

Test Report No.50058395 001

Appendix D: Radiated and Mains Spurious Emission Data

(File: 50058395AppendixD)

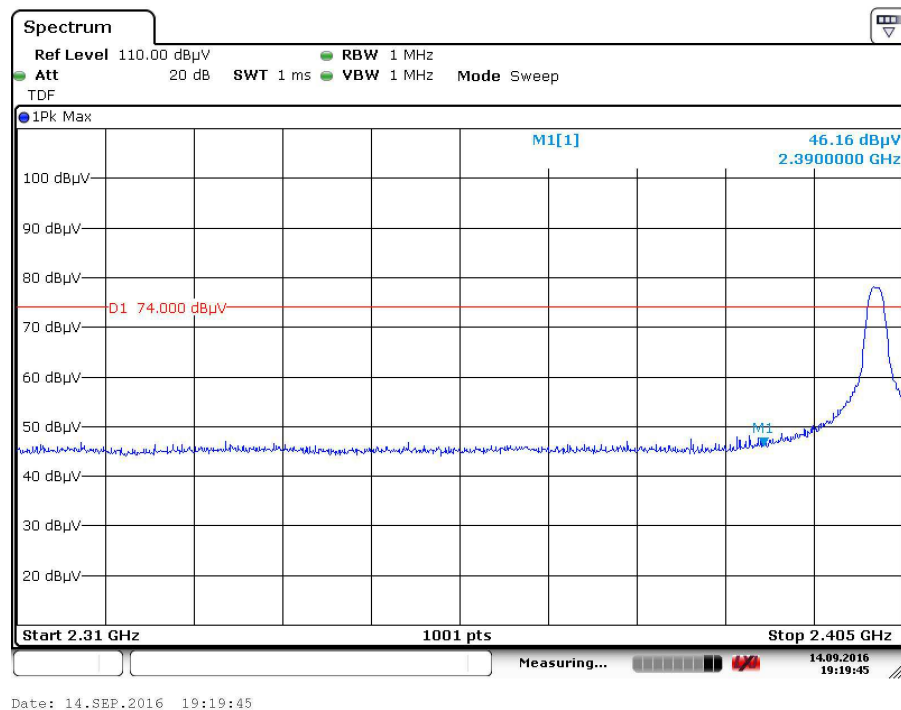
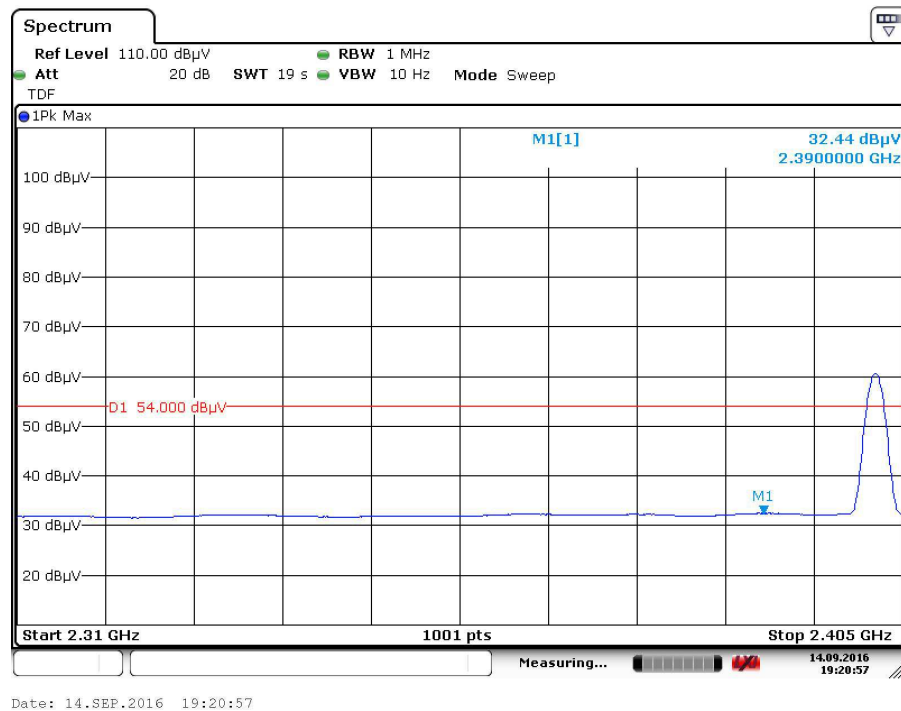
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Spurious Emissions, Band Edges, 2.35-2.5G

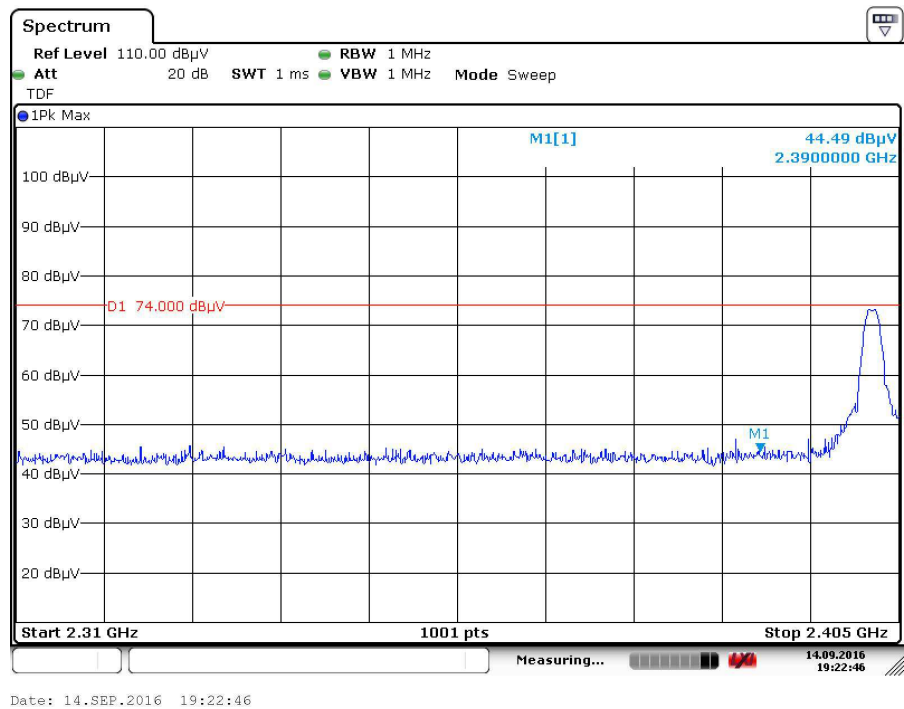
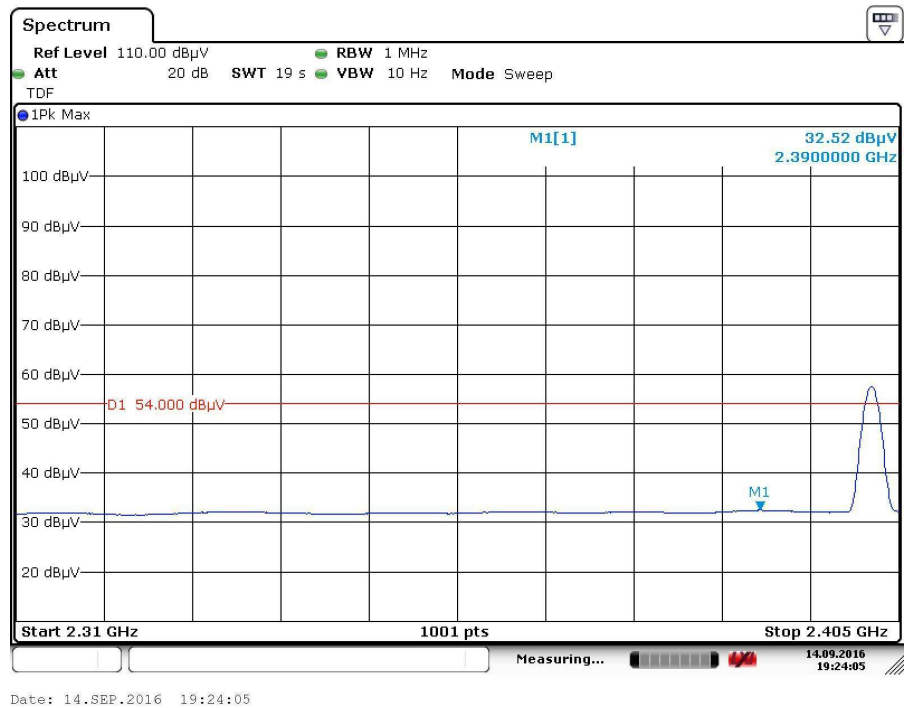
Radiated Bandedge (GFSK)

Low Channel (Hor)



Spurious Emissions, Band Edge, 2.35-2.5G

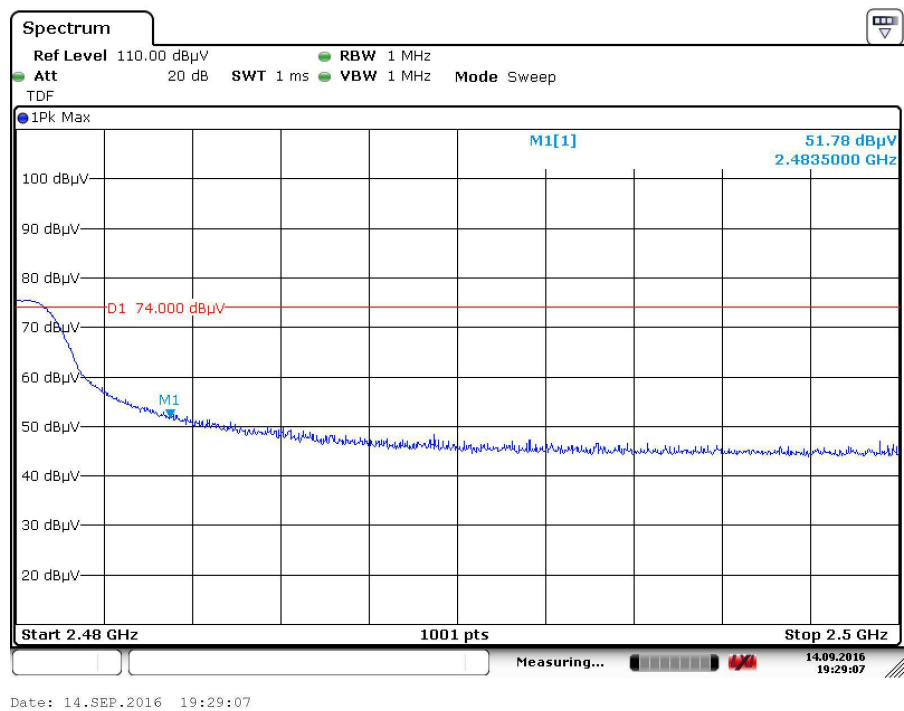
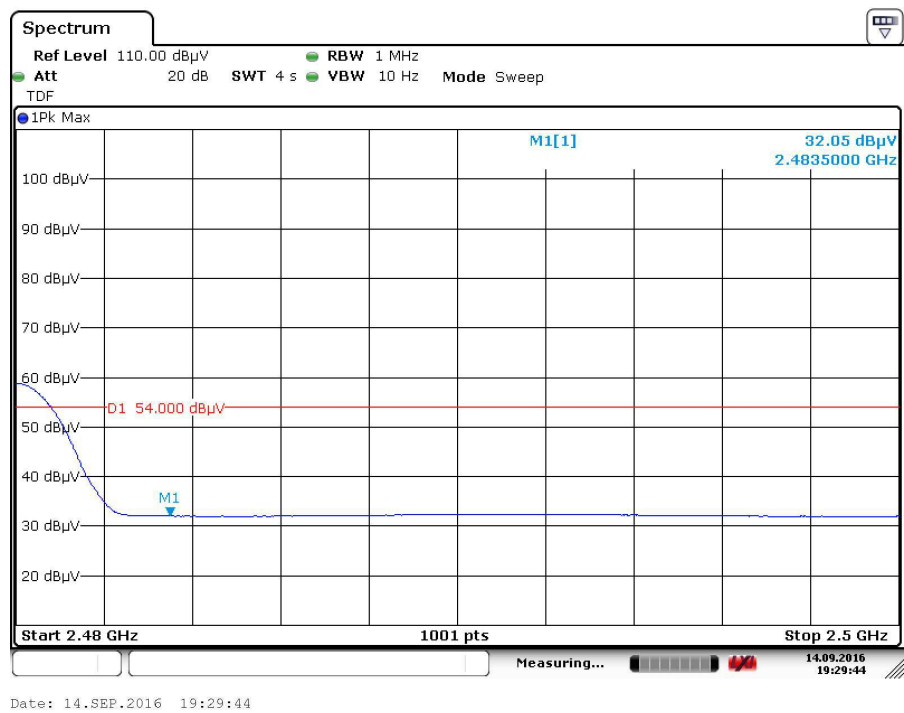
Low Channel (Ver)



