



RADIO TEST REPORT

Report No.: STS2211311W11

Issued for

RTX HONG KONG LTD

8/F Corporation Square 8 Lam Lok Street, Kowloon Bay,
Kowloon, Hong Kong

Product Name:	Wireless Mono Headset Wireless Stereo Headset Wireless Stereo ANC Headset
Brand:	RTX
Model Number:	RTX7254
Series Model(s):	RTX7251,RTX7252
FCC ID:	T7HHT7254
Test Standard:	Title 47 of the CFR, Part 15 Subpart D

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**TEST RESULT CERTIFICATION**

Applicant's Name : RTX HONG KONG LTD
Address : 8/F Corporation Square 8 Lam Lok Street, Kowloon Bay, Kowloon, Hong Kong
Manufacturer's Name : RTX HONG KONG LTD
Address : 8/F Corporation Square 8 Lam Lok Street, Kowloon Bay, Kowloon, Hong Kong

Product Description

Product Name : Wireless Mono Headset
Wireless Stereo Headset
Wireless Stereo ANC Headset
Brand : RTX
Model Number : RTX7254
Series Model(s) : RTX7251, RTX7252

Test Standards : Title 47 of the CFR, Part 15. Subpart D

Test procedure : ANSI C63.17-2013

This device described above has been tested by STS and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test :

Date of receipt of test item : 09 Nov. 2022

Date of performance of tests : 09 Nov. 2022 ~ 13 Feb. 2023

Date of Issue : 13 Feb. 2023

Test Result : **Pass**

Testing Engineer :

(Chris Chen)

Technical Manager :

(Sean she)

Authorized Signatory :

(Bovey Yang)





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**Revision History**

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	13 Feb. 2023	STS2211311W011	ALL	Initial Issue





SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

The following tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15 Subpart D.

Requirement	FCC Part	Test Procedure	Result
Radiated Out of Band Emissions	15.319 (g), 15.309 (b) & FCC Part 15 Subpart B, 15.109 and 15.209	--	Compliant

1 INTRODUCTION

1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add. : A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	RF output power, conducted	$\pm 1.197\text{dB}$
2	Unwanted Emissions, conducted	$\pm 2.896\text{dB}$
3	All emissions, radiated 9K-30MHz	$\pm 3.84\text{dB}$
4	All emissions, radiated 30M-1GHz	$\pm 3.94\text{dB}$
5	All emissions, radiated 1G-6GHz	$\pm 4.59\text{dB}$
6	All emissions, radiated >6G	$\pm 5.22\text{dB}$
7	Conducted Emission (9KHz-150KHz)	$\pm 2.14\text{dB}$
8	Conducted Emission (150KHz-30MHz)	$\pm 2.54\text{dB}$



2 PRODUCT INFORMATION

Product Name	Wireless Mono Headset Wireless Stereo Headset Wireless Stereo ANC Headset
Brand	RTX
Model Number	RTX7254
Series Model(s)	RTX7251, RTX7252
Product Differences	RTX7251 is mono headset, RTX7252 is stereo headset, RTX7254 is stereo headset with ANC function. They share the same main PCB layout.
Hardware version number	V8
Software version number	V0099B0008
EUT Frequency Ranges	1921.536-1928.448MHz
Type of Modulations	GFSK
Packet type	PP32Z, PP64Z
Number of Channels	5 CH. Please see Note 2.
Antenna Type	PCB Antenna
Antenna Gain	Ant 1: 1dBi Ant 2: 1dBi
Power Rating	Input: DC 3.8V battery, Type-C 5V
Battery	Model: BP1729/A Brand: Tianmao DC 3.8V 600mAh 2.28Wh
Adapter	1. Multi Plug Model: S008ACM0500100 Input: AC 100-240V 50/60Hz 0.3A Output: DC 5V 1.0A 5.0W 2. US Plug Model: S006AKU0500100 Input: AC 100-240V 50/60Hz 200A Output: DC 5.0V 1000mA
Extreme Temp. Tolerance:	-10°C to 55°C

Note: 1. Antenna 1 and Antenna 2 cannot transmit simultaneously.

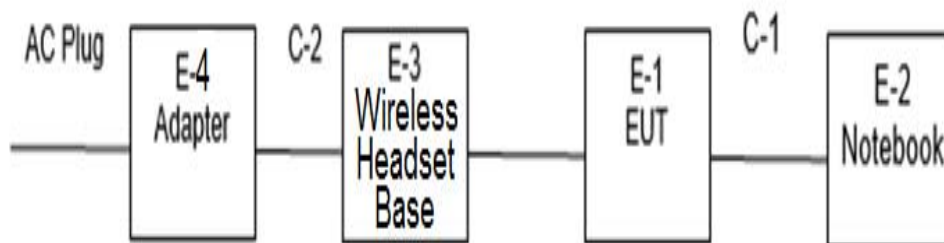
2. Channel list:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
04	1921.536	03	1923.264	02	1924.992
01	1926.720	00	1928.448	--	--



3 TEST CONFIGURATION OF EQUIPMENT UNDER TEST

Conducted Emission Test



3.1 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Necessary accessories

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
/	Battery	Tianmao	BP1729/A	N/A	DC 3.8V 600mAh 2.28Wh

Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
E-2	Notebook	Lenovo	ThinkPad E470	N/A	N/A
/	Wireless Headset Base	RTX	RTX7451	N/A	N/A
/	Adapter	N/A	S008ACM0500150	190cm	N/A

Note:

(1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.



4 MEASUREMENT INSTRUMENTS

RF Radiation Test Equipment					
Kind of Equip-ment	Manufacturer	Type No.	Serial No.	Last Cali-bration	Calibrated Until
Temperature & Humidity	SW-108	SuWei	N/A	2022.03.02	2023.03.01
Wireless Com-munications Test Set	R&S	CMW 500	117239	2022.03.01	2023.02.28
Pre-Ampli-fier(0.1M-3GHz)	EM	EM330	060665	2022.07.04	2023.07.03
Pre-Amplifier (1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2022.09.29	2023.09.28
Positioning Controller	MF	MF-7802	MF-780208587	N/A	N/A
Signal Analyzer	R&S	FSV 40-N	101823	2022.09.29	2023.09.28
Switch Control Box	N/A	N/A	N/A	N/A	N/A
Filter Box	BALUN Technology	SU319E	BL-SZ1530051	N/A	N/A
Video Control-ler	SKET	FCS C-3	N/A	N/A	N/A
Bilog Antenna	TESEQ	CBL6111D	34678	2022.09.30	2024.09.29
Horn Antenna	SCHWARZ-BECK	BBHA 9120D	02014	2021.10.11	2023.10.10
Antenna Mast	MF	MFA-440H	N/A	N/A	N/A
Turn Table	MF	N/A	N/A	N/A	N/A
AC Power Source	APC	KDF-11010G	F214050035	N/A	N/A
DC Power Supply	Zhaoxin	RXN 605D	20R605D11010081	N/A	N/A
Test SW	EMC Test Software	15.2.0.339			

Equipment with a calibration date of “NCR” shown in this list was not used to make direct calibrated measurements.



5 TEST ITEMS

5.1 RADIATED SPURIOUS EMISSION

RADIATED EMISSION LIMITS

In any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part15.205(a) limit in the table and according to ANSI C63.10-2013 below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (Frequency Range 9kHz-1000MHz)

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	(dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

For Radiated Emission

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/AV
Start Frequency	1000 MHz(Peak/AV)
Stop Frequency	10th carrier hamonic(Peak/AV)
RB / VB (emission in restricted band)	1 MHz / 3 MHz

Receiver Parameter	Setting
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

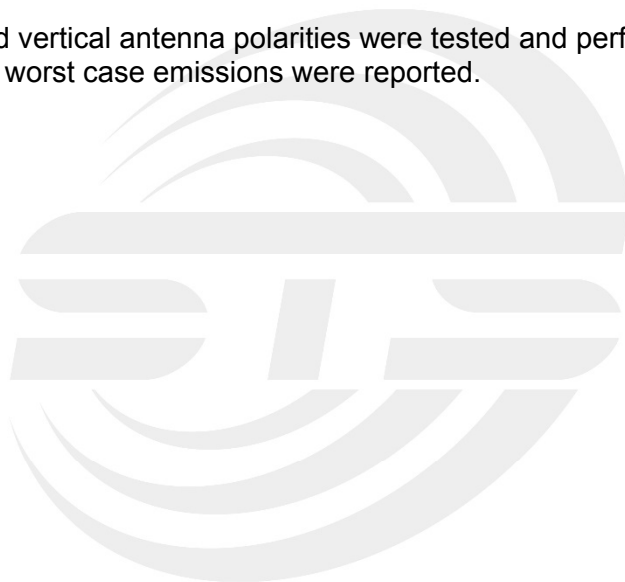


TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- b. The EUT was placed on the top of a rotating table 0.8 meters(above 1GHz is 1.5 m) above the ground at a 3 meter anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment shall be 0.8 m(above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarizations of the Antenna 1re set to make the measurement
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

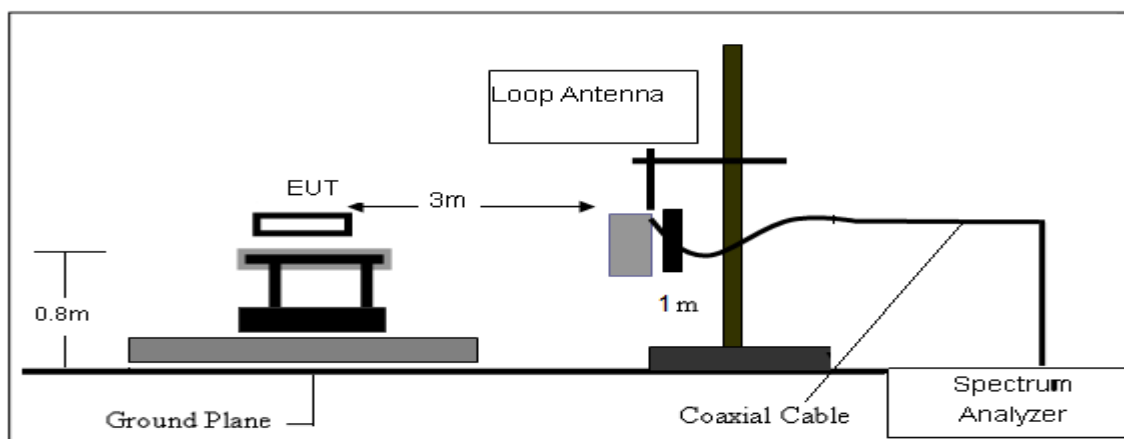
Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

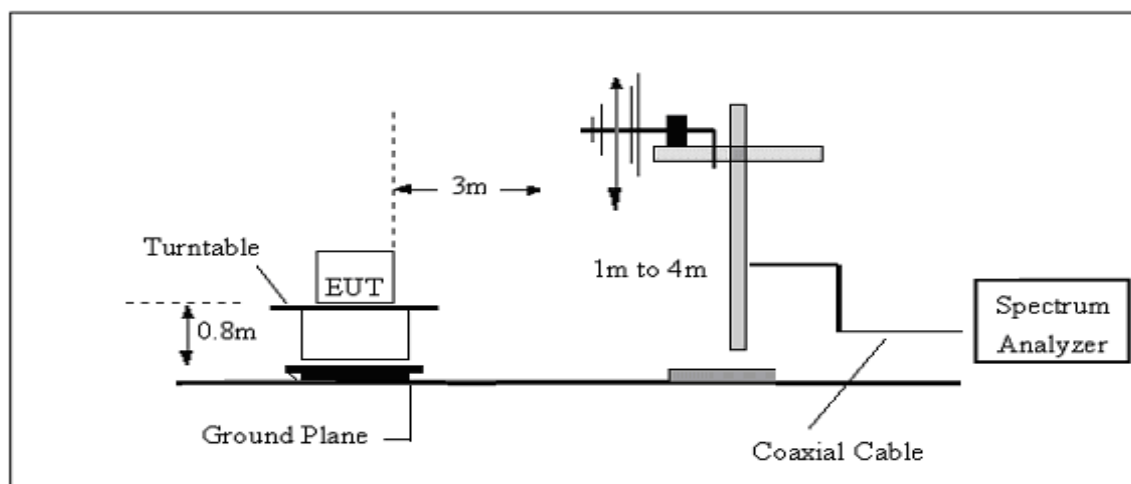


TEST SETUP

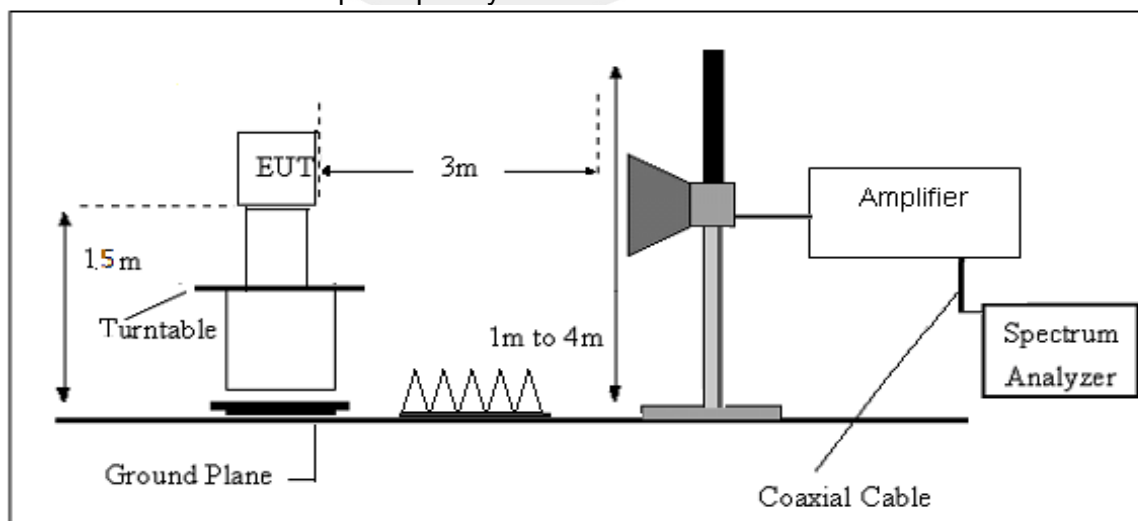
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

Margin=PL-PK L or AL- AV L; Margin only shown the worst case.

