

Test Report No.10043196 001

Appendix D: Radiated Spurious Emission Data

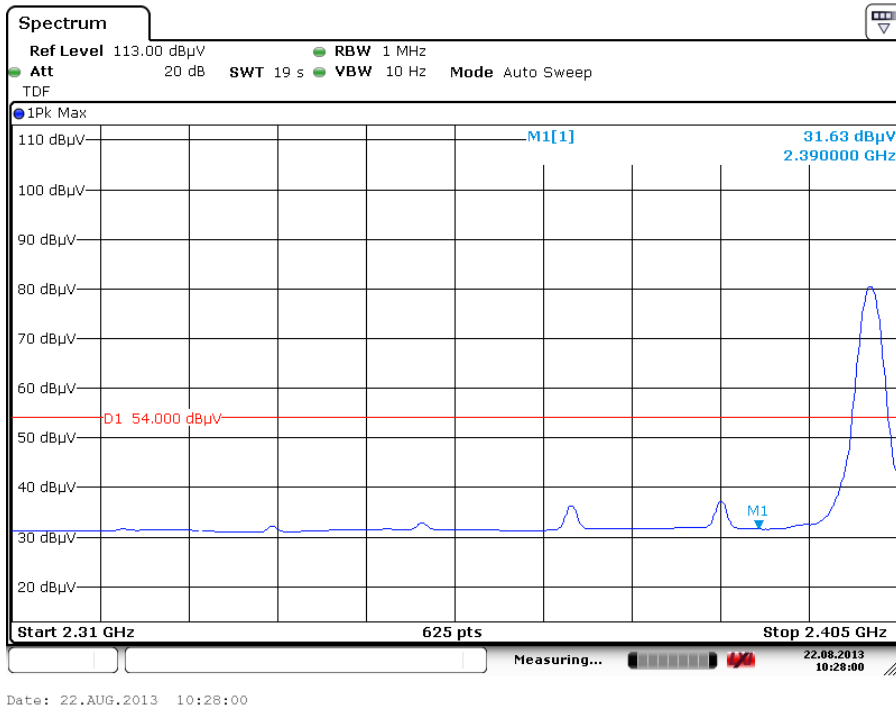
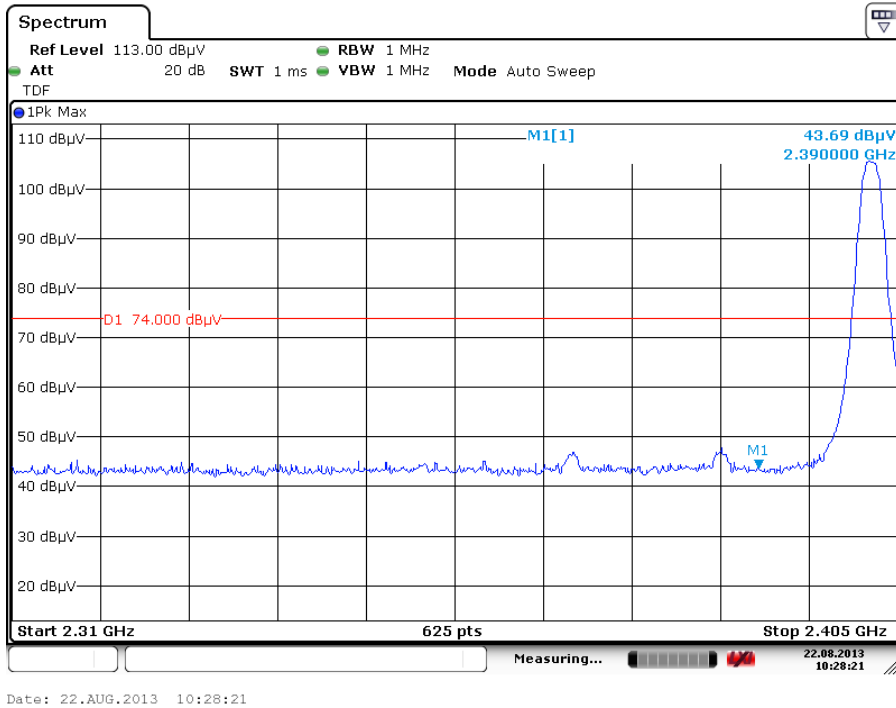
(File: 10043196AppendixD)

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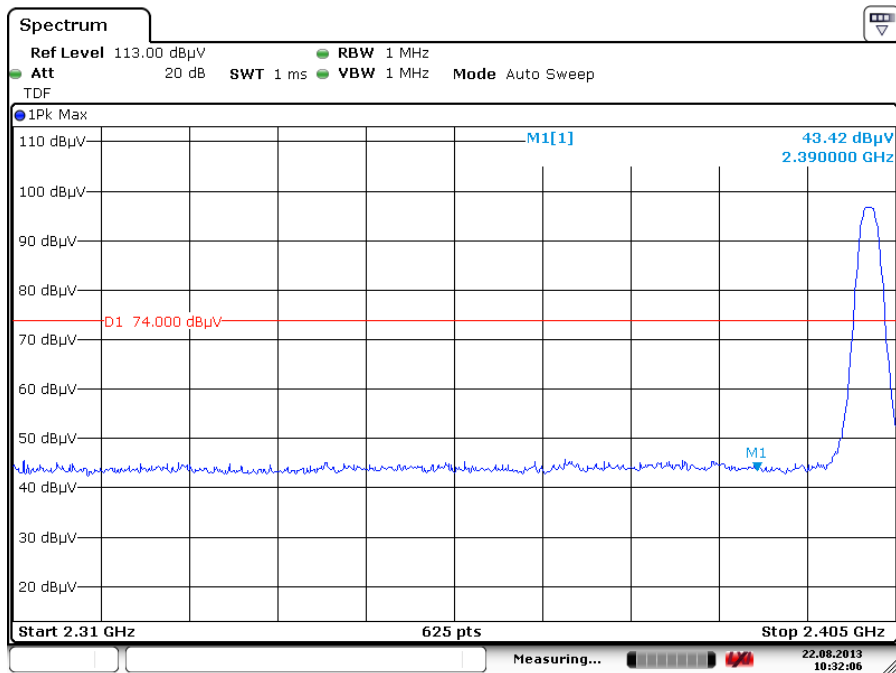
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Radiated Bandedge

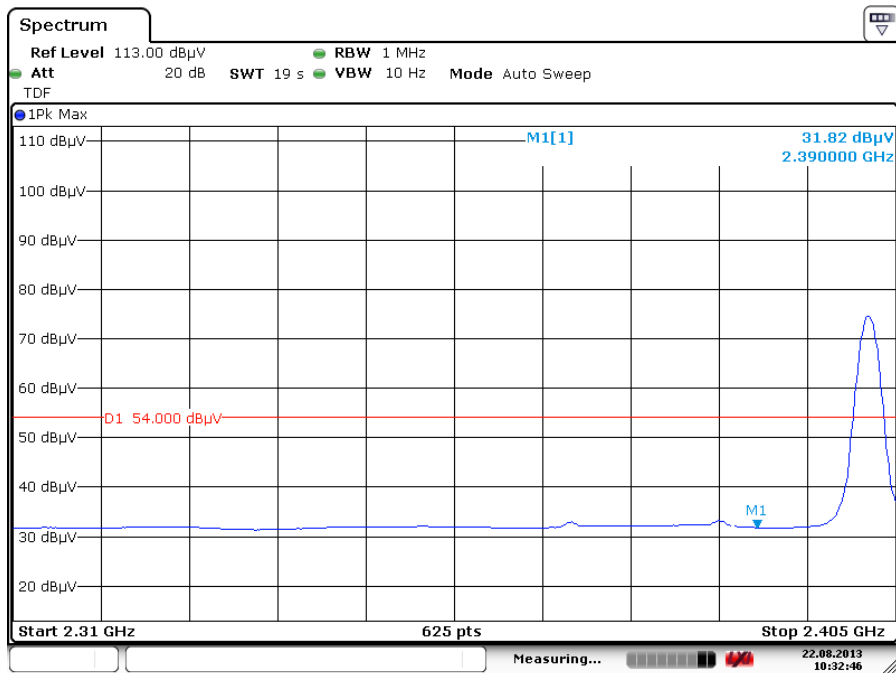
Low Channel (Hor)



Low Channel (Ver)



