

Test Report No.50175102 001

Appendix D: Radiated Spurious Emission Data

(File: 50175102 Appendix D)

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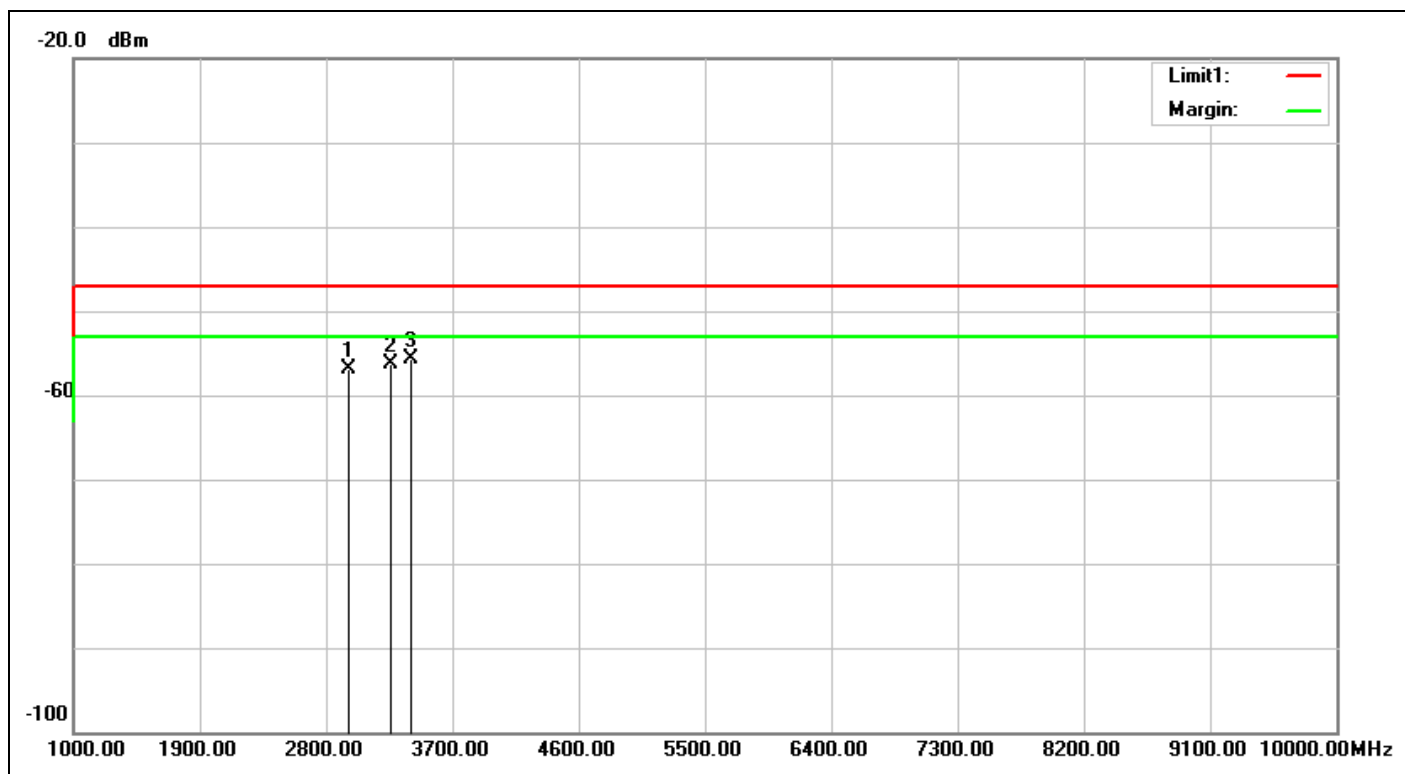
Spurious Emissions, Receiving Mode, 1-10G



TUV Rheinland Taiwan Ltd.

11F., No.758, Sec.4 Bade Road, Songshan Dist, Taipei City 105

Tel: +886-2172-7000 fax: +886-2528-0018



Service No.:	114077828	Test Distance:	1.2m
Test Standard:	EN 300 220_RX	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/8/16 09:42:46
Applicant:	Microchip Technology Inc.	Test Rating:	DC 5V
Product:	SAM R34 Xplained Pro Evaluation Kit	Temp.(°C)/Hum.(%)	22.8(°C)/53%
Model No.:	A09-3167	Test Engineer:	Curry Chen
Test Mode:	868.1-RX		
Remark:	Power:13 sf:12 BW:125k		

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	2962.000	-1.61	-55.36	-56.97	-47.00	-9.97	peak	100	162	
2	3259.000	-0.61	-55.67	-56.28	-47.00	-9.28	peak	100	66	
3	3403.000	-0.16	-55.62	-55.78	-47.00	-8.78	peak	100	343	

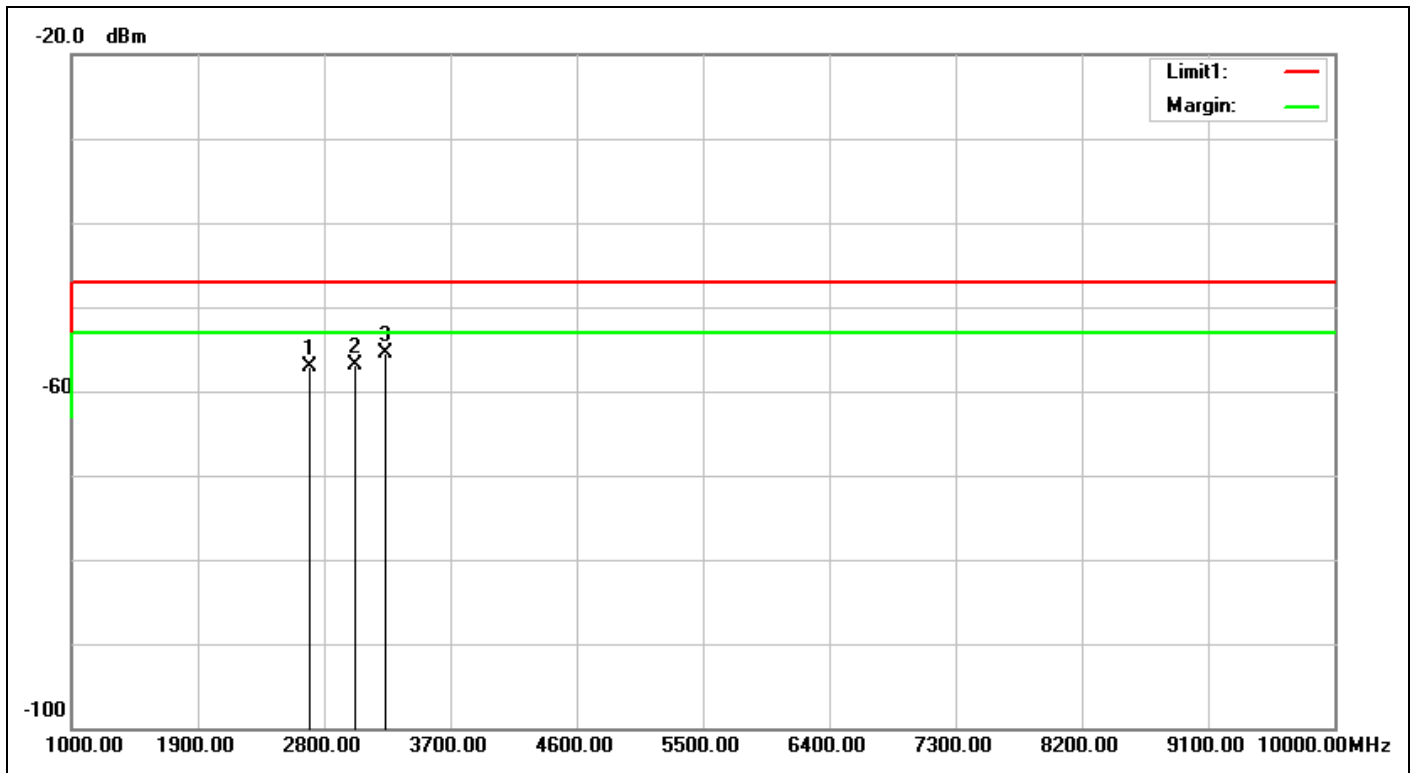
Spurious Emissions, Receiving Mode, 1-10G



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Service No.:	114077828	Test Distance:	1.2m
Test Standard:	EN 300 220_RX	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/8/16 09:43:38
Applicant:	Microchip Technology Inc.	Test Rating:	DC 5V
Product:	SAM R34 Xplained Pro Evaluation Kit	Temp.(°C)/Hum.(%):	22.8(°C)/53%
Model No.:	A09-3167	Test Engineer:	Curry Chen
Test Mode:	868.1-RX		
Remark:	Power:13 sf:12 BW:125k		

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	2701.000	-2.39	-54.68	-57.07	-47.00	-10.07	peak	100	332	
2	3025.000	-1.07	-55.84	-56.91	-47.00	-9.91	peak	100	134	
3	3241.000	-0.08	-55.42	-55.50	-47.00	-8.50	peak	100	243	

