



Radio Test Report

Report No.: STS2605022W06

Issued for

THINKCAR TECH CO., LTD.

2606, building 4, phase II, TiananYungu, Gangtou community,
Bantian, Longgang District, Shenzhen, China

Product Name: Wireless Intelligent Automotive Diagnostic
Scanner

Brand Name: THINKCAR, MUCAR

Model Name: BT201

Series Model(s): N/A

FCC ID: 2AUARTKD200

Test Standards: FCC Part15.247

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd.

**TEST REPORT**

Applicant's Name..... : THINKCAR TECH CO., LTD.
Address : 2606, building 4, phase II, TiananYungu, Gangtou community,
Bantian, Longgang District, Shenzhen, China
Manufacturer's Name : THINKCAR TECH CO., LTD.
Address : 2606, building 4, phase II, TiananYungu, Gangtou community,
Bantian, Longgang District, Shenzhen, China

Product Description

Product Name : Wireless Intelligent Automotive Diagnostic Scanner
Brand Name : THINKCAR, MUCAR
Model Name : BT201
Series Model(s) : N/A

Test Standards..... : FCC Part15.247

Test Procedure : ANSI C63.10-2020+COR 1-2023

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

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd.

Date of Test..... :

Date of receipt of test item : 31 Mar. 2026

Date (s) of performance of tests..... : 31 Mar. 2026 ~ 15 Apr. 2026

Date of Issue..... : 21 May 2026

Test Result..... : **Pass**

Testing Engineer :

Aaron Bu

(Aaron Bu)

Technical Manager :

Skylar Li

(Skylar Li)

Authorized Signatory :

Bovey Yang

(Bovey Yang)





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**Revision History**

Rev.	Issue Date	Report No.	Effect Page	Contents
00	15 Apr. 2026	STS2603242W06	ALL	Initial Issue
00	21 May 2026	STS2605022W06	ALL	1.Change Product Name and Model Name. 2.Resistor R48:4.7K change to 47K, and tested radiation spurious. 3. Change appearance.



1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:
KDB 558074 D01 15.247 Meas Guidance v05r02.

FCC Part 15.247, Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	N/A	--
15.247 (a)(2)	6dB Bandwidth	N/A	--
15.247 (b)(3)	Output Power	N/A	--
15.209	Radiated Spurious Emission	PASS	--
15.247 (d)	Conducted Spurious & Band Edge Emission	N/A	--
15.247 (e)	Power Spectral Density	N/A	--
15.205	Restricted bands of operation	N/A	--
Part 15.247(d)/ Part 15.209(a)	Band Edge Emission	N/A	--
15.203	Antenna Requirement	PASS	--

Note:

- (1) 'N/A' denotes test is not applicable in this Test Report.
- (2) All tests are according to ANSI C63.10-2020+Cor 1-2023..



1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add. : 101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ, Fuhai 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	$\pm 0.751\text{dB}$
2	Unwanted Emissions, conducted	$\pm 2.888\text{dB}$
3	All emissions, radiated 9K-30MHz	$\pm 2.48\text{dB}$
4	All emissions, radiated 30M-1GHz	$\pm 2.52\text{dB}$
5	All emissions, radiated 1G-18GHz	$\pm 3.48\text{dB}$
6	All emissions, radiated >18GHz	$\pm 4.18\text{dB}$
7	Conducted Emission (9KHz-150KHz)	$\pm 2.48\text{dB}$
8	Conducted Emission (150KHz-30MHz)	$\pm 2.52\text{dB}$
9	Occupied Channel Bandwidth	$\pm 3.6\%$
10	Power Spectral Density, conducted	$\pm 1.214\text{dB}$
11	Duty Cycle	$\pm 3.2\%$



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Wireless Intelligent Automotive Diagnostic Scanner	
Brand Name	THINKCAR, MUCAR	
Model Name	BT201	
Series Model(s)	N/A	
Model Difference	N/A	
Product Description	The EUT is a Wireless Intelligent Automotive Diagnostic Scanner	
	Operation Frequency:	2402~2480 MHz
	Modulation Type:	GFSK
	Radio Technology:	BLE
	Bluetooth Configuration:	LE(Support 1M PHY, 2M PHY)
	Number Of Channel:	40
	Antenna Type:	PCB
	Antenna Gain (dBi)	0
Channel List	Please refer to the Note 3.	
Power Rating	Input: DC 9-18V 100mA	
Adapter	N/A	
Battery	N/A	
Hardware version number	V1.0	
Software version number	V1.0	
Connecting I/O Port(s)	Please refer to the Note 1.	

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.
2. The antenna information refer the manufacturer provide report, applicable only to the tested sample identified in the report. Due to the incorrect antenna information, a series of problems such as the accuracy of the test results will be borne by the customer.



3.

Channel List							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	10	2422	20	2442	30	2462
01	2404	11	2424	21	2444	31	2464
02	2406	12	2426	22	2446	32	2466
03	2408	13	2428	23	2448	33	2468
04	2410	14	2430	24	2450	34	2470
05	2412	15	2432	25	2452	35	2472
06	2414	16	2434	26	2454	36	2474
07	2416	17	2436	27	2456	37	2476
08	2418	18	2438	28	2458	38	2478
09	2420	19	2440	29	2460	39	2480

2.2 DESCRIPTION OF THE TEST MODES

For conducted test items and radiated spurious emissions

Each of these EUT operation mode(s) or test configuration mode(s) mentioned below was evaluated respectively.

Worst Mode	Description	Data/Modulation
Mode 1	TX CH00(2402MHz)	1M PHY /GFSK
Mode 2	TX CH19(2440MHz)	1M PHY /GFSK
Mode 3	TX CH39(2480MHz)	1M PHY /GFSK

Worst Mode	Description	Data/Modulation
Mode 4	TX CH00(2402MHz)	2M PHY /GFSK
Mode 5	TX CH19(2440MHz)	2M PHY /GFSK
Mode 6	TX CH39(2480MHz)	2M PHY /GFSK

Note:

(1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.

(2) We have be tested for all avaiable U.S. voltage and frequencies(For 120V,50/60Hz and 240V, 50/60Hz) for which the device is capable of operation, and the worst case of 120V/60Hz is shown in the report.



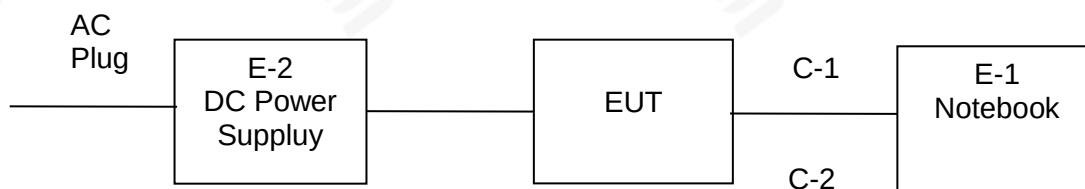
2.3 TEST SOFTWARE AND POWER LEVEL

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

RF Function	Type	Mode Or Modulation type	ANT Gain(dBi)	Power Class	Software For Testing
BLE(With 2M PHY)	BLE_1M PHY	GFSK	0	4	SSCOM 5.13.1
	BLE_2M PHY	GFSK		4	

2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test





2.5 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.

Item	Equipment	Mfr/Brand	Model/Type No.	Note
E-1	Notebook	DELL	Inspiron 3501	N/A
E-2	DC power supply	HONGSHENG FENG	DPS-305AF	N/A
C-1	Serial port board	XES	WTYZK	N/A
C-2	USB Cable	MI	RYEW3A	N/A

Item	Equipment	Mfr/Brand	Length	Note
C-2	Shielded	NO	150cm	N/A

Note:

- (1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (2) “YES” is means “with core”; “NO” is means “without core”.



2.6 EQUIPMENTS LIST

RF Radiation Test Equipment					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
Temperature & Humidity	SW-108	SuWei	N/A	2026.02.04	2027.02.03
Pre-Amplifier(0.1M-3GHz)	EM	EM330	060665	2026.02.04	2027.02.03
Pre-Amplifier(1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2025.09.25	2026.09.24
Pre-Amplifier(18G-40GHz)	SKET	LNPA_1840-50	SK2018101801	2026.03.04	2027.03.03
Active loop Antenna	ZHINAN	ZN30900C	16035	2025.02.25	2027.02.24
Bilog Antenna	TESEQ	CBL6111D	34678	2025.09.27	2027.09.26
Horn Antenna	SCHWARZBECK	BBHA 9120D	02014	2025.09.27	2027.09.26
Horn Antenna	A-INFOMW	LB-180400-KF	J211020657	2025.09.27	2027.09.26
Positioning Controller	MF	MF-7802	MF-780208587	N/A	N/A
Signal Analyzer	R&S	FSV 40-N	101823	2025.09.26	2026.09.25
Switch Control Box	SKET	SU319E	51409043	2025.09.25	2026.09.24
Band 2.4G-2.5G Filter	HX MICROWAVE	HXLBQ-DZA61	N/A	2025.09.23	2026.09.22
Antenna Mast	MF	MFA-440H	N/A	N/A	N/A
Turn Table	MF	SC100_1	60531	N/A	N/A
AC Power Source	APC	KDF-11010G	F214050035	N/A	N/A
DC power supply	HONGSHENGFE NG	DPS-305AF	17064939	2025.09.22	2026.09.21
RF Coaxial Cable	LEITAI M-WAVE	CA360	DC-18G	2025.09.26	2026.09.25
RF Coaxial Cable	LEITAI M-WAVE	CA360	DC-18G	2025.09.26	2026.09.25
RF Coaxial Cable	LEITAI M-WAVE	CA3507	DC-40G	2025.09.26	2026.09.25
RF Coaxial Cable	LEITAI M-WAVE	CA3507	DC-40G	2025.09.26	2026.09.25
Test SW	EZ-EMC	Ver.STSLAB-03A1 RE			



3. RADIATED EMISSION MEASUREMENT

3.1 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)&209(a) limit in the table and according to ANSI C63.10-2020+COR 1-2023 below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (0.009MHz - 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 (1000MHz-25GHz)

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).

LIMITS OF RESTRICTED FREQUENCY BANDS

FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (GHz)
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	Above 38.6
13.36-13.41			



For Radiated Emission

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/QP/AV
Start Frequency	9 KHz/150KHz(Peak/QP/AV)
Stop Frequency	150KHz/30MHz(Peak/QP/AV)
RB / VB (emission in restricted band)	200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz); 200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz)

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/QP
Start Frequency	30 MHz(Peak/QP)
Stop Frequency	1000 MHz (Peak/QP)
RB / VB (emission in restricted band)	120 KHz / 300 KHz

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(Peak) 1 MHz/1/T MHz(AVG)

For Restricted band

Spectrum Parameter	Setting
Detector	Peak/AV
Start/Stop Frequency	Lower Band Edge: 2310 to 2410 MHz Upper Band Edge: 2475 to 2500 MHz
RB / VB	1 MHz / 3 MHz(Peak) 1 MHz/1/T MHz(AVG)



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

3.2 TEST PROCEDURE

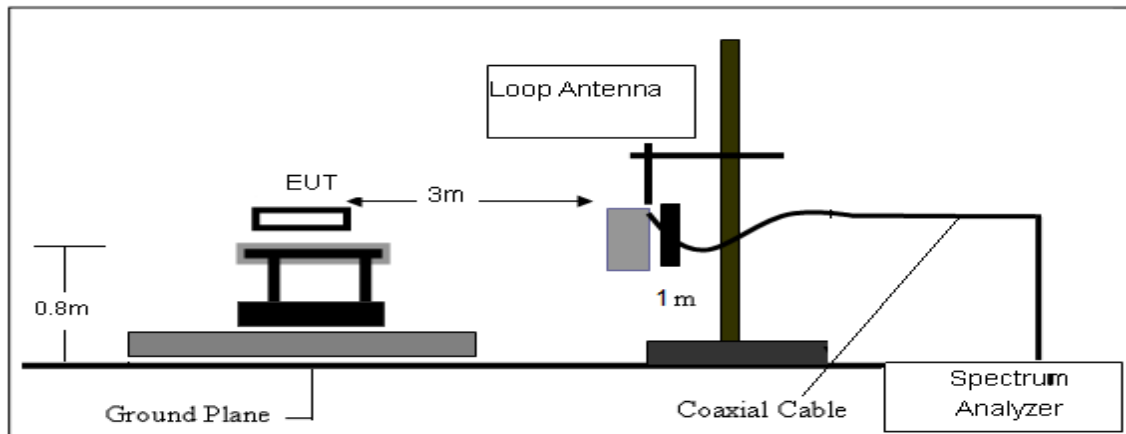
- The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the position of the highest radiation.
- 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 polarization of the antenna are set to make the measurement.
- 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 QuasiPeak detector mode will be re-measured.
- If the Peak Mode measured value is compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and no additional QP Mode measurement was performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

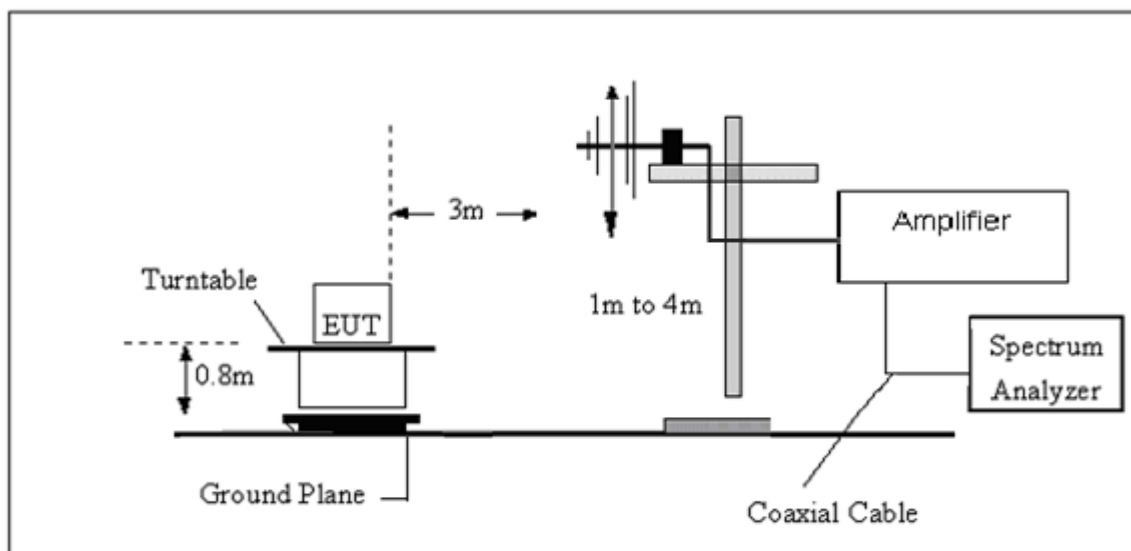
Both horizontal and vertical antenna polarities were tested with a band-stop filter and performed pretest to three orthogonal axis. The worst-case emissions were reported.