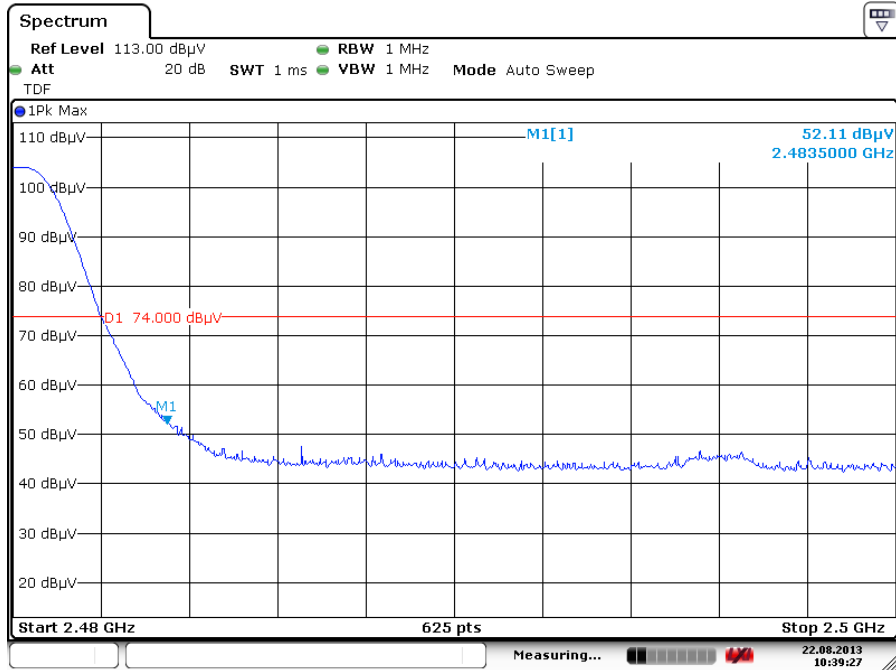
Date: 22.AUG.2013 10:32:05



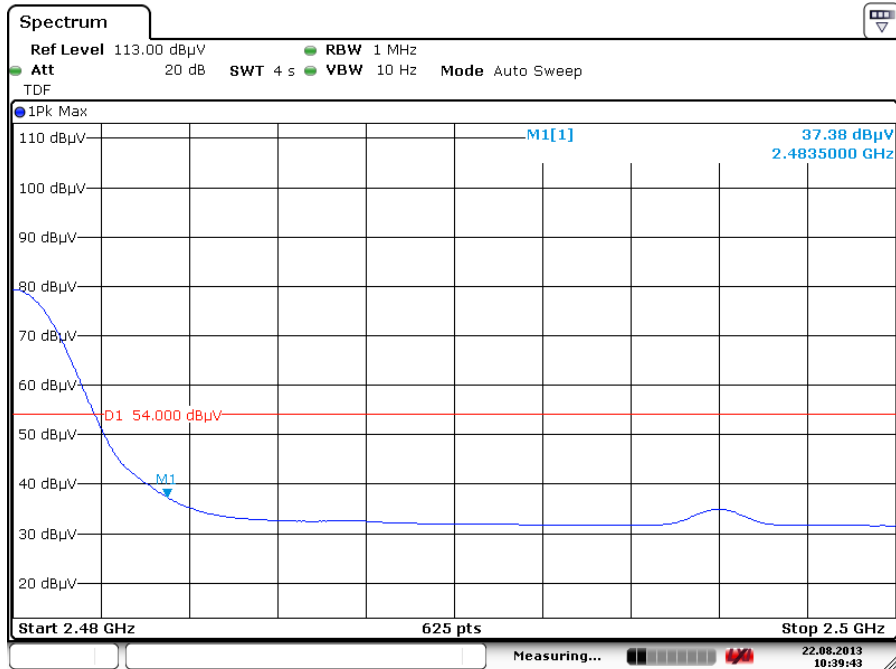
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Spurious Emissions, Band Edge, 2.35-2.5G

High Channel (Hor)



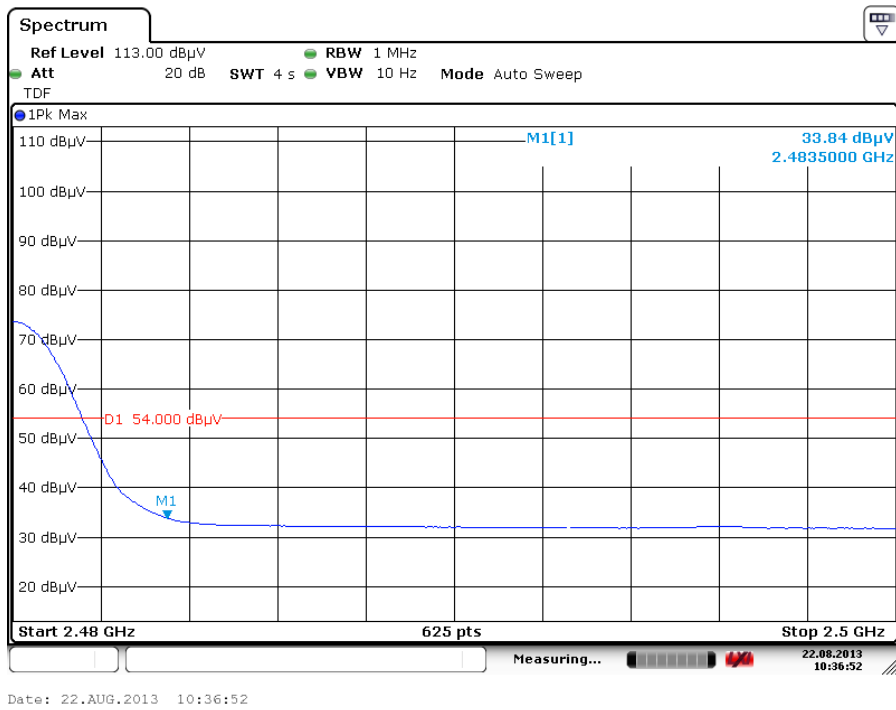
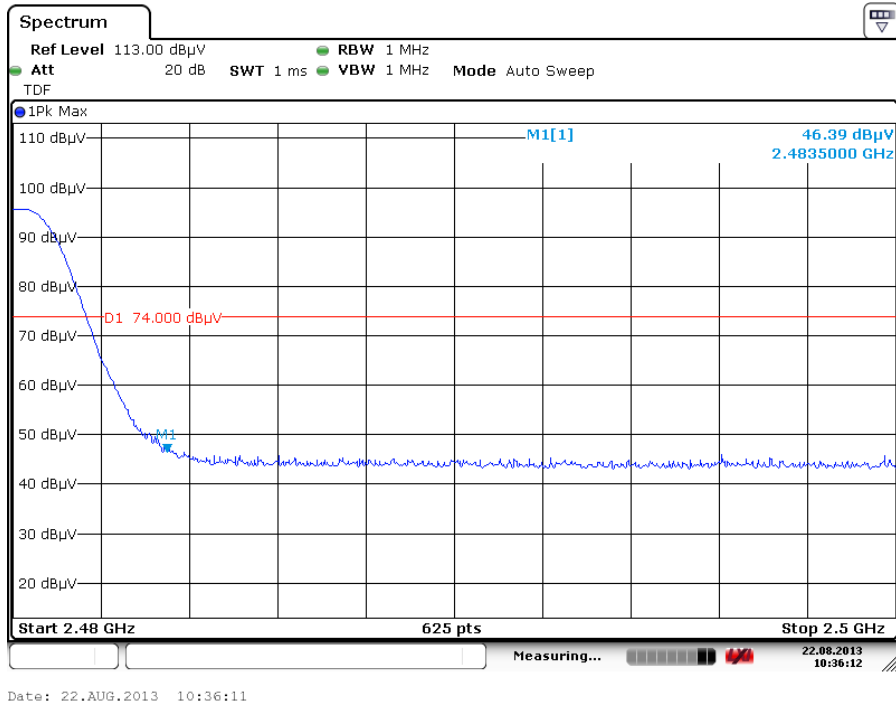
Date: 22.AUG.2013 10:39:27



Date: 22.AUG.2013 10:39:43

Spurious Emissions, Band Edge, 2.35-2.5G

High Channel (Ver)