Spurious Emissions, Band Edge, 2.35-2.5G

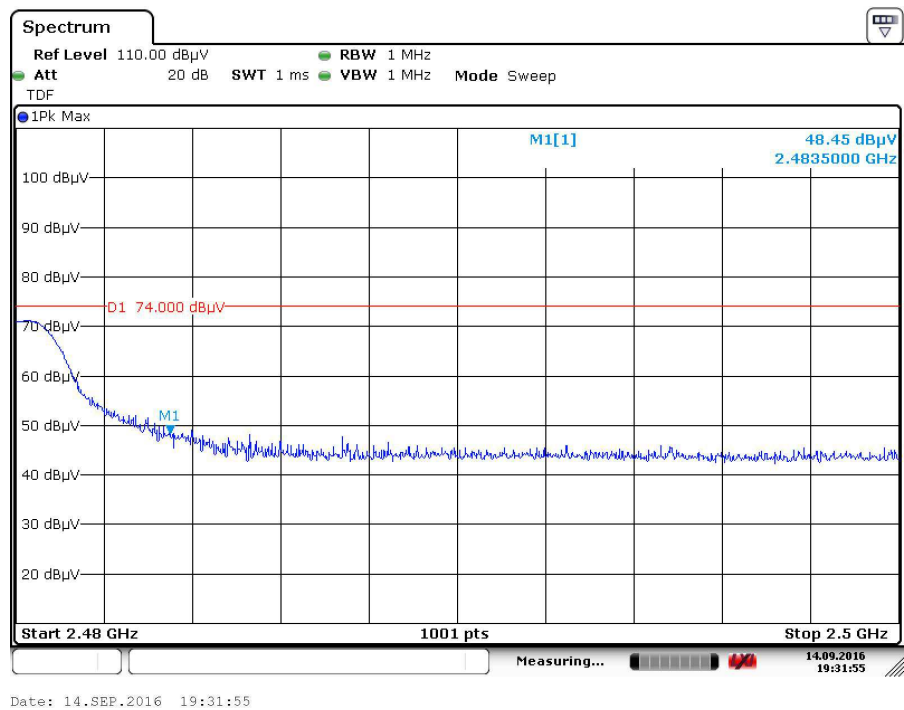
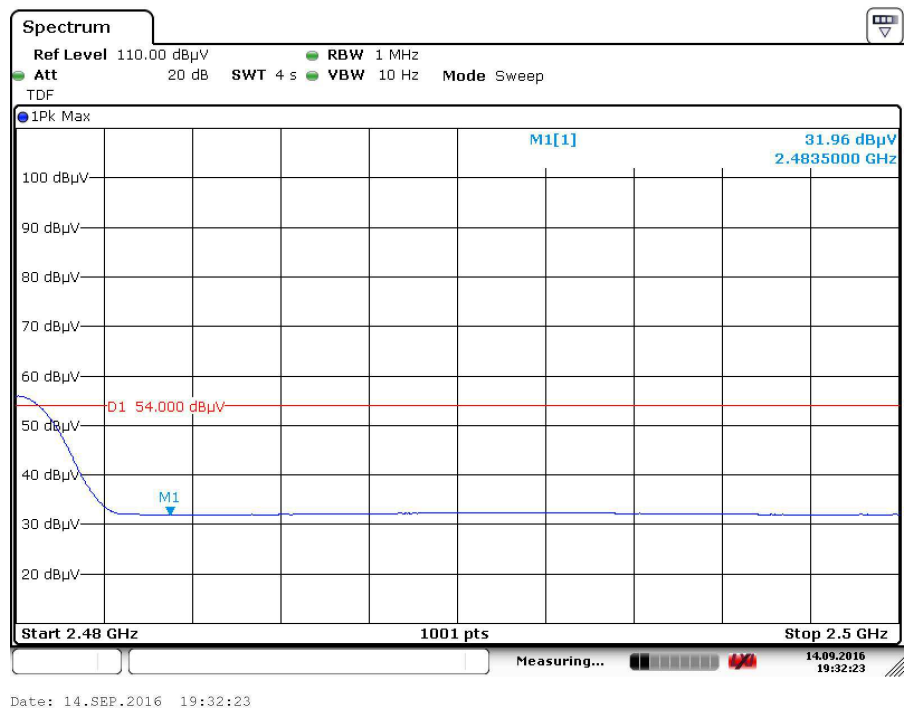
Radiated Bandedge (GFSK)

High Channel (Hor)



Spurious Emissions, Band Edge, 2.35-2.5G

High Channel (Ver)



Spurious Emissions, Band Edge, 2.35-2.5G

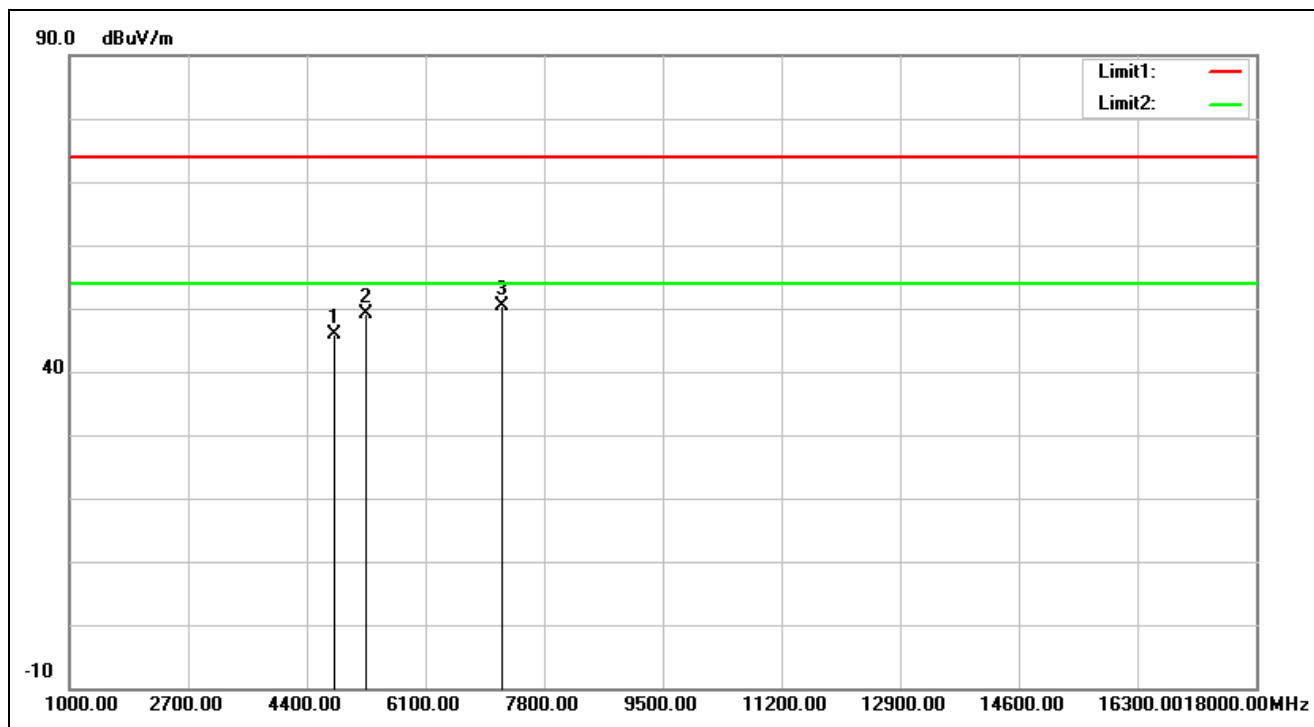
Spurious Emissions, TX Mode, 1-18G



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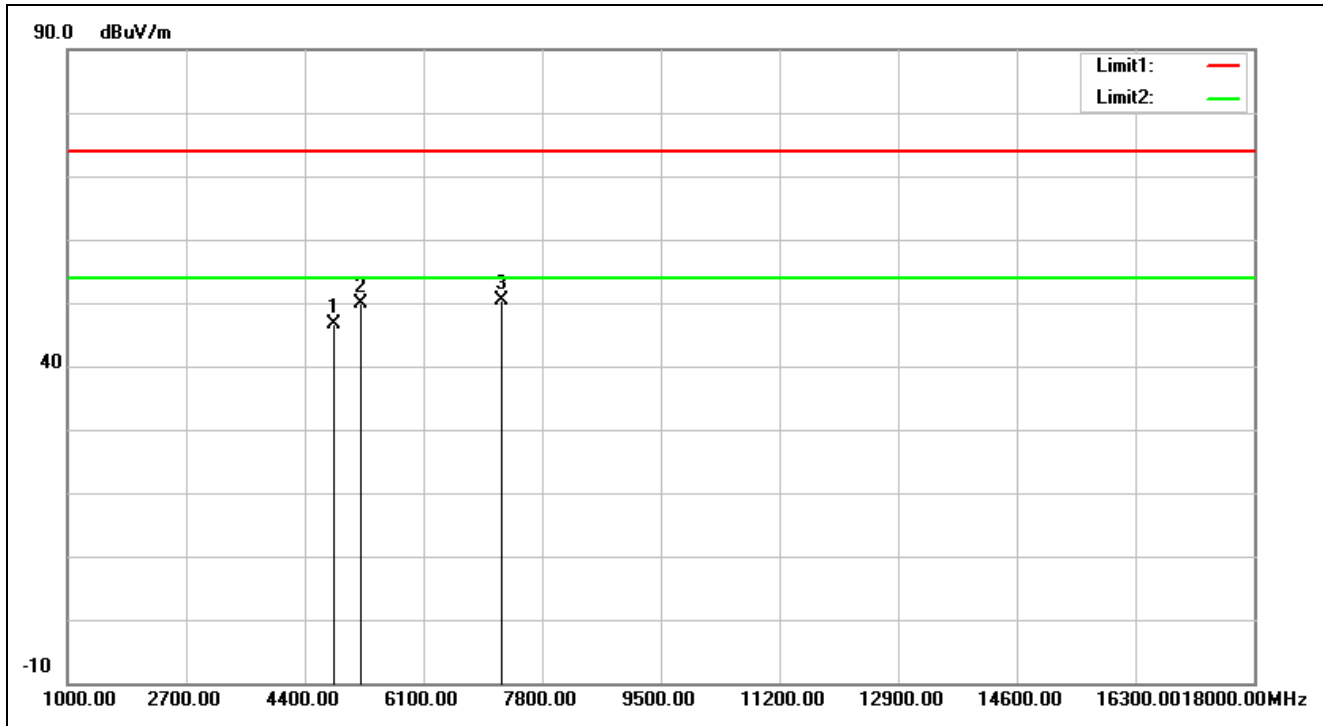
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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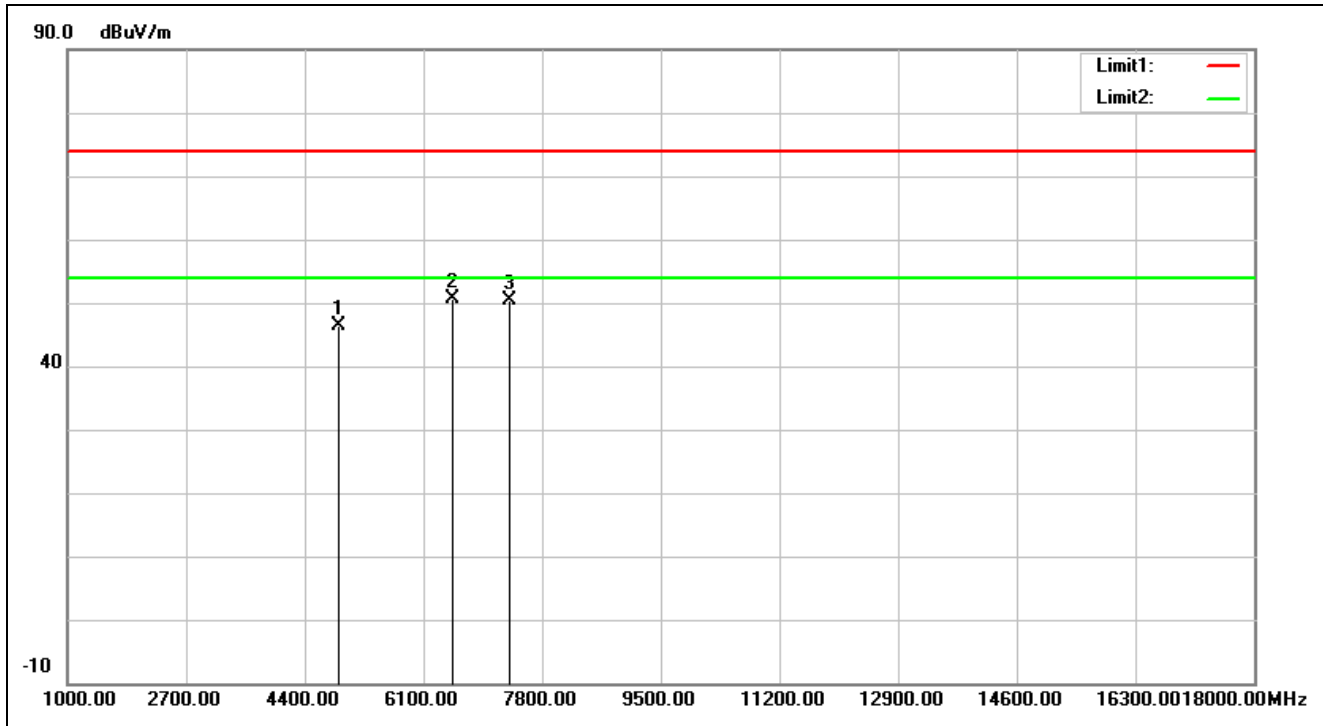
Service No.:	114055224(090)FCC	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/9/14 19:50:30
Applicant:	Adonit	Test Rating:	DC 3V
Product:	Adonit Snap	Temp.(°C)/Hum.(%)	24.2(°C)/58%
Model No.:	090	Test Engineer:	Sam Su
Test Mode:	TX-2402		
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	-2.64	48.64	46.00	74.00	-28.00	peak			
2	5250.000	-0.89	50.04	49.15	74.00	-24.85	peak	100	92	
3	7206.000	5.57	44.84	50.41	74.00	-23.59	peak			



