

Test Report No.50114141 001

Appendix D: Radiated and Mains Spurious Emission Data

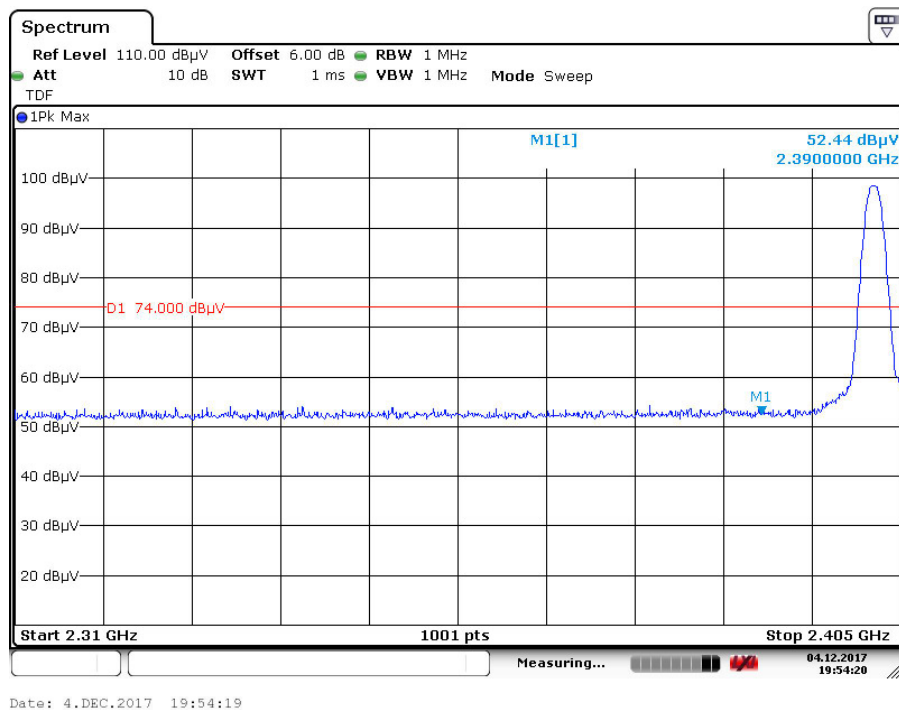
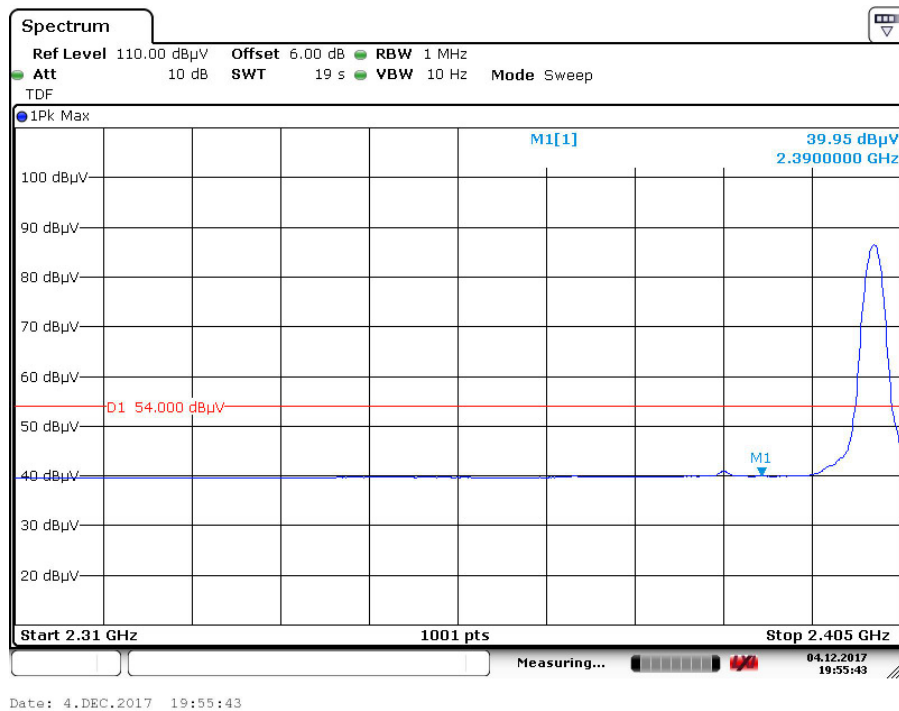
(File: 50114141 001AppendixD)

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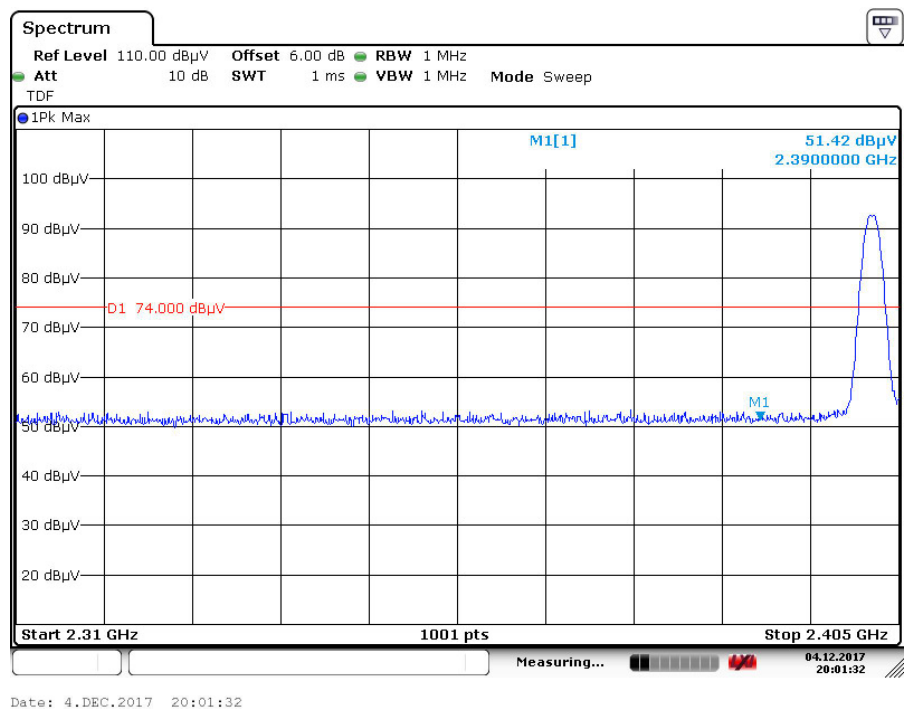
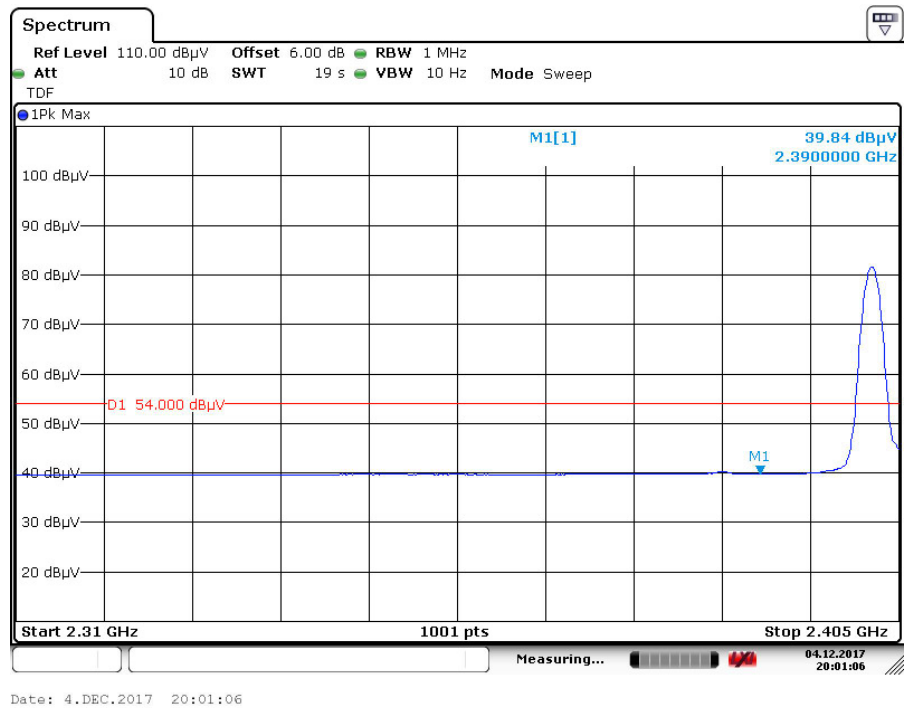
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Radiated Bandedge (GFSK)

Low Channel (Hor)

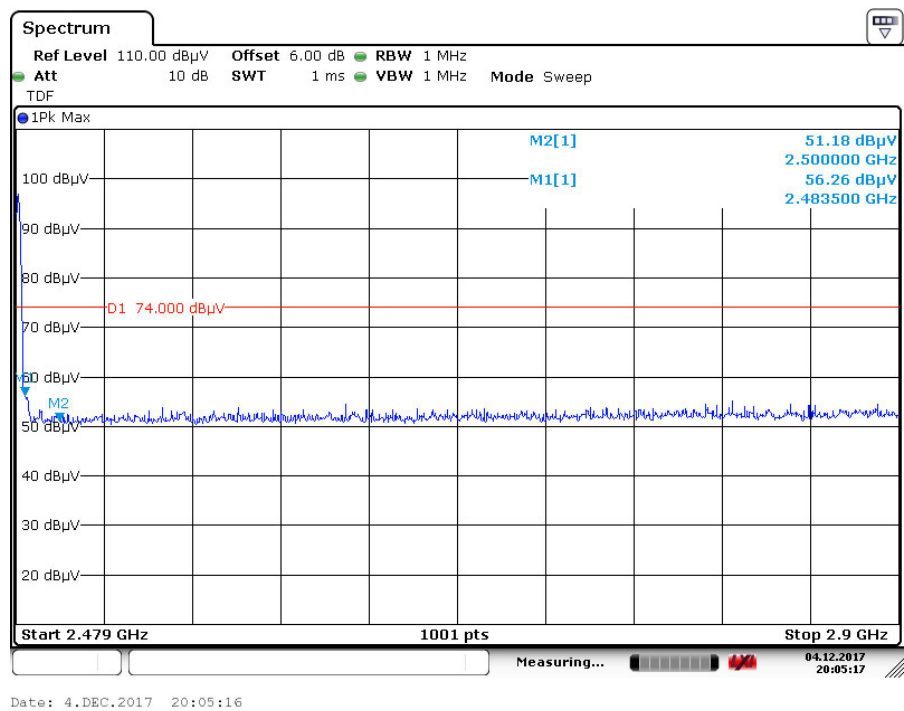
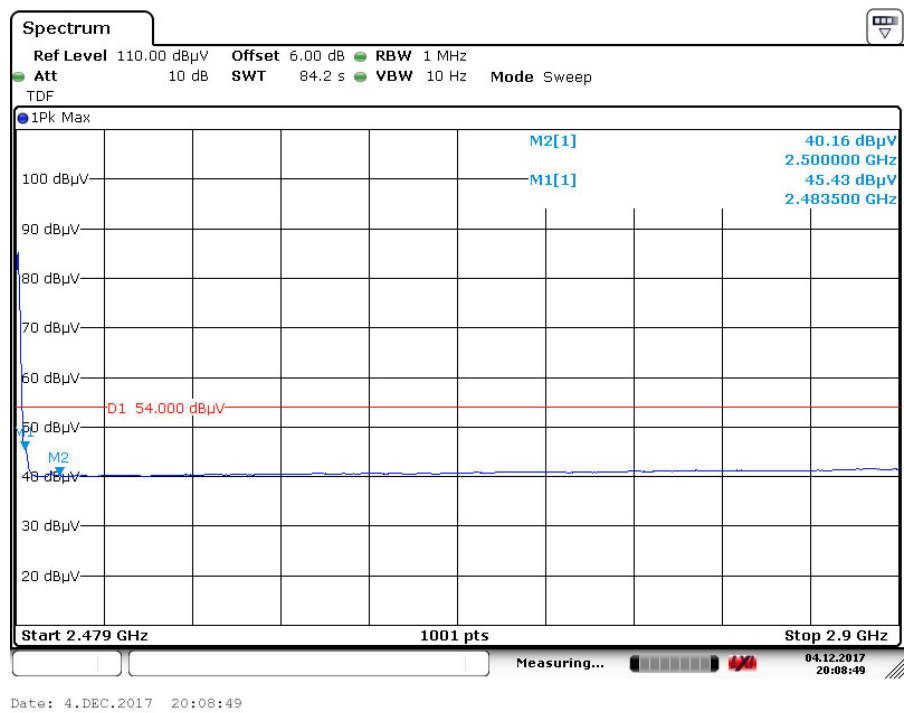


Low Channel (Ver)

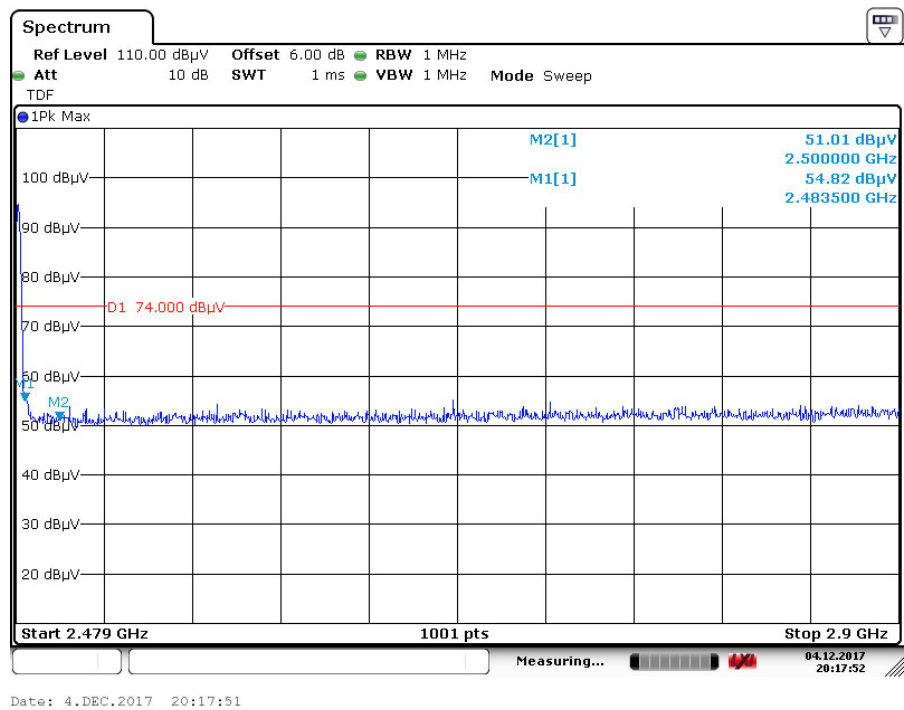
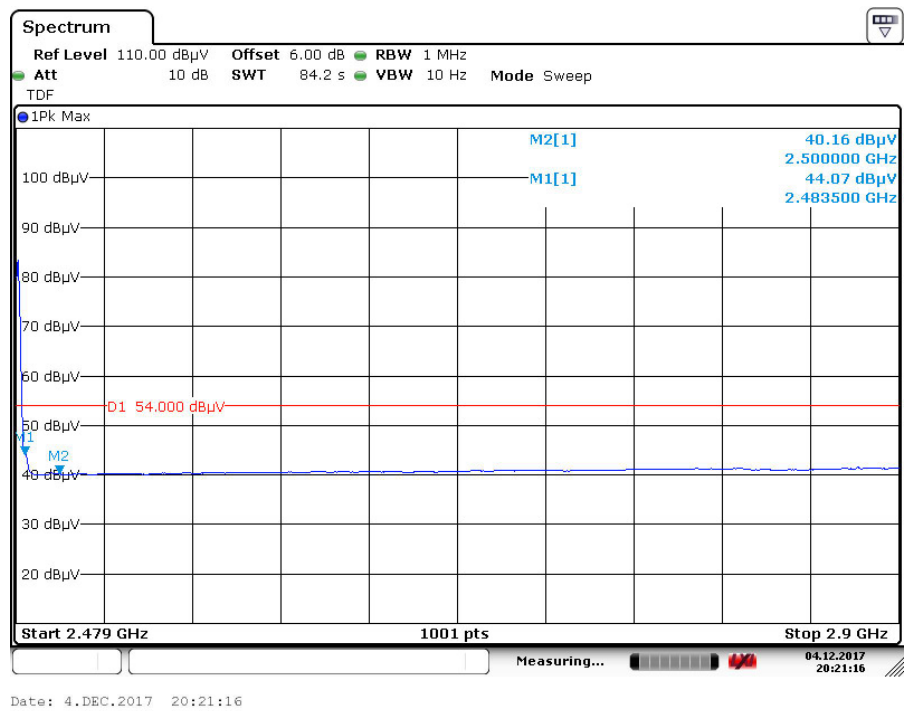


Radiated Bandedge (GFSK)

High Channel (Hor)

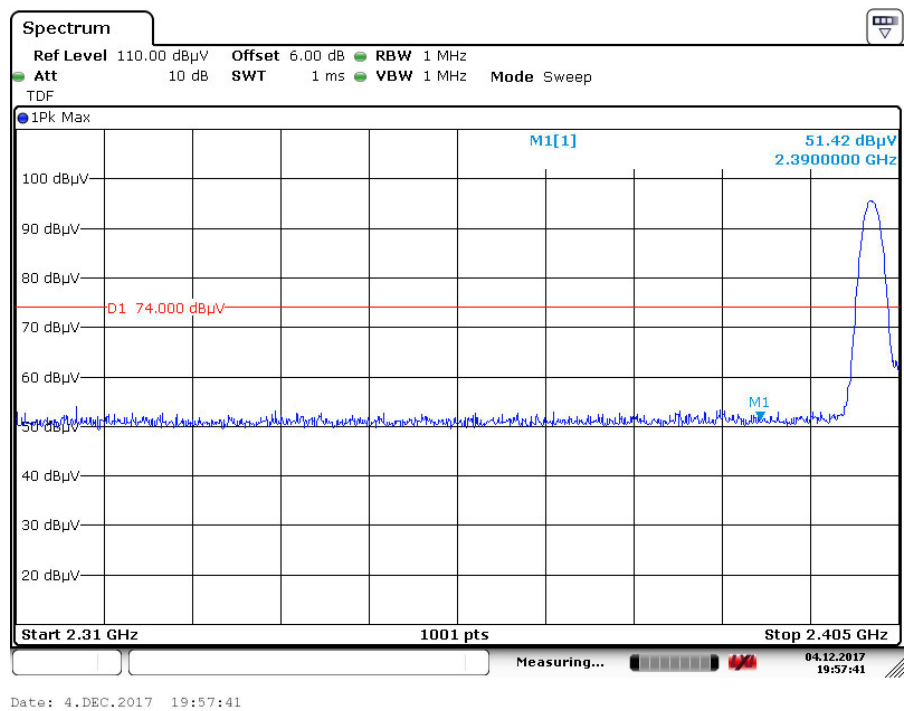
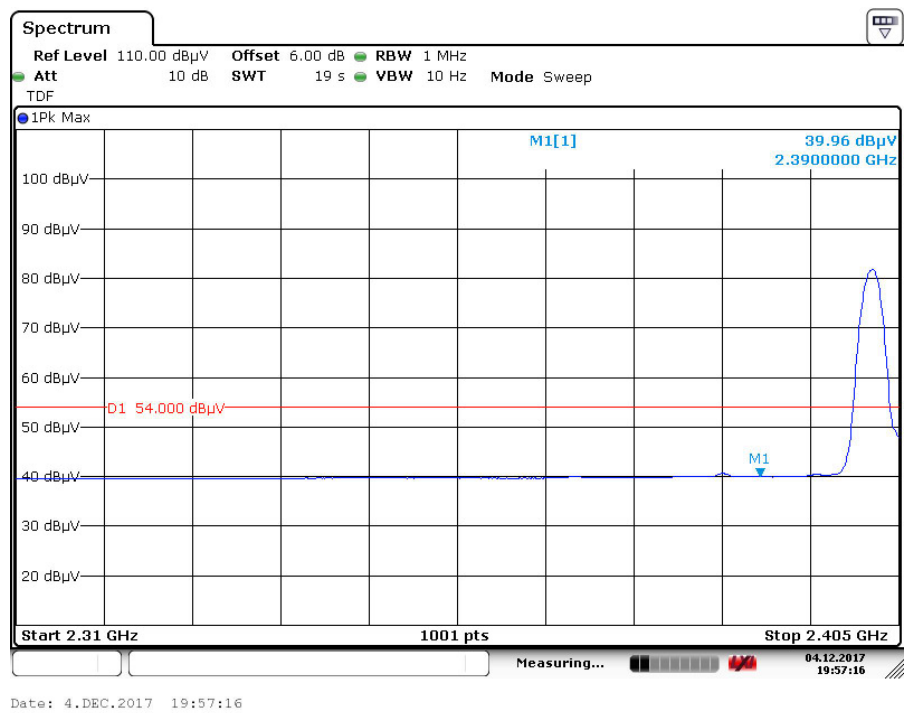