Spurious Emissions, Band Edge, 2.35-2.5G

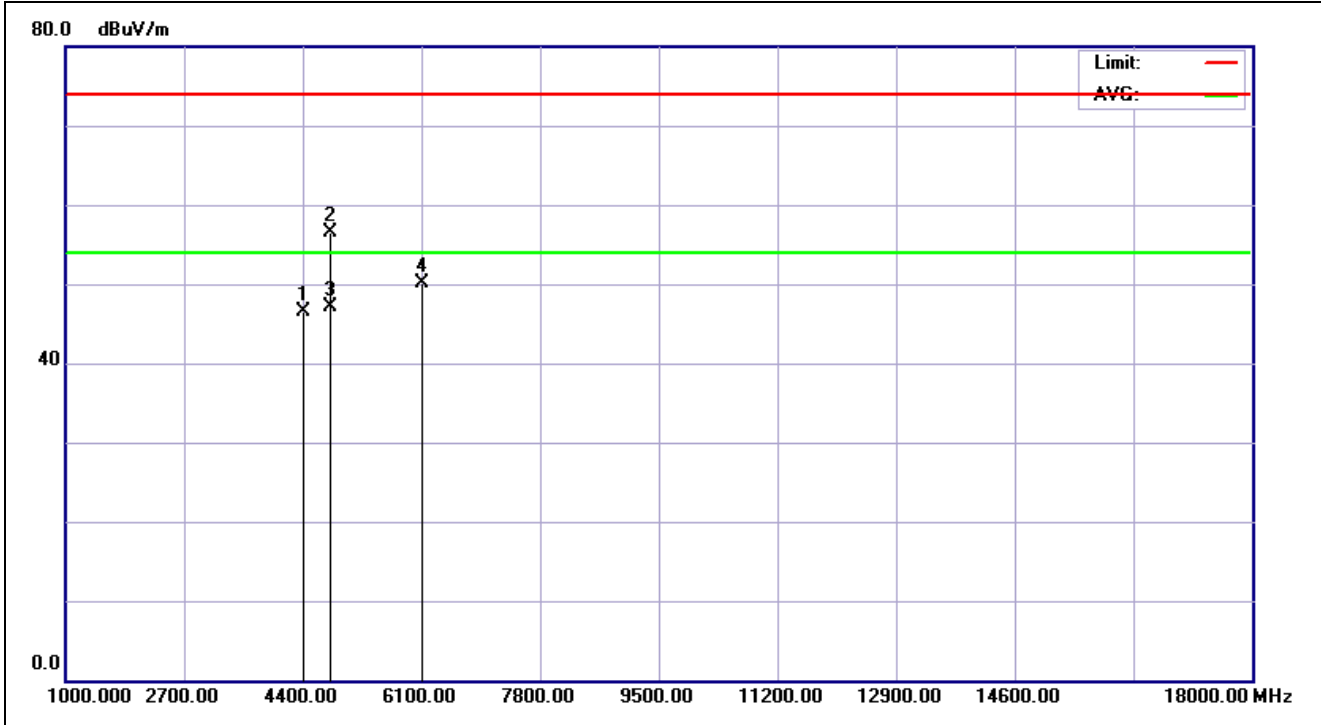
Spurious Emissions, TX Mode, 1-18G



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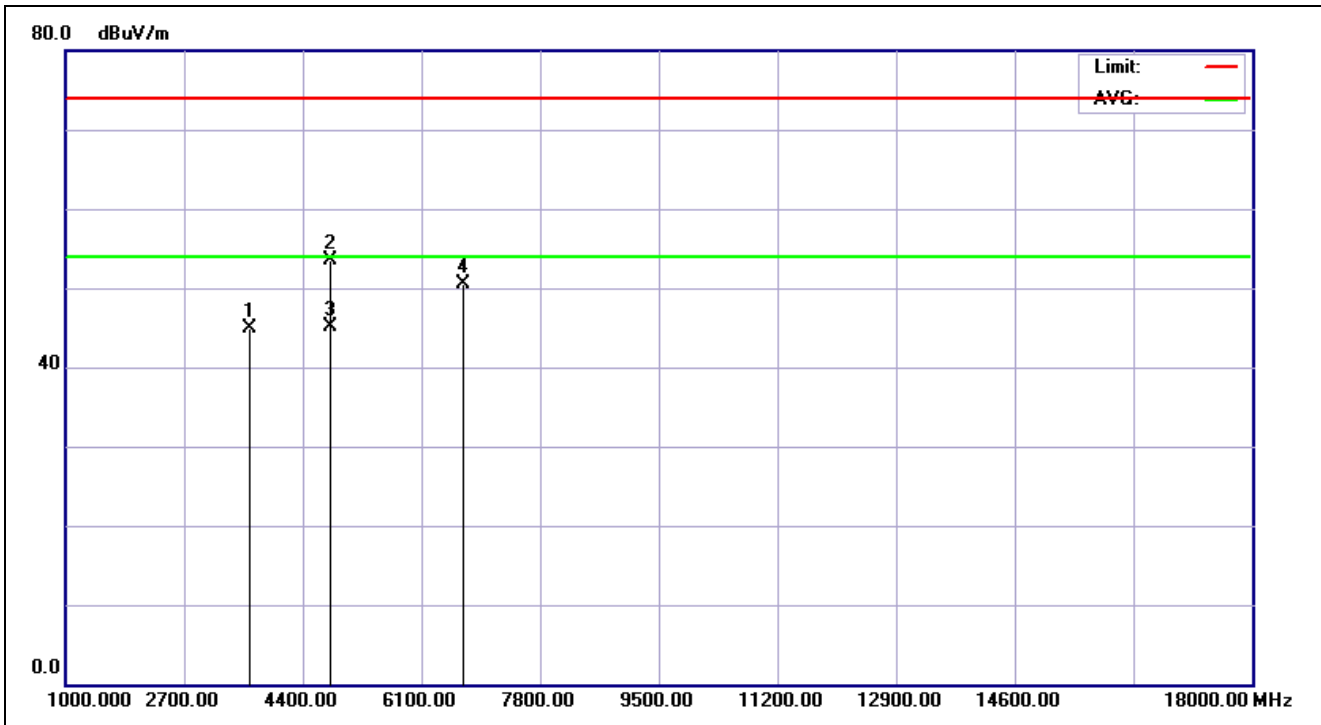
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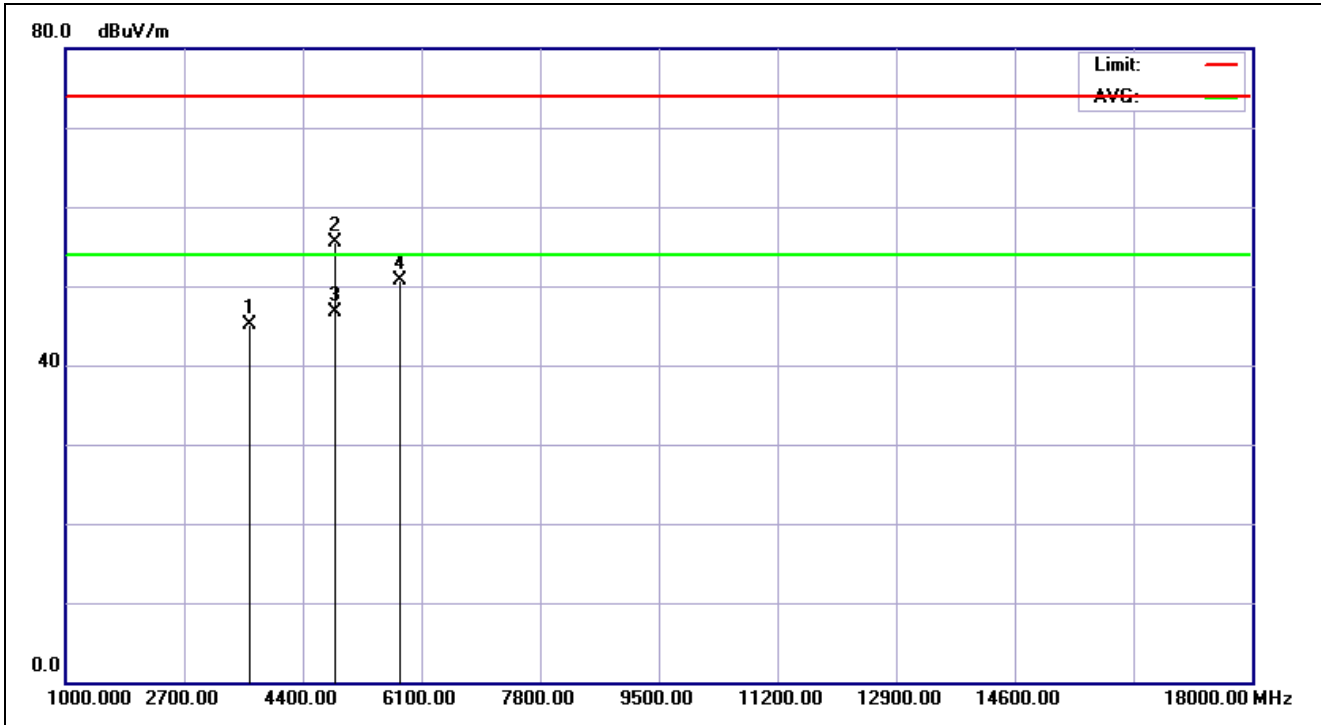
Service No.:	114010205-LE	Test Distance:	3M
Test Standard:	FCC above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2013/8/22 11:00:14
Applicant:	ISSC	Test Rating:	DC 5V
Product:	Bluetooth Shielded Module	Temp.(°C)/Hum.(%):	24(°C)/51%
Model No.:	BM77SPPS5	Test Engineer:	Hugo Chang
Test Mode:	2402-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4405.449	-3.91	50.44	46.53	74.00	-27.47	peak	100	309	
2	4786.859	-2.80	59.24	56.44	74.00	-17.56	peak	100	183	
3	4786.859	-2.80	49.81	47.01	54.00	-6.99	AVG	100	183	
4	6121.795	4.11	45.98	50.09	74.00	-23.91	peak	100	149	