Where

PR = Peak Reading

AR = Average Reading

PL = Peak Level

AL = Average Level

AF = Antenna Factor

PK L = Peak Limit

AV L = AV Limit

For example

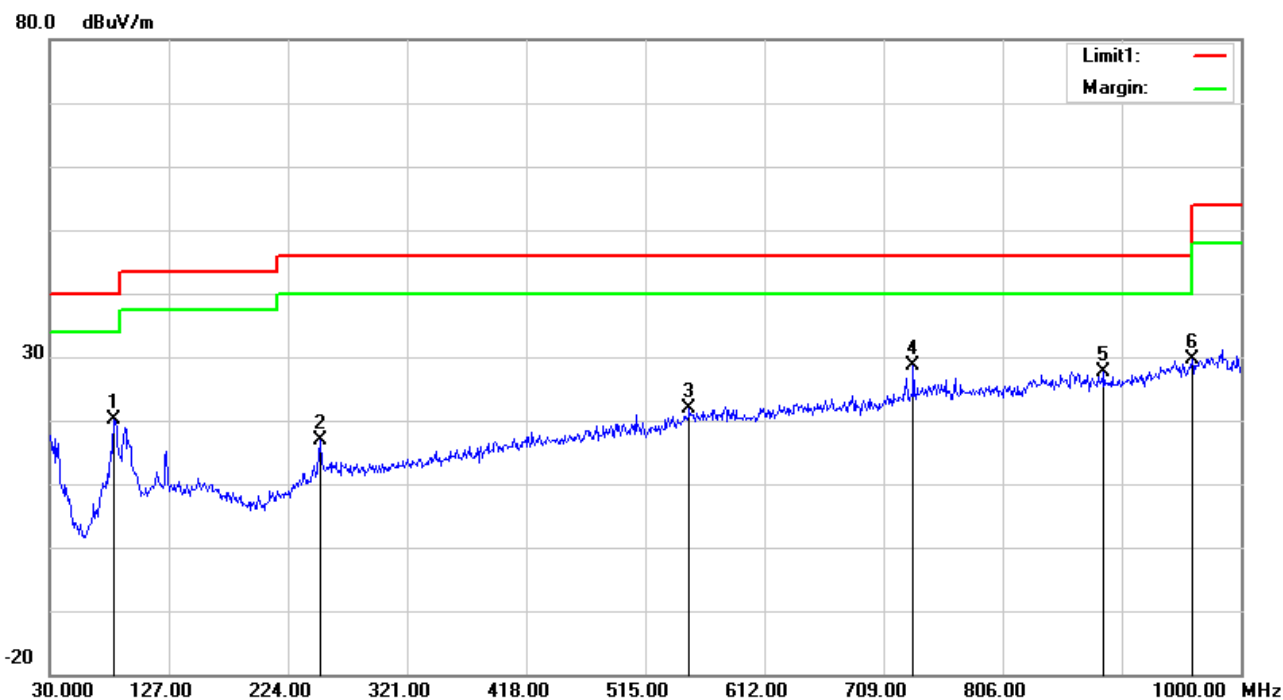
Frequency	PR	AR	AF	PL	AL	PK L	AV L	Margin
(MHz)	(dBμV/m)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV/m)	(dBμV/m)	(dBμV/m)	(dB)
2178	40.23	30.31	9.83	50.06	40.14	74.00	54.00	-13.86

Factor=AF+CL-AG



TEST RESULTS(30MHz – 1GHz)

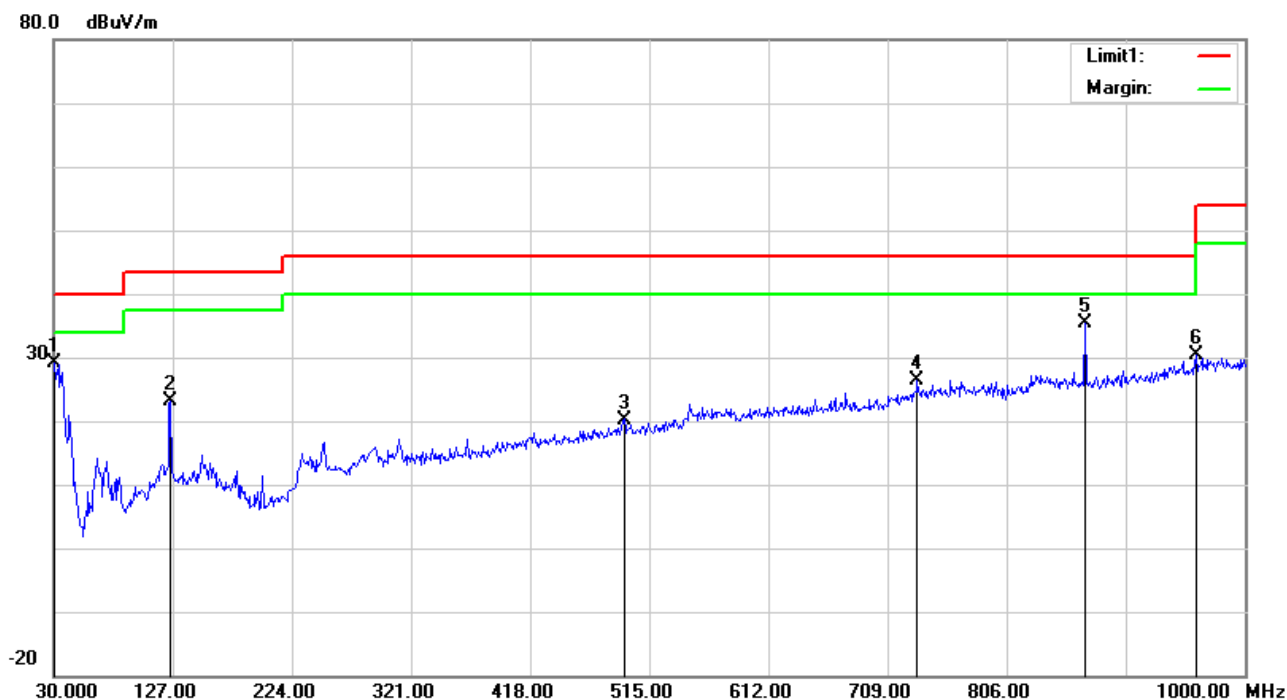
Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	AC 120V/60Hz	Phase:	Horizontal
Test Mode:	TX Mode of ANT 1(PP32Z)		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	83.3500	42.36	-22.52	19.84	40.00	-20.16	QP
2	412.1800	28.29	-10.46	17.83	46.00	-28.17	QP
3	605.2100	28.04	-5.67	22.37	46.00	-23.63	QP
4	733.2500	31.57	-2.35	29.22	46.00	-16.78	QP
5	870.0200	32.19	-0.53	31.66	46.00	-14.34	QP
6	984.4800	28.48	2.40	30.88	54.00	-23.12	QP



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	AC 120V/60Hz	Phase:	Vertical
Test Mode:	TX Mode of ANT 1(PP32Z)		

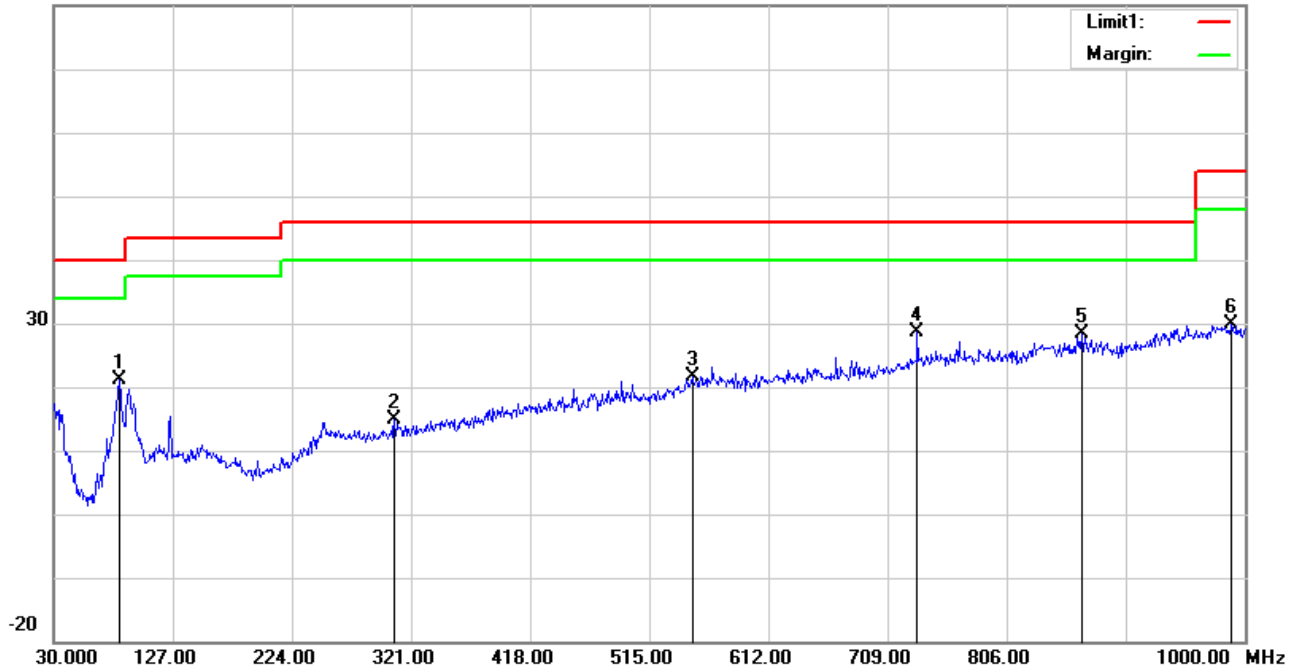


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.9700	42.47	-13.35	29.12	40.00	-10.88	QP
2	125.0600	41.32	-18.22	23.10	43.50	-20.40	QP
3	494.6300	28.37	-8.12	20.25	46.00	-25.75	QP
4	733.2500	28.76	-2.35	26.41	46.00	-19.59	QP
5	870.0200	35.99	-0.53	35.46	46.00	-10.54	QP
6	960.2300	28.56	1.76	30.32	54.00	-23.68	QP



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	AC 120V/60Hz	Phase:	Horizontal
Test Mode:	TX Mode of ANT 2(PP32Z)		

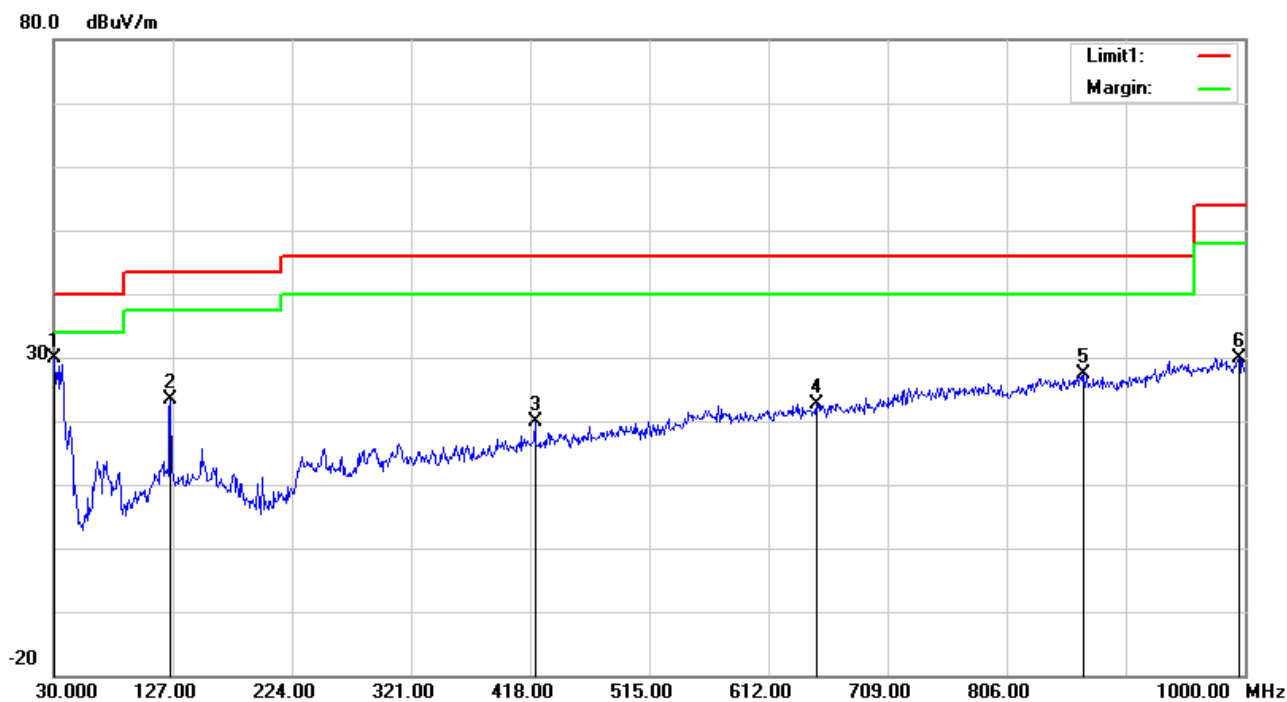
80.0 dBuV/m



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	83.3500	43.58	-22.52	21.06	40.00	-18.94	QP
2	307.4200	29.32	-14.55	14.77	46.00	-31.23	QP
3	549.9200	27.38	-5.78	21.60	46.00	-24.40	QP
4	733.2500	31.04	-2.35	28.69	46.00	-17.31	QP
5	867.1100	28.79	-0.50	28.29	46.00	-17.71	QP
6	989.3300	27.78	2.09	29.87	54.00	-24.13	QP