High Channel (Ver)

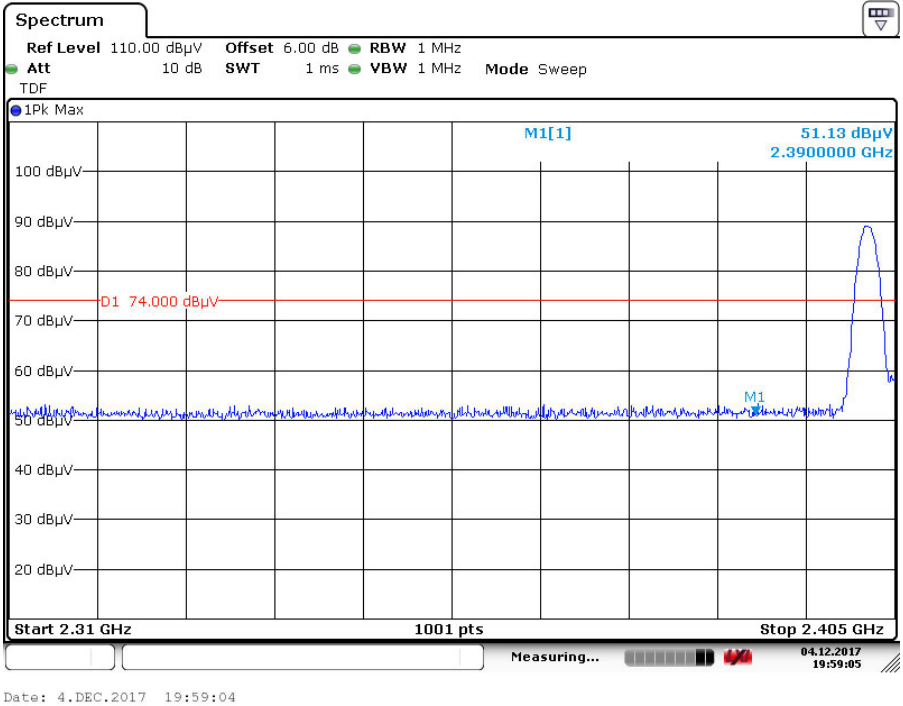
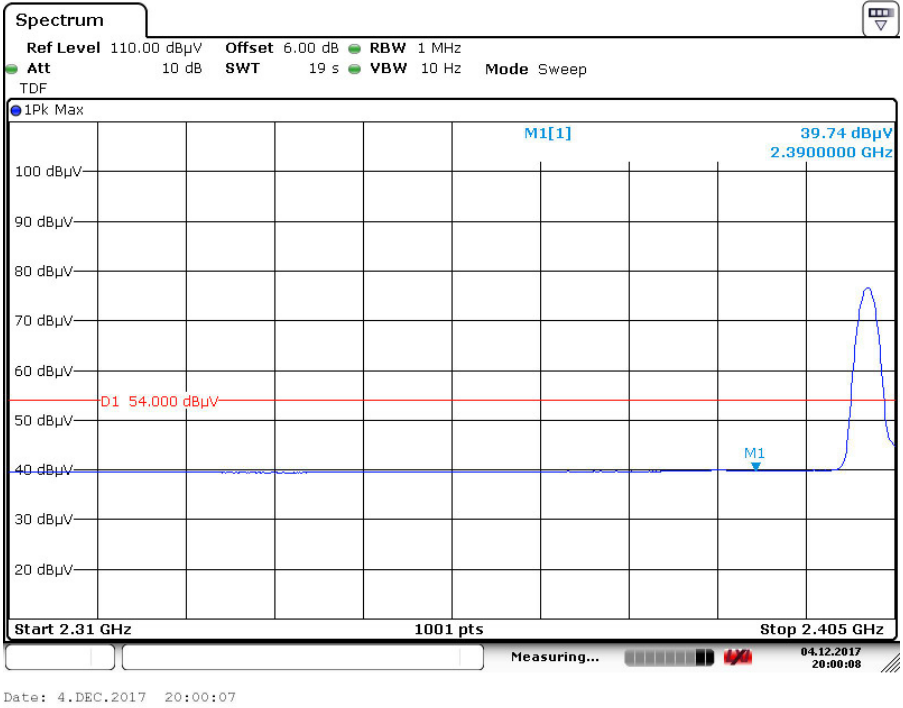


Radiated Bandedge (8DPSK)

Low Channel (Hor)

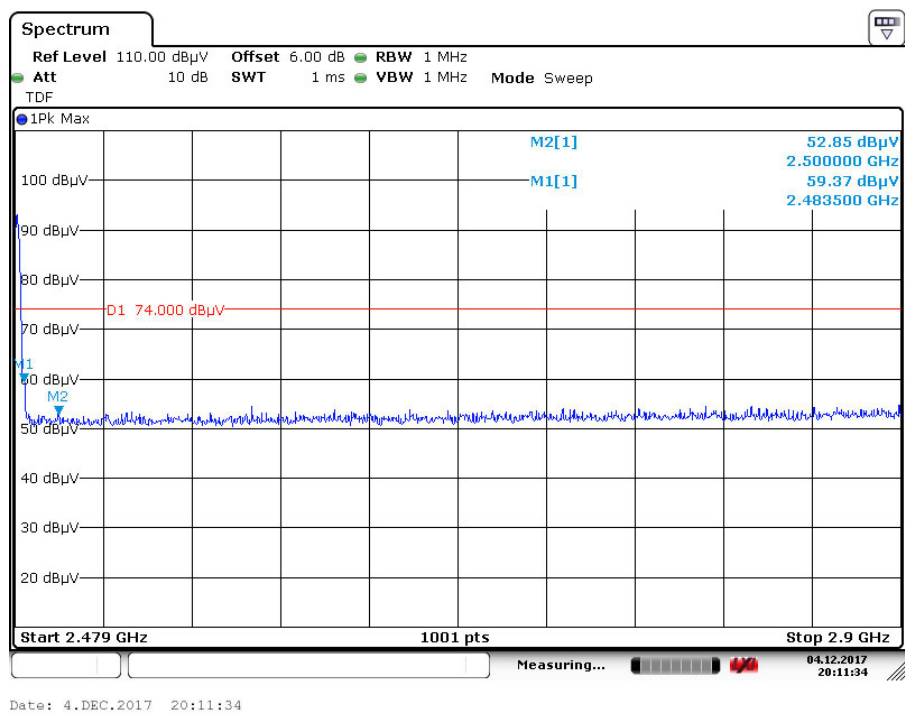
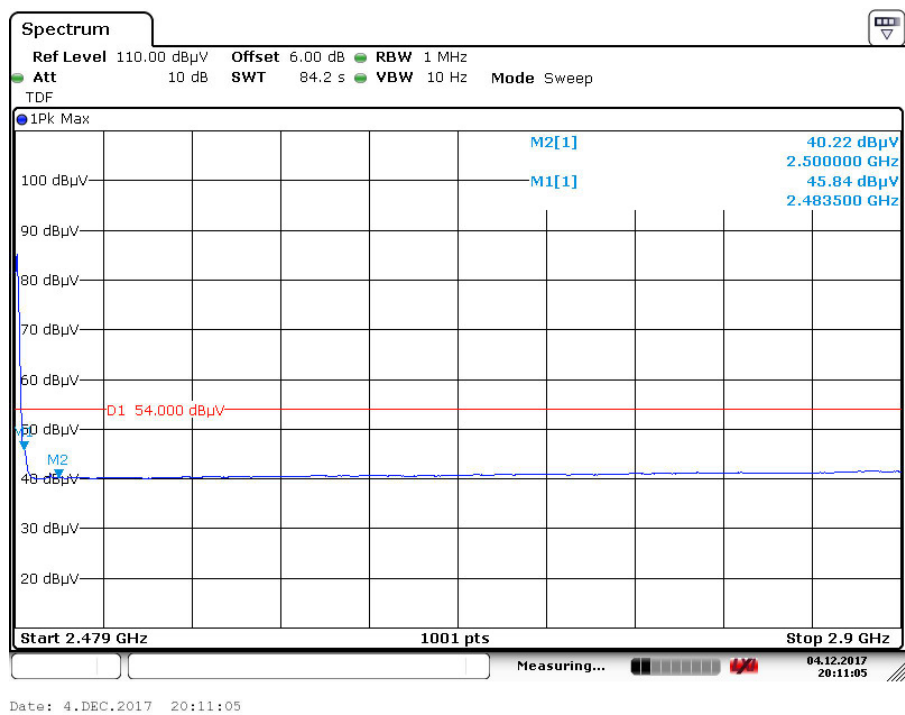


Low Channel (Ver)

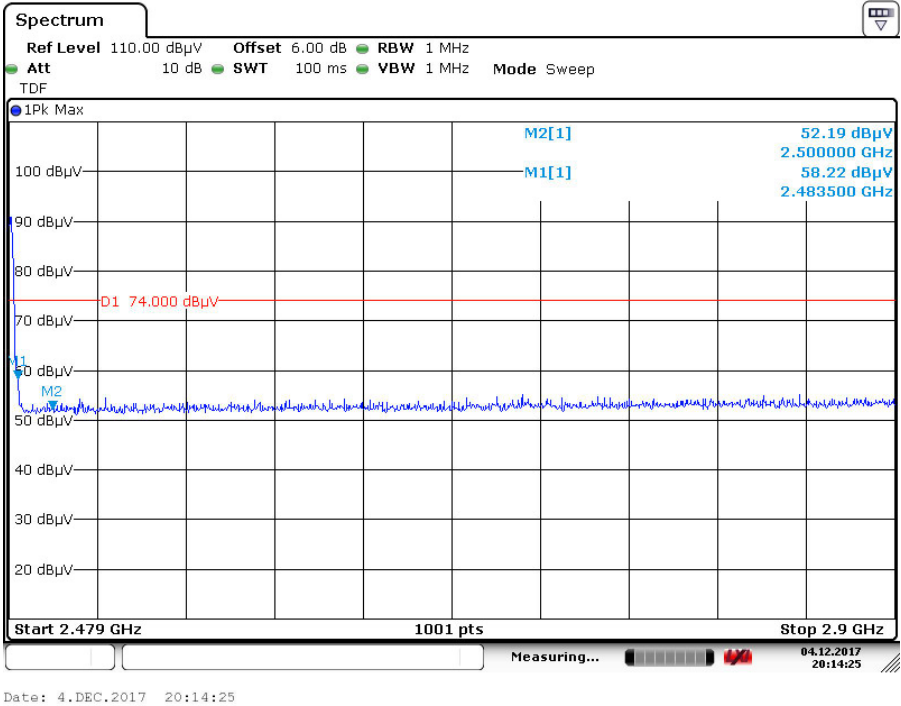
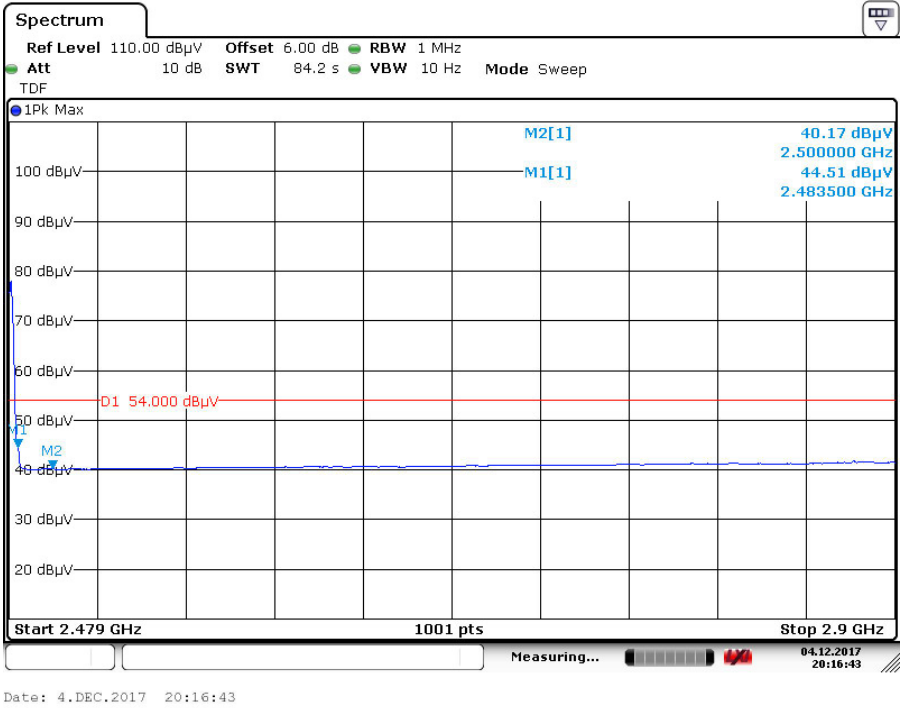


Radiated Bandedge (8DPSK)

High Channel (Hor)



High Channel (Ver)



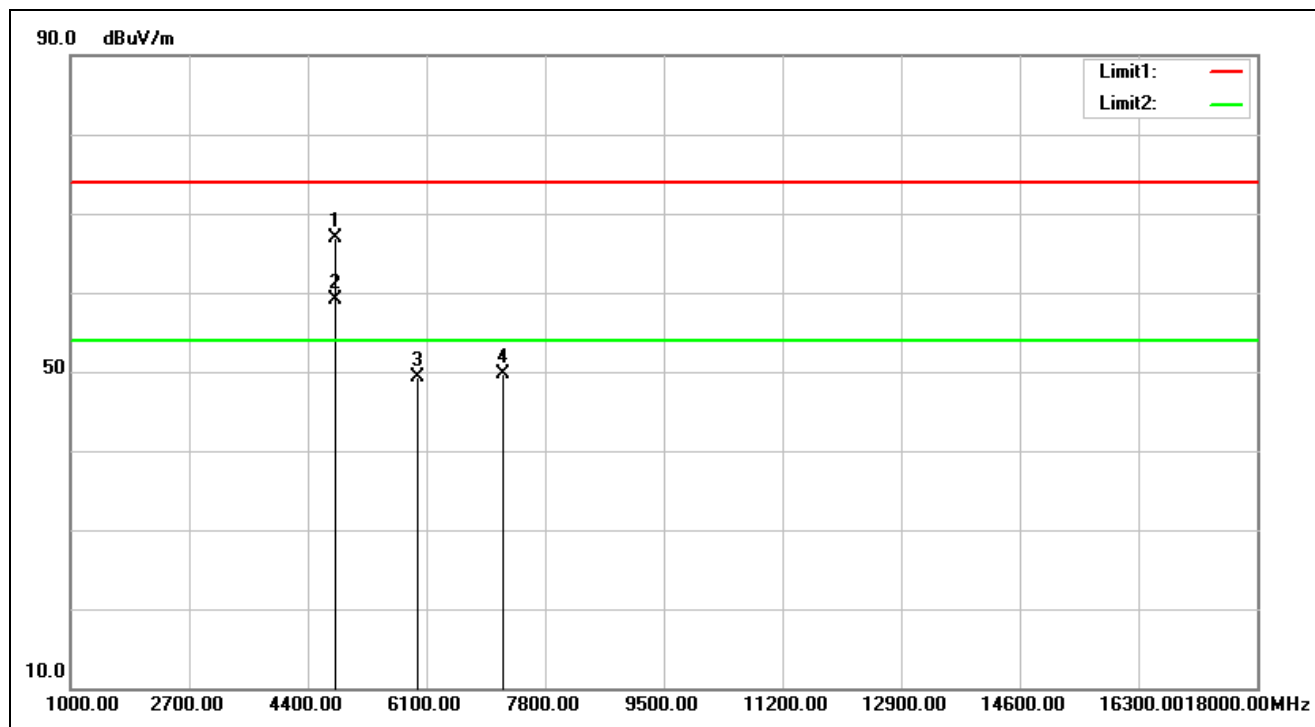
Spurious Emissions, TX Mode, 1-18G



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

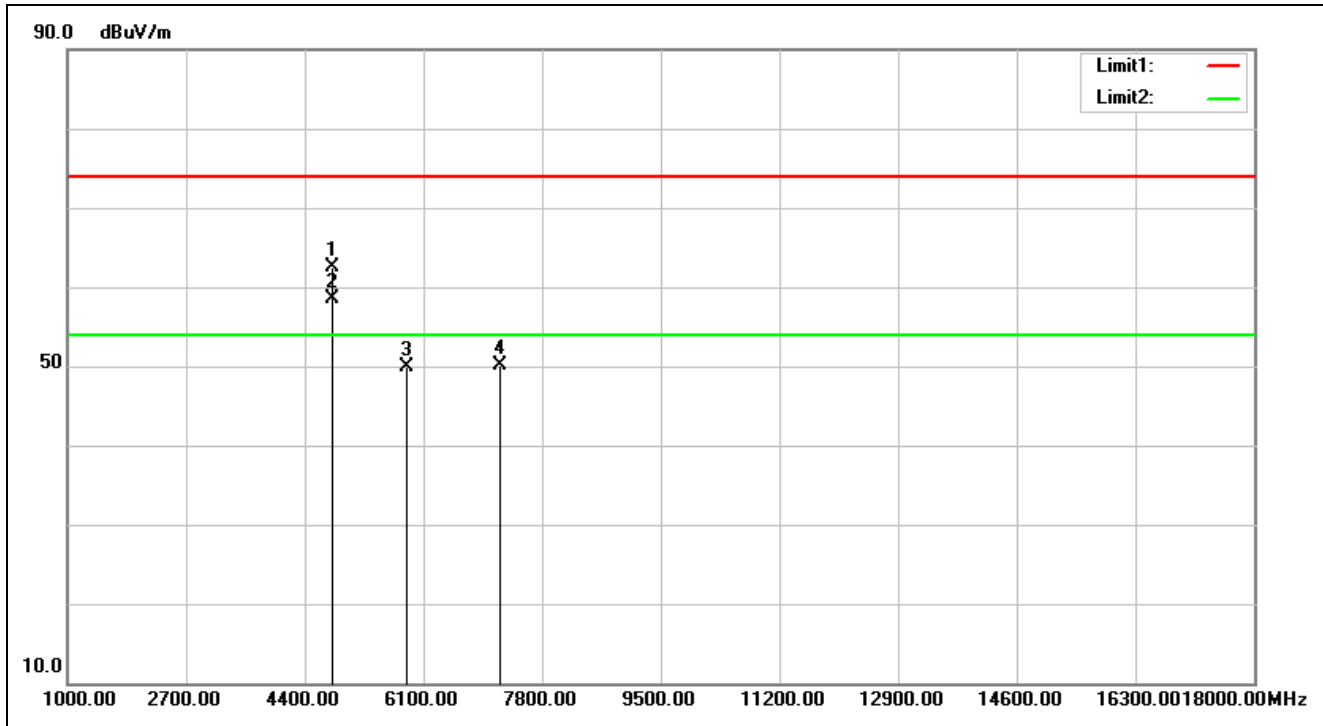
Tel:+886-2172-7000 fax:+886-2528-0018



Service No.:	114069019	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/12/4 20:18:19
Applicant:	MAGNET SYSTEMS IKE	Test Rating:	DC 5V
Product:	Bluetooth Adapter	Temp.(°C)/Hum.(%)	23(°C)/55%
Model No.:	BAL_BAF	Test Engineer:	Amy Hsu
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	-2.71	69.62	66.91	74.00	-7.09	peak	100	199	
2	4804.000	-2.71	61.88	59.17	54.00	5.17	AVG	100	199	
3	5981.000	3.29	46.01	49.30	74.00	-24.70	peak	100	191	
4	7206.000	5.29	44.48	49.77	74.00	-24.23	peak	100	159	