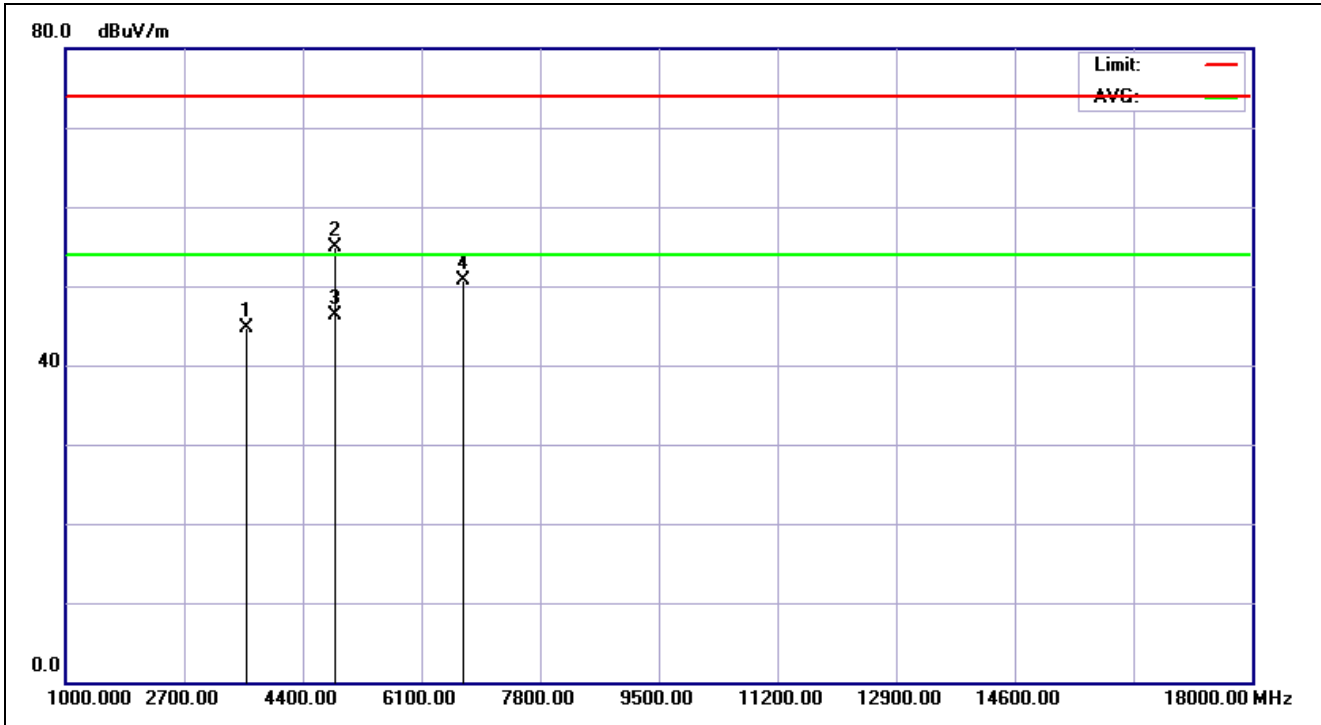
Service No.:	114010205-LE	Test Distance:	3M
Test Standard:	FCC above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2013/8/22 11:01:16
Applicant:	ISSC	Test Rating:	DC 5V
Product:	Bluetooth Shielded Module	Temp.(°C)/Hum.(%):	24(°C)/51%
Model No.:	BM77SPPS5	Test Engineer:	Hugo Chang
Test Mode:	2402-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	3642.628	-5.76	50.73	44.97	74.00	-29.03	peak	100	220	
2	4786.859	-2.80	56.24	53.44	74.00	-20.56	peak	100	228	
3	4786.859	-2.80	47.94	45.14	54.00	-8.86	AVG	100	228	
4	6693.910	5.22	45.30	50.52	74.00	-23.48	peak	100	57	



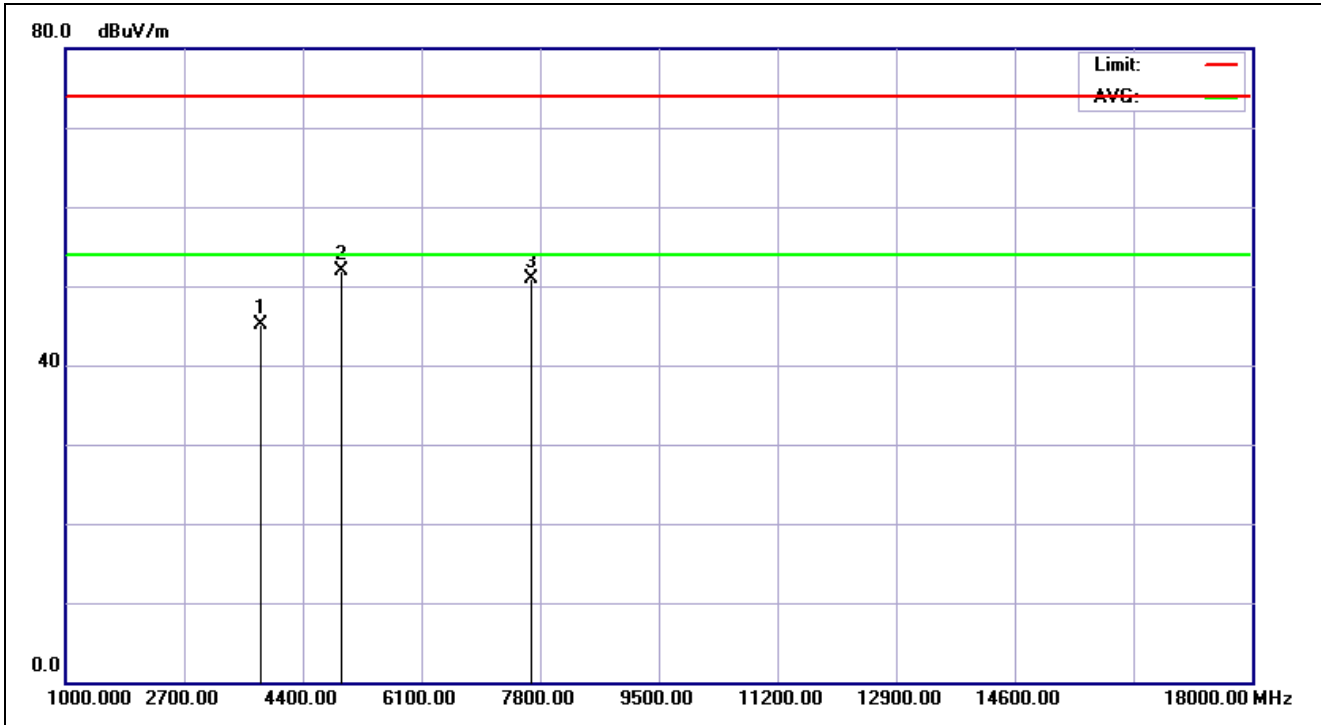
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Test Standard:	FCC above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2013/8/22 10:48:14
Applicant:	ISSC	Test Rating:	DC 5V
Product:	Bluetooth Shielded Module	Temp.(°C)/Hum.(%):	24(°C)/51%
Model No.:	BM77SPPS5	Test Engineer:	Hugo Chang
Test Mode:	2440-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	3642.628	-5.76	50.96	45.20	74.00	-28.80	peak	100	343	
2	4868.590	-2.57	57.99	55.42	74.00	-18.58	peak	100	183	
3	4868.590	-2.57	49.25	46.68	54.00	-7.32	AVG	100	183	
4	5794.872	2.26	48.46	50.72	74.00	-23.28	peak	100	76	