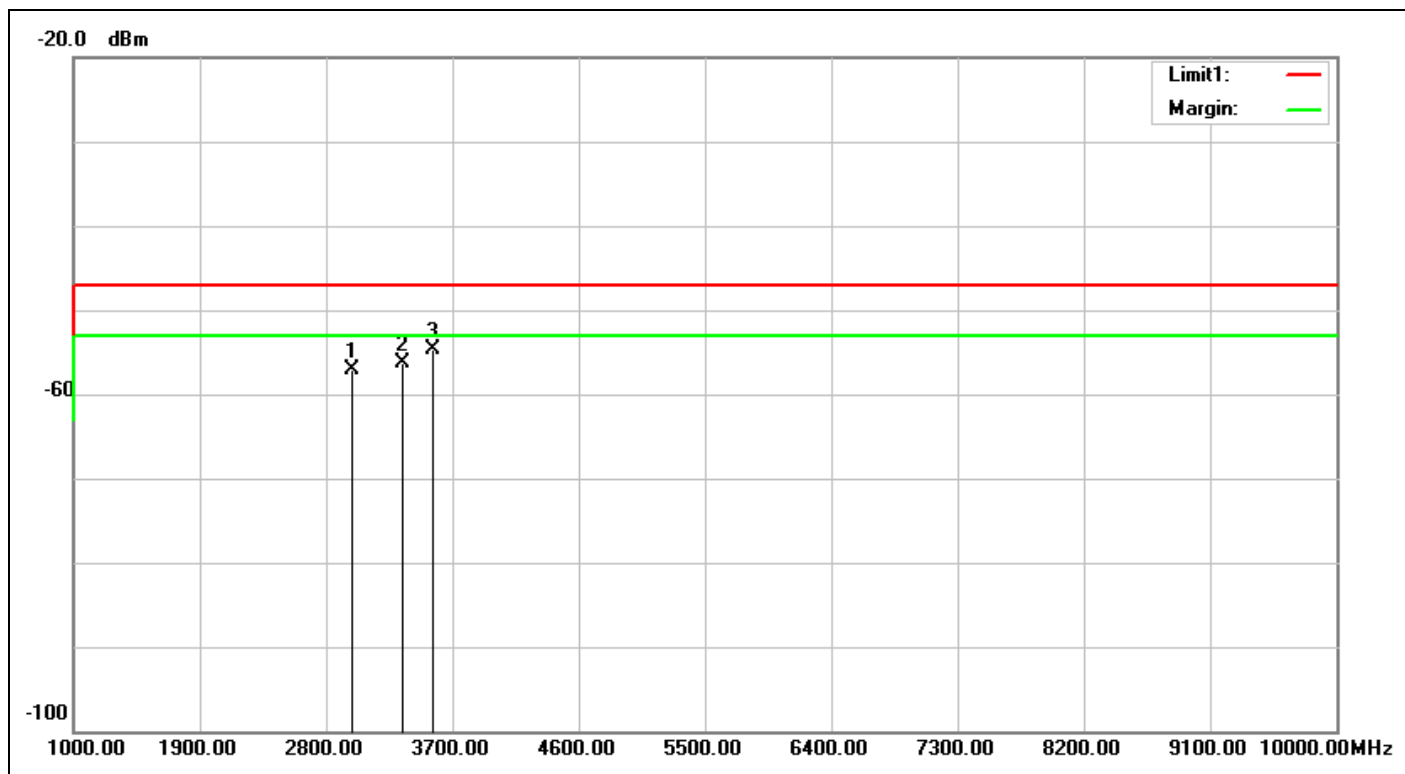
Spurious Emissions, Receiving Mode, 1-10G



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Service No.:	114077828	Test Distance:	1.2m
Test Standard:	EN 300 220_RX	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/8/16 09:45:12
Applicant:	Microchip Technology Inc.	Test Rating:	DC 5V
Product:	SAM R34 Xplained Pro Evaluation Kit	Temp.(°C)/Hum.(%)	22.8(°C)/53%
Model No.:	A09-3167	Test Engineer:	Curry Chen
Test Mode:	868.5-RX		
Remark:	Power:13 sf:12 BW:125k		

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	2980.000	-1.53	-55.58	-57.11	-47.00	-10.11	peak	100	329	
2	3349.000	-0.33	-55.90	-56.23	-47.00	-9.23	peak	100	104	
3	3556.000	0.34	-54.97	-54.63	-47.00	-7.63	peak	100	309	

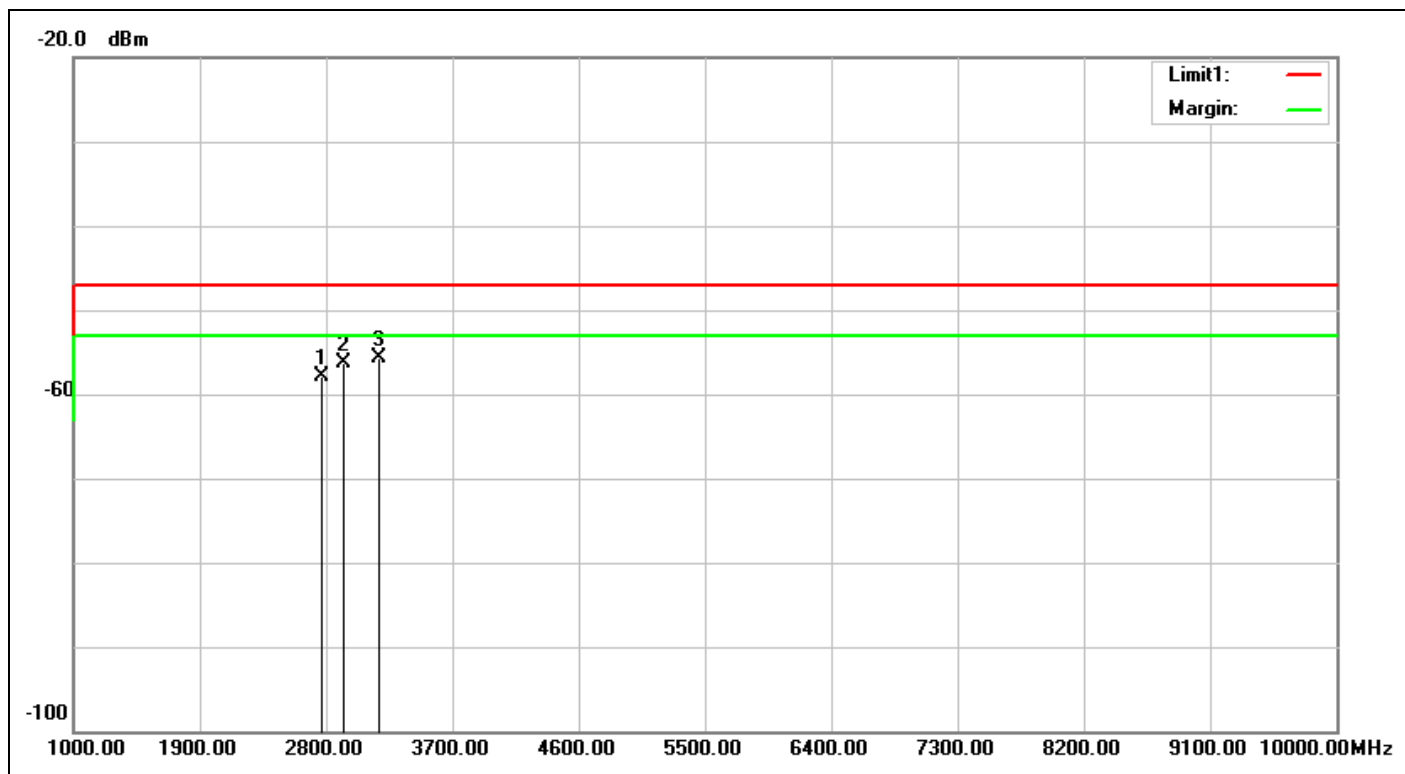
Spurious Emissions, Receiving Mode, 1-10G



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Service No.:	114077828	Test Distance:	1.2m
Test Standard:	EN 300 220_RX	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/8/16 09:46:05
Applicant:	Microchip Technology Inc.	Test Rating:	DC 5V
Product:	SAM R34 Xplained Pro Evaluation Kit	Temp.(°C)/Hum.(%):	22.8(°C)/53%
Model No.:	A09-3167	Test Engineer:	Curry Chen
Test Mode:	868.5-RX		
Remark:	Power:13 sf:12 BW:125k		

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	2773.000	-2.10	-55.73	-57.83	-47.00	-10.83	peak	100	54	
2	2926.000	-1.48	-54.86	-56.34	-47.00	-9.34	peak	100	345	
3	3178.000	-0.37	-55.28	-55.65	-47.00	-8.65	peak	100	150	

