

Test Report No.10048077 002

Appendix D: Radiated Spurious Emission Data

(File: 10048077 002AppendixD)

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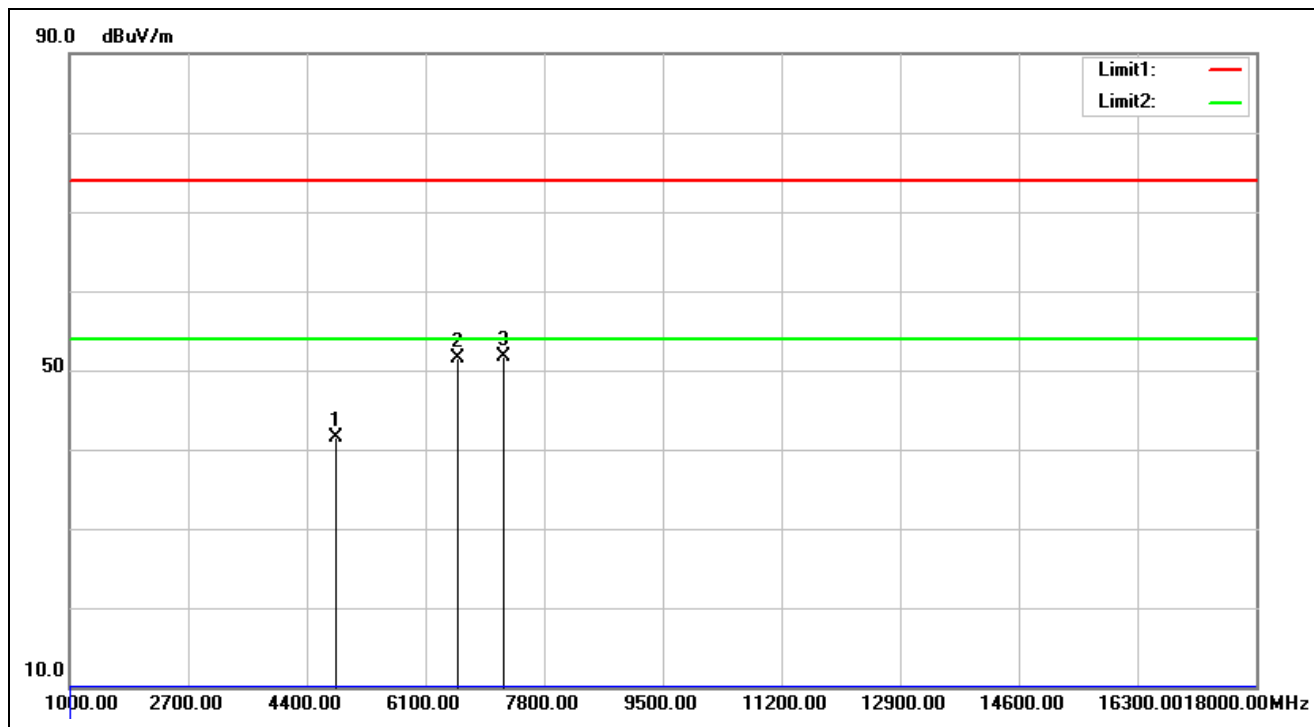
Spurious Emissions, TX Mode, 1-18G



TUV Taiwan

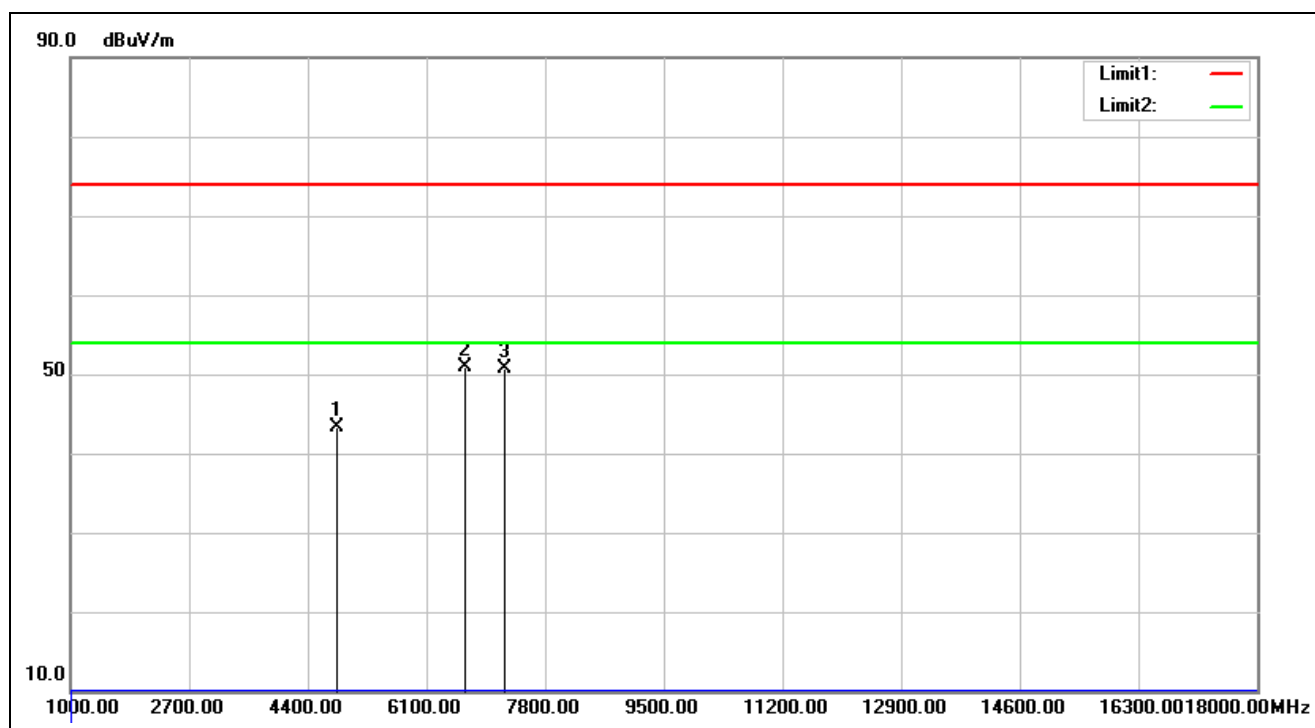
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



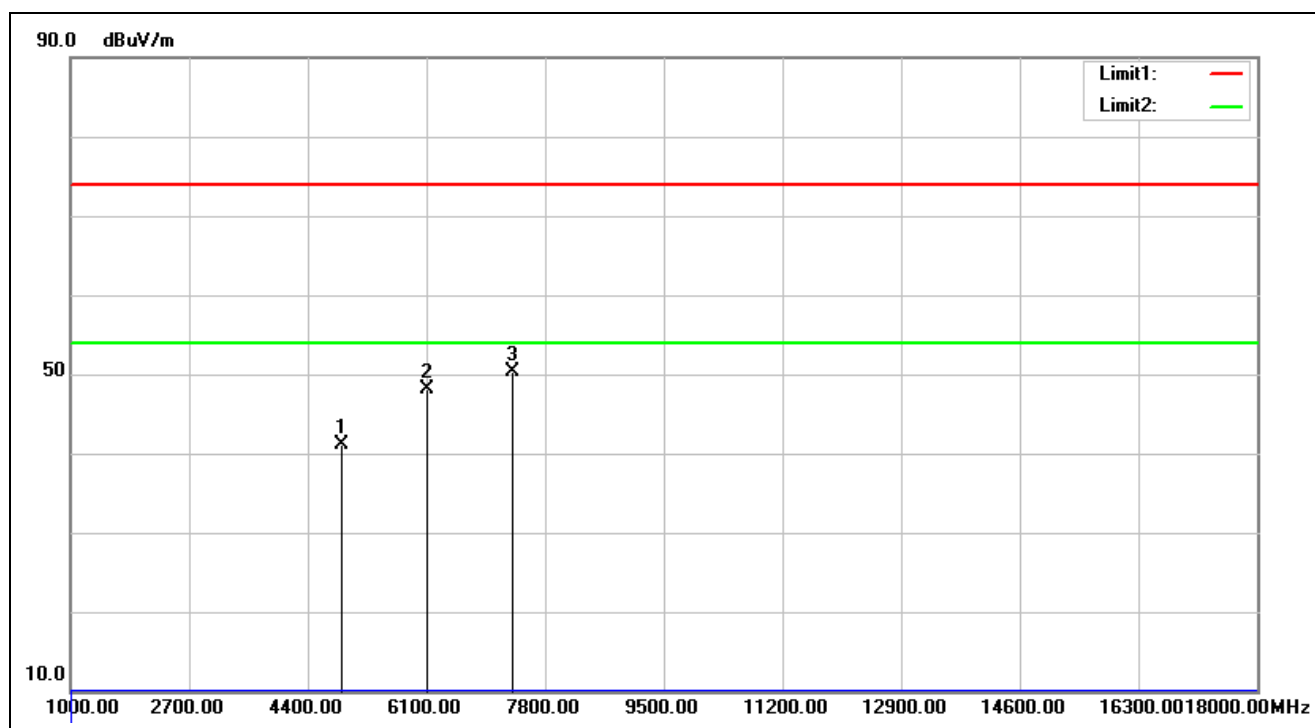
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/10/30 20:22:59
Applicant:	Microchip	Test Rating:	DC 5V
Product:	BT module	Temp.(°C)/Hum.(%):	23(°C)/52%
Model No.:	BM23SPKXY	Test Engineer:	George Yang
Test Mode:	1DH5-2402-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4804.000	-2.35	43.77	41.42	74.00	-32.58	peak			
2	6559.000	5.94	45.56	51.50	74.00	-22.50	peak	300	224	
3	7206.000	5.78	45.87	51.65	74.00	-22.35	peak			