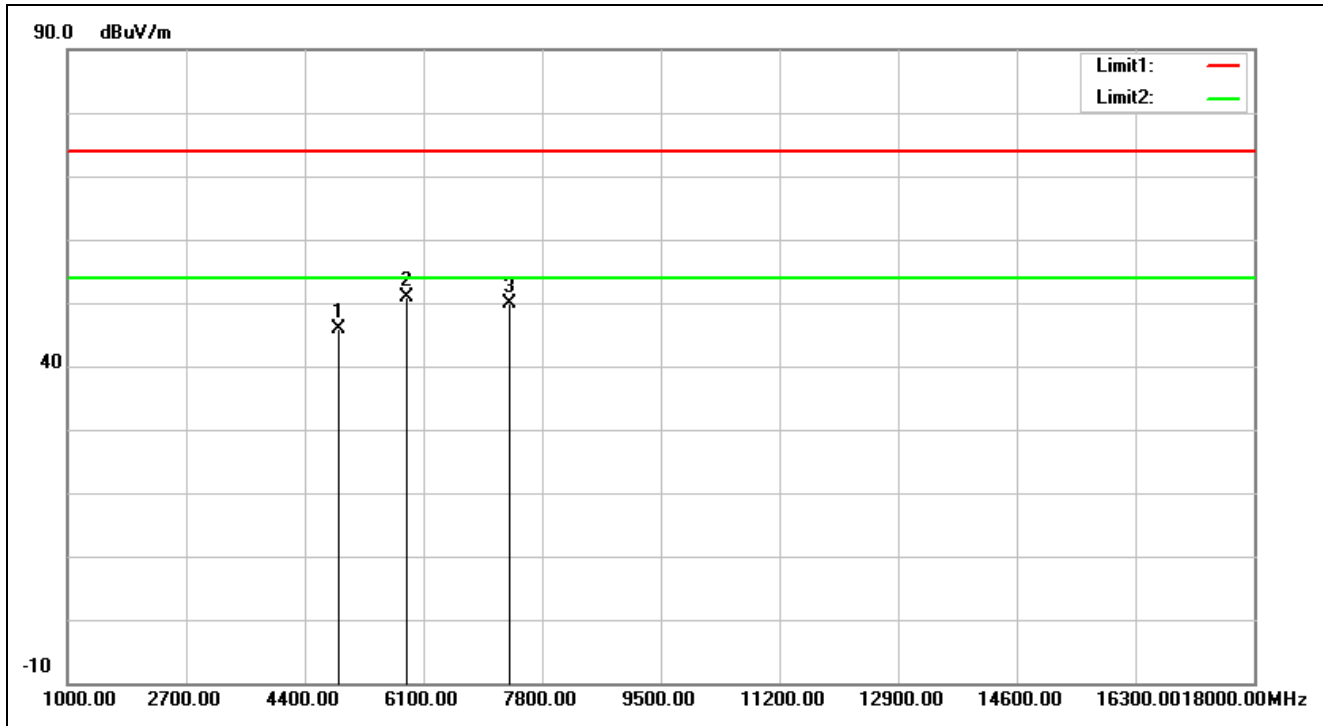
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/9/14 19:51:33
Applicant:	Adonit	Test Rating:	DC 3V
Product:	Adonit Snap	Temp.(°C)/Hum.(%)	24.2(°C)/58%
Model No.:	090	Test Engineer:	Sam Su
Test Mode:	TX-2402		
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	-2.64	49.22	46.58	74.00	-27.42	peak			
2	5199.000	-1.15	51.03	49.88	74.00	-24.12	peak	100	119	
3	7206.000	5.57	44.82	50.39	74.00	-23.61	peak			



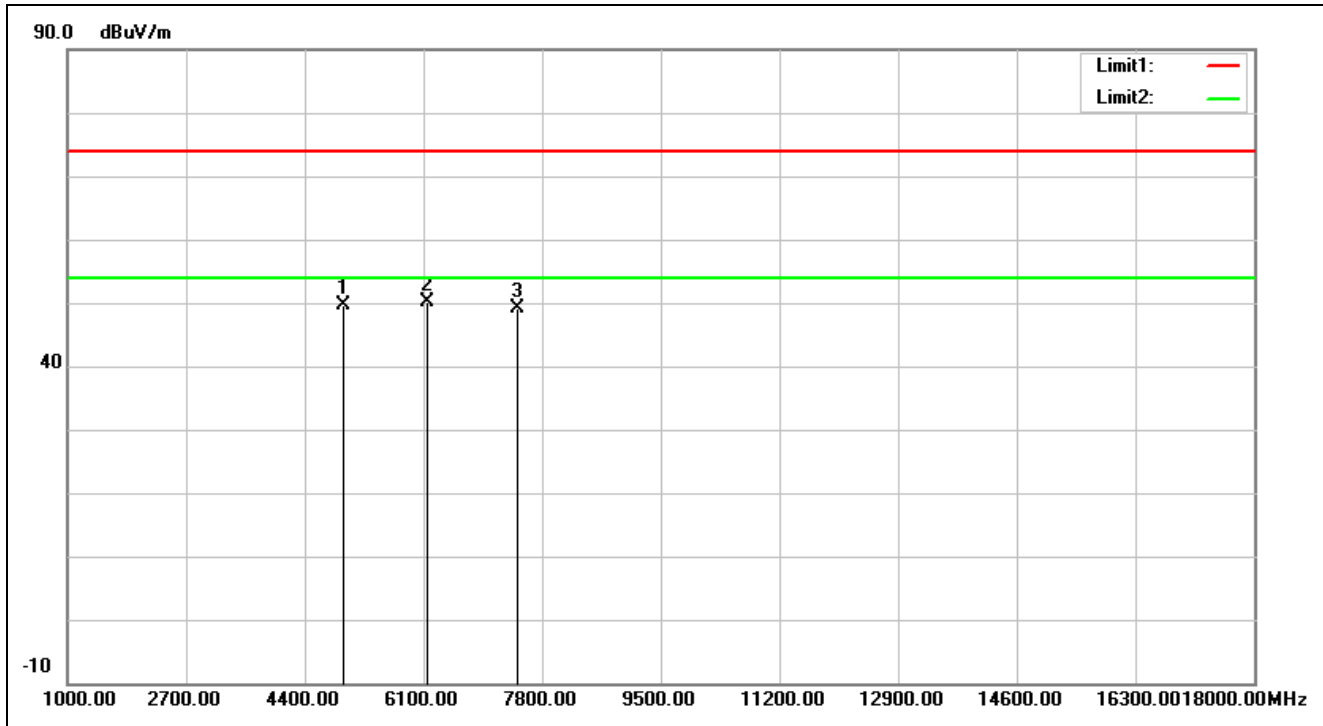
Service No.:	114055224(090)FCC	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/9/14 19:45:31
Applicant:	Adonit	Test Rating:	DC 3V
Product:	Adonit Snap	Temp.(°C)/Hum.(%):	24.2(°C)/58%
Model No.:	090	Test Engineer:	Sam Su
Test Mode:	TX-2440		
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	-2.47	48.90	46.43	74.00	-27.57	peak			
2	6508.000	5.50	45.16	50.66	74.00	-23.34	peak	100	130	
3	7323.000	5.91	44.58	50.49	74.00	-23.51	peak			



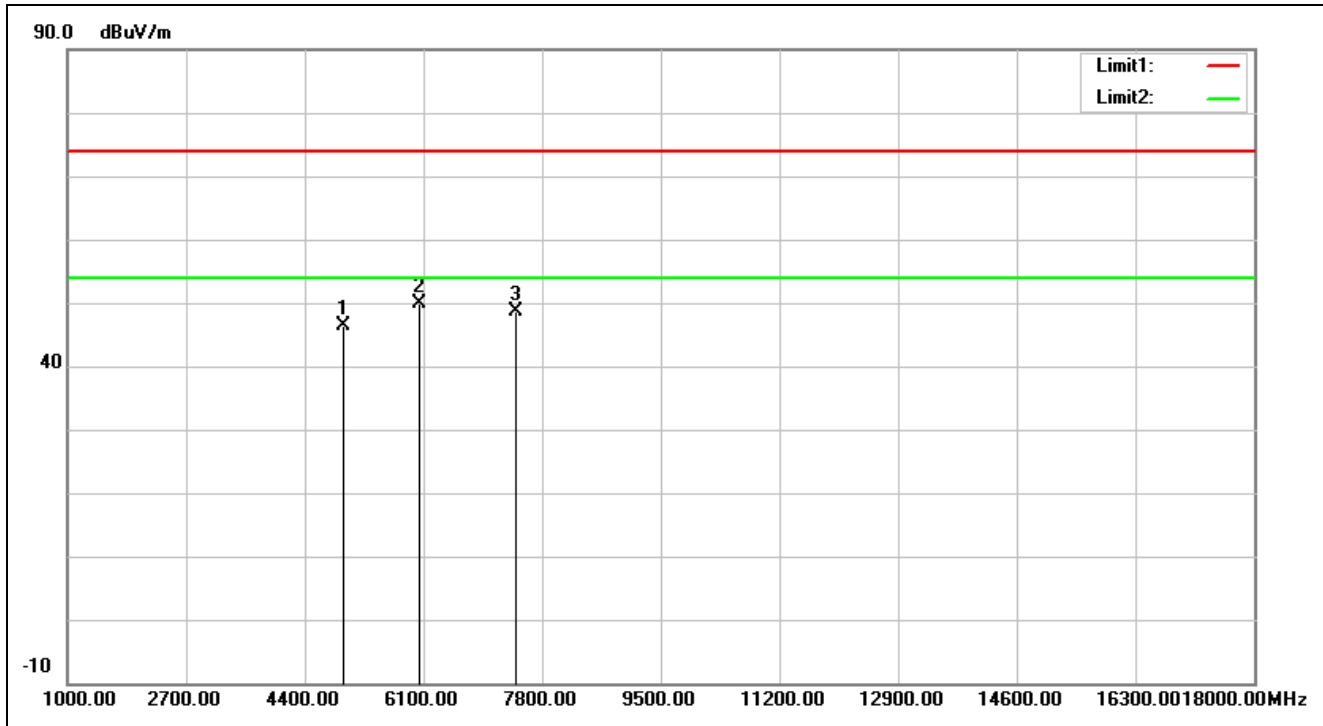
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/9/14 19:46:34
Applicant:	Adonit	Test Rating:	DC 3V
Product:	Adonit Snap	Temp.(°C)/Hum.(%)	24.2(°C)/58%
Model No.:	090	Test Engineer:	Sam Su
Test Mode:	TX-2440		
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	-2.47	48.31	45.84	74.00	-28.16	peak			
2	5862.000	2.97	47.82	50.79	74.00	-23.21	peak	100	219	
3	7323.000	5.91	44.07	49.98	74.00	-24.02	peak			