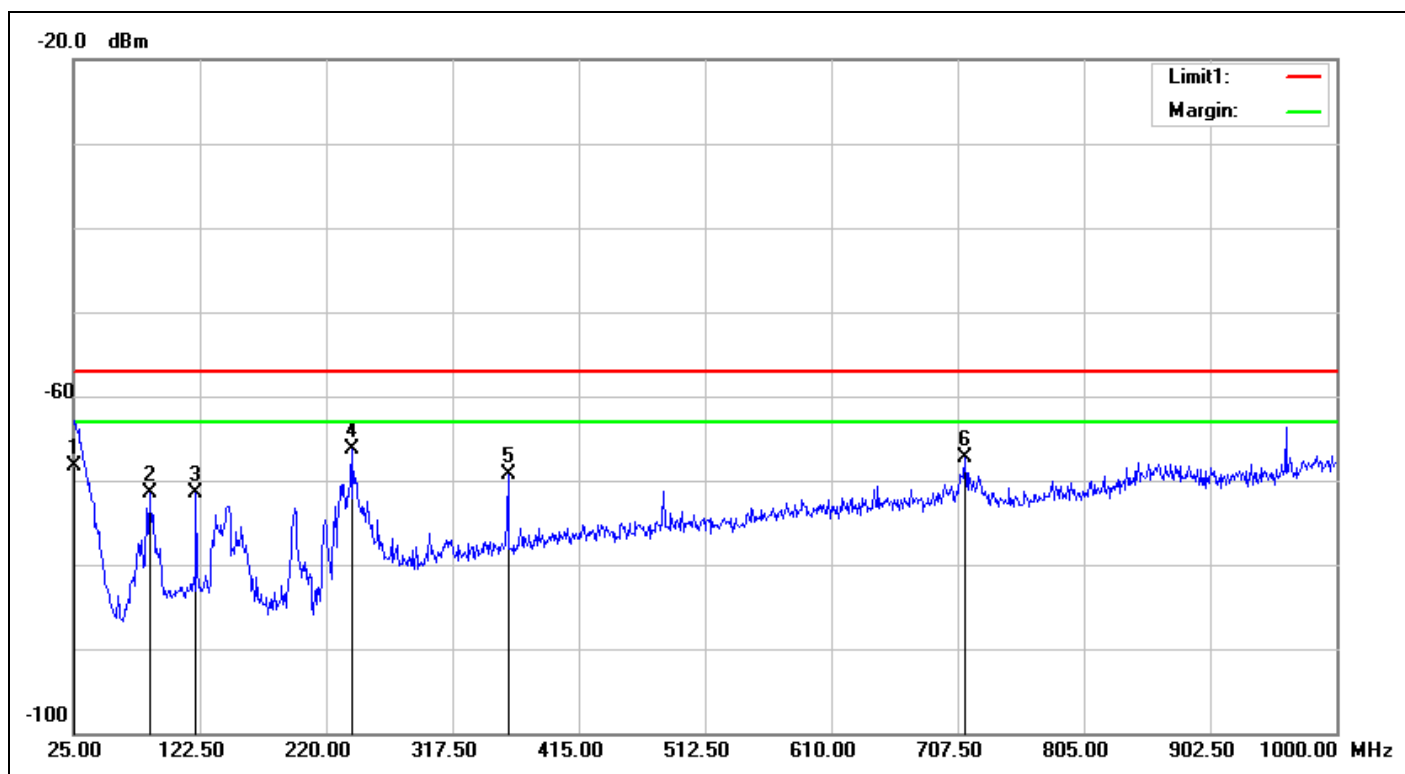
Spurious Emissions, Receiving Mode, 25M-1G



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11F., No.758, Sec.4 Bade Road, Songshan Dist, Taipei City 105

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Service No.:	114077828	Test Distance:	3m
Test Standard:	EN 300 220_RX	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/8/16 10:07:26
Applicant:	Microchip Technology Inc.	Test Rating:	DC 5V
Product:	SAM R34 Xplained Pro Evaluation Kit	Temp.(°C)/Hum.(%):	22.8(°C)/53%
Model No.:	A09-3167	Test Engineer:	Curry Chen
Test Mode:	868.1-RX		
Remark:	Power:13 sf:12 BW:125k		

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	25.9750	18.03	-86.38	-68.35	-57.00	-11.35	peak	100	121	RMS
2	83.5000	-4.45	-67.00	-71.45	-57.00	-14.45	peak	100	301	
3	119.5750	-1.87	-69.55	-71.42	-57.00	-14.42	peak	100	222	
4	239.5000	0.15	-66.40	-66.25	-57.00	-9.25	peak	100	111	
5	360.3999	2.95	-72.34	-69.39	-57.00	-12.39	peak	100	315	
6	713.3500	8.04	-75.38	-67.34	-57.00	-10.34	peak	100	216	

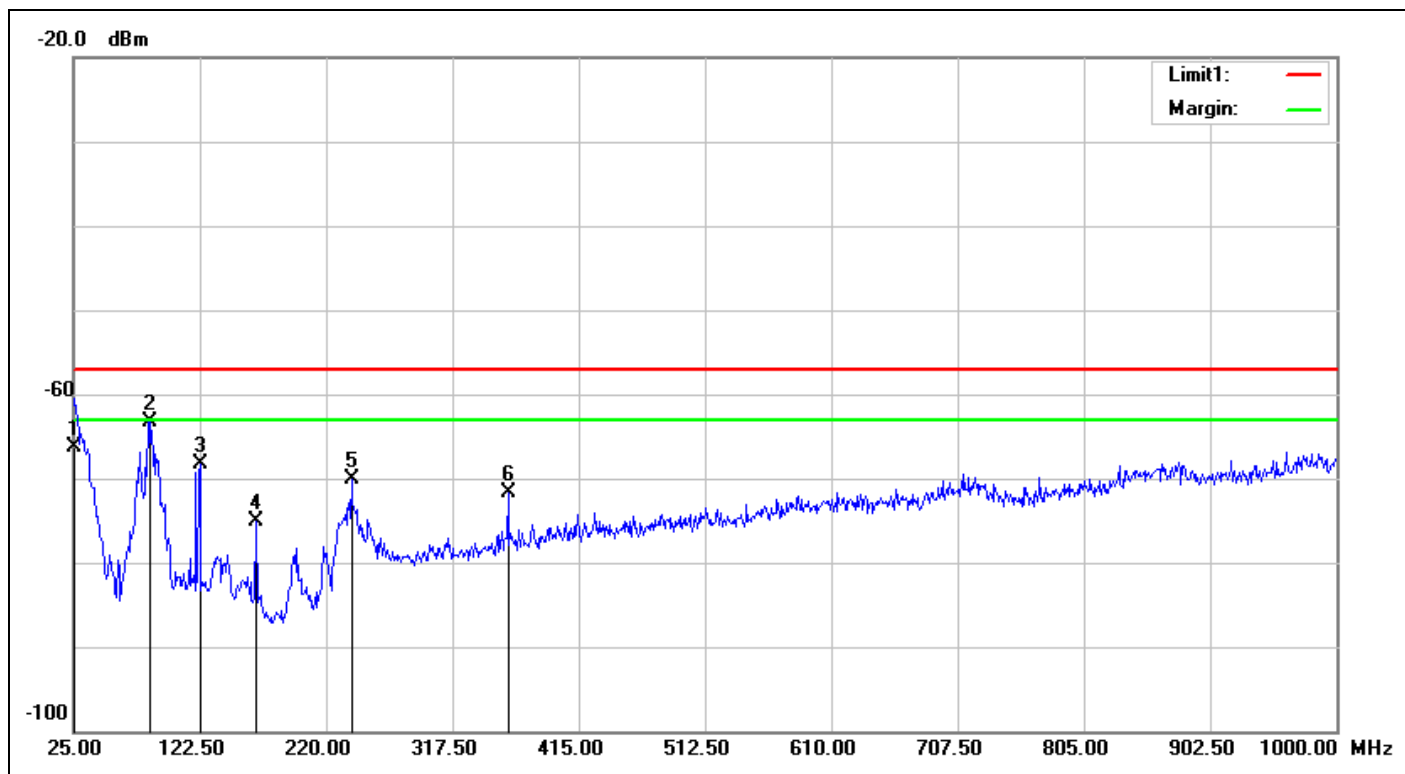
Spurious Emissions, Receiving Mode, 25M-1G



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Service No.:	114077828	Test Distance:	3m
Test Standard:	EN 300 220_RX	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/8/16 10:08:19
Applicant:	Microchip Technology Inc.	Test Rating:	DC 5V
Product:	SAM R34 Xplained Pro Evaluation Kit	Temp.(°C)/Hum.(%)	22.8(°C)/53%
Model No.:	A09-3167	Test Engineer:	Curry Chen
Test Mode:	868.1-RX		
Remark:	Power:13 sf:12 BW:125k		

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	25.0000	18.70	-85.08	-66.38	-57.00	-9.38	peak	100	118	RMS
2	83.5000	-4.45	-58.75	-63.20	-57.00	-6.20	peak	100	101	
3	122.5000	-1.93	-66.43	-68.36	-57.00	-11.36	peak	100	161	
4	166.3750	-4.20	-70.99	-75.19	-57.00	-18.19	peak	100	125	
5	239.5000	0.15	-70.29	-70.14	-57.00	-13.14	peak	100	342	
6	360.3999	2.95	-74.62	-71.67	-57.00	-14.67	peak	100	177	