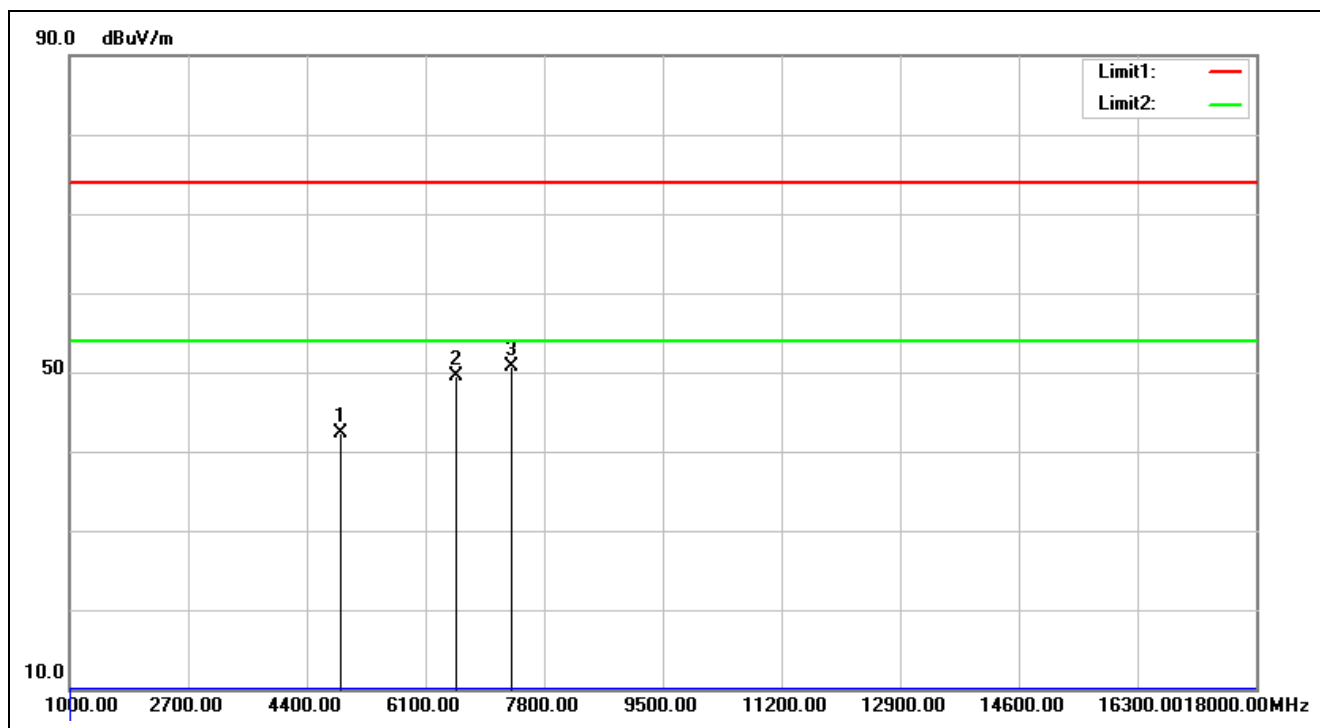
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/10/30 20:24:02
Applicant:	Microchip	Test Rating:	DC 5V
Product:	BT module	Temp.(°C)/Hum.(%)	23(°C)/52%
Model No.:	BM23SPKXY	Test Engineer:	George Yang
Test Mode:	1DH5-2402-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4804.000	-2.35	45.64	43.29	74.00	-30.71	peak			
2	6644.000	5.79	45.21	51.00	74.00	-23.00	peak	300	167	
3	7206.000	5.78	44.85	50.63	74.00	-23.37	peak			



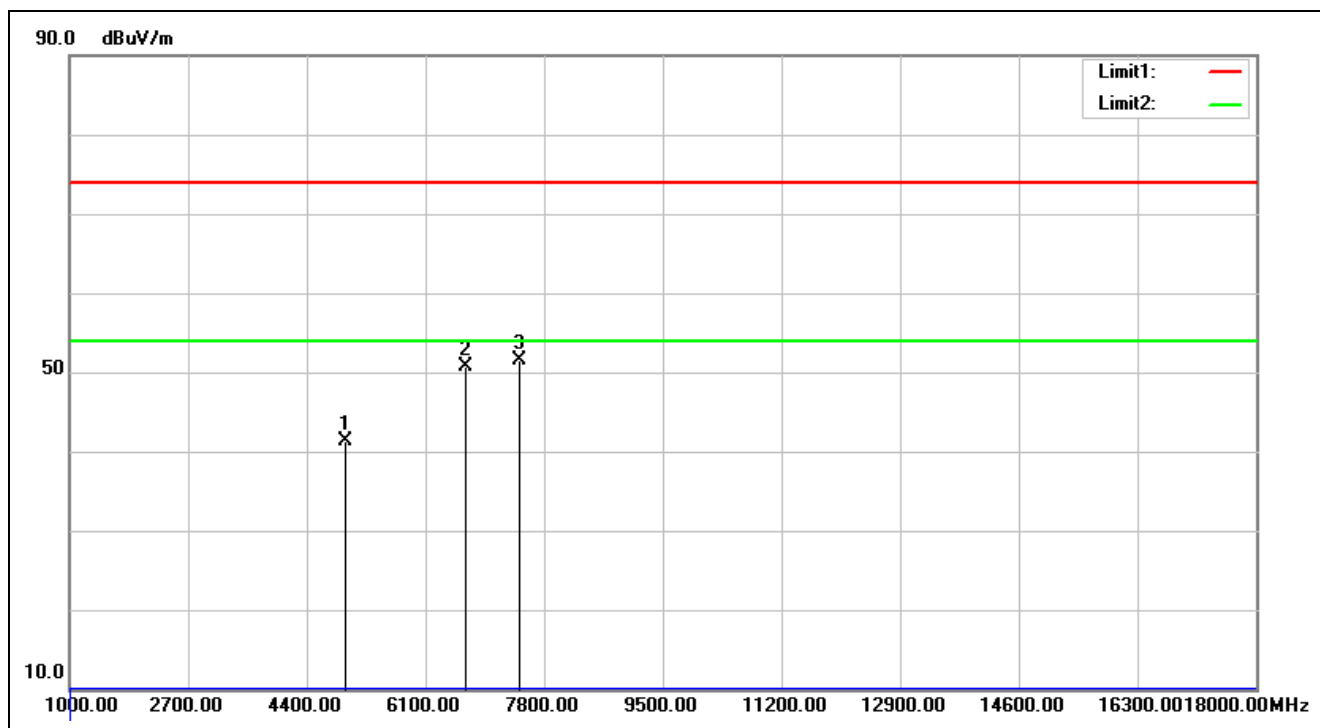
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/10/30 20:14:29
Applicant:	Microchip	Test Rating:	DC 5V
Product:	BT module	Temp.(°C)/Hum.(%)	23(°C)/52%
Model No.:	BM23SPKXY	Test Engineer:	George Yang
Test Mode:	1DH5-2441-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4882.000	-2.16	43.22	41.06	74.00	-32.94	peak			
2	6100.000	4.47	43.70	48.17	74.00	-25.83	peak	300	193	
3	7323.000	6.13	44.12	50.25	74.00	-23.75	peak			



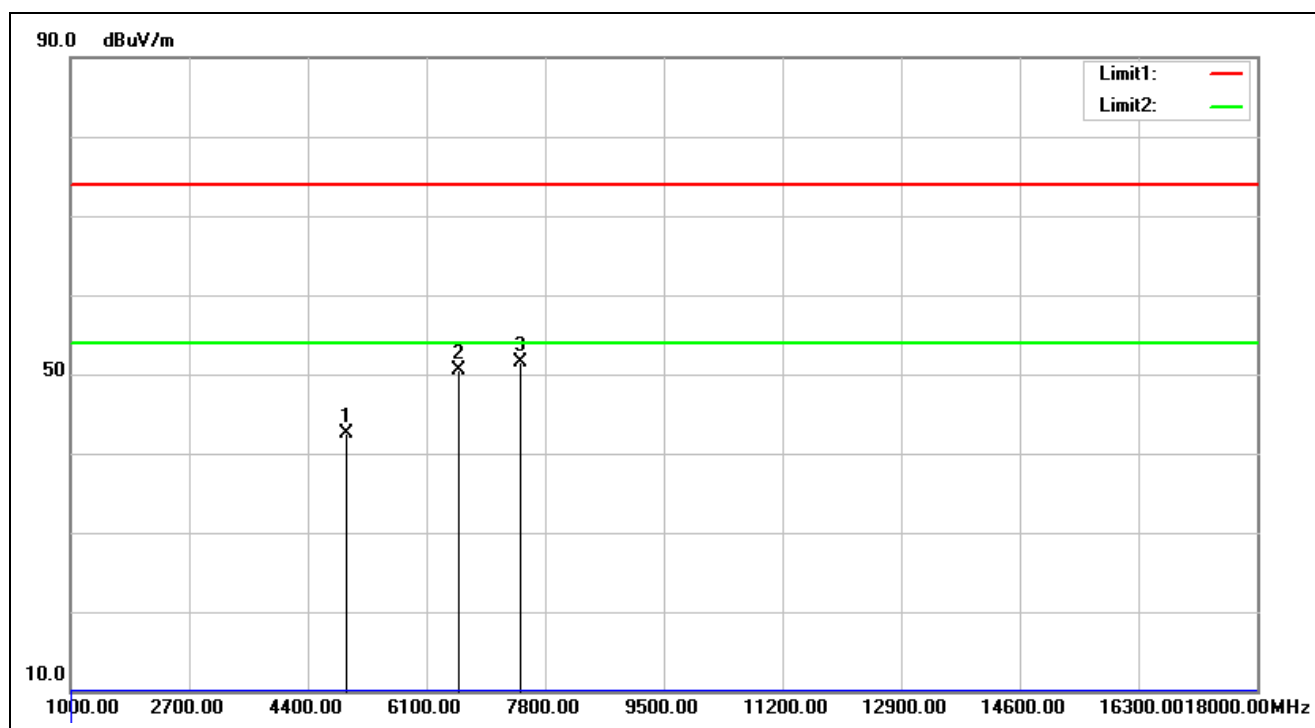
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Test item:	Radiation Emission	Test Time:	2015/10/30 20:15:32
Applicant:	Microchip	Test Rating:	DC 5V
Product:	BT module	Temp.(°C)/Hum.(%):	23(°C)/52%
Model No.:	BM23SPKXY	Test Engineer:	George Yang
Test Mode:	1DH5-2441-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4882.000	-2.16	44.38	42.22	74.00	-31.78	peak			
2	6542.000	5.96	43.58	49.54	74.00	-24.46	peak	300	238	
3	7323.000	6.13	44.56	50.69	74.00	-23.31	peak			



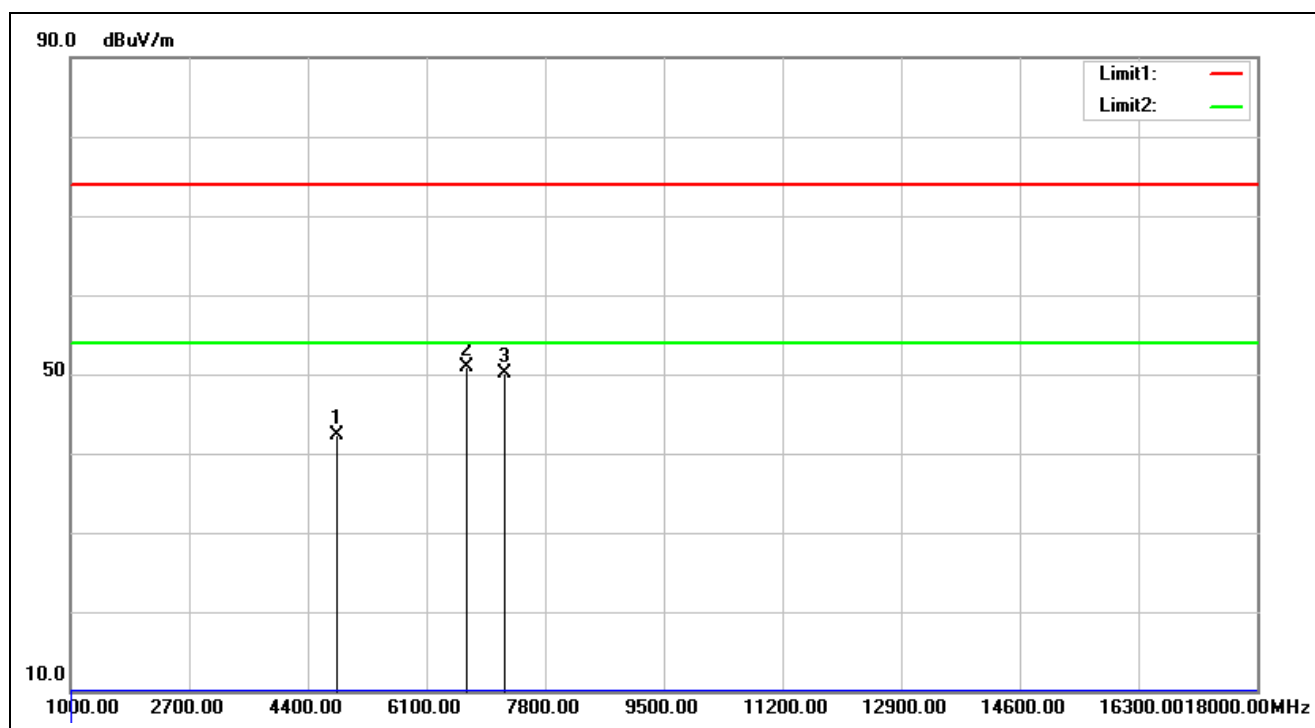
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Test item:	Radiation Emission	Test Time:	2015/10/30 20:29:08
Applicant:	Microchip	Test Rating:	DC 5V
Product:	BT module	Temp.(°C)/Hum.(%):	23(°C)/52%
Model No.:	BM23SPKXY	Test Engineer:	George Yang
Test Mode:	1DH5-2480-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4960.000	-1.97	43.36	41.39	74.00	-32.61	peak			
2	6678.000	5.73	44.99	50.72	74.00	-23.28	peak	300	343	
3	7440.000	6.47	45.09	51.56	74.00	-22.44	peak			