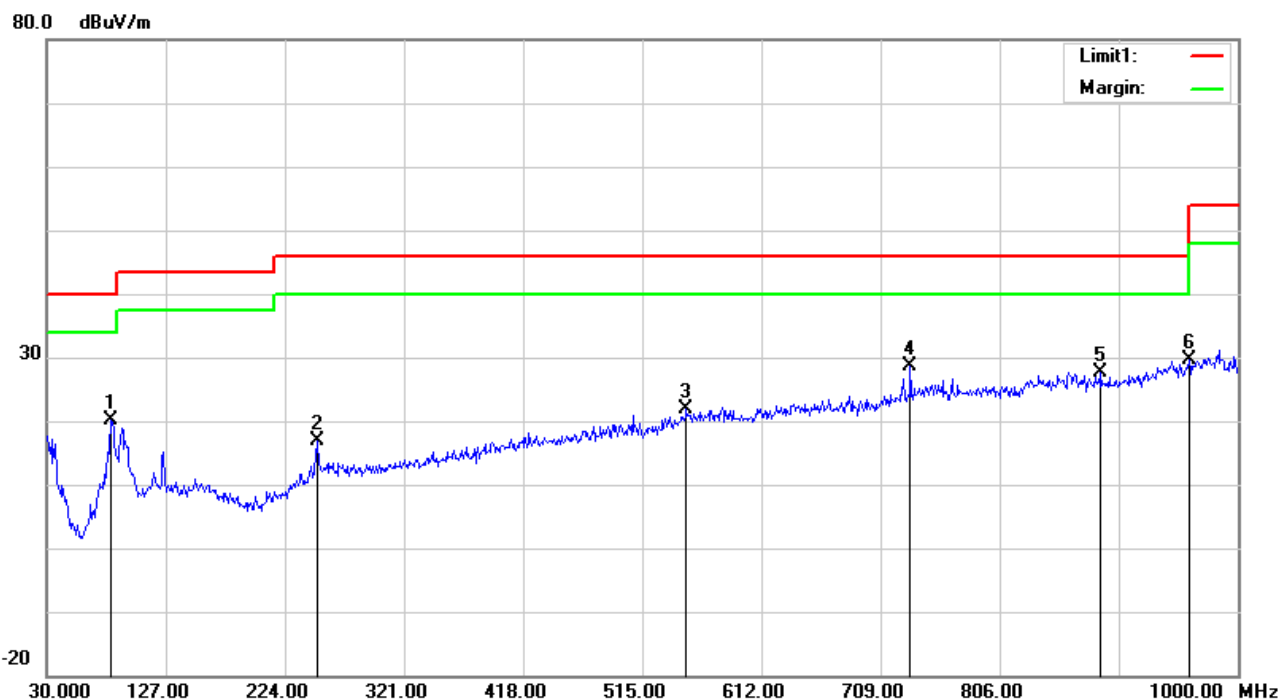
Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	AC 120V/60Hz	Phase:	Vertical
Test Mode:	TX Mode of ANT 2(PP32Z)		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.9700	43.20	-13.35	29.85	40.00	-10.15	QP
2	125.0600	41.55	-18.22	23.33	43.50	-20.17	QP
3	421.8800	29.91	-10.10	19.81	46.00	-26.19	QP
4	650.8000	27.64	-4.90	22.74	46.00	-23.26	QP
5	869.0500	27.85	-0.52	27.33	46.00	-18.67	QP
6	995.1500	27.94	2.04	29.98	54.00	-24.02	QP



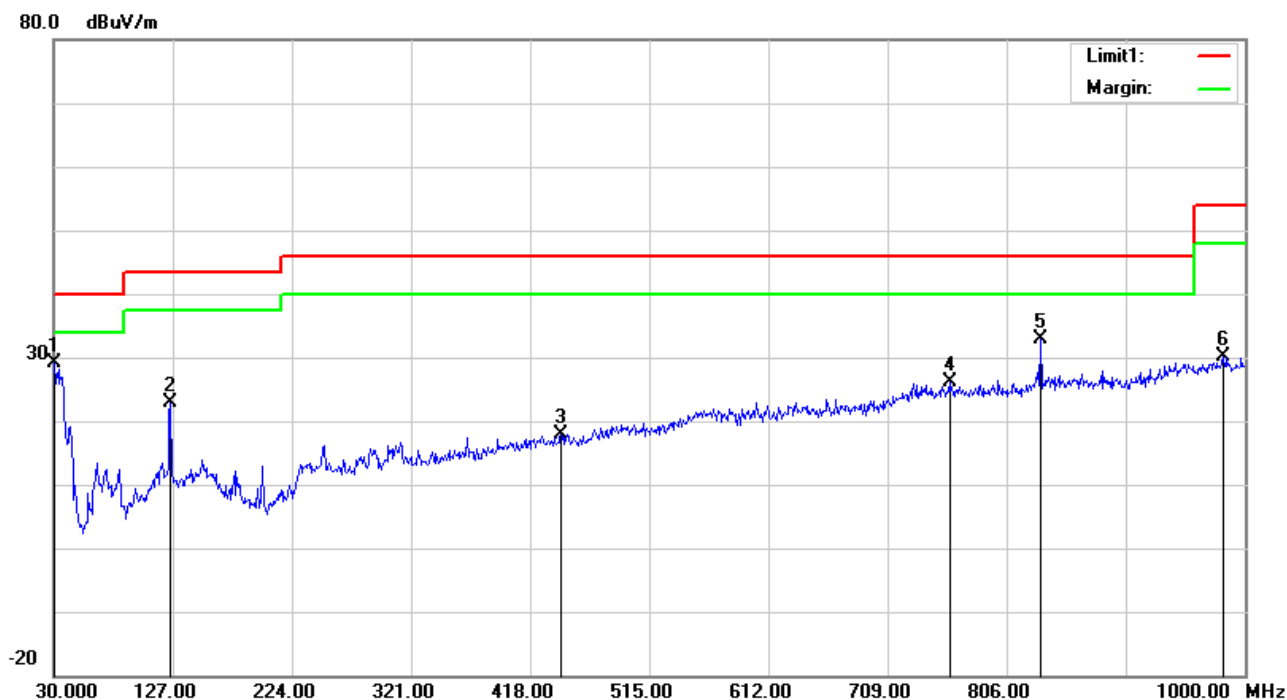
Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	AC 120V/60Hz	Phase:	Horizontal
Test Mode:	TX Mode of ANT 1(PP64Z)		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	82.3800	42.87	-22.68	20.19	40.00	-19.81	QP
2	250.1900	32.87	-16.10	16.77	46.00	-29.23	QP
3	550.8900	27.53	-5.74	21.79	46.00	-24.21	QP
4	733.2500	31.01	-2.35	28.66	46.00	-17.34	QP
5	888.4500	28.35	-0.68	27.67	46.00	-18.33	QP
6	960.2300	27.80	1.76	29.56	54.00	-24.44	QP



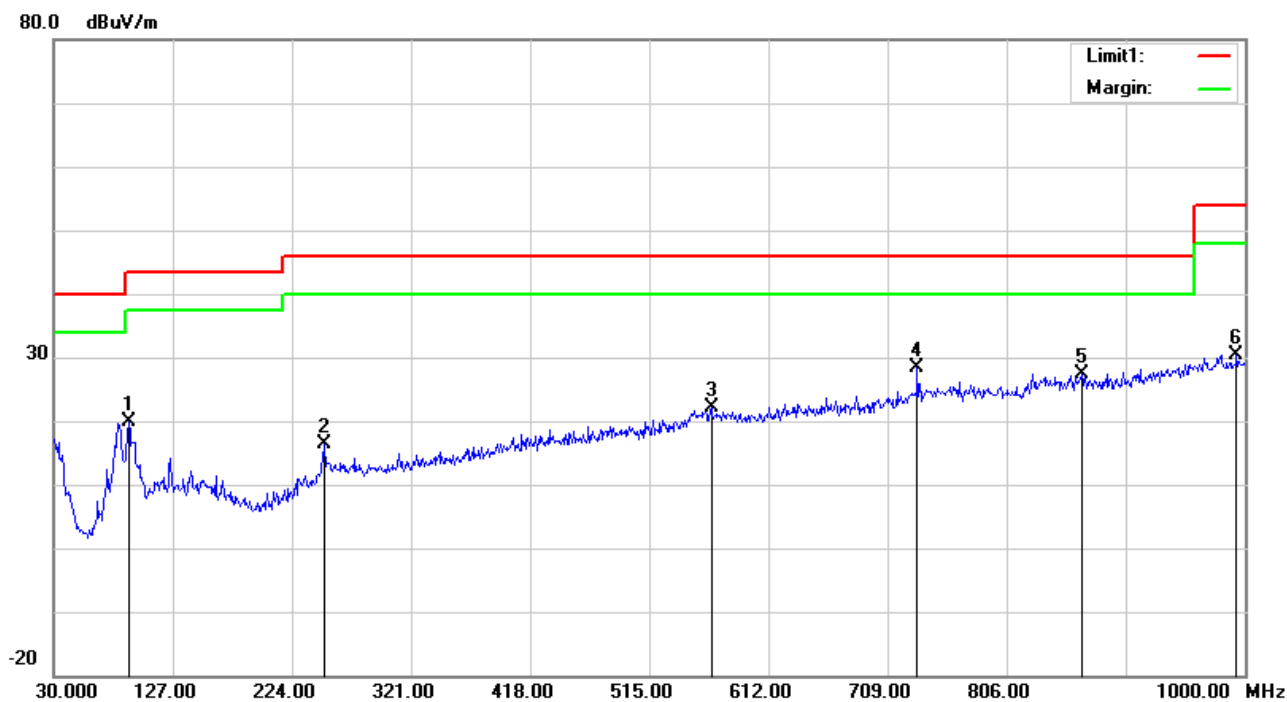
Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	AC 120V/60Hz	Phase:	Vertical
Test Mode:	TX Mode of ANT 1(PP64Z)		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.9700	42.56	-13.35	29.21	40.00	-10.79	QP
2	125.0600	40.98	-18.22	22.76	43.50	-20.74	QP
3	443.2200	27.91	-9.95	17.96	46.00	-28.04	QP
4	759.4400	28.23	-2.16	26.07	46.00	-19.93	QP
5	834.1300	33.41	-0.59	32.82	46.00	-13.18	QP
6	982.5400	27.70	2.52	30.22	54.00	-23.78	QP



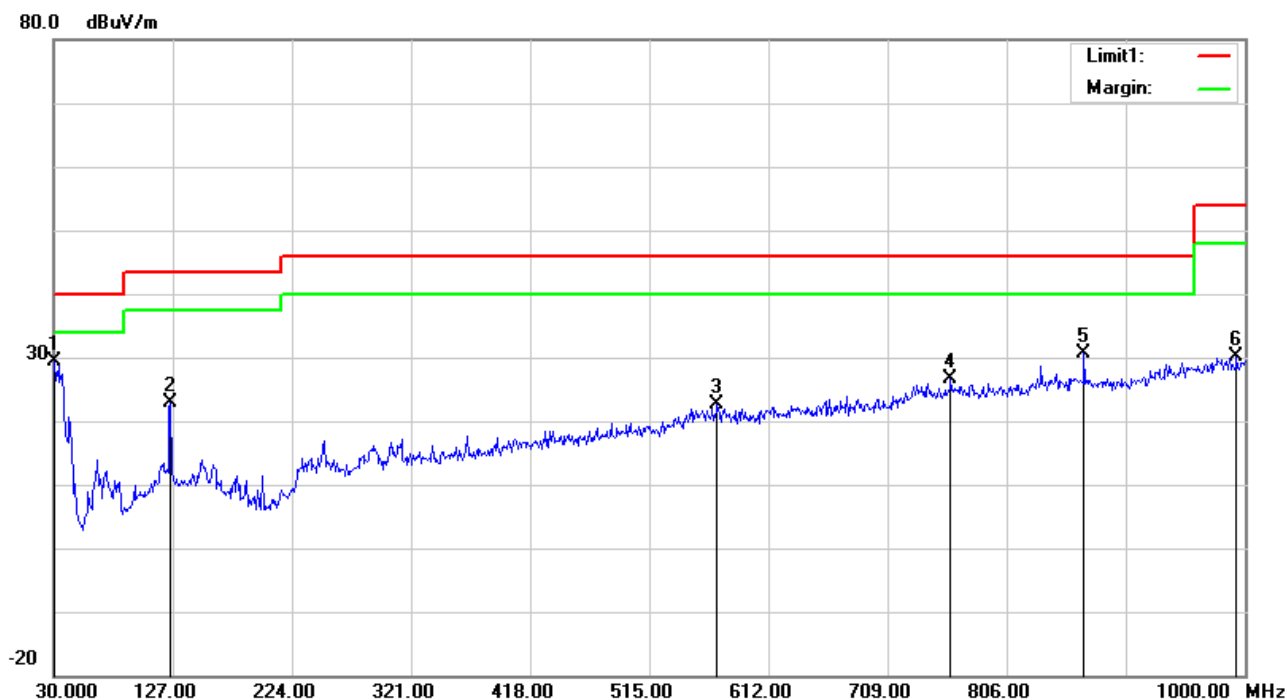
Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	AC 120V/60Hz	Phase:	Horizontal
Test Mode:	TX Mode of ANT 2(PP64Z)		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	91.1100	41.30	-21.31	19.99	43.50	-23.51	QP
2	250.1900	32.40	-16.10	16.30	46.00	-29.70	QP
3	565.4400	27.77	-5.55	22.22	46.00	-23.78	QP
4	733.2500	30.81	-2.35	28.46	46.00	-17.54	QP
5	867.1100	27.93	-0.50	27.43	46.00	-18.57	QP
6	993.2100	28.26	2.05	30.31	54.00	-23.69	QP



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	AC 120V/60Hz	Phase:	Vertical
Test Mode:	TX Mode of ANT 2(PP64Z)		



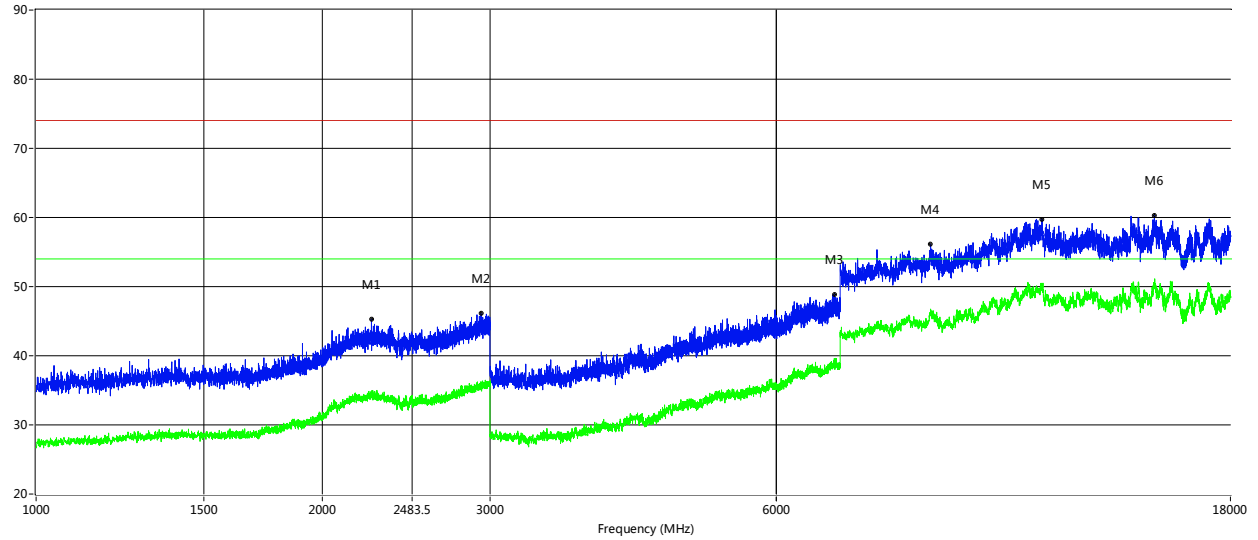
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.9700	42.67	-13.35	29.32	40.00	-10.68	QP
2	125.0600	41.04	-18.22	22.82	43.50	-20.68	QP
3	570.2900	28.33	-5.61	22.72	46.00	-23.28	QP
4	760.4100	28.74	-2.18	26.56	46.00	-19.44	QP
5	869.0500	31.22	-0.52	30.70	46.00	-15.30	QP
6	993.2100	28.05	2.05	30.10	54.00	-23.90	QP



