Radio Test Report

Report No: STS2404114W02

Issued for

Litum bilgi teknolojileri san. Ve dis tic. A.S

Sevket Ozcelik sok. No29 Alsancak izmir Turkey

Product Name:	430 Collision Warning System
Brand Name:	Litum
Model Name:	430
Series Model(s):	4300000001, 4300000002, 4300000003
FCC ID:	2AW7W430
IC:	26820-430
Test Standard:	Title 47 of the CFR, Part 15. Subpart F RSS 220 Issue 1, amendment 1 July 2018

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 RESULT

Applicant's Name .....:	Litum bilgi teknolojileri san. Ve dis tic. A.S
Address.....:	Sevket Ozcelik sok. No29 Alsancak izmir Turkey
Manufacture's Name .....:	Litum bilgi teknolojileri san. Ve dis tic. A.S
Address.....:	Sevket Ozcelik sok. No29 Alsancak izmir Turkey

Product Description

Product Name .....:	430 Collision Warning System
Brand Name .....:	Litum
Model Name.....:	430
Series Model(s) .....:	4300000001, 4300000002, 4300000003
Test Standards.....:	Title 47 of the CFR, Part 15. Subpart F RSS 220 Issue 1, amendment 1 July 2018 RSS-Gen Issue 5, Amendment 1, March 2019
Test Procedure .....:	ANSI C63.10-2020

This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the FCC/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.....:	22 Feb. 2022
Date of performance of tests ..:	22 Feb. 2022 ~12 June 2024
Date of Issue.....:	12 June 2024
Test Result .....:	**Pass**

Testing Engineer : Aaron Bu

(Aaron Bu)

Technical Manager : Chris Chen

(Chris Chen)

Authorized Signatory : Bovey Yang

(Bovey Yang)

SHENZHEN STS TEST SERVICES CO., LTD. TESTING APPROVAL

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Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	03 Mar. 2022	STS2201129W04	ALL	Initial Issue
00	12 June 2024	STS2404114W02	ALL	Add two UWB frequency points: 3494.4MHz and 4492.8MHz

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part 15. Subpart F RSS 220 Issue 1, amendment 1 July 2018			
Standard Section	Test Item	Judgment	Remark
15.207 RSS-Gen (8.8)	AC Power Conducted Emission	N/A	
15.203 RSS-Gen (6.8)	Antenna Requirement	Pass	
15.209 15.517(c) RSS-220 (3.4) RSS-220 (5.2.1(d))	Radiated Spurious Emission	Pass	
15.209 15.517(d) RSS-220 (5.2.1(e))	Radiated Spurious Emission in GPS Band	Pass	
15.517(e) RSS-220 (5.2.1(g))	Peak Emissions within a 50MHz Bandwidth	Pass	
15.517(b) RSS-220 (2)	UWB Bandwidth	Pass	
RSS-Gen 6.7	99% Bandwidth	Pass	

NOTE:

(1) ‘N/A’ denotes test is not applicable in this Test Report.

(2) All tests are according to ANSI C63.10-2020.

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

IC CAB ID: CN0086

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement **y** ± **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	±0.755dB
2	Unwanted Emissions, conducted	±2.874dB
3	All emissions, radiated 9K-30MHz	±3.80dB
4	All emissions, radiated 30M-1GHz	±4.18dB
5	All emissions, radiated 1G-6GHz	±4.90dB
6	All emissions, radiated>6G	±5.24dB
7	Conducted Emission (9KHz-150KHz)	±2.19dB
8	Conducted Emission (150KHz-30MHz)	±2.53dB
9	Occupied Channel Bandwidth	±3.5%
10	Power Spectral Density, conducted	±1.245dB
11	Duty Cycle	±3.2%

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name/PMN	430 Collision Warning System
Trade Name	Litum
Model Name/HVIN	430
Series Model(s)/HVIN	4300000001, 4300000002, 4300000003
Model Difference	Only difference in model name.
Product Description	430 Collision Warning System belongs to FCC Part15.517 indoor UWB systems. Operation Frequency: 6489.6MHz, 3494.4MHz,4492.8MHz Modulation Type: BPM with BPSK Antenna Designation: Please refer to the Note 3. Antenna Gain(Peak): Ceramic antenna Based on the application, features, or specification exhibited in User Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User Manual.
Channel List	Please refer to the Note 2.
Rating	Input: 9-30V
Hardware version number	AFA01-01-02
Software version number/FVIN	1.15.15.0
Serial Numbers	4300000003
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.

Test channel	Frequency(MHz)	Test channel	Frequency(MHz)
1	3494.4	2	4492.8
3	6489.6	-	-

3. Table for Filed Antenna

Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	Litum	430	Ceramic	N/A	3.3	Antenna

Note: The antenna information refer the manufacturer provide report, applicable only to the tested sample identified in the report.

2.2 DESCRIPTION OF THE TEST MODES

For Radiated spurious emissions

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

Pretest Mode	Description	Modulation
Mode 1	TX	BPM with BPSK

Note:

(1) All above mode have been measurement, only worst data was reported.

2.3 TEST SOFTWARE AND POWER LEVEL

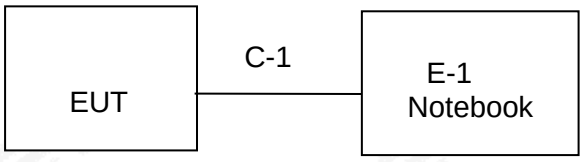
During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

RF Function	Type	Mode Or Modulation type	Ant Gain(dBi)	Power Class	Software For Testing
UWB	6849.6MHz	BPM with BPSK	3.3	8	Tera Term
	3494.4MHz			Default	The EUT has signal transmission when it is powered on
	4492.8MHz				

2.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters.

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.

Necessary accessories

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note
N/A	N/A	N/A	N/A	N/A	N/A

Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note
E-1	Notebook	LENOVO	Think Pad E470	N/A	N/A
C-1	USB Cable	N/A	N/A	150cm	NO

Note:

(1) The support equipment was authorized by Declaration of Confirmation.

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

2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

RF Radiation Test Equipment					
Kind of Equipment	**Manufacturer**	**Type No.**	**Serial No.**	**Last Calibration**	**Calibrated Until**
Temperature & Humidity	SW-108	SuWei	N/A	2024.03.15	2025.03.14
Pre-Amplifier(0.1M-3GHz)	EM	EM330	060665	2024.02.23	2025.02.22
Pre-Amplifier(1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2023.09.26	2024.09.25
Pre-Amplifier(18G-40GHz)	SKET	LNPA_1840-50	SK2018101801	2024.02.23	2025.02.22
Active loop Antenna	ZHINAN	ZN30900C	16035	2023.02.28	2025.02.27
Bilog Antenna	TESEQ	CBL6111D	34678	2022.09.30	2024.09.29
Horn Antenna	SCHWARZBECK	BBHA 9120D	02014	2023.09.24	2025.09.23
Horn Antenna	A-INFOMW	LB-180400-KF	J211020657	2023.10.10	2025.10.09
Positioning Controller	MF	MF-7802	MF-780208587	N/A	N/A
Signal Analyzer	R&S	FSV 40-N	101823	2023.09.26	2024.09.25
Switch Control Box	N/A	N/A	N/A	N/A	N/A
Filter Box	BALUN Technology	SU319E	BL-SZ1530051	N/A	N/A
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	HONGSHENGFENG	DPS-305AF	17064939	2023.09.26	2024.09.25
Test SW	EZ-EMC	Ver.STSLAB-03A1 RE			
RF Connected Test					
Kind of Equipment	**Manufacturer**	**Type No.**	**Serial No.**	**Last calibration**	**Calibrated until**
Signal Analyzer	Agilent	N9020A	MY51510623	2024.02.23	2025.02.22
Power Sensor	Keysight	U2021XA	MY55520005	2023.09.26	2024.09.25
Temperature & Humidity	SW-108	SuWei	N/A	2024.03.15	2025.03.14
Test SW	MW	MTS 8310_2.0.0.0			

3. EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

Operating frequency band. In case the emission fall within the restricted band specified on Part 15.207&RSS-Gen (8.8) limit in the table below has to be followed.

FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Note:

(1) The tighter limit applies at the band edges.

(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

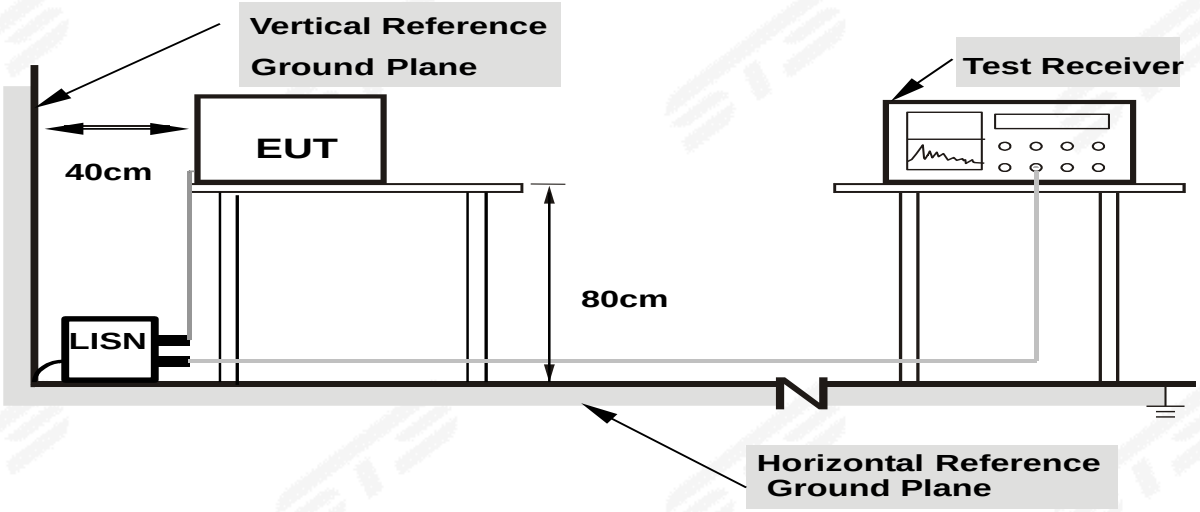
The following table is the setting of the receiver

Receiver Parameters	**Setting**
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

3.1.2 TEST PROCEDURE

a. The EUT was 0.8 meters from the horizontal ground plane and 0.4 meters from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
d. LISN at least 80 cm from nearest part of EUT chassis.
e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 TEST SETUP



Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.1.4 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

3.1.5 TEST RESULT

Temperature:	N/A	Relative Humidity:	N/A
Test Voltage:	N/A	Phase:	L/N
Test Mode:	N/A		

Note: EUT is only power by DC Power, So it is not applicable for this test.

3.2 RADIATED EMISSION MEASUREMENT (FOR 15.517(c)&RSS 220 5.2.1(d))

3.2.1 RADIATED EMISSION LIMITS

The radiated emissions at or below 960MHz from a device operating under the provisions of this section shall not exceed the emission levels in Section 15.209&RSS 220(3.4).

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

Note: 1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).

For FCC:

The radiated emissions above 960MHz from a device operating under the provisions of this section shall not exceed the following average limits when measured using a resolution bandwidth of 1MHz:

Frequency of Emission (MHz)	**EIRP (dBm)**	**Field Strength (dBuV/m@3m)**	**Field Strength (dBuV/m@1m)**
960~1610	-75.3	19.9	29.44
1610~1990	-53.3	41.9	51.44
1990~3100	-51.3	43.9	53.44
3100~10600	-41.3	53.9	63.44
Above 10600	-51.3	43.9	53.44

Notes: 1. Transfer rules follow 15.521(g),15.31(f)(1).
2. 15.521(c) Emissions from digital circuitry used to enable the operation of the UWB transmitter shall comply with the limits in Section 15.209 of this chapter, rather than the limits specified in this subpart.
3. E(dBuV/m)@3m = P(dBm EIRP) + 95.2;
E(dBuV/m)@1m= E(dBuV/m)@3m+20*log(3/1)

For IC:
The radiated emissions above 960MHz from a device operating under the provisions of this section shall not exceed the following average limits when measured using a resolution bandwidth of 1MHz:

Frequency of Emission (MHz)	EIRP (dBm)	Field Strength (dBuV/m@3m)	Field Strength (dBuV/m@1m)
960~1610	-75.3	19.9	29.44
1610~4750	-70.0	25.2	34.74
4750~10600	-41.3	53.9	63.44
Above 10600	-51.3	43.9	53.44

Notes: 1. Transfer rules follow section 2 of the RSS 220 Annex.
2. The Emissions from digital circuitry used to enable the operation of the UWB transmitter shall comply with the limits in Section RSS 220(3.4) of this chapter, rather than the limits specified in this subpart.
3. E(dBuV/m)@3m = P(dBm EIRP) + 95.2;
E(dBuV/m)@1m= E(dBuV/m)@3m+20*log(3/1)

Spectrum Parameter	Setting
Detector	RMS
Attenuation	Auto
Start Frequency	960 MHz
Stop Frequency	10th of the highest fundamental frequency or to 40 GHz, whichever is lower
RB	1MHz
VB	3MHz
Sweep Point	1001
SweepTime	1s

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV
	90kHz~110kHz / RB 200Hz for QP
	110kHz~490kHz / RB 200Hz for PK & AV
	490kHz~30MHz / RB 9kHz for QP
	30MHz~960MHz / RB 120kHz for QP

3.2.2 TEST PROCEDURE

a. The measuring distance of 1m shall be used for measurements. The EUT was placed on the top of arotating table 0.8meter (above 1GHz is 1.5 m) above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The height of the test antenna shall vary between 1m to 4m.Both horizontal and vertical polarization Of the antenna are set to make the measurement.

c. The initial step in collecting radiated emission data is a receive peak detector mode. Pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.

d. All readings are peak unless otherwise stated QP in column of Note. Peak denoted that the Peak reading compliance with the QP limits and then QP Mode measurement didn't perform (Below 960MHz)

e. All readings are RMS mode value , for each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading . (Above 960MHz)

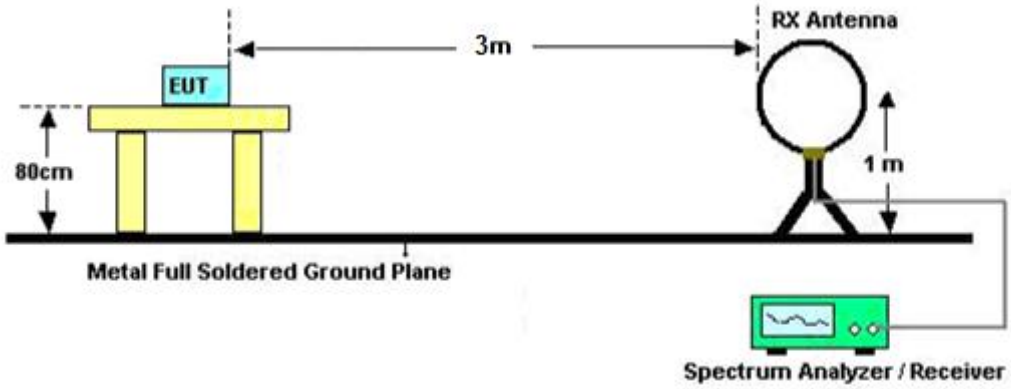
f. For the actual test configuration, please refer to the related Item –EUT Test Photos.
Note: Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