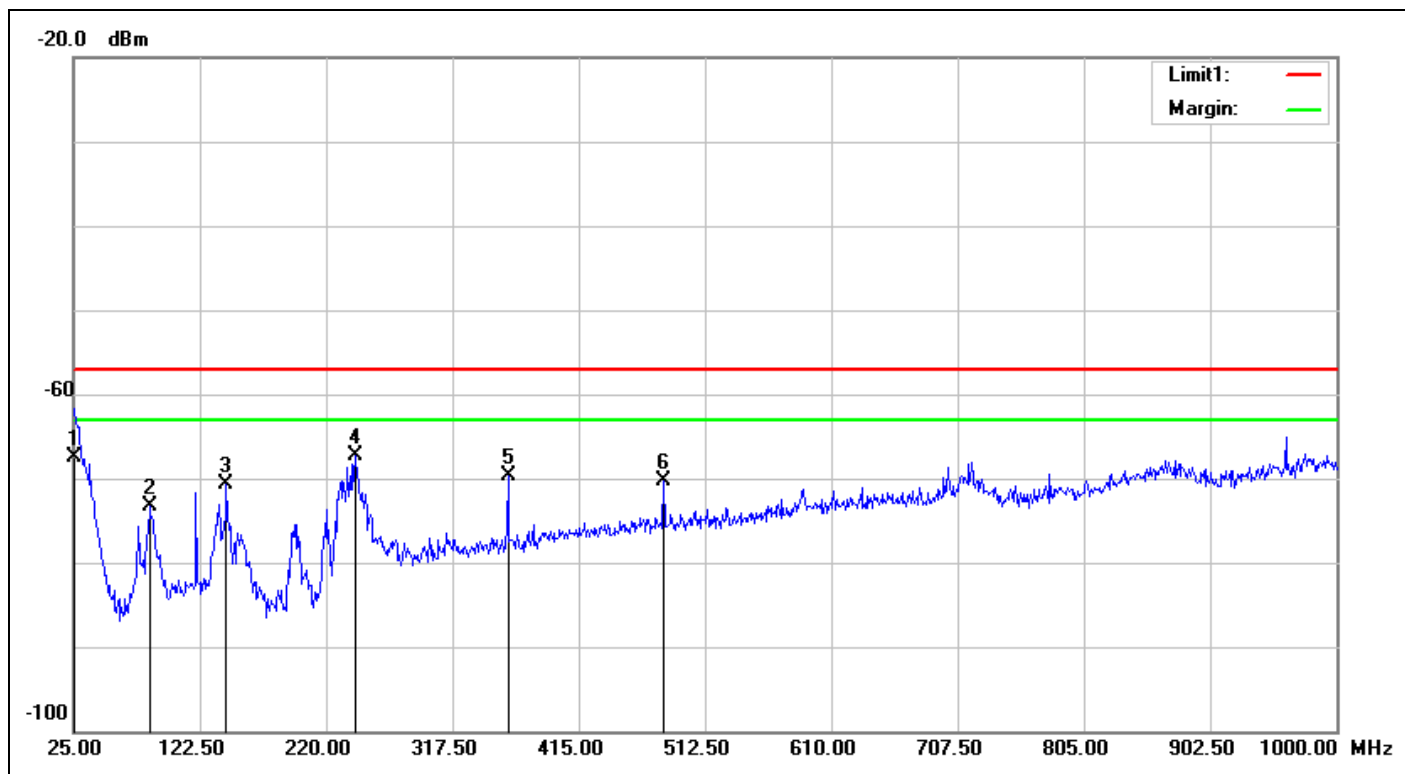
Spurious Emissions, Receiving Mode, 25M-1G



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Service No.:	114077828	Test Distance:	3m
Test Standard:	EN 300 220_RX	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/8/16 10:09:59
Applicant:	Microchip Technology Inc.	Test Rating:	DC 5V
Product:	SAM R34 Xplained Pro Evaluation Kit	Temp.(°C)/Hum.(%):	22.8(°C)/53%
Model No.:	A09-3167	Test Engineer:	Curry Chen
Test Mode:	868.5-RX		
Remark:	Power:13 sf:12 BW:125k		

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	25.9750	18.03	-85.58	-67.55	-57.00	-10.55	peak	100	153	RMS
2	83.5000	-4.45	-68.75	-73.20	-57.00	-16.20	peak	100	298	
3	142.9749	-2.99	-67.66	-70.65	-57.00	-13.65	peak	100	189	
4	242.4250	0.49	-67.84	-67.35	-57.00	-10.35	peak	100	104	
5	360.3999	2.95	-72.56	-69.61	-57.00	-12.61	peak	100	318	
6	480.3249	4.92	-75.21	-70.29	-57.00	-13.29	peak	100	193	

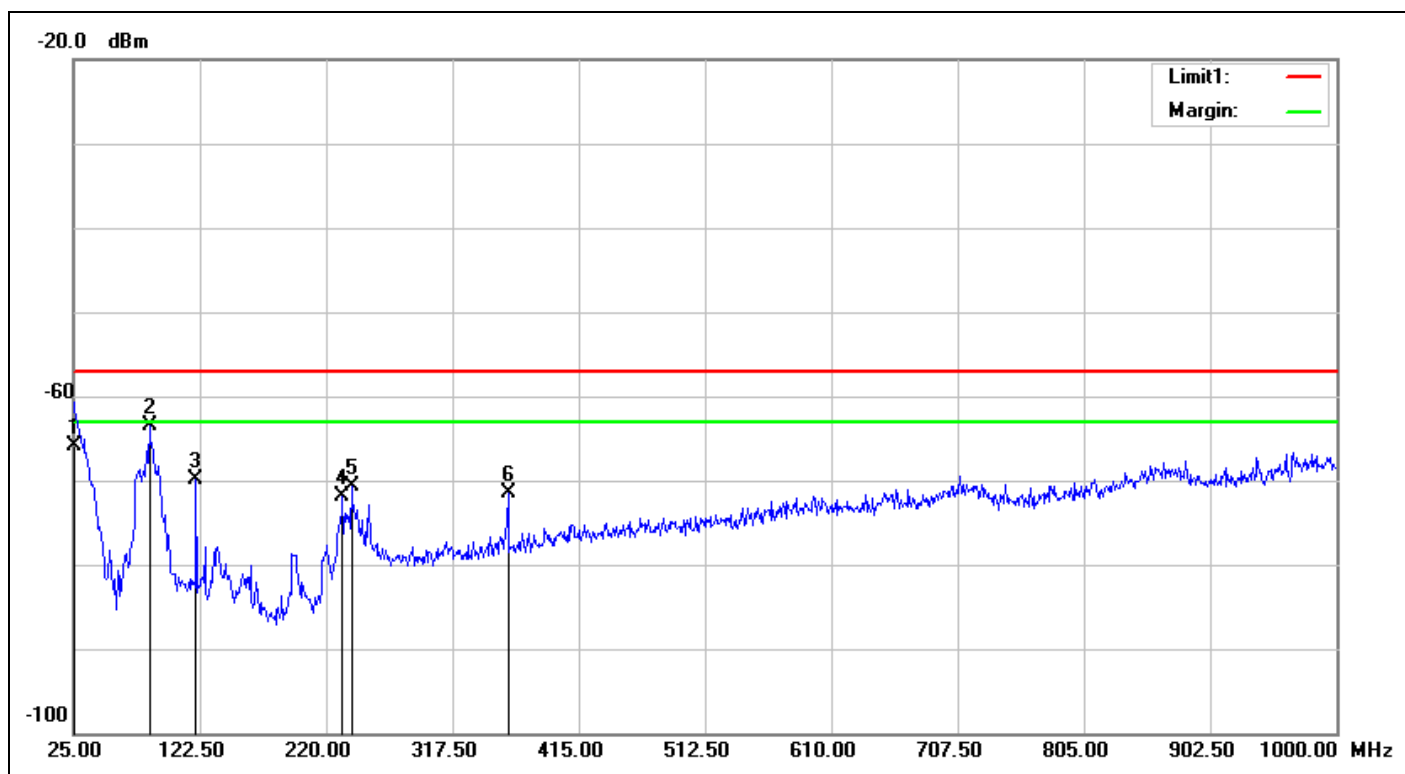
Spurious Emissions, Receiving Mode, 25M-1G



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Service No.:	114077828	Test Distance:	3m
Test Standard:	EN 300 220_RX	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/8/16 10:10:52
Applicant:	Microchip Technology Inc.	Test Rating:	DC 5V
Product:	SAM R34 Xplained Pro Evaluation Kit	Temp.(°C)/Hum.(%)	22.8(°C)/53%
Model No.:	A09-3167	Test Engineer:	Curry Chen
Test Mode:	868.5-RX		
Remark:	Power:13 sf:12 BW:125k		

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	25.0000	18.70	-84.58	-65.88	-57.00	-8.88	peak	100	358	RMS
2	83.5000	-4.45	-59.14	-63.59	-57.00	-6.59	peak	100	157	
3	119.5750	-1.87	-68.01	-69.88	-57.00	-12.88	peak	100	266	
4	232.6750	-0.93	-71.01	-71.94	-57.00	-14.94	peak	100	256	
5	239.5000	0.15	-70.91	-70.76	-57.00	-13.76	peak	100	256	
6	360.3999	2.95	-74.54	-71.59	-57.00	-14.59	peak	100	137	