TEST RESULTS(Above 1GHz)

PP32Z
GFSK-Low-ANT 1
Horizontal

RE_FCC Test Case_FCC 15C 1GHz-18GHz

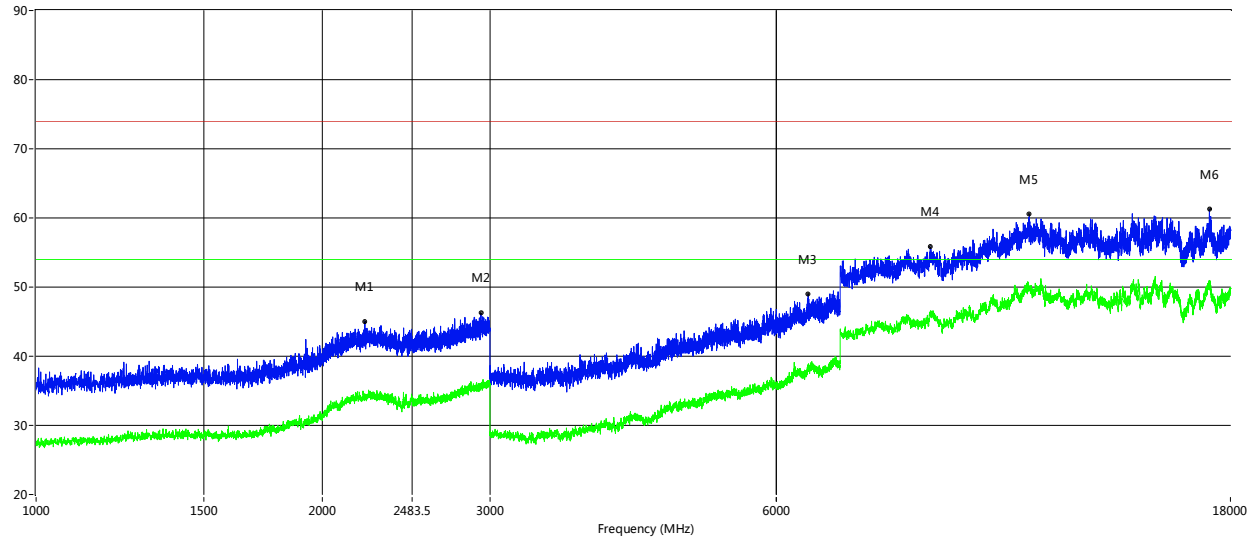


Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Over Limit (dB)	Table (o)	Height (cm)	ANT	Verdict
2251.500	45.28	--	34.23	4.64	74.0	--	54.0	-19.77	2.00	100	Horizontal	Pass
2936.000	46.12	--	35.50	5.82	74.0	--	54.0	-18.50	14.00	100	Horizontal	Pass
6901.000	48.85	--	38.86	0.46	74.0	--	54.0	-15.14	12.00	100	Horizontal	Pass
8713.250	56.09	--	46.74	5.12	74.0	--	54.0	-7.26	15.00	100	Horizontal	Pass
11399.999	59.76	--	50.46	9.74	74.0	--	54.0	-3.54	6.00	100	Horizontal	Pass
14977.750	60.29	--	50.30	10.28	74.0	--	54.0	-3.70	15.00	100	Horizontal	Pass



Vertical

RE_FCC Test Case_FCC 15C 1GHz-18GHz



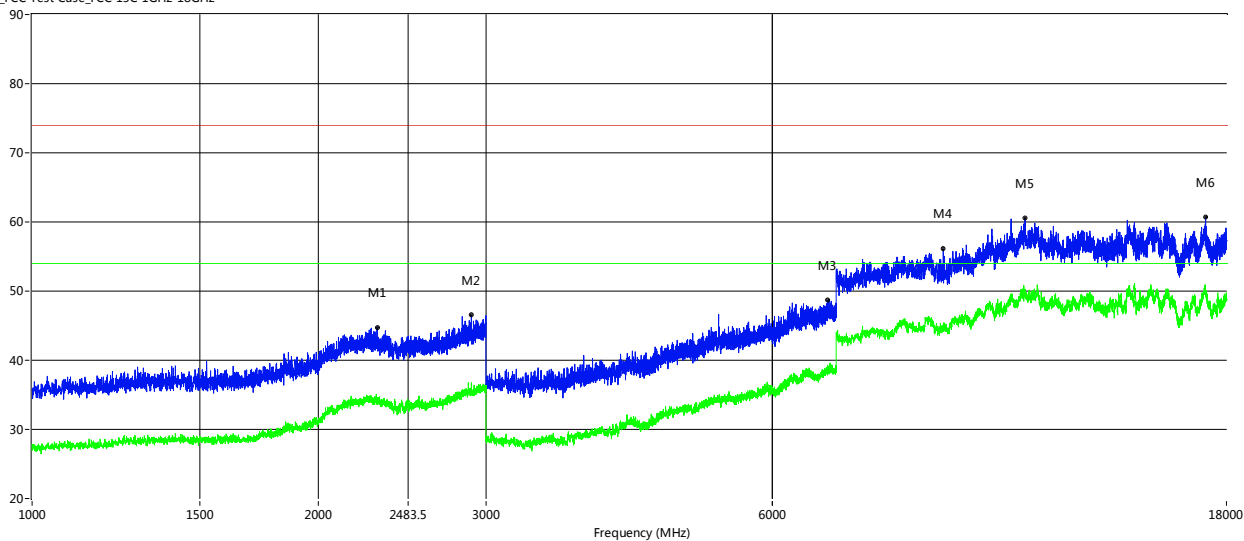
Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Over Limit (dB)	Table (o)	Height (cm)	ANT	Verdict
2216.000	45.07	--	34.36	4.27	74.0	--	54.0	-19.64	13.00	100	Vertical	Pass
2934.500	46.24	--	35.87	5.81	74.0	--	54.0	-18.13	10.00	100	Vertical	Pass
6480.000	48.96	--	38.82	-0.57	74.0	--	54.0	-15.18	4.00	100	Vertical	Pass
8707.750	55.81	--	46.43	5.14	74.0	--	54.0	-7.57	9.00	100	Vertical	Pass
11067.250	60.53	--	50.00	9.86	74.0	--	54.0	-4.00	2.00	100	Vertical	Pass
17111.750	61.25	--	50.69	10.42	74.0	--	54.0	-3.31	8.00	100	Vertical	Pass



GFSK-Mid-ANT 1

Horizontal

RE_FCC Test Case_FCC 15C 1GHz-18GHz

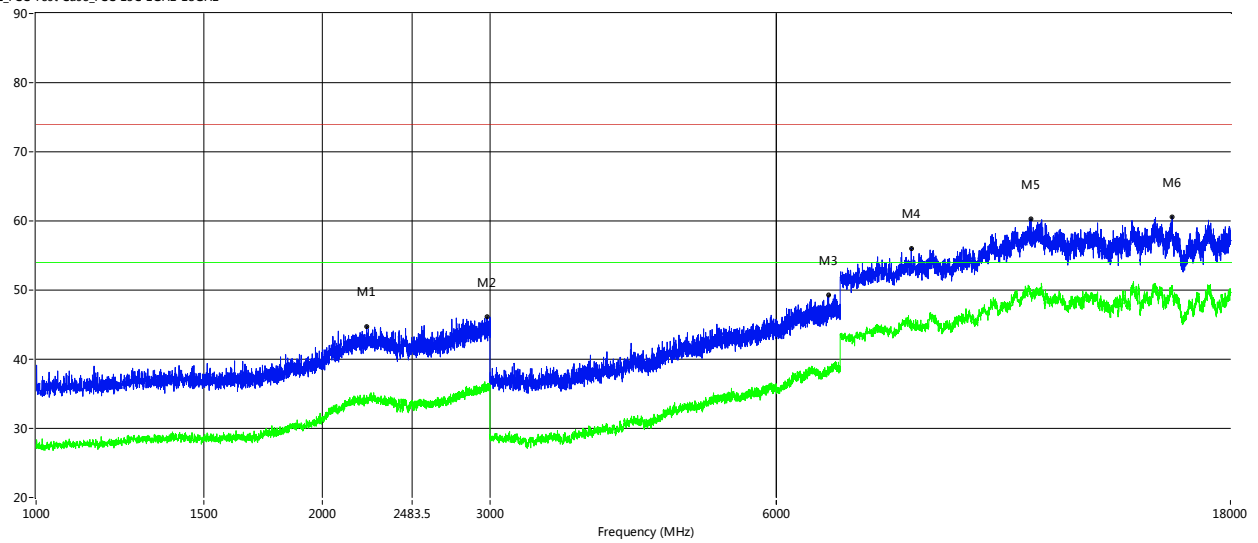


Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Over Limit (dB)	Table (o)	Height (cm)	ANT	Verdict
2304.500	44.75	--	33.96	4.56	74.0	--	54.0	-20.04	14.00	100	Horizontal	Pass
2896.000	46.56	--	36.76	5.61	74.0	--	54.0	-17.24	4.00	100	Horizontal	Pass
6864.000	48.65	--	38.53	0.28	74.0	--	54.0	-15.47	2.00	100	Horizontal	Pass
9073.500	56.10	--	45.16	4.67	74.0	--	54.0	-8.84	13.00	100	Horizontal	Pass
11059.000	60.59	--	49.54	9.90	74.0	--	54.0	-4.46	10.00	100	Horizontal	Pass
17120.000	60.71	--	49.49	10.37	74.0	--	54.0	-4.51	0.00	100	Horizontal	Pass



Vertical

RE_FCC Test Case_FCC 15C 1GHz-18GHz



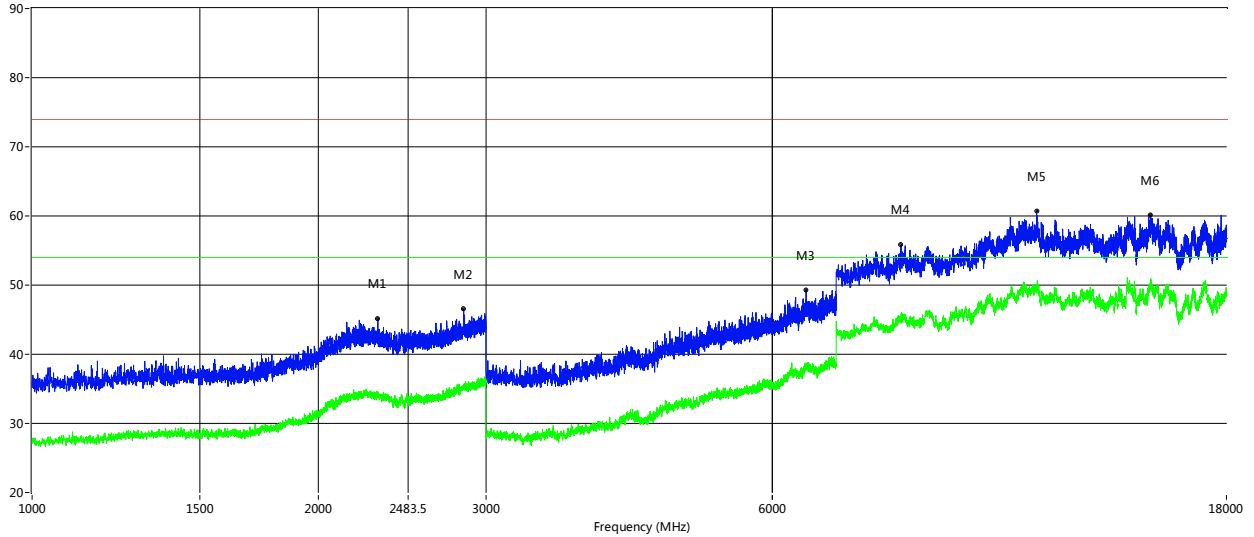
Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Over Limit (dB)	Table (o)	Height (cm)	ANT	Verdict
2226.000	44.78	--	34.76	4.38	74.0	--	54.0	-19.24	4.00	100	Vertical	Pass
2982.000	46.20	--	35.60	6.03	74.0	--	54.0	-18.40	14.00	100	Vertical	Pass
6802.000	49.25	--	38.41	-0.02	74.0	--	54.0	-15.59	10.00	100	Vertical	Pass
8314.500	56.06	--	45.56	4.24	74.0	--	54.0	-8.44	15.00	100	Vertical	Pass
11111.250	60.29	--	49.44	9.67	74.0	--	54.0	-4.56	5.00	100	Vertical	Pass
15632.250	60.64	--	50.05	10.32	74.0	--	54.0	-3.95	7.00	100	Vertical	Pass



GFSK-High-ANT 1

Horizontal

RE_FCC Test Case_FCC 15C 1GHz-18GHz

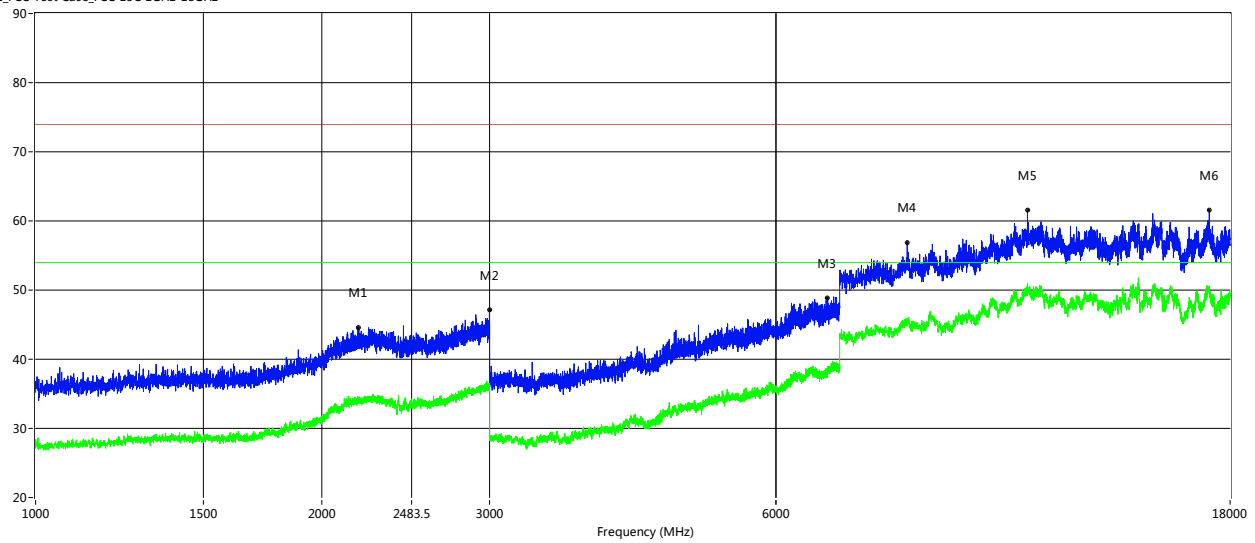


Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Over Limit (dB)	Table (o)	Height (cm)	ANT	Verdict
2309.000	45.13	--	33.95	4.54	74.0	--	54.0	-20.05	4.00	100	Horizontal	Pass
2842.500	46.56	--	35.21	5.56	74.0	--	54.0	-18.79	10.00	100	Horizontal	Pass
6510.000	49.28	--	38.32	-0.41	74.0	--	54.0	-15.68	6.00	100	Horizontal	Pass
8190.750	55.79	--	45.71	4.20	74.0	--	54.0	-8.29	15.00	100	Horizontal	Pass
11369.750	60.72	--	49.26	9.68	74.0	--	54.0	-4.74	0.00	100	Horizontal	Pass
14986.000	60.17	--	50.64	10.33	74.0	--	54.0	-3.36	11.00	100	Horizontal	Pass