3.2.3 DEVIATION FROM TEST STANDARD

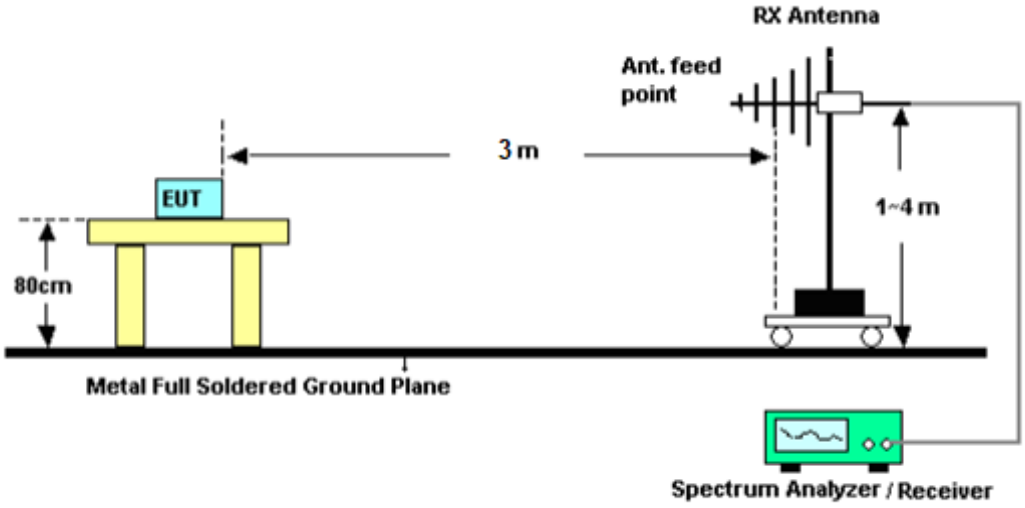
No deviation

3.2.4 TEST SETUP

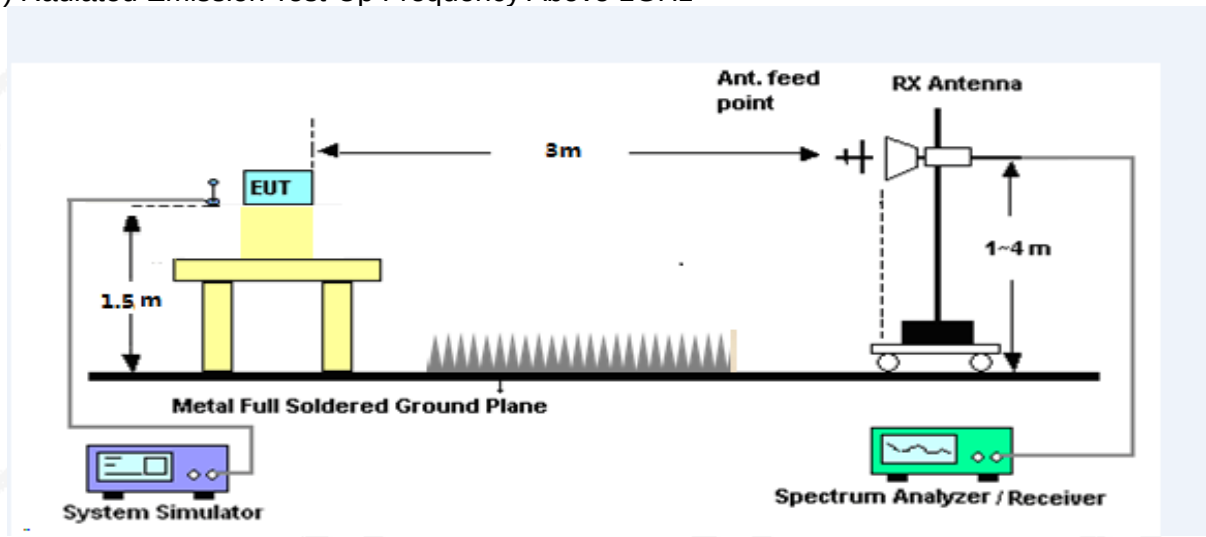
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



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



3.2.5 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:
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

3.2.6 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

3.2.7 TEST RESULTS

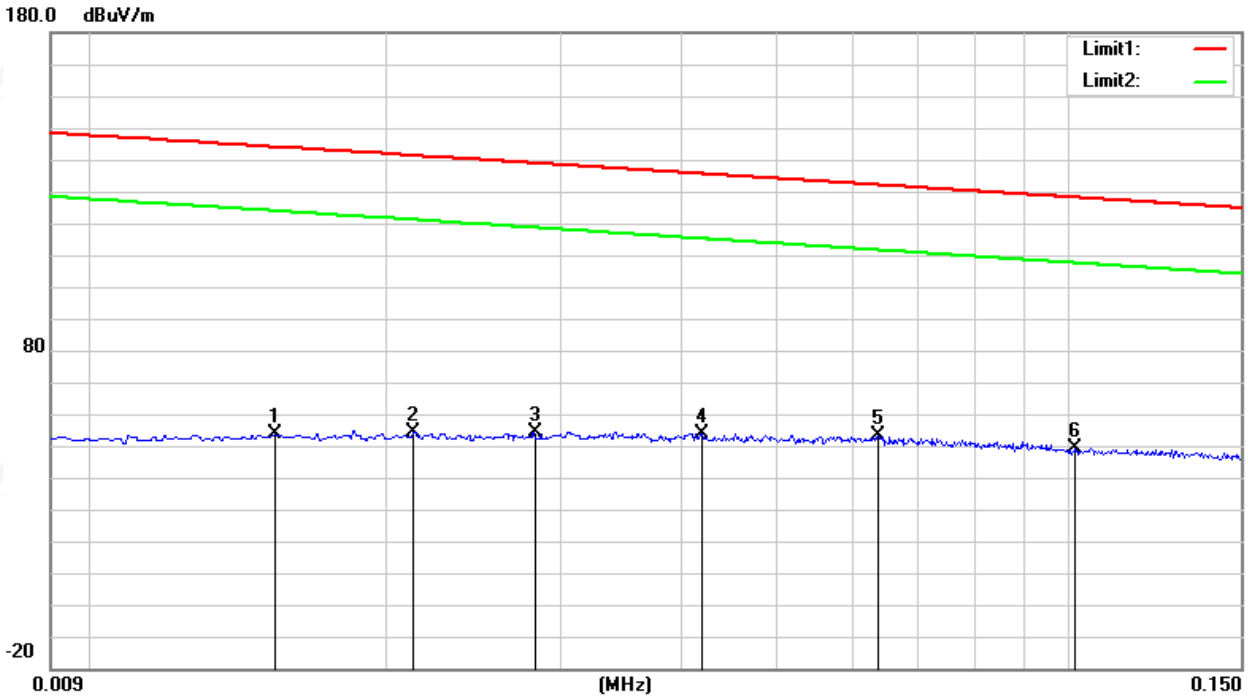
Below 30MHz

Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Test Mode:	CH 1(9KHz - 150KHz)
Test distance:	3m		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.0153	33.85	19.76	53.61	124.05	-70.44	AVG
2	0.0212	34.07	20.08	54.15	121.30	-67.15	AVG
3	0.0281	34.33	19.94	54.27	118.92	-64.65	AVG
4	0.0418	34.04	19.66	53.70	115.57	-61.87	AVG
5	0.0637	34.09	19.12	53.21	112.02	-58.81	AVG
6	0.1015	31.80	17.60	49.40	108.09	-58.69	QP

Remark:

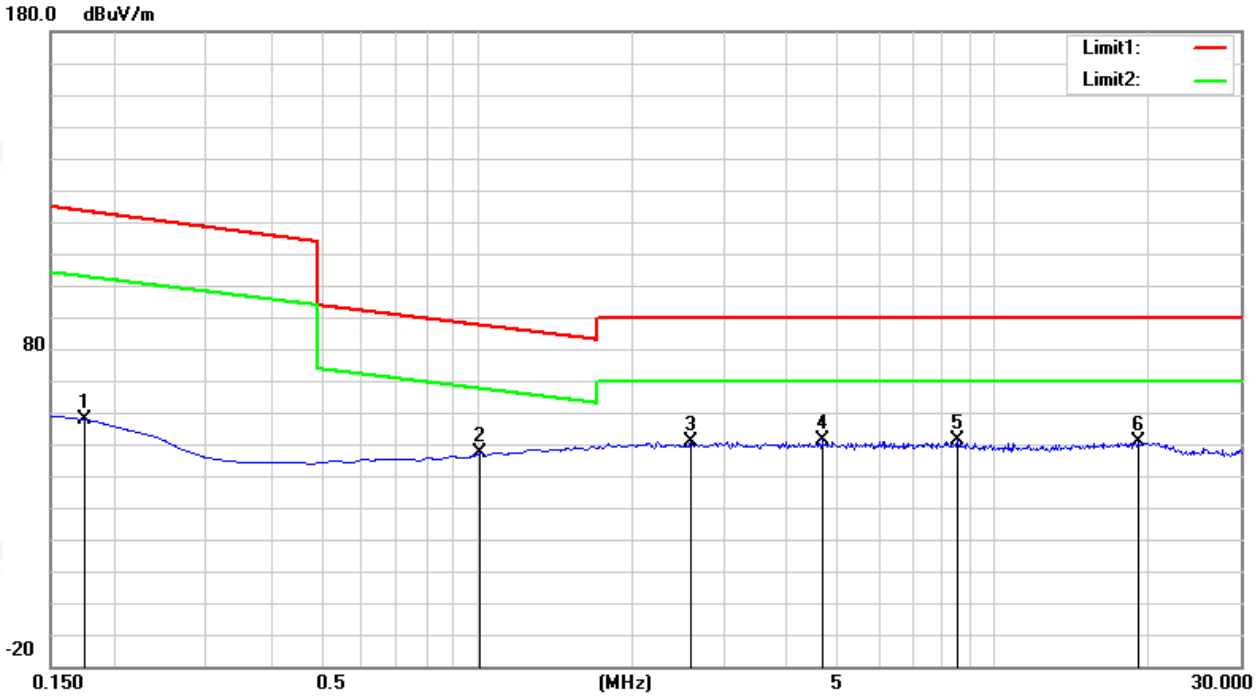
1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Test Mode:	CH 1(150KHz – 30MHz)
Test distance:	3m		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.1750	39.55	18.15	57.70	103.37	-45.67	AVG
2	1.0156	27.13	20.20	47.33	67.47	-20.14	QP
3	2.5977	30.77	20.22	50.99	69.54	-18.55	QP
4	4.6574	30.80	20.47	51.27	69.54	-18.27	QP
5	8.5380	30.77	20.29	51.06	69.54	-18.48	QP
6	19.0450	28.70	22.27	50.97	69.54	-18.57	QP

Remark:
1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



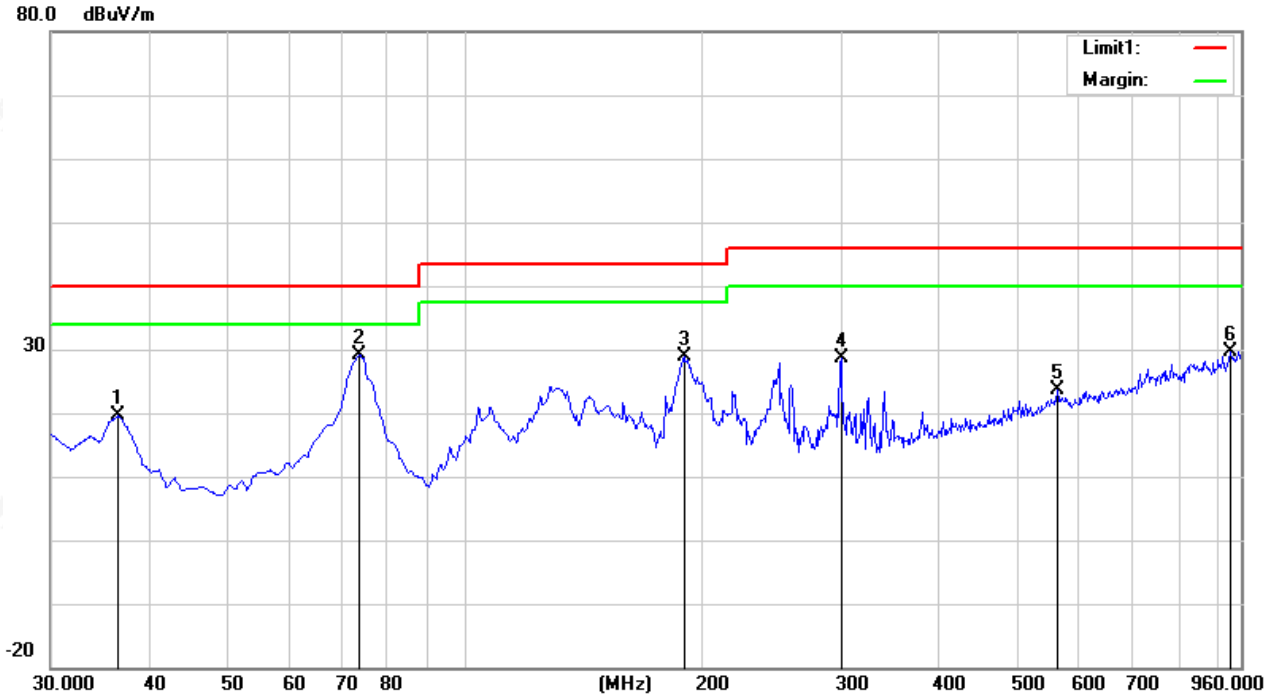
Note: The position of the measurement polarization (Horizontal / Face-on / Face-off) all has been tested, only shown the worst mode of Horizontal position.

30MHz – 960MHz Radiation Spurious

Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Horizontal
Test Mode:	CH 1	Test distance:	3m

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	36.5100	35.82	-16.25	19.57	40.00	-20.43	peak
2	73.7100	53.35	-24.19	29.16	40.00	-10.84	peak
3	189.9600	49.81	-20.98	28.83	43.50	-14.67	peak
4	299.7000	43.47	-14.82	28.65	46.00	-17.35	peak
5	563.8200	29.20	-5.53	23.67	46.00	-22.33	peak
6	931.1700	28.93	0.64	29.57	46.00	-16.43	peak

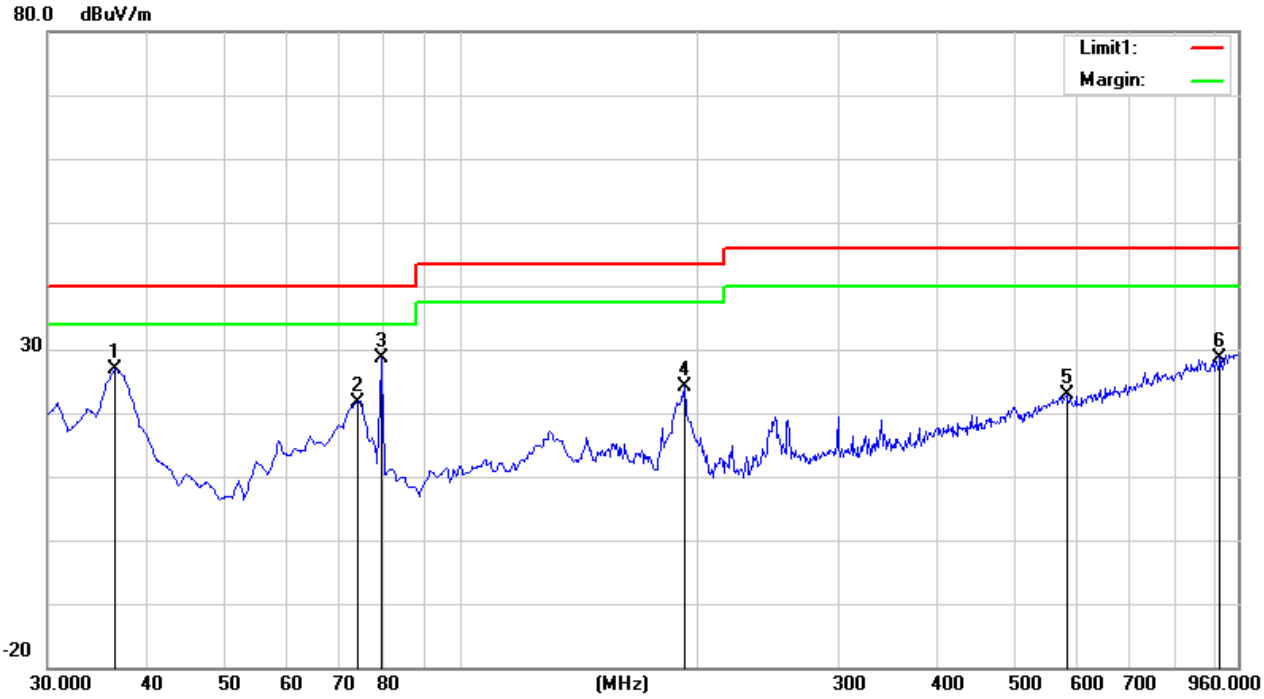
Remark:
1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Vertical
Test Mode:	CH 1	Test distance:	3m