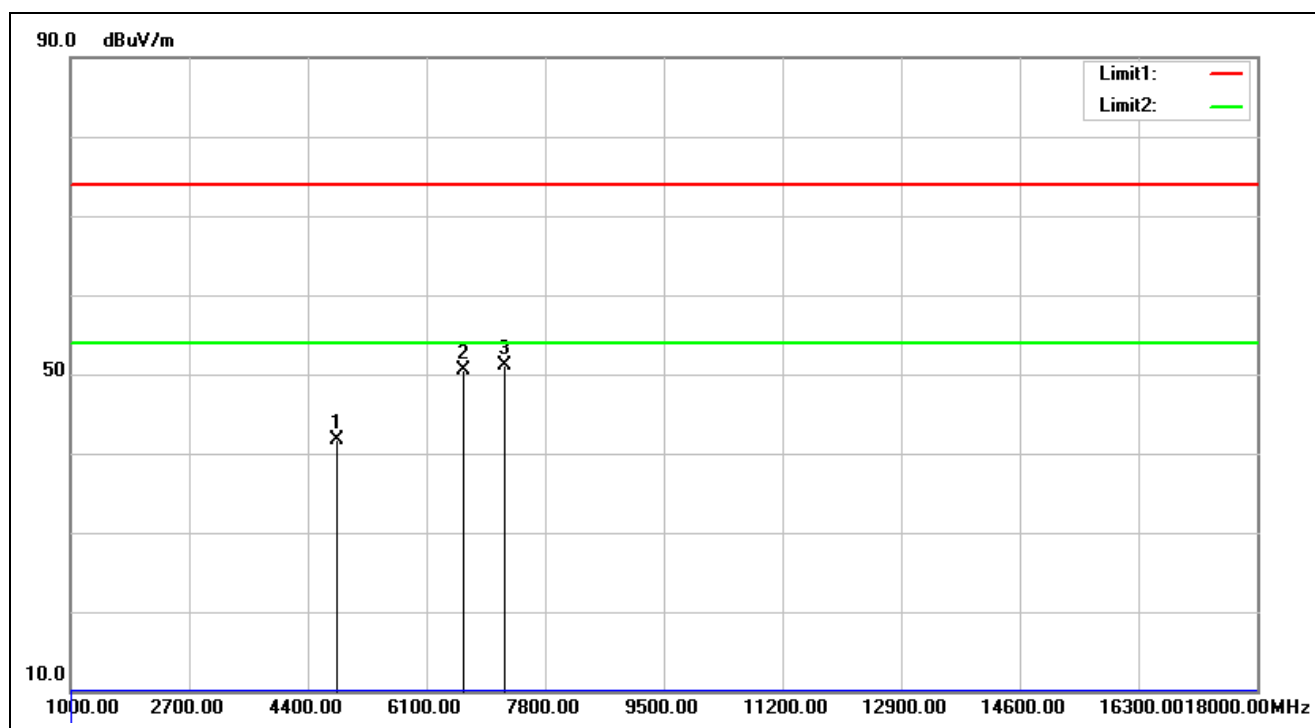
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/10/30 20:30:11
Applicant:	Microchip	Test Rating:	DC 5V
Product:	BT module	Temp.(°C)/Hum.(%):	23(°C)/52%
Model No.:	BM23SPKXY	Test Engineer:	George Yang
Test Mode:	1DH5-2480-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4960.000	-1.97	44.38	42.41	74.00	-31.59	peak			
2	6559.000	5.94	44.59	50.53	74.00	-23.47	peak	300	358	
3	7440.000	6.47	44.99	51.46	74.00	-22.54	peak			



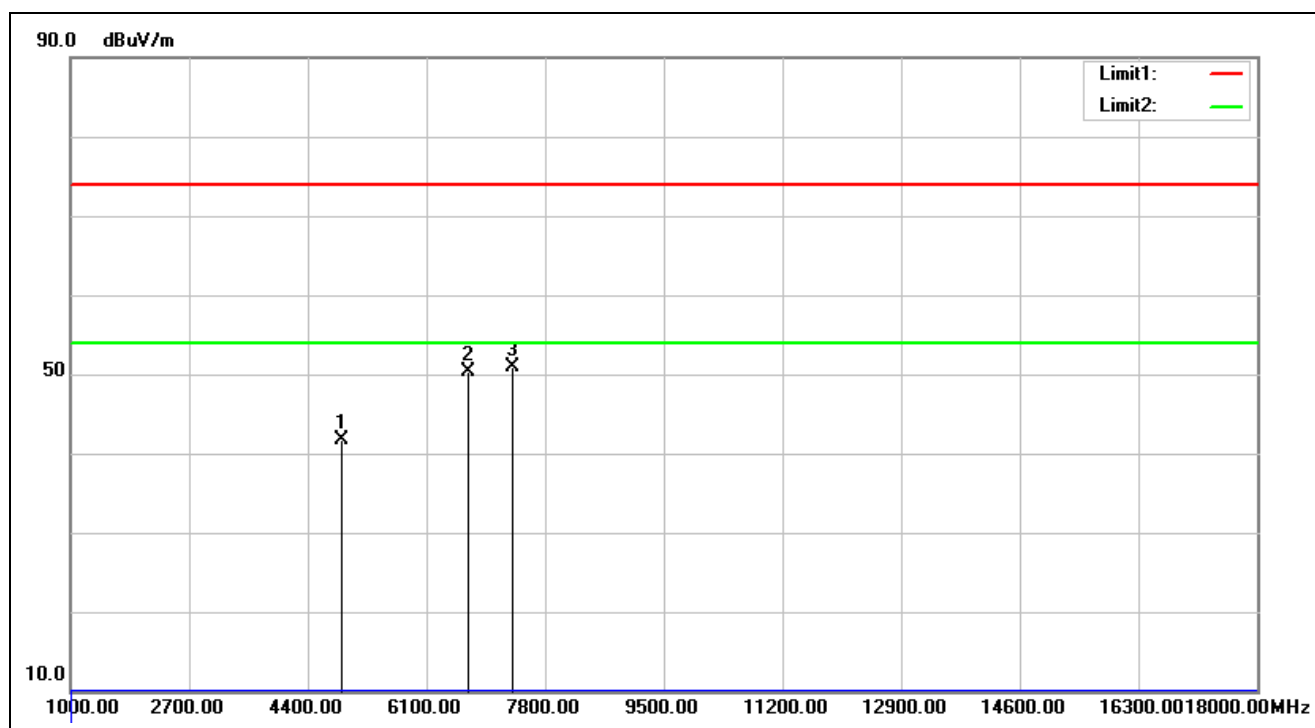
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/10/30 20:33:07
Applicant:	Microchip	Test Rating:	DC 5V
Product:	BT module	Temp.(°C)/Hum.(%):	23(°C)/52%
Model No.:	BM23SPKXY	Test Engineer:	George Yang
Test Mode:	3DH5-2402-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4804.000	-2.35	44.56	42.21	74.00	-31.79	peak			
2	6678.000	5.73	45.13	50.86	74.00	-23.14	peak	300	44	
3	7206.000	5.78	44.42	50.20	74.00	-23.80	peak			



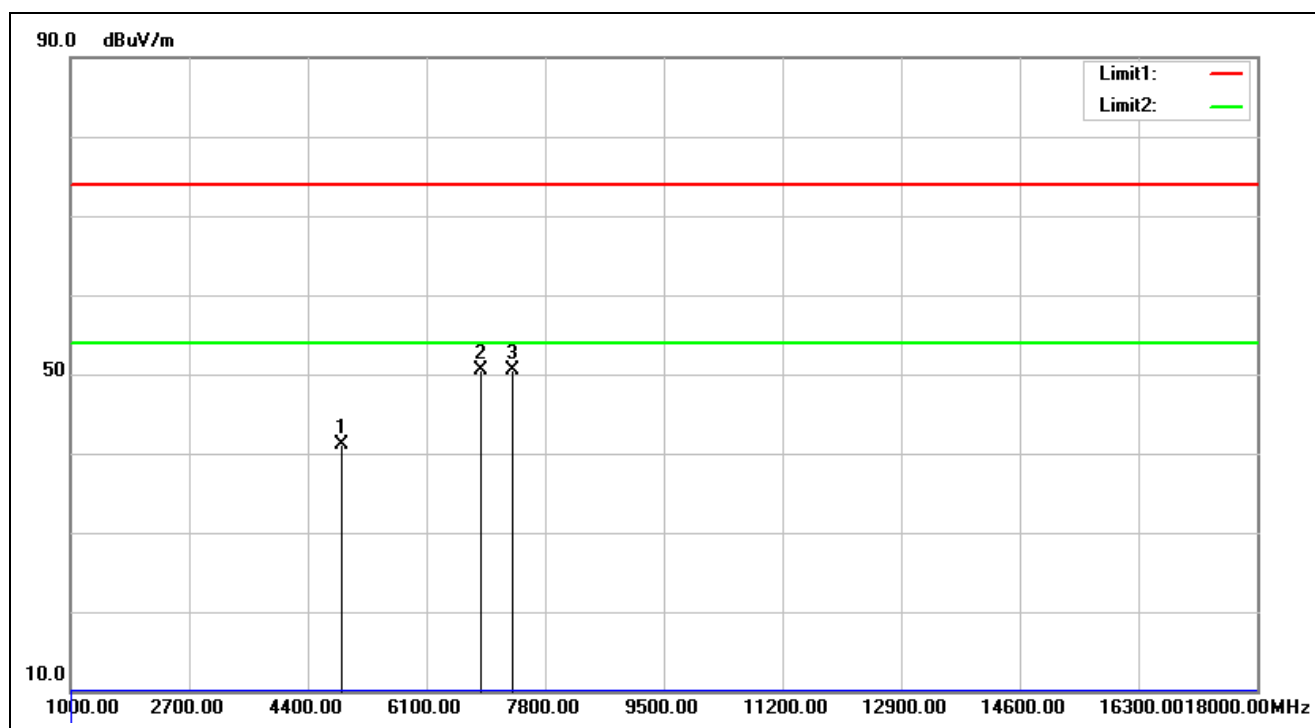
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/10/30 20:34:10
Applicant:	Microchip	Test Rating:	DC 5V
Product:	BT module	Temp.(°C)/Hum.(%)	23(°C)/52%
Model No.:	BM23SPKXY	Test Engineer:	George Yang
Test Mode:	3DH5-2402-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4804.000	-2.35	44.02	41.67	74.00	-32.33	peak			
2	6627.000	5.81	44.67	50.48	74.00	-23.52	peak	300	125	
3	7206.000	5.78	45.31	51.09	74.00	-22.91	peak			