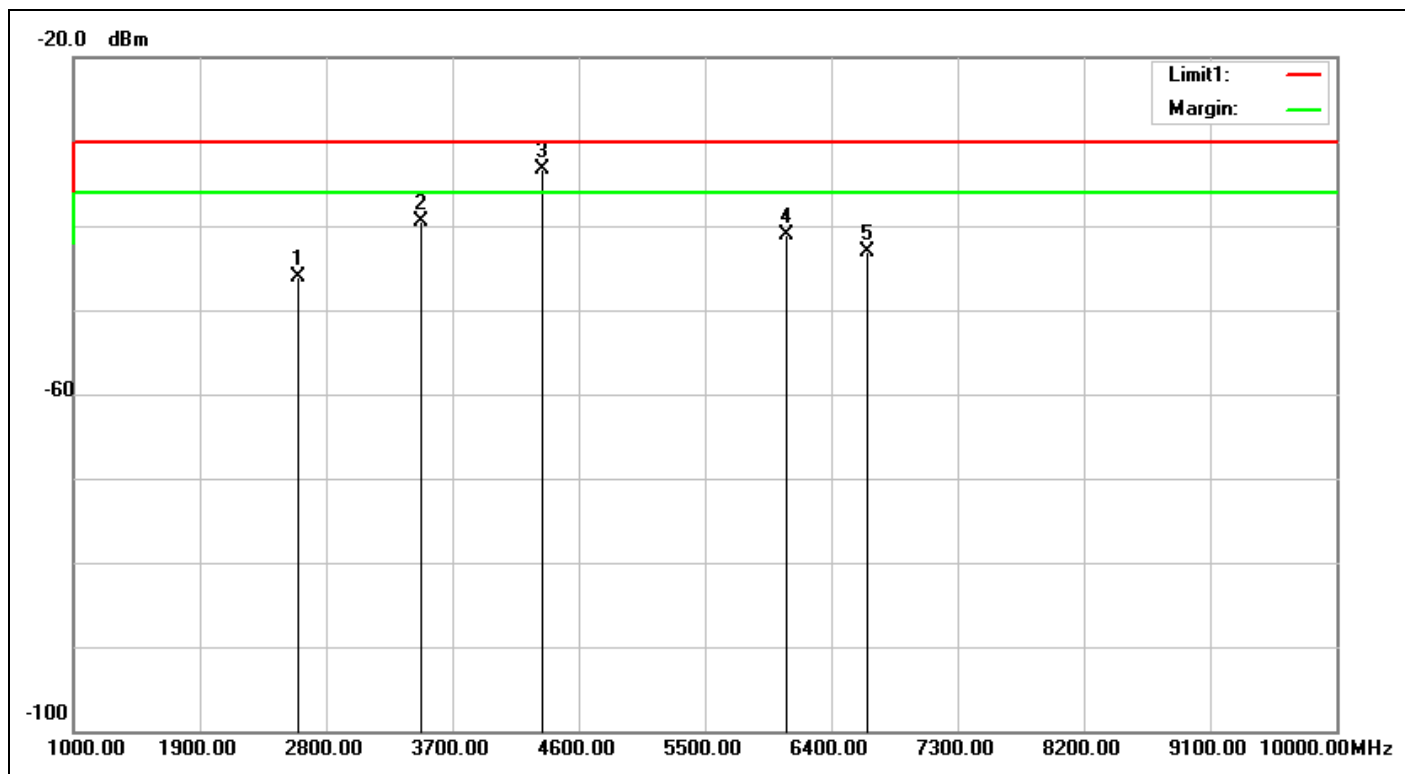
Spurious Emissions, TX Mode, 1-10G



TUV Rheinland Taiwan Ltd.

11F., No.758, Sec.4 Bade Road, Songshan Dist, Taipei City 105

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Service No.:	114077828	Test Distance:	3m
Test Standard:	EN 300 220_Operating	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/8/16 09:28:41
Applicant:	Microchip Technology Inc.	Test Rating:	DC 5V
Product:	SAM R34 Xplained Pro Evaluation Kit	Temp.(°C)/Hum.(%)	22.8(°C)/53%
Model No.:	A09-3167	Test Engineer:	Curry Chen
Test Mode:	868.1-TX		
Remark:	Power:13 sf:12 BW:125k		

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	2604.300	1.64	-47.73	-46.09	-30.00	-16.09	peak	100	291	
2	3472.400	3.90	-43.44	-39.54	-30.00	-9.54	peak	100	304	
3	4340.500	8.53	-41.77	-33.24	-30.00	-3.24	peak	100	243	RMS
4	6076.700	15.82	-56.93	-41.11	-30.00	-11.11	peak	100	219	
5	6652.000	18.04	-61.10	-43.06	-30.00	-13.06	peak	100	6	

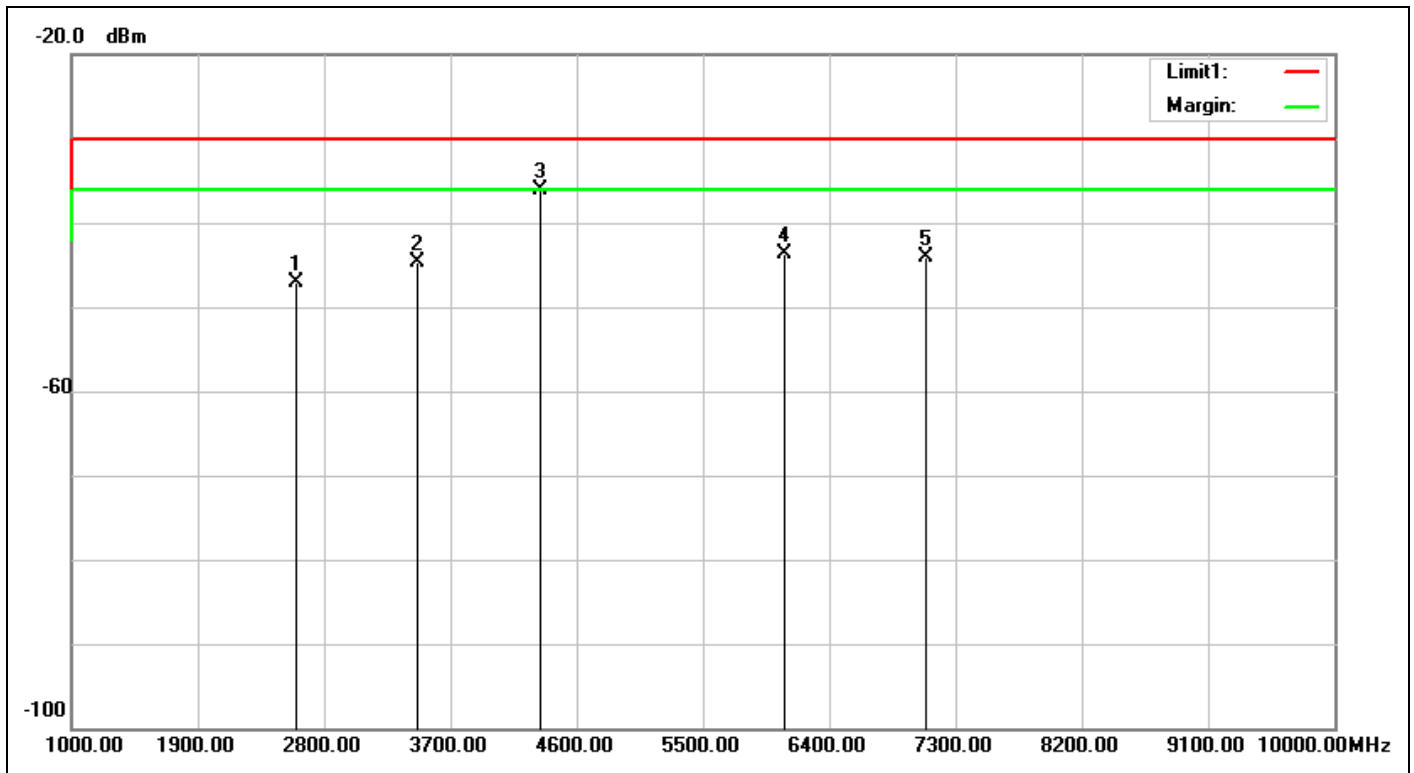
Spurious Emissions, TX Mode, 1-10G



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Tel: +886-2172-7000 fax: +886-2528-0018



Service No.:	114077828	Test Distance:	3m
Test Standard:	EN 300 220_Operating	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/8/16 09:29:33
Applicant:	Microchip Technology Inc.	Test Rating:	DC 5V
Product:	SAM R34 Xplained Pro Evaluation Kit	Temp.(°C)/Hum.(%)	22.8(°C)/53%
Model No.:	A09-3167	Test Engineer:	Curry Chen
Test Mode:	868.1-TX		
Remark:	Power:13 sf:12 BW:125k		

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	2604.300	2.83	-49.84	-47.01	-30.00	-17.01	peak	100	330	
2	3472.400	4.79	-49.53	-44.74	-30.00	-14.74	peak	100	254	
3	4340.500	8.72	-44.75	-36.03	-30.00	-6.03	peak	100	199	
4	6076.700	15.69	-59.42	-43.73	-30.00	-13.73	peak	100	282	
5	7084.000	16.81	-60.86	-44.05	-30.00	-14.05	peak	100	271	