Service No.:	114055224(090)FCC	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/9/14 19:42:09
Applicant:	Adonit	Test Rating:	DC 3V
Product:	Adonit Snap	Temp.(°C)/Hum.(%):	24.2(°C)/58%
Model No.:	090	Test Engineer:	Sam Su
Test Mode:	TX-2480		
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	-2.30	51.87	49.57	74.00	-24.43	peak		0	
2	6151.000	4.41	45.75	50.16	74.00	-23.84	peak	100	231	
3	7440.000	6.24	42.86	49.10	74.00	-24.90	peak		0	



Service No.:	114055224(090)FCC	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/9/14 19:43:11
Applicant:	Adonit	Test Rating:	DC 3V
Product:	Adonit Snap	Temp.(°C)/Hum.(%):	24.2(°C)/58%
Model No.:	090	Test Engineer:	Sam Su
Test Mode:	TX-2480		
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	-2.30	48.66	46.36	74.00	-27.64	peak			
2	6032.000	4.04	45.86	49.90	74.00	-24.10	peak	100	133	
3	7440.000	6.24	42.39	48.63	74.00	-25.37	peak			

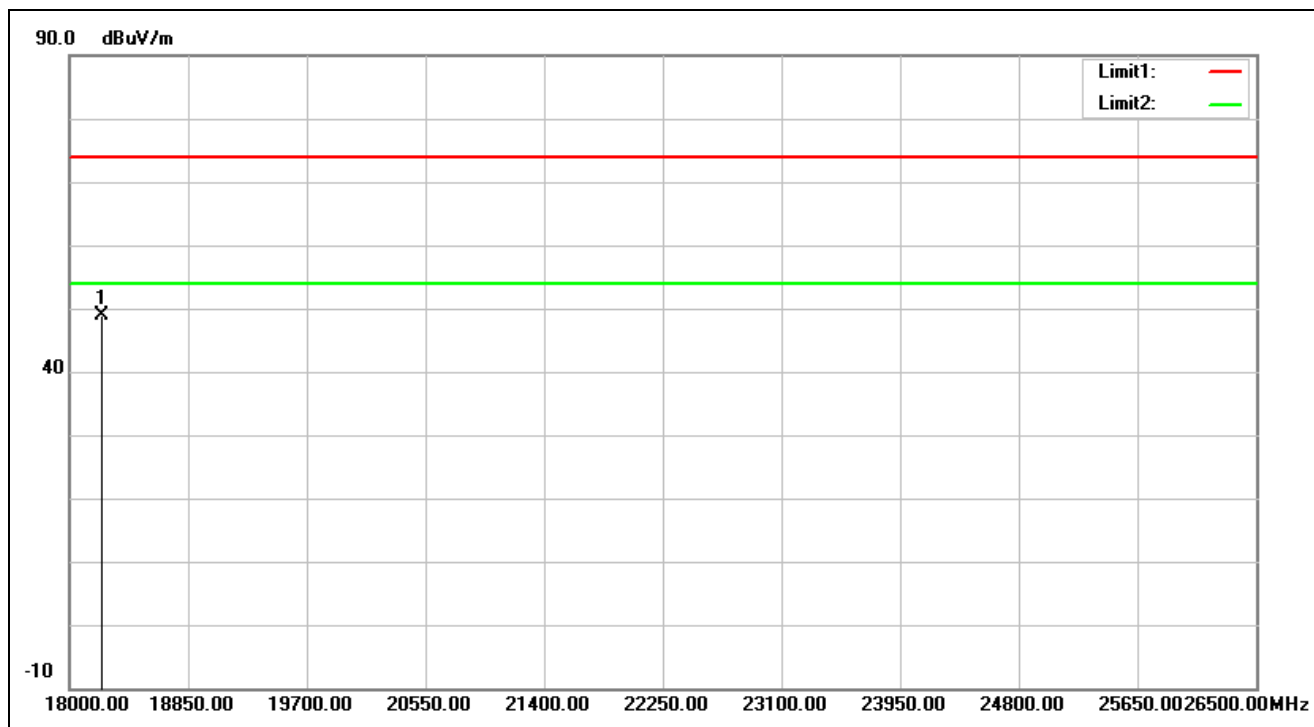
Spurious Emissions, TX Mode, 18-26G



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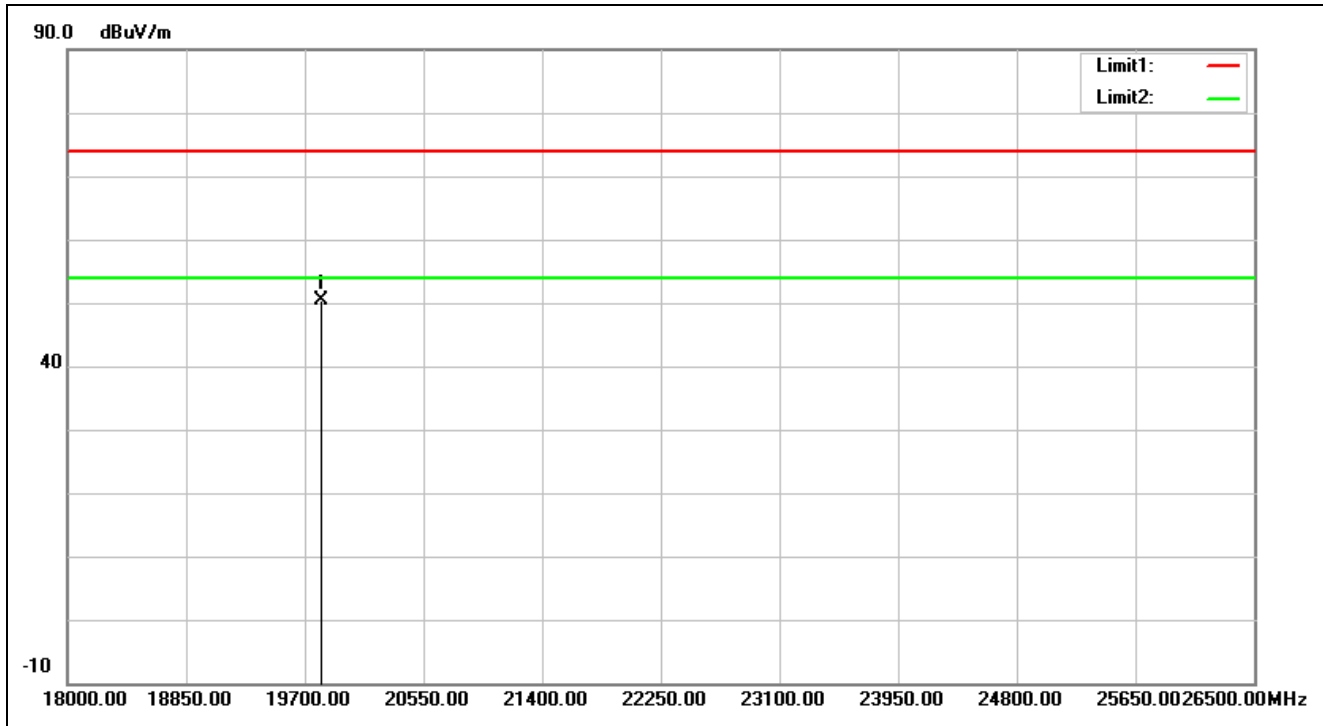
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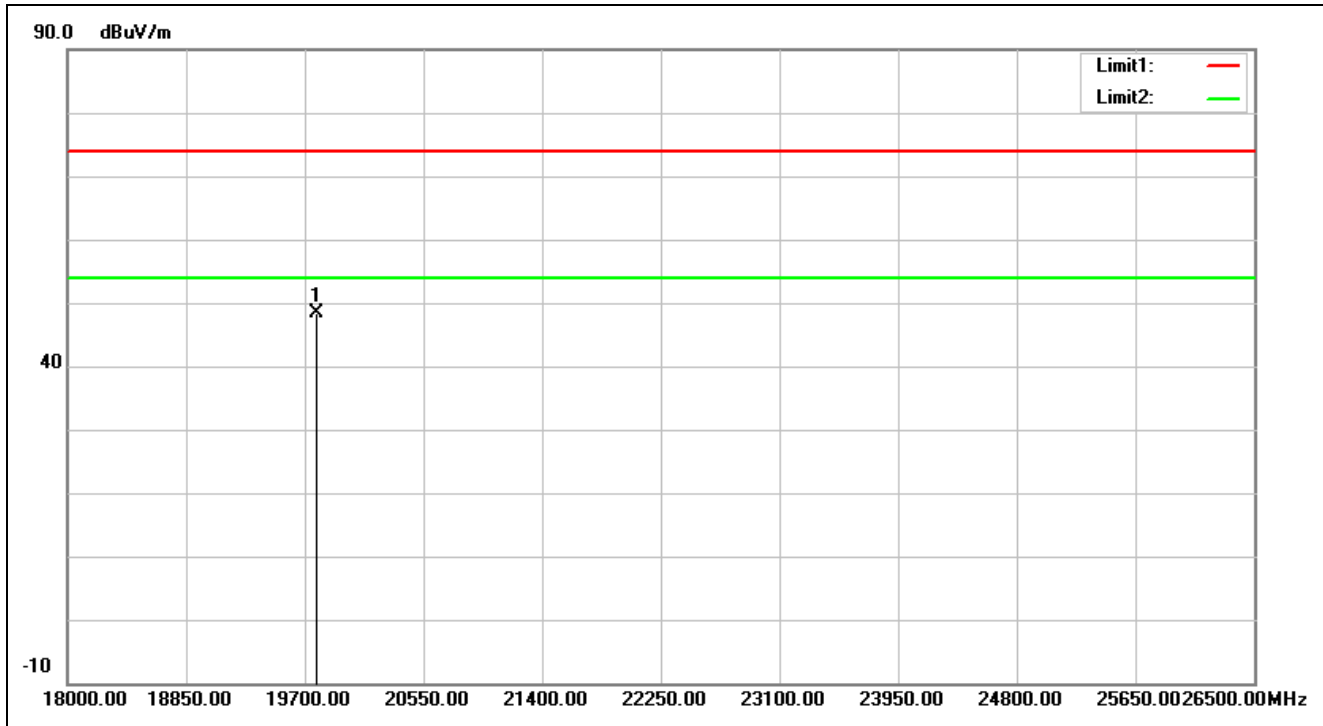
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/9/14 20:08:26
Applicant:	Adonit	Test Rating:	DC 3V
Product:	Adonit Snap	Temp.(°C)/Hum.(%):	24.2(°C)/58%
Model No.:	090	Test Engineer:	Sam Su
Test Mode:	TX-2402		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	18229.500	29.07	19.71	48.78	74.00	-25.22	peak		0	