3.3 TEST SETUP

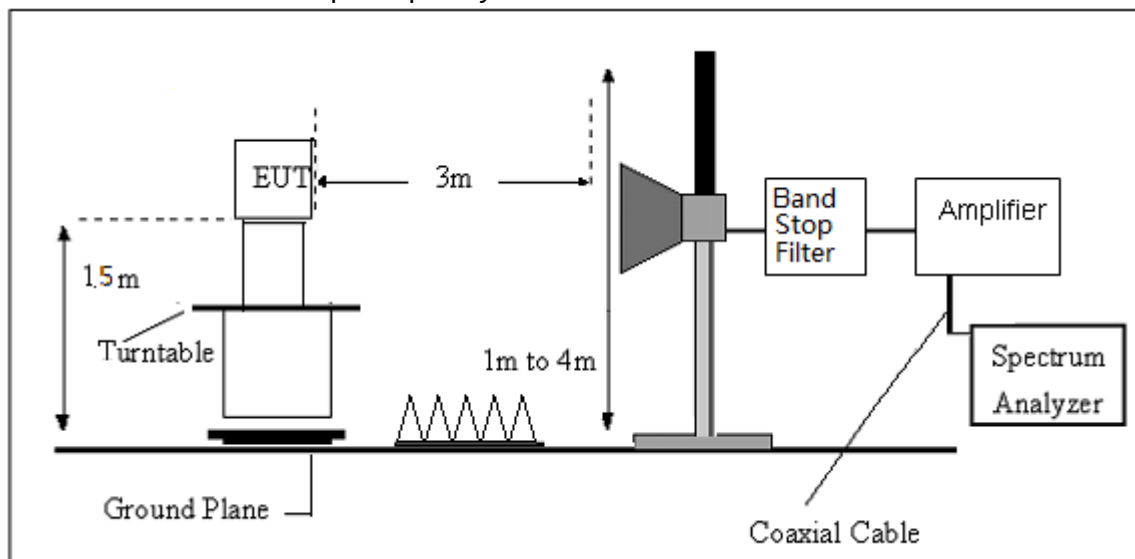
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



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





3.4 EUT OPERATING CONDITIONS

Please refer to section 3.4 of this report.

3.5 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:

$$FS = RA + AF + CL - AG$$

Where

FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

For example

Frequency	FS	RA	AF	CL	AG	Factor
(MHz)	(dBμV/m)	(dBμV/m)	(dB)	(dB)	(dB)	(dB)
300	40	58.1	12.2	1.6	31.9	-18.1

$$\text{Factor} = \text{AF} + \text{CL} - \text{AG}$$



3.6 TEST RESULTS

(Between 9KHz – 30 MHz)

Temperature:	23.4 °C	Relative Humidity:	60%
Test Voltage:	DC 12V	Polarization:	--
Test Mode:	TX Mode		

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	PASS
--	--	--	--	PASS

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor = $40 \log (\text{specific distance/test distance})$ (dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.



(30MHz -1000MHz)

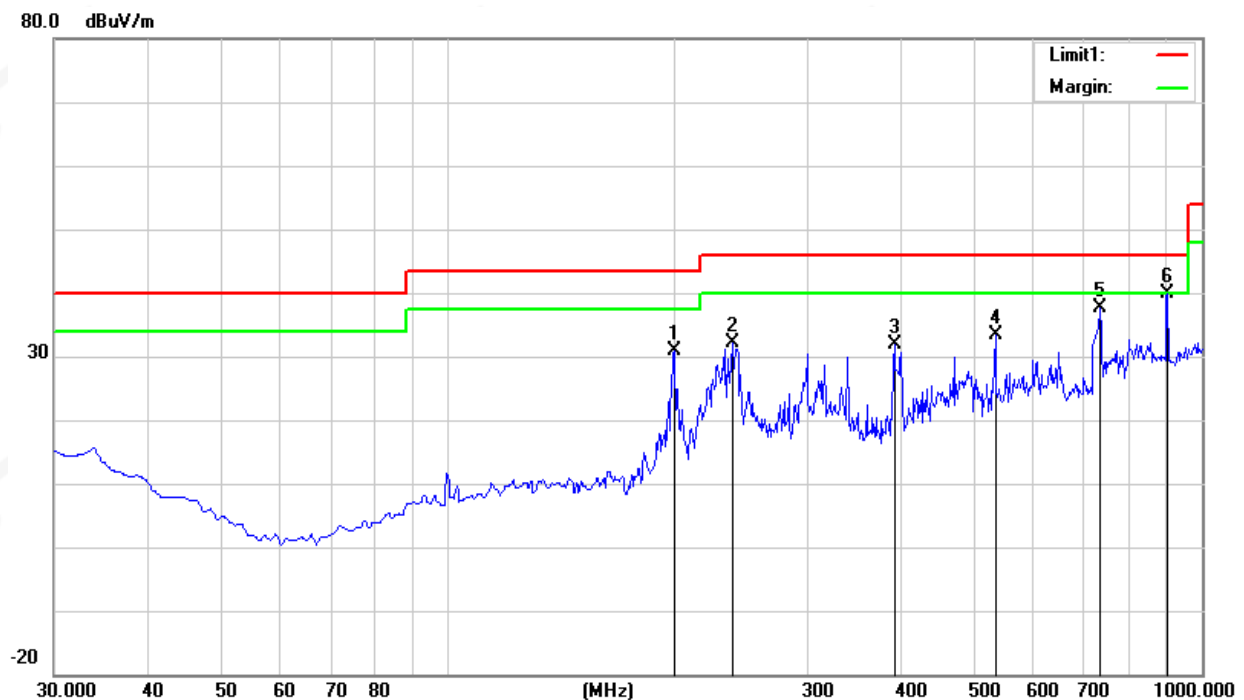
1M PHY

Temperature:	23.4℃	Relative Humidity:	60%
Test Voltage:	DC 12V	Phase:	Horizontal
Test Mode:	Note: All modes have been measurement, only worst mode is reported.		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	199.7500	51.90	-21.11	30.79	43.50	-12.71	peak
2	238.5500	50.35	-18.23	32.12	46.00	-13.88	peak
3	390.8400	43.43	-11.54	31.89	46.00	-14.11	peak
4	532.4600	40.71	-7.31	33.40	46.00	-12.60	peak
5	734.2200	40.06	-2.31	37.75	46.00	-8.25	peak
6	901.0600	40.27	-0.43	39.84	46.00	-6.16	peak

Remark:

1. Margin = Result (Result =Reading + Factor)-Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain
3. All modes have been tested,only show the worst case.





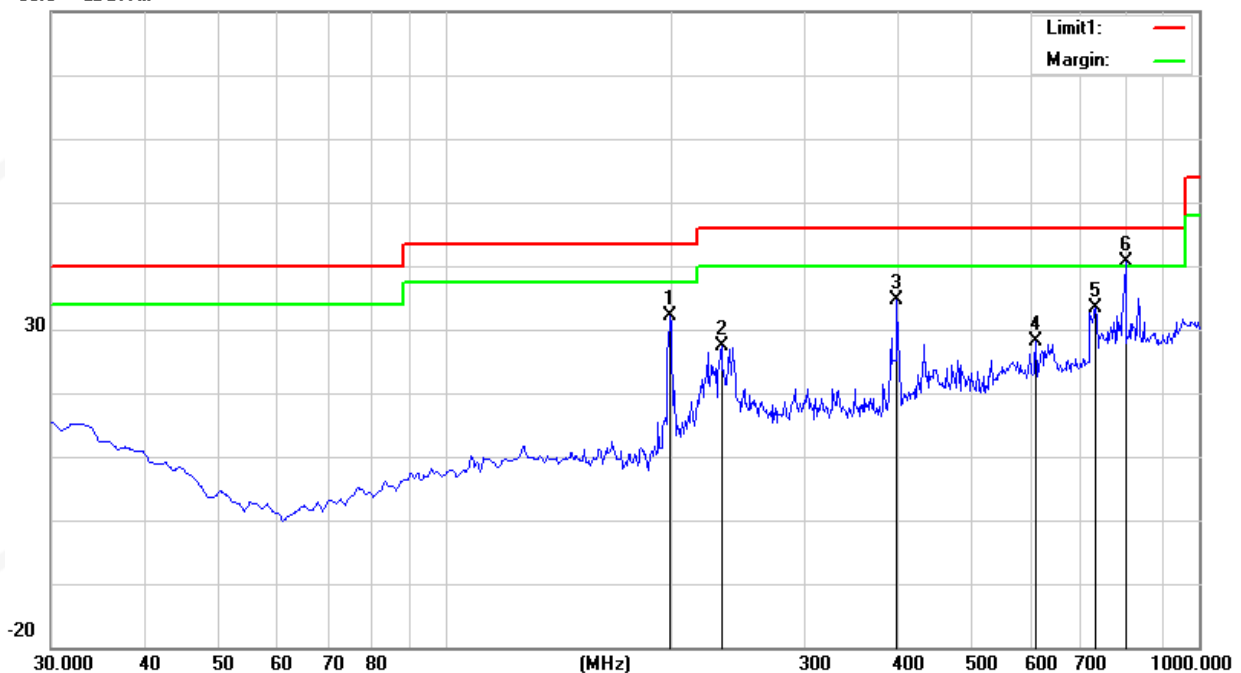
Temperature:	23.4℃	Relative Humidity:	60%
Test Voltage:	DC 12V	Phase:	Vertical
Test Mode:	Note: All modes have been measurement, only worst mode is reported.		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	198.7800	53.21	-21.12	32.09	43.50	-11.41	peak
2	232.7300	46.16	-18.89	27.27	46.00	-18.73	peak
3	398.6000	45.71	-11.20	34.51	46.00	-11.49	peak
4	609.0900	33.62	-5.54	28.08	46.00	-17.92	peak
5	729.3700	35.88	-2.52	33.36	46.00	-12.64	peak
6	800.1800	42.56	-2.05	40.51	46.00	-5.49	peak

Remark:

1. Margin = Result (Result =Reading + Factor)-Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain
3. All modes have been tested,only show the worst case.

80.0 dBuV/m





2M PHY

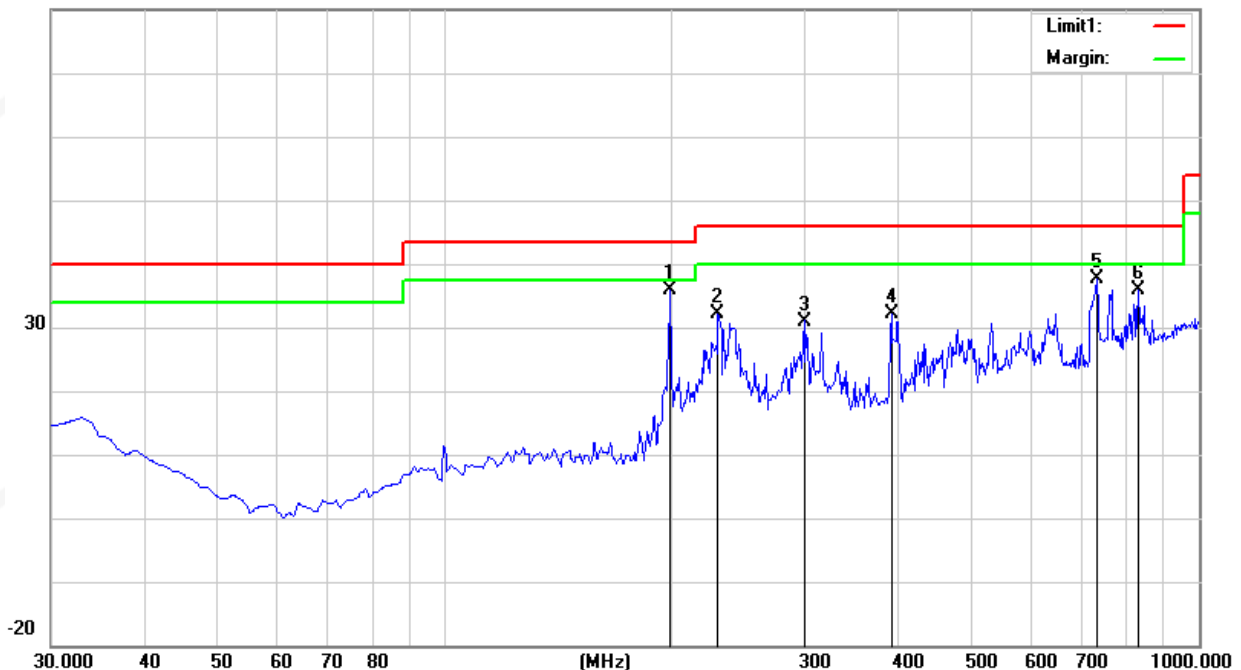
Temperature:	23.4℃	Relative Humidity:	60%
Test Voltage:	DC 12V	Phase:	Horizontal
Test Mode:	Note: All modes have been measurement, only worst mode is reported.		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	198.7800	56.97	-21.12	35.85	43.50	-7.65	peak
2	230.7900	51.24	-19.05	32.19	46.00	-13.81	peak
3	299.6600	45.82	-14.82	31.00	46.00	-15.00	peak
4	390.8400	43.78	-11.54	32.24	46.00	-13.76	peak
5	734.2200	39.86	-2.31	37.55	46.00	-8.45	peak
6	831.2200	36.49	-0.70	35.79	46.00	-10.21	peak

Remark:

1. Margin = Result (Result =Reading + Factor)-Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain
3. All modes have been tested,only show the worst case.