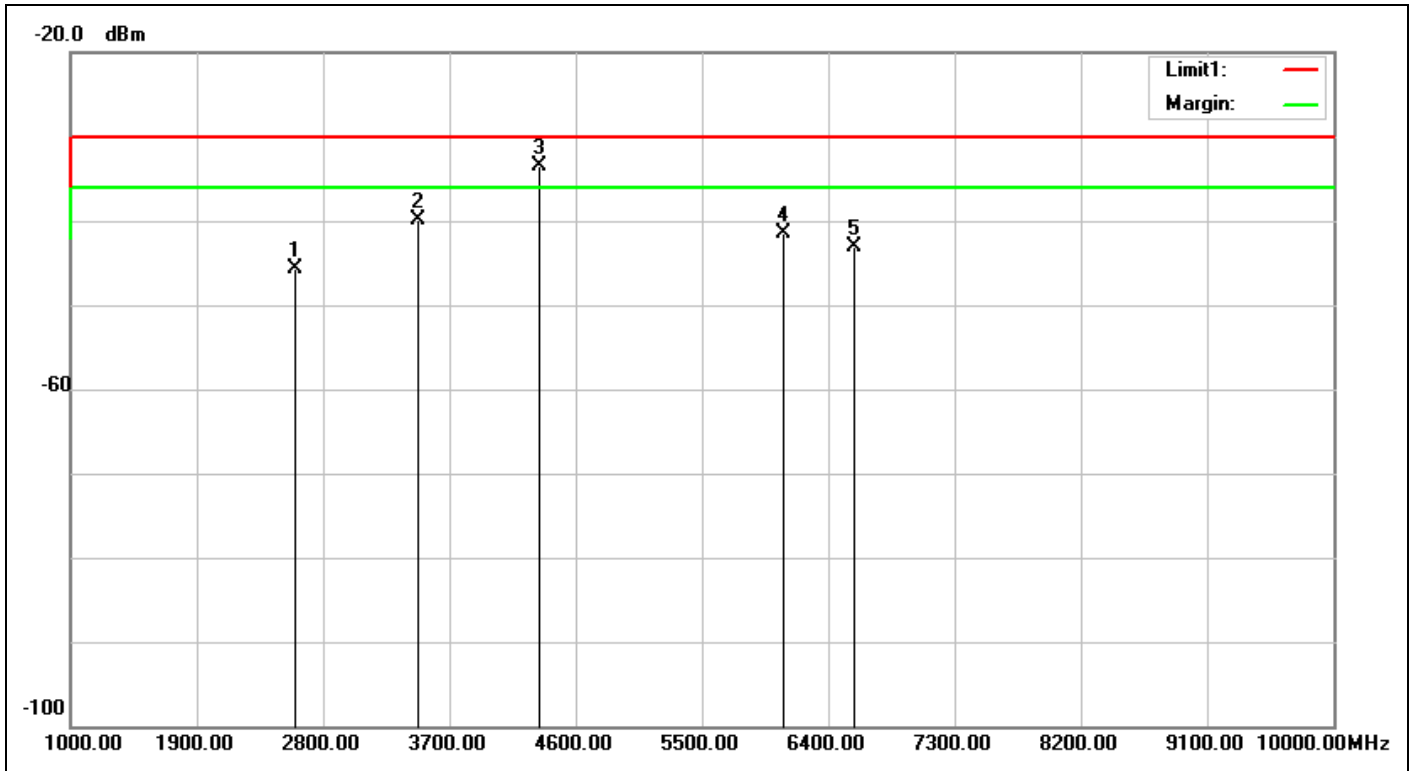
Spurious Emissions, TX Mode, 1-10G



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Tel: +886-2172-7000 fax: +886-2528-0018



Service No.:	114077828	Test Distance:	3m
Test Standard:	EN 300 220_Operating	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/8/16 09:35:16
Applicant:	Microchip Technology Inc.	Test Rating:	DC 5V
Product:	SAM R34 Xplained Pro Evaluation Kit	Temp.(°C)/Hum.(%)	22.8(°C)/53%
Model No.:	A09-3167	Test Engineer:	Curry Chen
Test Mode:	868.5-TX		
Remark:	Power:13 sf:12 BW:125k		

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	2605.500	1.65	-47.37	-45.72	-30.00	-15.72	peak	100	289	
2	3474.000	3.90	-43.74	-39.84	-30.00	-9.84	peak	100	302	
3	4342.500	8.54	-42.00	-33.46	-30.00	-3.46	peak	100	247	RMS
4	6079.500	15.84	-57.42	-41.58	-30.00	-11.58	peak	100	38	
5	6580.000	18.36	-61.55	-43.19	-30.00	-13.19	peak	100	359	

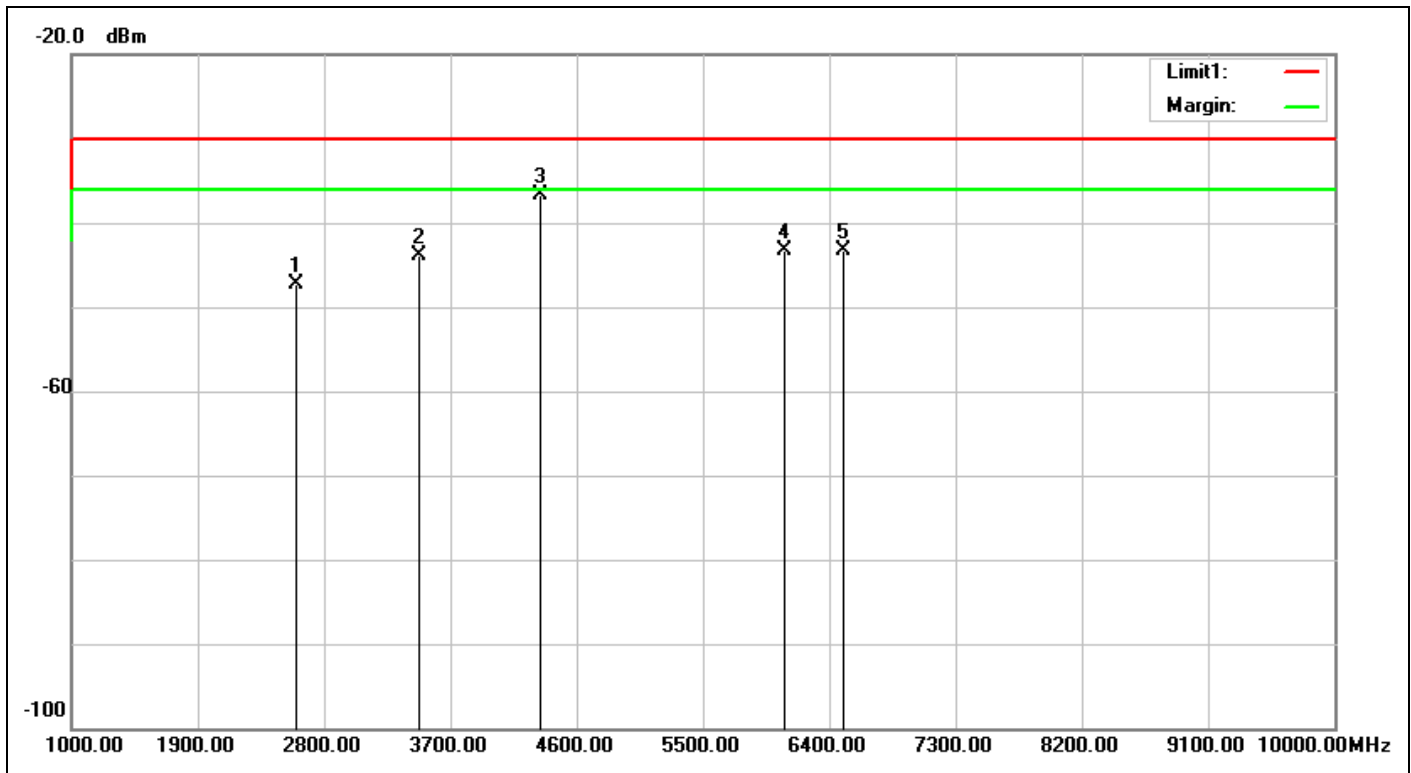
Spurious Emissions, TX Mode, 1-10G



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Tel: +886-2172-7000 fax: +886-2528-0018



Service No.:	114077828	Test Distance:	3m
Test Standard:	EN 300 220_Operating	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/8/16 09:36:08
Applicant:	Microchip Technology Inc.	Test Rating:	DC 5V
Product:	SAM R34 Xplained Pro Evaluation Kit	Temp.(°C)/Hum.(%):	22.8(°C)/53%
Model No.:	A09-3167	Test Engineer:	Curry Chen
Test Mode:	868.5-TX		
Remark:	Power:13 sf:12 BW:125k		

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	2605.500	2.83	-50.15	-47.32	-30.00	-17.32	peak	100	1	
2	3474.000	4.80	-48.68	-43.88	-30.00	-13.88	peak	100	257	
3	4342.500	8.74	-45.50	-36.76	-30.00	-6.76	peak	100	202	
4	6079.500	15.71	-59.07	-43.36	-30.00	-13.36	peak	100	30	
5	6499.000	18.94	-62.30	-43.36	-30.00	-13.36	peak	100	168	