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	36.5100	43.24	-16.25	26.99	40.00	-13.01	peak
2	74.1251	45.82	-24.10	21.72	40.00	-18.28	peak
3	79.2900	51.88	-23.15	28.73	40.00	-11.27	peak
4	191.8200	45.07	-21.03	24.04	43.50	-19.46	peak
5	583.3500	28.57	-5.78	22.79	46.00	-23.21	peak
6	911.6400	28.91	-0.16	28.75	46.00	-17.25	peak

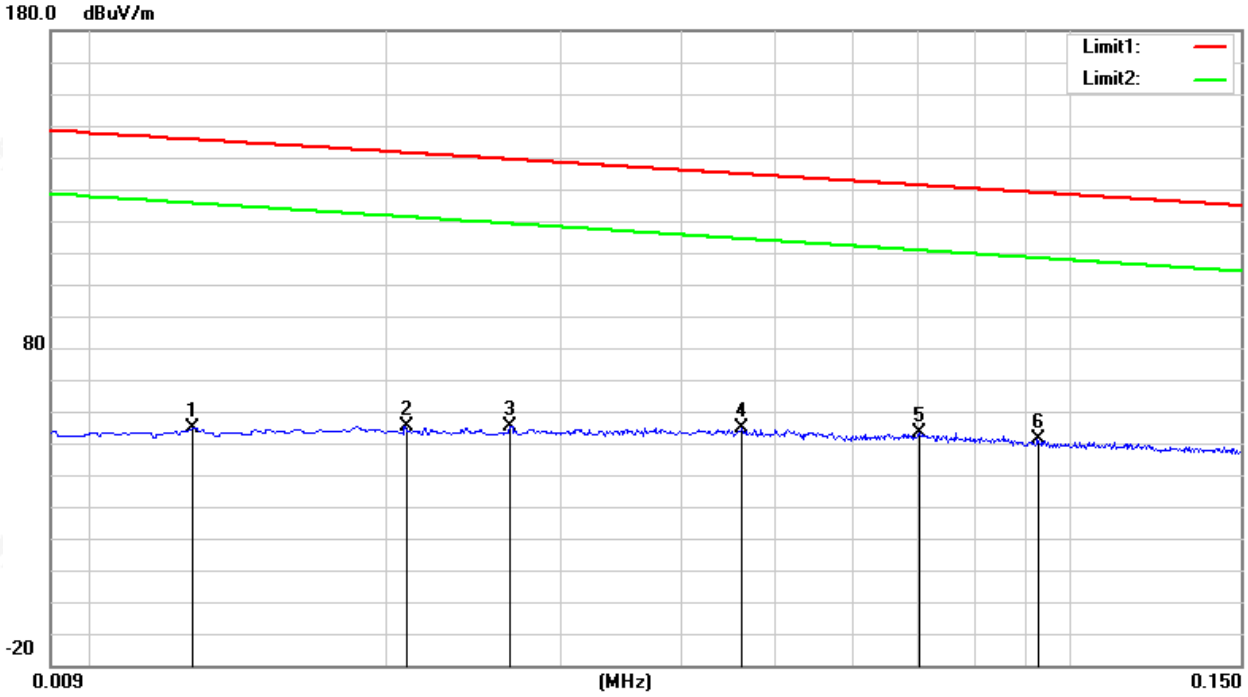
Remark:
1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Test Mode:	CH 2(9KHz - 150KHz)
Test distance:	3m		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.0126	35.07	19.56	54.63	125.68	-71.05	AVG
2	0.0208	35.02	20.08	55.10	121.46	-66.36	AVG
3	0.0267	35.13	19.97	55.10	119.35	-64.25	AVG
4	0.0461	35.31	19.58	54.89	114.75	-59.86	AVG
5	0.0702	34.33	18.93	53.26	111.20	-57.94	AVG
6	0.0930	33.16	17.94	51.10	108.83	-57.73	QP

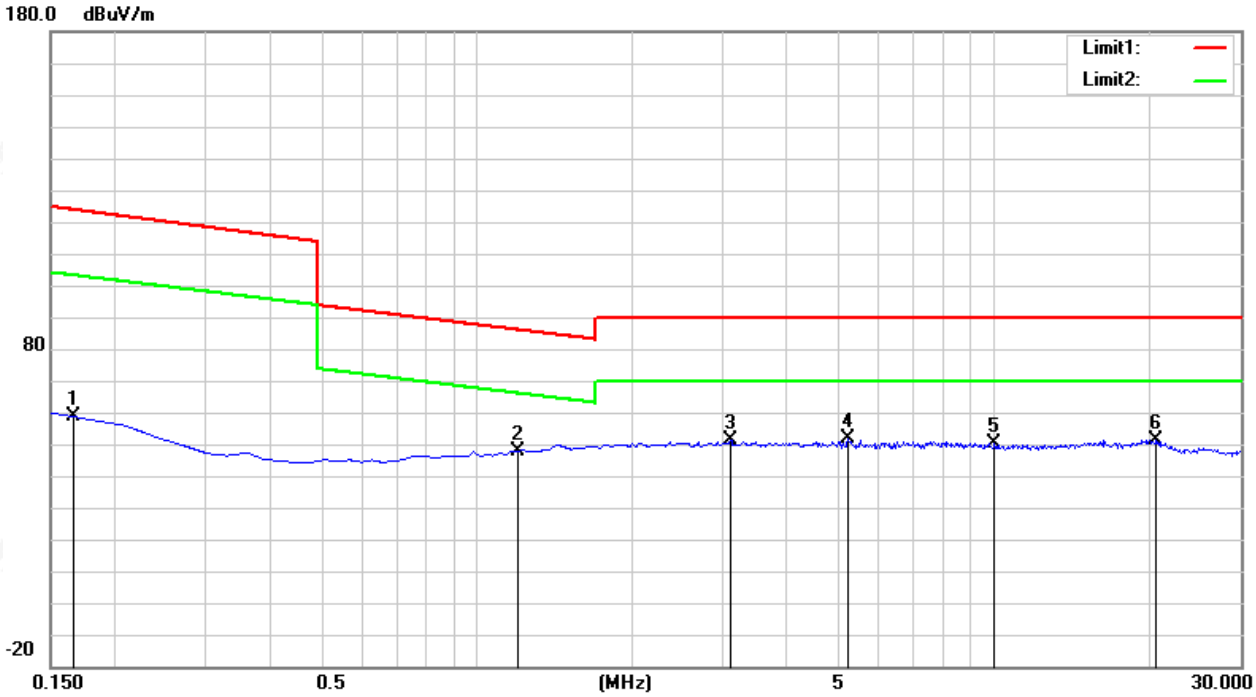
Remark:
3. Margin = Result (Result =Reading + Factor)–Limit
4. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Test Mode:	CH 2(150KHz – 30MHz)
Test distance:	3m		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.1660	40.79	17.92	58.71	103.86	-45.15	AVG
2	1.2034	27.55	20.24	47.79	66.00	-18.21	QP
3	3.1052	31.14	20.13	51.27	69.54	-18.27	QP
4	5.2245	31.18	20.49	51.67	69.54	-17.87	QP
5	10.0602	30.22	20.21	50.43	69.54	-19.11	QP
6	20.5972	29.03	22.27	51.30	69.54	-18.24	QP

Remark:
3. Margin = Result (Result =Reading + Factor)–Limit
4. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



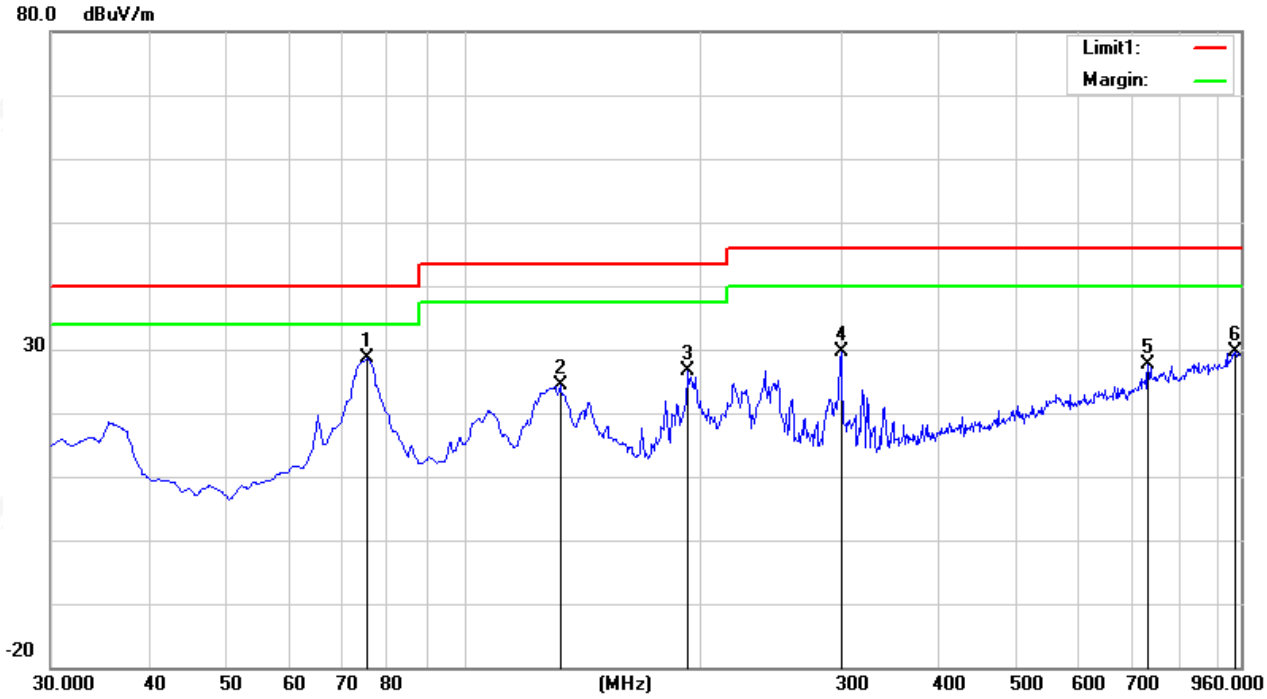
Note: The position of the measurement polarization (Horizontal / Face-on / Face-off) all has been tested, only shown the worst mode of Horizontal position.

30MHz – 960MHz Radiation Spurious

Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Horizontal
Test Mode:	CH 2	Test distance:	3m

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	75.5700	52.37	-23.78	28.59	40.00	-11.41	peak
2	132.3000	42.46	-18.19	24.27	43.50	-19.23	peak
3	191.8200	47.58	-21.03	26.55	43.50	-16.95	peak
4	299.7000	44.43	-14.82	29.61	46.00	-16.39	peak
5	734.0100	29.86	-2.33	27.53	46.00	-18.47	peak
6	945.1200	28.23	1.49	29.72	46.00	-16.28	peak

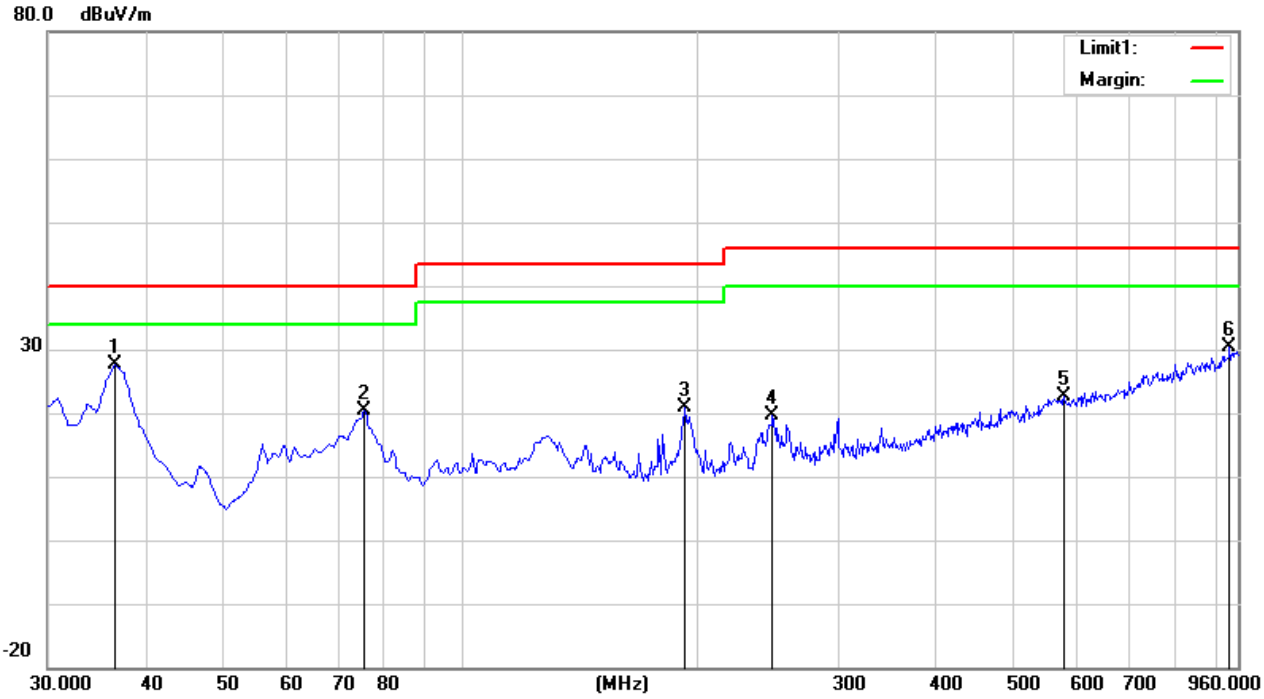
Remark:
3. Margin = Result (Result =Reading + Factor)–Limit
4. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Vertical
Test Mode:	CH 2	Test distance:	3m

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	36.5100	43.84	-16.25	27.59	40.00	-12.41	peak
2	75.5700	44.21	-23.78	20.43	40.00	-19.57	peak
3	191.8200	41.80	-21.03	20.77	43.50	-22.73	peak
4	247.6200	36.09	-16.54	19.55	46.00	-26.45	peak
5	580.5600	28.47	-5.77	22.70	46.00	-23.30	peak
6	938.6100	29.04	1.26	30.30	46.00	-15.70	peak