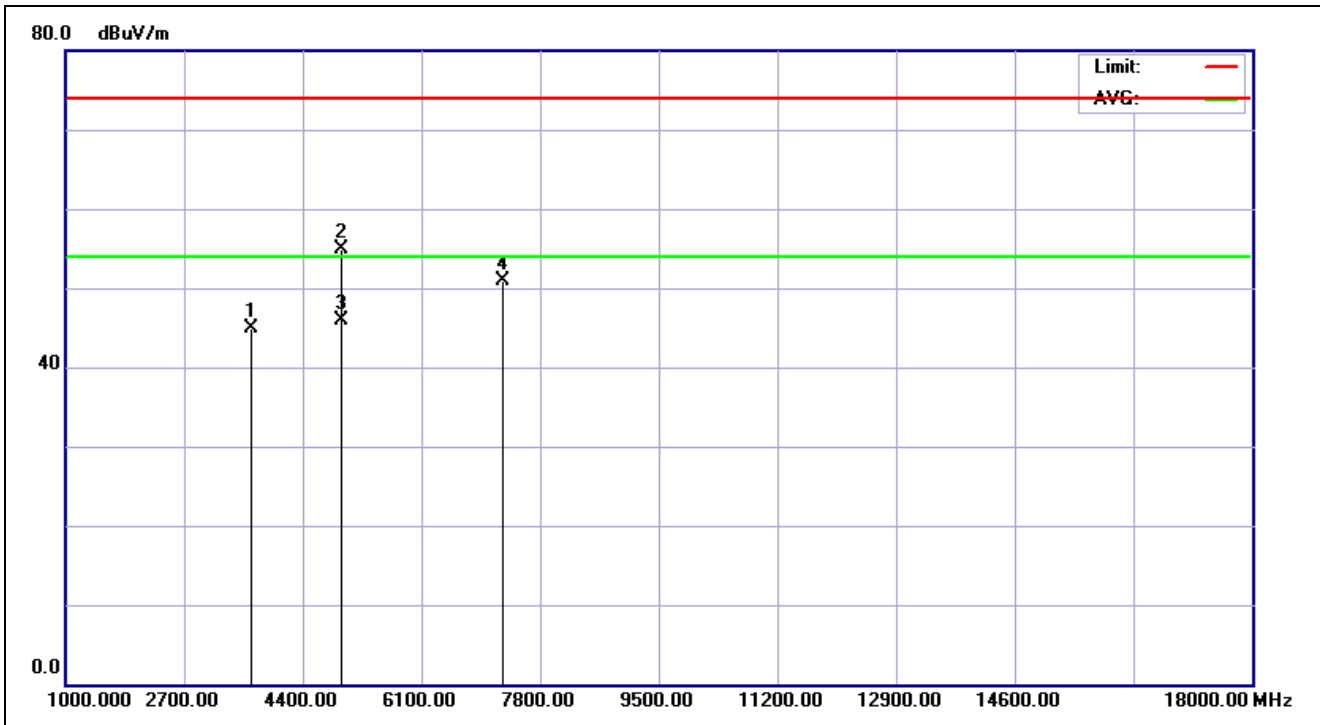
Service No.:	114010205-LE	Test Distance:	3M
Test Standard:	FCC above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2013/8/22 10:49:16
Applicant:	ISSC	Test Rating:	DC 5V
Product:	Bluetooth Shielded Module	Temp.(°C)/Hum.(%):	24(°C)/51%
Model No.:	BM77SPPS5	Test Engineer:	Hugo Chang
Test Mode:	2440-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	3588.141	-5.79	50.42	44.63	74.00	-29.37	peak	100	215	
2	4868.590	-2.57	57.42	54.85	74.00	-19.15	peak	100	228	
3	4868.590	-2.57	48.81	46.24	54.00	-7.76	AVG	100	228	
4	6693.910	5.22	45.42	50.64	74.00	-23.36	peak	100	12	



Service No.:	114010205-LE	Test Distance:	3M
Test Standard:	FCC above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2013/8/22 10:43:40
Applicant:	ISSC	Test Rating:	DC 5V
Product:	Bluetooth Shielded Module	Temp.(°C)/Hum.(%):	24(°C)/51%
Model No.:	BM77SPPS5	Test Engineer:	Hugo Chang
Test Mode:	2480-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	3806.090	-5.63	50.71	45.08	74.00	-28.92	peak	100	199	
2	4950.320	-2.36	54.24	51.88	74.00	-22.12	peak	100	8	
3	7674.679	6.15	44.66	50.81	74.00	-23.19	peak	100	316	



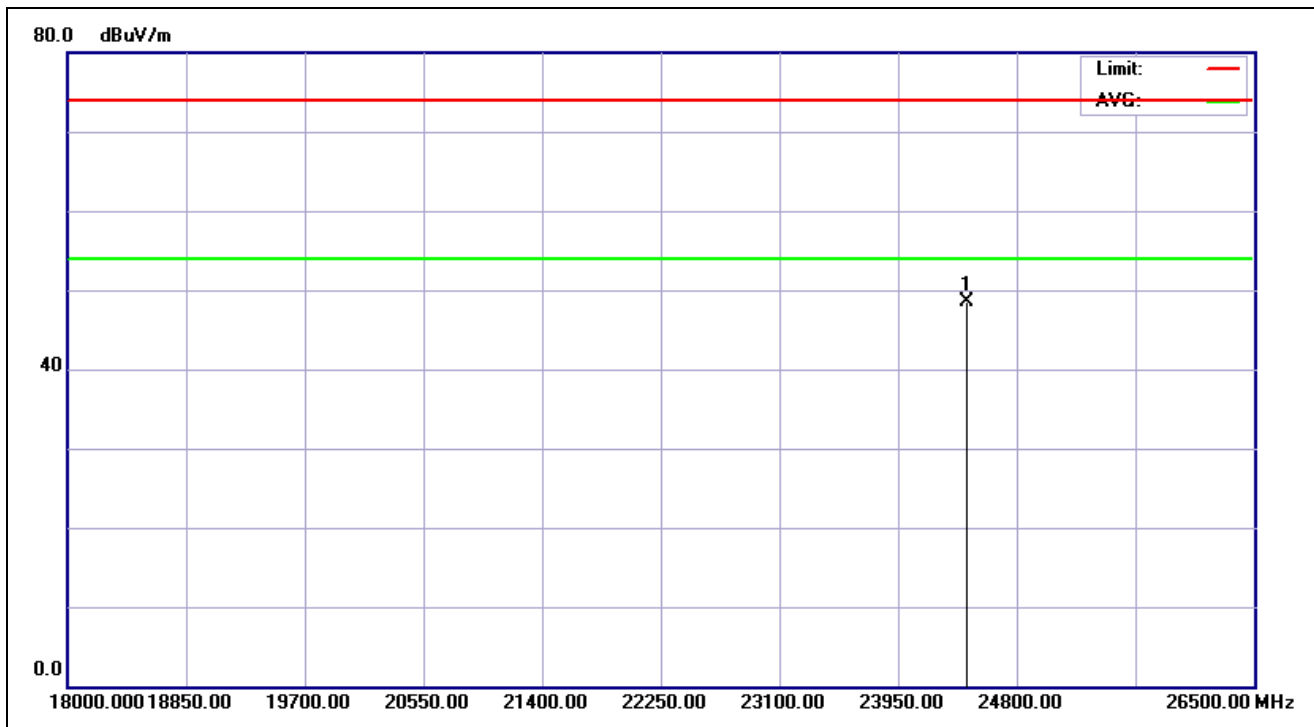
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Test Standard:	FCC above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2013/8/22 10:44:42
Applicant:	ISSC	Test Rating:	DC 5V
Product:	Bluetooth Shielded Module	Temp.(°C)/Hum.(%):	24(°C)/51%
Model No.:	BM77SPPS5	Test Engineer:	Hugo Chang
Test Mode:	2480-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	3669.872	-5.74	50.64	44.90	74.00	-29.10	peak	100	242	
2	4950.320	-2.36	57.25	54.89	74.00	-19.11	peak	100	237	
3	4950.320	-2.36	48.33	45.97	54.00	-8.03	AVG	100	237	
4	7266.026	5.59	45.39	50.98	74.00	-23.02	peak	100	304	