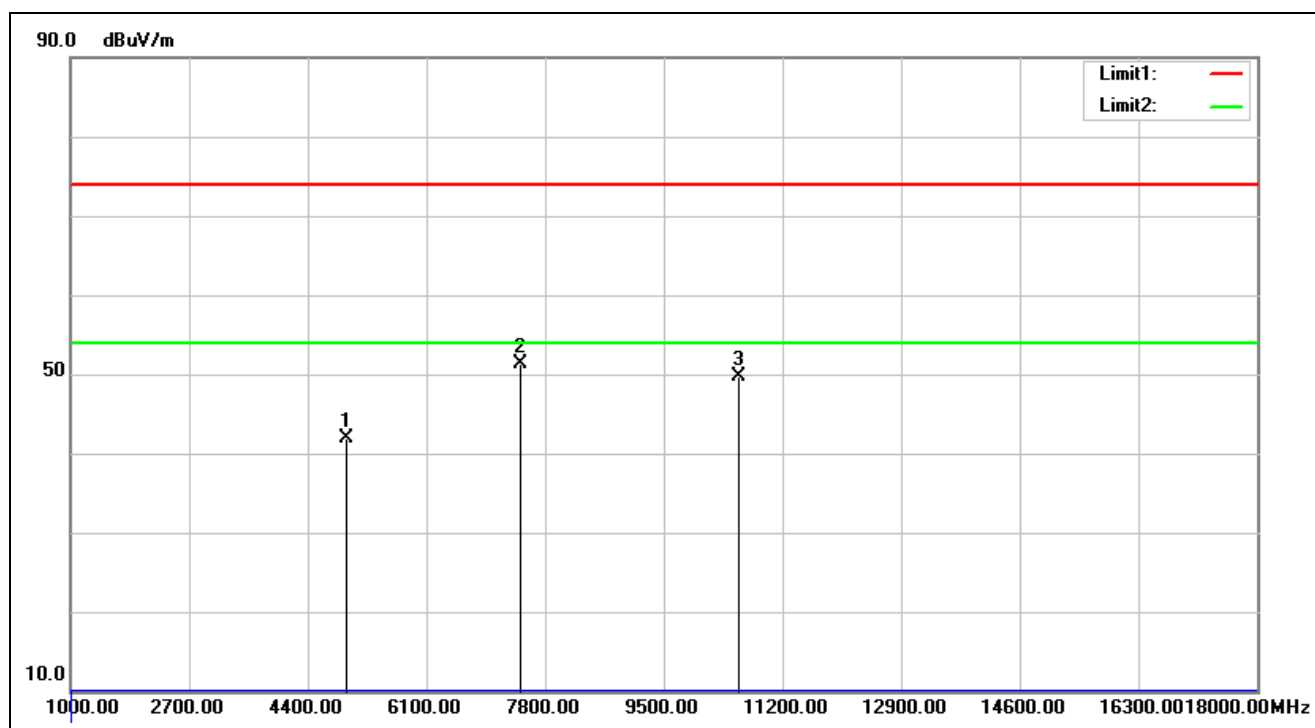
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/10/30 20:37:13
Applicant:	Microchip	Test Rating:	DC 5V
Product:	BT module	Temp.(°C)/Hum.(%)	23(°C)/52%
Model No.:	BM23SPKXY	Test Engineer:	George Yang
Test Mode:	3DH5-2441-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4882.000	-2.16	43.81	41.65	74.00	-32.35	peak			
2	6695.000	5.70	44.65	50.35	74.00	-23.65	peak	300	119	
3	7323.000	6.13	44.84	50.97	74.00	-23.03	peak			



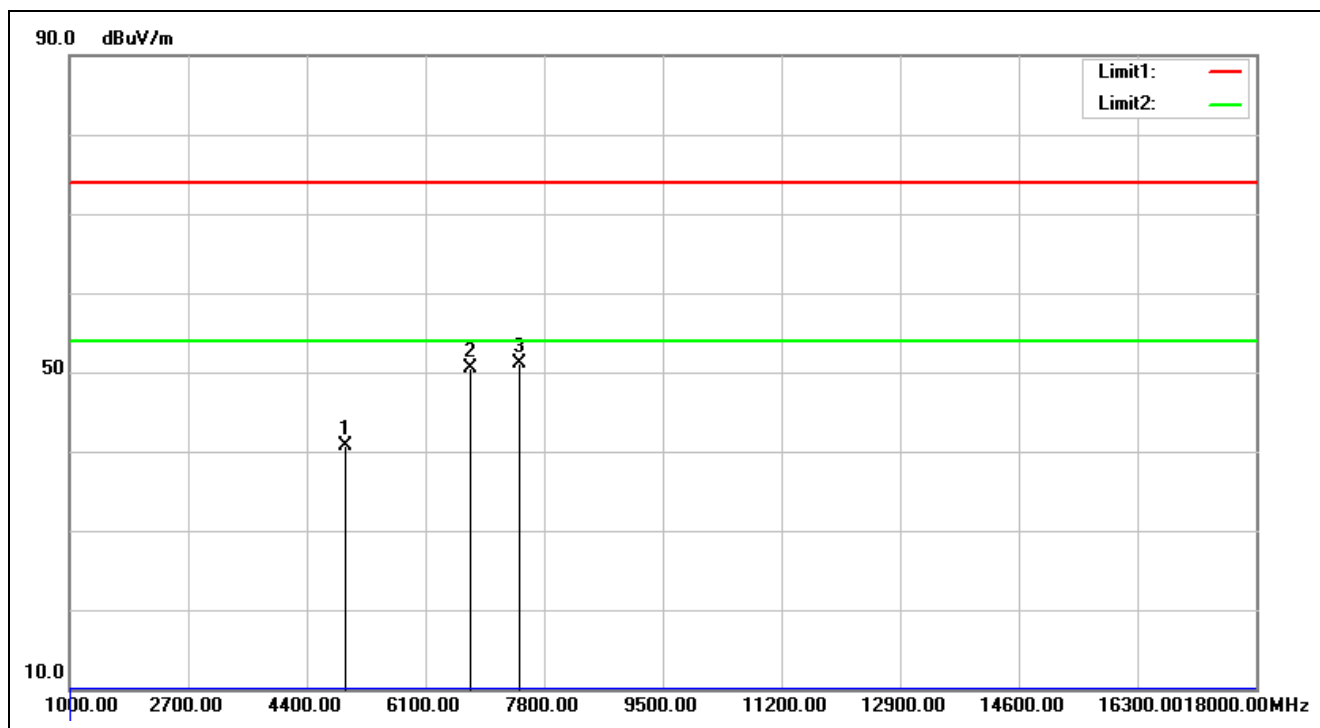
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Test item:	Radiation Emission	Test Time:	2015/10/30 20:38:16
Applicant:	Microchip	Test Rating:	DC 5V
Product:	BT module	Temp.(°C)/Hum.(%):	23(°C)/52%
Model No.:	BM23SPKXY	Test Engineer:	George Yang
Test Mode:	3DH5-2441-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4882.000	-2.16	43.24	41.08	74.00	-32.92	peak			
2	6882.000	5.37	45.10	50.47	74.00	-23.53	peak	300	299	
3	7323.000	6.13	44.47	50.60	74.00	-23.40	peak			



Service No.:	20151030	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/10/30 20:42:12
Applicant:	Microchip	Test Rating:	DC 5V
Product:	BT module	Temp.(°C)/Hum.(%):	23(°C)/52%
Model No.:	BM23SPKXY	Test Engineer:	George Yang
Test Mode:	3DH5-2480-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4960.000	-1.97	43.91	41.94	74.00	-32.06	peak			
2	7440.000	6.47	44.77	51.24	74.00	-22.76	peak			
3	10571.000	5.25	44.44	49.69	74.00	-24.31	peak	300	116	



Service No.:	20151030	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/10/30 20:43:14
Applicant:	Microchip	Test Rating:	DC 5V
Product:	BT module	Temp.(°C)/Hum.(%)	23(°C)/52%
Model No.:	BM23SPKXY	Test Engineer:	George Yang
Test Mode:	3DH5-2480-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4960.000	-1.97	42.74	40.77	74.00	-33.23	peak			
2	6746.000	5.60	44.86	50.46	74.00	-23.54	peak	300	336	
3	7440.000	6.47	44.55	51.02	74.00	-22.98	peak			