80.0 dBuV/m



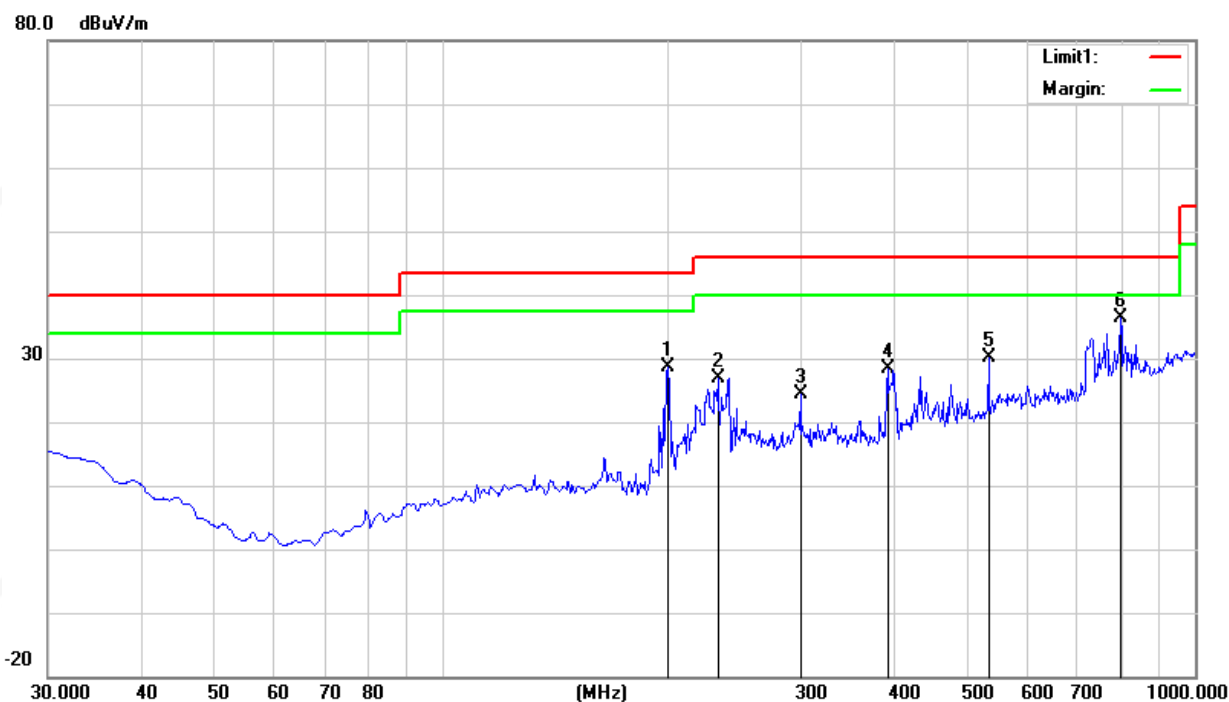


Temperature:	23.4℃	Relative Humidity:	60%
Test Voltage:	DC 12V	Phase:	Vertical
Test Mode:	Note: All modes have been measurement, only worst mode is reported.		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	199.7500	49.69	-21.11	28.58	43.50	-14.92	peak
2	232.7300	45.77	-18.89	26.88	46.00	-19.12	peak
3	299.6600	39.22	-14.82	24.40	46.00	-21.60	peak
4	390.8400	39.86	-11.54	28.32	46.00	-17.68	peak
5	532.4600	37.41	-7.31	30.10	46.00	-15.90	peak
6	798.2400	38.47	-2.03	36.44	46.00	-9.56	peak

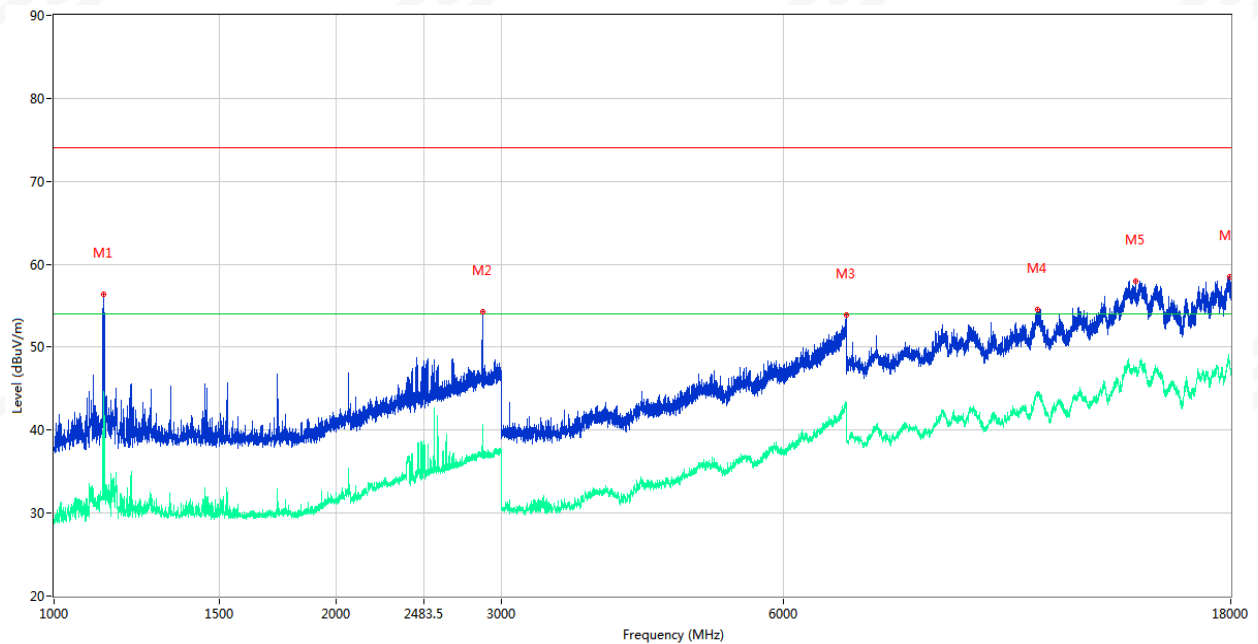
Remark:

1. $\text{Margin} = \text{Result} (\text{Result} = \text{Reading} + \text{Factor}) - \text{Limit}$
2. $\text{Factor} = \text{Antenna factor} + \text{Cable attenuation factor (cable loss)} - \text{Amplifier gain}$
3. All modes have been tested, only show the worst case.





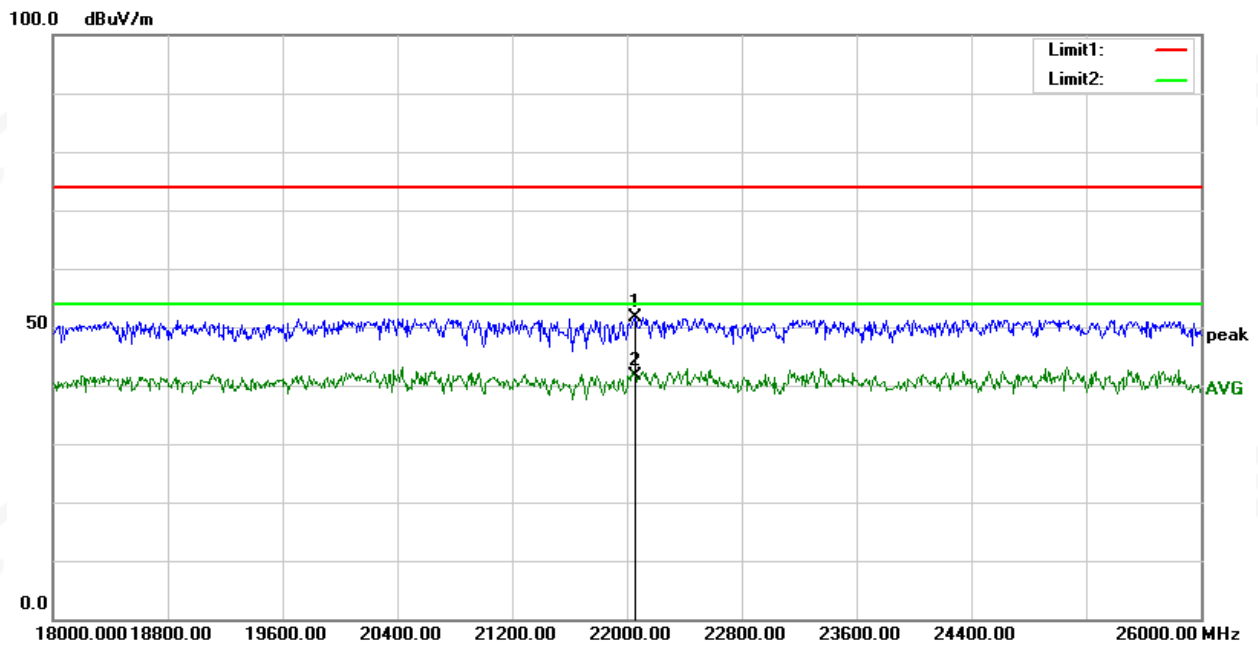
(1GHz-25GHz) Spurious emission Requirements

1M PHY
Low Channel
Horizontal

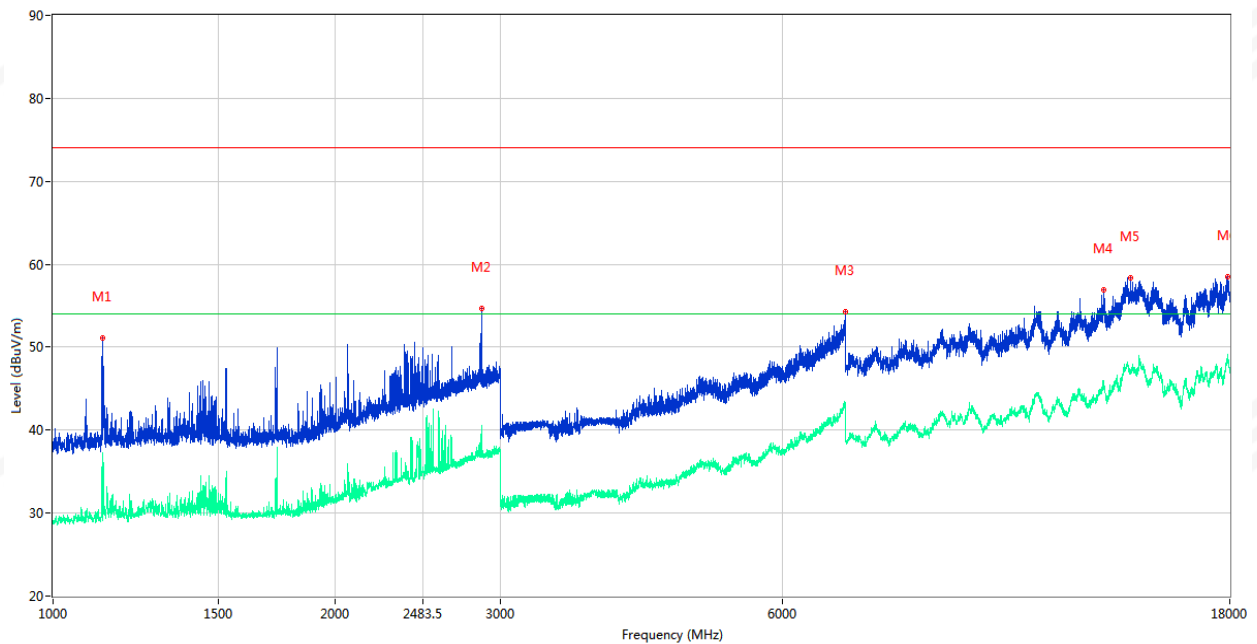
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1130.500	56.34	-1.71	74.0	-17.66	Peak	159.10	Horizontal	Pass
1**	1130.500	44.70	-1.71	54.0	-9.30	AV	159.10	Horizontal	Pass
2	2865.000	54.32	4.97	74.0	-19.68	Peak	124.80	Horizontal	Pass
2**	2865.000	40.71	4.97	54.0	-13.29	AV	124.80	Horizontal	Pass
3	7000.000	53.90	1.32	74.0	-20.10	Peak	87.70	Horizontal	Pass
3**	7000.000	43.09	1.32	54.0	-10.91	AV	87.70	Horizontal	Pass
4	11191.000	54.55	2.57	74.0	-19.45	Peak	341.00	Horizontal	Pass
4**	11191.000	44.05	2.57	54.0	-9.95	AV	341.00	Horizontal	Pass
5	14238.000	57.98	6.93	74.0	-16.02	Peak	301.60	Horizontal	Pass
5**	14238.000	47.16	6.93	54.0	-6.84	AV	301.60	Horizontal	Pass
6	17964.249	58.44	6.75	74.0	-15.56	Peak	147.90	Horizontal	Pass
6**	17964.249	47.93	6.75	54.0	-6.07	AV	147.90	Horizontal	Pass