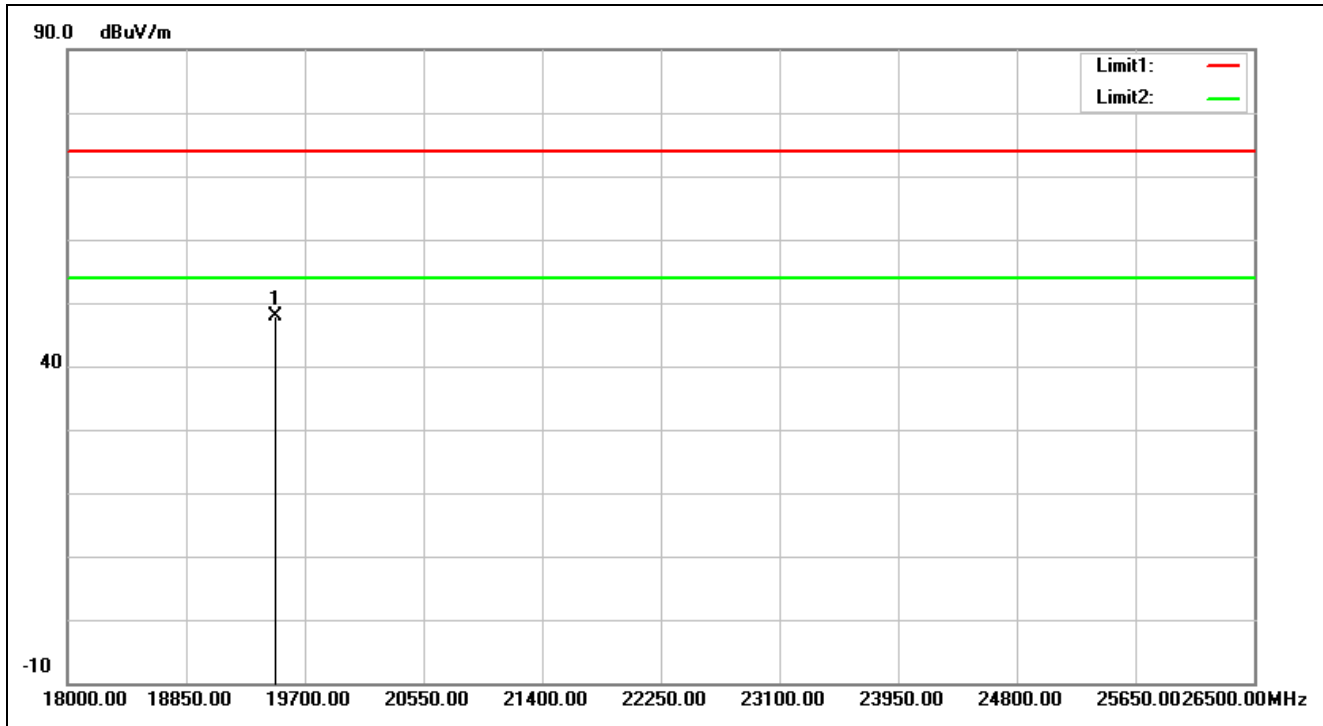
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/9/14 20:10:39
Applicant:	Adonit	Test Rating:	DC 3V
Product:	Adonit Snap	Temp.(°C)/Hum.(%):	24.2(°C)/58%
Model No.:	090	Test Engineer:	Sam Su
Test Mode:	TX-2402		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	19819.000	29.70	20.59	50.29	74.00	-23.71	peak			



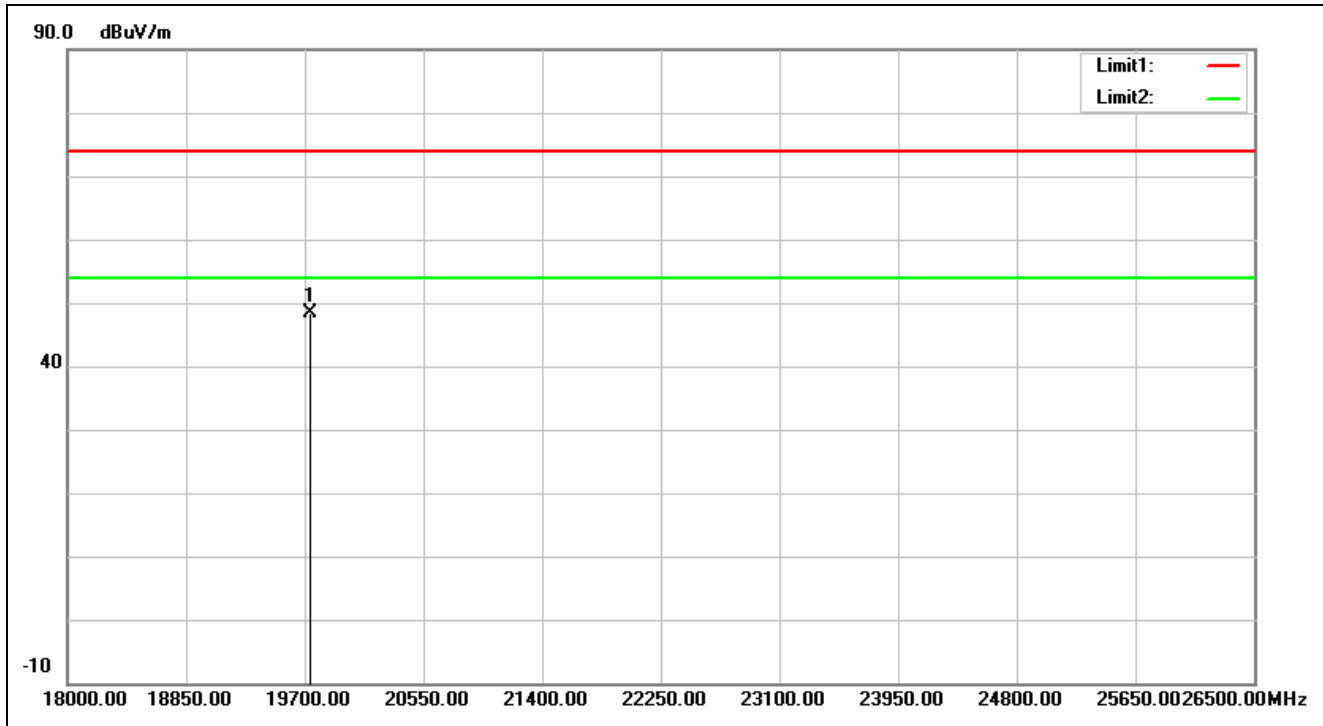
Service No.:	114055224(090)FCC	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/9/14 20:12:05
Applicant:	Adonit	Test Rating:	DC 3V
Product:	Adonit Snap	Temp.(°C)/Hum.(%):	24.2(°C)/58%
Model No.:	090	Test Engineer:	Sam Su
Test Mode:	TX-2440		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	19785.000	29.69	18.81	48.50	74.00	-25.50	peak			



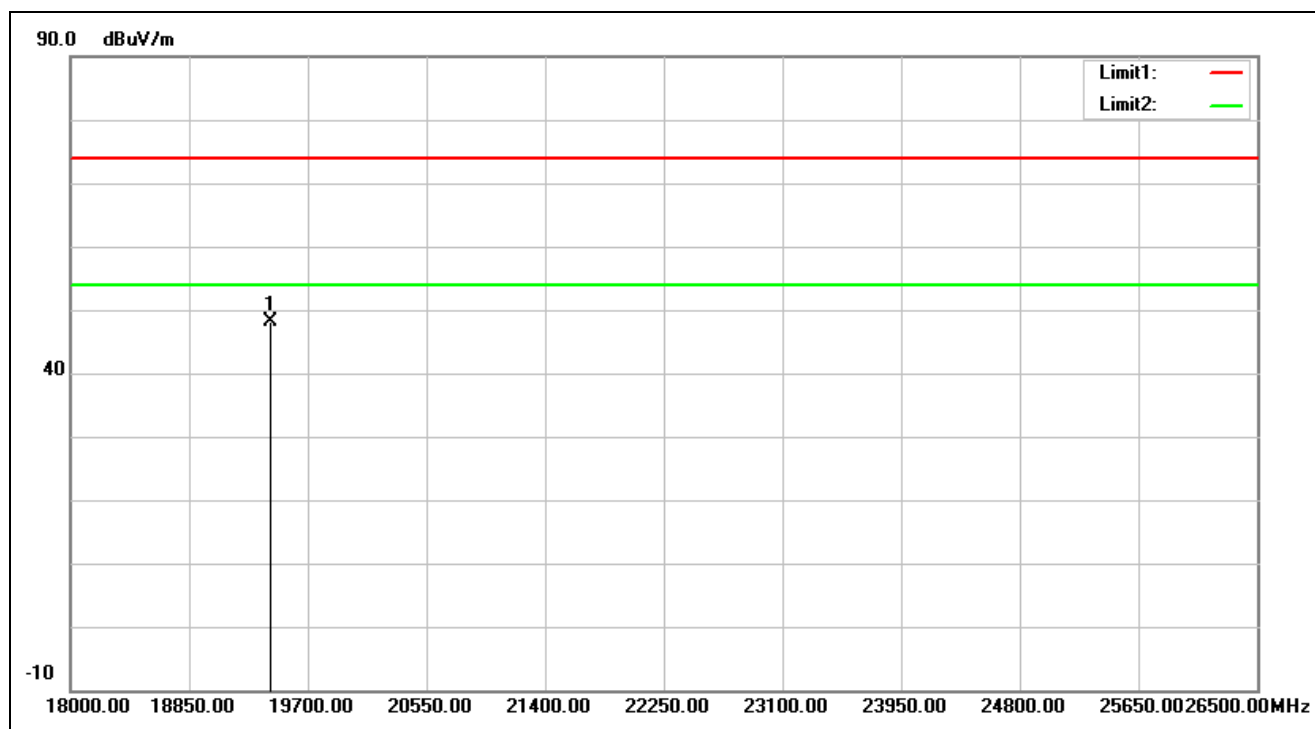
Service No.:	114055224(090)FCC	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/9/14 20:15:18
Applicant:	Adonit	Test Rating:	DC 3V
Product:	Adonit Snap	Temp.(°C)/Hum.(%):	24.2(°C)/58%
Model No.:	090	Test Engineer:	Sam Su
Test Mode:	TX-2440		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	19487.500	29.58	18.24	47.82	74.00	-26.18	peak			



Service No.:	114055224(090)FCC	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/9/14 20:17:40
Applicant:	Adonit	Test Rating:	DC 3V
Product:	Adonit Snap	Temp.(°C)/Hum.(%):	24.2(°C)/58%
Model No.:	090	Test Engineer:	Sam Su
Test Mode:	TX-2480		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	19742.500	29.68	18.64	48.32	74.00	-25.68	peak			



Service No.:	114055224(090)FCC	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/9/14 20:19:51
Applicant:	Adonit	Test Rating:	DC 3V
Product:	Adonit Snap	Temp.(°C)/Hum.(%):	24.2(°C)/58%
Model No.:	090	Test Engineer:	Sam Su
Test Mode:	TX-2480		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	19428.000	29.55	18.49	48.04	74.00	-25.96	peak			