Spurious Emissions, TX Mode, 18-26G

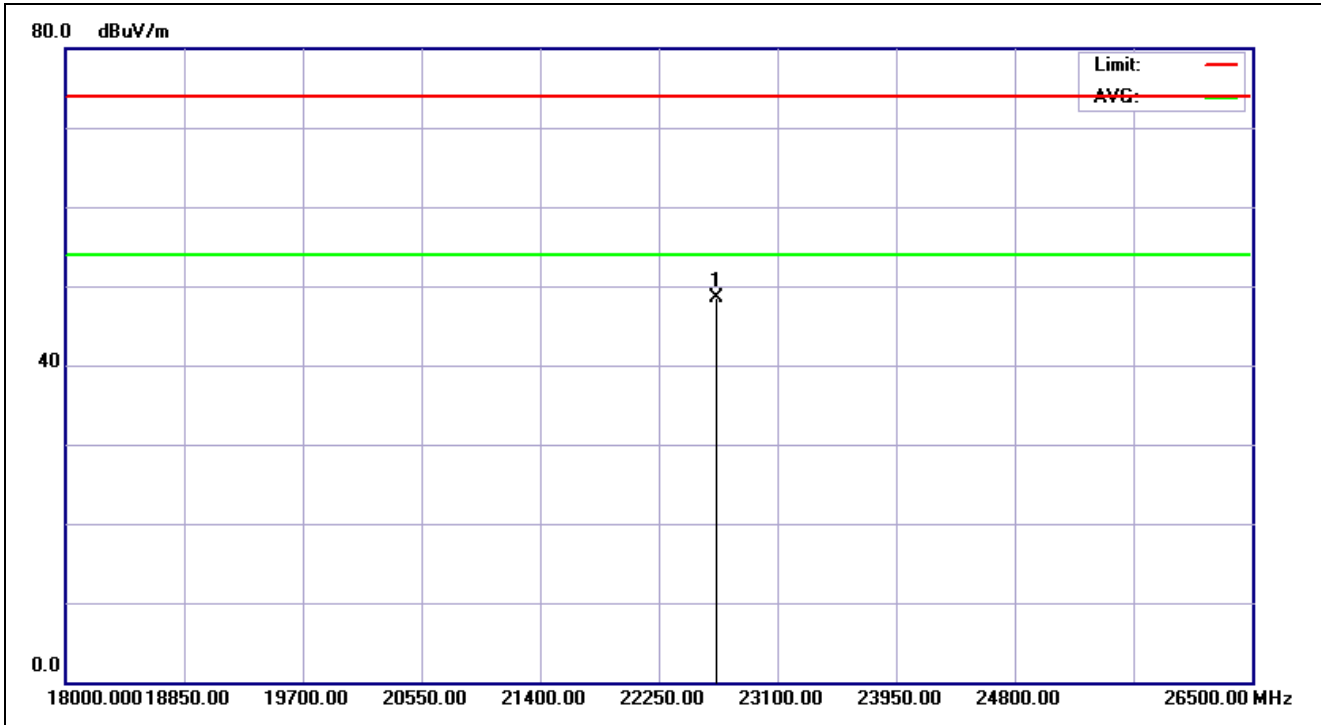


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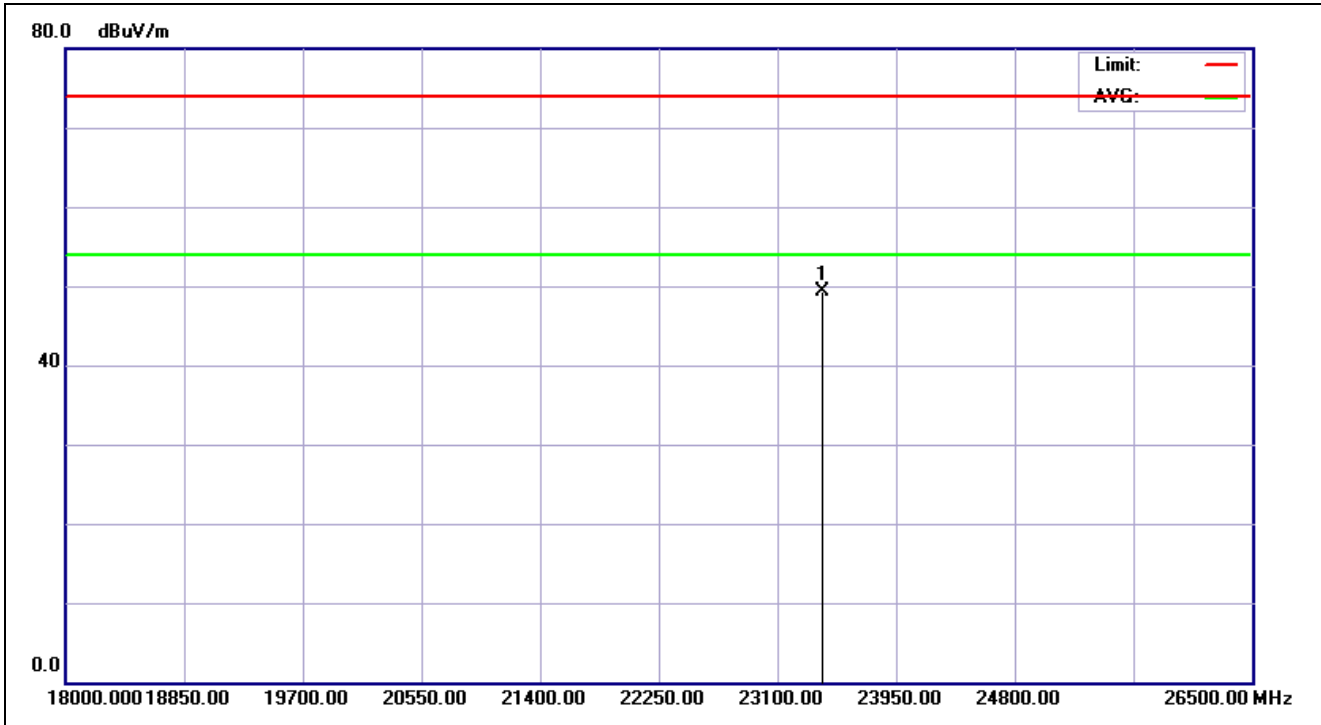
Service No.:	114010205-LE	Test Distance:	3M
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Test item:	Radiation Emission	Test Time:	2013/8/22 11:10:00
Applicant:	ISSC	Test Rating:	DC 5V
Product:	Bluetooth Shielded Module	Temp.(°C)/Hum.(%):	24(°C)/51%
Model No.:	BM77SPPS5	Test Engineer:	Hugo Chang
Test Mode:	2402-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	24443.109	29.96	18.56	48.52	74.00	-25.48	peak			



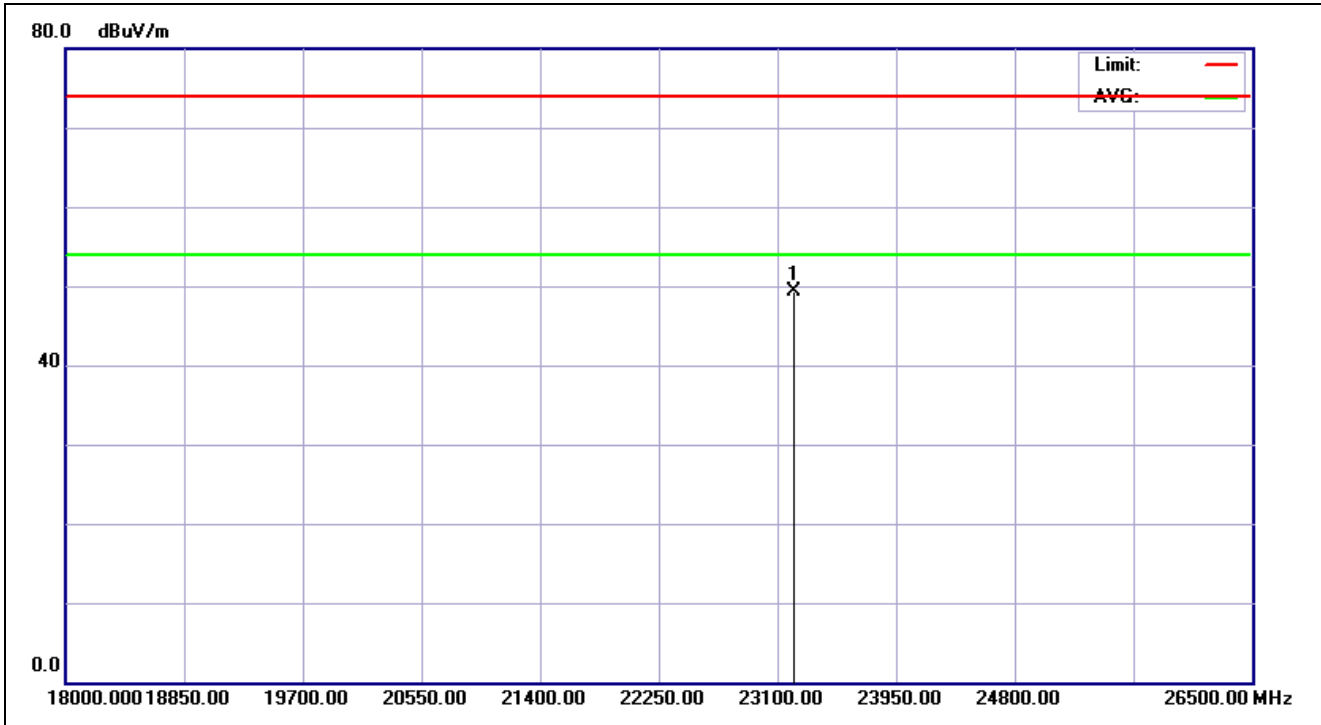
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Test Standard:	FCC above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2013/8/22 11:10:46
Applicant:	ISSC	Test Rating:	DC 5V
Product:	Bluetooth Shielded Module	Temp.(°C)/Hum.(%):	24(°C)/51%
Model No.:	BM77SPPS5	Test Engineer:	Hugo Chang
Test Mode:	2402-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	22658.654	29.40	19.14	48.54	74.00	-25.46	peak			