18GHz-26GHz



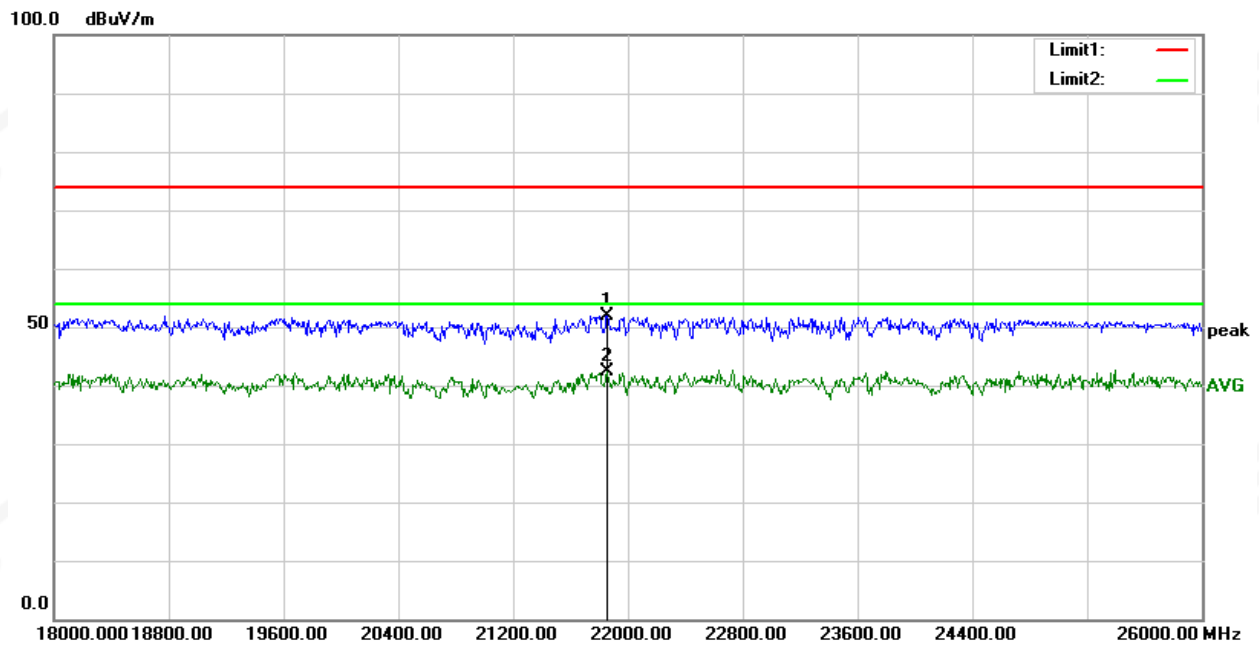
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/ m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	22056.000	48.24	3.47	51.71	74.00	-22.29	peak
2	22056.000	38.08	3.47	41.55	54.00	-12.45	AVG

Vertical
1GHz-18GHz

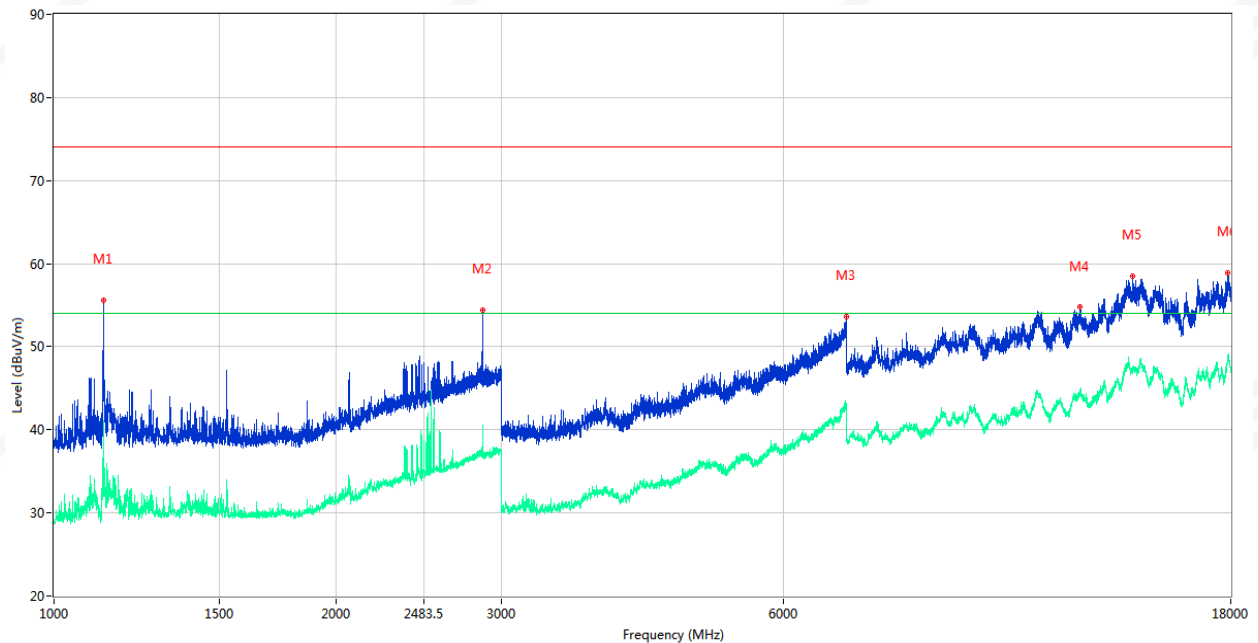
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1128.500	51.11	-1.71	74.0	-22.89	Peak	42.40	Vertical	Pass
1**	1128.500	37.21	-1.71	54.0	-16.79	AV	42.40	Vertical	Pass
2	2864.500	54.71	4.97	74.0	-19.29	Peak	146.50	Vertical	Pass
2**	2864.500	40.59	4.97	54.0	-13.41	AV	146.50	Vertical	Pass
3	6996.000	54.22	1.29	74.0	-19.78	Peak	355.70	Vertical	Pass
3**	6996.000	43.26	1.29	54.0	-10.74	AV	355.70	Vertical	Pass
4	13206.750	56.92	5.31	74.0	-17.08	Peak	64.90	Vertical	Pass
4**	13206.750	45.61	5.31	54.0	-8.39	AV	64.90	Vertical	Pass
5	14095.000	58.42	6.93	74.0	-15.58	Peak	173.40	Vertical	Pass
5**	14095.000	47.04	6.93	54.0	-6.96	AV	173.40	Vertical	Pass
6	17928.499	58.51	7.02	74.0	-15.49	Peak	36.60	Vertical	Pass
6**	17928.499	48.57	7.02	54.0	-5.43	AV	36.60	Vertical	Pass



18GHz-26GHz



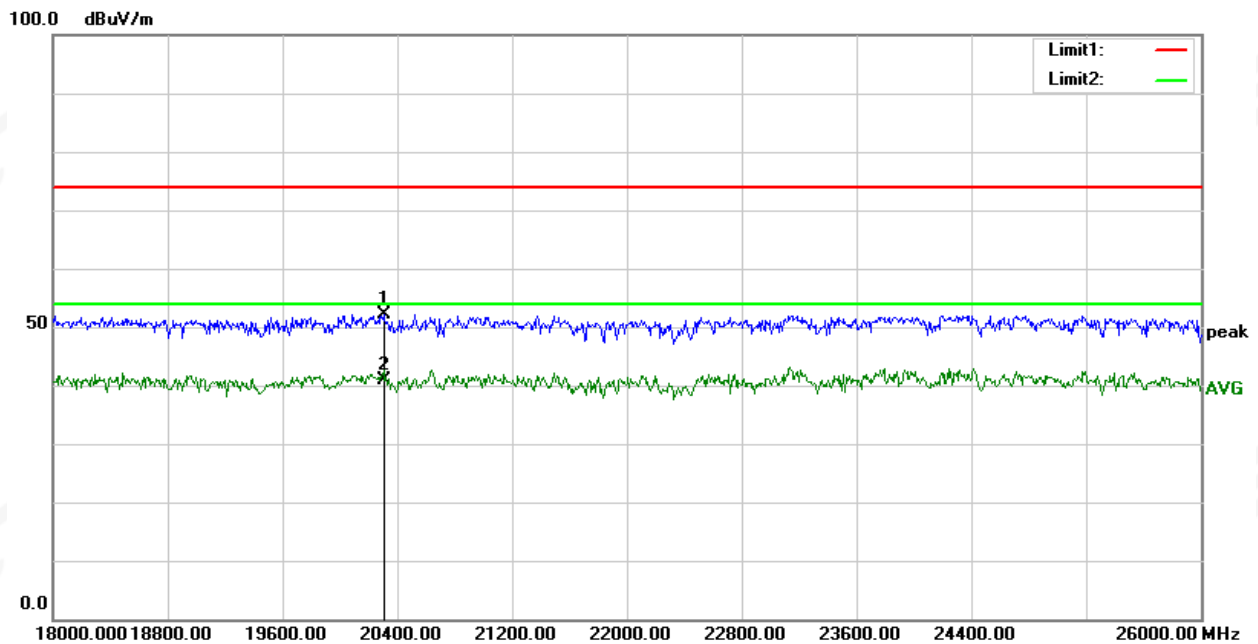
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	21856.000	48.67	3.27	51.94	74.00	-22.06	peak
2	21856.000	39.14	3.27	42.41	54.00	-11.59	AVG

Mid Channel
Horizontal
1GHz-18GHz

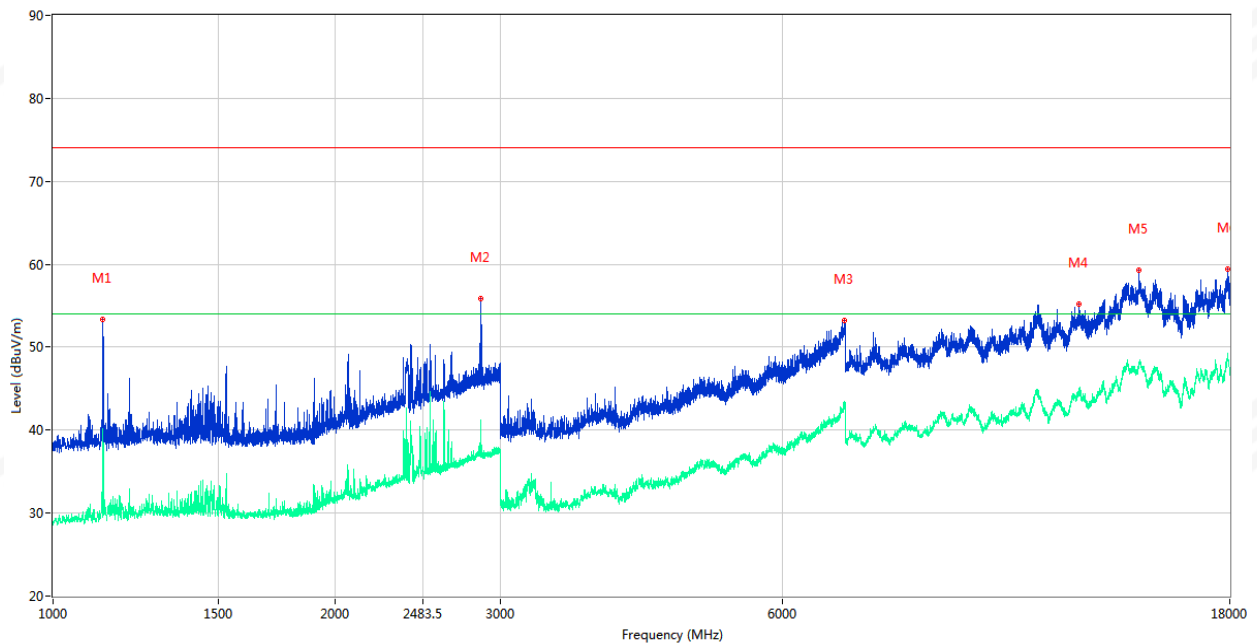
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1129.000	55.56	-1.71	74.0	-18.44	Peak	162.40	Horizontal	Pass
1**	1129.000	41.10	-1.71	54.0	-12.90	AV	162.40	Horizontal	Pass
2	2865.500	54.39	4.97	74.0	-19.61	Peak	116.70	Horizontal	Pass
2**	2865.500	40.59	4.97	54.0	-13.41	AV	116.70	Horizontal	Pass
3	6999.000	53.59	1.31	74.0	-20.41	Peak	360.10	Horizontal	Pass
3**	6999.000	43.18	1.31	54.0	-10.82	AV	360.10	Horizontal	Pass
4	12417.500	54.76	3.00	74.0	-19.24	Peak	244.10	Horizontal	Pass
4**	12417.500	44.32	3.00	54.0	-9.68	AV	244.10	Horizontal	Pass
5	14144.500	58.54	6.90	74.0	-15.46	Peak	246.30	Horizontal	Pass
5**	14144.500	47.31	6.90	54.0	-6.69	AV	246.30	Horizontal	Pass
6	17881.750	58.87	7.08	74.0	-15.13	Peak	20.70	Horizontal	Pass
6**	17881.750	49.03	7.08	54.0	-4.97	AV	20.70	Horizontal	Pass