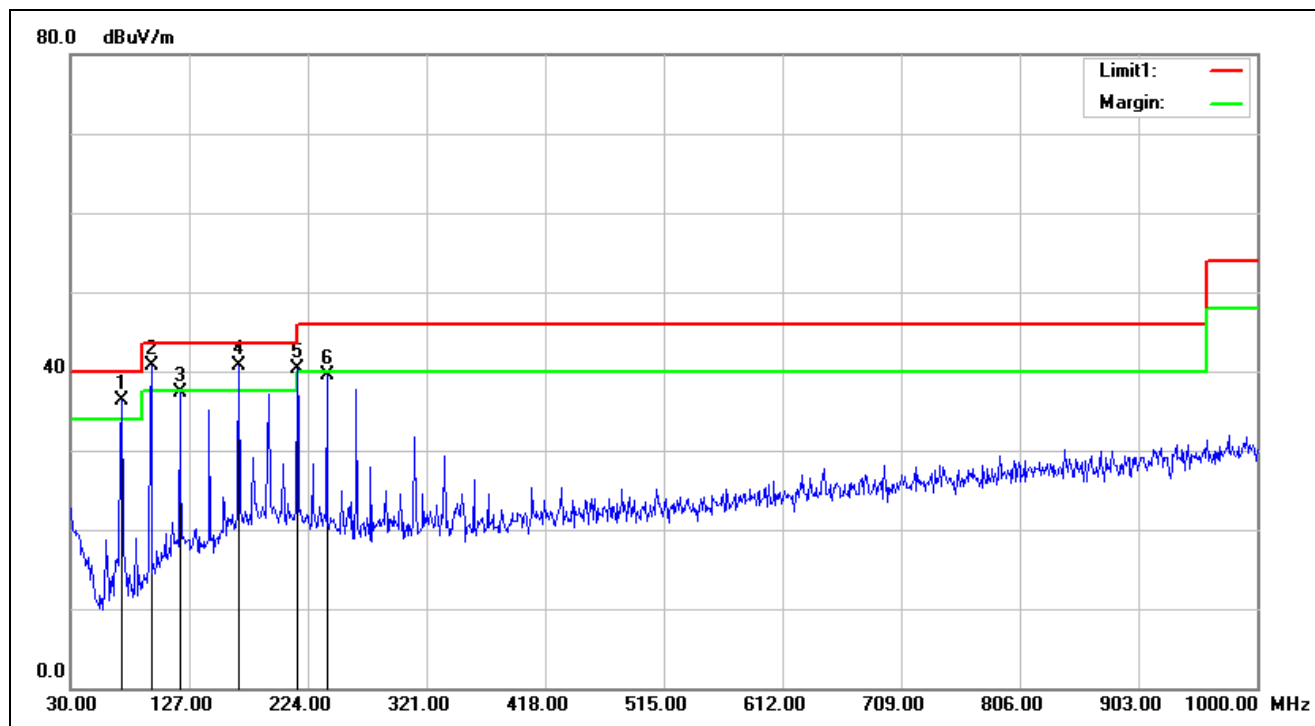
Spurious Emissions, TX Mode, 30M-1G



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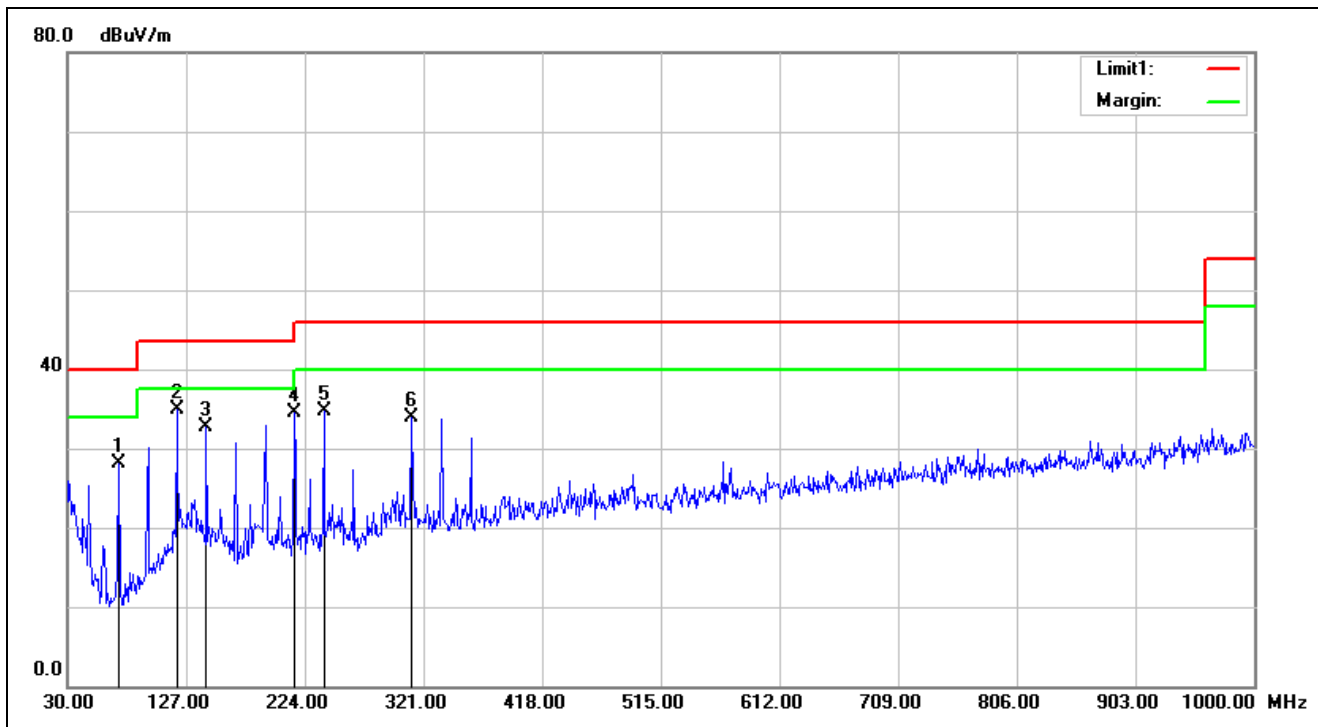
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Service No.:	114055224(090)FCC	Test Distance:	3m
Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/9/14 21:29:51
Applicant:	Adonit	Test Rating:	DC 3V
Product:	Adonit Snap	Temp.(°C)/Hum.(%)	24.2(°C)/58%
Model No.:	090	Test Engineer:	Sam Su
Test Mode:	TX-2440		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	71.7099	-12.86	49.10	36.24	40.00	-3.76	QP	100	360	
2	95.9599	-10.03	50.79	40.76	43.50	-2.74	QP	100	117	
3	119.2399	-7.40	44.65	37.25	43.50	-6.25	QP	100	223	
4	167.7400	-8.76	49.53	40.77	43.50	-2.73	QP	100	46	
5	215.2700	-8.41	48.74	40.33	43.50	-3.17	QP	100	116	
6	239.5200	-6.73	46.28	39.55	46.00	-6.45	QP	100	20	

Spurious Emissions, TX Mode, 30M-1G



Service No.:	114055224(090)FCC	Test Distance:	3m
Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/9/14 21:31:05
Applicant:	Adonit	Test Rating:	DC 3V
Product:	Adonit Snap	Temp.(°C)/Hum.(%)	24.2(°C)/58%
Model No.:	090	Test Engineer:	Sam Su
Test Mode:	TX-2440		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	71.7100	-12.86	41.03	28.17	40.00	-11.83	QP	100	168	
2	119.2400	-7.40	42.37	34.97	43.50	-8.53	QP	100	0	
3	143.4900	-7.14	39.88	32.74	43.50	-10.76	QP	100	360	
4	215.2700	-8.41	42.98	34.57	43.50	-8.93	QP	100	12	
5	239.5200	-6.73	41.42	34.69	46.00	-11.31	QP	100	255	
6	311.3000	-4.24	38.10	33.86	46.00	-12.14	QP	100	337	

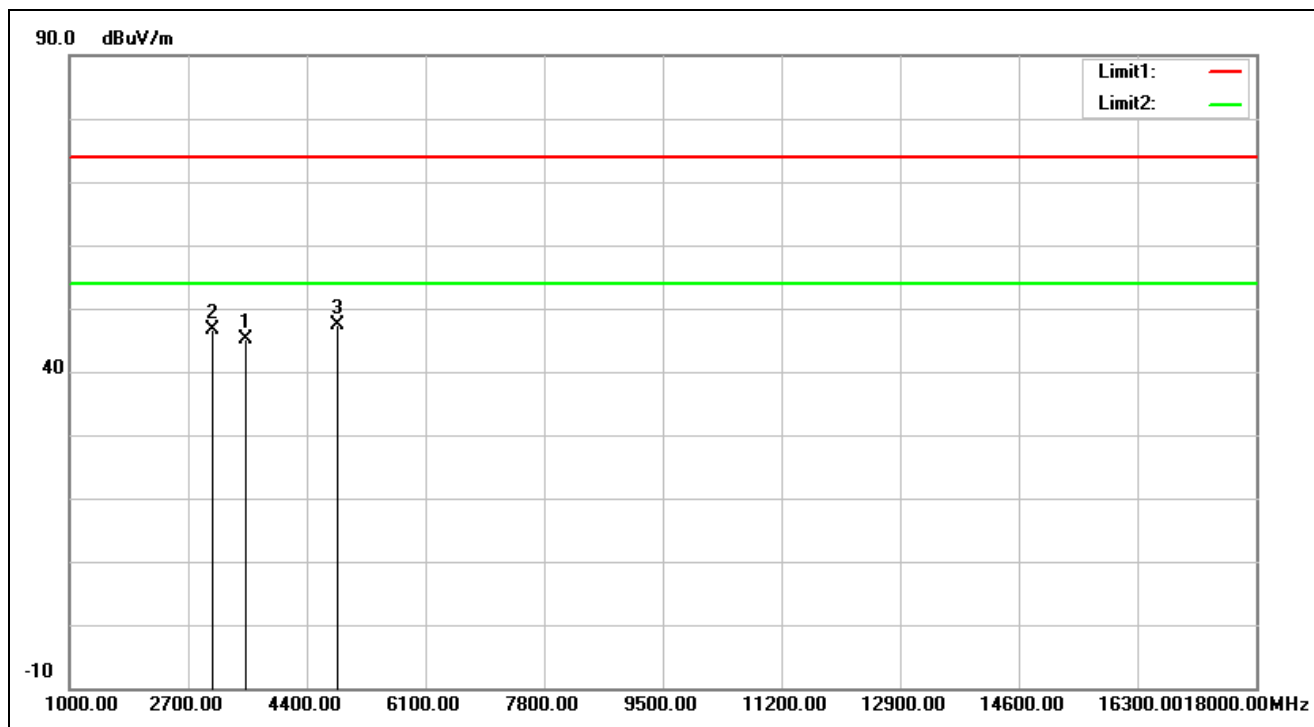
Spurious Emissions, RX Mode, 1-18G



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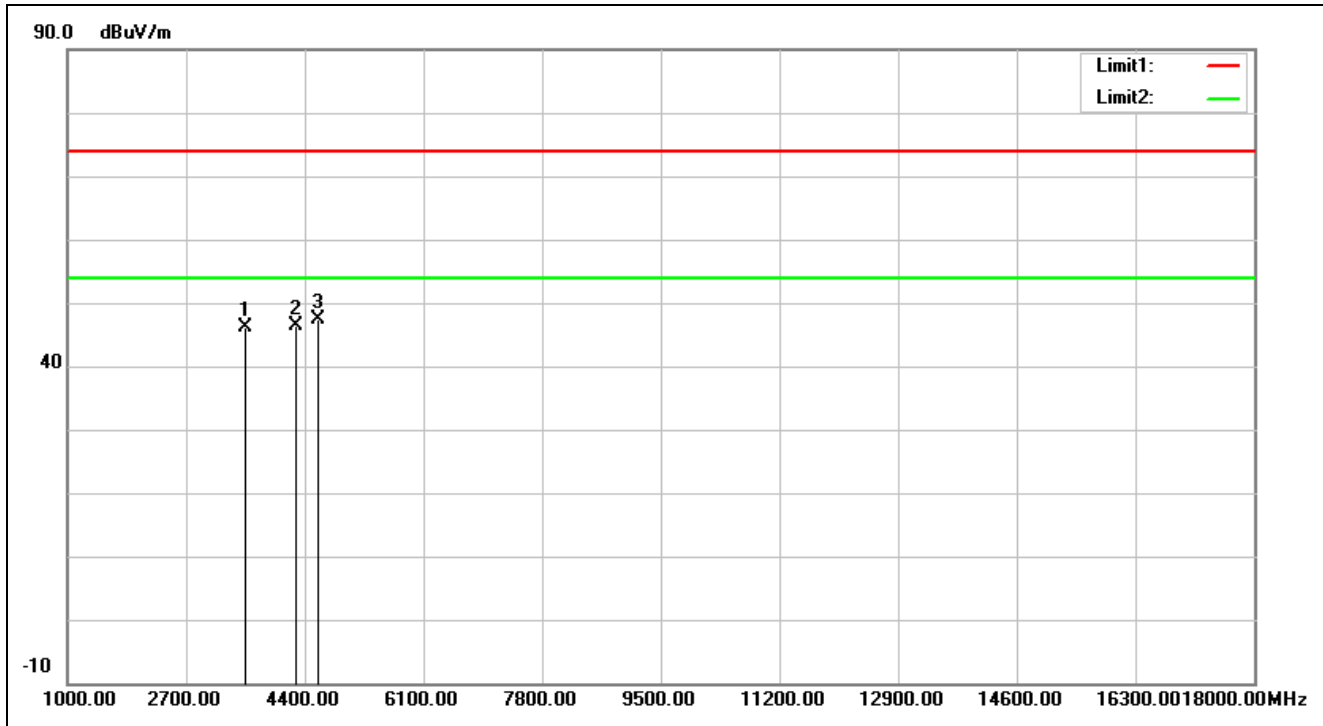
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Service No.:	114055224(090)FCC	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/9/14 19:55:03
Applicant:	Adonit	Test Rating:	DC 3V
Product:	Adonit Snap	Temp.(°C)/Hum.(%):	24.2(°C)/58%
Model No.:	090	Test Engineer:	Sam Su
Test Mode:	RX-2440		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	3533.000	-5.83	50.96	45.13	74.00	-28.87	peak	100	44	
2	3057.000	-6.46	53.19	46.73	74.00	-27.27	peak	100	147	
3	4842.000	-2.55	50.05	47.50	74.00	-26.50	peak	100	0	