Vertical

RE_FCC Test Case_FCC 15C 1GHz-18GHz



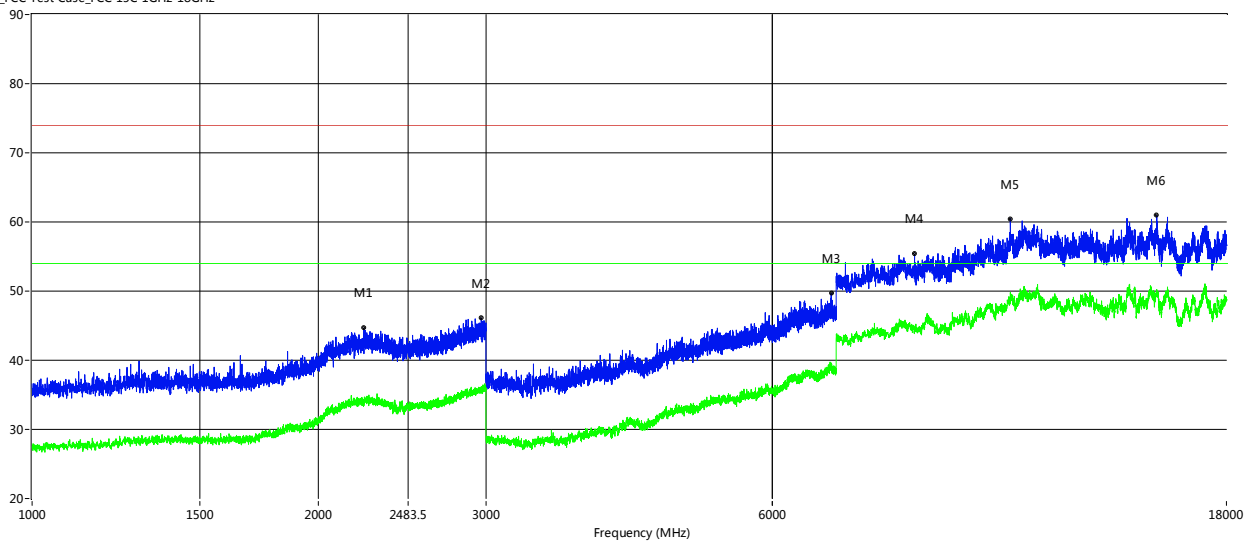
Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Over Limit (dB)	Table (o)	Height (cm)	ANT	Verdict
2186.500	44.59	--	34.22	4.24	74.0	--	54.0	-19.78	3.00	100	Vertical	Pass
2999.000	47.20	--	36.48	6.11	74.0	--	54.0	-17.52	10.00	100	Vertical	Pass
6799.000	48.92	--	38.66	-0.03	74.0	--	54.0	-15.34	2.00	100	Vertical	Pass
8243.000	56.88	--	45.49	4.22	74.0	--	54.0	-8.51	12.00	100	Vertical	Pass
11026.000	61.54	--	50.91	10.08	74.0	--	54.0	-3.09	0.00	100	Vertical	Pass
17120.000	61.53	--	50.09	10.37	74.0	--	54.0	-3.91	4.00	100	Vertical	Pass



GFSK-Low-ANT 2

Horizontal

RE_FCC Test Case_FCC 15C 1GHz-18GHz

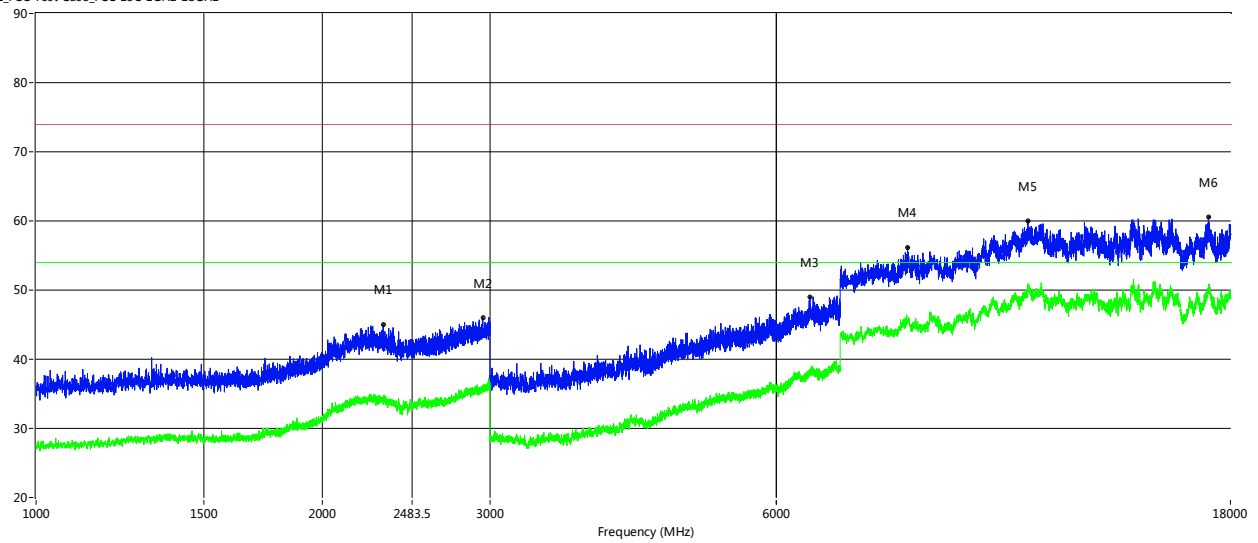


Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Over Limit (dB)	Table (o)	Height (cm)	ANT	Verdict
2232.000	44.65	--	33.89	4.45	74.0	--	54.0	-20.11	4.00	100	Horizontal	Pass
2965.500	46.10	--	35.41	5.96	74.0	--	54.0	-18.59	10.00	100	Horizontal	Pass
6916.000	49.69	--	38.75	0.47	74.0	--	54.0	-15.25	11.00	100	Horizontal	Pass
8463.000	55.37	--	44.09	4.51	74.0	--	54.0	-9.91	5.00	100	Horizontal	Pass
10674.000	60.47	--	49.79	8.28	74.0	--	54.0	-4.21	0.00	100	Horizontal	Pass
15208.750	60.96	--	50.23	10.95	74.0	--	54.0	-3.77	7.00	100	Horizontal	Pass



Vertical

RE_FCC Test Case_FCC 15C 1GHz-18GHz



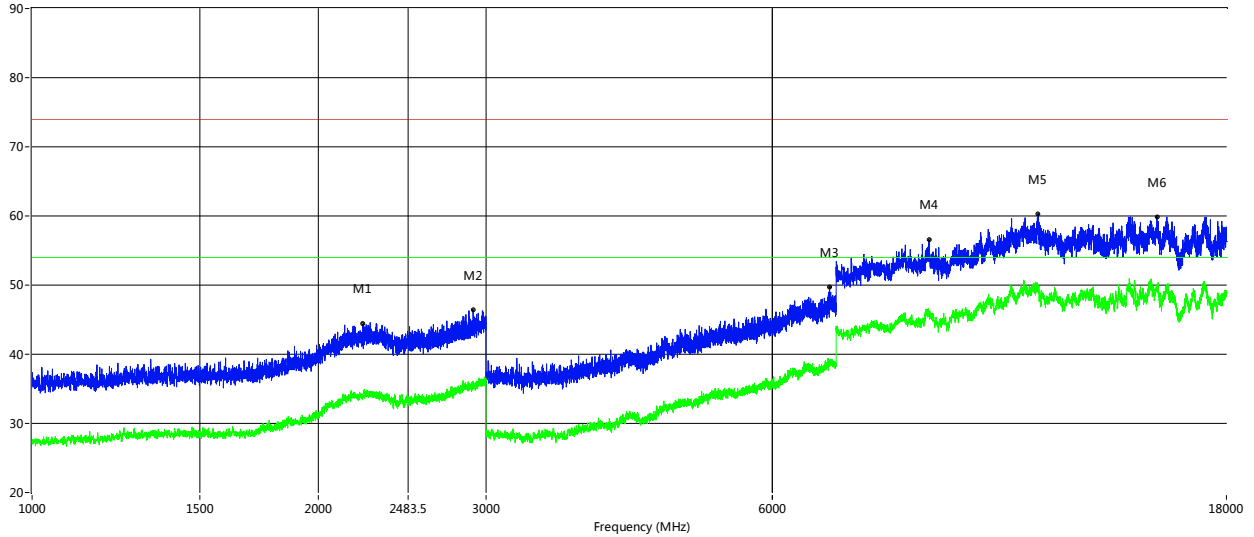
Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Over Limit (dB)	Table (o)	Height (cm)	ANT	Verdict
2316.000	45.01	--	34.37	4.52	74.0	--	54.0	-19.63	11.00	100	Vertical	Pass
2948.000	45.95	--	35.87	5.88	74.0	--	54.0	-18.13	6.00	100	Vertical	Pass
6508.000	49.03	--	38.43	-0.40	74.0	--	54.0	-15.57	12.00	100	Vertical	Pass
8243.000	56.14	--	45.73	4.22	74.0	--	54.0	-8.27	13.00	100	Vertical	Pass
11028.750	60.02	--	50.92	10.06	74.0	--	54.0	-3.08	6.00	100	Vertical	Pass
17067.750	60.60	--	50.24	10.25	74.0	--	54.0	-3.76	0.00	100	Vertical	Pass



GFSK-Mid-ANT 2

Horizontal

RE_FCC Test Case_FCC 15C 1GHz-18GHz

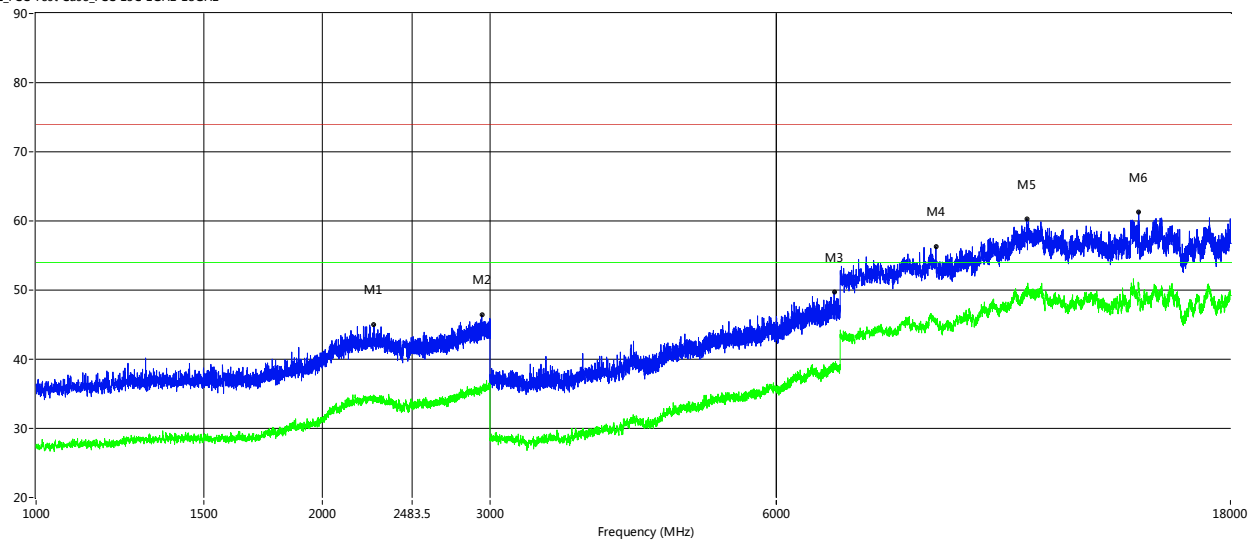


Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Over Limit (dB)	Table (o)	Height (cm)	ANT	Verdict
2228.500	44.38	--	34.28	4.41	74.0	--	54.0	-19.72	13.00	100	Horizontal	Pass
2908.500	46.38	--	35.68	5.66	74.0	--	54.0	-18.32	15.00	100	Horizontal	Pass
6890.000	49.73	--	39.09	0.41	74.0	--	54.0	-14.91	4.00	100	Horizontal	Pass
8765.500	56.57	--	46.11	4.96	74.0	--	54.0	-7.89	9.00	100	Horizontal	Pass
11413.750	60.25	--	48.98	9.77	74.0	--	54.0	-5.02	10.00	100	Horizontal	Pass
15217.000	59.84	--	49.81	10.86	74.0	--	54.0	-4.19	0.00	100	Horizontal	Pass