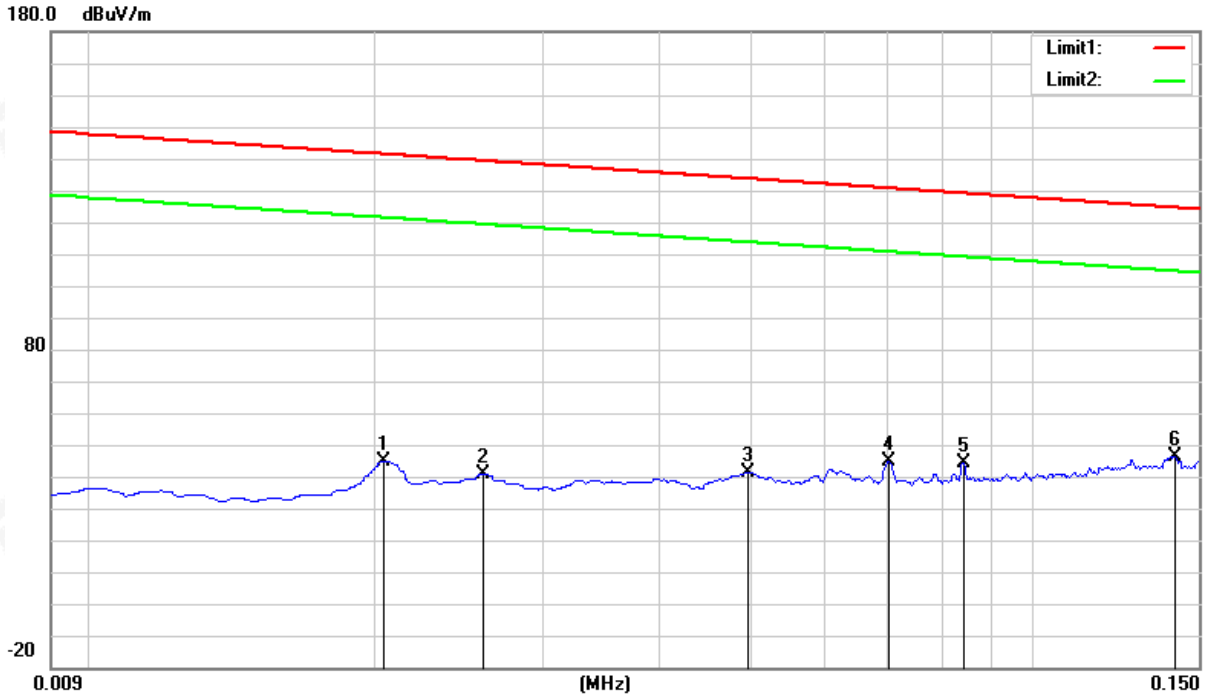
Remark:
3. Margin = Result (Result =Reading + Factor)–Limit
4. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Test Mode:	CH 3(9KHz - 150KHz)
Test distance:	3m		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.0204	24.74	20.09	44.83	121.41	-76.58	AVG
2	0.0260	20.75	19.98	40.73	119.3	-78.57	AVG
3	0.0497	21.76	19.51	41.27	113.68	-72.41	AVG
4	0.0701	25.92	18.94	44.86	110.69	-65.83	AVG
5	0.0843	25.94	18.35	44.29	109.09	-64.8	AVG
6	0.1414	28.97	17.52	46.49	104.59	-58.1	AVG

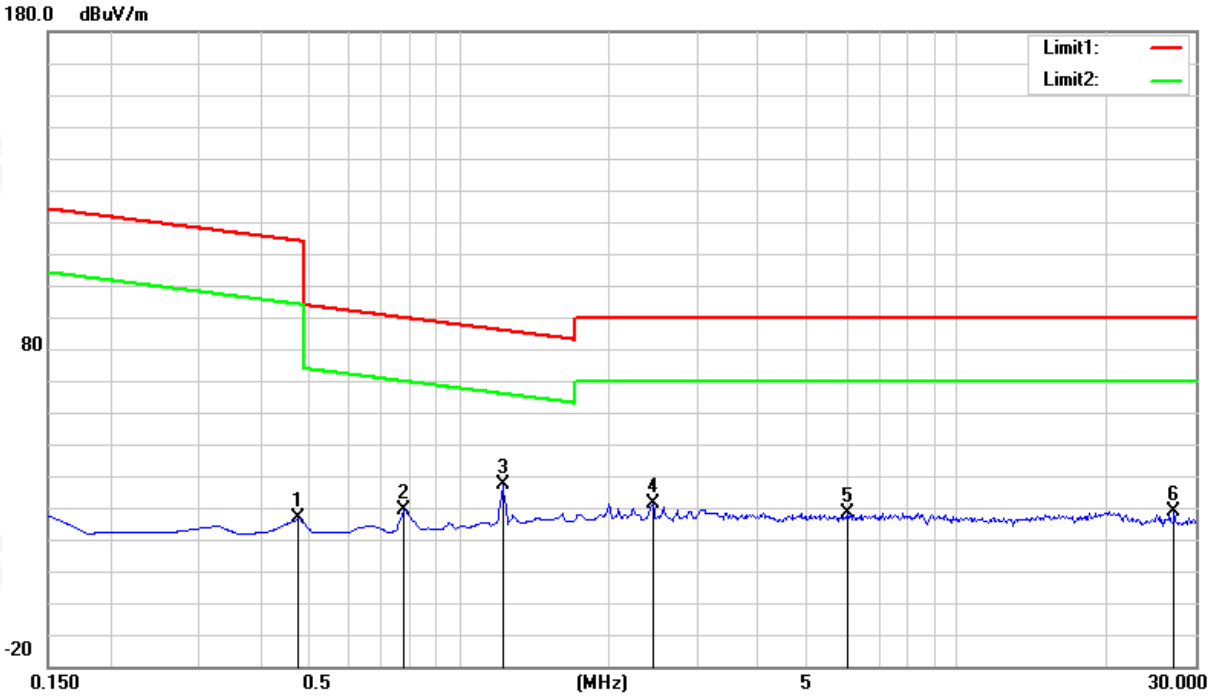
Remark:
5. Margin = Result (Result =Reading + Factor)–Limit
6. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Test Mode:	CH 3(150KHz – 30MHz)
Test distance:	3m		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.4783	6.38	20.19	26.57	94.01	-67.44	AVG
2	0.7768	9.01	20.29	29.30	69.80	-40.50	QP
3	1.2245	17.04	20.24	37.28	65.85	-28.57	QP
4	2.4484	11.14	20.27	31.41	69.54	-38.13	QP
5	6.0006	7.92	20.44	28.36	69.54	-41.18	QP
6	27.1642	8.35	20.43	28.78	69.54	-40.76	QP

Remark:
5. Margin = Result (Result =Reading + Factor)–Limit
6. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



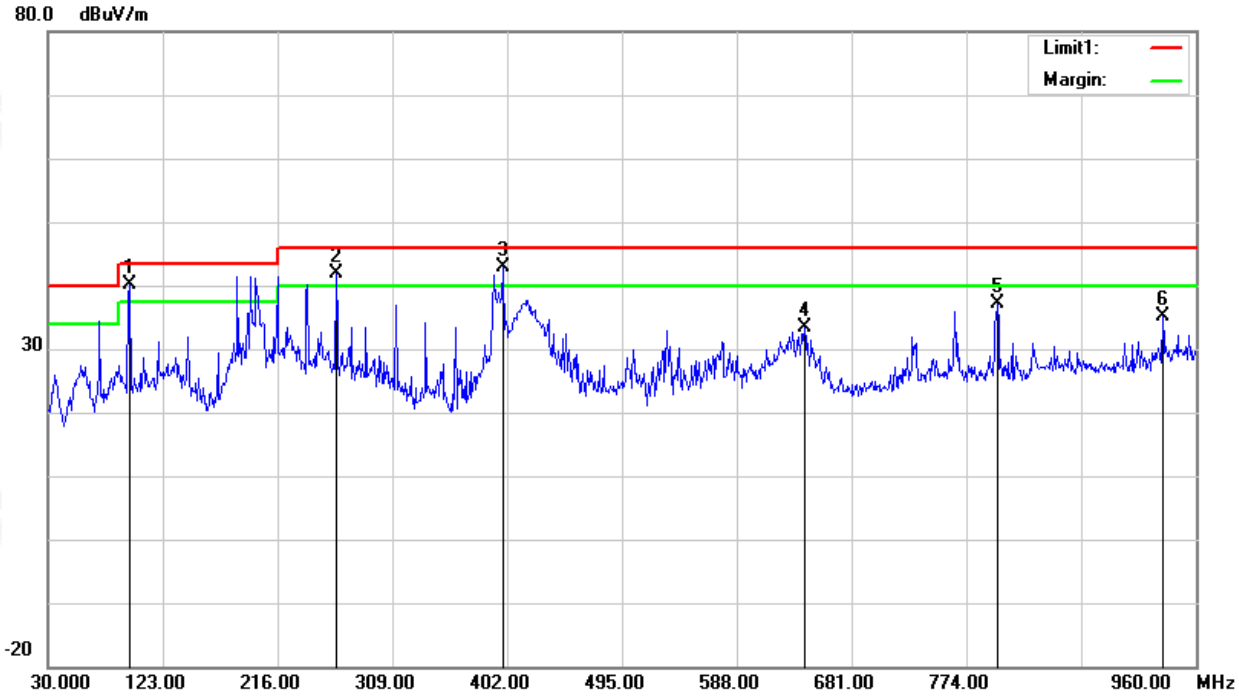
Note: The position of the measurement polarization (Horizontal / Face-on / Face-off) all has been tested, only shown the worst mode of Horizontal position.

30MHz – 960MHz Radiation Spurious

Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Horizontal
Test Mode:	CH 3		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	96.0300	60.91	-20.67	40.24	43.50	-3.26	QP
2	263.4300	56.72	-14.75	41.97	46.00	-4.03	QP
3	398.2800	53.99	-11.21	42.78	46.00	-3.22	QP
4	642.8700	38.22	-4.85	33.37	46.00	-12.63	QP
5	799.1100	39.20	-2.04	37.16	46.00	-8.84	QP
6	933.0300	34.26	0.80	35.06	46.00	-10.94	QP

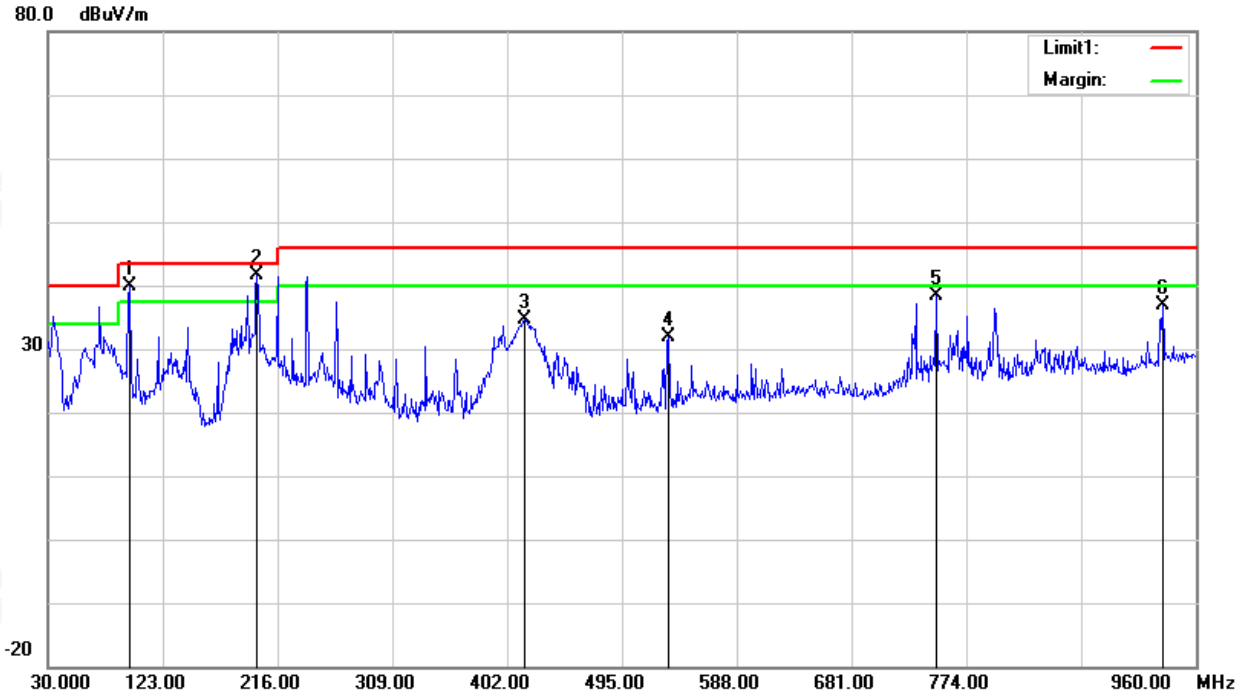
Remark:
5. Margin = Result (Result =Reading + Factor)–Limit
6. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Vertical
Test Mode:	CH 3		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	96.0300	60.54	-20.67	39.87	43.50	-3.63	QP
2	199.2600	62.63	-21.11	41.52	43.50	-1.98	QP
3	415.9500	44.86	-10.28	34.58	46.00	-11.42	QP
4	533.1300	39.16	-7.27	31.89	46.00	-14.11	QP
5	749.8200	40.62	-2.16	38.46	46.00	-7.54	QP
6	933.0300	36.17	0.80	36.97	46.00	-9.03	QP

Remark:
5. Margin = Result (Result =Reading + Factor)–Limit
6. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



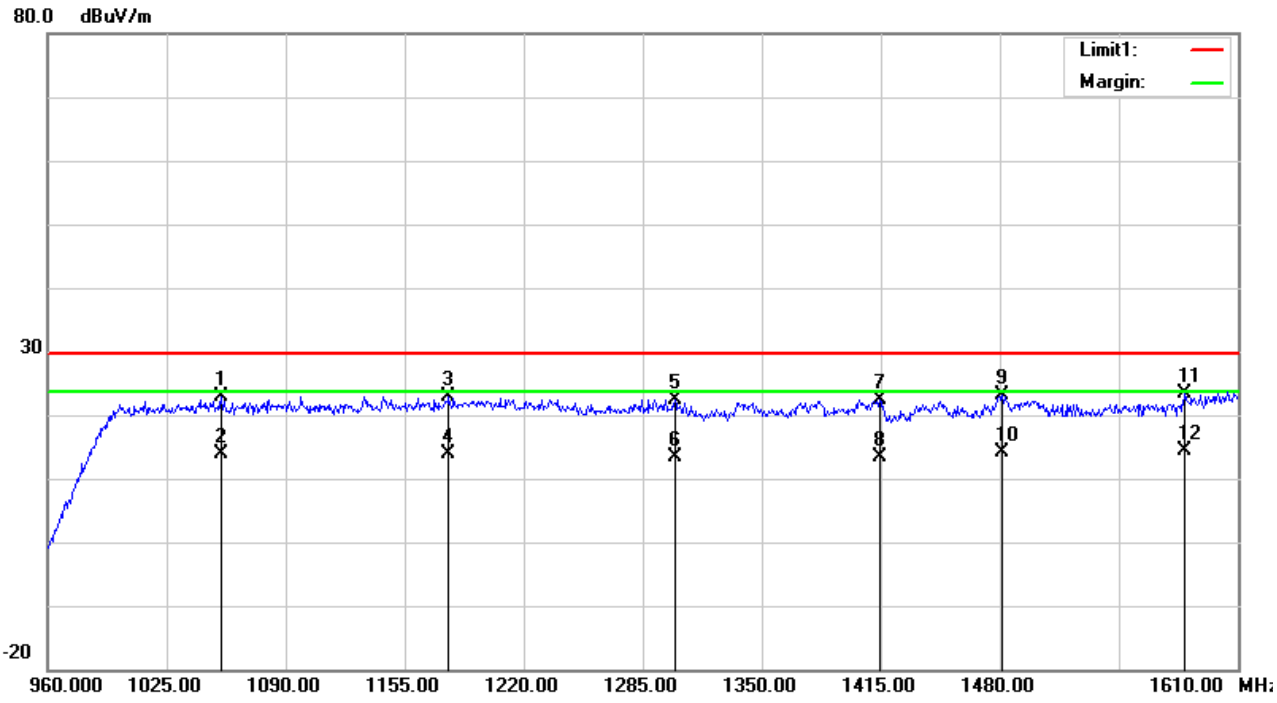
Above 960MHz Radiation Spurious

FCC:

Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Horizontal
Test Mode:	CH 1(960MHz -1610MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1054.900	24.16	-1.34	22.82	29.54	-6.72	peak
2	1054.900	15.16	-1.34	13.82	29.54	-15.72	RMS
3	1179.050	23.48	-0.63	22.85	29.54	-6.69	peak
4	1179.050	14.48	-0.63	13.85	29.54	-15.69	RMS
5	1302.550	22.61	-0.12	22.49	29.54	-7.05	peak
6	1302.550	13.61	-0.12	13.49	29.54	-16.05	RMS
7	1414.350	21.98	0.45	22.43	29.54	-7.11	peak
8	1414.350	12.98	0.45	13.43	29.54	-16.11	RMS
9	1481.300	21.89	1.26	23.15	29.54	-6.39	peak
10	1481.300	12.89	1.26	14.15	29.54	-15.39	RMS
11	1580.750	19.85	3.64	23.49	29.54	-6.05	peak
12	1580.750	10.85	3.64	14.49	29.54	-15.05	RMS

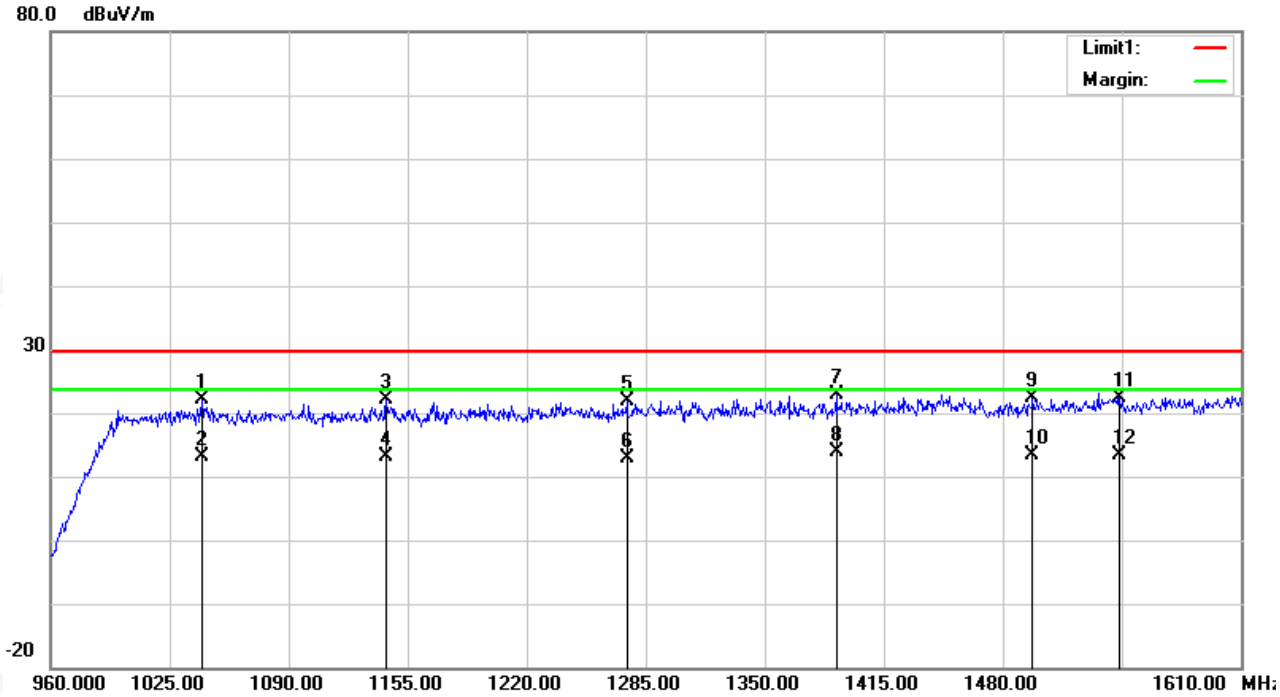
Remark:
1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Vertical
Test Mode:	CH 1(960MHz -1610MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1042.550	23.62	-1.41	22.21	29.54	-7.33	peak
2	1042.550	14.62	-1.41	13.21	29.54	-16.33	RMS
3	1143.300	22.95	-0.94	22.01	29.54	-7.53	peak
4	1143.300	13.95	-0.94	13.01	29.54	-16.53	RMS
5	1274.600	22.21	-0.33	21.88	29.54	-7.66	peak
6	1274.600	13.21	-0.33	12.88	29.54	-16.66	RMS
7	1389.000	22.65	0.22	22.87	29.54	-6.67	peak
8	1389.000	13.65	0.22	13.87	29.54	-15.67	RMS
9	1496.250	20.89	1.43	22.32	29.54	-7.22	peak
10	1496.250	11.89	1.43	13.32	29.54	-16.22	RMS
11	1543.700	19.98	2.52	22.50	29.54	-7.04	peak
12	1543.700	10.98	2.52	13.50	29.54	-16.04	RMS

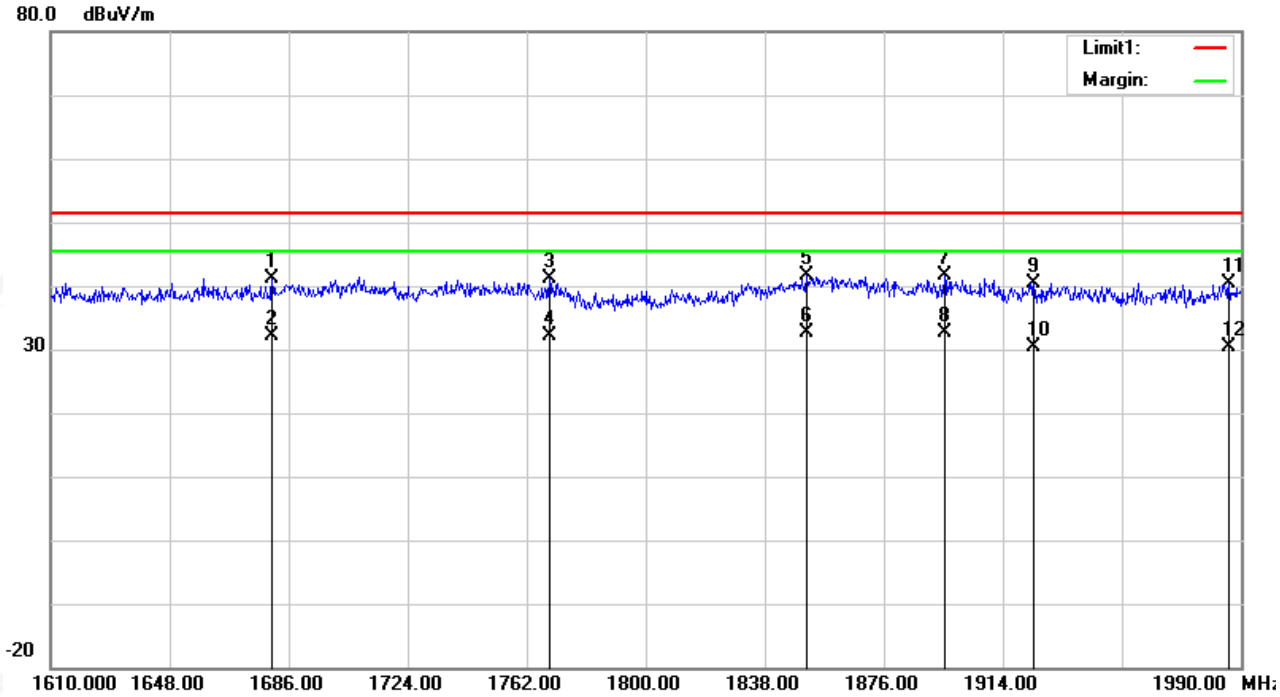
Remark:
1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Horizontal
Test Mode:	CH 1(1610MHz – 1990MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1680.680	36.28	4.84	41.12	51.44	-10.32	peak
2	1680.680	27.28	4.84	32.12	51.44	-19.32	RMS
3	1769.220	38.13	2.93	41.06	51.44	-10.38	peak
4	1769.220	29.13	2.93	32.06	51.44	-19.38	RMS
5	1851.300	39.27	2.33	41.60	51.44	-9.84	peak
6	1851.300	30.27	2.33	32.60	51.44	-18.84	RMS
7	1895.380	40.01	1.54	41.55	51.44	-9.89	peak
8	1895.380	31.01	1.54	32.55	51.44	-18.89	RMS
9	1923.880	38.86	1.49	40.35	51.44	-11.09	peak
10	1923.880	28.86	1.49	30.35	51.44	-21.09	RMS
11	1986.200	38.50	1.88	40.38	51.44	-11.06	peak
12	1986.200	28.50	1.88	30.38	51.44	-21.06	RMS

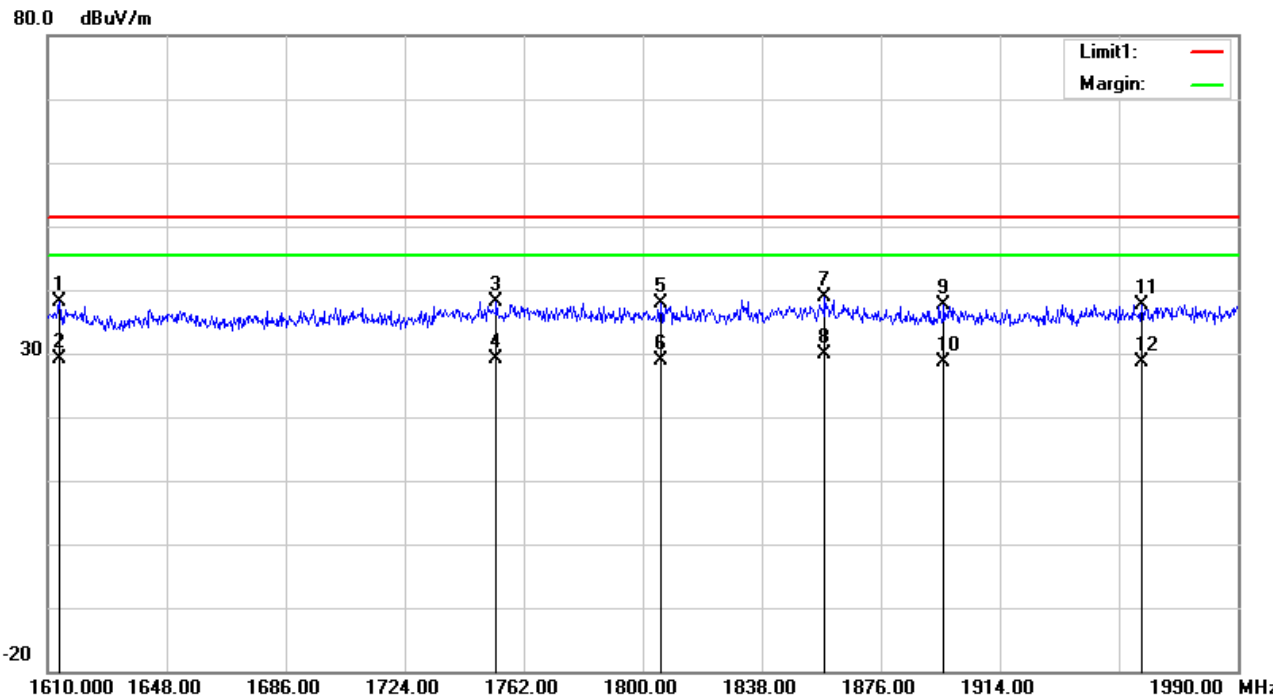
Remark:
1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Vertical
Test Mode:	CH 1(1610MHz – 1990MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1613.800	33.77	4.24	38.01	51.44	-13.43	peak
2	1613.800	24.77	4.24	29.01	51.44	-22.43	RMS
3	1753.260	34.49	3.54	38.03	51.44	-13.41	peak
4	1753.260	25.49	3.54	29.03	51.44	-22.41	RMS
5	1805.700	36.13	1.84	37.97	51.44	-13.47	peak
6	1805.700	27.13	1.84	28.97	51.44	-22.47	RMS
7	1858.140	36.76	2.21	38.97	51.44	-12.47	peak
8	1858.140	27.76	2.21	29.97	51.44	-21.47	RMS
9	1896.140	36.16	1.53	37.69	51.44	-13.75	peak
10	1896.140	27.16	1.53	28.69	51.44	-22.75	RMS
11	1959.220	36.09	1.62	37.71	51.44	-13.73	peak
12	1959.220	27.09	1.62	28.71	51.44	-22.73	RMS

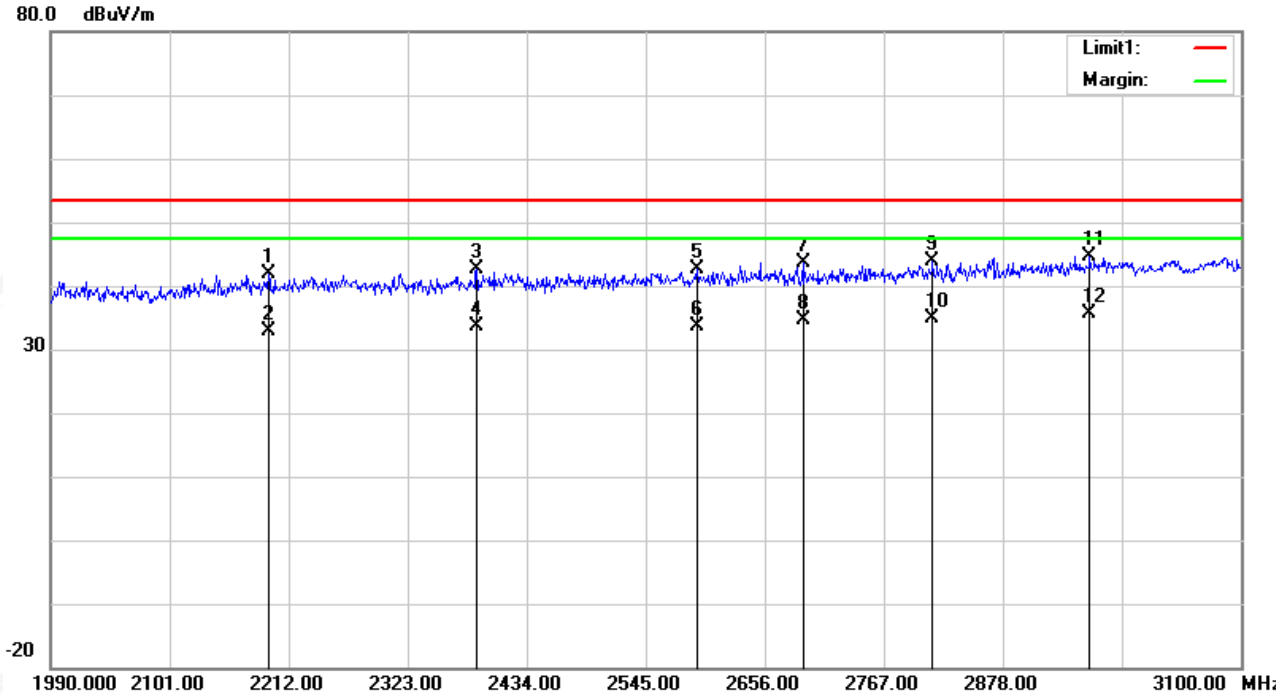
Remark:
1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Horizontal
Test Mode:	CH 1(1990MHz – 3100MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2193.130	38.95	2.98	41.93	53.44	-11.51	peak
2	2193.130	29.95	2.98	32.93	53.44	-20.51	RMS
3	2387.380	38.25	4.30	42.55	53.44	-10.89	peak
4	2387.380	29.25	4.30	33.55	53.44	-19.89	RMS
5	2592.730	37.61	5.02	42.63	53.44	-10.81	peak
6	2592.730	28.61	5.02	33.63	53.44	-19.81	RMS
7	2691.520	38.02	5.60	43.62	53.44	-9.82	peak
8	2691.520	29.02	5.60	34.62	53.44	-18.82	RMS
9	2812.510	37.63	6.32	43.95	53.44	-9.49	peak
10	2812.510	28.63	6.32	34.95	53.44	-18.49	RMS
11	2959.030	37.65	6.99	44.64	53.44	-8.80	peak
12	2959.030	28.65	6.99	35.64	53.44	-17.80	RMS