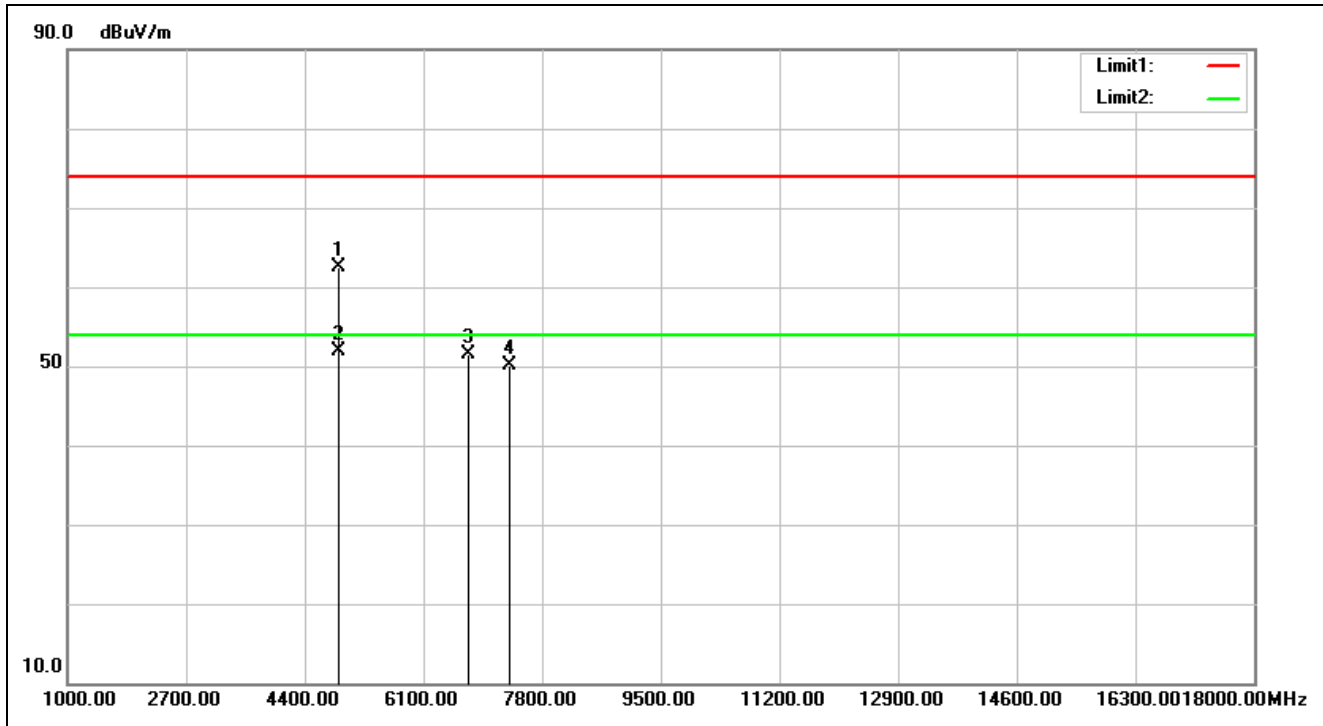
Remark: 4804MHz - Average = Peak –duycycle factor =66.91-20=46.91 dBuV/m



Service No.:	114069019	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/12/4 20:19:22
Applicant:	MAGNET SYSTEMS IKE	Test Rating:	DC 5V
Product:	Bluetooth Adapter	Temp.(°C)/Hum.(%)	23(°C)/55%
Model No.:	BAL_BAF	Test Engineer:	Amy Hsu
Test Mode:	1DH5-2402-TX		
Remark:			

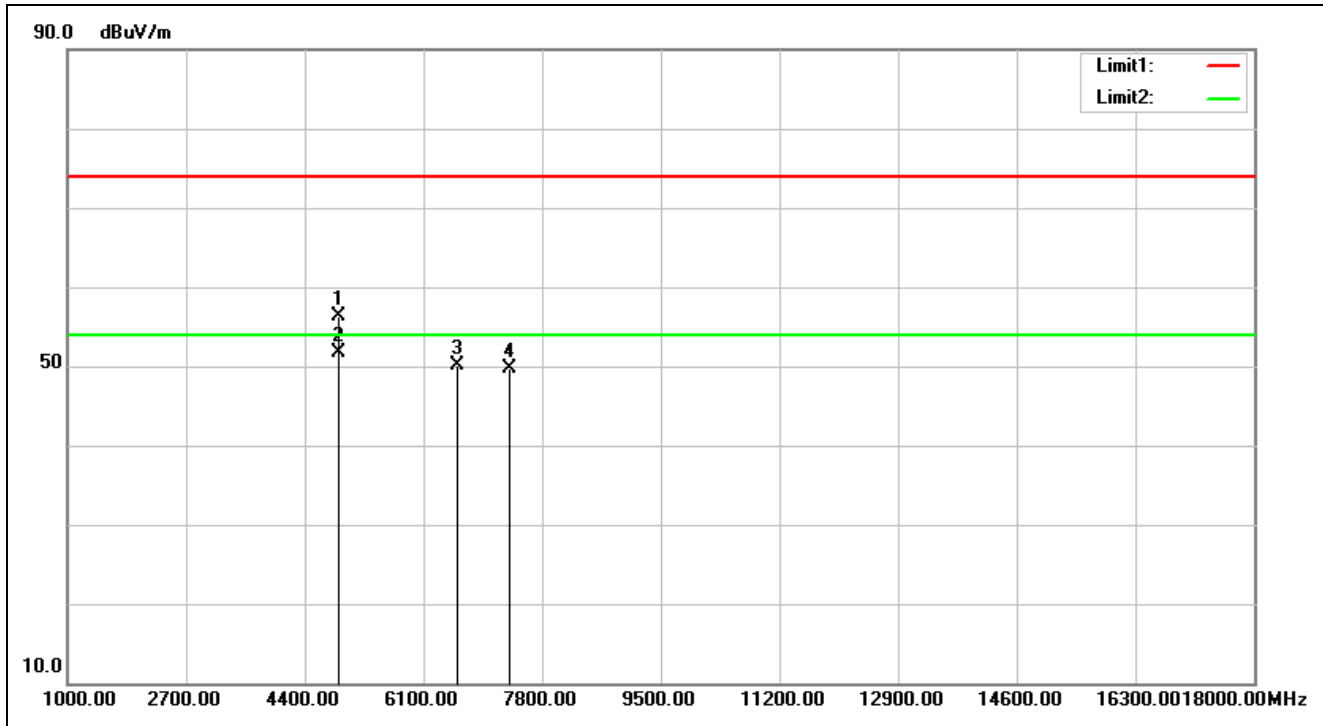
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4804.000	-2.71	65.23	62.52	74.00	-11.48	peak	100	266	
2	4804.000	-2.71	61.16	58.45	54.00	4.45	AVG	100	266	
3	5862.000	2.52	47.35	49.87	74.00	-24.13	peak	100	78	
4	7206.000	5.29	44.73	50.02	74.00	-23.98	peak	100	320	

Remark: 4804MHz - Average = Peak –duycycle factor =62.52-20=42.52 dBuV/m



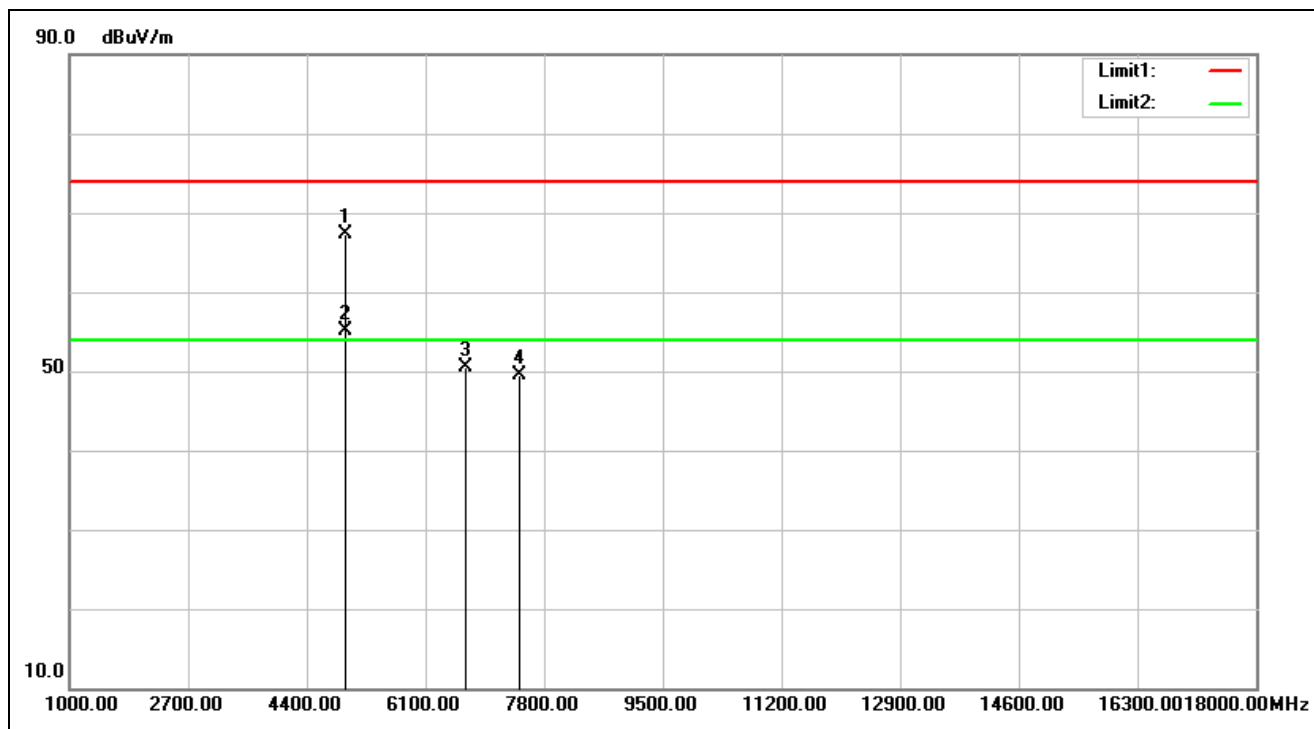
Service No.:	114069019	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/12/4 20:27:01
Applicant:	MAGNET SYSTEMS IKE	Test Rating:	DC 5V
Product:	Bluetooth Adapter	Temp.(°C)/Hum.(%)	23(°C)/55%
Model No.:	BAL_BAF	Test Engineer:	Amy Hsu
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	-2.50	65.08	62.58	74.00	-11.42	peak	100	174	
2	4882.000	-2.50	54.50	52.00	54.00	-2.00	AVG	100	174	
3	6746.000	5.05	46.38	51.43	74.00	-22.57	peak	100	25	
4	7323.000	5.59	44.57	50.16	74.00	-23.84	peak	100	164	



Service No.:	114069019	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/12/4 20:28:04
Applicant:	MAGNET SYSTEMS IKE	Test Rating:	DC 5V
Product:	Bluetooth Adapter	Temp.(°C)/Hum.(%)	23(°C)/55%
Model No.:	BAL_BAF	Test Engineer:	Amy Hsu
Test Mode:	1DH5-2441-TX		
Remark:			

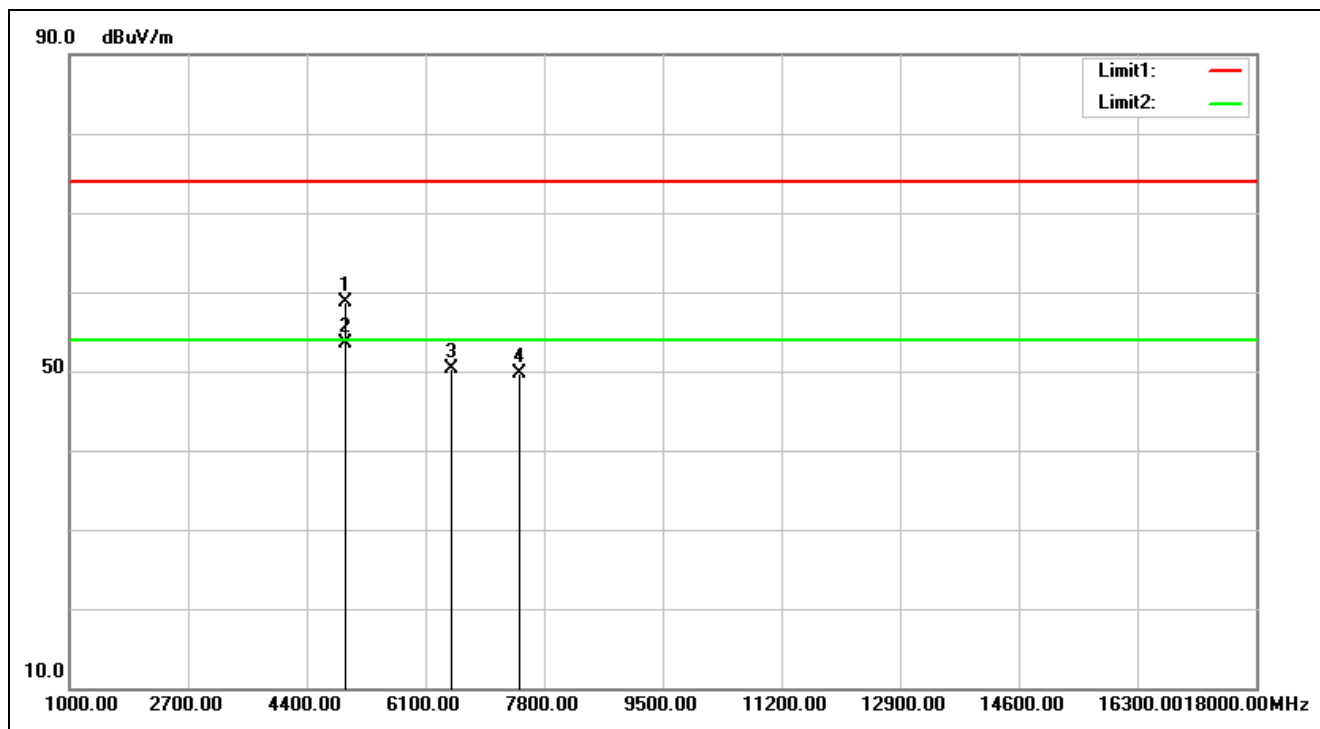
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1	4882.000	-2.50	58.85	56.35	74.00	-17.65	peak	100	263	
2	4882.000	-2.50	54.29	51.79	54.00	-2.21	AVG	100	263	
3	6576.000	5.25	44.87	50.12	74.00	-23.88	peak	100	263	
4	7323.000	5.59	44.14	49.73	74.00	-24.27	peak	100	325	



Service No.:	114069019	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/12/4 20:35:04
Applicant:	MAGNET SYSTEMS IKE	Test Rating:	DC 5V
Product:	Bluetooth Adapter	Temp.(°C)/Hum.(%)	23(°C)/55%
Model No.:	BAL_BAF	Test Engineer:	Amy Hsu
Test Mode:	1DH5-2480-TX		
Remark:			

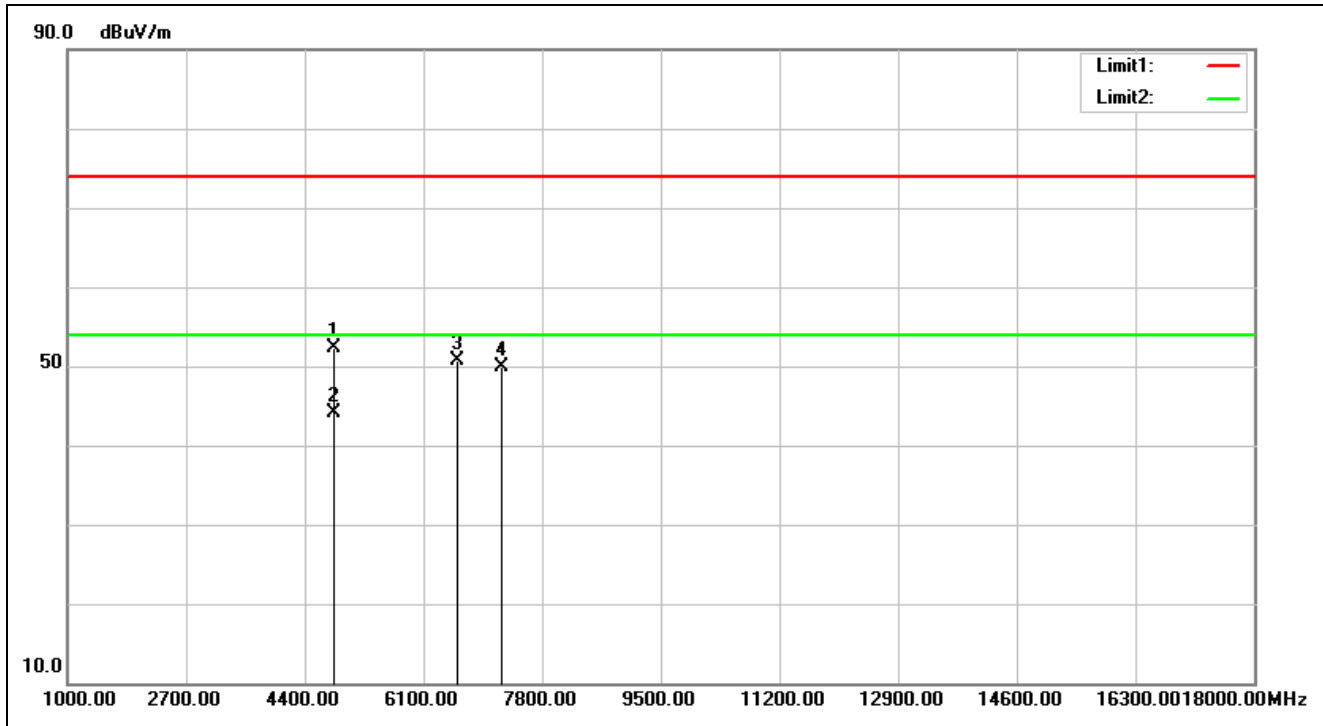
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1	4960.000	-2.29	69.53	67.24	74.00	-6.76	peak	100	183	
2	4960.000	-2.29	57.30	55.01	54.00	1.01	AVG	100	183	
3	6678.000	5.14	45.41	50.55	74.00	-23.45	peak	100	167	
4	7440.000	5.90	43.56	49.46	74.00	-24.54	peak	100	153	