Service No.:	114055224(090)FCC	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/9/14 19:56:05
Applicant:	Adonit	Test Rating:	DC 3V
Product:	Adonit Snap	Temp.(°C)/Hum.(%)	24.2(°C)/58%
Model No.:	090	Test Engineer:	Sam Su
Test Mode:	RX-2440		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	3550.000	-5.81	51.99	46.18	74.00	-27.82	peak	100	60	
2	4281.000	-4.23	50.57	46.34	74.00	-27.66	peak	100	359	
3	4587.000	-3.13	50.56	47.43	74.00	-26.57	peak	100	248	

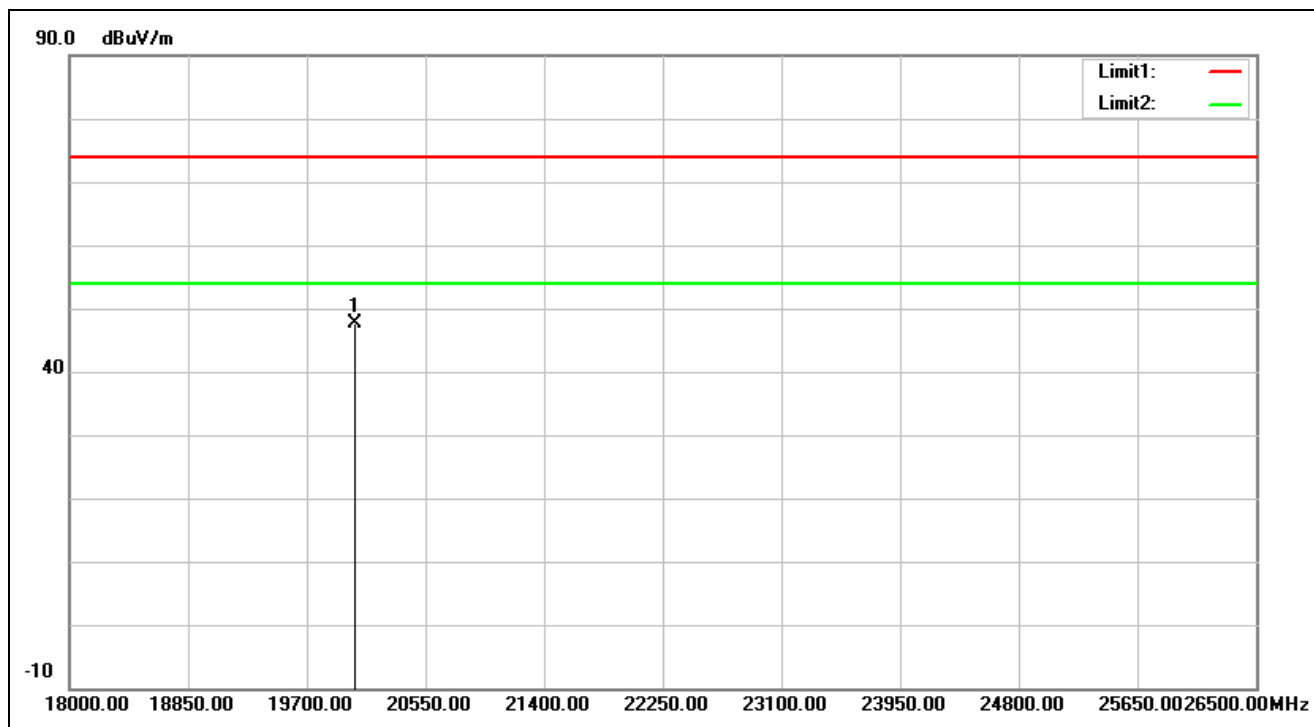
Spurious Emissions, RX Mode, 18-26G



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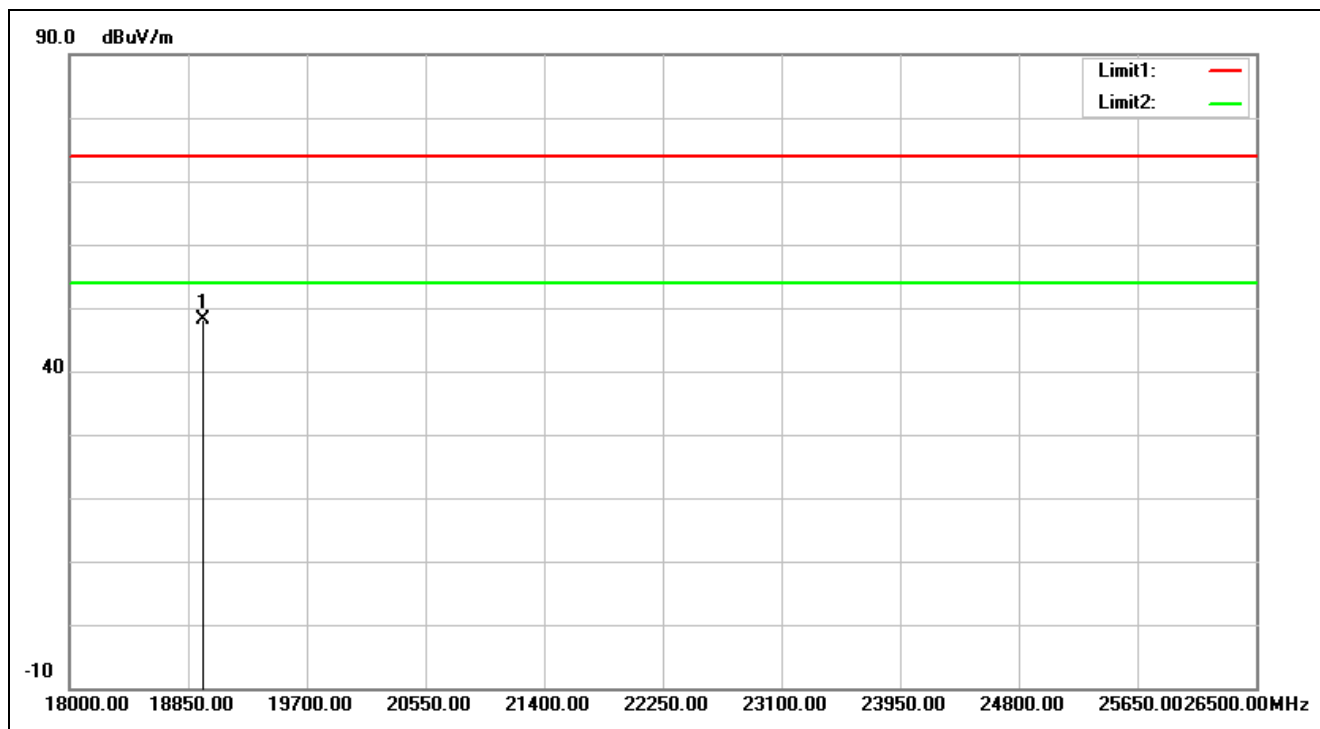
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Service No.:	114055224(090)FCC	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/9/14 20:03:31
Applicant:	Adonit	Test Rating:	DC 3V
Product:	Adonit Snap	Temp.(°C)/Hum.(%):	24.2(°C)/58%
Model No.:	090	Test Engineer:	Sam Su
Test Mode:	RX-2440		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	20040.000	29.78	17.78	47.56	74.00	-26.44	peak		0	



Service No.:	114055224(090)FCC	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/9/14 20:05:45
Applicant:	Adonit	Test Rating:	DC 3V
Product:	Adonit Snap	Temp.(°C)/Hum.(%):	24.2(°C)/58%
Model No.:	090	Test Engineer:	Sam Su
Test Mode:	RX-2440		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	18960.500	29.32	18.69	48.01	74.00	-25.99	peak		0	