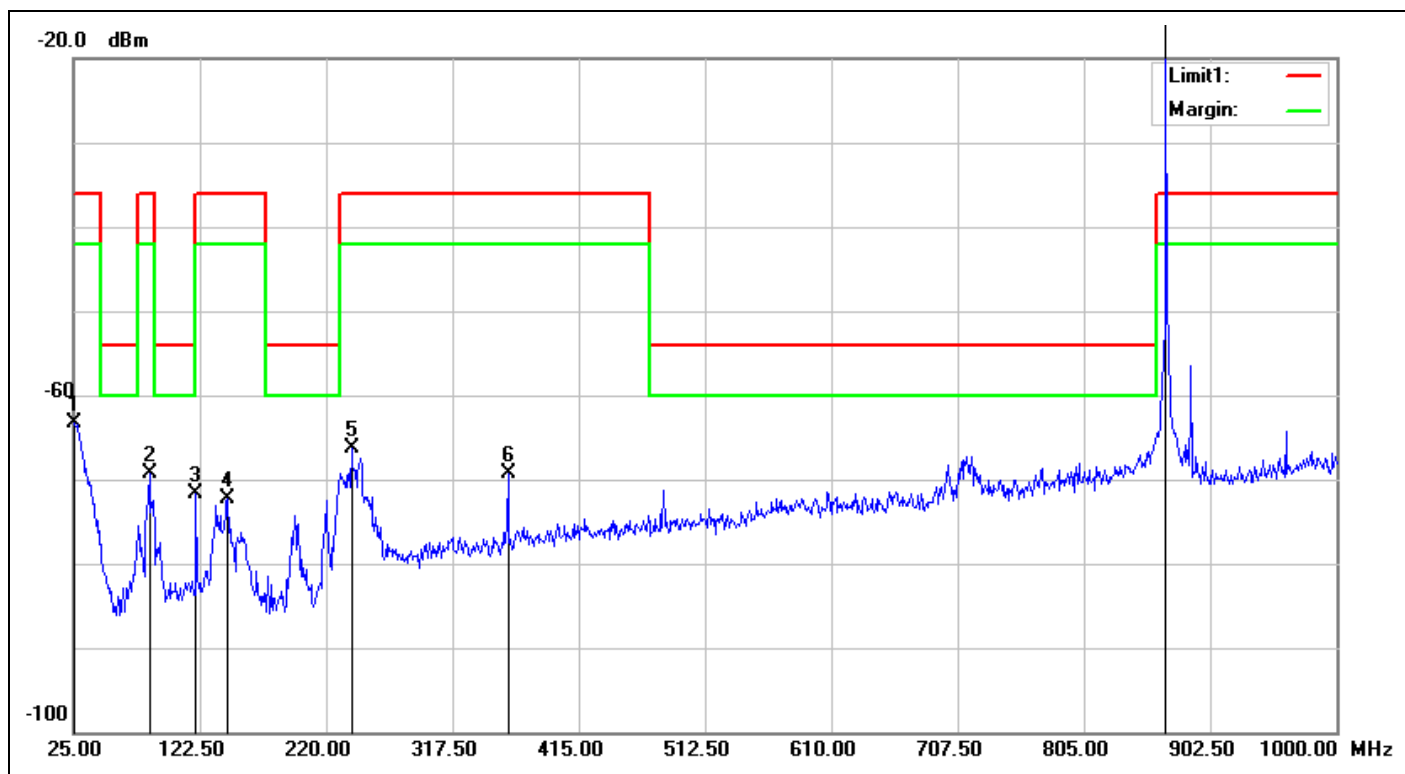
Spurious Emissions, TX Mode, 25M-1G



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Service No.:	114077828	Test Distance:	3m
Test Standard:	EN 300 220_Operating	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/8/16 10:00:23
Applicant:	Microchip Technology Inc.	Test Rating:	DC 5V
Product:	SAM R34 Xplained Pro Evaluation Kit	Temp.(°C)/Hum.(%):	22.8(°C)/53%
Model No.:	A09-3167	Test Engineer:	Curry Chen
Test Mode:	868.1-TX		
Remark:	Power:13 sf:12 BW:125k		

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	25.9750	18.03	-81.29	-63.26	-36.00	-27.26	peak	100	197	
2	83.5000	-4.45	-64.86	-69.31	-36.00	-33.31	peak	100	325	
3	119.5750	-1.87	-69.83	-71.70	-36.00	-35.70	peak	100	204	
4	143.9499	-3.00	-69.27	-72.27	-36.00	-36.27	peak	100	9	
5	239.5000	0.15	-66.54	-66.39	-36.00	-30.39	peak	100	187	
6	360.3999	2.95	-72.29	-69.34	-36.00	-33.34	peak	100	187	
7	868.3750	10.92	1.14	12.06	-36.00	48.06	peak	100	256	TX

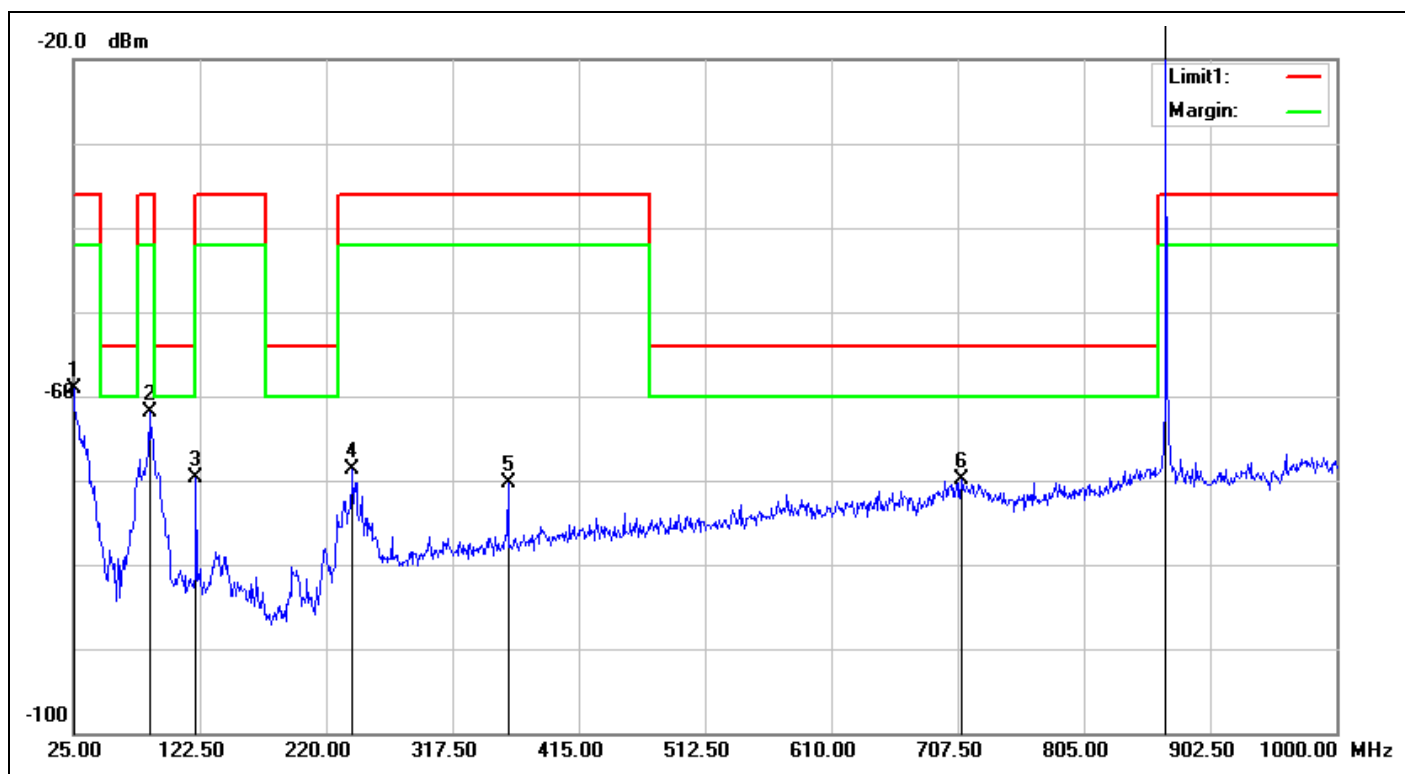
Spurious Emissions, TX Mode, 25M-1G



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Service No.:	114077828	Test Distance:	3m
Test Standard:	EN 300 220_Operating	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/8/16 10:01:16
Applicant:	Microchip Technology Inc.	Test Rating:	DC 5V
Product:	SAM R34 Xplained Pro Evaluation Kit	Temp.(°C)/Hum.(%)	22.8(°C)/53%
Model No.:	A09-3167	Test Engineer:	Curry Chen
Test Mode:	868.1-TX		
Remark:	Power:13 sf:12 BW:125k		

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	25.0000	18.70	-77.75	-59.05	-36.00	-23.05	peak	100	360	
2	83.5000	-4.45	-57.36	-61.81	-36.00	-25.81	peak	100	110	
3	119.5750	-1.87	-67.90	-69.77	-36.00	-33.77	peak	100	281	
4	240.4750	0.28	-69.02	-68.74	-36.00	-32.74	peak	100	205	
5	360.4000	2.95	-73.28	-70.33	-36.00	-34.33	peak	100	311	
6	710.4250	8.01	-77.98	-69.97	-54.00	-15.97	peak	100	359	
7	868.3750	10.92	-9.69	1.23	-36.00	37.23	peak	100	232	TX