Remark: 4960MHz - Average = Peak –duycycle factor =67.24-20=47.24 dBuV/m



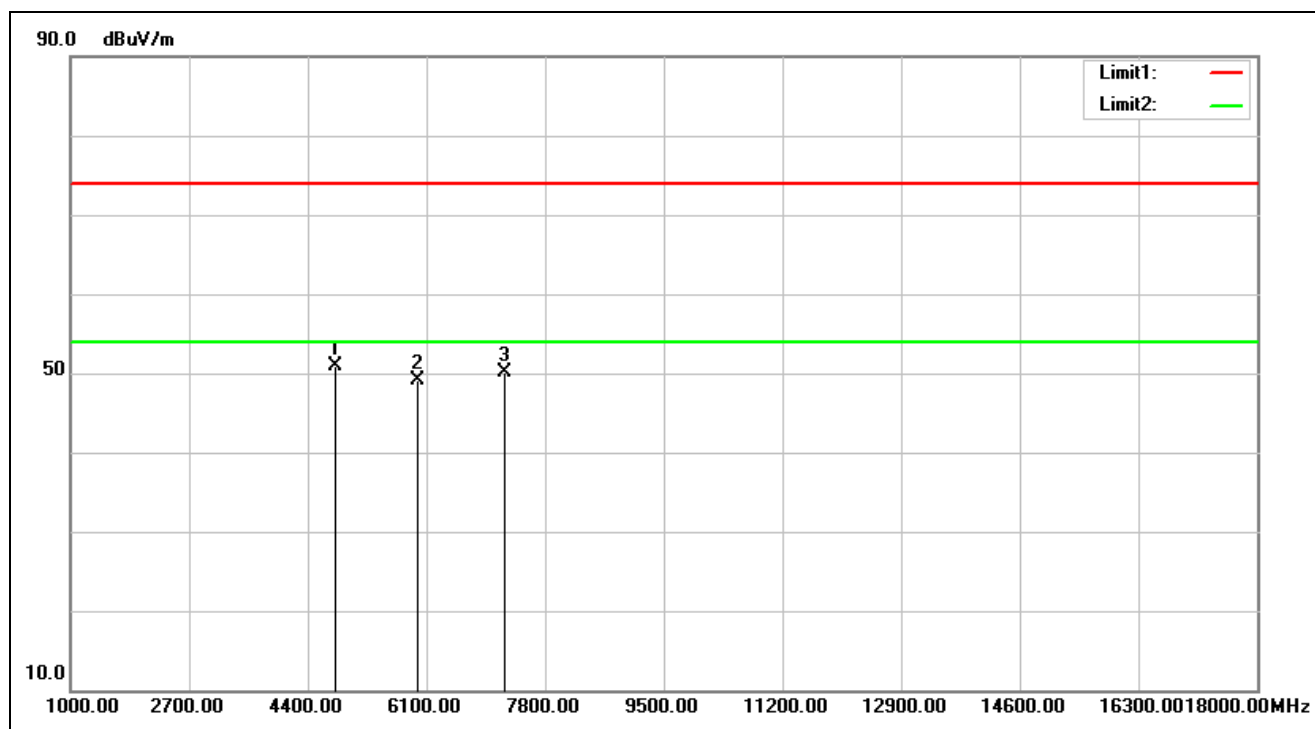
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/12/4 20:36:07
Applicant:	MAGNET SYSTEMS IKE	Test Rating:	DC 5V
Product:	Bluetooth Adapter	Temp.(°C)/Hum.(%)	23(°C)/55%
Model No.:	BAL_BAF	Test Engineer:	Amy Hsu
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	-2.29	60.96	58.67	74.00	-15.33	peak	100	201	
2	4960.000	-2.29	55.88	53.59	54.00	-0.41	AVG	100	201	
3	6474.000	5.25	45.14	50.39	74.00	-23.61	peak	100	323	
4	7440.000	5.90	43.90	49.80	74.00	-24.20	peak	100	159	



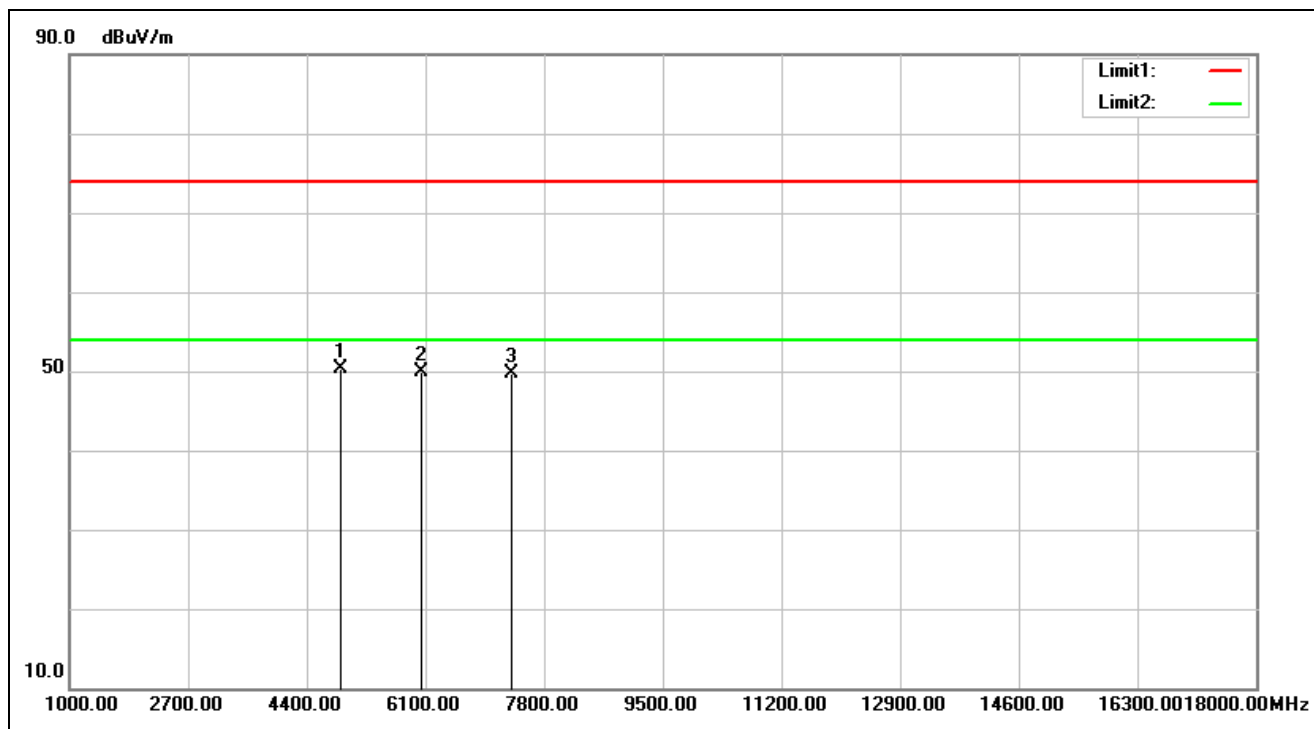
Service No.:	114069019	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/12/4 20:43:10
Applicant:	MAGNET SYSTEMS IKE	Test Rating:	DC 5V
Product:	Bluetooth Adapter	Temp.(°C)/Hum.(%)	23(°C)/55%
Model No.:	BAL_BAF	Test Engineer:	Amy Hsu
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	-2.71	55.07	52.36	74.00	-21.64	peak	100	194	
2	4804.000	-2.71	46.80	44.09	54.00	-9.91	AVG	100	194	
3	6576.000	5.25	45.41	50.66	74.00	-23.34	peak	100	102	
4	7206.000	5.29	44.63	49.92	74.00	-24.08	peak	100	161	



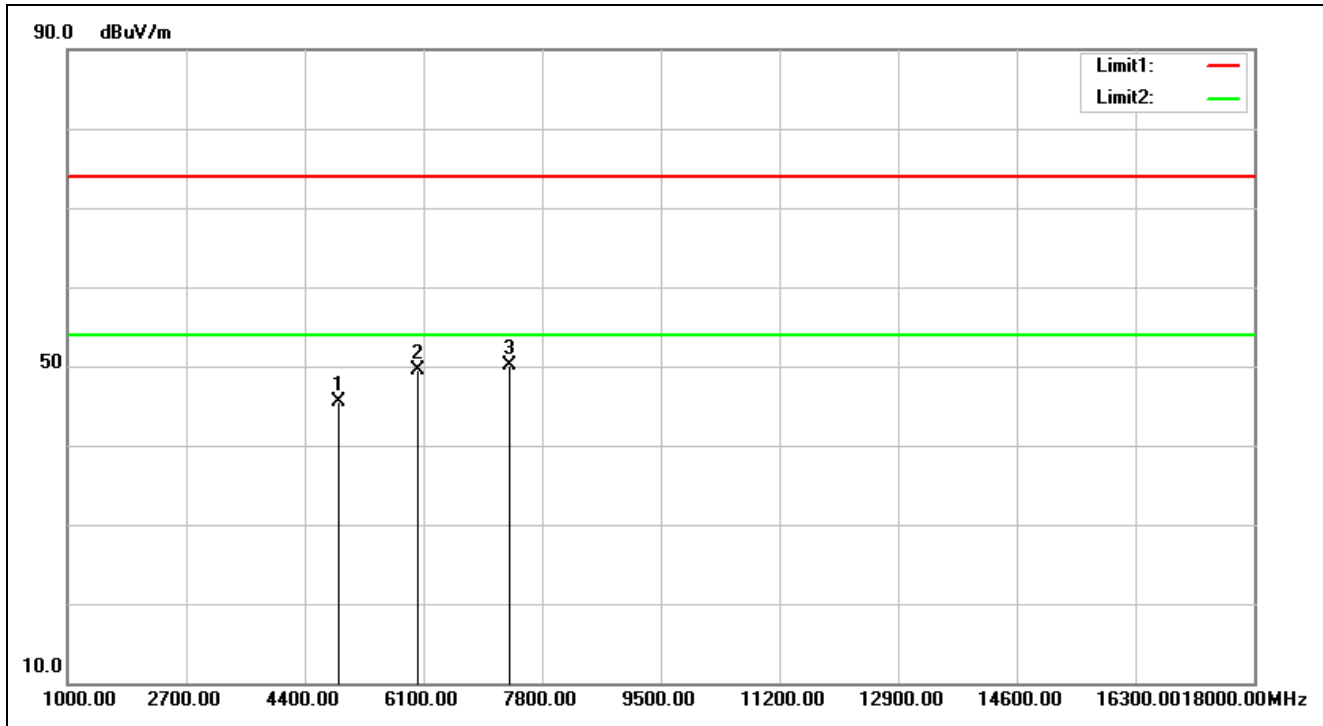
Service No.:	114069019	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/12/4 20:44:14
Applicant:	MAGNET SYSTEMS IKE	Test Rating:	DC 5V
Product:	Bluetooth Adapter	Temp.(°C)/Hum.(%)	23(°C)/55%
Model No.:	BAL_BAF	Test Engineer:	Amy Hsu
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	-2.71	53.58	50.87	74.00	-23.13	peak	100	92	
2	5964.000	3.19	45.94	49.13	74.00	-24.87	peak	100	73	
3	7206.000	5.29	44.80	50.09	74.00	-23.91	peak	100	167	



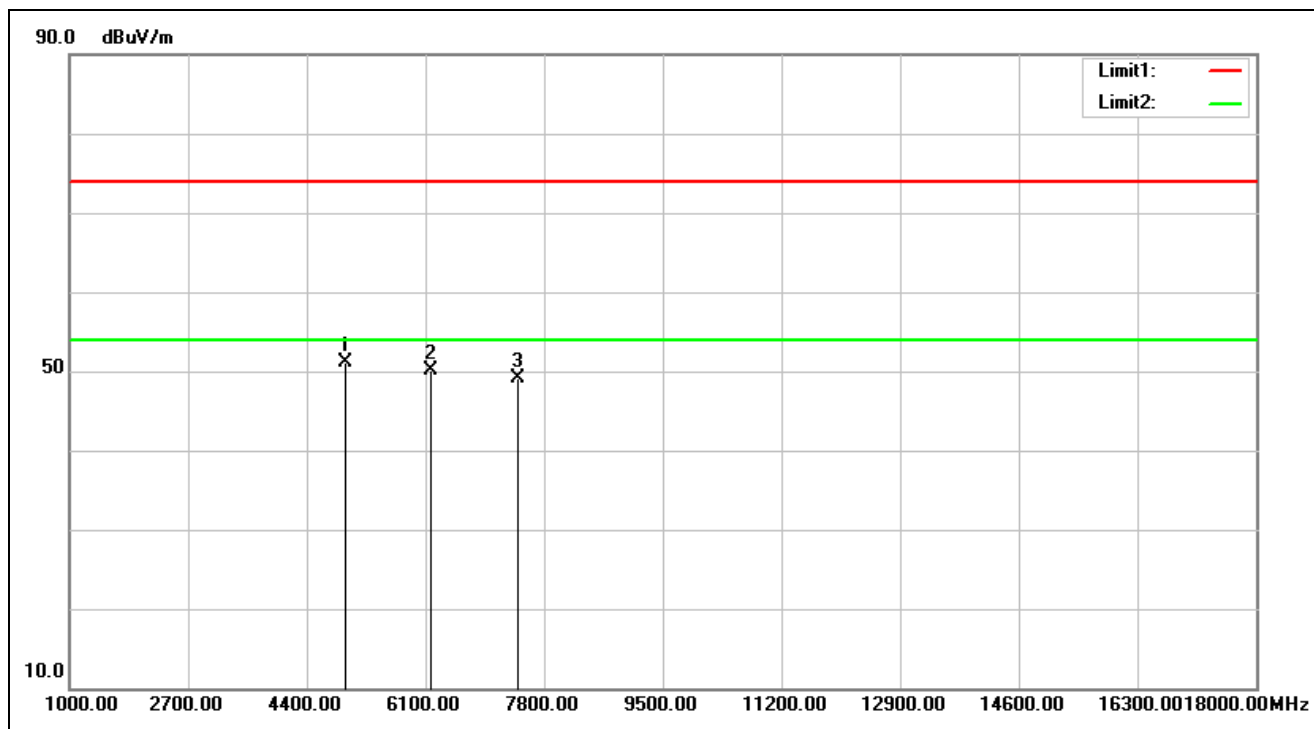
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/12/4 20:49:42
Applicant:	MAGNET SYSTEMS IKE	Test Rating:	DC 5V
Product:	Bluetooth Adapter	Temp.(°C)/Hum.(%)	23(°C)/55%
Model No.:	BAL_BAF	Test Engineer:	Amy Hsu
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	-2.50	52.77	50.27	74.00	-23.73	peak	100	199	
2	6049.000	3.61	46.29	49.90	74.00	-24.10	peak	100	348	
3	7323.000	5.59	44.14	49.73	74.00	-24.27	peak	100	174	



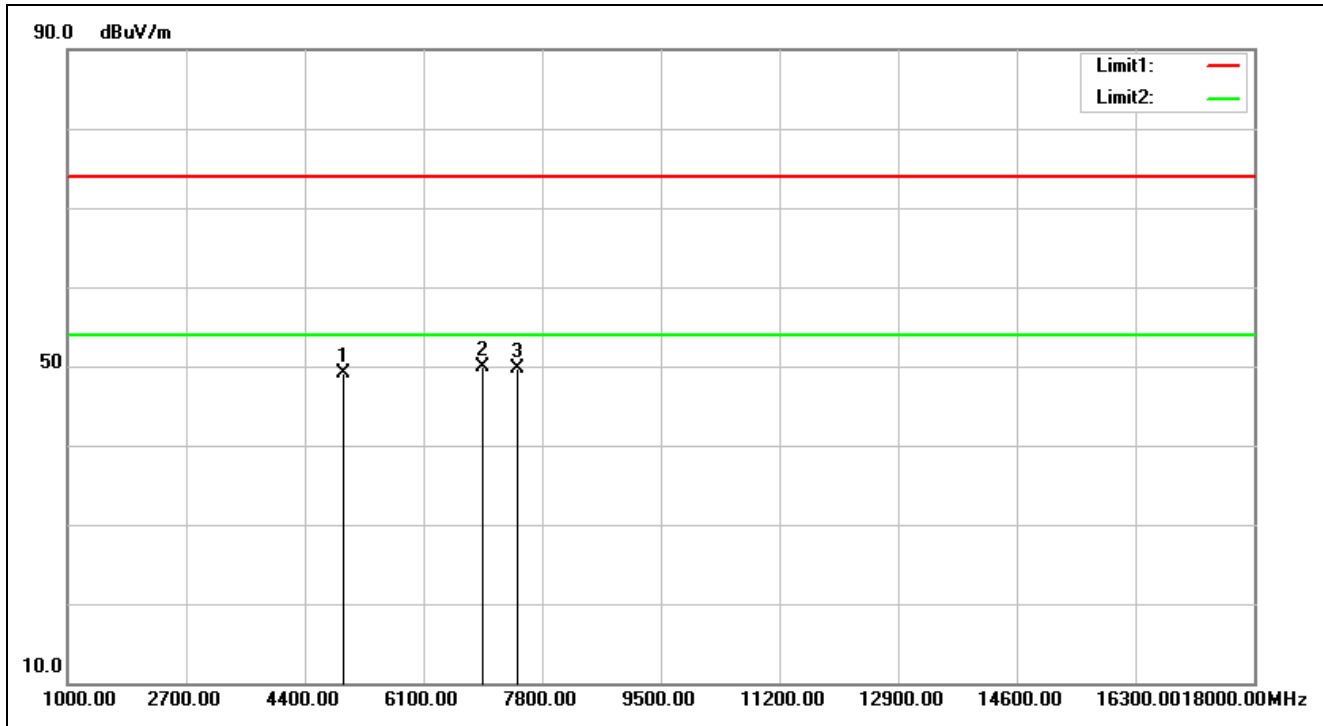
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/12/4 20:50:45
Applicant:	MAGNET SYSTEMS IKE	Test Rating:	DC 5V
Product:	Bluetooth Adapter	Temp.(°C)/Hum.(%)	23(°C)/55%
Model No.:	BAL_BAF	Test Engineer:	Amy Hsu
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	-2.50	47.92	45.42	74.00	-28.58	peak	100	354	
2	6015.000	3.48	46.08	49.56	74.00	-24.44	peak	100	58	
3	7323.000	5.59	44.58	50.17	74.00	-23.83	peak	100	257	



Service No.:	114069019	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/12/4 20:53:01
Applicant:	MAGNET SYSTEMS IKE	Test Rating:	DC 5V
Product:	Bluetooth Adapter	Temp.(°C)/Hum.(%)	23(°C)/55%
Model No.:	BAL_BAF	Test Engineer:	Amy Hsu
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	-2.29	53.45	51.16	74.00	-22.84	peak	100	205	
2	6185.000	4.13	46.07	50.20	74.00	-23.80	peak	100	113	
3	7440.000	5.90	43.22	49.12	74.00	-24.88	peak	100	127	



Service No.:	114069019	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/12/4 20:54:04
Applicant:	MAGNET SYSTEMS IKE	Test Rating:	DC 5V
Product:	Bluetooth Adapter	Temp.(°C)/Hum.(%)	23(°C)/55%
Model No.:	BAL_BAF	Test Engineer:	Amy Hsu
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	-2.29	51.45	49.16	74.00	-24.84	peak	100	234	
2	6950.000	4.81	45.18	49.99	74.00	-24.01	peak	100	155	
3	7440.000	5.90	43.81	49.71	74.00	-24.29	peak	100	45	