18GHz-26GHz



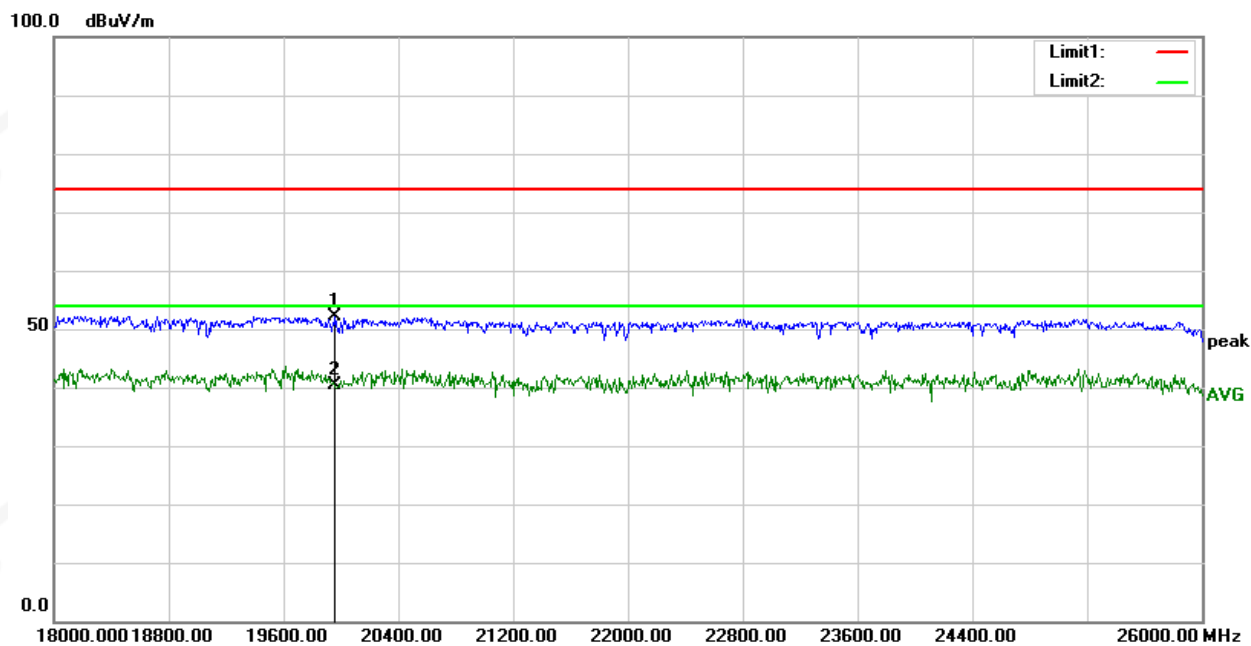
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	20304.000	50.09	2.06	52.15	74.00	-21.85	peak
2	20304.000	38.80	2.06	40.86	54.00	-13.14	AVG

Vertical
1GHz-18GHz

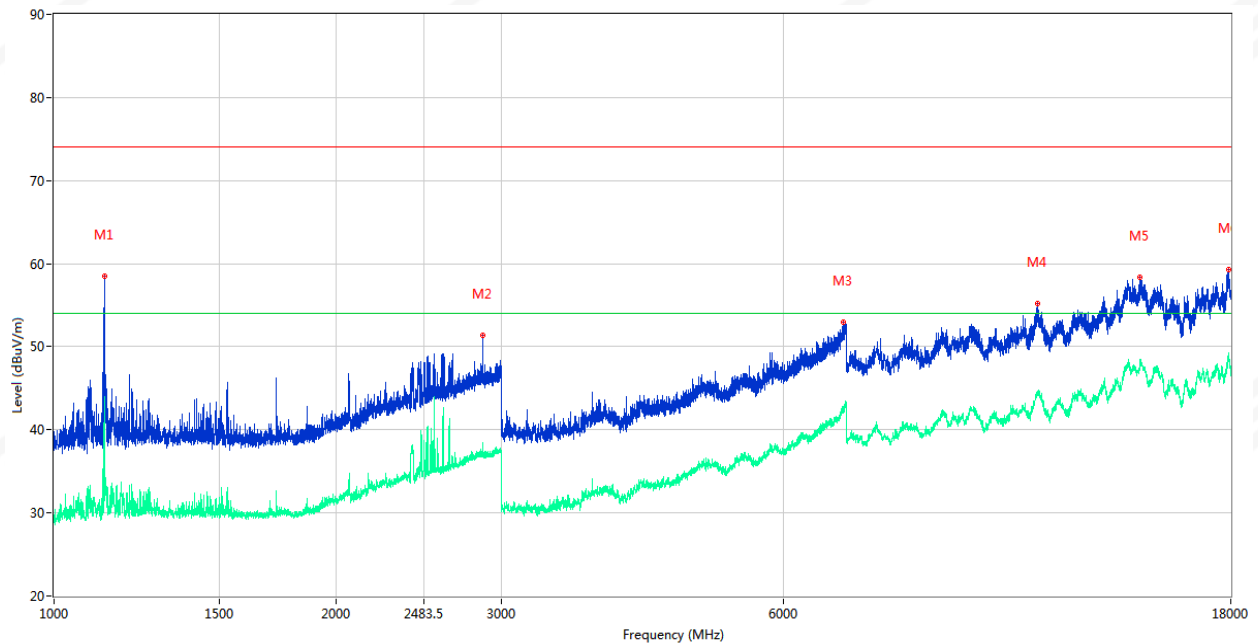
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1129.500	53.30	-1.71	74.0	-20.70	Peak	48.90	Vertical	Pass
1**	1129.500	40.22	-1.71	54.0	-13.78	AV	48.90	Vertical	Pass
2	2857.500	55.92	4.98	74.0	-18.08	Peak	146.80	Vertical	Pass
2**	2857.500	41.16	4.98	54.0	-12.84	AV	146.80	Vertical	Pass
3	6989.000	53.21	1.23	74.0	-20.79	Peak	7.00	Vertical	Pass
3**	6989.000	42.90	1.23	54.0	-11.10	AV	7.00	Vertical	Pass
4	12434.000	55.20	2.84	74.0	-18.80	Peak	19.90	Vertical	Pass
4**	12434.000	44.67	2.84	54.0	-9.33	AV	19.90	Vertical	Pass
5	14403.000	59.29	6.97	74.0	-14.71	Peak	107.70	Vertical	Pass
5**	14403.000	48.08	6.97	54.0	-5.92	AV	107.70	Vertical	Pass
6	17903.749	59.41	7.21	74.0	-14.59	Peak	326.10	Vertical	Pass
6**	17903.749	49.31	7.21	54.0	-4.69	AV	326.10	Vertical	Pass



18GHz-26GHz



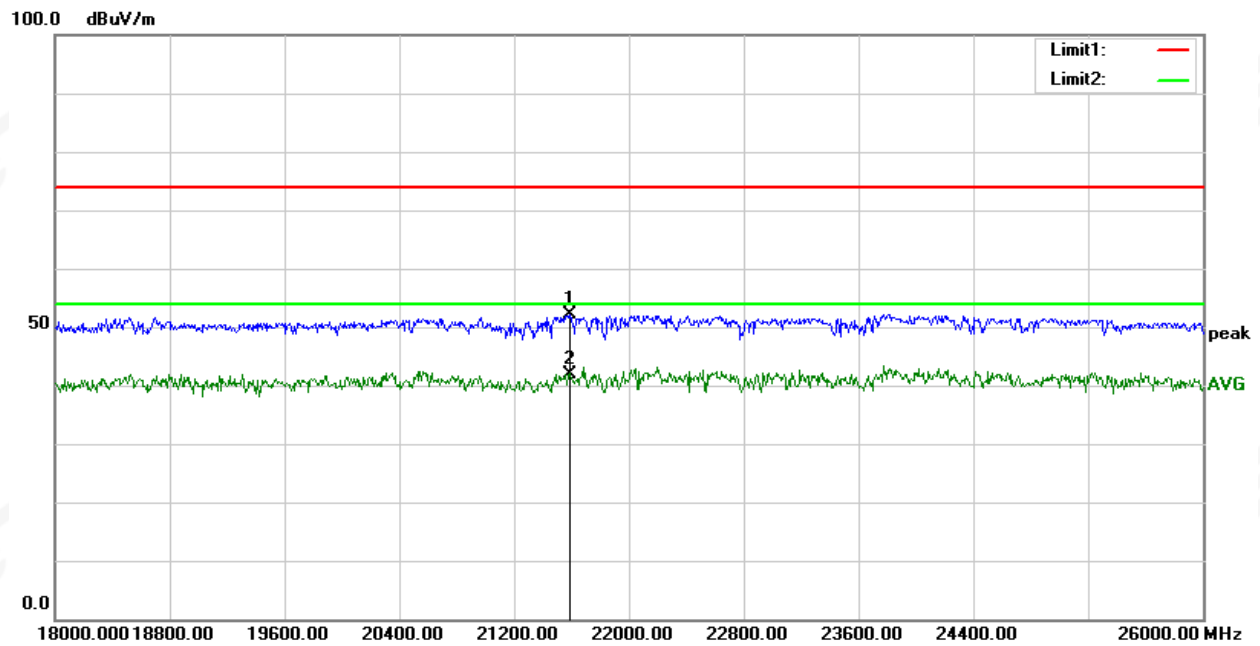
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	19960.000	50.31	1.78	52.09	74.00	-21.91	peak
2	19960.000	38.57	1.78	40.35	54.00	-13.65	AVG

High Channel
Horizontal
1GHz-18GHz

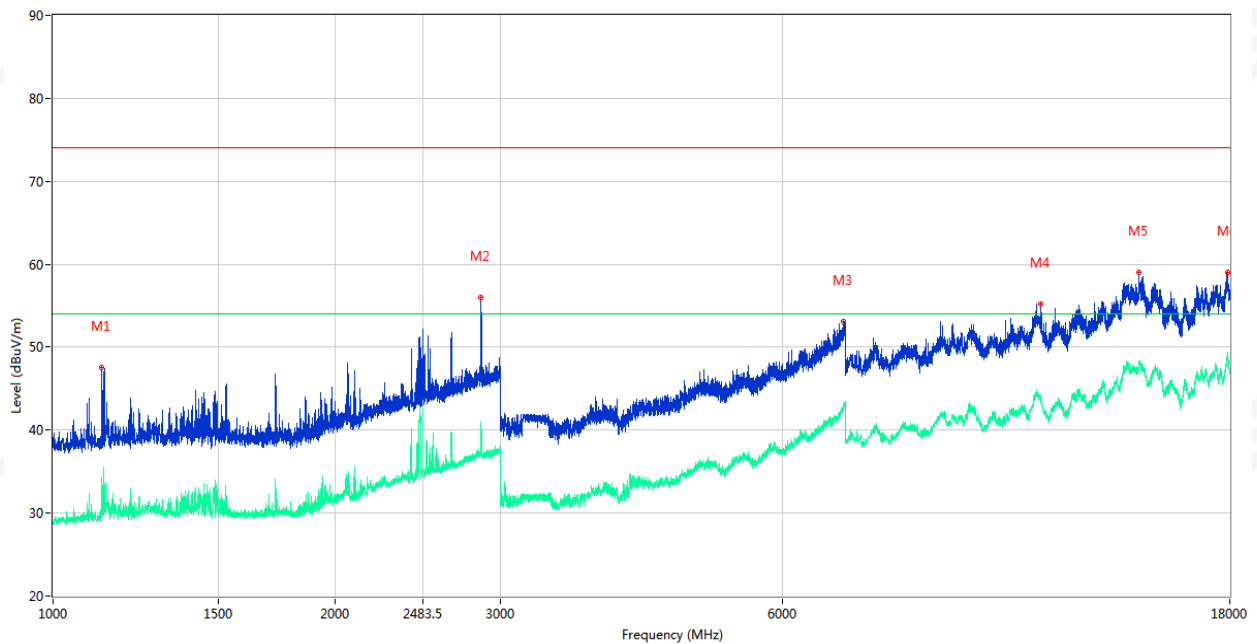
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1131.500	58.47	-1.71	74.0	-15.53	Peak	148.60	Horizontal	Pass
1**	1131.500	43.94	-1.71	54.0	-10.06	AV	148.60	Horizontal	Pass
2	2863.500	51.41	4.97	74.0	-22.59	Peak	123.70	Horizontal	Pass
2**	2863.500	38.42	4.97	54.0	-15.58	AV	123.70	Horizontal	Pass
3	6947.000	52.97	0.89	74.0	-21.03	Peak	355.10	Horizontal	Pass
3**	6947.000	42.39	0.89	54.0	-11.61	AV	355.10	Horizontal	Pass
4	11185.500	55.25	2.54	74.0	-18.75	Peak	352.10	Horizontal	Pass
4**	11185.500	44.51	2.54	54.0	-9.49	AV	352.10	Horizontal	Pass
5	14408.500	58.35	6.93	74.0	-15.65	Peak	60.90	Horizontal	Pass
5**	14408.500	48.00	6.93	54.0	-6.00	AV	60.90	Horizontal	Pass
6	17914.751	59.30	7.13	74.0	-14.70	Peak	262.10	Horizontal	Pass
6**	17914.751	48.79	7.13	54.0	-5.21	AV	262.10	Horizontal	Pass



18GHz-26GHz



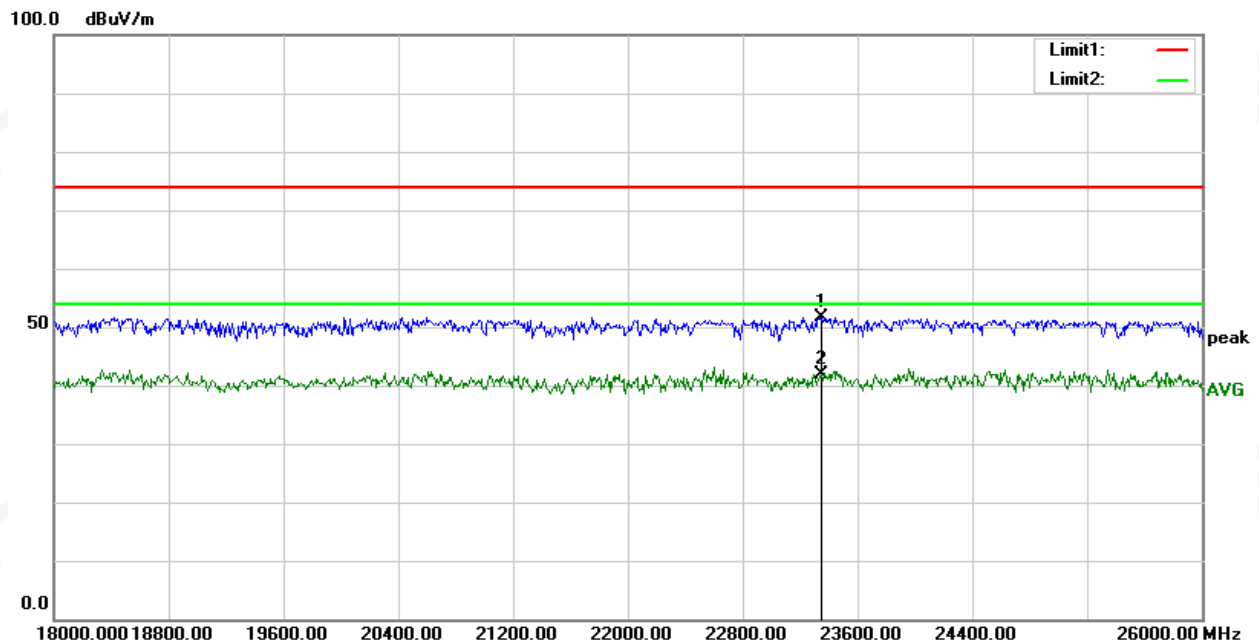
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	21584.000	49.23	3.01	52.24	74.00	-21.76	peak
2	21584.000	38.93	3.01	41.94	54.00	-12.06	AVG