Vertical

RE_FCC Test Case_FCC 15C 1GHz-18GHz



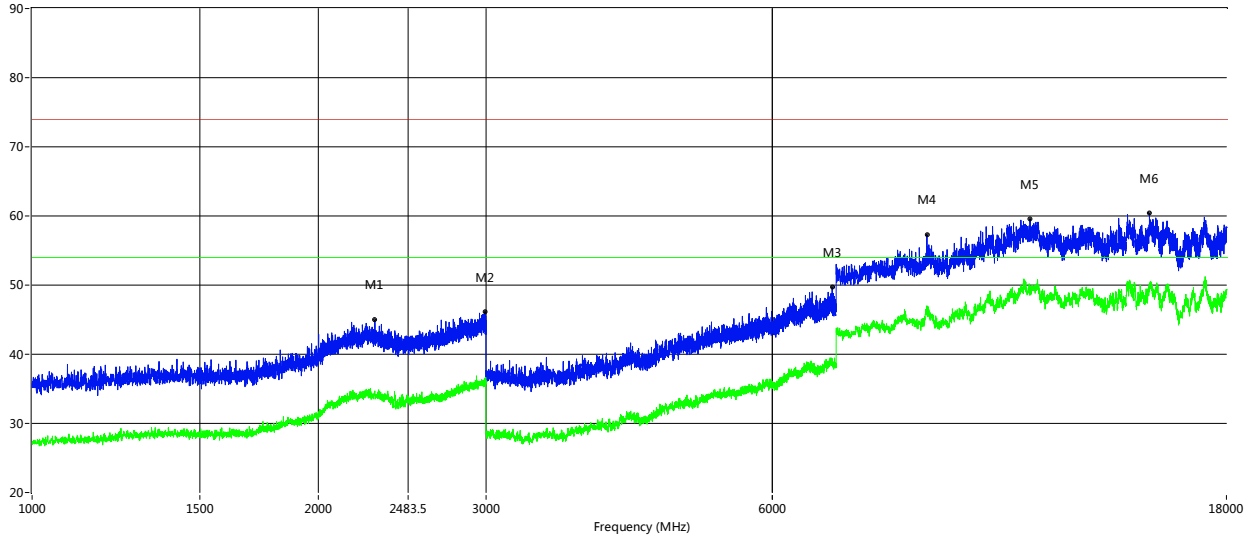
Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Over Limit (dB)	Table (o)	Height (cm)	ANT	Verdict
2264.000	44.96	--	34.83	4.62	74.0	--	54.0	-19.17	7.00	100	Vertical	Pass
2941.000	46.42	--	35.94	5.84	74.0	--	54.0	-18.06	8.00	100	Vertical	Pass
6899.000	49.75	--	39.20	0.46	74.0	--	54.0	-14.80	0.00	100	Vertical	Pass
8826.000	56.26	--	45.82	4.69	74.0	--	54.0	-8.18	9.00	100	Vertical	Pass
10995.750	60.32	--	49.34	10.19	74.0	--	54.0	-4.66	6.00	100	Vertical	Pass
14422.250	61.33	--	51.03	11.16	74.0	--	54.0	-2.97	3.00	100	Vertical	Pass



GFSK-High-ANT 2

Horizontal

RE_FCC Test Case_FCC 15C 1GHz-18GHz

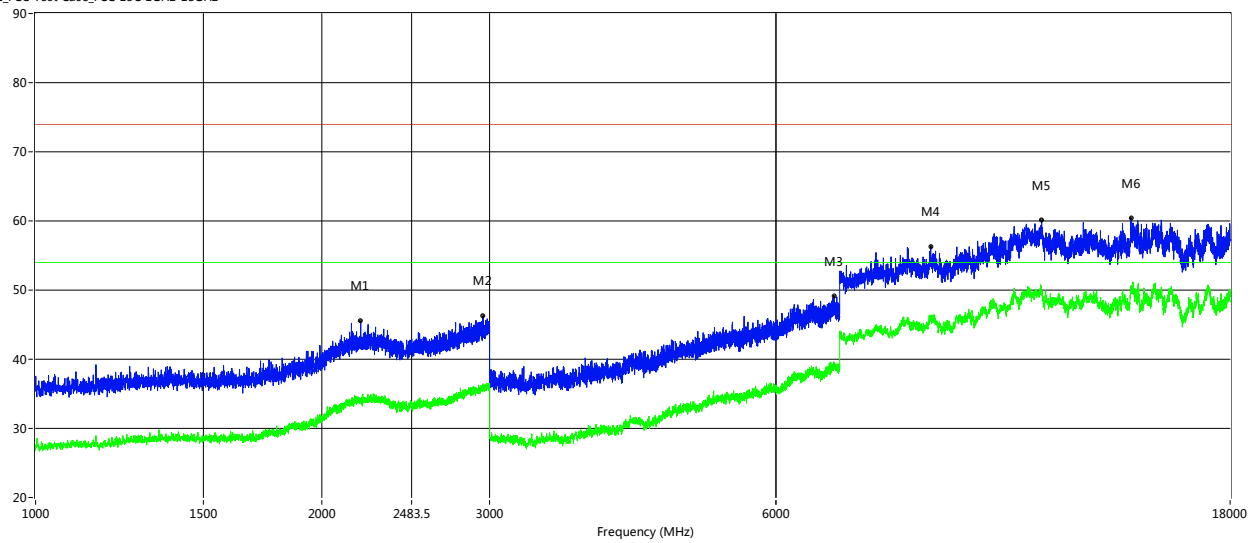


Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Over Limit (dB)	Table (o)	Height (cm)	ANT	Verdict
2292.500	44.99	--	34.69	4.59	74.0	--	54.0	-19.31	6.00	100	Horizontal	Pass
2993.500	46.21	--	36.02	6.08	74.0	--	54.0	-17.98	14.00	100	Horizontal	Pass
6934.000	49.69	--	39.33	0.48	74.0	--	54.0	-14.67	6.00	100	Horizontal	Pass
8721.500	57.34	--	47.02	5.09	74.0	--	54.0	-6.98	15.00	100	Horizontal	Pass
11193.750	59.55	--	49.61	9.61	74.0	--	54.0	-4.39	15.00	100	Horizontal	Pass
14944.750	60.38	--	50.22	10.11	74.0	--	54.0	-3.78	3.00	100	Horizontal	Pass



Vertical

RE_FCC Test Case_FCC 15C 1GHz-18GHz

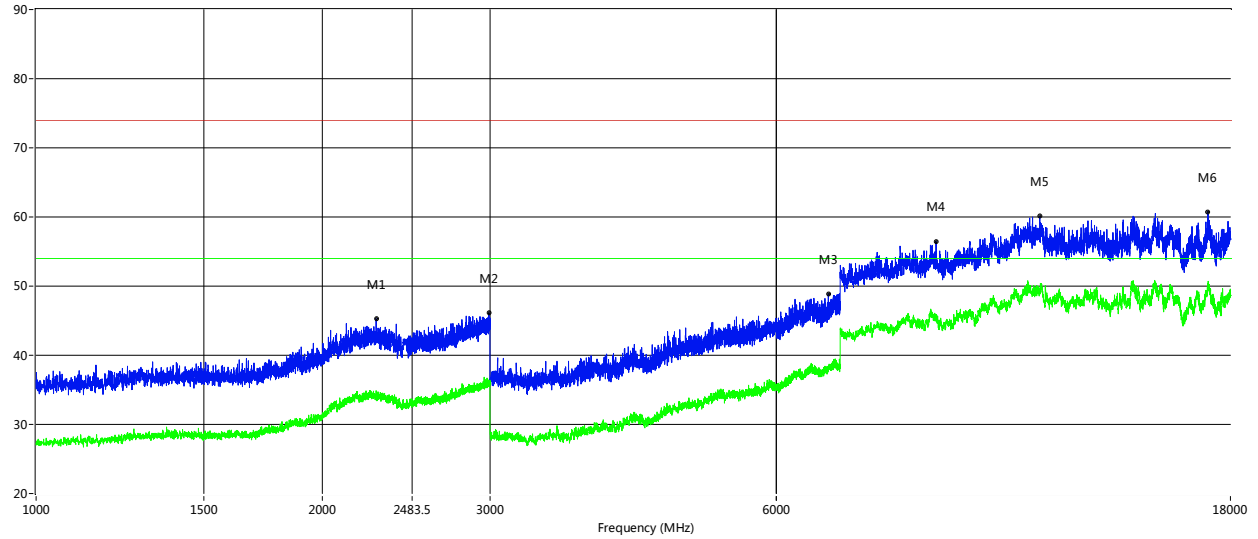


Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Over Limit (dB)	Table (o)	Height (cm)	ANT	Verdict
2196.500	45.55	--	33.99	4.14	74.0	--	54.0	-20.01	2.00	100	Vertical	Pass
2952.000	46.25	--	35.80	5.90	74.0	--	54.0	-18.20	8.00	100	Vertical	Pass
6903.000	49.13	--	39.61	0.46	74.0	--	54.0	-14.39	0.00	100	Vertical	Pass
8724.250	56.28	--	46.11	5.08	74.0	--	54.0	-7.89	0.00	100	Vertical	Pass
11411.000	60.09	--	49.42	9.77	74.0	--	54.0	-4.58	2.00	100	Vertical	Pass
14163.750	60.40	--	50.14	10.99	74.0	--	54.0	-3.86	10.00	100	Vertical	Pass



PP64Z
GFSK-Low-ANT 1
Horizontal

RE_FCC Test Case_FCC 15C 1GHz-18GHz

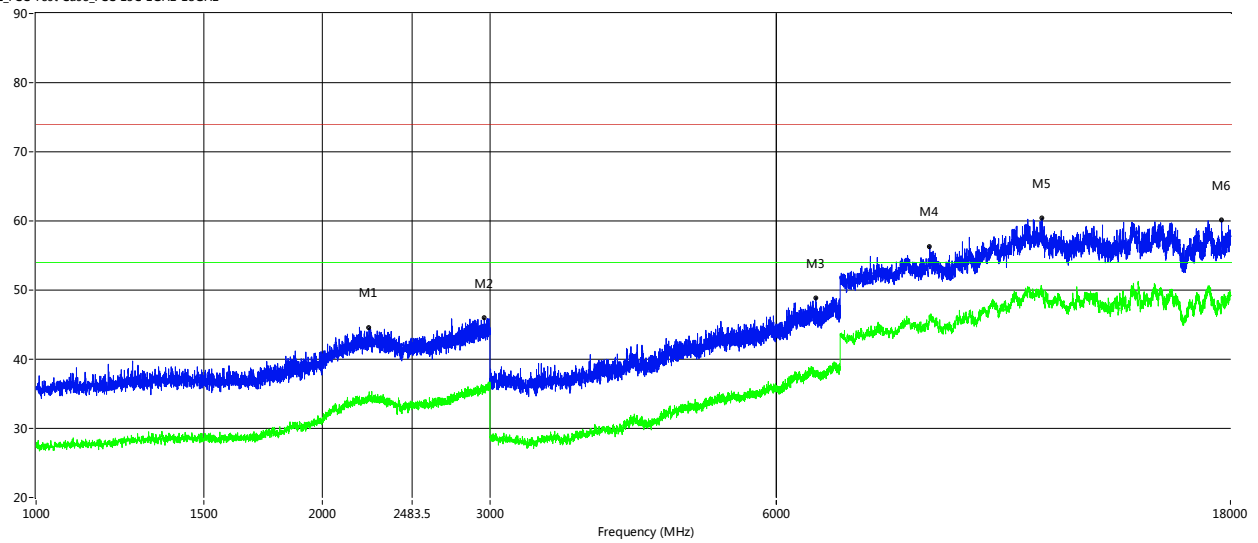


Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Over Limit (dB)	Table (o)	Height (cm)	ANT	Verdict
2277.500	45.29	--	34.88	4.61	74.0	--	54.0	-19.12	9.00	100	Horizontal	Pass
2992.000	46.15	--	35.75	6.08	74.0	--	54.0	-18.25	8.00	100	Horizontal	Pass
6803.000	48.87	--	38.17	-0.02	74.0	--	54.0	-15.83	12.00	100	Horizontal	Pass
8831.500	56.49	--	45.64	4.65	74.0	--	54.0	-8.36	12.00	100	Horizontal	Pass
11347.750	60.09	--	49.73	9.63	74.0	--	54.0	-4.27	9.00	100	Horizontal	Pass
17031.999	60.74	--	50.31	9.99	74.0	--	54.0	-3.69	7.00	100	Horizontal	Pass



Vertical

RE_FCC Test Case_FCC 15C 1GHz-18GHz



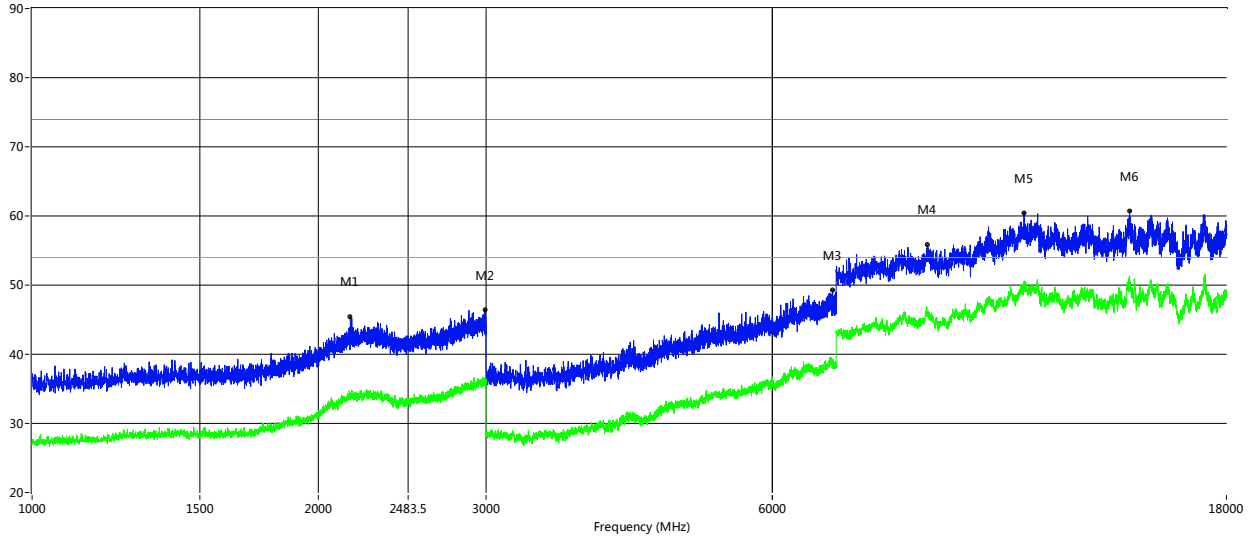
Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Over Limit (dB)	Table (o)	Height (cm)	ANT	Verdict
2239.000	44.56	--	34.02	4.52	74.0	--	54.0	-19.98	13.00	100	Vertical	Pass
2958.500	45.97	--	35.82	5.93	74.0	--	54.0	-18.18	4.00	100	Vertical	Pass
6600.000	48.91	--	38.09	-0.45	74.0	--	54.0	-15.91	9.00	100	Vertical	Pass
8696.750	56.33	--	46.14	5.12	74.0	--	54.0	-7.86	5.00	100	Vertical	Pass
11411.000	60.39	--	49.64	9.77	74.0	--	54.0	-4.36	6.00	100	Vertical	Pass
17623.251	60.11	--	48.94	10.02	74.0	--	54.0	-5.06	0.00	100	Vertical	Pass