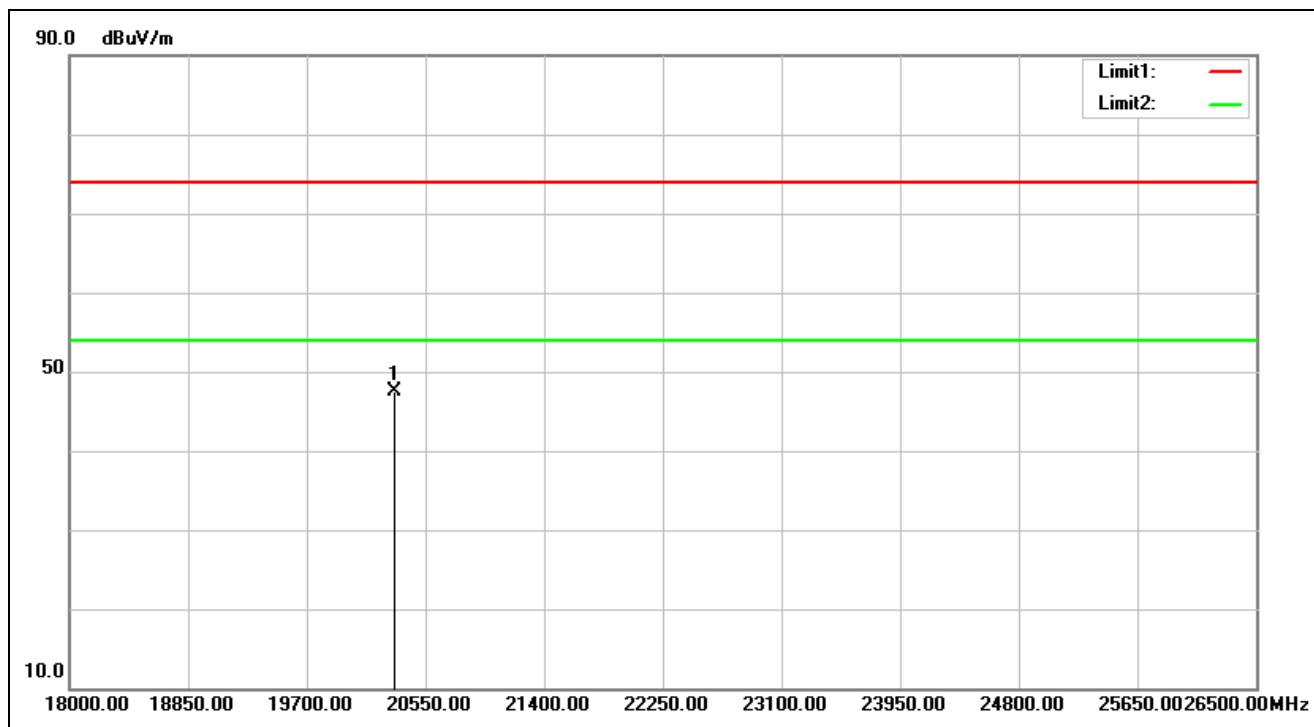
Spurious Emissions, TX Mode, 18-26G



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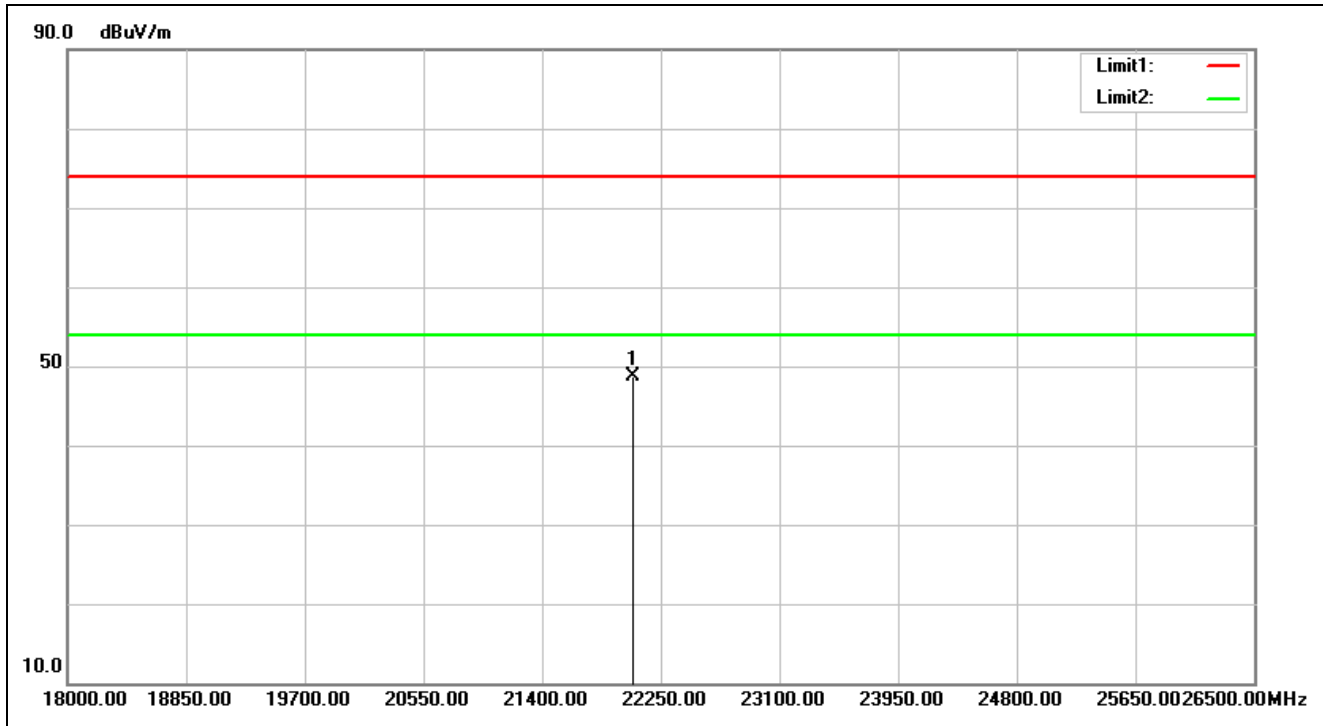
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



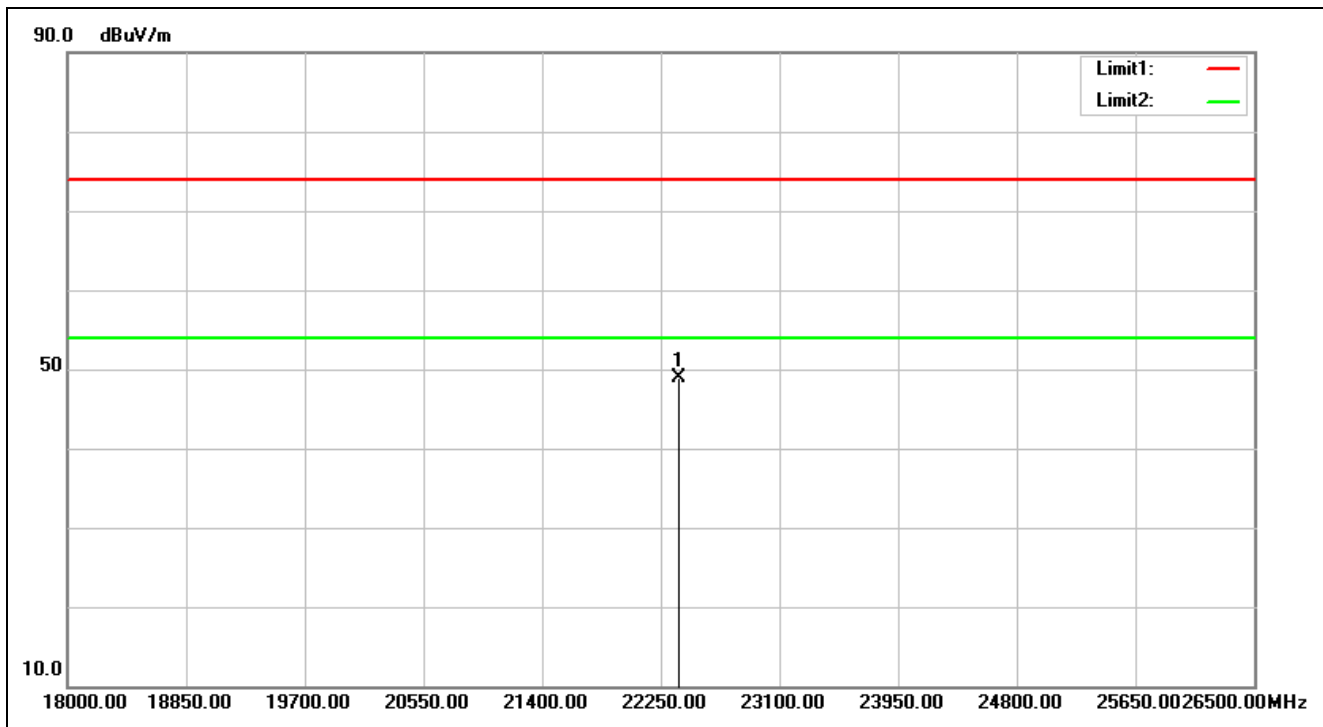
Service No.:	114069019	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/12/4 21:13:09
Applicant:	MAGNET SYSTEMS IKE	Test Rating:	DC 5V
Product:	Bluetooth Adapter	Temp.(°C)/Hum.(%)	23(°C)/55%
Model No.:	BAL_BAF	Test Engineer:	Amy Hsu
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	20329.000	30.82	16.78	47.60	74.00	-26.40	peak	100	227	



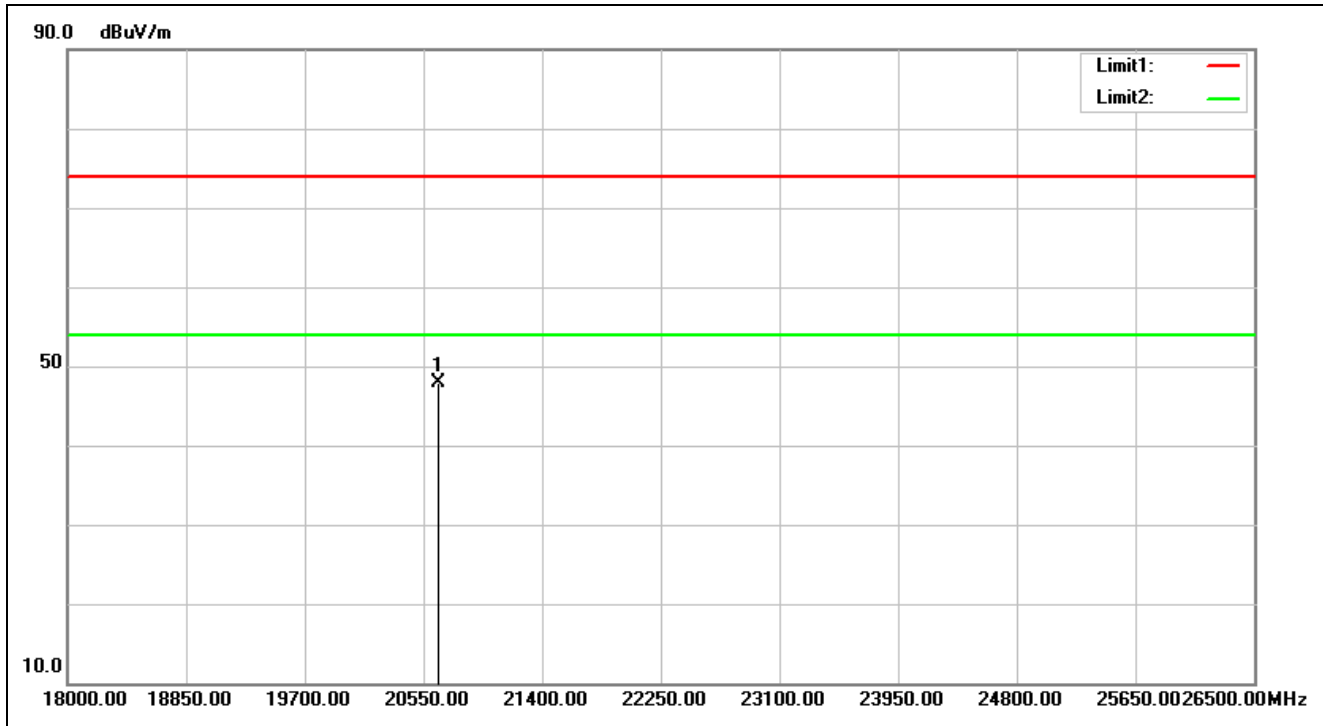
Service No.:	114069019	Test Distance:	3m
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Test item:	Radiation Emission	Test Time:	2017/12/4 21:12:56
Applicant:	MAGNET SYSTEMS IKE	Test Rating:	DC 5V
Product:	Bluetooth Adapter	Temp.(°C)/Hum.(%):	23(°C)/55%
Model No.:	BAL_BAF	Test Engineer:	Amy Hsu
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	22046.000	32.55	16.13	48.68	74.00	-25.32	peak	100	162	



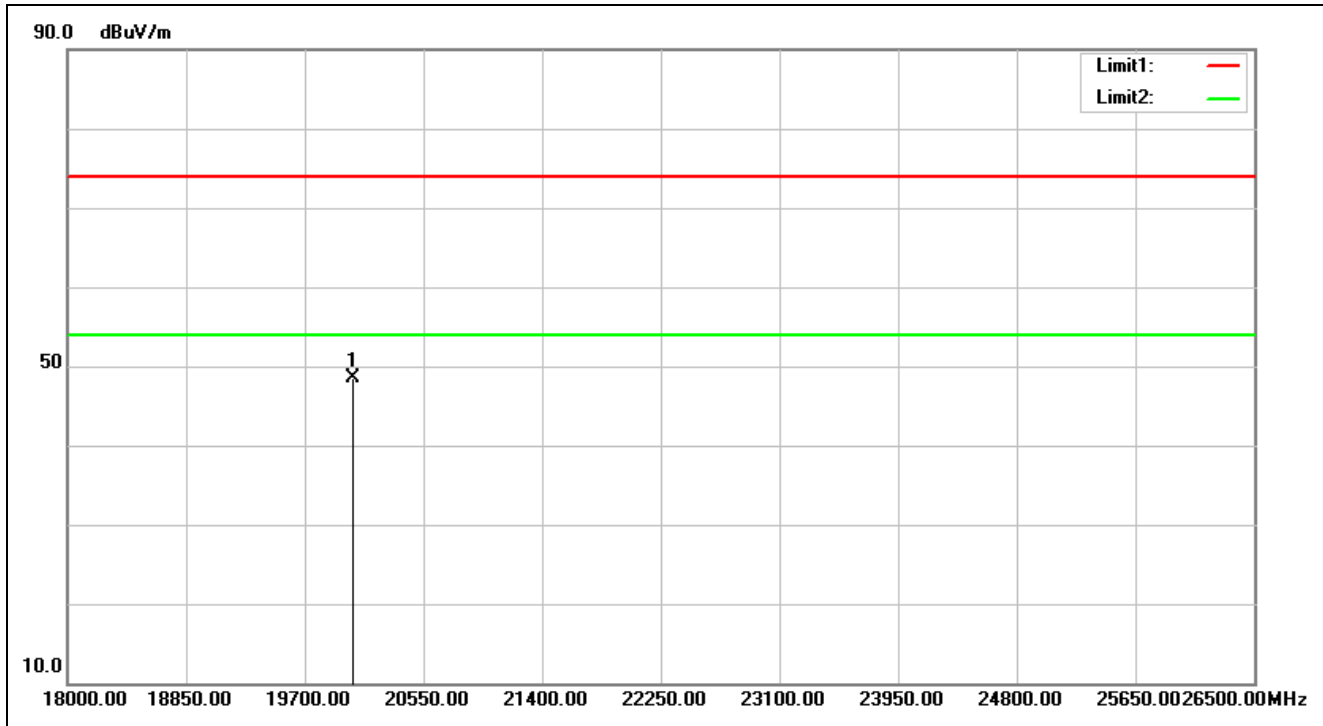
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/12/4 21:13:30
Applicant:	MAGNET SYSTEMS IKE	Test Rating:	DC 5V
Product:	Bluetooth Adapter	Temp.(°C)/Hum.(%)	23(°C)/55%
Model No.:	BAL_BAF	Test Engineer:	Amy Hsu
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	22377.500	32.32	16.52	48.84	74.00	-25.16	peak	100	236	



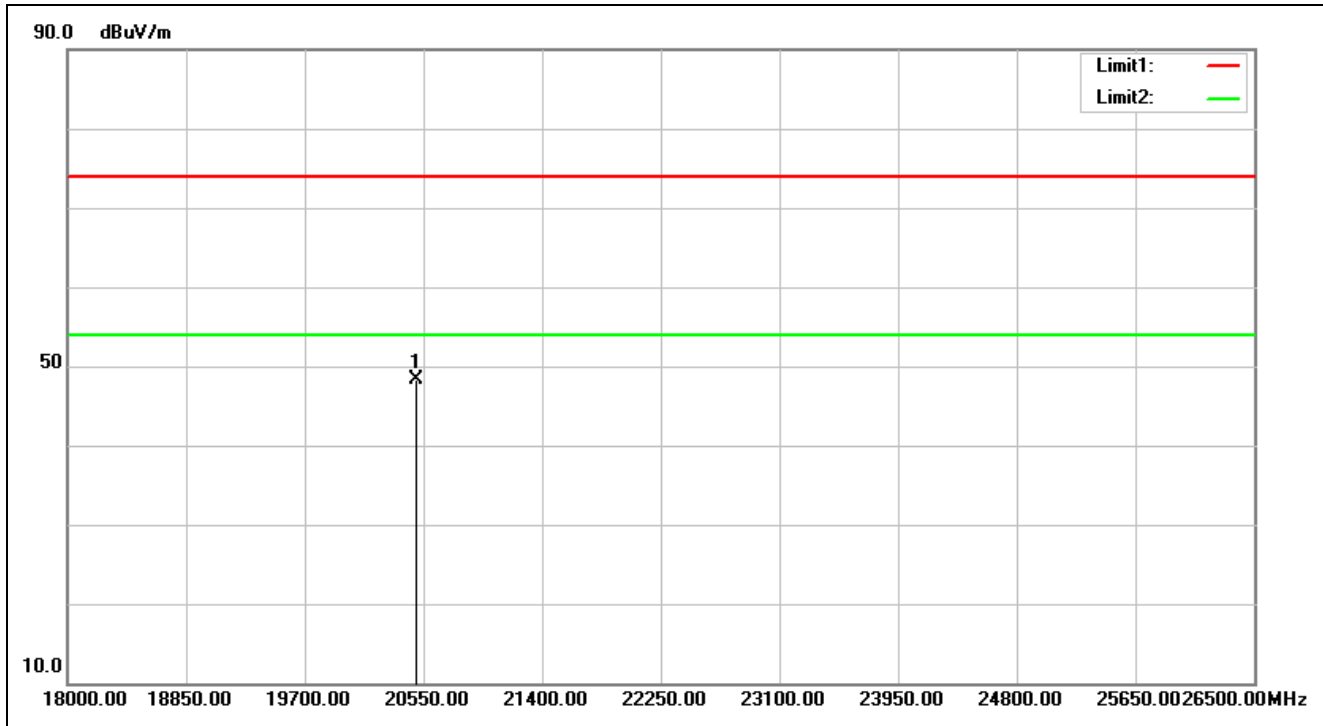
Service No.:	114069019	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/12/4 21:13:43
Applicant:	MAGNET SYSTEMS IKE	Test Rating:	DC 5V
Product:	Bluetooth Adapter	Temp.(°C)/Hum.(%):	23(°C)/55%
Model No.:	BAL_BAF	Test Engineer:	Amy Hsu
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	20660.500	31.06	16.87	47.93	74.00	-26.07	peak	100	241	



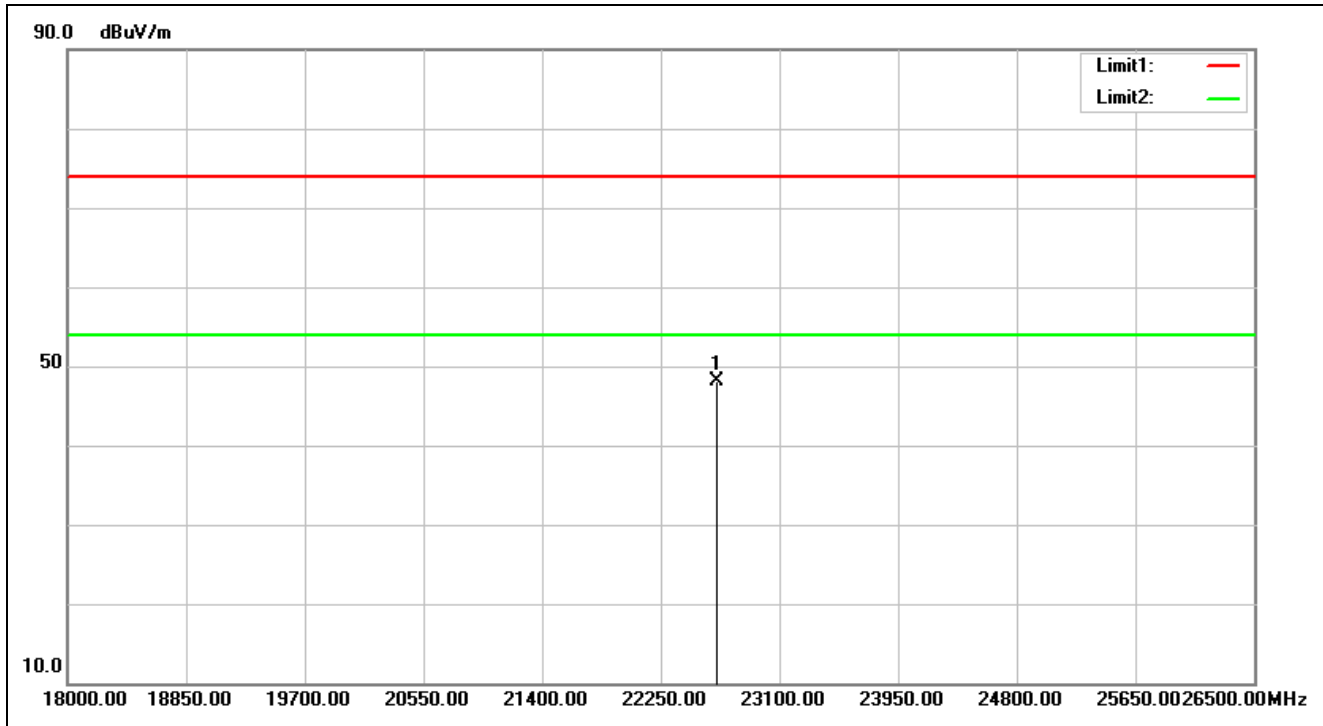
Service No.:	114069019	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/12/4 21:14:04
Applicant:	MAGNET SYSTEMS IKE	Test Rating:	DC 5V
Product:	Bluetooth Adapter	Temp.(°C)/Hum.(%):	23(°C)/55%
Model No.:	BAL_BAF	Test Engineer:	Amy Hsu
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	20048.500	30.60	17.99	48.59	74.00	-25.41	peak	100	157	