Vertical
1GHz-18GHz

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1127.000	47.52	-1.72	74.0	-26.48	Peak	264.70	Vertical	Pass
1**	1127.000	34.20	-1.72	54.0	-19.80	AV	264.70	Vertical	Pass
2	2857.000	55.95	4.98	74.0	-18.05	Peak	145.30	Vertical	Pass
2**	2857.000	40.95	4.98	54.0	-13.05	AV	145.30	Vertical	Pass
3	6967.000	53.15	1.05	74.0	-20.85	Peak	360.70	Vertical	Pass
3**	6967.000	42.81	1.05	54.0	-11.19	AV	360.70	Vertical	Pass
4	11323.000	55.26	2.20	74.0	-18.74	Peak	251.40	Vertical	Pass
4**	11323.000	43.92	2.20	54.0	-10.08	AV	251.40	Vertical	Pass
5	14411.250	58.98	6.91	74.0	-15.02	Peak	179.20	Vertical	Pass
5**	14411.250	48.17	6.91	54.0	-5.83	AV	179.20	Vertical	Pass
6	17925.751	58.97	7.04	74.0	-15.03	Peak	84.80	Vertical	Pass
6**	17925.751	48.40	7.04	54.0	-5.60	AV	84.80	Vertical	Pass



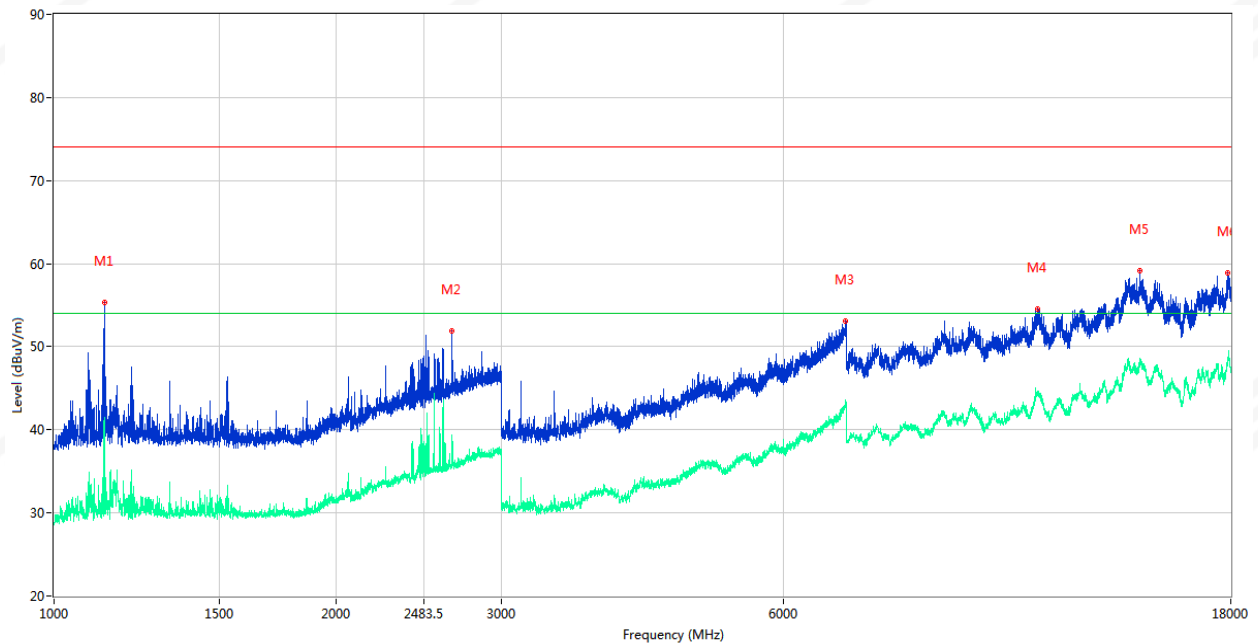
18GHz-26GHz



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	23352.000	47.77	3.98	51.75	74.00	-22.25	peak
2	23352.000	37.92	3.98	41.90	54.00	-12.10	AVG



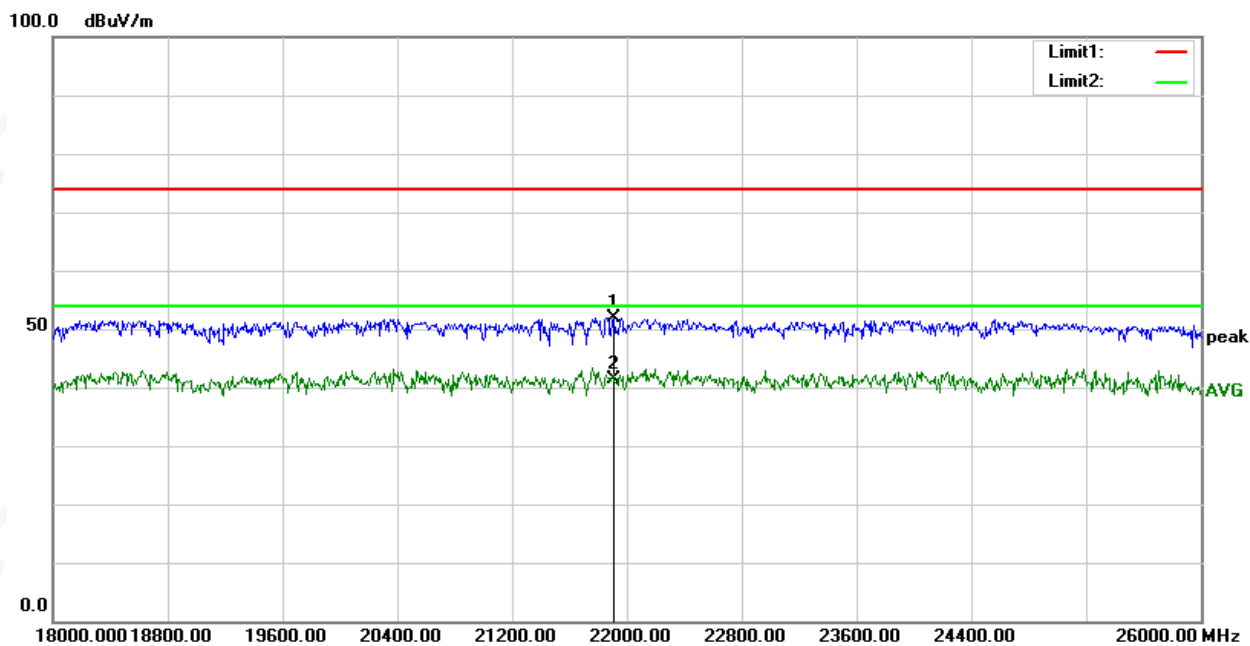
2M PHY
Low Channel
Horizontal



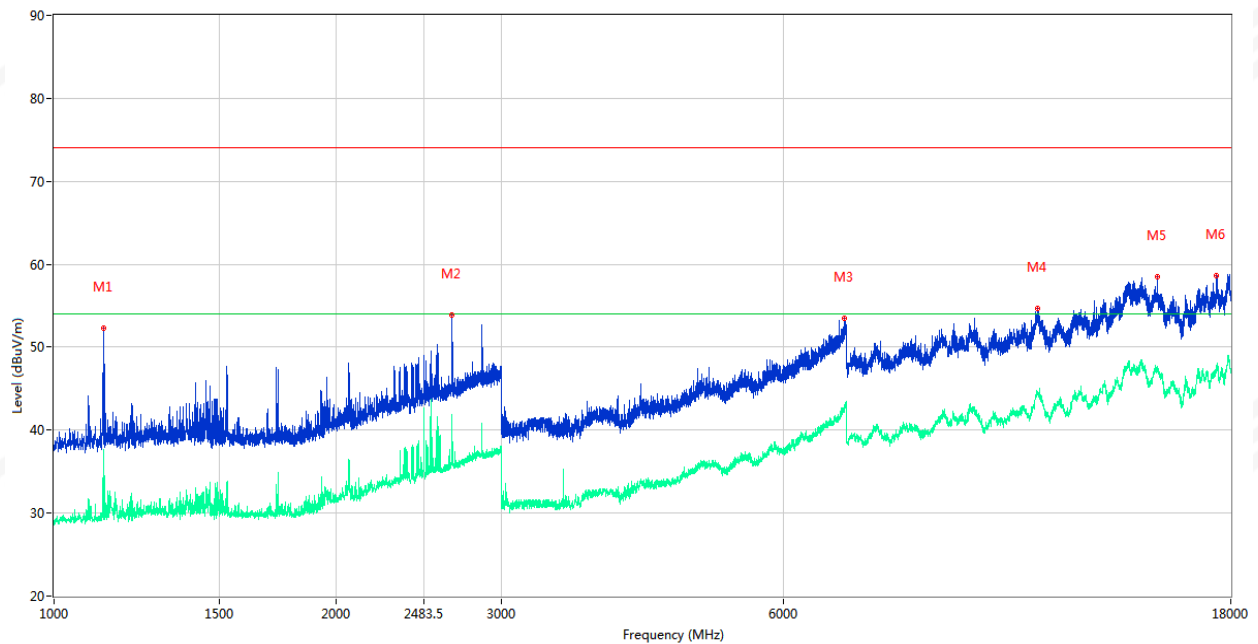
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1132.000	55.31	-1.71	74.0	-18.69	Peak	154.20	Horizontal	Pass
1**	1132.000	41.44	-1.71	54.0	-12.56	AV	154.20	Horizontal	Pass
2	2656.500	51.85	3.98	74.0	-22.15	Peak	141.20	Horizontal	Pass
2**	2656.500	39.42	3.98	54.0	-14.58	AV	141.20	Horizontal	Pass
3	6993.000	53.04	1.26	74.0	-20.96	Peak	14.30	Horizontal	Pass
3**	6993.000	43.23	1.26	54.0	-10.77	AV	14.30	Horizontal	Pass
4	11191.000	54.53	2.57	74.0	-19.47	Peak	324.00	Horizontal	Pass
4**	11191.000	44.50	2.57	54.0	-9.50	AV	324.00	Horizontal	Pass
5	14411.250	59.14	6.91	74.0	-14.86	Peak	0.60	Horizontal	Pass
5**	14411.250	48.65	6.91	54.0	-5.35	AV	0.60	Horizontal	Pass
6	17876.251	58.90	7.04	74.0	-15.10	Peak	53.30	Horizontal	Pass
6**	17876.251	48.43	7.04	54.0	-5.57	AV	53.30	Horizontal	Pass



18GHz-26GHz



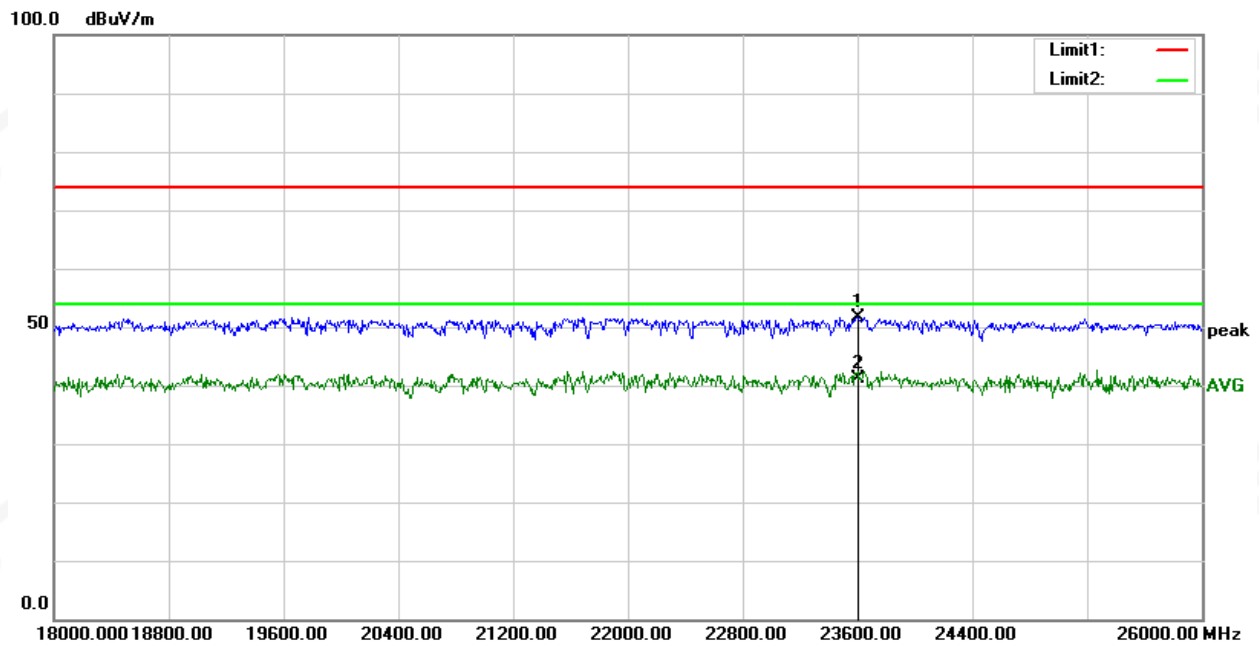
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/ m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	21912.000	48.63	3.32	51.95	74.00	-22.05	peak
2	21912.000	37.98	3.32	41.30	54.00	-12.70	AVG