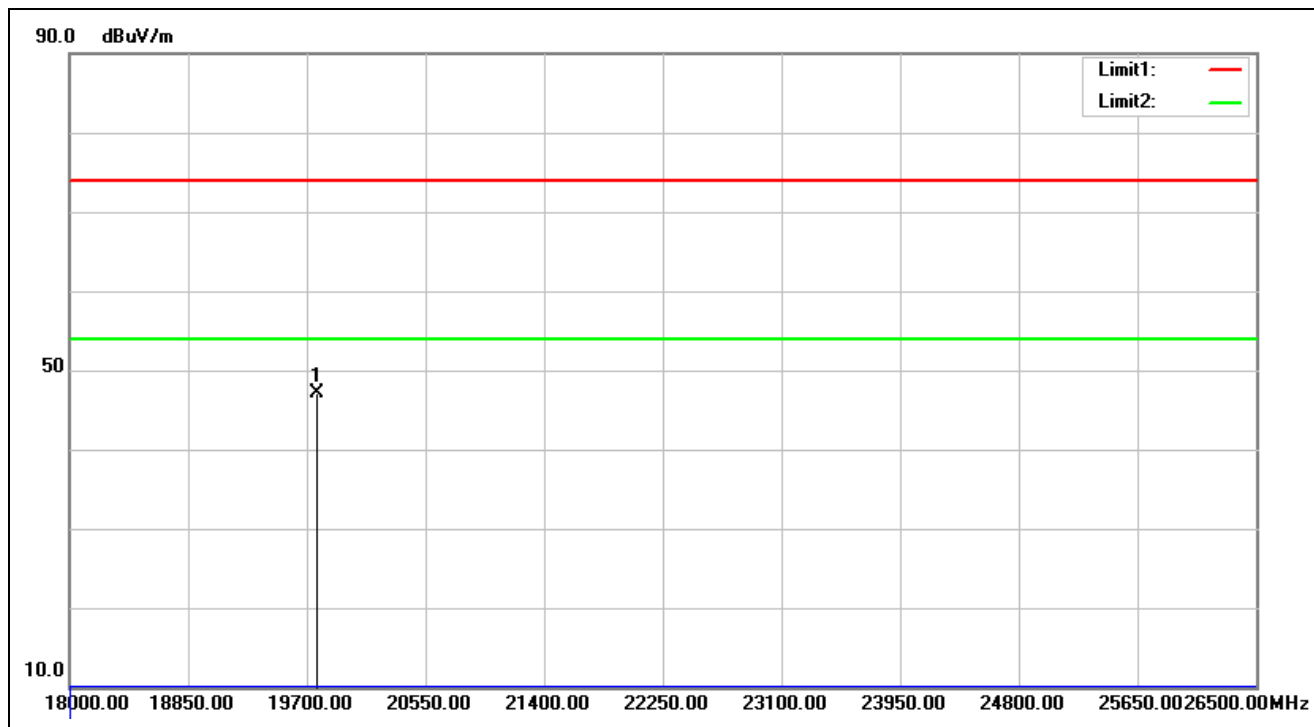
Spurious Emissions, TX Mode, 18-26G



TUV Taiwan

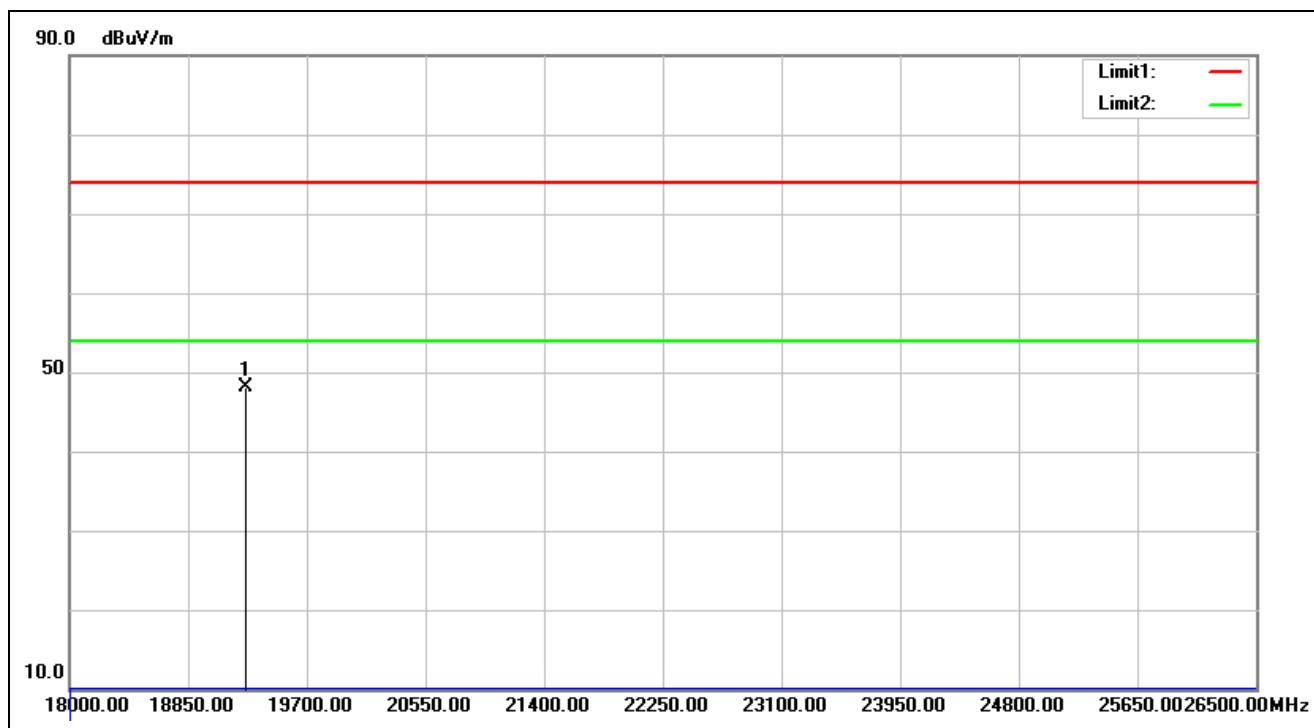
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



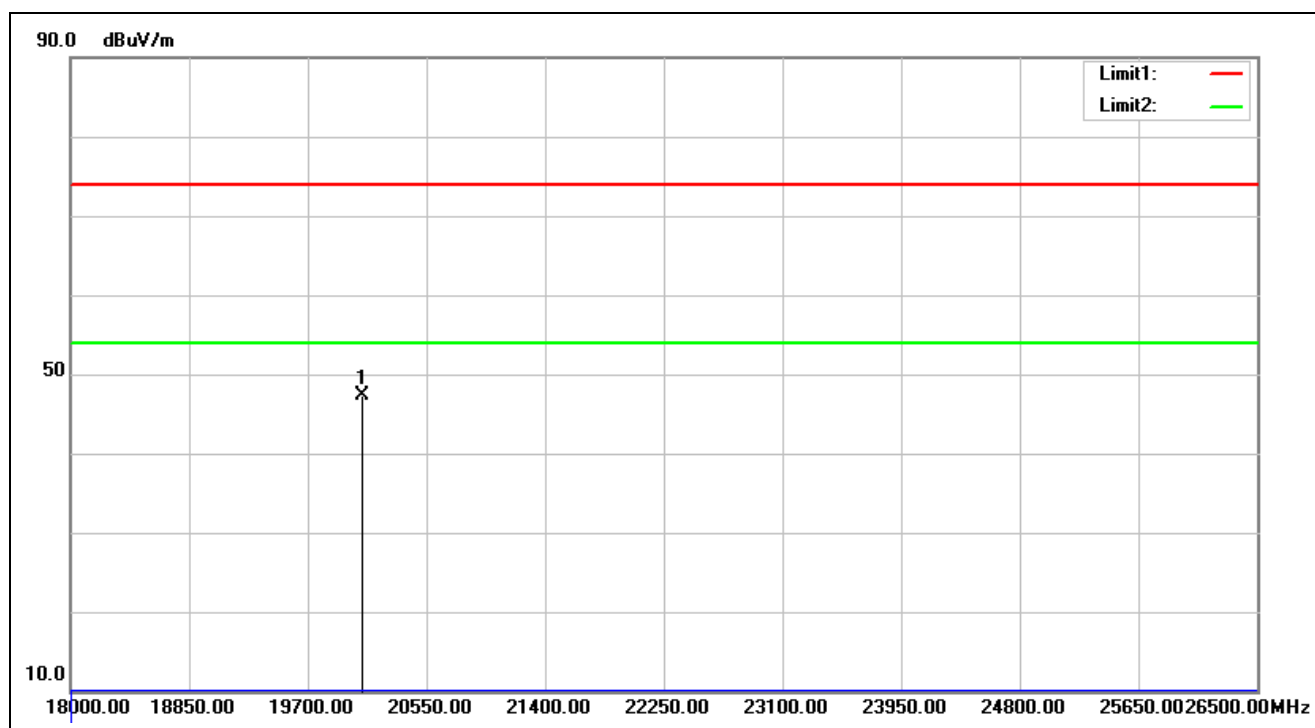
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/10/30 20:51:30
Applicant:	Microchip	Test Rating:	DC 5V
Product:	BT module	Temp.(°C)/Hum.(%):	23(°C)/52%
Model No.:	BM23SPKXY	Test Engineer:	George Yang
Test Mode:	1DH5-2402-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	19768.000	-1.09	48.17	47.08	74.00	-26.92	peak		0	



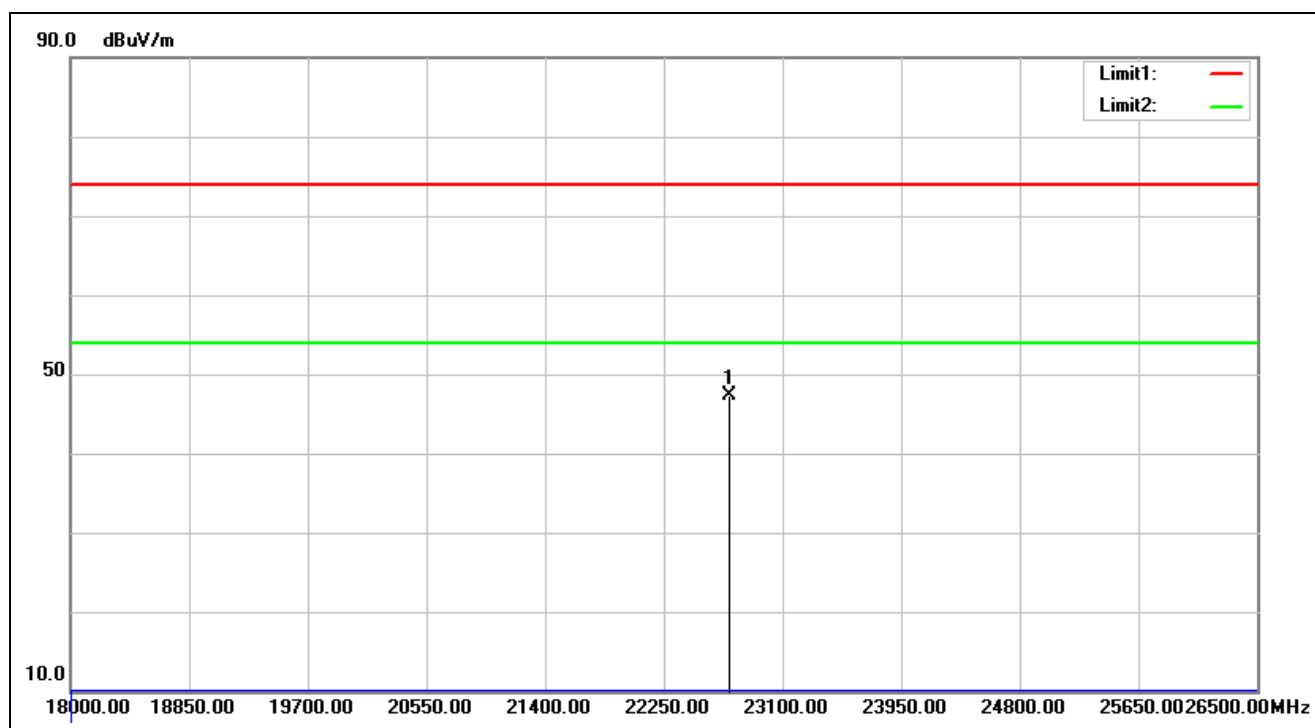
Service No.:	20151030	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/10/30 20:51:46
Applicant:	Microchip	Test Rating:	DC 5V
Product:	BT module	Temp.(°C)/Hum.(%):	23(°C)/52%
Model No.:	BM23SPKXY	Test Engineer:	George Yang
Test Mode:	1DH5-2402-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	19266.500	-1.37	49.56	48.19	74.00	-25.81	peak			