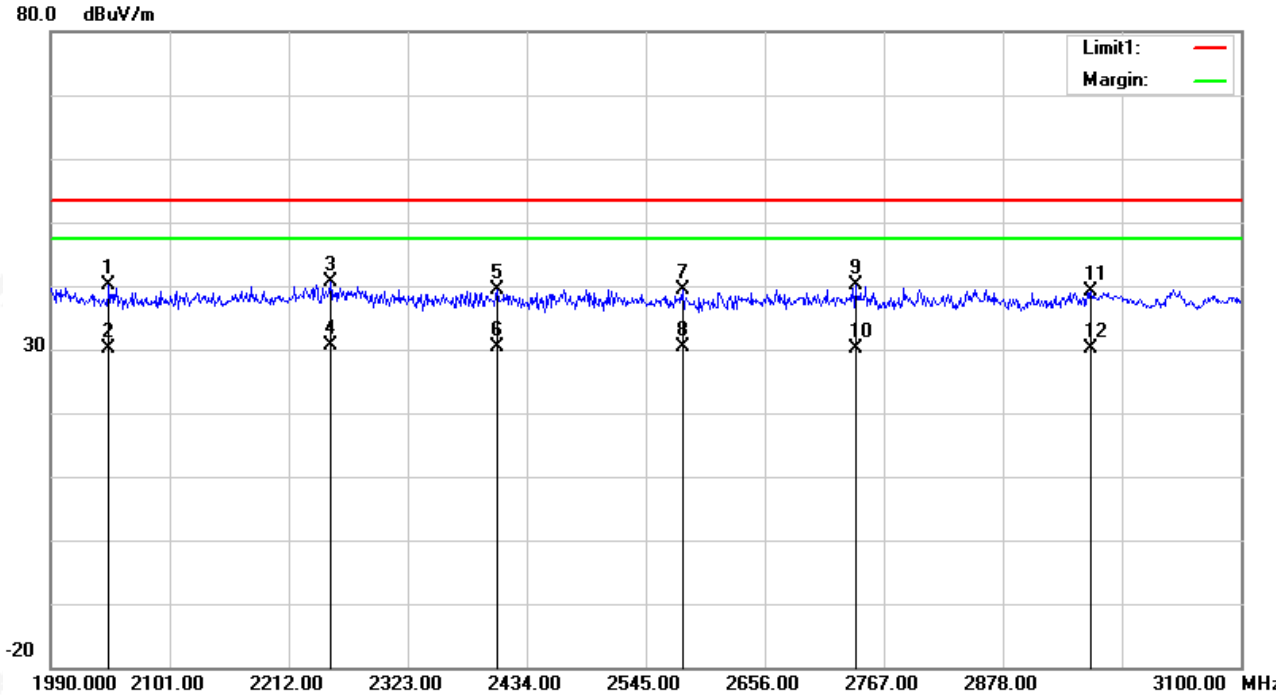
Remark:
1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Vertical
Test Mode:	CH 1(1990MHz – 3100MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2044.390	38.12	2.09	40.21	53.44	-13.23	peak
2	2044.390	28.12	2.09	30.21	53.44	-23.23	RMS
3	2250.850	36.93	3.76	40.69	53.44	-12.75	peak
4	2250.850	26.93	3.76	30.69	53.44	-22.75	RMS
5	2406.250	34.87	4.49	39.36	53.44	-14.08	peak
6	2406.250	25.87	4.49	30.36	53.44	-23.08	RMS
7	2579.410	34.35	5.01	39.36	53.44	-14.08	peak
8	2579.410	25.35	5.01	30.36	53.44	-23.08	RMS
9	2740.360	34.12	5.98	40.10	53.44	-13.34	peak
10	2740.360	24.12	5.98	30.10	53.44	-23.34	RMS
11	2960.140	32.08	6.99	39.07	53.44	-14.37	peak
12	2960.140	23.08	6.99	30.07	53.44	-23.37	RMS

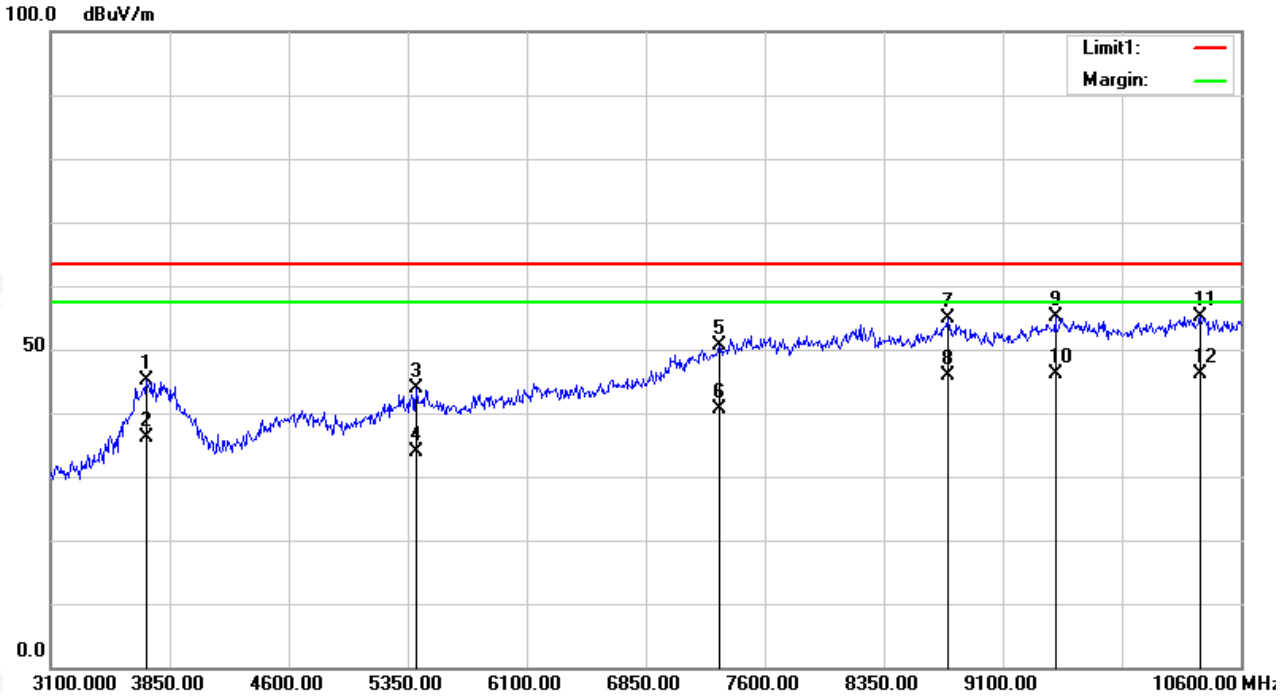
Remark:
1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Horizontal
Test Mode:	CH 1(3100MHz – 10600MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3700.000	55.59	-10.55	45.04	63.44	-18.40	peak
2	3700.000	46.59	-10.55	36.04	63.44	-27.40	RMS
3	5402.500	49.12	-5.25	43.87	63.44	-19.57	peak
4	5402.500	39.12	-5.25	33.87	63.44	-29.57	RMS
5	7315.000	49.66	0.95	50.61	63.44	-12.83	peak
6	7315.000	39.66	0.95	40.61	63.44	-22.83	RMS
7	8755.000	52.25	2.59	54.84	63.44	-8.60	peak
8	8755.000	43.25	2.59	45.84	63.44	-17.60	RMS
9	9430.000	52.10	3.04	55.14	63.44	-8.30	peak
10	9430.000	43.10	3.04	46.14	63.44	-17.30	RMS
11	10345.000	50.76	4.47	55.23	63.44	-8.21	peak
12	10345.000	41.76	4.47	46.23	63.44	-17.21	RMS

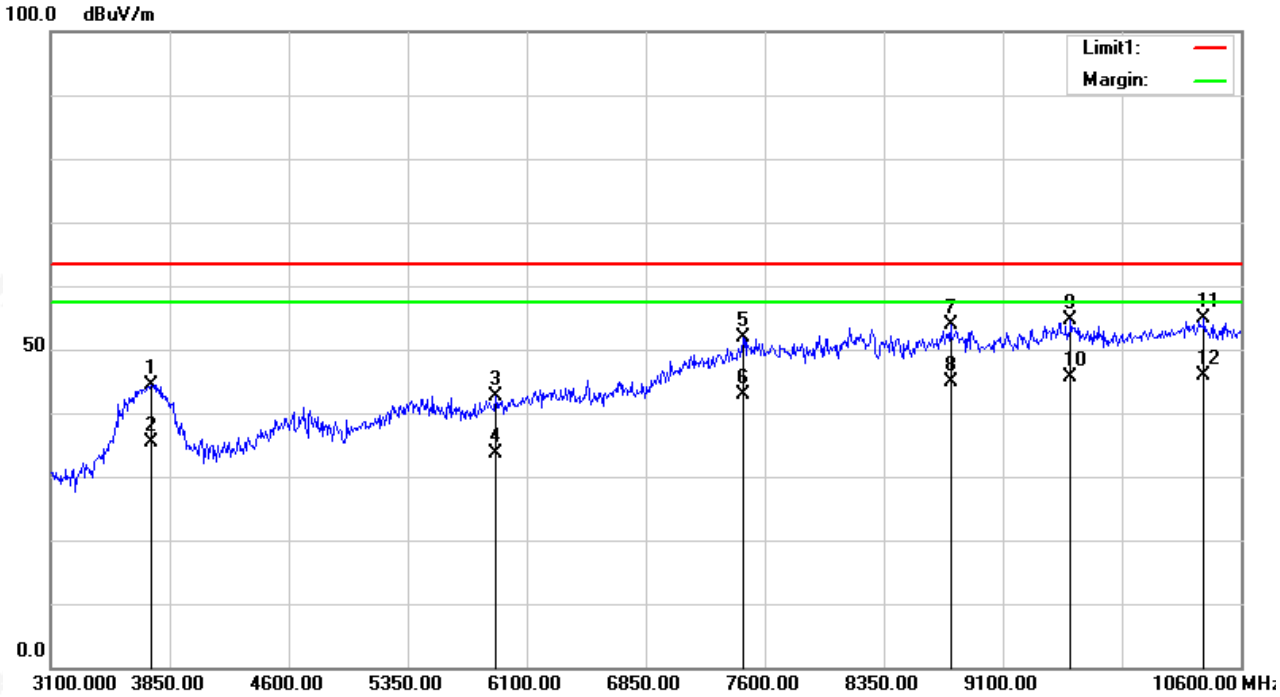
Remark:
1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Vertical
Test Mode:	CH 1(3100MHz – 10600MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3730.000	55.08	-10.59	44.49	63.44	-18.95	peak
2	3730.000	46.08	-10.59	35.49	63.44	-27.95	RMS
3	5905.000	46.63	-3.89	42.74	63.44	-20.70	peak
4	5905.000	37.63	-3.89	33.74	63.44	-29.70	RMS
5	7465.000	50.31	1.50	51.81	63.44	-11.63	peak
6	7465.000	41.31	1.50	42.81	63.44	-20.63	RMS
7	8770.000	51.32	2.58	53.90	63.44	-9.54	peak
8	8770.000	42.32	2.58	44.90	63.44	-18.54	RMS
9	9527.500	51.56	3.15	54.71	63.44	-8.73	peak
10	9527.500	42.56	3.15	45.71	63.44	-17.73	RMS
11	10367.500	50.26	4.54	54.80	63.44	-8.64	peak
12	10367.500	41.26	4.54	45.80	63.44	-17.64	RMS

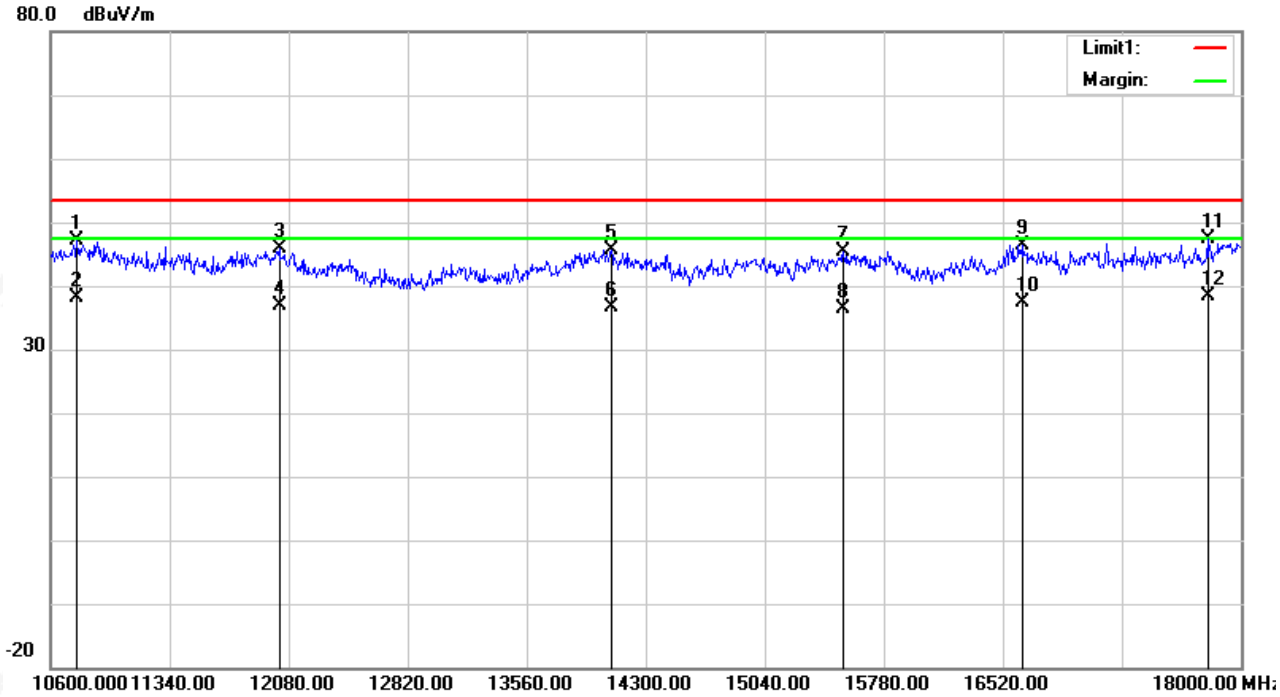
Remark:
1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Horizontal
Test Mode:	CH 1(10600MHz – 18000MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10762.800	41.49	5.67	47.16	53.44	-6.28	peak
2	10762.800	32.49	5.67	38.16	53.44	-15.28	RMS
3	12020.800	40.08	5.81	45.89	53.44	-7.55	peak
4	12020.800	31.08	5.81	36.89	53.44	-16.55	RMS
5	14085.400	33.42	12.17	45.59	53.44	-7.85	peak
6	14085.400	24.42	12.17	36.59	53.44	-16.85	RMS
7	15528.400	35.77	9.54	45.31	53.44	-8.13	peak
8	15528.400	26.77	9.54	36.31	53.44	-17.13	RMS
9	16645.800	37.03	9.44	46.47	53.44	-6.97	peak
10	16645.800	28.03	9.44	37.47	53.44	-15.97	RMS
11	17792.800	35.87	11.47	47.34	53.44	-6.10	peak
12	17792.800	26.87	11.47	38.34	53.44	-15.10	RMS