GFSK-Mid-ANT 1

Horizontal

RE_FCC Test Case_FCC 15C 1GHz-18GHz

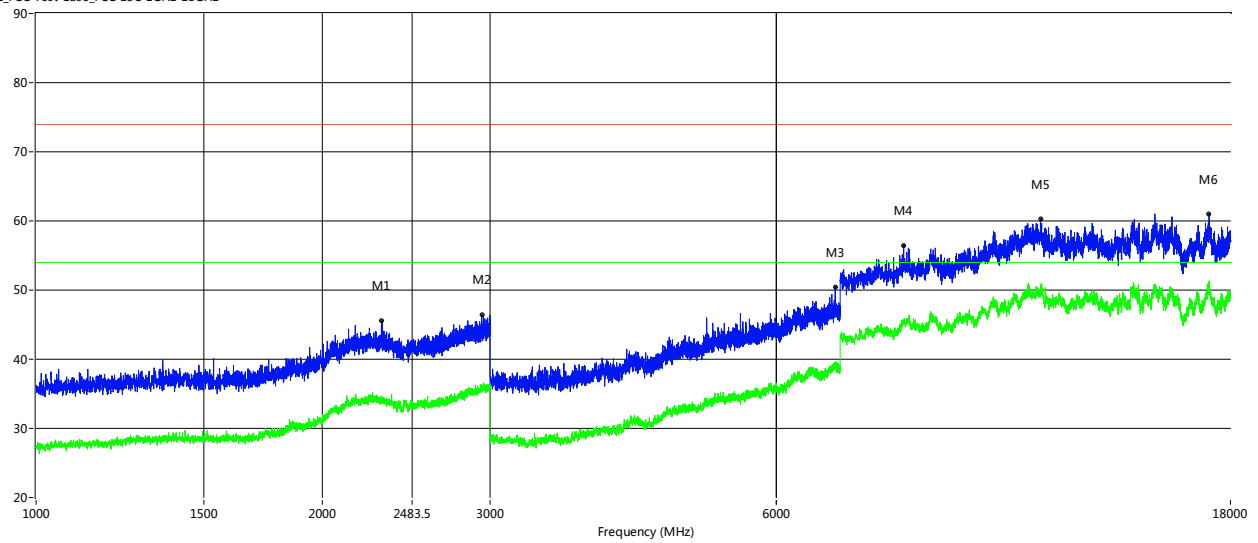


Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Over Limit (dB)	Table (o)	Height (cm)	ANT	Verdict
2160.500	45.39	--	33.98	4.52	74.0	--	54.0	-20.02	9.00	100	Horizontal	Pass
2993.000	46.46	--	36.18	6.08	74.0	--	54.0	-17.82	6.00	100	Horizontal	Pass
6941.000	49.25	--	39.21	0.49	74.0	--	54.0	-14.79	8.00	100	Horizontal	Pass
8738.000	55.80	--	45.56	5.04	74.0	--	54.0	-8.44	1.00	100	Horizontal	Pass
11031.500	60.49	--	50.28	10.05	74.0	--	54.0	-3.72	6.00	100	Horizontal	Pass
14243.500	60.73	--	50.21	11.26	74.0	--	54.0	-3.79	3.00	100	Horizontal	Pass



Vertical

RE_FCC Test Case_FCC 15C 1GHz-18GHz



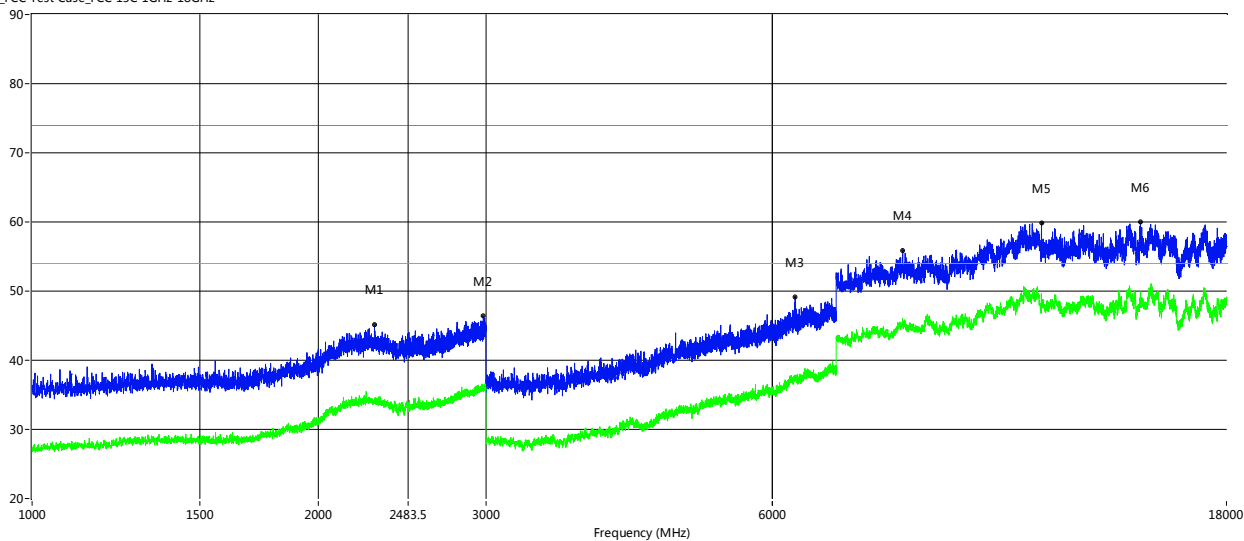
Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Over Limit (dB)	Table (o)	Height (cm)	ANT	Verdict
2310.000	45.54	--	34.13	4.54	74.0	--	54.0	-19.87	4.00	100	Vertical	Pass
2940.500	46.42	--	35.81	5.84	74.0	--	54.0	-18.19	12.00	100	Vertical	Pass
6918.000	50.38	--	39.09	0.47	74.0	--	54.0	-14.91	9.00	100	Vertical	Pass
8163.250	56.44	--	45.21	4.19	74.0	--	54.0	-8.79	9.00	100	Vertical	Pass
11367.000	60.22	--	49.20	9.67	74.0	--	54.0	-4.80	0.00	100	Vertical	Pass
17098.000	61.02	--	51.35	10.47	74.0	--	54.0	-2.65	8.00	100	Vertical	Pass



GFSK-High-ANT 1

Horizontal

RE_FCC Test Case_FCC 15C 1GHz-18GHz

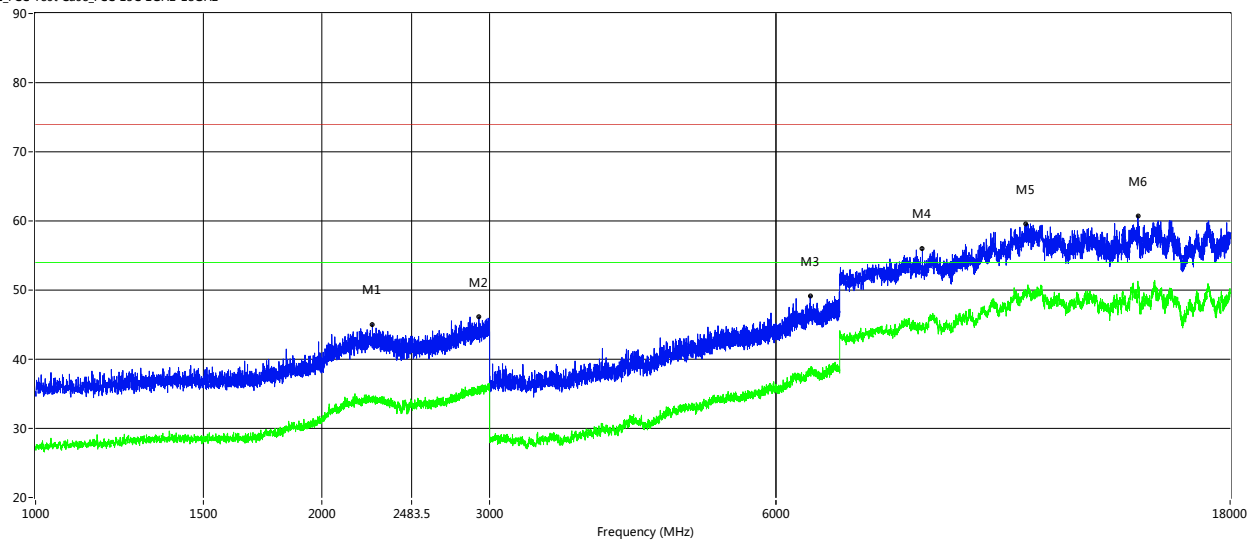


Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Over Limit (dB)	Table (o)	Height (cm)	ANT	Verdict
2290.000	45.11	--	34.07	4.59	74.0	--	54.0	-19.93	13.00	100	Horizontal	Pass
2980.500	46.37	--	35.40	6.03	74.0	--	54.0	-18.60	15.00	100	Horizontal	Pass
6341.000	49.16	--	37.37	-1.39	74.0	--	54.0	-16.63	13.00	100	Horizontal	Pass
8223.750	55.86	--	44.88	4.21	74.0	--	54.0	-9.12	5.00	100	Horizontal	Pass
11507.250	59.92	--	48.51	9.96	74.0	--	54.0	-5.49	6.00	100	Horizontal	Pass
14617.500	59.95	--	49.69	11.16	74.0	--	54.0	-4.31	4.00	100	Horizontal	Pass



Vertical

RE_FCC Test Case_FCC 15C 1GHz-18GHz



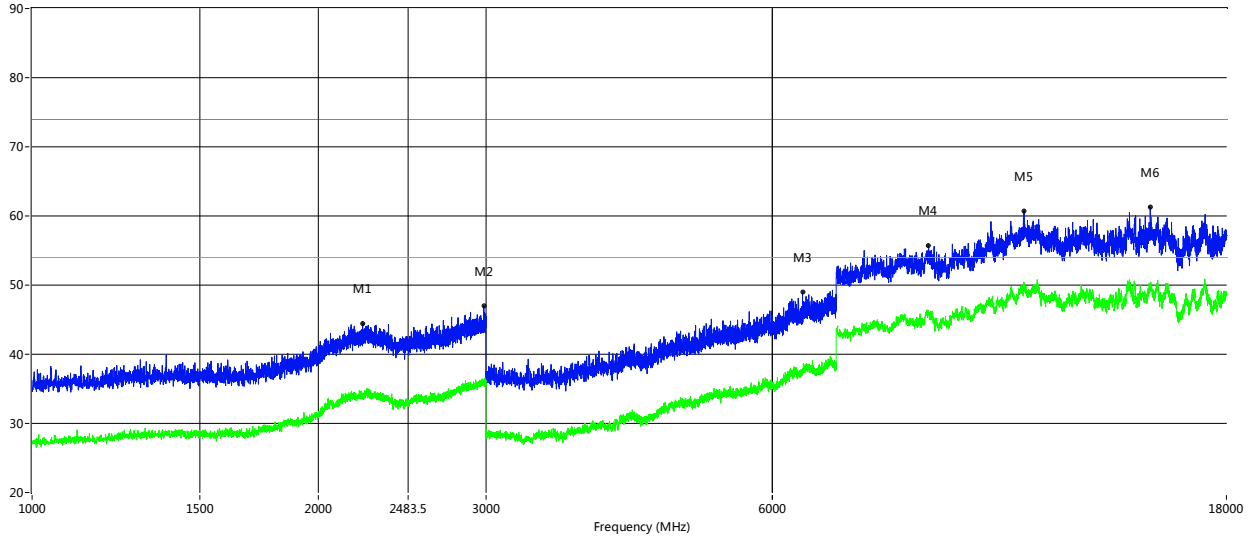
Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Over Limit (dB)	Table (o)	Height (cm)	ANT	Verdict
2260.000	45.04	--	34.43	4.63	74.0	--	54.0	-19.57	9.00	100	Vertical	Pass
2923.500	46.12	--	35.24	5.74	74.0	--	54.0	-18.76	8.00	100	Vertical	Pass
6519.000	49.11	--	38.23	-0.41	74.0	--	54.0	-15.77	13.00	100	Vertical	Pass
8551.000	55.94	--	44.92	4.34	74.0	--	54.0	-9.08	5.00	100	Vertical	Pass
10984.750	59.59	--	49.67	10.10	74.0	--	54.0	-4.33	9.00	100	Vertical	Pass
14403.000	60.66	--	51.21	11.39	74.0	--	54.0	-2.79	10.00	100	Vertical	Pass



GFSK-Low-ANT 2

Horizontal

RE_FCC Test Case_FCC 15C 1GHz-18GHz

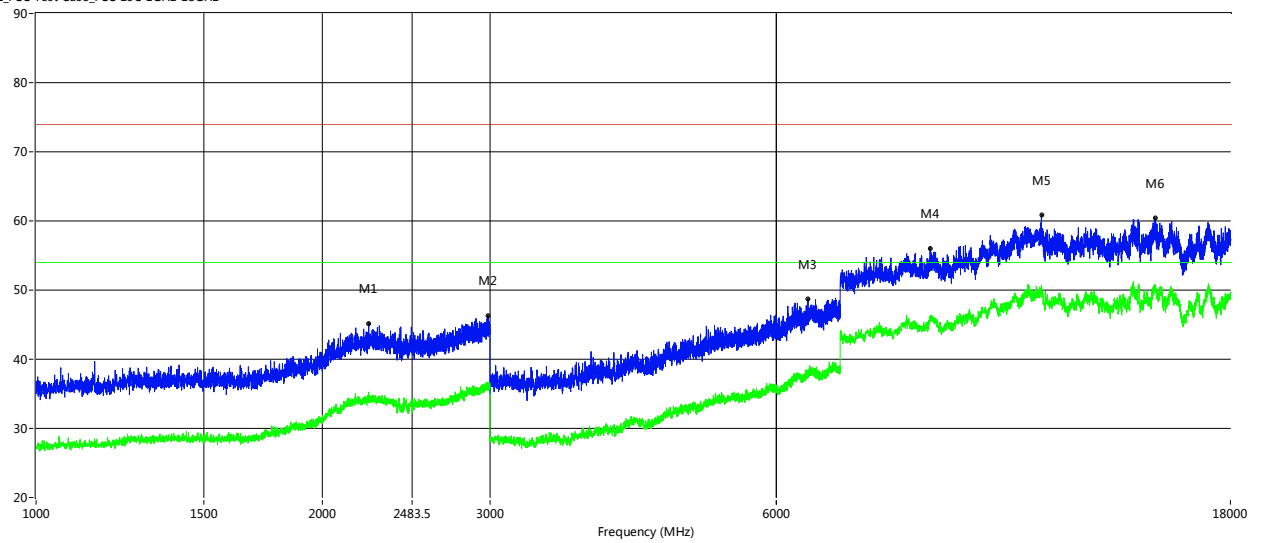


Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Over Limit (dB)	Table (o)	Height (cm)	ANT	Verdict
2226.000	44.45	--	34.12	4.38	74.0	--	54.0	-19.88	15.00	100	Horizontal	Pass
2984.000	47.05	--	36.23	6.04	74.0	--	54.0	-17.77	10.00	100	Horizontal	Pass
6453.000	48.97	--	37.52	-0.81	74.0	--	54.0	-16.48	15.00	100	Horizontal	Pass
8757.250	55.74	--	45.69	4.98	74.0	--	54.0	-8.31	2.00	100	Horizontal	Pass
11028.750	60.69	--	50.44	10.06	74.0	--	54.0	-3.56	13.00	100	Horizontal	Pass
14972.250	61.26	--	49.68	10.26	74.0	--	54.0	-4.32	4.00	100	Horizontal	Pass