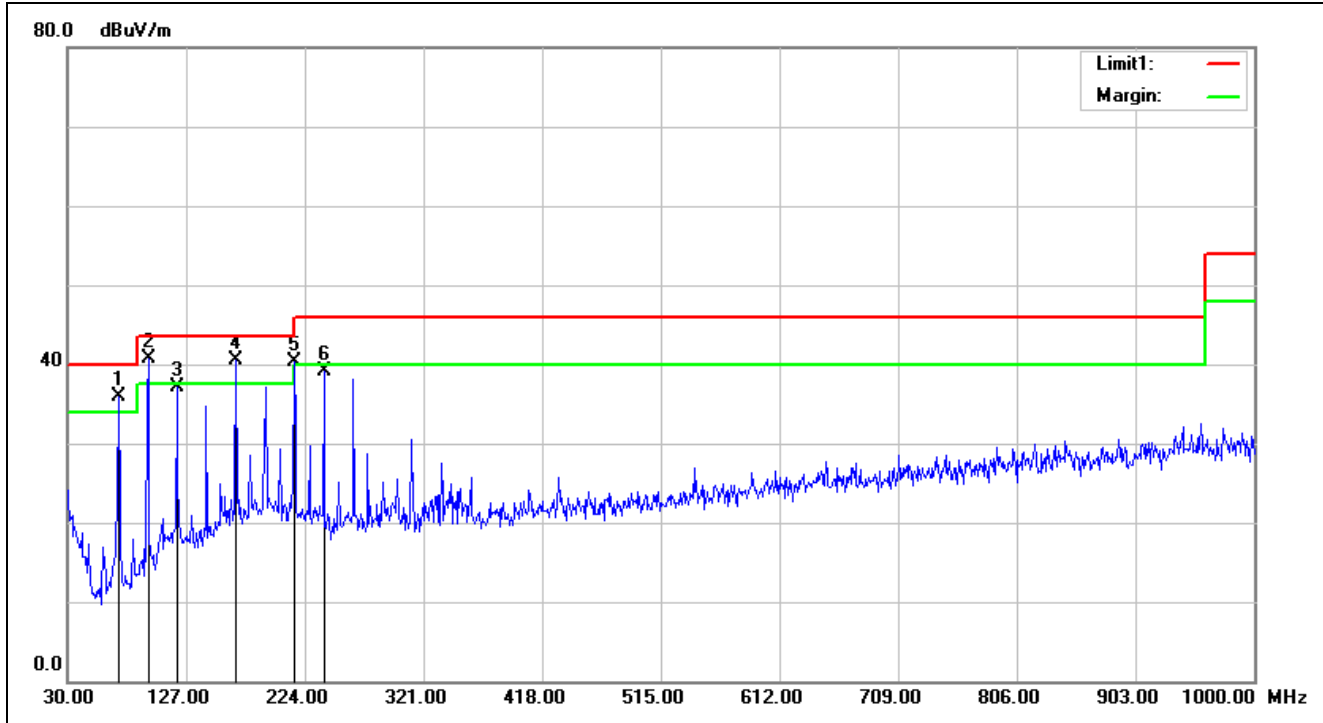
Spurious Emissions, RX Mode, 30M-1G



TUV Taiwan

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

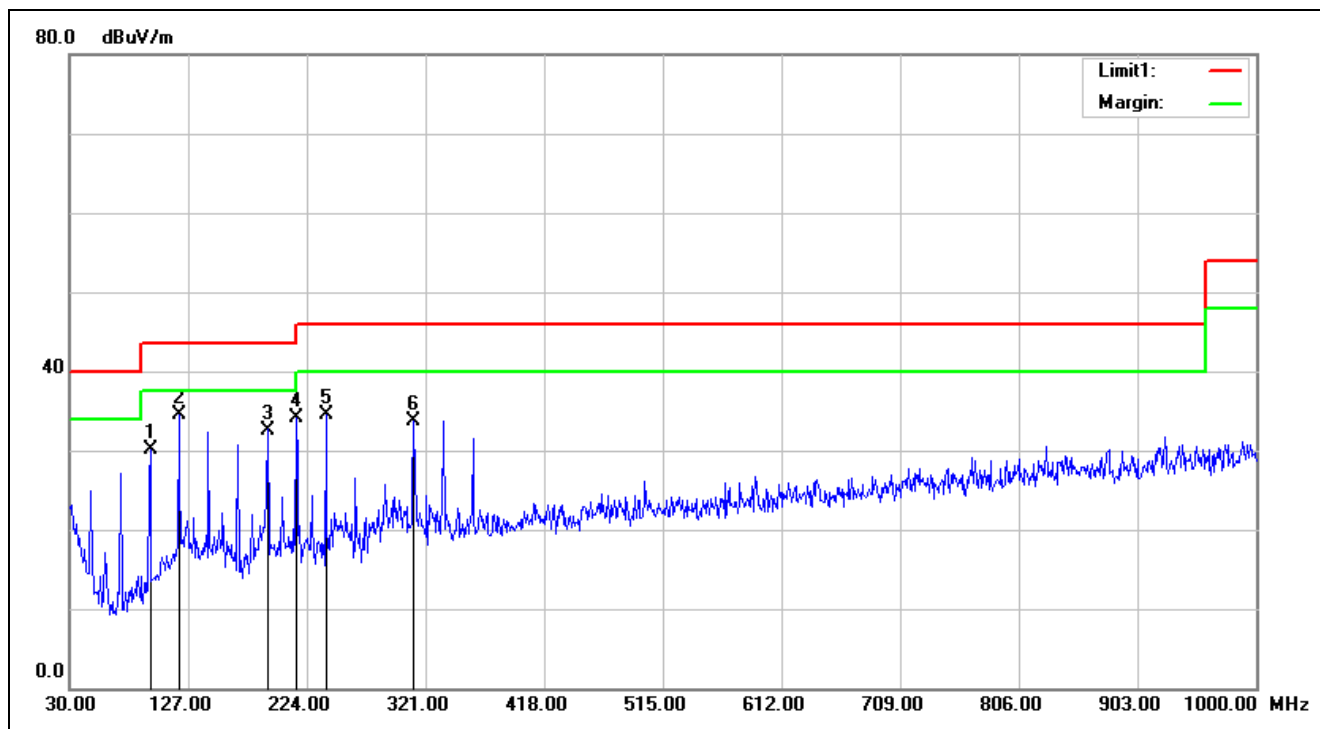
Tel:+886-2172-7000 fax:+886-2528-0018



Service No.:	114055224(090)FCC	Test Distance:	3m
Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/9/14 21:50:09
Applicant:	Adonit	Test Rating:	DC 3V
Product:	Adonit Snap	Temp.(°C)/Hum.(%)	24.2(°C)/58%
Model No.:	090	Test Engineer:	Sam Su
Test Mode:	RX-2440		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	71.7100	-12.86	48.75	35.89	40.00	-4.11	QP	100	241	
2	95.9600	-10.03	50.81	40.78	43.50	-2.72	QP	100	88	
3	119.2400	-7.40	44.60	37.20	43.50	-6.30	QP	100	26	
4	167.7400	-8.76	49.27	40.51	43.50	-2.99	QP	100	57	
5	215.2700	-8.41	48.79	40.38	43.50	-3.12	QP	100	360	
6	239.5200	-6.73	45.90	39.17	46.00	-6.83	QP	100	199	

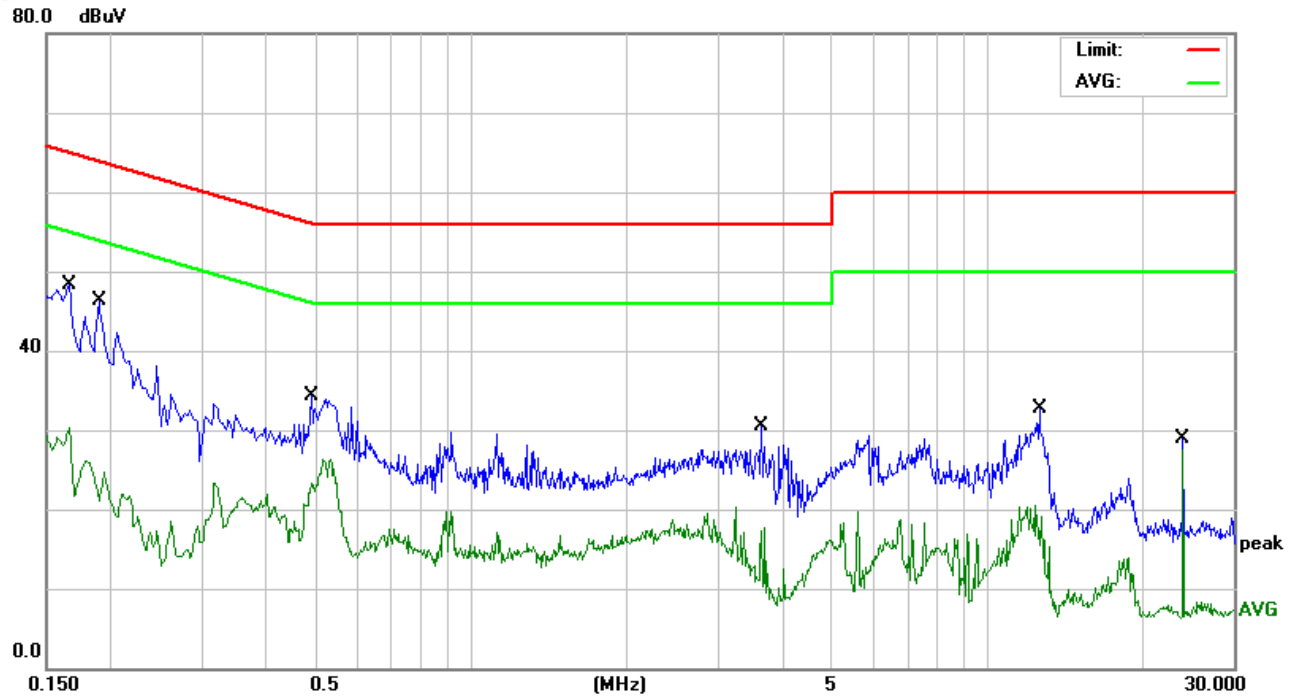
Spurious Emissions, RX Mode, 30M-1G



Service No.:	114055224(090)FCC	Test Distance:	3m
Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/9/14 21:53:06
Applicant:	Adonit	Test Rating:	DC 3V
Product:	Adonit Snap	Temp.(°C)/Hum.(%)	24.2(°C)/58%
Model No.:	090	Test Engineer:	Sam Su
Test Mode:	RX-2440		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	95.9600	-10.03	40.22	30.19	43.50	-13.31	QP	100	64	
2	119.2400	-7.40	41.87	34.47	43.50	-9.03	QP	100	160	
3	191.9900	-9.43	42.03	32.60	43.50	-10.90	QP	100	225	
4	215.2700	-8.41	42.48	34.07	43.50	-9.43	QP	100	75	
5	239.5200	-6.73	41.32	34.59	46.00	-11.41	QP	100	8	
6	311.3000	-4.24	37.90	33.66	46.00	-12.34	QP	100	360	

Mains Spurious Emissions



Service No.: 114055224(090)

Test Standard: FCC Class B Conduction(QP)

Probe: L1

Test item: Conduction Emission

Test Time: 2016/9/14 22:18:28

Applicant: Adonit

Test Rating: AC 120V/60Hz

Product: Adonit Snap

Temp.(°C)/Hum.(%): 21.2(°C)/46%

Model No.: 090

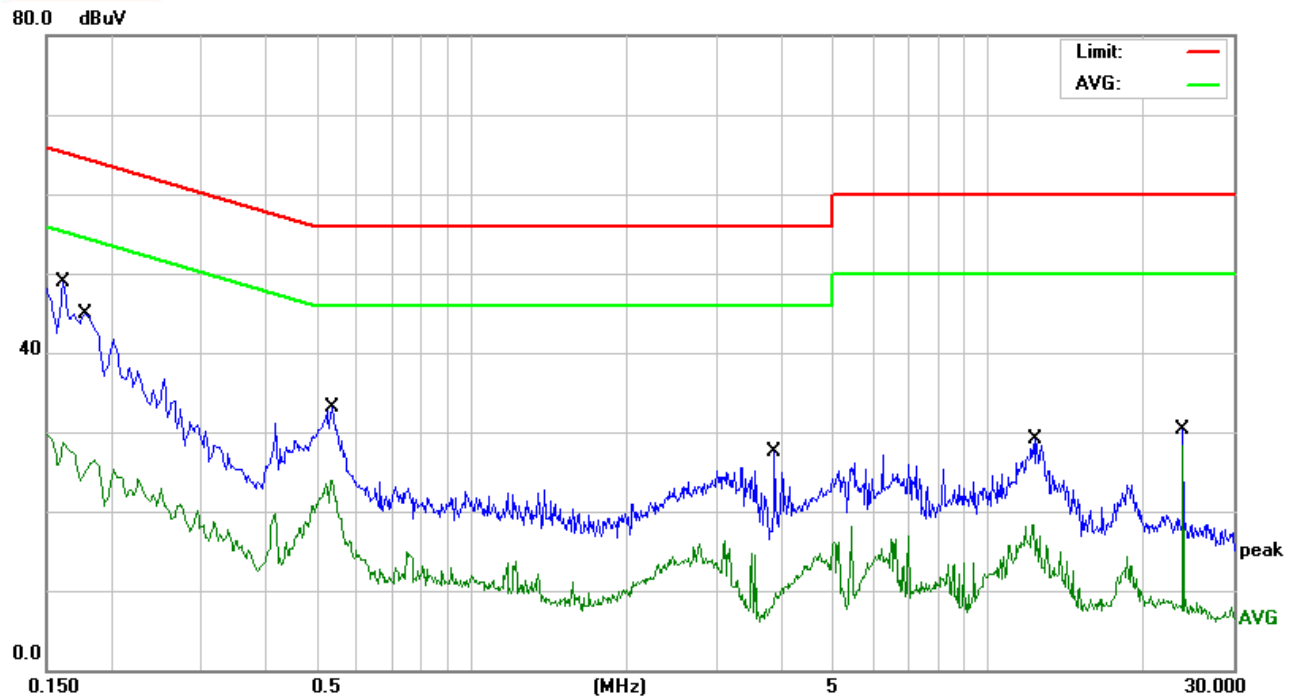
Test Engineer: Sam Su

Test Mode:

Remark:

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Remark
1	0.1660	9.78	32.34	42.12	65.15	-23.03	QP	
2	0.1660	9.78	14.99	24.77	55.15	-30.38	AVG	
3	0.1900	9.76	28.14	37.90	64.03	-26.13	QP	
4	0.1900	9.76	11.52	21.28	54.03	-32.75	AVG	
5	0.4900	9.75	16.33	26.08	56.17	-30.09	QP	
6	0.4900	9.75	8.62	18.37	46.17	-27.80	AVG	
7	3.6460	9.80	8.29	18.09	56.00	-37.91	QP	
8	3.6460	9.80	-0.22	9.58	46.00	-36.42	AVG	
9	12.5900	9.89	12.43	22.32	60.00	-37.68	QP	
10	12.5900	9.89	5.36	15.25	50.00	-34.75	AVG	
11	23.9860	9.97	18.27	28.24	60.00	-31.76	QP	
12	23.9860	9.97	17.54	27.51	50.00	-22.49	AVG	

Spurious Emissions, Mains, 150kHz - 30MHz



Service No.: 114055224(090)

Test Standard: FCC Class B Conduction(QP)

Probe: N

Test item: Conduction Emission

Test Time: 2016/9/14 22:23:10

Applicant: Adonit

Test Rating: AC 120V/60Hz

Product: Adonit Snap

Temp.(°C)/Hum.(%): 21.2(°C)/46%

Model No.: 090

Test Engineer: Sam Su

Test Mode:

Remark:

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Remark
1	0.1620	9.72	32.63	42.35	65.36	-23.01	QP	
2	0.1620	9.72	17.28	27.00	55.36	-28.36	AVG	
3	0.1780	9.70	30.18	39.88	64.58	-24.70	QP	
4	0.1780	9.70	15.46	25.16	54.58	-29.42	AVG	
5	0.5380	9.68	20.35	30.03	56.00	-25.97	QP	
6	0.5380	9.68	13.21	22.89	46.00	-23.11	AVG	
7	3.8620	9.70	3.09	12.79	56.00	-43.21	QP	
8	3.8620	9.70	-2.17	7.53	46.00	-38.47	AVG	
9	12.4180	9.86	11.15	21.01	60.00	-38.99	QP	
10	12.4180	9.86	4.22	14.08	50.00	-35.92	AVG	
11	23.9860	10.03	18.79	28.82	60.00	-31.18	QP	
12	23.9860	10.03	18.29	28.32	50.00	-21.68	AVG	