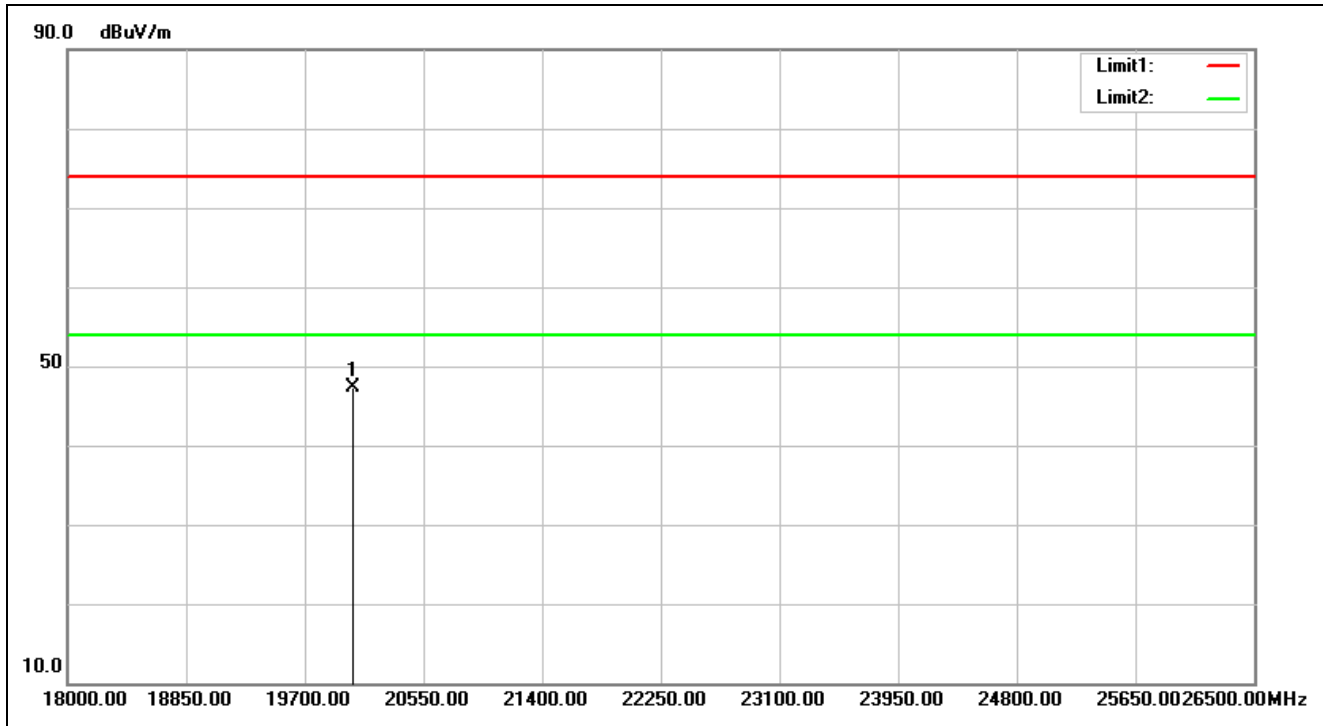
Service No.:	114069019	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/12/4 21:14:16
Applicant:	MAGNET SYSTEMS IKE	Test Rating:	DC 5V
Product:	Bluetooth Adapter	Temp.(°C)/Hum.(%)	23(°C)/55%
Model No.:	BAL_BAF	Test Engineer:	Amy Hsu
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	20499.000	30.96	17.25	48.21	74.00	-25.79	peak	100	123	



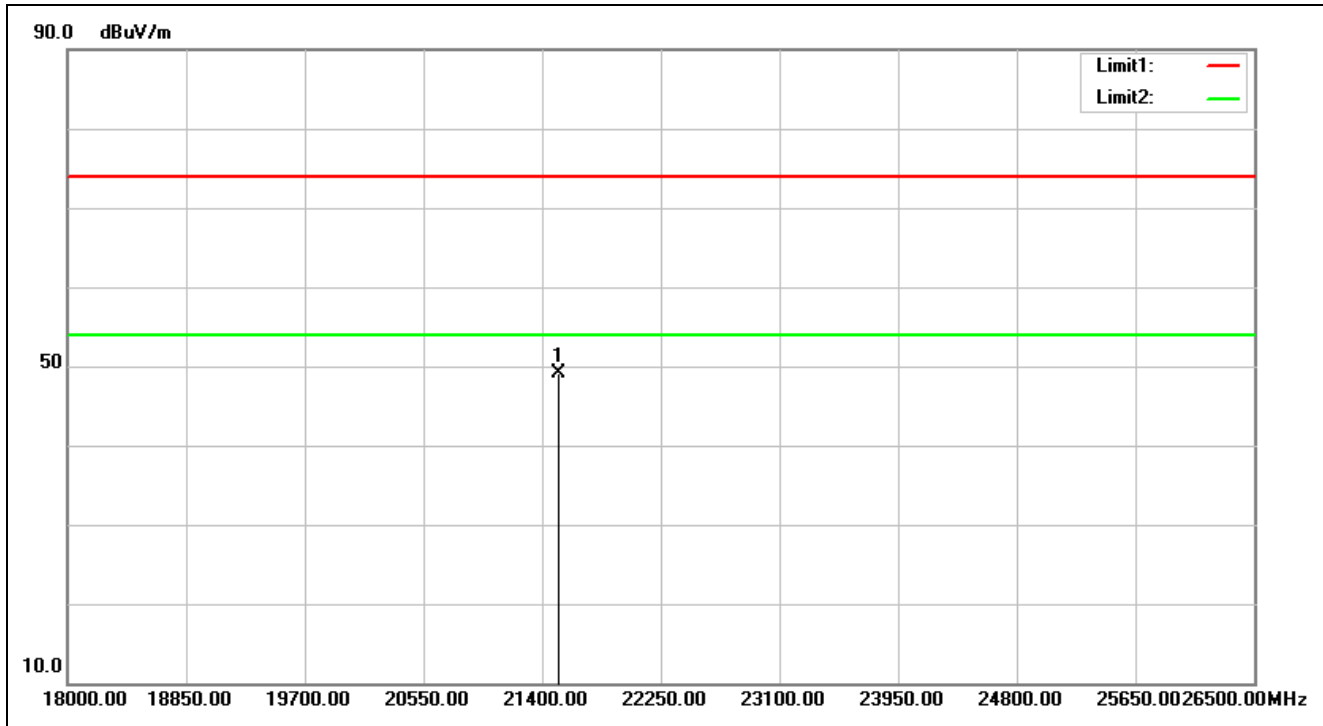
Service No.:	114069019	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/12/4 21:14:44
Applicant:	MAGNET SYSTEMS IKE	Test Rating:	DC 5V
Product:	Bluetooth Adapter	Temp.(°C)/Hum.(%):	23(°C)/55%
Model No.:	BAL_BAF	Test Engineer:	Amy Hsu
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	22649.500	32.15	15.90	48.05	74.00	-25.95	peak	100	177	



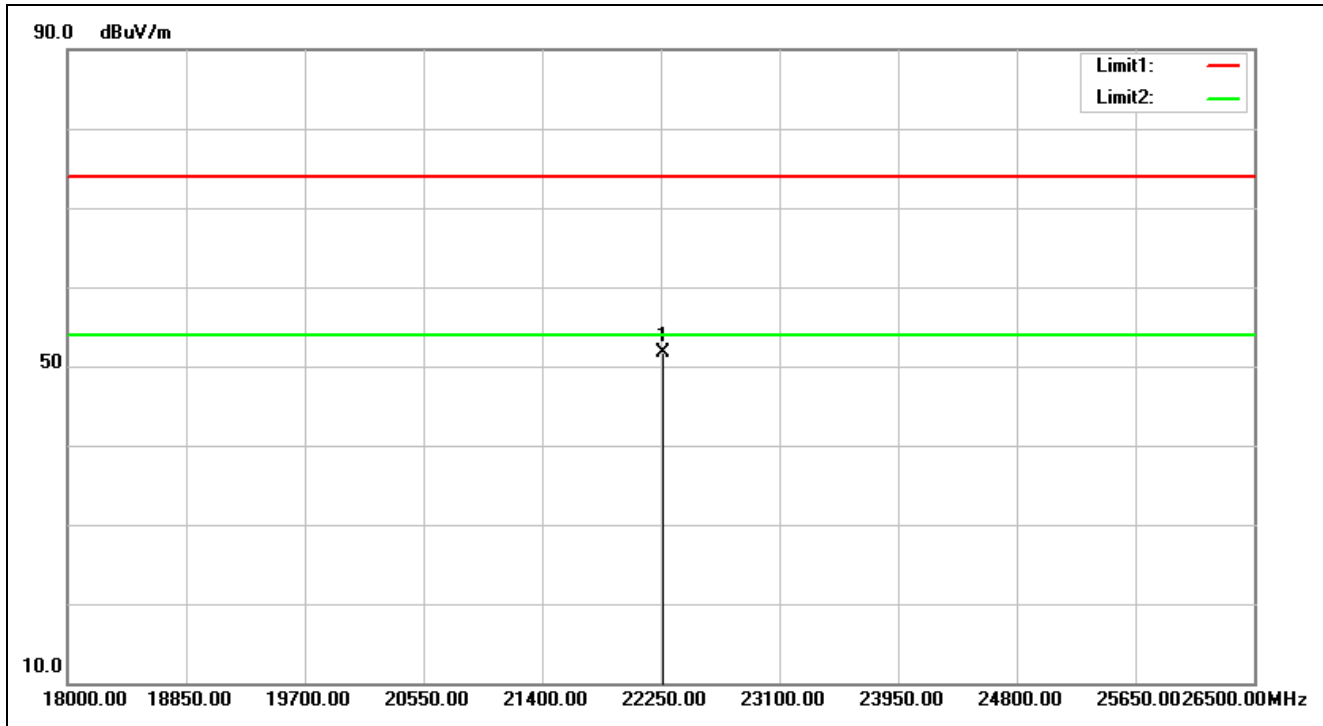
Service No.:	114069019	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/12/4 21:14:55
Applicant:	MAGNET SYSTEMS IKE	Test Rating:	DC 5V
Product:	Bluetooth Adapter	Temp.(°C)/Hum.(%):	23(°C)/55%
Model No.:	BAL_BAF	Test Engineer:	Amy Hsu
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	20048.500	30.60	16.65	47.25	74.00	-26.75	peak	100	188	



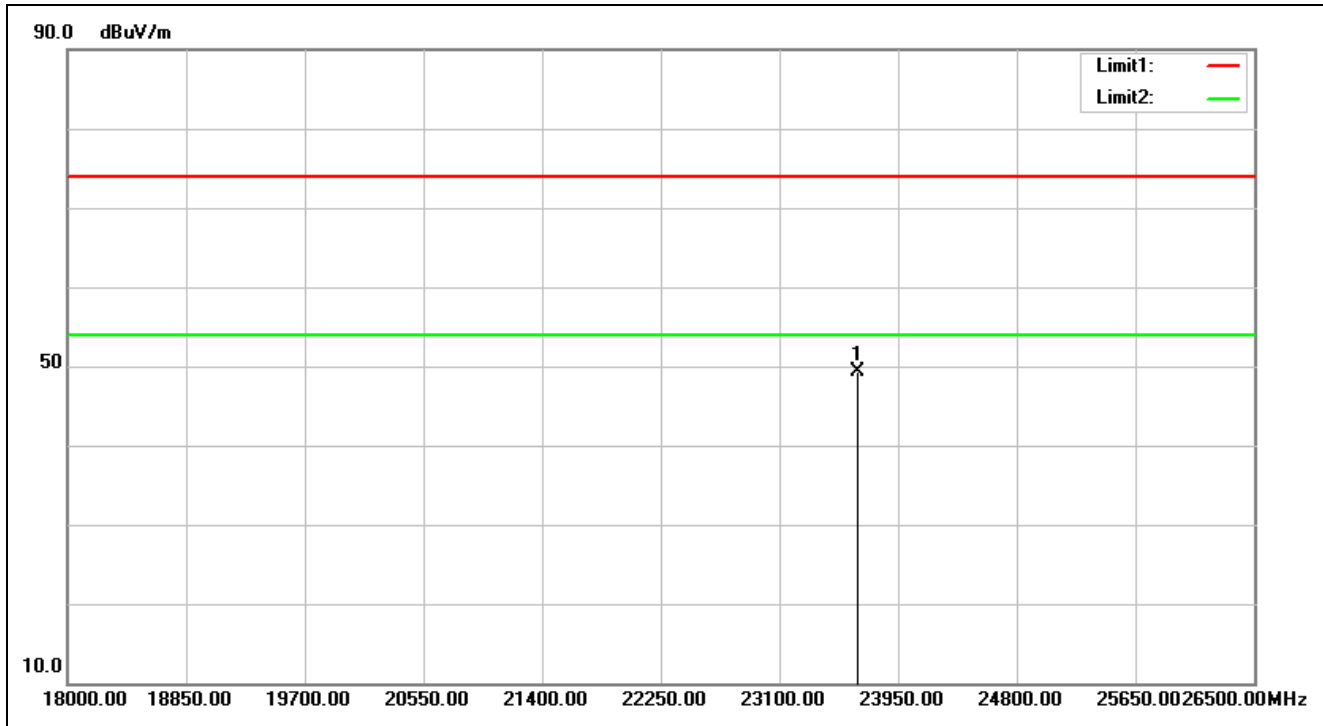
Service No.:	114069019	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/12/4 21:15:13
Applicant:	MAGNET SYSTEMS IKE	Test Rating:	DC 5V
Product:	Bluetooth Adapter	Temp.(°C)/Hum.(%)	23(°C)/55%
Model No.:	BAL_BAF	Test Engineer:	Amy Hsu
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	21519.000	32.05	17.12	49.17	74.00	-24.83	peak	100	154	



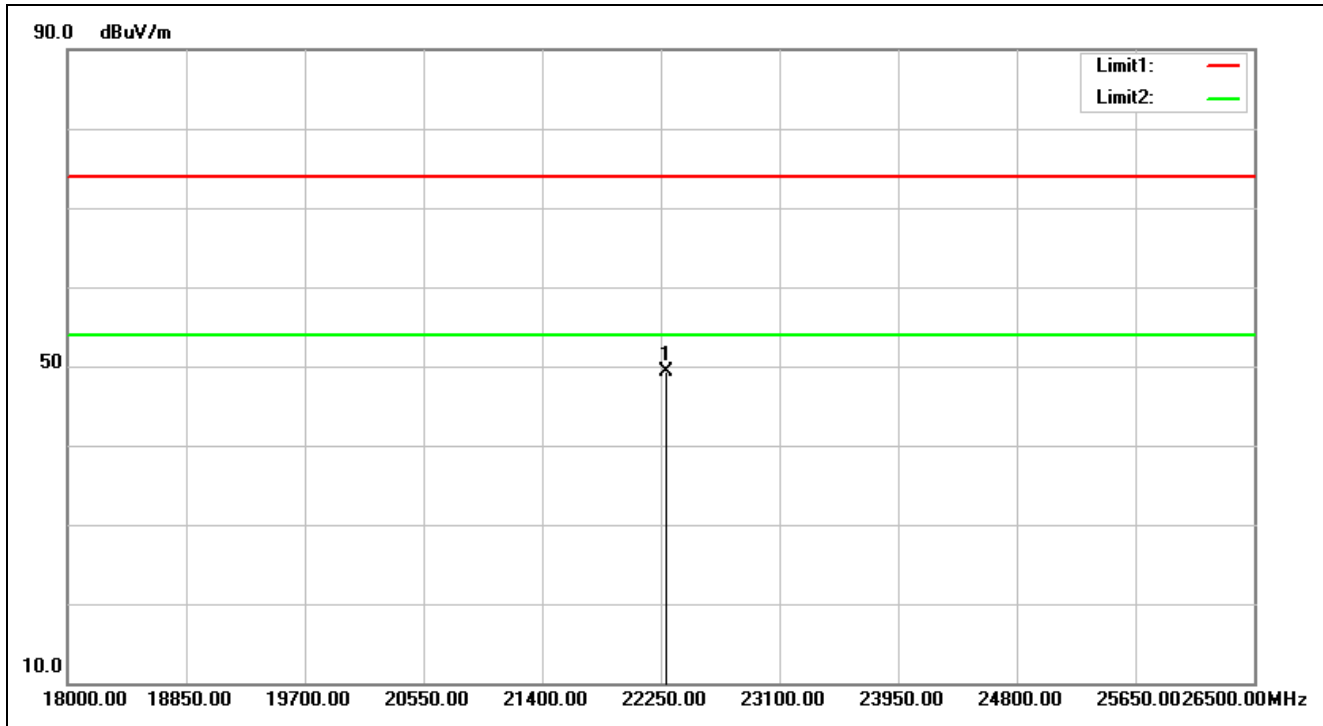
Service No.:	114069019	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/12/4 21:15:36
Applicant:	MAGNET SYSTEMS IKE	Test Rating:	DC 5V
Product:	Bluetooth Adapter	Temp.(°C)/Hum.(%):	23(°C)/55%
Model No.:	BAL_BAF	Test Engineer:	Amy Hsu
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	22267.000	32.40	19.26	51.66	74.00	-22.34	peak	100	135	



Service No.:	114069019	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/12/4 21:15:59
Applicant:	MAGNET SYSTEMS IKE	Test Rating:	DC 5V
Product:	Bluetooth Adapter	Temp.(°C)/Hum.(%):	23(°C)/55%
Model No.:	BAL_BAF	Test Engineer:	Amy Hsu
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	23661.000	32.17	17.13	49.30	74.00	-24.70	peak	100	157	



Service No.:	114069019	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/12/4 21:16:12
Applicant:	MAGNET SYSTEMS IKE	Test Rating:	DC 5V
Product:	Bluetooth Adapter	Temp.(°C)/Hum.(%)	23(°C)/55%
Model No.:	BAL_BAF	Test Engineer:	Amy Hsu
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	22292.500	32.38	16.94	49.32	74.00	-24.68	peak	100	162	