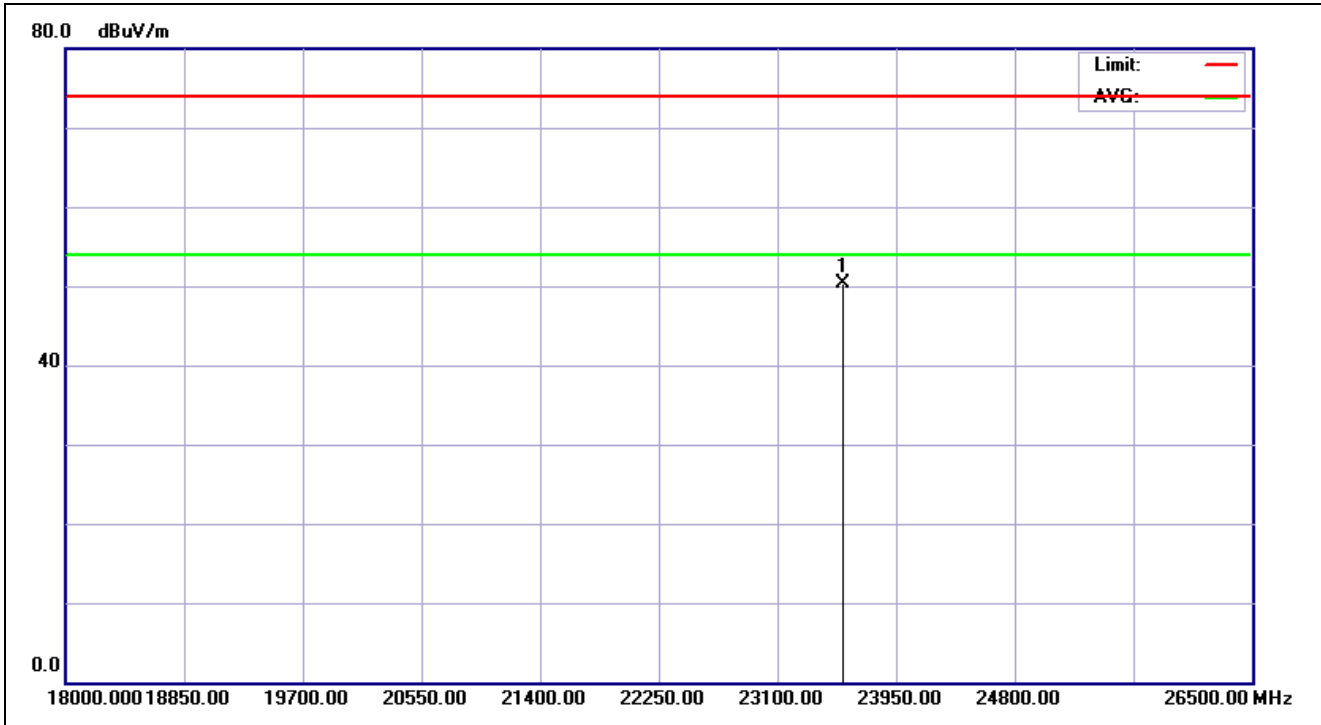
Service No.:	114010205-LE	Test Distance:	3M
Test Standard:	FCC above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2013/8/22 11:11:15
Applicant:	ISSC	Test Rating:	DC 5V
Product:	Bluetooth Shielded Module	Temp.(°C)/Hum.(%):	24(°C)/51%
Model No.:	BM77SPPS5	Test Engineer:	Hugo Chang
Test Mode:	2440-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	23421.474	30.14	19.24	49.38	74.00	-24.62	peak			



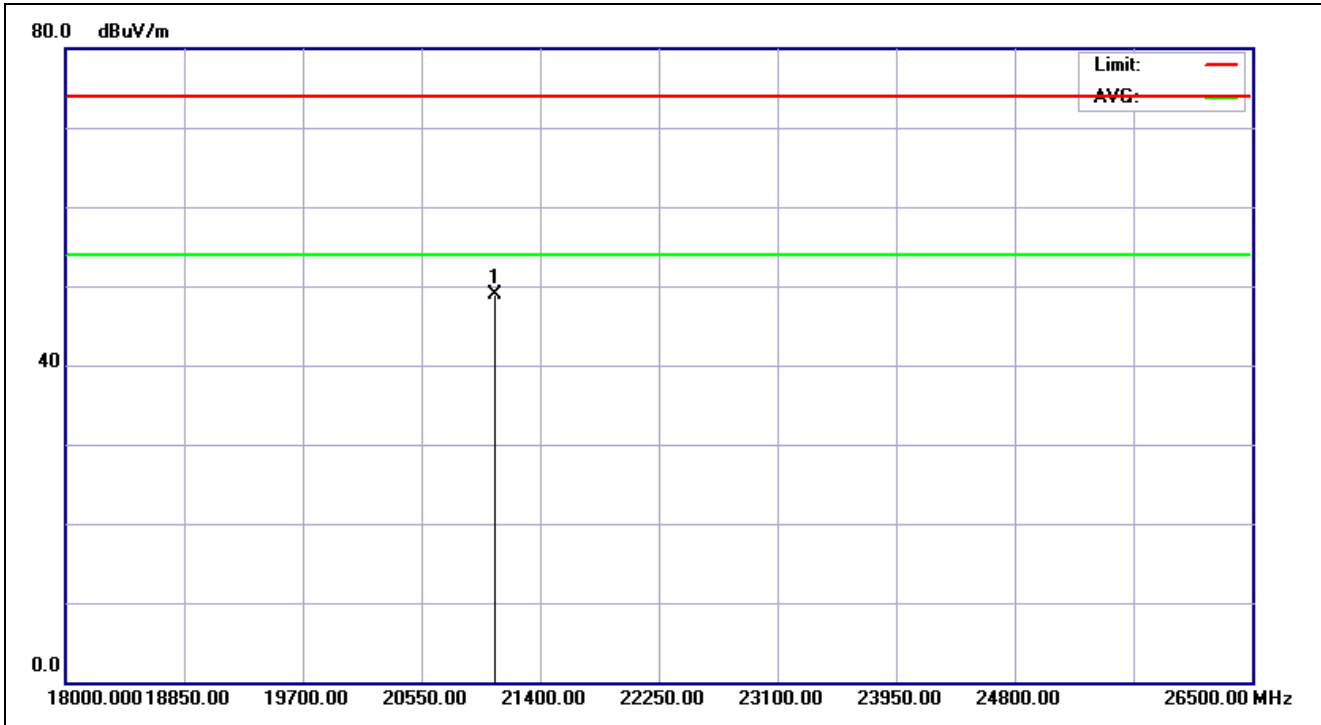
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Test Standard:	FCC above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2013/8/22 11:11:47
Applicant:	ISSC	Test Rating:	DC 5V
Product:	Bluetooth Shielded Module	Temp.(°C)/Hum.(%):	24(°C)/51%
Model No.:	BM77SPPS5	Test Engineer:	Hugo Chang
Test Mode:	2440-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	23217.147	30.20	19.02	49.22	74.00	-24.78	peak			



Service No.:	114010205-LE	Test Distance:	3M
Test Standard:	FCC above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2013/8/22 11:12:23
Applicant:	ISSC	Test Rating:	DC 5V
Product:	Bluetooth Shielded Module	Temp.(°C)/Hum.(%):	24(°C)/51%
Model No.:	BM77SPPS5	Test Engineer:	Hugo Chang
Test Mode:	2480-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	23571.314	29.96	20.37	50.33	74.00	-23.67	peak			