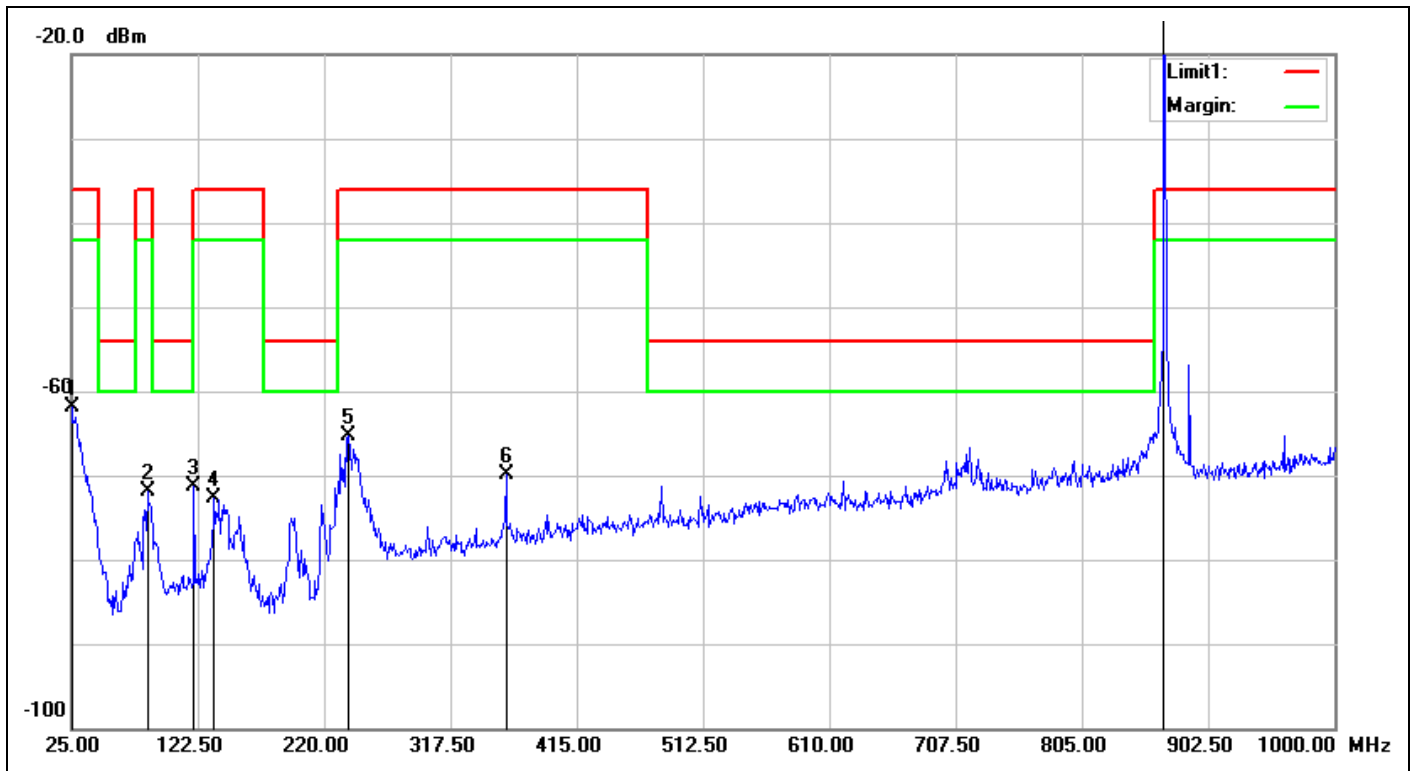
Spurious Emissions, TX Mode, 25M-1G



TUV Rheinland Taiwan Ltd.

11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel: +886-2172-7000 fax: +886-2528-0018



Service No.:	114077828	Test Distance:	3m
Test Standard:	EN 300 220_Operating	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/8/16 10:03:15
Applicant:	Microchip Technology Inc.	Test Rating:	DC 5V
Product:	SAM R34 Xplained Pro Evaluation Kit	Temp.(°C)/Hum.(%)	22.8(°C)/53%
Model No.:	A09-3167	Test Engineer:	Curry Chen
Test Mode:	868.5-TX		
Remark:	Power:13 sf:12 BW:125k		

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	25.0000	18.70	-80.66	-61.96	-36.00	-25.96	peak	100	309	
2	83.5000	-4.45	-67.48	-71.93	-36.00	-35.93	peak	100	355	
3	119.5750	-1.87	-69.51	-71.38	-36.00	-35.38	peak	100	217	
4	135.1750	-2.57	-70.13	-72.70	-36.00	-36.70	peak	100	197	
5	238.5250	-0.01	-65.31	-65.32	-36.00	-29.32	peak	100	210	
6	360.3999	2.95	-72.76	-69.81	-36.00	-33.81	peak	100	316	
7	868.3750	10.92	1.13	12.05	-36.00	48.05	peak	100	253	TX

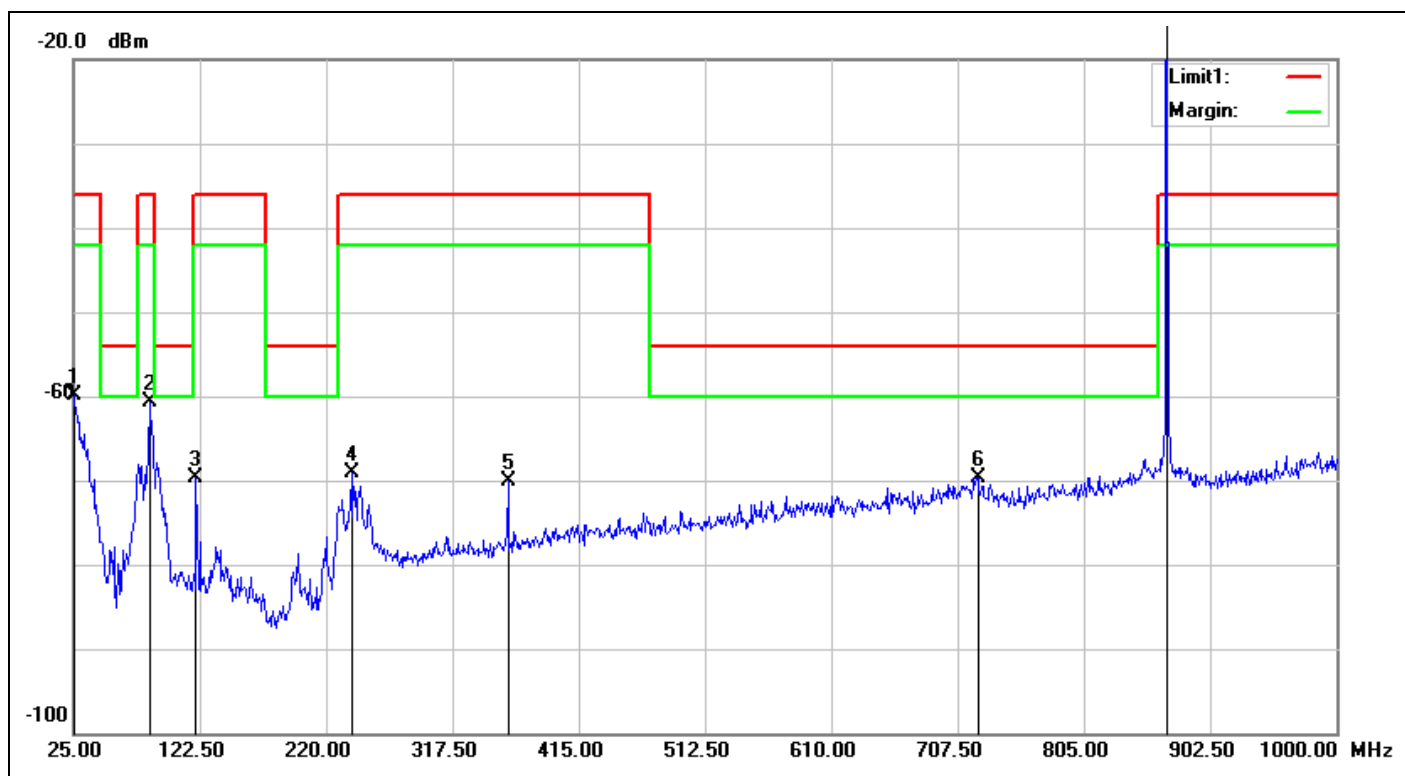
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Service No.:	114077828	Test Distance:	3m
Test Standard:	EN 300 220_Operating	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/8/16 10:04:08
Applicant:	Microchip Technology Inc.	Test Rating:	DC 5V
Product:	SAM R34 Xplained Pro Evaluation Kit	Temp.(°C)/Hum.(%)	22.8(°C)/53%
Model No.:	A09-3167	Test Engineer:	Curry Chen
Test Mode:	868.5-TX		
Remark:	Power:13 sf:12 BW:125k		

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	25.0000	18.70	-78.62	-59.92	-36.00	-23.92	peak	100	328	
2	83.5000	-4.45	-56.15	-60.60	-36.00	-24.60	peak	100	147	
3	119.5750	-1.87	-67.77	-69.64	-36.00	-33.64	peak	100	236	
4	239.5000	0.15	-69.21	-69.06	-36.00	-33.06	peak	100	268	
5	360.3999	2.95	-73.02	-70.07	-36.00	-34.07	peak	100	295	
6	723.1000	8.07	-77.76	-69.69	-54.00	-15.69	peak	100	348	
7	869.3500	10.91	-9.66	1.25	-36.00	37.25	peak	100	236	TX