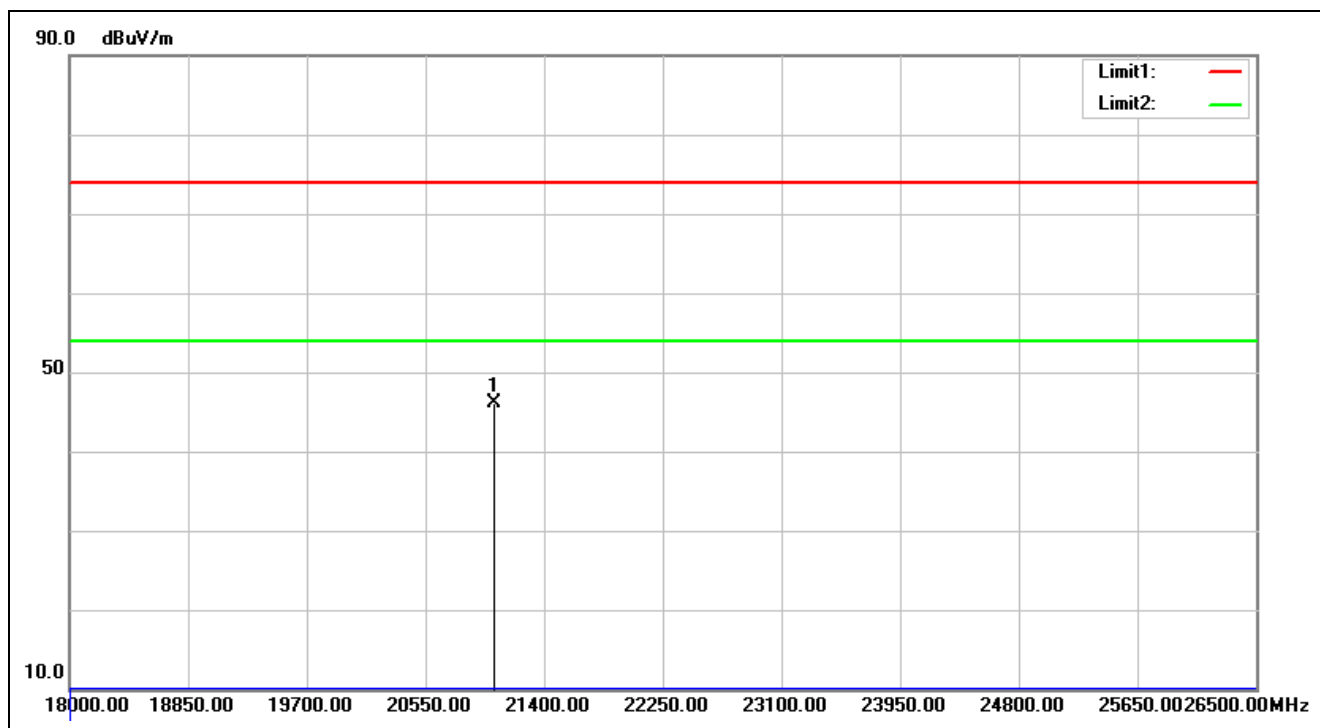
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/10/30 20:55:05
Applicant:	Microchip	Test Rating:	DC 5V
Product:	BT module	Temp.(°C)/Hum.(%):	23(°C)/52%
Model No.:	BM23SPKXY	Test Engineer:	George Yang
Test Mode:	1DH5-2441-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	20091.000	-0.90	48.19	47.29	74.00	-26.71	peak			



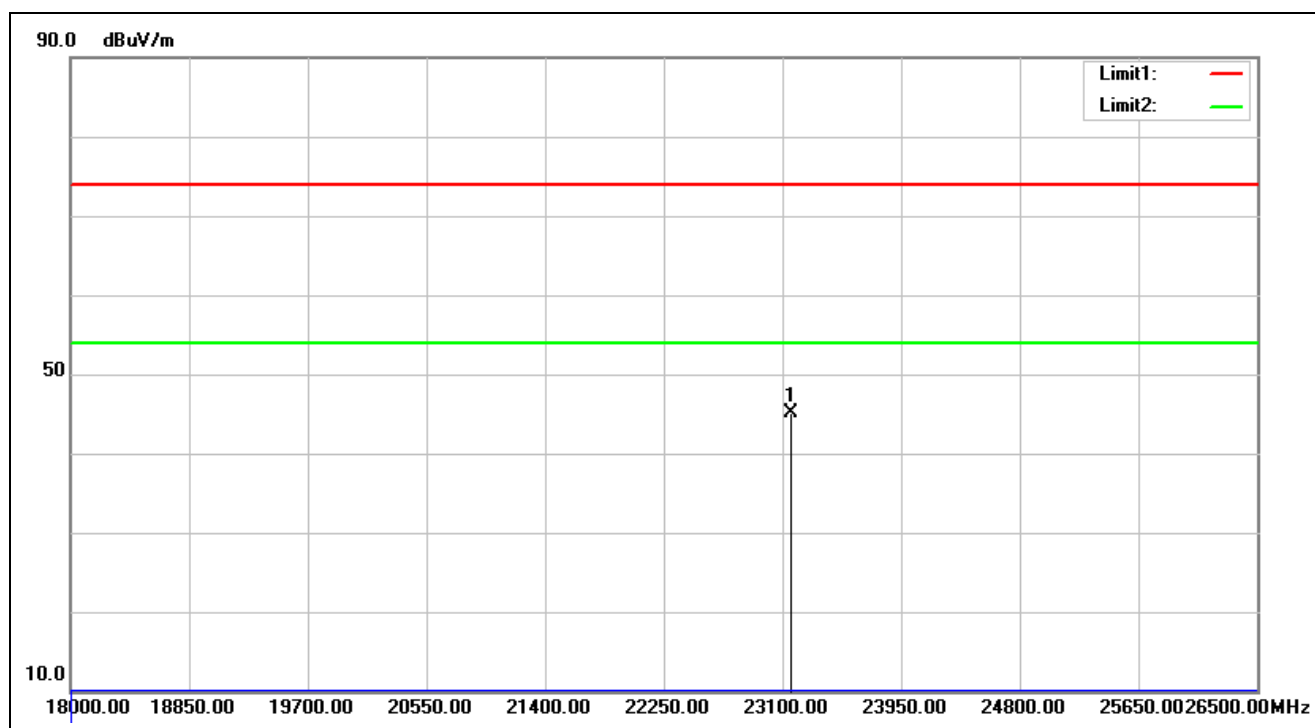
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/10/30 20:55:13
Applicant:	Microchip	Test Rating:	DC 5V
Product:	BT module	Temp.(°C)/Hum.(%):	23(°C)/52%
Model No.:	BM23SPKXY	Test Engineer:	George Yang
Test Mode:	1DH5-2441-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	22717.500	0.19	47.06	47.25	74.00	-26.75	peak			



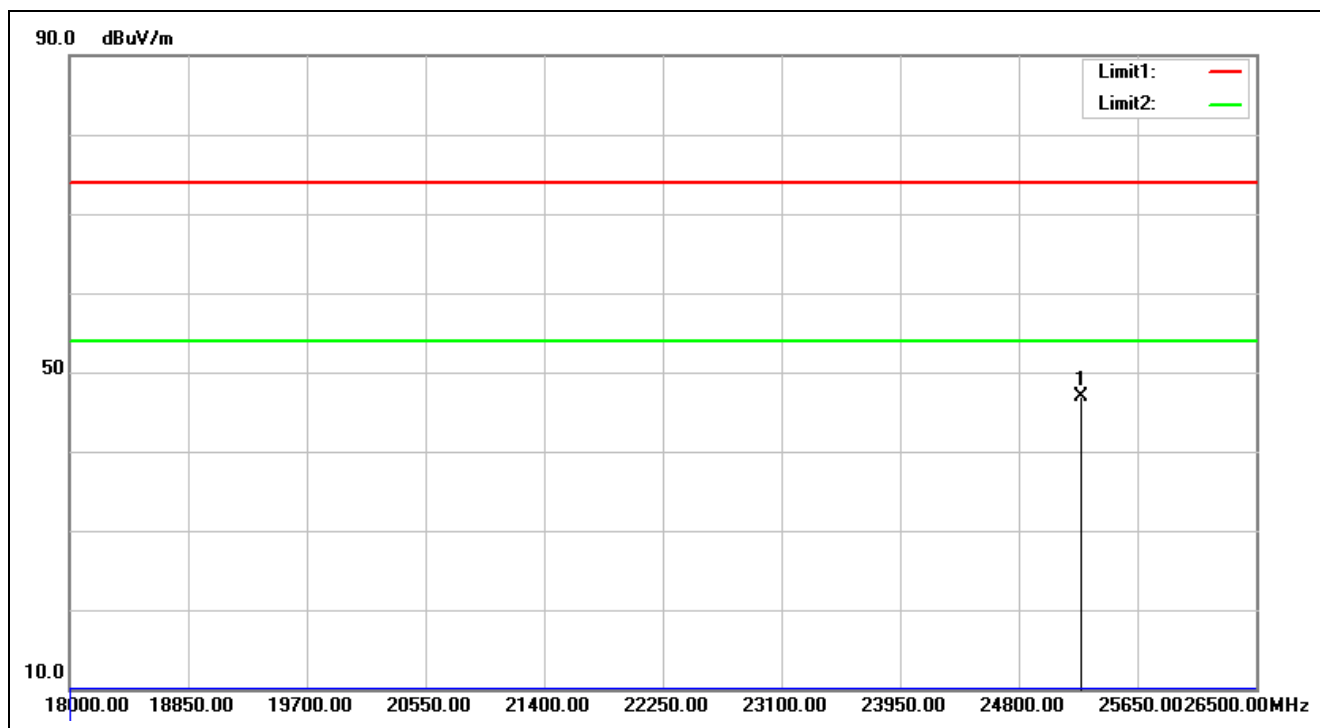
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/10/30 20:55:33
Applicant:	Microchip	Test Rating:	DC 5V
Product:	BT module	Temp.(°C)/Hum.(%):	23(°C)/52%
Model No.:	BM23SPKXY	Test Engineer:	George Yang
Test Mode:	1DH5-2480-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21043.000	-0.47	46.52	46.05	74.00	-27.95	peak			



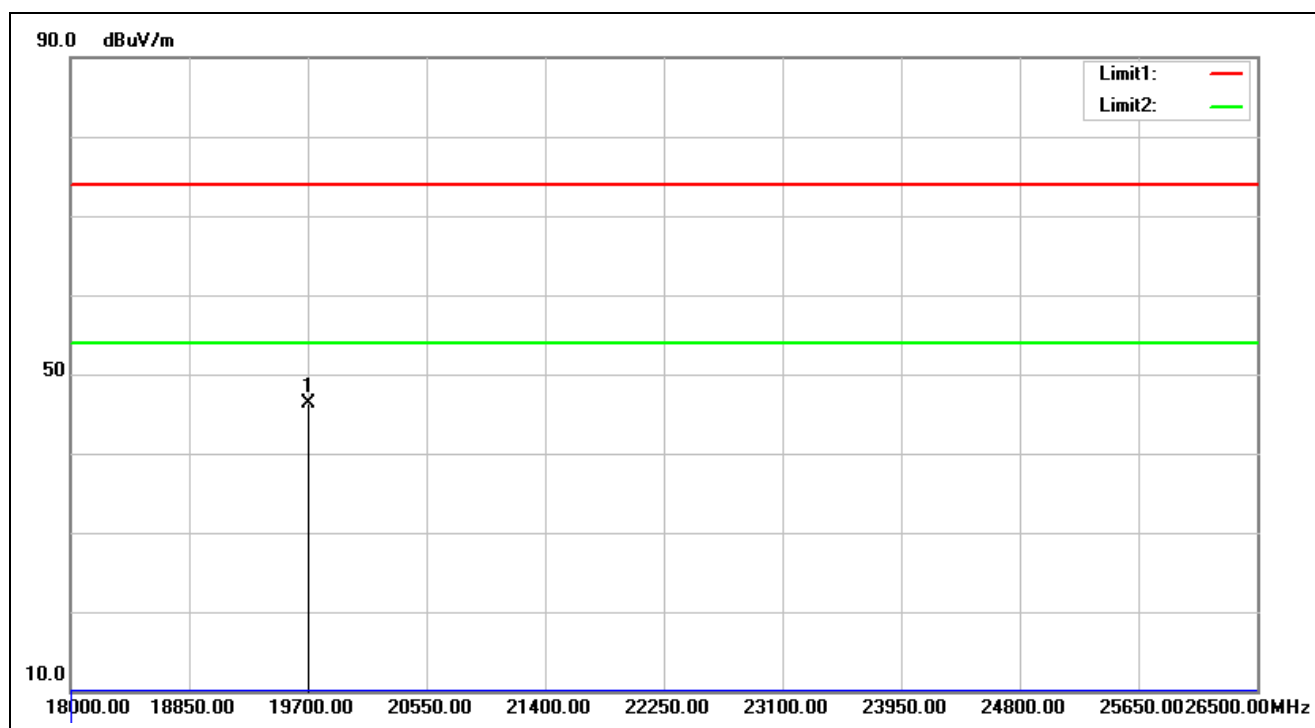
Service No.:	20151030	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/10/30 20:55:43
Applicant:	Microchip	Test Rating:	DC 5V
Product:	BT module	Temp.(°C)/Hum.(%):	23(°C)/52%
Model No.:	BM23SPKXY	Test Engineer:	George Yang
Test Mode:	1DH5-2480-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	23159.500	0.79	44.35	45.14	74.00	-28.86	peak			