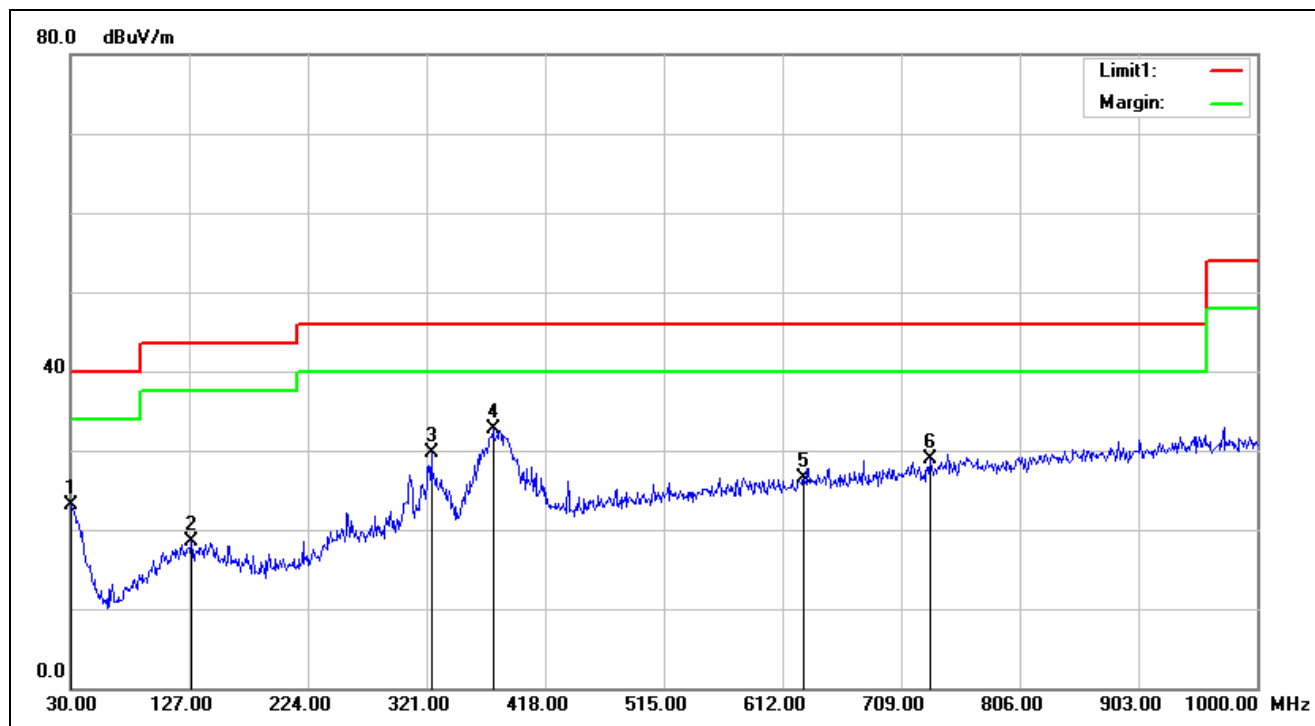
Spurious Emissions, TX Mode, 30M-1G



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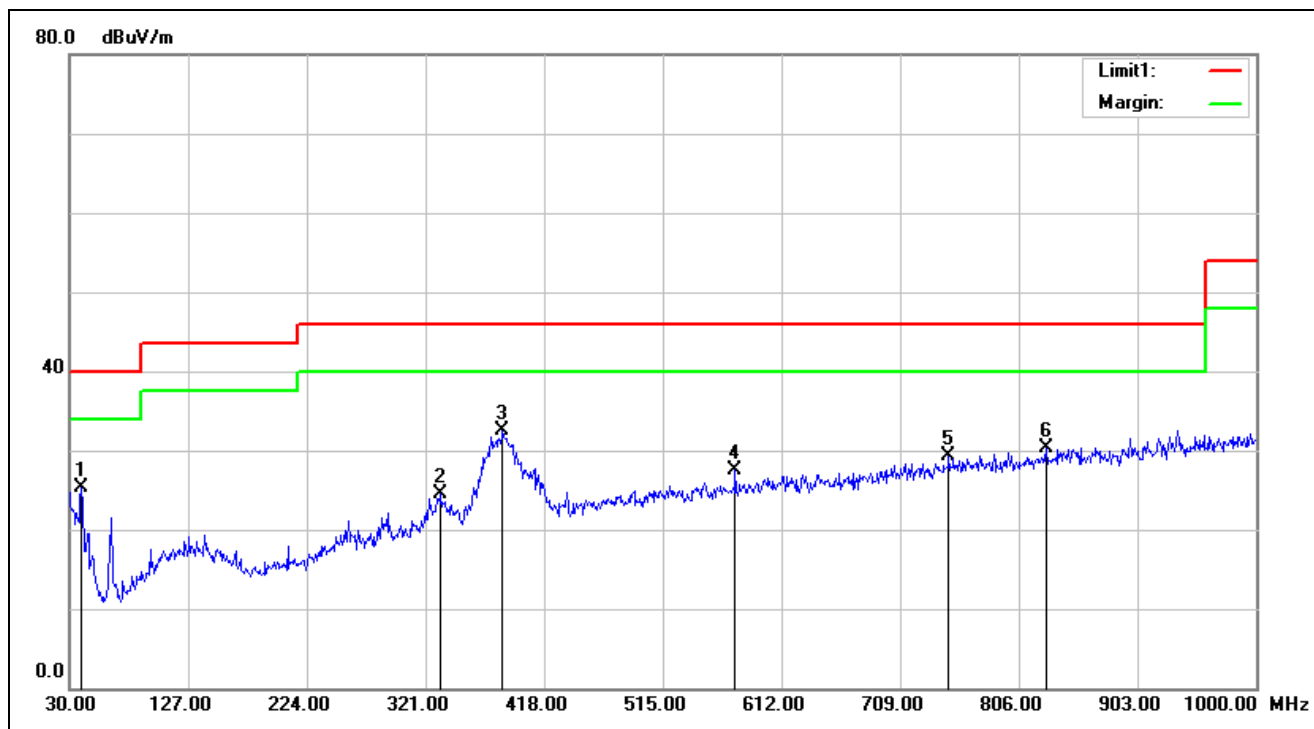
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



Service No.:	114069019	Test Distance:	3m
Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/12/4 21:47:11
Applicant:	MAGNET SYSTEMS IKE	Test Rating:	DC 5V
Product:	Bluetooth Adapter	Temp.(°C)/Hum.(%)	23(°C)/55%
Model No.:	BAL_BAF	Test Engineer:	Amy Hsu
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	-0.79	23.83	23.04	40.00	-16.96	QP	100	38	
2	128.9400	-7.21	25.73	18.52	43.50	-24.98	QP	100	319	
3	324.8800	-3.95	33.68	29.73	46.00	-16.27	QP	100	139	
4	375.3200	-2.88	35.51	32.63	46.00	-13.37	QP	100	136	
5	629.4600	0.35	26.21	26.56	46.00	-19.44	QP	100	27	
6	732.2800	1.99	26.96	28.95	46.00	-17.05	QP	100	158	



Service No.:	114069019	Test Distance:	3m
Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/12/4 21:48:14
Applicant:	MAGNET SYSTEMS IKE	Test Rating:	DC 5V
Product:	Bluetooth Adapter	Temp.(°C)/Hum.(%)	23(°C)/55%
Model No.:	BAL_BAF	Test Engineer:	Amy Hsu
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	39.7000	-5.68	31.01	25.33	40.00	-14.67	QP	100	20	
2	333.6100	-3.74	28.27	24.53	46.00	-21.47	QP	100	166	
3	384.0500	-2.72	35.15	32.43	46.00	-13.57	QP	100	185	
4	574.1700	-0.20	27.78	27.58	46.00	-18.42	QP	100	271	
5	748.7700	2.34	26.89	29.23	46.00	-16.77	QP	100	306	
6	828.3100	3.31	26.97	30.28	46.00	-15.72	QP	100	287	

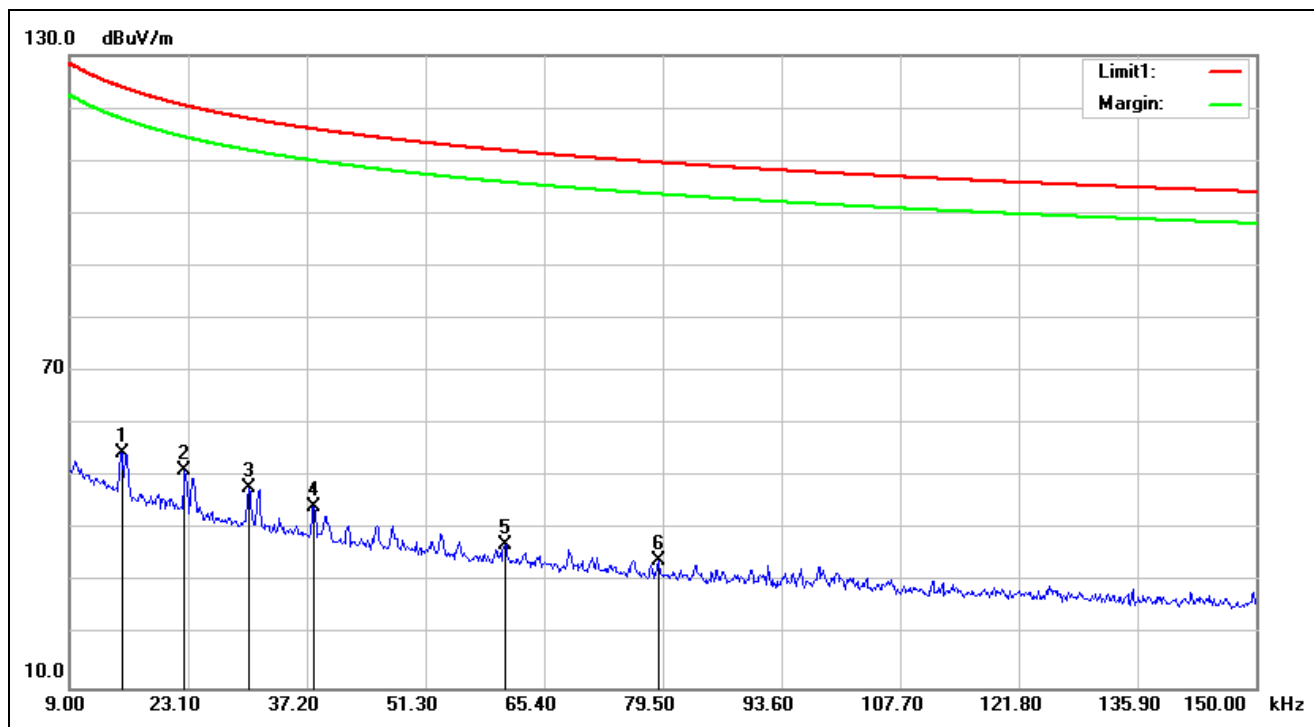
Spurious Emissions, TX Mode, 9K-150K



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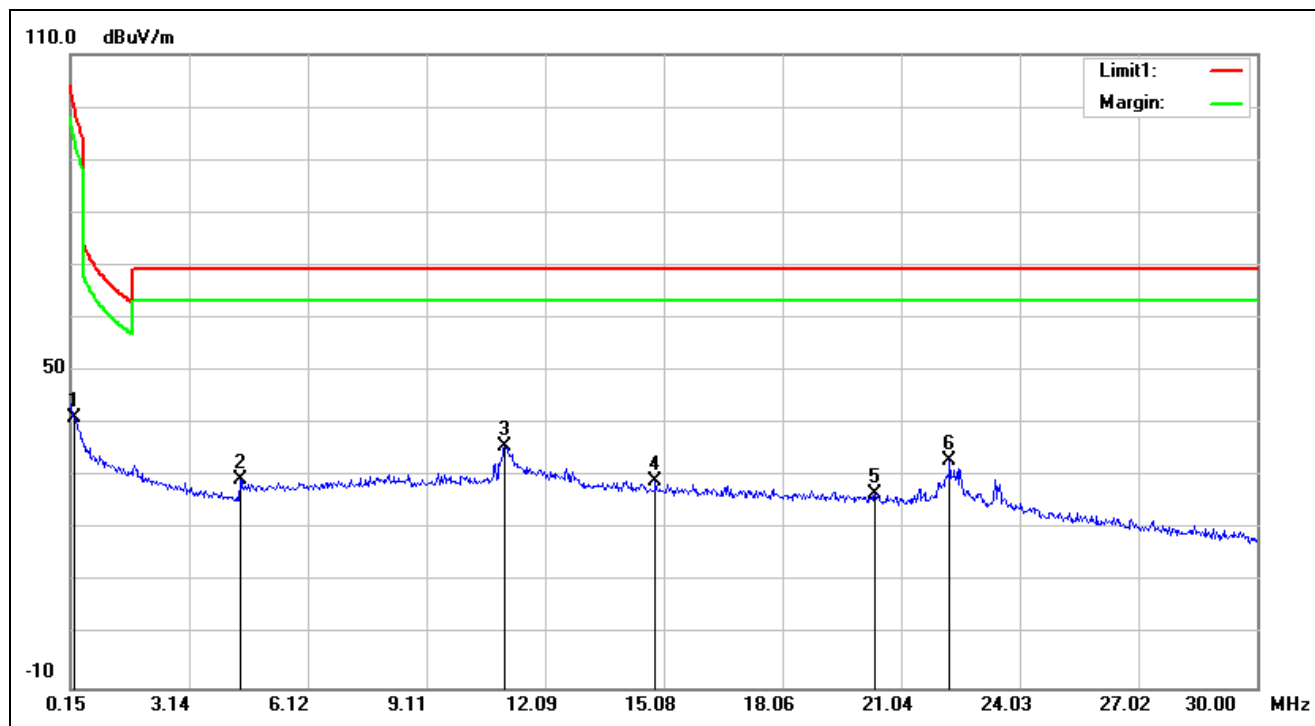
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



Service No.:	114069019	Test Distance:	3m
Test Standard:	FCC15.209_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2017/12/4 21:27:14
Applicant:	MAGNET SYSTEMS IKE	Test Rating:	DC 5V
Product:	Bluetooth Adapter	Temp.(°C)/Hum.(%)	23(°C)/55%
Model No.:	BAL_BAF	Test Engineer:	Amy Hsu
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	0.0152	19.98	34.64	54.62	123.95	-69.33	QP	100	170	
2	0.0226	20.06	31.22	51.28	120.51	-69.23	QP	100	178	
3	0.0302	20.12	27.84	47.96	117.99	-70.03	QP	100	159	
4	0.0380	19.85	24.60	44.45	116.00	-71.55	QP	100	170	
5	0.0607	19.37	17.65	37.02	111.93	-74.91	QP	100	159	
6	0.0789	19.26	15.02	34.28	109.65	-75.37	QP	100	170	



Service No.:	114069019	Test Distance:	3m
Test Standard:	FCC15.209_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2017/12/4 21:30:37
Applicant:	MAGNET SYSTEMS IKE	Test Rating:	DC 5V
Product:	Bluetooth Adapter	Temp.(°C)/Hum.(%)	23(°C)/55%
Model No.:	BAL_BAF	Test Engineer:	Amy Hsu
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	0.2395	19.00	22.10	41.10	100.01	-58.91	QP	100	8	
2	4.4185	19.40	10.13	29.53	69.50	-39.97	QP	100	348	
3	11.0751	20.41	15.46	35.87	69.50	-33.63	QP	100	244	
4	14.8660	21.08	8.08	29.16	69.50	-40.34	QP	100	225	
5	20.3883	22.01	4.87	26.88	69.50	-42.62	QP	100	155	
6	22.2688	22.14	10.84	32.98	69.50	-36.52	QP	100	88	

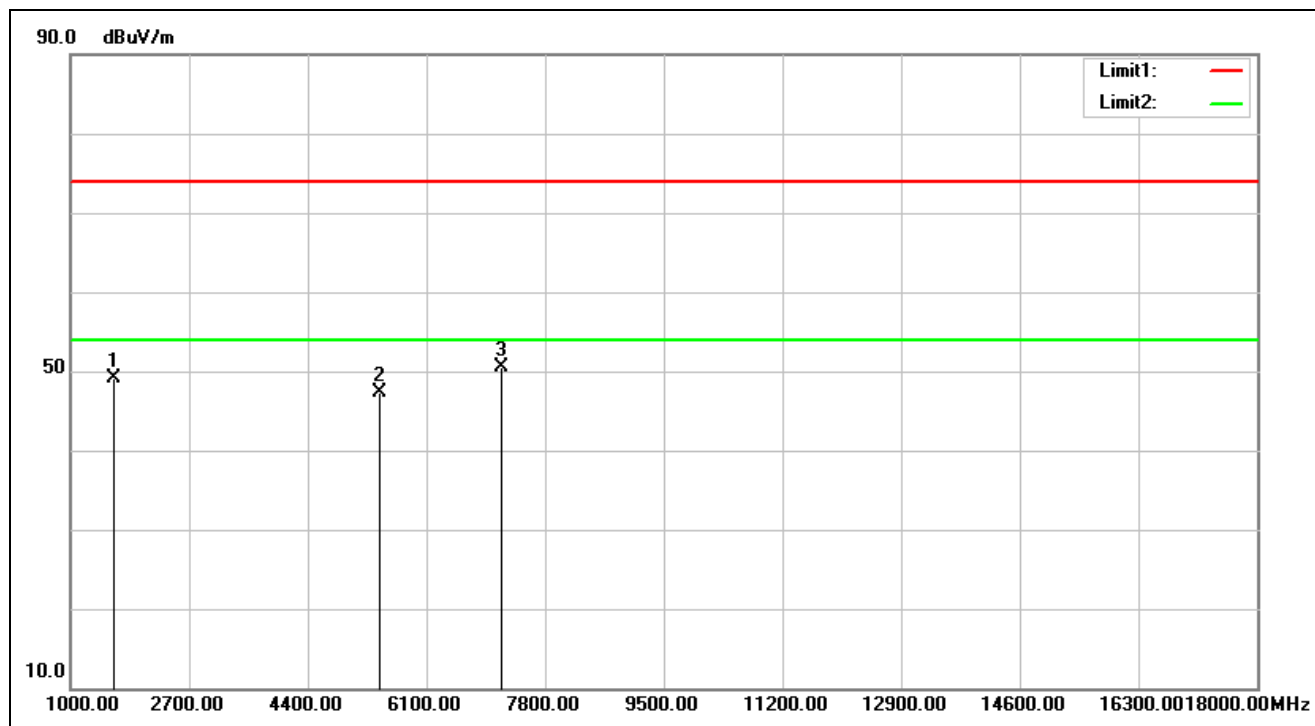
Spurious Emissions, RX Mode, 1-18G



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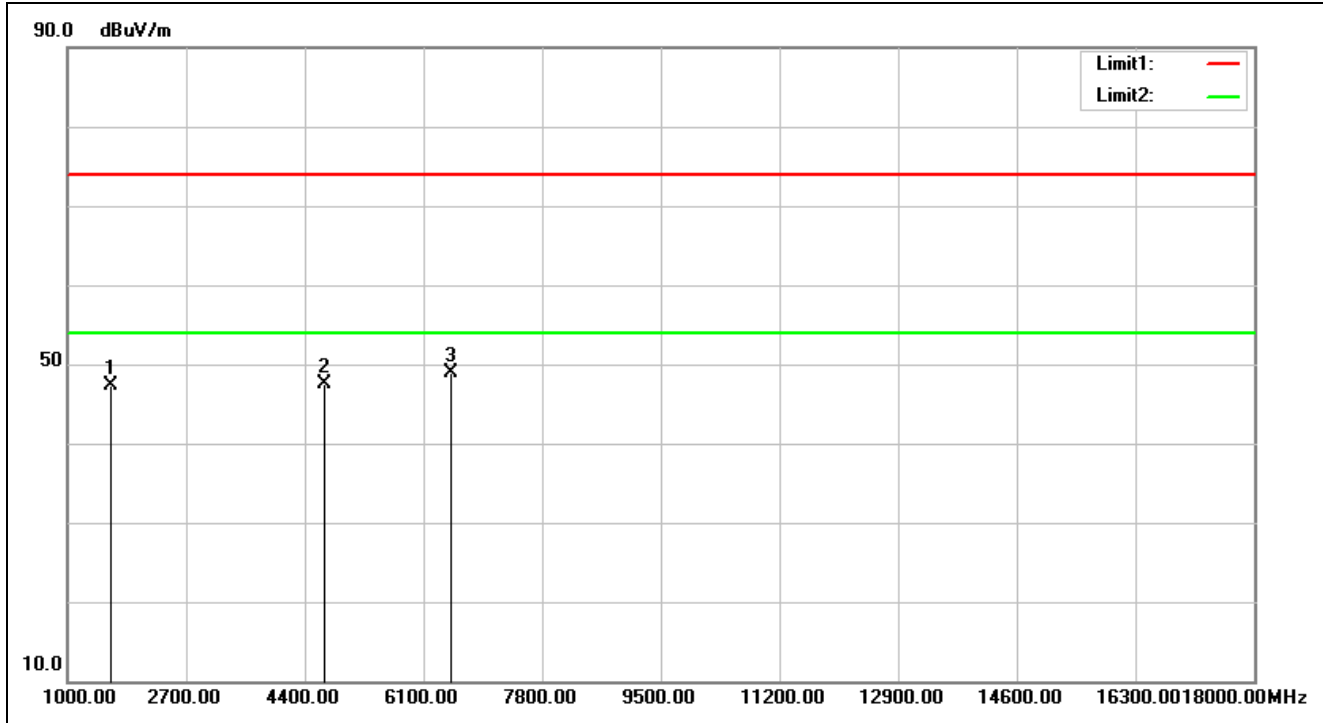
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



Service No.:	114069019	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/12/4 20:57:02
Applicant:	MAGNET SYSTEMS IKE	Test Rating:	DC 5V
Product:	Bluetooth Adapter	Temp.(°C)/Hum.(%)	23(°C)/55%
Model No.:	BAL_BAF	Test Engineer:	Amy Hsu
Test Mode:	1DH5-2441-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	1612.000	-10.72	59.89	49.17	74.00	-24.83	peak	100	72	
2	5420.000	-1.26	48.47	47.21	74.00	-26.79	peak	100	326	
3	7171.000	4.16	46.35	50.51	74.00	-23.49	peak	100	177	