Service No.:	114010205-LE	Test Distance:	3M
Test Standard:	FCC above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2013/8/22 11:12:51
Applicant:	ISSC	Test Rating:	DC 5V
Product:	Bluetooth Shielded Module	Temp.(°C)/Hum.(%):	24(°C)/51%
Model No.:	BM77SPPS5	Test Engineer:	Hugo Chang
Test Mode:	2480-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21078.526	29.56	19.30	48.86	74.00	-25.14	peak			

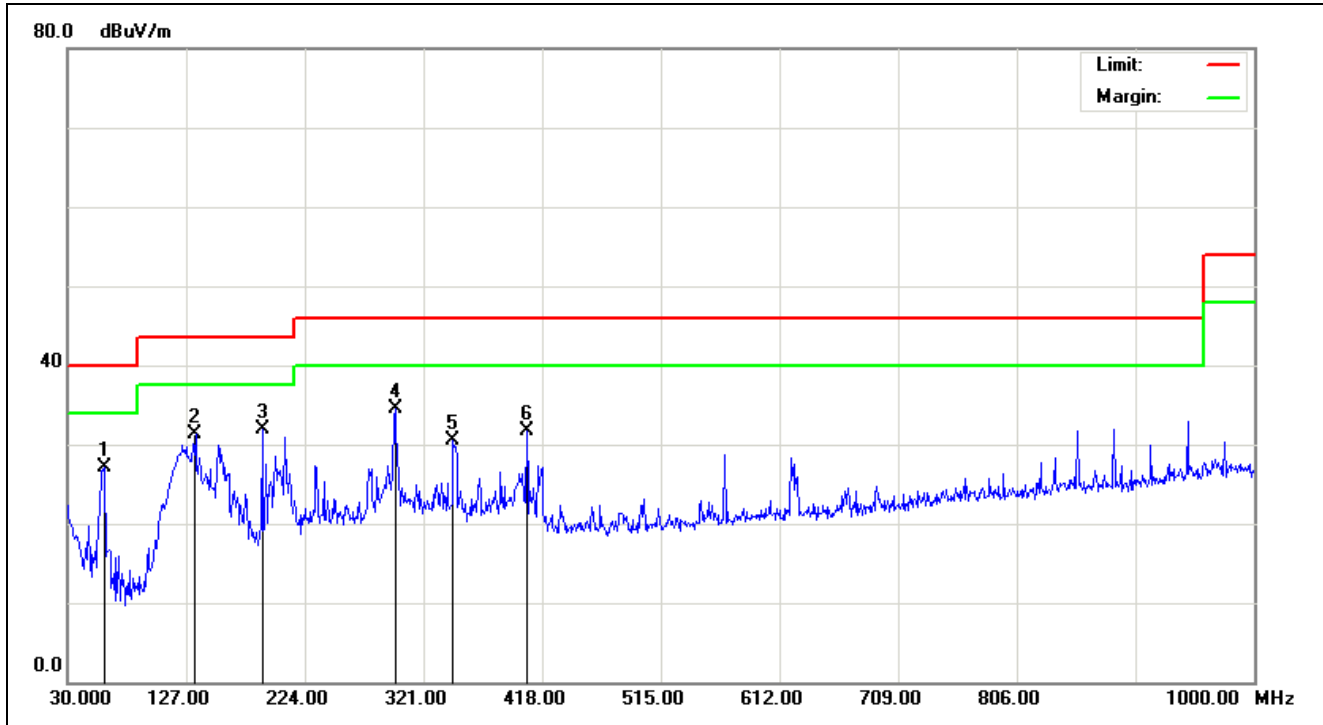
Spurious Emissions, TX Mode, 30M-1G



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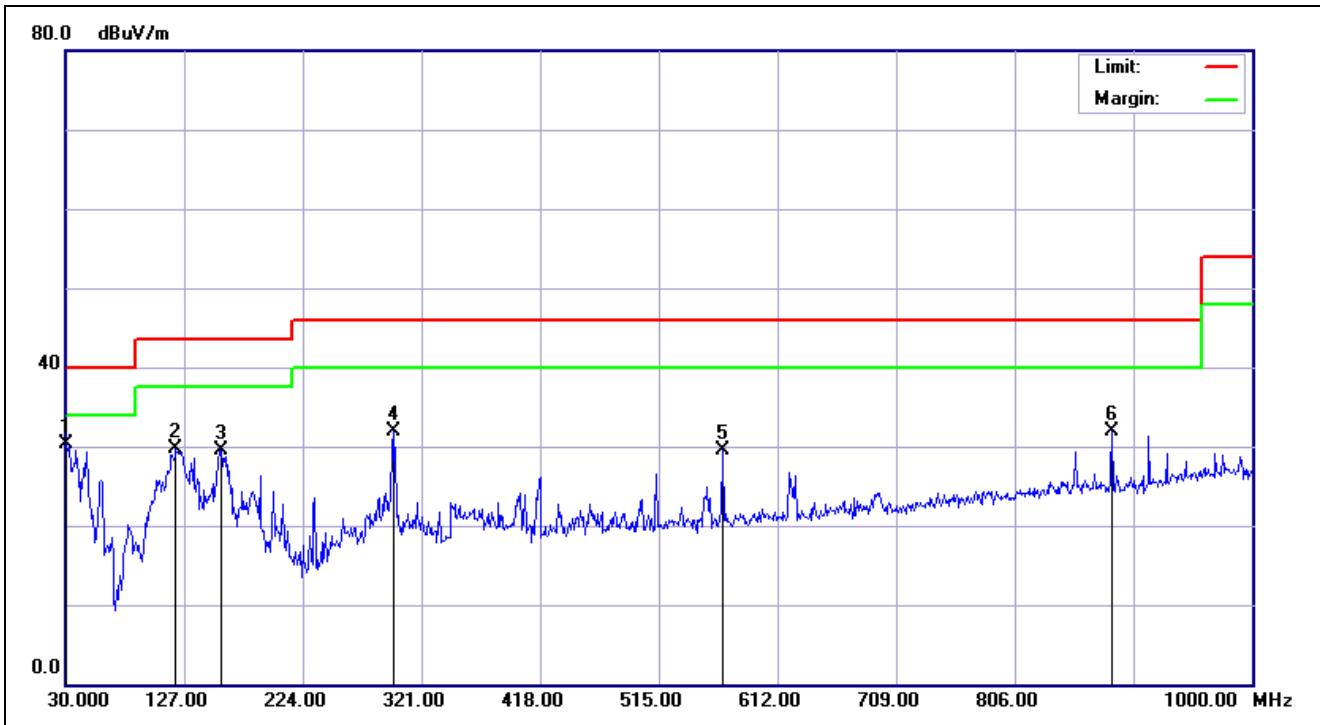
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Service No.:	114010205-LE	Test Distance:	3M
Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2013/8/22 09:20:13
Applicant:	ISSC	Test Rating:	DC 5V
Product:	Bluetooth Shielded Module	Temp.(°C)/Hum.(%):	24(°C)/51%
Model No.:	BM77SPPS5	Test Engineer:	Hugo Chang
Test Mode:			
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	60.0700	-19.61	46.77	27.16	40.00	-12.84	QP	400	0	
2	134.7599	-12.85	44.10	31.25	43.50	-12.25	QP	200	115	
3	189.0800	-15.58	47.57	31.99	43.50	-11.51	QP	100	97	
4	297.7200	-10.47	44.99	34.52	46.00	-11.48	QP	100	94	
5	345.2500	-9.54	40.05	30.51	46.00	-15.49	QP	200	146	
6	405.3899	-8.47	40.22	31.75	46.00	-14.25	QP	100	305	



Service No.:	114010205-LE	Test Distance:	3M
Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2013/8/22 09:24:12
Applicant:	ISSC	Test Rating:	DC 5V
Product:	Bluetooth Shielded Module	Temp.(°C)/Hum.(%):	24(°C)/51%
Model No.:	BM77SPPS5	Test Engineer:	Hugo Chang
Test Mode:			
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.0000	-6.03	36.35	30.32	40.00	-9.68	QP	100	276	
2	120.2100	-13.28	43.04	29.76	43.50	-13.74	QP	100	193	
3	157.0700	-13.76	43.21	29.45	43.50	-14.05	QP	100	170	
4	297.7200	-10.47	42.33	31.86	46.00	-14.14	QP	100	181	
5	567.3800	-6.55	36.03	29.48	46.00	-16.52	QP	100	162	
6	885.5400	-2.17	34.01	31.84	46.00	-14.16	QP	100	234	