Vertical
1GHz-18GHz

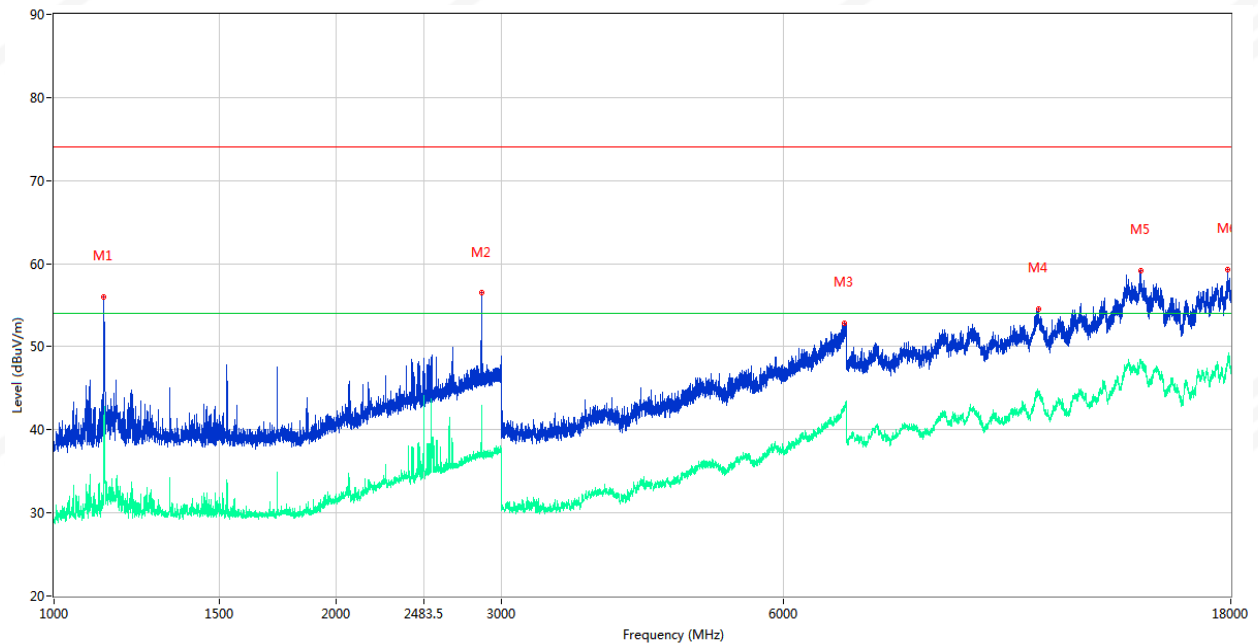
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1129.500	52.32	-1.71	74.0	-21.68	Peak	40.00	Vertical	Pass
1**	1129.500	36.33	-1.71	54.0	-17.67	AV	40.00	Vertical	Pass
2	2656.500	53.84	3.98	74.0	-20.16	Peak	152.70	Vertical	Pass
2**	2656.500	41.82	3.98	54.0	-12.18	AV	152.70	Vertical	Pass
3	6973.000	53.50	1.10	74.0	-20.50	Peak	136.80	Vertical	Pass
3**	6973.000	42.98	1.10	54.0	-11.02	AV	136.80	Vertical	Pass
4	11207.500	54.70	2.59	74.0	-19.30	Peak	50.40	Vertical	Pass
4**	11207.500	44.54	2.59	54.0	-9.46	AV	50.40	Vertical	Pass
5	15016.250	58.50	5.39	74.0	-15.50	Peak	98.80	Vertical	Pass
5**	15016.250	47.22	5.39	54.0	-6.78	AV	98.80	Vertical	Pass
6	17375.750	58.59	6.78	74.0	-15.41	Peak	179.50	Vertical	Pass
6**	17375.750	47.52	6.78	54.0	-6.48	AV	179.50	Vertical	Pass



18GHz-26GHz



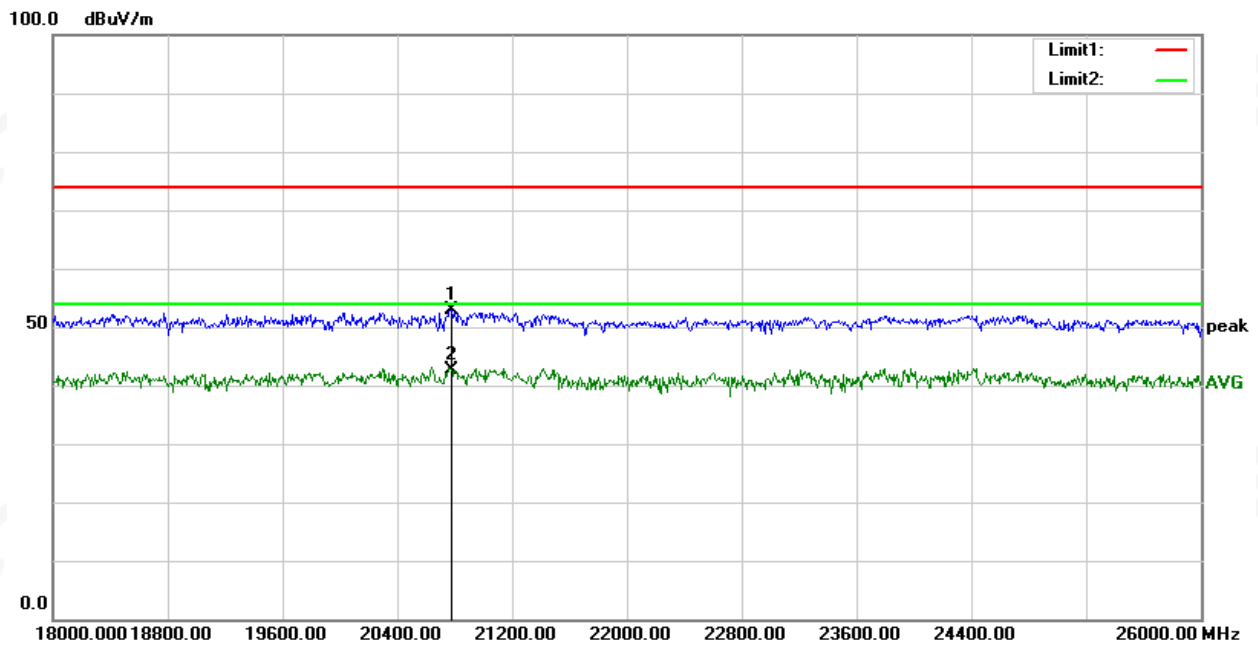
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	23600.000	47.52	4.23	51.75	74.00	-22.25	peak
2	23600.000	36.84	4.23	41.07	54.00	-12.93	AVG

Mid Channel
Horizontal
1GHz-18GHz

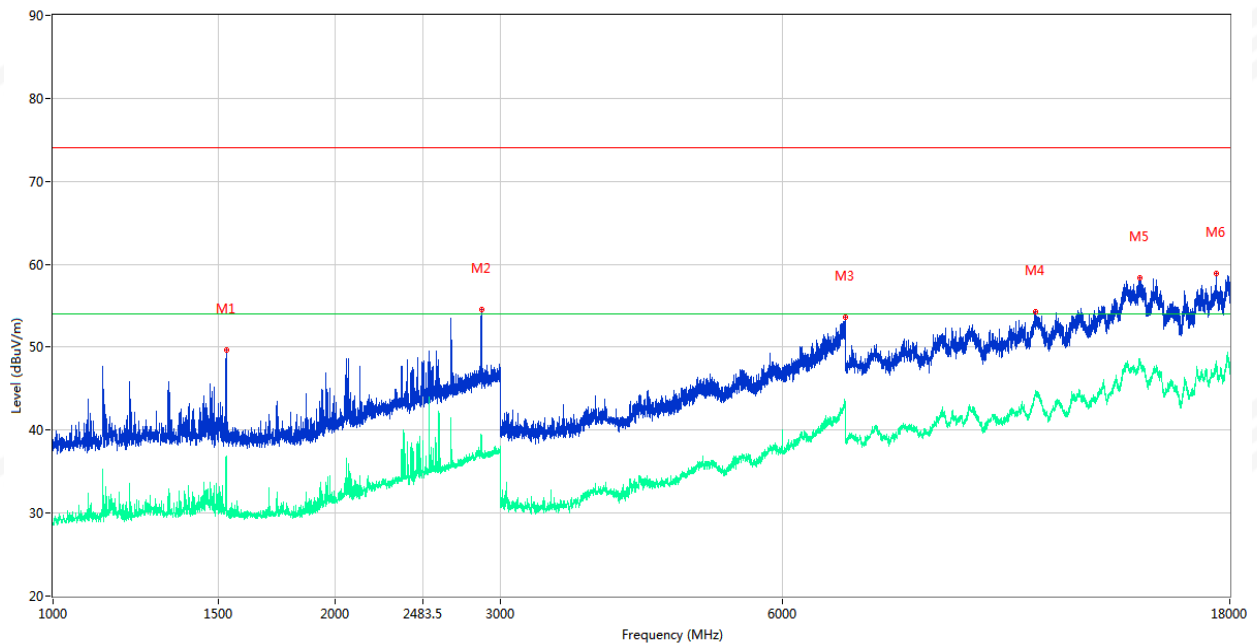
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1129.000	55.95	-1.71	74.0	-18.05	Peak	152.40	Horizontal	Pass
1**	1129.000	41.15	-1.71	54.0	-12.85	AV	152.40	Horizontal	Pass
2	2857.000	56.46	4.98	74.0	-17.54	Peak	121.50	Horizontal	Pass
2**	2857.000	42.93	4.98	54.0	-11.07	AV	121.50	Horizontal	Pass
3	6960.000	52.87	1.00	74.0	-21.13	Peak	258.70	Horizontal	Pass
3**	6960.000	42.48	1.00	54.0	-11.52	AV	258.70	Horizontal	Pass
4	11232.250	54.59	2.51	74.0	-19.41	Peak	90.20	Horizontal	Pass
4**	11232.250	44.51	2.51	54.0	-9.49	AV	90.20	Horizontal	Pass
5	14433.250	59.21	6.75	74.0	-14.79	Peak	32.50	Horizontal	Pass
5**	14433.250	48.23	6.75	54.0	-5.77	AV	32.50	Horizontal	Pass
6	17873.500	59.32	7.01	74.0	-14.68	Peak	262.10	Horizontal	Pass
6**	17873.500	48.44	7.01	54.0	-5.56	AV	262.10	Horizontal	Pass



18GHz-26GHz



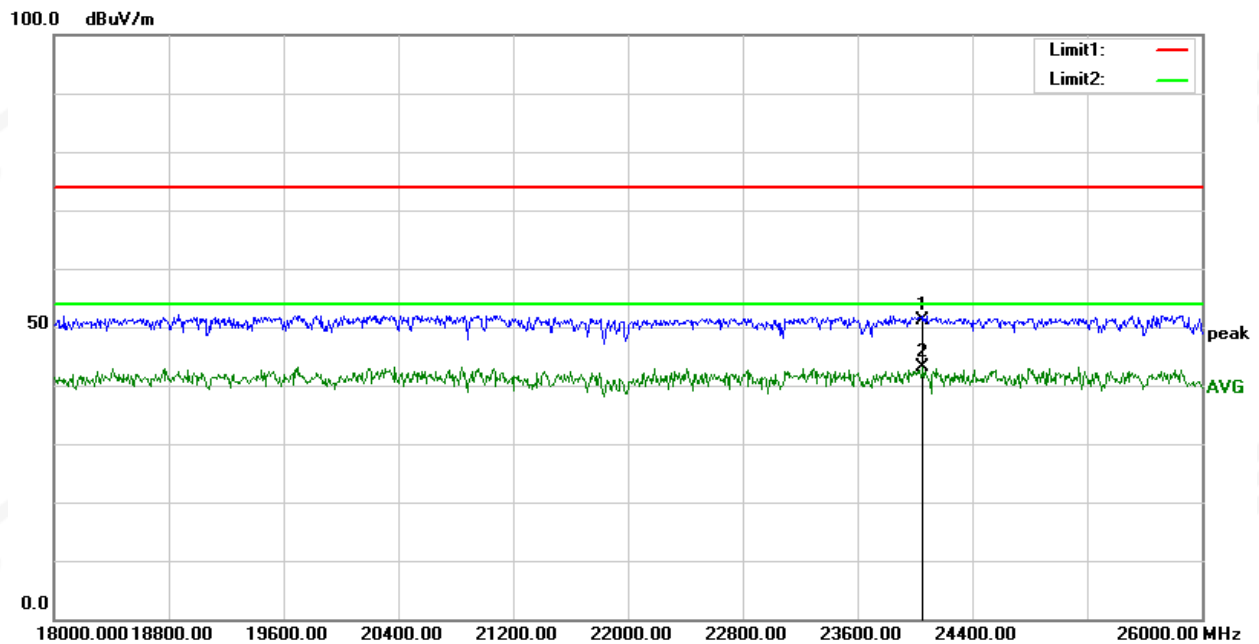
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	20776.000	50.51	2.47	52.98	74.00	-21.02	peak
2	20776.000	40.23	2.47	42.70	54.00	-11.30	AVG