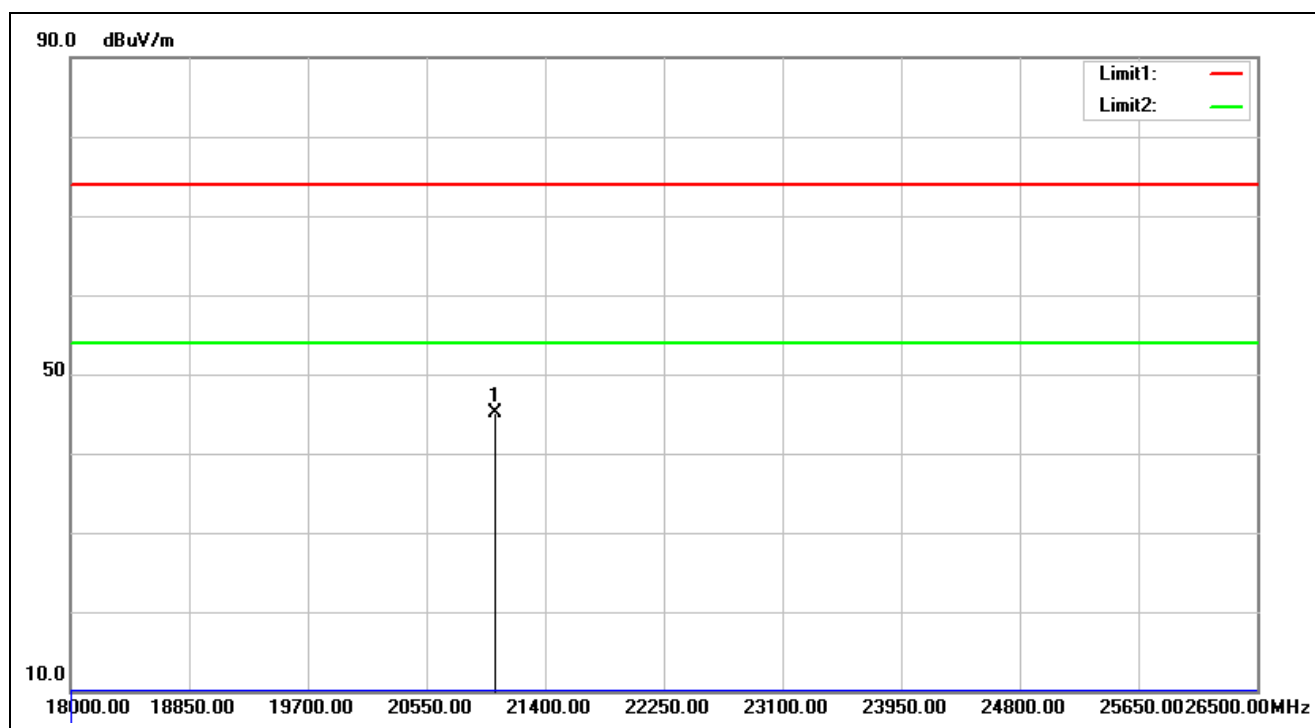
Service No.:	20151030	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/10/30 20:55:59
Applicant:	Microchip	Test Rating:	DC 5V
Product:	BT module	Temp.(°C)/Hum.(%):	23(°C)/52%
Model No.:	BM23SPKXY	Test Engineer:	George Yang
Test Mode:	3DH5-2402-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	25242.000	1.70	45.27	46.97	74.00	-27.03	peak			



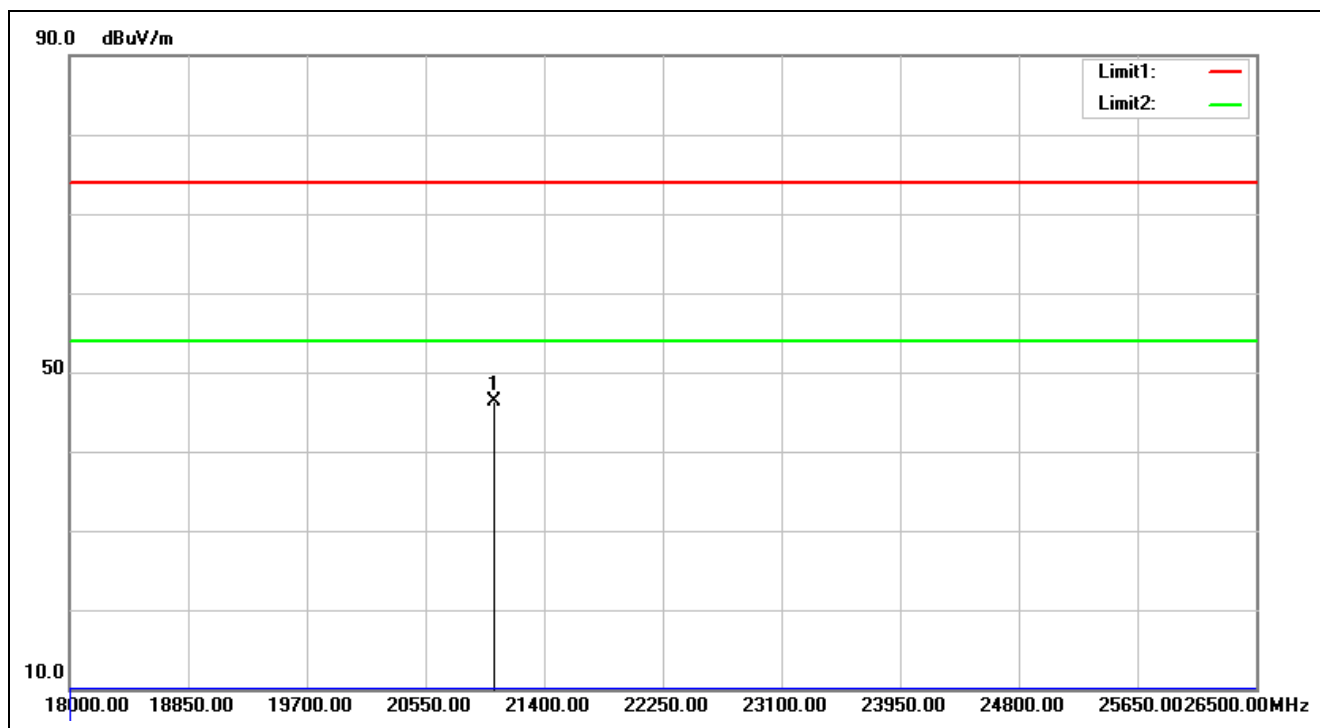
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/10/30 20:56:08
Applicant:	Microchip	Test Rating:	DC 5V
Product:	BT module	Temp.(°C)/Hum.(%):	23(°C)/52%
Model No.:	BM23SPKXY	Test Engineer:	George Yang
Test Mode:	3DH5-2402-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	19708.500	-1.11	47.33	46.22	74.00	-27.78	peak			



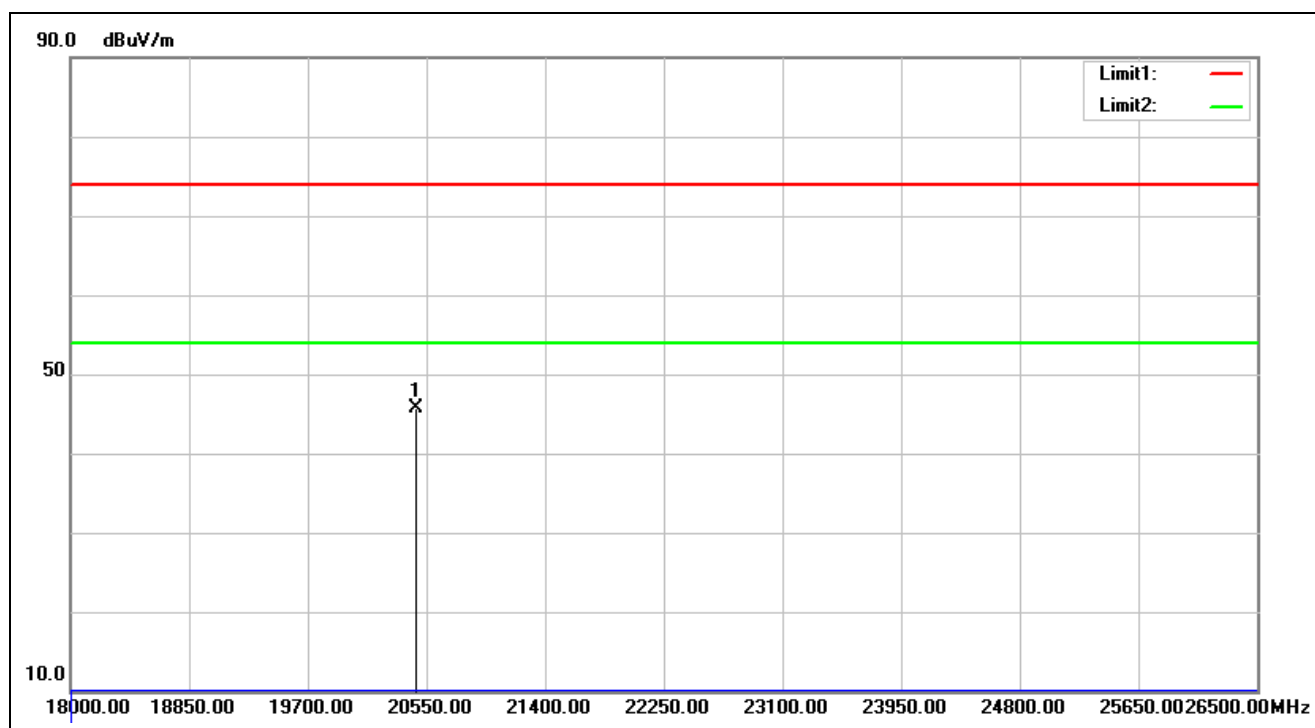
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/10/30 20:56:22
Applicant:	Microchip	Test Rating:	DC 5V
Product:	BT module	Temp.(°C)/Hum.(%):	23(°C)/52%
Model No.:	BM23SPKXY	Test Engineer:	George Yang
Test Mode:	3DH5-2441-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21043.000	-0.47	45.52	45.05	74.00	-28.95	peak			