Service No.:	114069019	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/12/4 20:58:05
Applicant:	MAGNET SYSTEMS IKE	Test Rating:	DC 5V
Product:	Bluetooth Adapter	Temp.(°C)/Hum.(%)	23(°C)/55%
Model No.:	BAL_BAF	Test Engineer:	Amy Hsu
Test Mode:	1DH5-2441-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	1612.000	-10.72	58.03	47.31	74.00	-26.69	peak	100	266	
2	4672.000	-3.71	51.20	47.49	74.00	-26.51	peak	100	34	
3	6491.000	4.27	44.70	48.97	74.00	-25.03	peak	100	83	

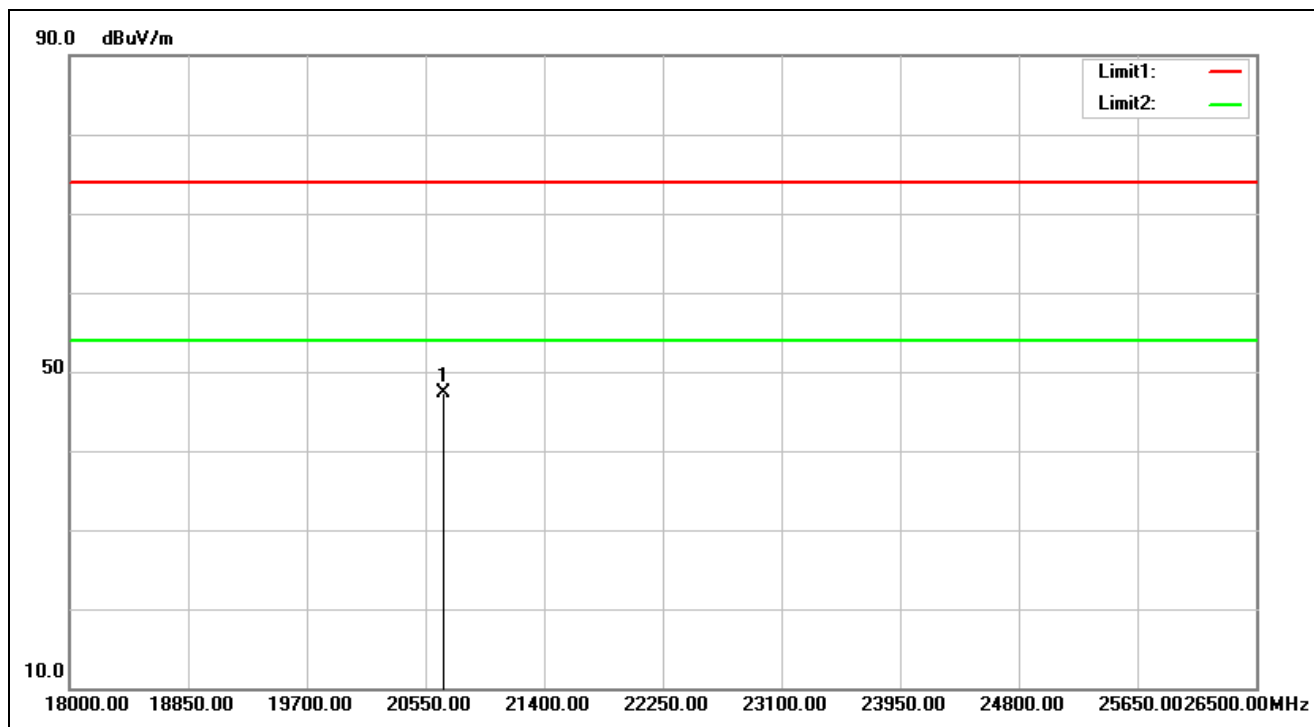
Spurious Emissions, RX Mode, 18-26G



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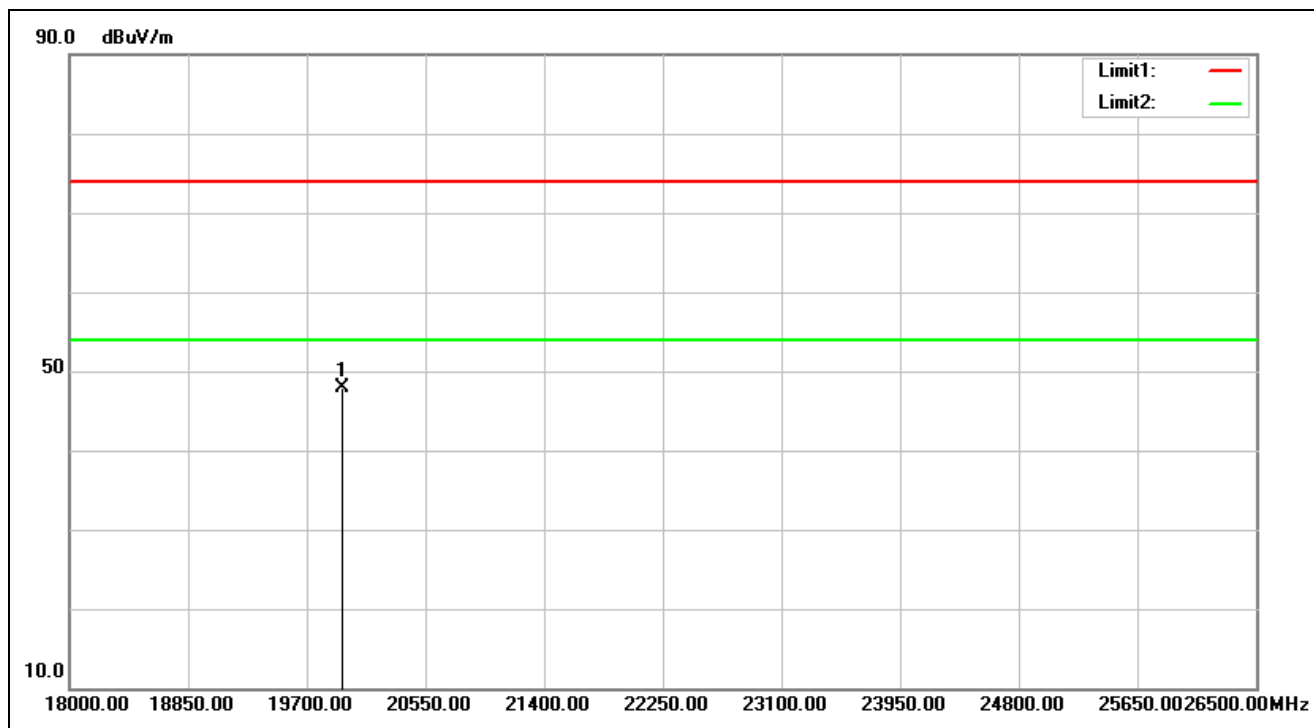
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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Service No.:	114069019	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/12/4 21:18:23
Applicant:	MAGNET SYSTEMS IKE	Test Rating:	DC 5V
Product:	Bluetooth Adapter	Temp.(°C)/Hum.(%):	23(°C)/55%
Model No.:	BAL_BAF	Test Engineer:	Amy Hsu
Test Mode:	1DH5-2441-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	20677.500	31.07	16.16	47.23	74.00	-26.77	peak	100	341	



Service No.:	114069019	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/12/4 21:18:34
Applicant:	MAGNET SYSTEMS IKE	Test Rating:	DC 5V
Product:	Bluetooth Adapter	Temp.(°C)/Hum.(%):	23(°C)/55%
Model No.:	BAL_BAF	Test Engineer:	Amy Hsu
Test Mode:	1DH5-2441-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	19955.000	30.52	17.41	47.93	74.00	-26.07	peak	100	218	

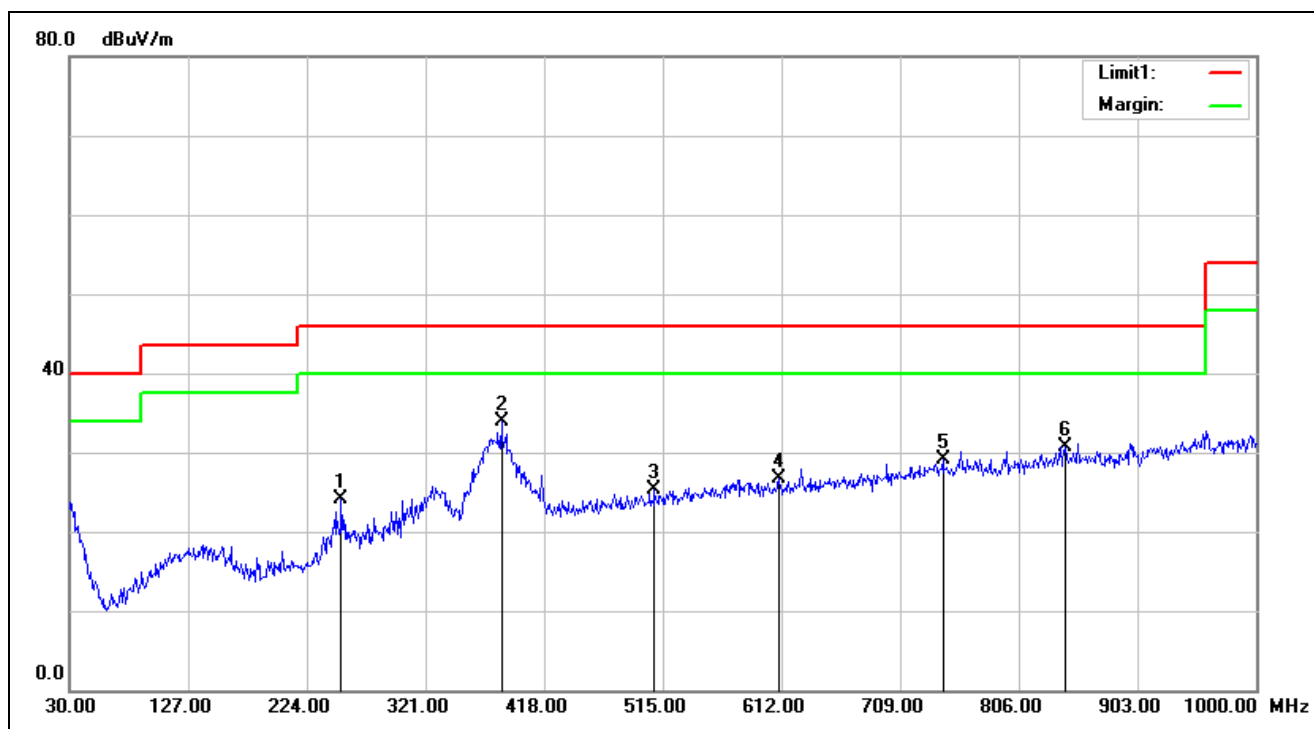
Spurious Emissions, RX Mode, 30M-1G



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Service No.:	114069019	Test Distance:	3m
Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/12/4 21:50:53
Applicant:	MAGNET SYSTEMS IKE	Test Rating:	DC 5V
Product:	Bluetooth Adapter	Temp.(°C)/Hum.(%)	23(°C)/55%
Model No.:	BAL_BAF	Test Engineer:	Amy Hsu
Test Mode:	1DH5-2441-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	252.1300	-5.60	29.65	24.05	46.00	-21.95	QP	100	116	
2	383.0800	-2.75	36.69	33.94	46.00	-12.06	QP	100	226	
3	508.2100	-1.06	26.40	25.34	46.00	-20.66	QP	100	58	
4	610.0599	0.17	26.48	26.65	46.00	-19.35	QP	100	124	
5	743.9200	2.24	26.80	29.04	46.00	-16.96	QP	100	316	
6	843.8300	3.60	27.14	30.74	46.00	-15.26	QP	100	171	



Service No.:	114069019	Test Distance:	3m
Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/12/4 21:51:57
Applicant:	MAGNET SYSTEMS IKE	Test Rating:	DC 5V
Product:	Bluetooth Adapter	Temp.(°C)/Hum.(%)	23(°C)/55%
Model No.:	BAL_BAF	Test Engineer:	Amy Hsu
Test Mode:	1DH5-2441-RX		
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	-0.25	23.99	23.74	40.00	-16.26	QP	100	266	
2	384.0500	-2.72	35.21	32.49	46.00	-13.51	QP	100	188	
3	494.6300	-1.26	26.49	25.23	46.00	-20.77	QP	100	227	
4	594.5400	0.02	27.27	27.29	46.00	-18.71	QP	100	360	
5	753.6200	2.40	27.28	29.68	46.00	-16.32	QP	100	255	
6	838.9800	3.51	27.81	31.32	46.00	-14.68	QP	100	321	

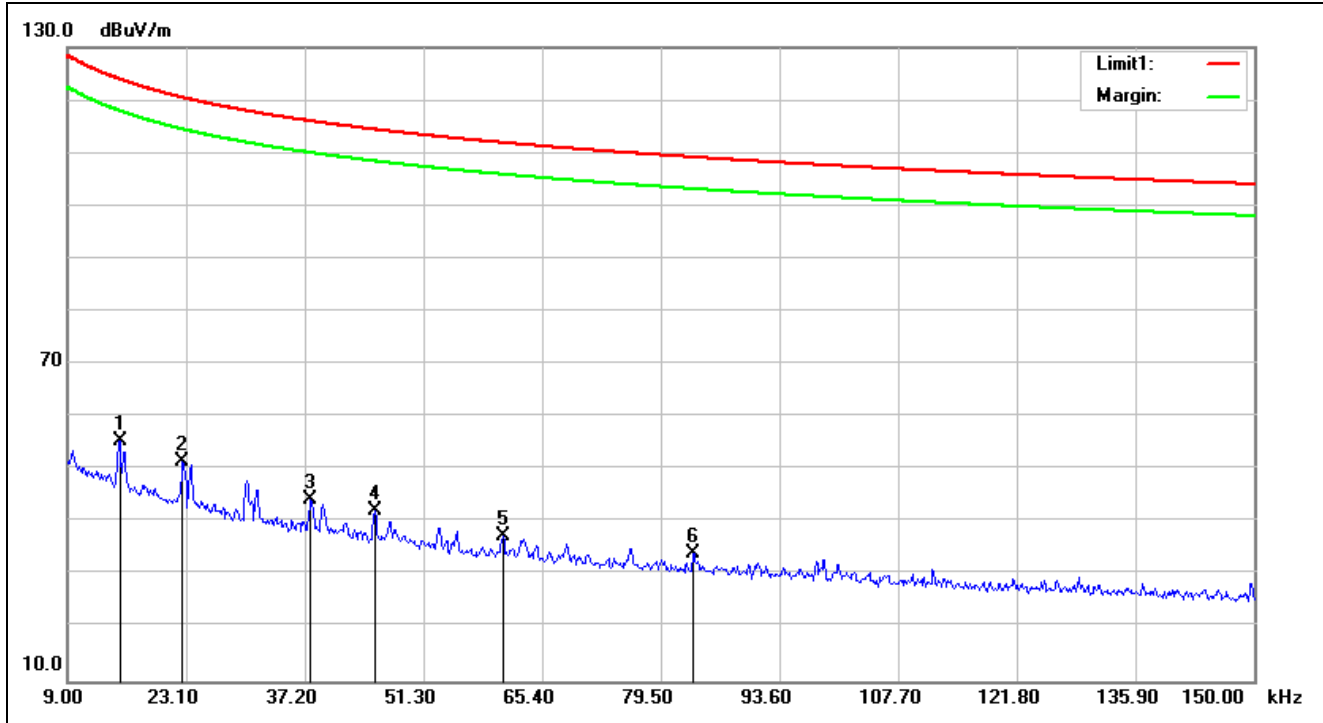
Spurious Emissions, RX Mode, 9K-30M



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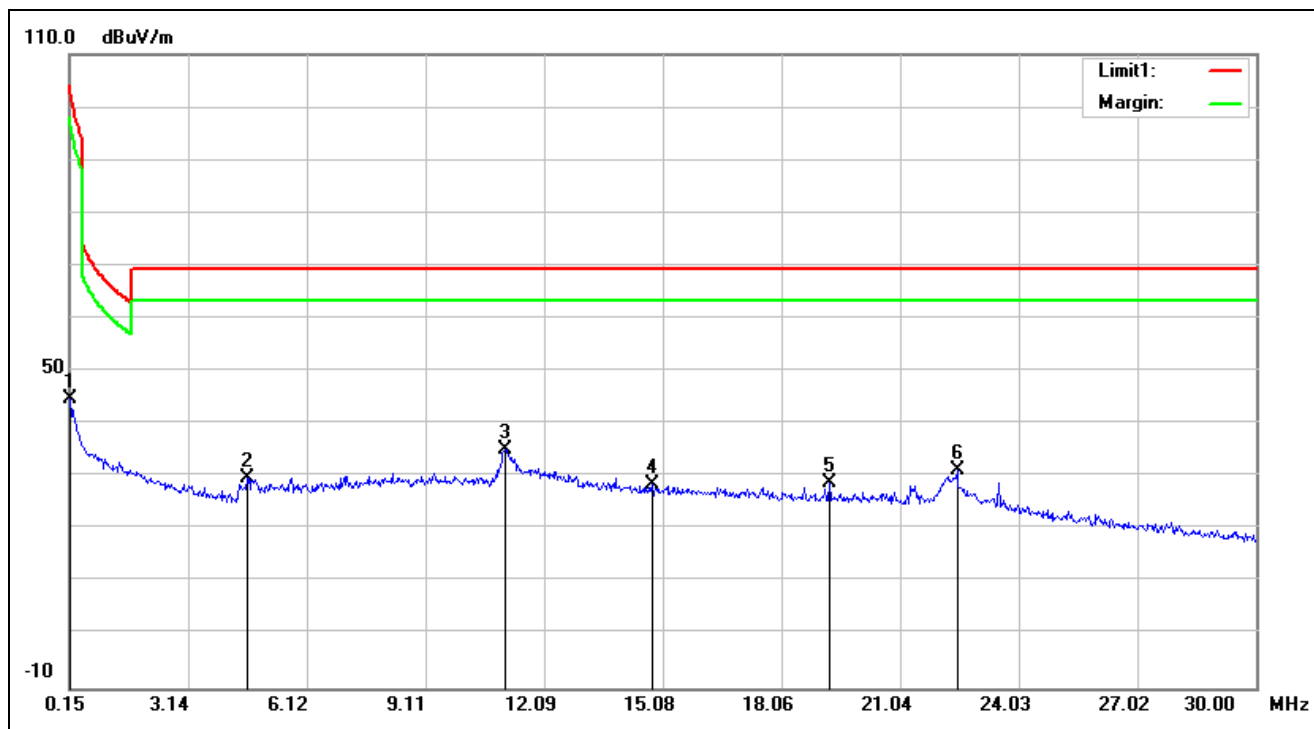
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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Service No.:	114069019	Test Distance:	3m
Test Standard:	FCC15.209_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2017/12/4 21:28:18
Applicant:	MAGNET SYSTEMS IKE	Test Rating:	DC 5V
Product:	Bluetooth Adapter	Temp.(°C)/Hum.(%)	23(°C)/55%
Model No.:	BAL_BAF	Test Engineer:	Amy Hsu
Test Mode:	1DH5-2441-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	0.0152	19.98	35.47	55.45	123.95	-68.50	QP	100	166	
2	0.0227	20.06	31.39	51.45	120.47	-69.02	QP	100	166	
3	0.0379	19.85	24.43	44.28	116.02	-71.74	QP	100	168	
4	0.0455	19.59	22.59	42.18	114.43	-72.25	QP	100	166	
5	0.0607	19.37	18.22	37.59	111.93	-74.34	QP	100	195	
6	0.0833	19.23	14.86	34.09	109.18	-75.09	QP	100	163	



Service No.:	114069019	Test Distance:	3m
Test Standard:	FCC15.209_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2017/12/4 21:31:40
Applicant:	MAGNET SYSTEMS IKE	Test Rating:	DC 5V
Product:	Bluetooth Adapter	Temp.(°C)/Hum.(%)	23(°C)/55%
Model No.:	BAL_BAF	Test Engineer:	Amy Hsu
Test Mode:	1DH5-2441-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	0.1799	19.06	25.55	44.61	102.50	-57.89	QP	100	17	
2	4.6275	19.53	10.28	29.81	69.50	-39.69	QP	100	263	
3	11.1050	20.42	14.84	35.26	69.50	-34.24	QP	100	336	
4	14.8064	21.07	7.40	28.47	69.50	-41.03	QP	100	253	
5	19.2540	21.85	6.94	28.79	69.50	-40.71	QP	100	126	
6	22.4778	22.15	9.15	31.30	69.50	-38.20	QP	100	269	