Vertical
1GHz-18GHz

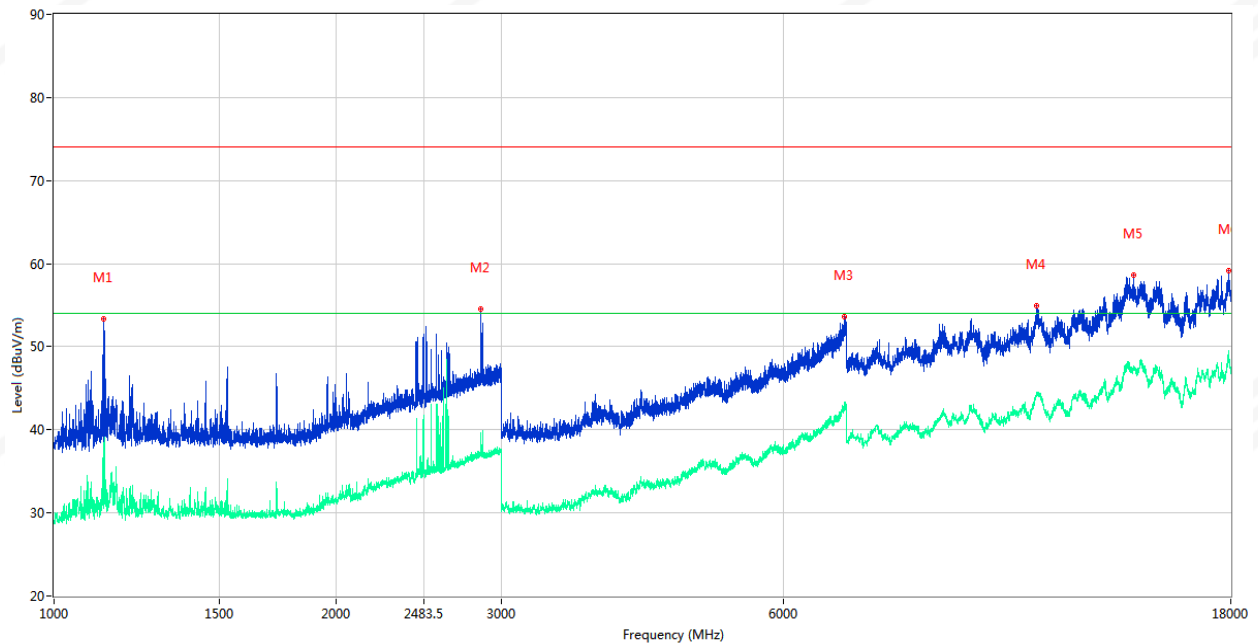
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1532.500	49.71	-1.08	74.0	-24.29	Peak	76.50	Vertical	Pass
1**	1532.500	36.93	-1.08	54.0	-17.07	AV	76.50	Vertical	Pass
2	2863.000	54.52	4.97	74.0	-19.48	Peak	238.30	Vertical	Pass
2**	2863.000	39.43	4.97	54.0	-14.57	AV	238.30	Vertical	Pass
3	6995.000	53.60	1.28	74.0	-20.40	Peak	0.40	Vertical	Pass
3**	6995.000	42.93	1.28	54.0	-11.07	AV	0.40	Vertical	Pass
4	11158.000	54.25	2.39	74.0	-19.75	Peak	106.30	Vertical	Pass
4**	11158.000	44.36	2.39	54.0	-9.64	AV	106.30	Vertical	Pass
5	14422.250	58.42	6.83	74.0	-15.58	Peak	247.20	Vertical	Pass
5**	14422.250	48.66	6.83	54.0	-5.34	AV	247.20	Vertical	Pass
6	17400.500	58.90	6.97	74.0	-15.10	Peak	111.10	Vertical	Pass
6**	17400.500	48.10	6.97	54.0	-5.90	AV	111.10	Vertical	Pass



18GHz-26GHz



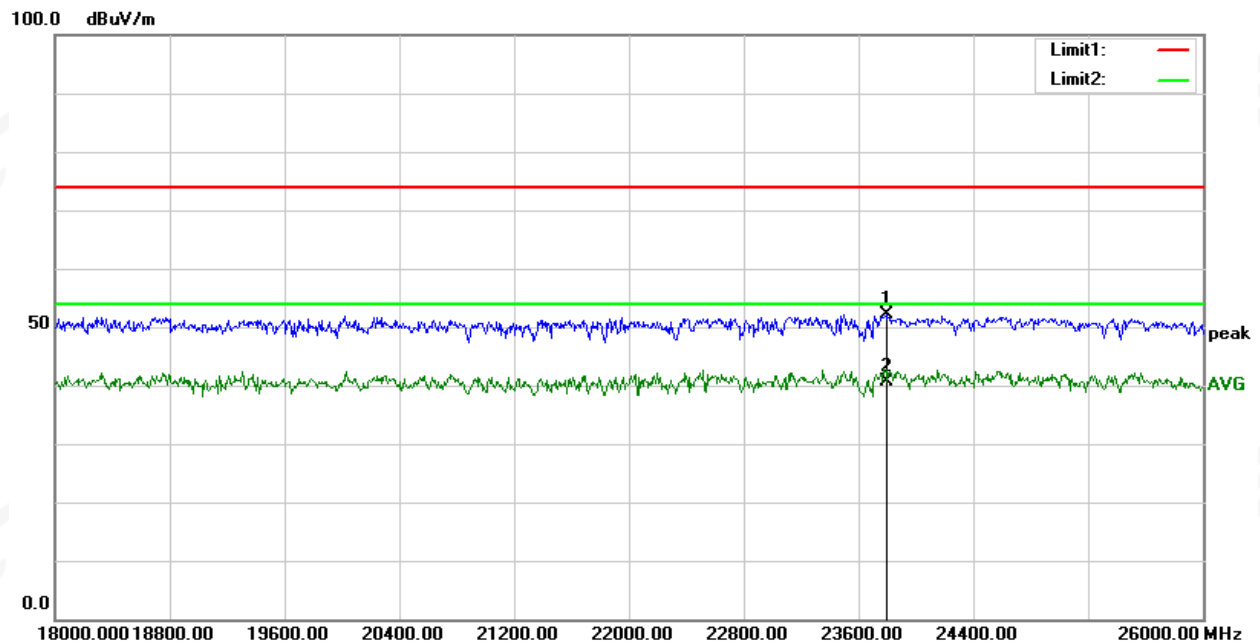
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	24056.000	46.55	4.64	51.19	74.00	-22.81	peak
2	24056.000	38.37	4.64	43.01	54.00	-10.99	AVG

High Channel
Horizontal
1GHz-18GHz

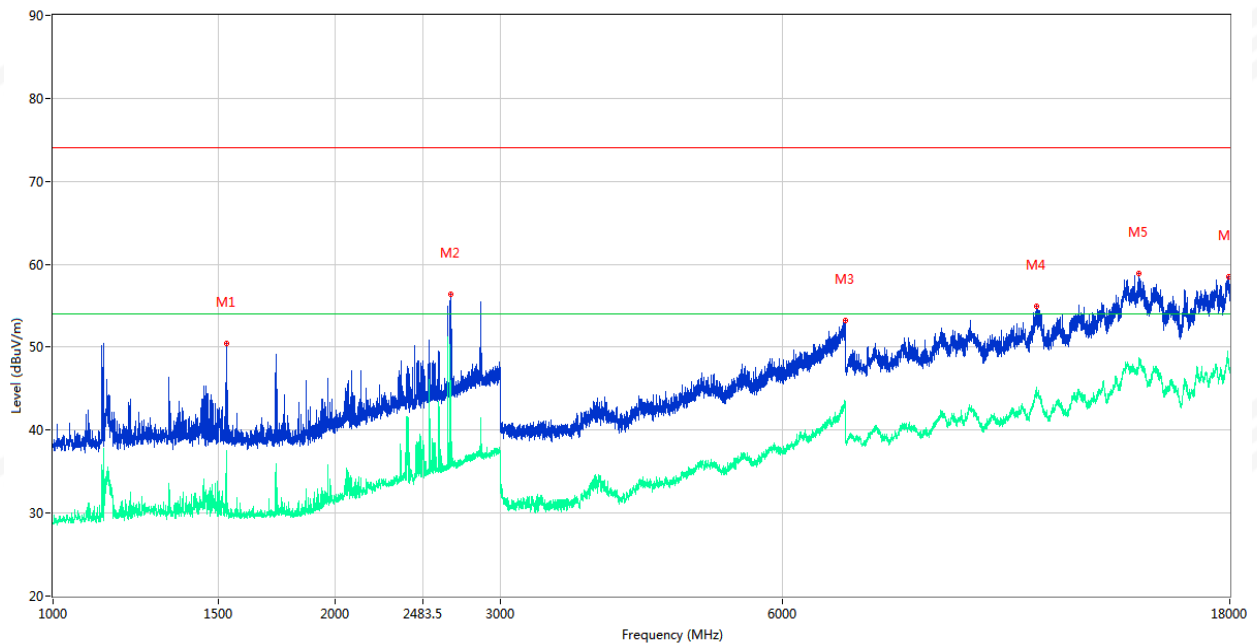
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1129.000	53.34	-1.71	74.0	-20.66	Peak	63.20	Horizontal	Pass
1**	1129.000	38.48	-1.71	54.0	-15.52	AV	63.20	Horizontal	Pass
2	2853.500	54.49	4.99	74.0	-19.51	Peak	113.40	Horizontal	Pass
2**	2853.500	39.60	4.99	54.0	-14.40	AV	113.40	Horizontal	Pass
3	6968.000	53.57	1.06	74.0	-20.43	Peak	339.50	Horizontal	Pass
3**	6968.000	43.06	1.06	54.0	-10.94	AV	339.50	Horizontal	Pass
4	11177.250	54.97	2.50	74.0	-19.03	Peak	277.60	Horizontal	Pass
4**	11177.250	44.32	2.50	54.0	-9.68	AV	277.60	Horizontal	Pass
5	14166.500	58.57	6.92	74.0	-15.43	Peak	114.80	Horizontal	Pass
5**	14166.500	47.38	6.92	54.0	-6.62	AV	114.80	Horizontal	Pass
6	17909.250	59.20	7.17	74.0	-14.80	Peak	211.40	Horizontal	Pass
6**	17909.250	49.09	7.17	54.0	-4.91	AV	211.40	Horizontal	Pass



18GHz-26GHz



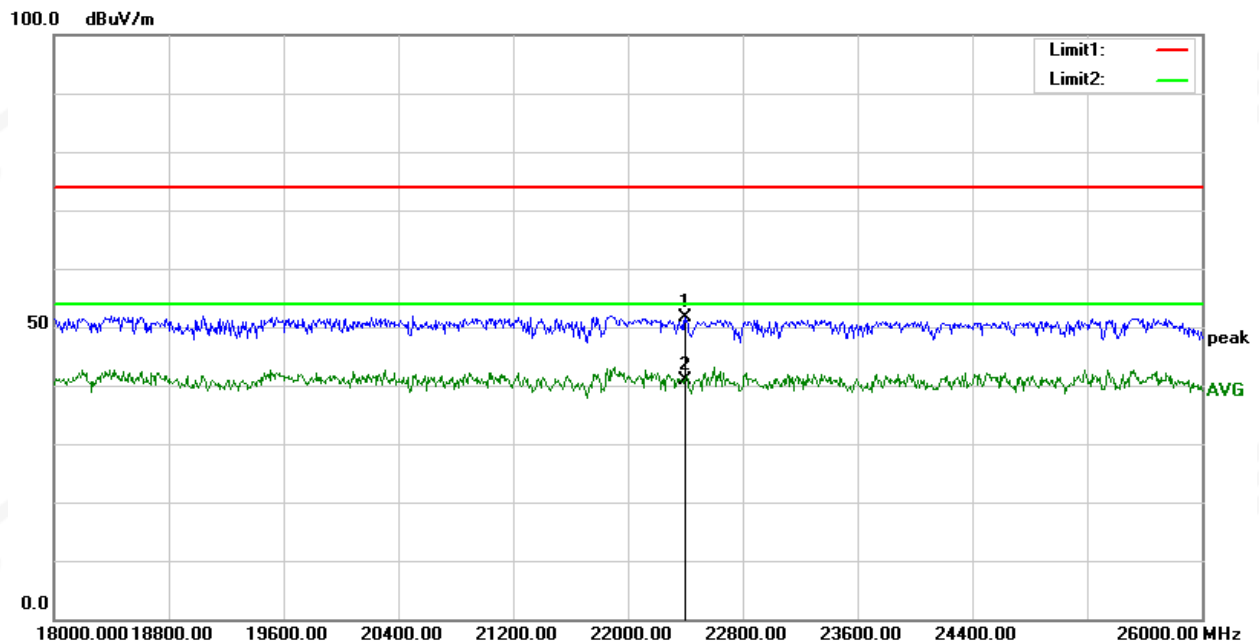
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	23800.000	47.80	4.43	52.23	74.00	-21.77	peak
2	23800.000	36.21	4.43	40.64	54.00	-13.36	AVG

Vertical
1GHz-18GHz

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1532.500	50.41	-1.08	74.0	-23.59	Peak	78.30	Vertical	Pass
1**	1532.500	37.59	-1.08	54.0	-16.41	AV	78.30	Vertical	Pass
2	2653.500	56.37	3.98	74.0	-17.63	Peak	360.00	Vertical	Pass
2**	2653.500	42.88	3.98	54.0	-11.12	AV	360.00	Vertical	Pass
3	7000.000	53.24	1.32	74.0	-20.76	Peak	311.00	Vertical	Pass
3**	7000.000	42.96	1.32	54.0	-11.04	AV	311.00	Vertical	Pass
4	11188.250	54.89	2.56	74.0	-19.11	Peak	200.80	Vertical	Pass
4**	11188.250	44.19	2.56	54.0	-9.81	AV	200.80	Vertical	Pass
5	14411.250	58.87	6.91	74.0	-15.13	Peak	142.00	Vertical	Pass
5**	14411.250	48.43	6.91	54.0	-5.57	AV	142.00	Vertical	Pass
6	17936.751	58.53	6.96	74.0	-15.47	Peak	5.70	Vertical	Pass
6**	17936.751	48.17	6.96	54.0	-5.83	AV	5.70	Vertical	Pass



18GHz-26GHz



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	22400.000	47.75	3.82	51.57	74.00	-22.43	peak
2	22400.000	37.03	3.82	40.85	54.00	-13.15	AVG

Note:

- 1) Factor = Antenna Factor + Cable Loss – Pre-amplifier.
Emission Level = Reading + Factor.
- 2) The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.



4. ANTENNA REQUIREMENT

4.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

4.2 EUT ANTENNA

The EUT antenna is PCB Antenna. It comply with the standard requirement.



APPENDIX 1- EUT TEST PHOTO

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

*****END OF THE REPORT*****