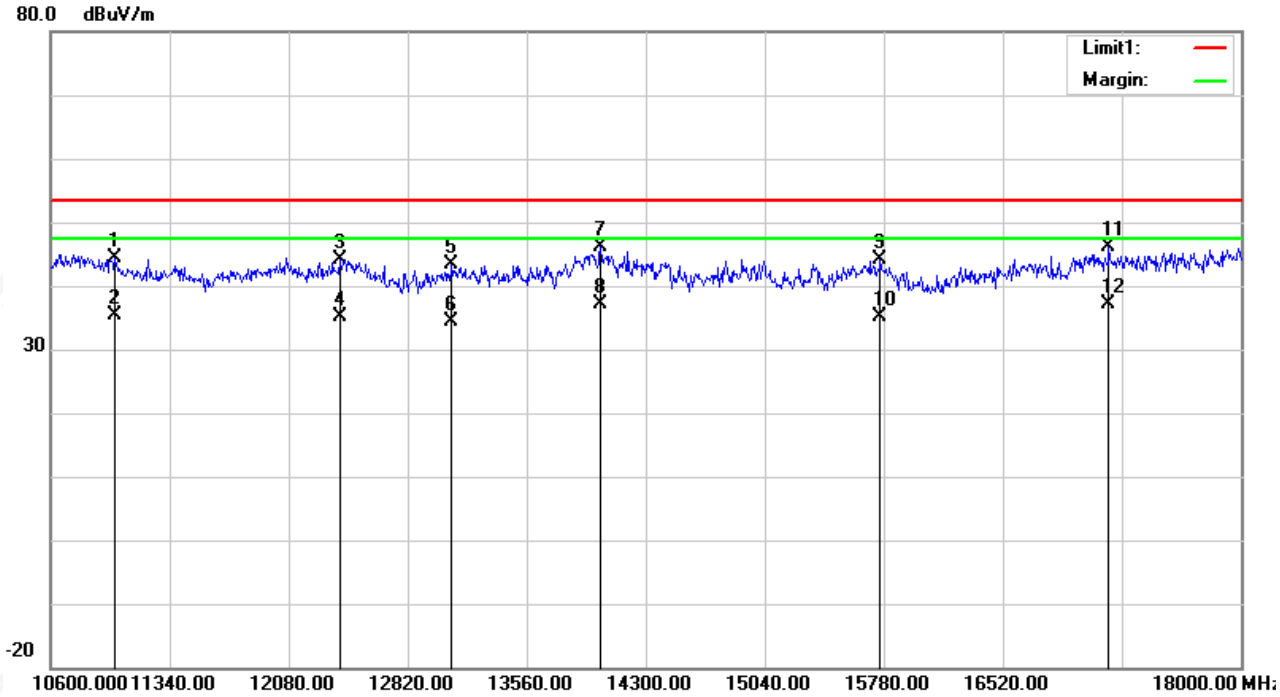
Remark:
1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Vertical
Test Mode:	CH 1(10600MHz – 18000MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10999.600	38.08	6.29	44.37	53.44	-9.07	peak
2	10999.600	29.08	6.29	35.37	53.44	-18.07	RMS
3	12398.200	38.30	5.82	44.12	53.44	-9.32	peak
4	12398.200	29.30	5.82	35.12	53.44	-18.32	RMS
5	13093.800	36.24	7.13	43.37	53.44	-10.07	peak
6	13093.800	27.24	7.13	34.37	53.44	-19.07	RMS
7	14018.800	33.83	12.29	46.12	53.44	-7.32	peak
8	14018.800	24.83	12.29	37.12	53.44	-16.32	RMS
9	15757.800	36.01	8.13	44.14	53.44	-9.30	peak
10	15757.800	27.01	8.13	35.14	53.44	-18.30	RMS
11	17178.600	36.07	10.12	46.19	53.44	-7.25	peak
12	17178.600	27.07	10.12	37.19	53.44	-16.25	RMS

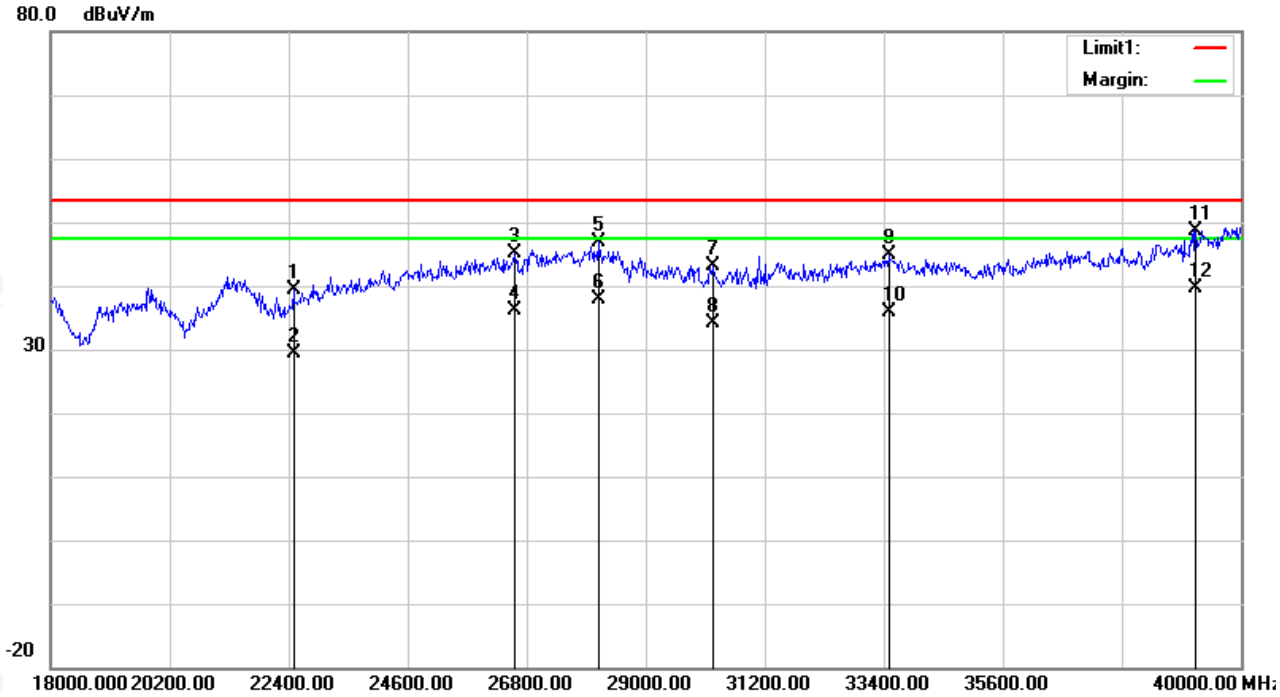
Remark:
1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Horizontal
Test Mode:	CH 1(18000MHz – 40000MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	22488.000	27.68	11.80	39.48	53.44	-13.96	peak
2	22488.000	17.68	11.80	29.48	53.44	-23.96	RMS
3	26580.000	26.85	18.36	45.21	53.44	-8.23	peak
4	26580.000	17.85	18.36	36.21	53.44	-17.23	RMS
5	28120.000	27.37	19.43	46.80	53.44	-6.64	peak
6	28120.000	18.37	19.43	37.80	53.44	-15.64	RMS
7	30232.000	27.27	15.88	43.15	53.44	-10.29	peak
8	30232.000	18.27	15.88	34.15	53.44	-19.29	RMS
9	33488.000	29.07	15.72	44.79	53.44	-8.65	peak
10	33488.000	20.07	15.72	35.79	53.44	-17.65	RMS
11	39164.000	30.42	18.29	48.71	53.44	-4.73	peak
12	39164.000	21.42	18.29	39.71	53.44	-13.73	RMS

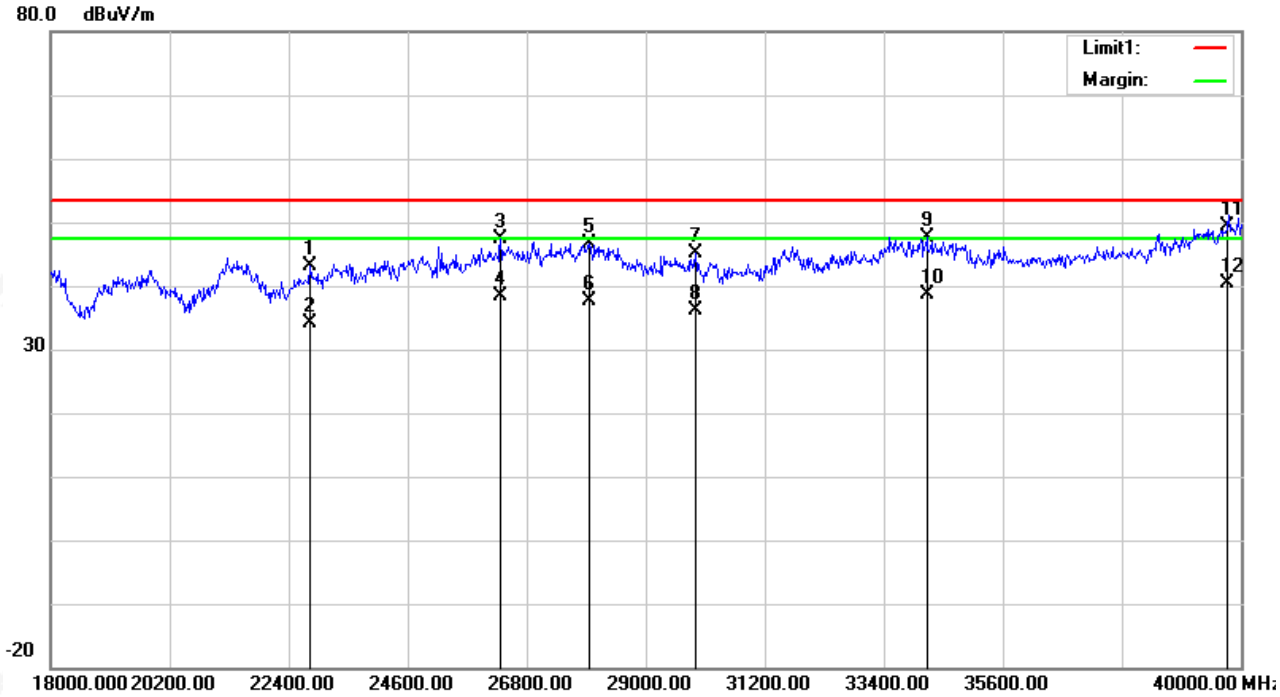
Remark:
1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Vertical
Test Mode:	CH 1(18000MHz – 40000MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	22796.000	29.55	13.65	43.20	53.44	-10.24	peak
2	22796.000	20.55	13.65	34.20	53.44	-19.24	RMS
3	26316.000	29.18	18.13	47.31	53.44	-6.13	peak
4	26316.000	20.18	18.13	38.31	53.44	-15.13	RMS
5	27944.000	27.05	19.60	46.65	53.44	-6.79	peak
6	27944.000	18.05	19.60	37.65	53.44	-15.79	RMS
7	29924.000	28.95	16.07	45.02	53.44	-8.42	peak
8	29924.000	19.95	16.07	36.02	53.44	-17.42	RMS
9	34192.000	31.85	15.89	47.74	53.44	-5.70	peak
10	34192.000	22.85	15.89	38.74	53.44	-14.70	RMS
11	39758.000	30.76	18.62	49.38	53.44	-4.06	peak
12	39758.000	21.76	18.62	40.38	53.44	-13.06	RMS

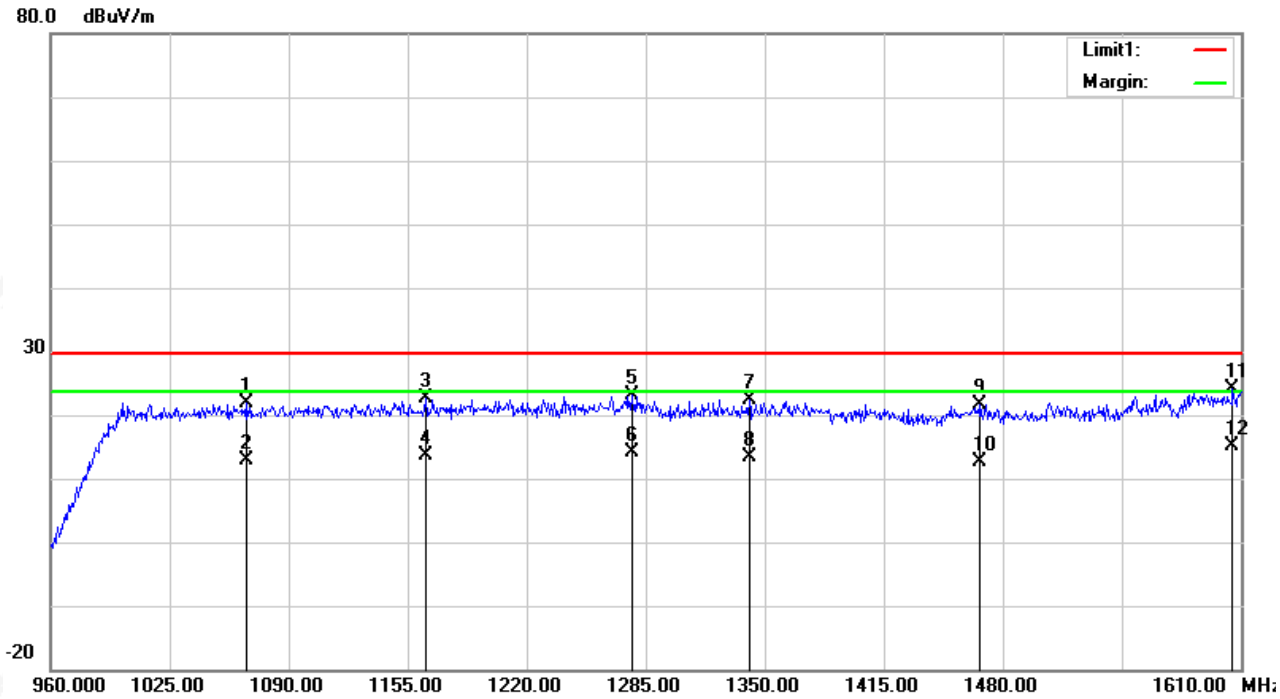
Remark:
1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Horizontal
Test Mode:	CH 2(960MHz -1610MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1066.600	23.17	-1.27	21.90	29.54	-7.64	peak
2	1066.600	14.17	-1.27	12.90	29.54	-16.64	RMS
3	1164.750	23.38	-0.77	22.61	29.54	-6.93	peak
4	1164.750	14.38	-0.77	13.61	29.54	-15.93	RMS
5	1277.200	23.51	-0.30	23.21	29.54	-6.33	peak
6	1277.200	14.51	-0.30	14.21	29.54	-15.33	RMS
7	1341.550	22.47	0.03	22.50	29.54	-7.04	peak
8	1341.550	13.47	0.03	13.50	29.54	-16.04	RMS
9	1467.650	20.49	1.10	21.59	29.54	-7.95	peak
10	1467.650	11.49	1.10	12.59	29.54	-16.95	RMS
11	1605.450	19.88	4.24	24.12	29.54	-5.42	peak
12	1605.450	10.88	4.24	15.12	29.54	-14.42	RMS