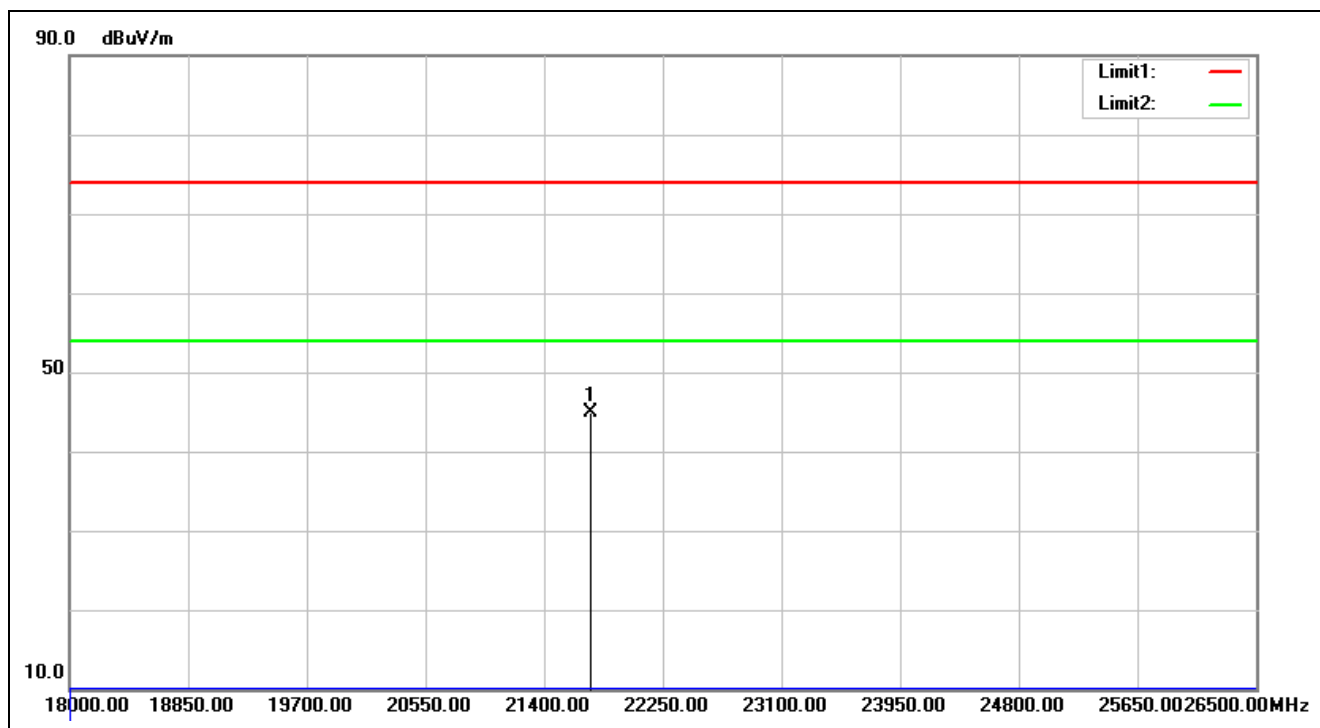
Service No.:	20151030	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/10/30 20:56:34
Applicant:	Microchip	Test Rating:	DC 5V
Product:	BT module	Temp.(°C)/Hum.(%):	23(°C)/52%
Model No.:	BM23SPKXY	Test Engineer:	George Yang
Test Mode:	3DH5-2441-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21043.000	-0.47	46.79	46.32	74.00	-27.68	peak			



Service No.:	20151030	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/10/30 20:56:55
Applicant:	Microchip	Test Rating:	DC 5V
Product:	BT module	Temp.(°C)/Hum.(%):	23(°C)/52%
Model No.:	BM23SPKXY	Test Engineer:	George Yang
Test Mode:	3DH5-2480-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	20473.500	-0.70	46.32	45.62	74.00	-28.38	peak			



Service No.:	20151030	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/10/30 20:57:06
Applicant:	Microchip	Test Rating:	DC 5V
Product:	BT module	Temp.(°C)/Hum.(%):	23(°C)/52%
Model No.:	BM23SPKXY	Test Engineer:	George Yang
Test Mode:	3DH5-2480-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21731.500	-1.25	46.19	44.94	74.00	-29.06	peak			

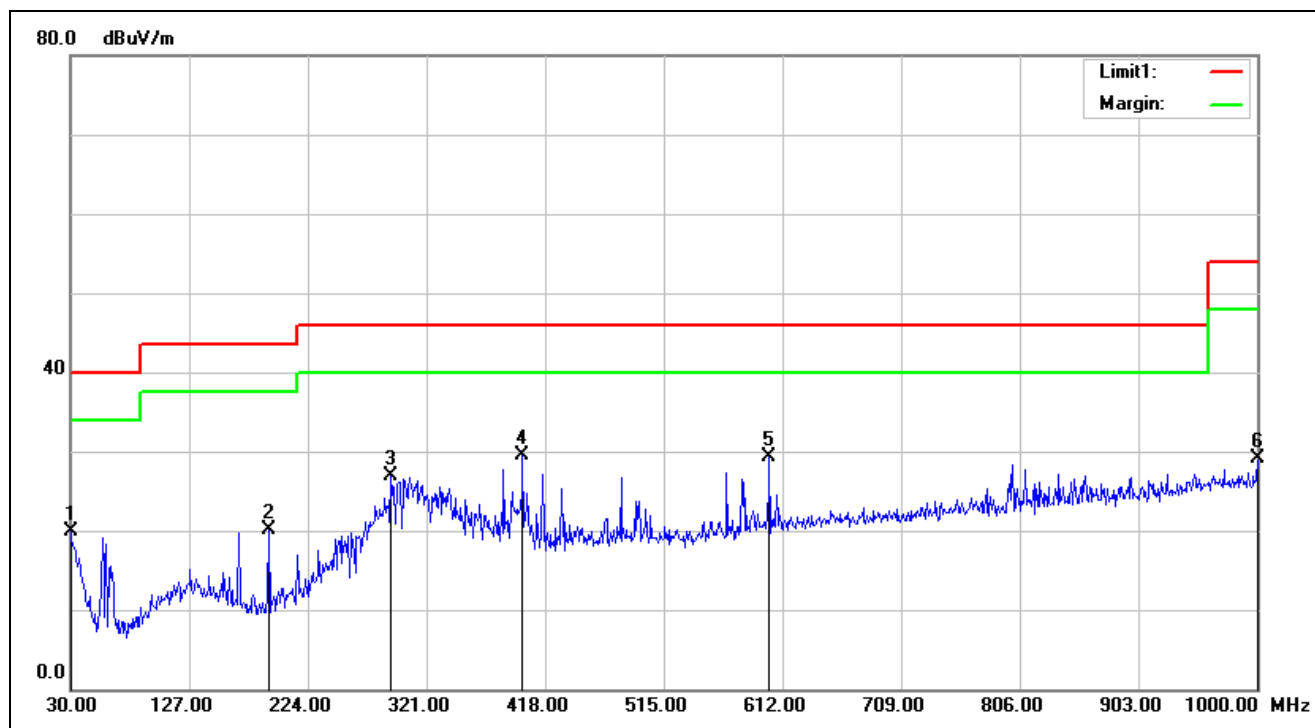
Spurious Emissions, TX Mode, 30M-1G



TUV Taiwan

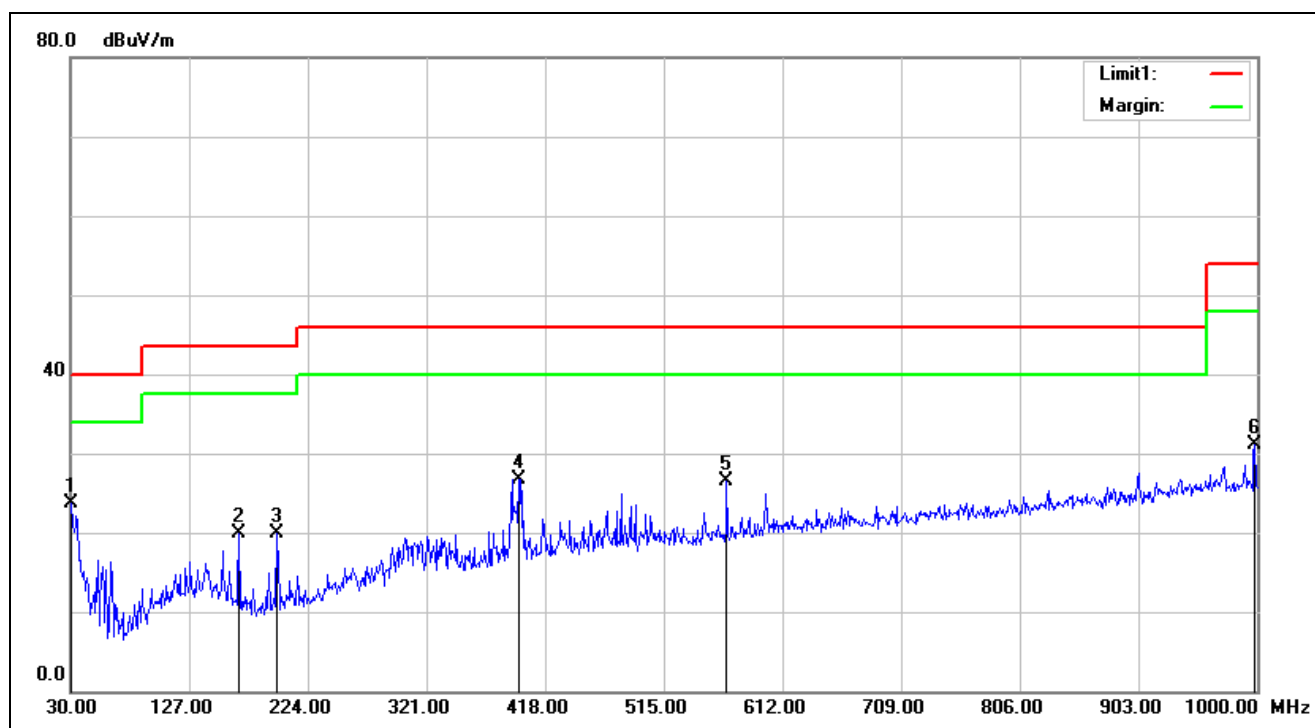
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



Service No.:	20151030	Test Distance:	3m
Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/10/30 20:00:32
Applicant:	Microchip	Test Rating:	DC 5V
Product:	BT module	Temp.(°C)/Hum.(%):	23(°C)/52%
Model No.:	BM23SPKXY	Test Engineer:	George Yang
Test Mode:	1DH5-2441-TX		
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	-5.85	25.67	19.82	40.00	-20.18	QP	100	88	
2	191.9900	-15.27	35.32	20.05	43.50	-23.45	QP	100	221	
3	291.9000	-10.60	37.47	26.87	46.00	-19.13	QP	100	232	
4	399.5700	-8.69	38.23	29.54	46.00	-16.46	QP	100	221	
5	601.3300	-5.97	35.24	29.27	46.00	-16.73	QP	100	229	
6	1000.0000	0.01	29.07	29.08	54.00	-24.92	QP	100	338	



Service No.:	20151030	Test Distance:	3m
Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/10/30 20:01:36
Applicant:	Microchip	Test Rating:	DC 5V
Product:	BT module	Temp.(°C)/Hum.(%)	23(°C)/52%
Model No.:	BM23SPKXY	Test Engineer:	George Yang
Test Mode:	1DH5-2441-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.9700	-6.39	30.15	23.76	40.00	-16.24	QP	100	53	
2	167.7400	-14.60	34.58	19.98	43.50	-23.52	QP	100	53	
3	198.7800	-14.81	34.70	19.89	43.50	-23.61	QP	100	184	
4	396.6600	-8.72	35.50	26.78	46.00	-19.22	QP	100	216	
5	566.4100	-6.66	33.16	26.50	46.00	-19.50	QP	100	171	
6	998.0600	-0.01	31.03	31.02	54.00	-22.98	QP	100	210	