Vertical

RE_FCC Test Case_FCC 15C 1GHz-18GHz



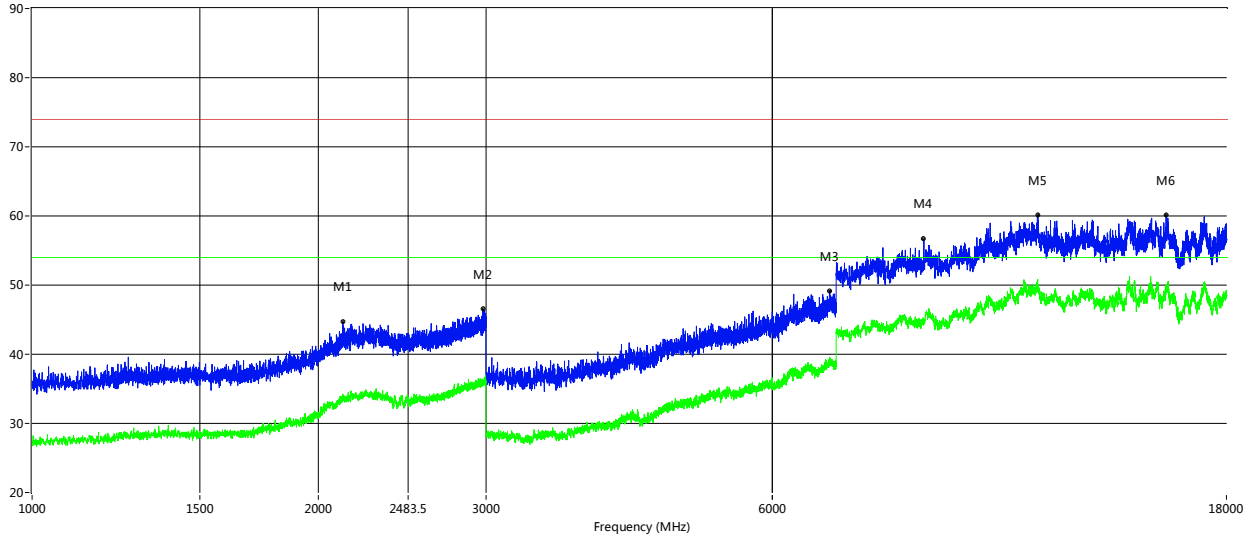
Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Over Limit (dB)	Table (o)	Height (cm)	ANT	Verdict
2237.000	45.19	--	34.18	4.50	74.0	--	54.0	-19.82	9.00	100	Vertical	Pass
2985.000	46.29	--	35.66	6.05	74.0	--	54.0	-18.34	13.00	100	Vertical	Pass
6475.000	48.70	--	38.43	-0.62	74.0	--	54.0	-15.57	8.00	100	Vertical	Pass
8705.000	56.02	--	46.00	5.14	74.0	--	54.0	-8.00	9.00	100	Vertical	Pass
11394.500	60.85	--	50.70	9.73	74.0	--	54.0	-3.30	13.00	100	Vertical	Pass
14999.750	60.36	--	50.78	10.40	74.0	--	54.0	-3.22	4.00	100	Vertical	Pass



GFSK-Mid-ANT 2

Horizontal

RE_FCC Test Case_FCC 15C 1GHz-18GHz

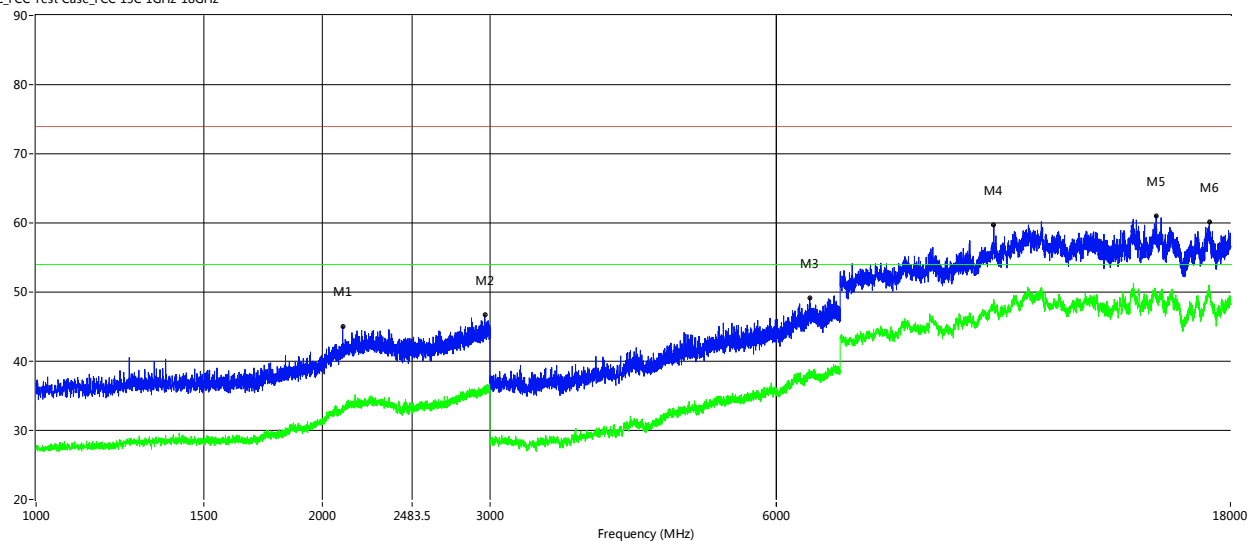


Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Over Limit (dB)	Table (o)	Height (cm)	ANT	Verdict
2121.500	44.66	--	34.25	4.15	74.0	--	54.0	-19.75	7.00	100	Horizontal	Pass
2976.000	46.52	--	36.07	6.01	74.0	--	54.0	-17.93	13.00	100	Horizontal	Pass
6894.000	49.15	--	39.01	0.43	74.0	--	54.0	-14.99	9.00	100	Horizontal	Pass
8655.500	56.67	--	44.55	4.66	74.0	--	54.0	-9.45	0.00	100	Horizontal	Pass
11408.250	60.09	--	49.80	9.76	74.0	--	54.0	-4.20	14.00	100	Horizontal	Pass
15560.750	60.18	--	50.04	10.77	74.0	--	54.0	-3.96	4.00	100	Horizontal	Pass



Vertical

RE_FCC Test Case_FCC 15C 1GHz-18GHz



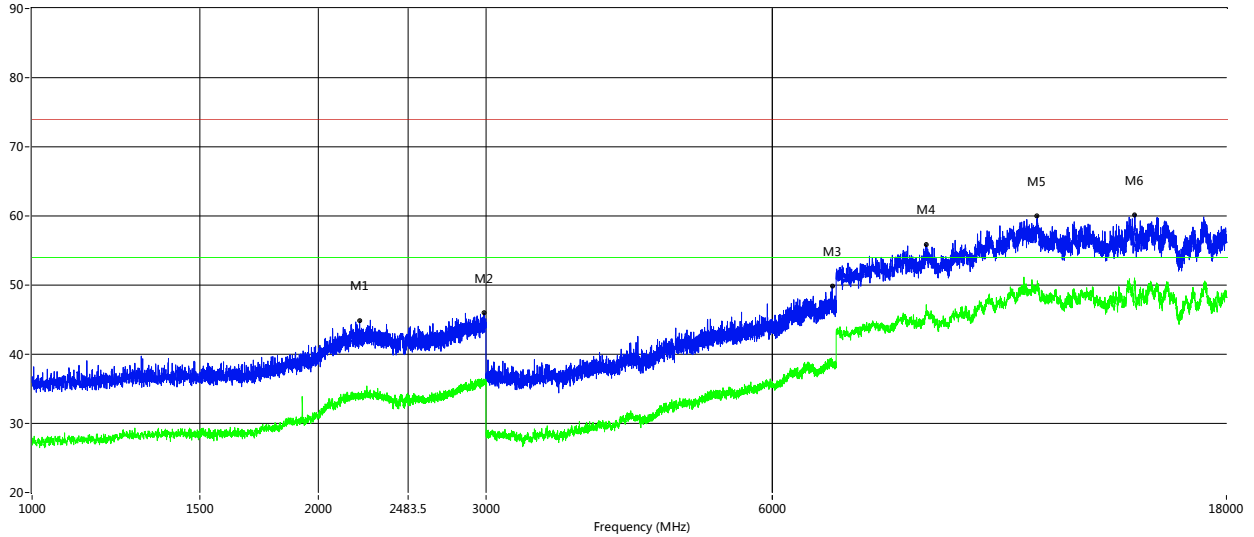
Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Over Limit (dB)	Table (o)	Height (cm)	ANT	Verdict
2100.500	45.02	--	33.66	3.80	74.0	--	54.0	-20.34	9.00	100	Vertical	Pass
2963.000	46.68	--	36.40	5.95	74.0	--	54.0	-17.60	6.00	100	Vertical	Pass
6503.000	49.12	--	38.43	-0.40	74.0	--	54.0	-15.57	10.00	100	Vertical	Pass
10154.250	59.68	--	48.93	7.14	74.0	--	54.0	-5.07	15.00	100	Vertical	Pass
15041.000	61.03	--	49.31	10.36	74.0	--	54.0	-4.69	0.00	100	Vertical	Pass
17109.000	60.12	--	49.97	10.43	74.0	--	54.0	-4.03	10.00	100	Vertical	Pass



GFSK-High-ANT 2

Horizontal

RE_FCC Test Case_FCC 15C 1GHz-18GHz

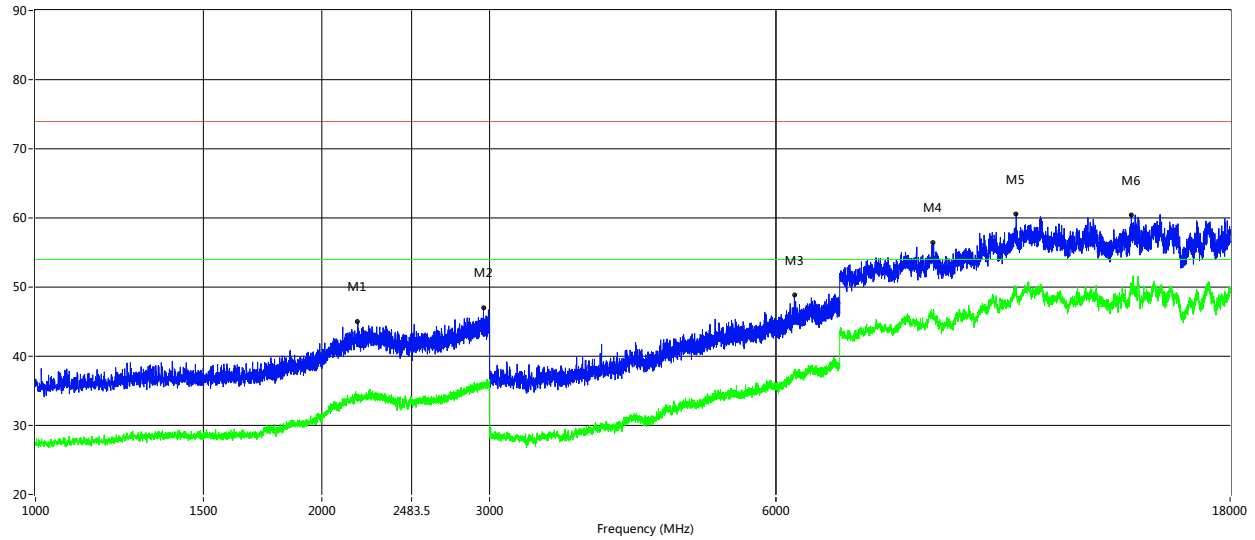


Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Over Limit (dB)	Table (o)	Height (cm)	ANT	Verdict
2209.500	44.85	--	33.95	4.20	74.0	--	54.0	-20.05	11.00	100	Horizontal	Pass
2988.500	45.99	--	35.98	6.06	74.0	--	54.0	-18.02	8.00	100	Horizontal	Pass
6933.000	49.82	--	38.81	0.48	74.0	--	54.0	-15.19	2.00	100	Horizontal	Pass
8702.250	55.90	--	45.55	5.15	74.0	--	54.0	-8.45	8.00	100	Horizontal	Pass
11389.000	59.94	--	50.17	9.72	74.0	--	54.0	-3.83	2.00	100	Horizontal	Pass
14425.000	60.20	--	50.01	11.13	74.0	--	54.0	-3.99	14.00	100	Horizontal	Pass



Vertical

RE_FCC Test Case_FCC 15C 1GHz-18GHz



Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Over Limit (dB)	Table (o)	Height (cm)	ANT	Verdict
2181.000	45.00	--	34.12	4.30	74.0	--	54.0	-19.88	7.00	100	Vertical	Pass
2955.500	47.02	--	35.52	5.92	74.0	--	54.0	-18.48	15.00	100	Vertical	Pass
6273.000	48.79	--	37.48	-1.64	74.0	--	54.0	-16.52	4.00	100	Vertical	Pass
8762.750	56.37	--	46.06	4.97	74.0	--	54.0	-7.94	12.00	100	Vertical	Pass
10729.000	60.64	--	50.03	8.32	74.0	--	54.0	-3.97	6.00	100	Vertical	Pass
14180.250	60.46	--	50.16	11.27	74.0	--	54.0	-3.84	3.00	100	Vertical	Pass



APENDIX B PHOTOS OF TEST SETUP

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

※※※※※ END OF THE REPORT ※※※※※