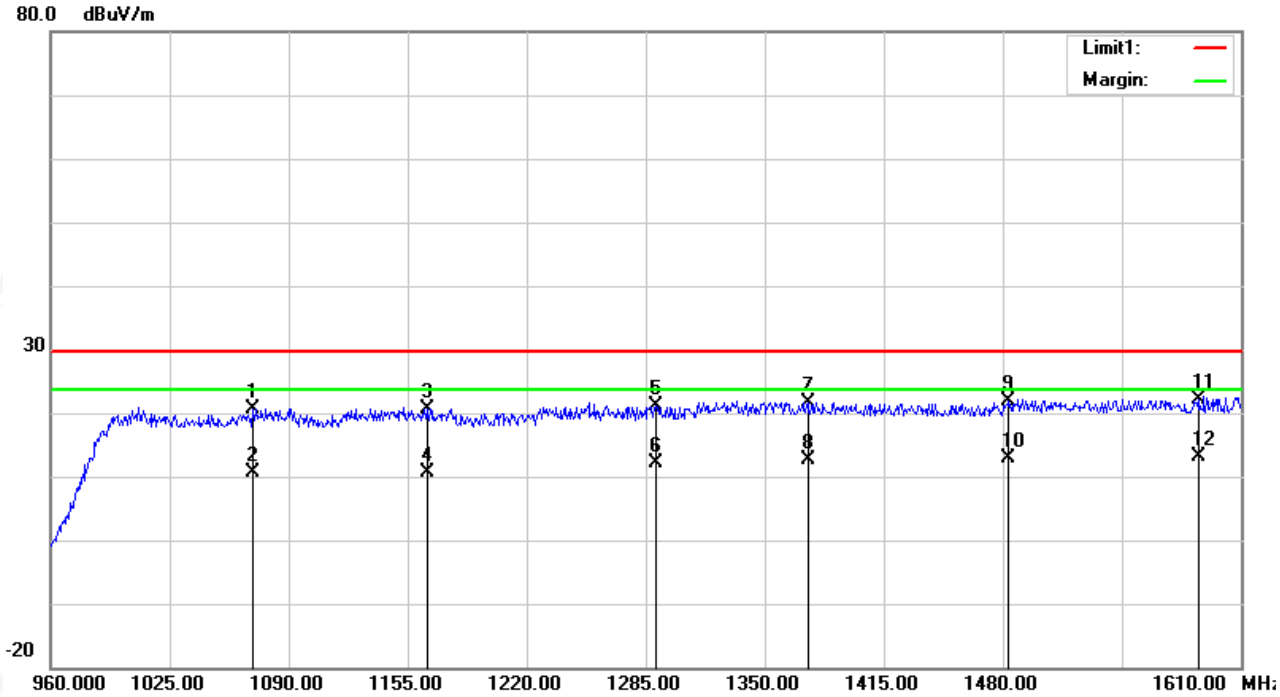
Remark:
3. Margin = Result (Result =Reading + Factor)–Limit
4. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Vertical
Test Mode:	CH 2(960MHz -1610MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1070.500	21.95	-1.25	20.70	29.54	-8.84	peak
2	1070.500	11.95	-1.25	10.70	29.54	-18.84	RMS
3	1165.400	21.49	-0.76	20.73	29.54	-8.81	peak
4	1165.400	11.49	-0.76	10.73	29.54	-18.81	RMS
5	1290.850	21.23	-0.20	21.03	29.54	-8.51	peak
6	1290.850	12.23	-0.20	12.03	29.54	-17.51	RMS
7	1373.400	21.53	0.16	21.69	29.54	-7.85	peak
8	1373.400	12.53	0.16	12.69	29.54	-16.85	RMS
9	1483.250	20.69	1.29	21.98	29.54	-7.56	peak
10	1483.250	11.69	1.29	12.98	29.54	-16.56	RMS
11	1587.250	18.25	3.84	22.09	29.54	-7.45	peak
12	1587.250	9.25	3.84	13.09	29.54	-16.45	RMS

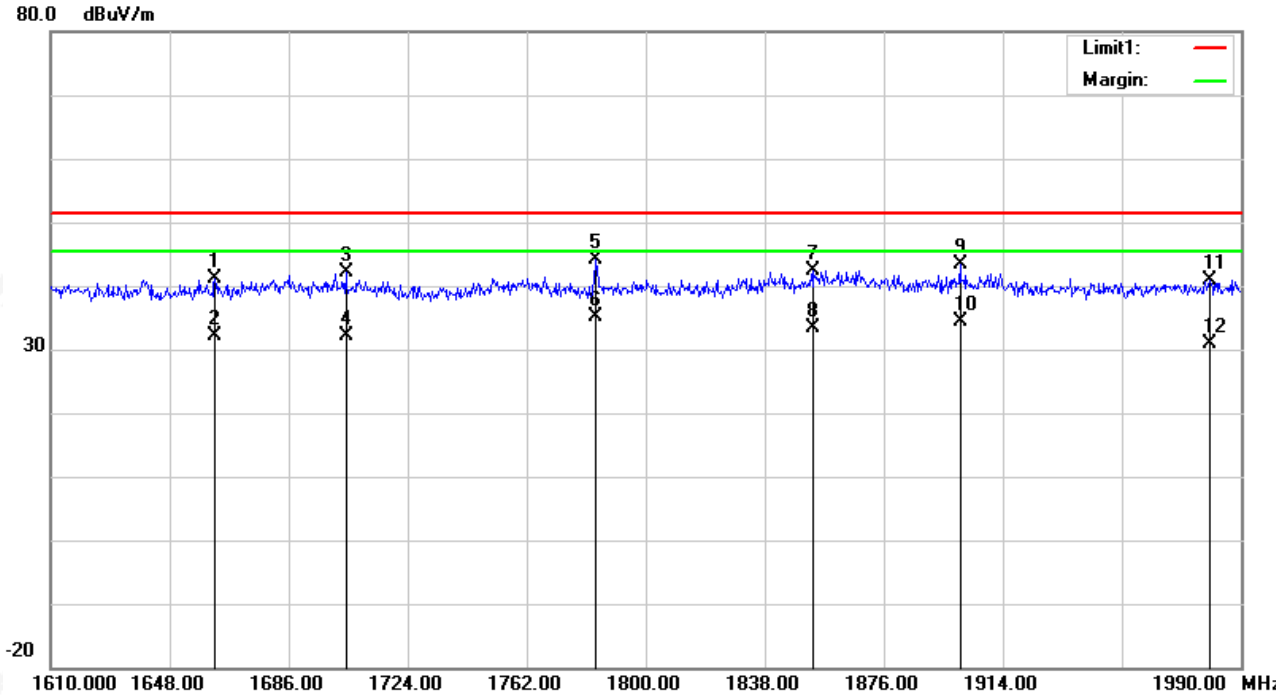
Remark:
3. Margin = Result (Result =Reading + Factor)–Limit
4. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Horizontal
Test Mode:	CH 2(1610MHz – 1990MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1662.440	36.66	4.48	41.14	51.44	-10.30	peak
2	1662.440	27.66	4.48	32.14	51.44	-19.30	RMS
3	1704.240	37.07	5.09	42.16	51.44	-9.28	peak
4	1704.240	27.07	5.09	32.16	51.44	-19.28	RMS
5	1784.040	41.68	2.37	44.05	51.44	-7.39	peak
6	1784.040	32.68	2.37	35.05	51.44	-16.39	RMS
7	1853.580	40.18	2.29	42.47	51.44	-8.97	peak
8	1853.580	31.18	2.29	33.47	51.44	-17.97	RMS
9	1900.320	41.80	1.46	43.26	51.44	-8.18	peak
10	1900.320	32.80	1.46	34.26	51.44	-17.18	RMS
11	1980.120	39.00	1.82	40.82	51.44	-10.62	peak
12	1980.120	29.00	1.82	30.82	51.44	-20.62	RMS

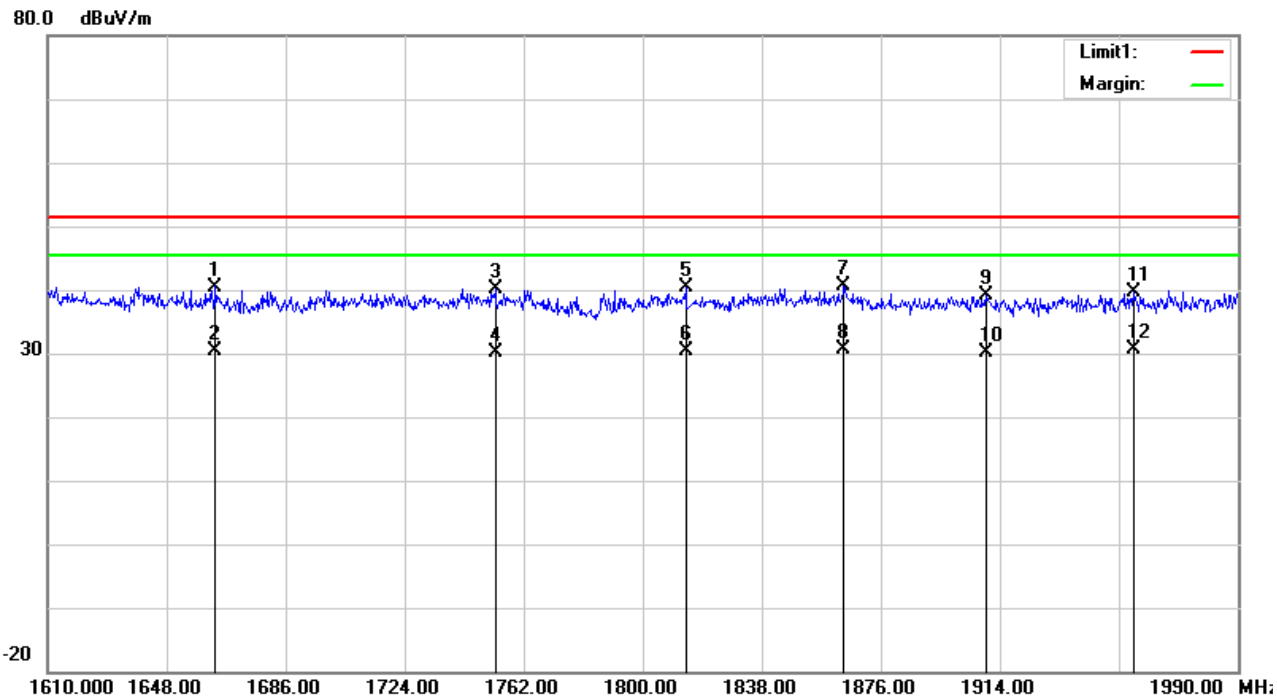
Remark:
3. Margin = Result (Result =Reading + Factor)–Limit
4. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Vertical
Test Mode:	CH 2(1610MHz – 1990MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1663.580	36.00	4.50	40.50	51.44	-10.94	peak
2	1663.580	26.00	4.50	30.50	51.44	-20.94	RMS
3	1752.880	36.59	3.56	40.15	51.44	-11.29	peak
4	1752.880	26.59	3.56	30.15	51.44	-21.29	RMS
5	1813.680	38.33	1.93	40.26	51.44	-11.18	peak
6	1813.680	28.33	1.93	30.26	51.44	-21.18	RMS
7	1864.220	38.55	2.10	40.65	51.44	-10.79	peak
8	1864.220	28.55	2.10	30.65	51.44	-20.79	RMS
9	1909.440	37.58	1.47	39.05	51.44	-12.39	peak
10	1909.440	28.58	1.47	30.05	51.44	-21.39	RMS
11	1956.560	38.16	1.58	39.74	51.44	-11.70	peak
12	1956.560	29.16	1.58	30.74	51.44	-20.70	RMS

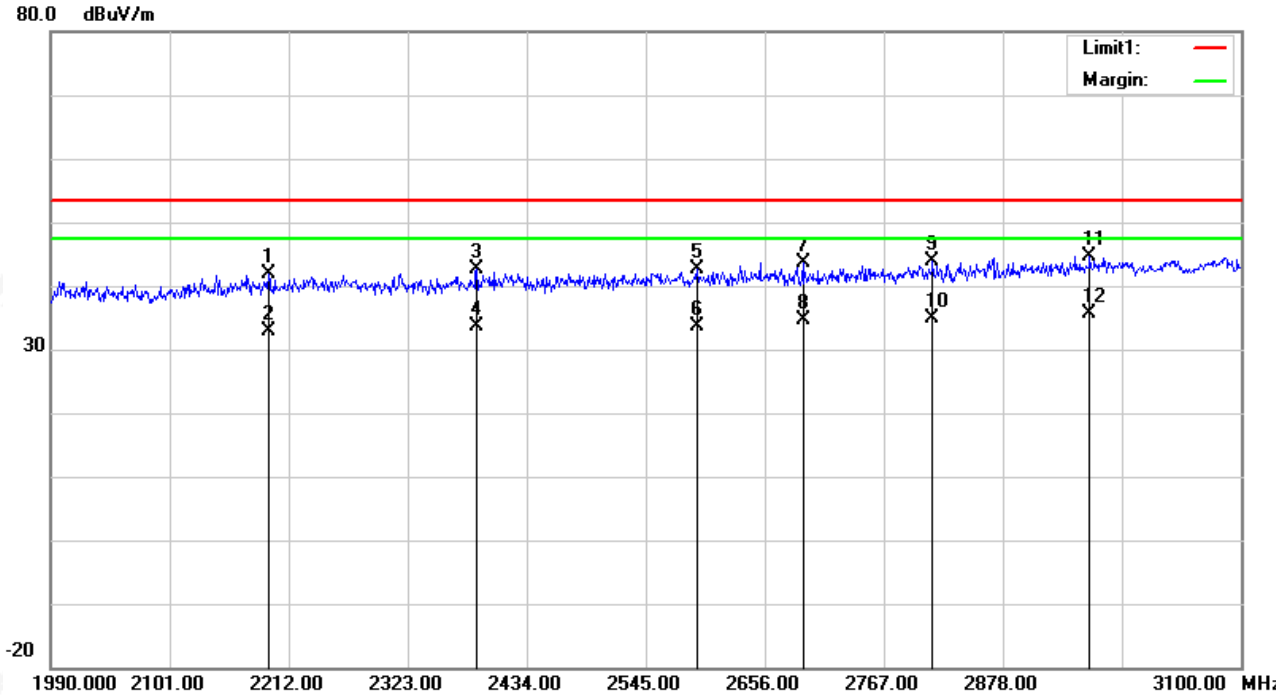
Remark:
3. Margin = Result (Result =Reading + Factor)–Limit
4. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Horizontal
Test Mode:	CH 2(1990MHz – 3100MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2193.130	38.95	2.98	41.93	53.44	-11.51	peak
2	2193.130	29.95	2.98	32.93	53.44	-20.51	RMS
3	2387.380	38.25	4.30	42.55	53.44	-10.89	peak
4	2387.380	29.25	4.30	33.55	53.44	-19.89	RMS
5	2592.730	37.61	5.02	42.63	53.44	-10.81	peak
6	2592.730	28.61	5.02	33.63	53.44	-19.81	RMS
7	2691.520	38.02	5.60	43.62	53.44	-9.82	peak
8	2691.520	29.02	5.60	34.62	53.44	-18.82	RMS
9	2812.510	37.63	6.32	43.95	53.44	-9.49	peak
10	2812.510	28.63	6.32	34.95	53.44	-18.49	RMS
11	2959.030	37.65	6.99	44.64	53.44	-8.80	peak
12	2959.030	28.65	6.99	35.64	53.44	-17.80	RMS

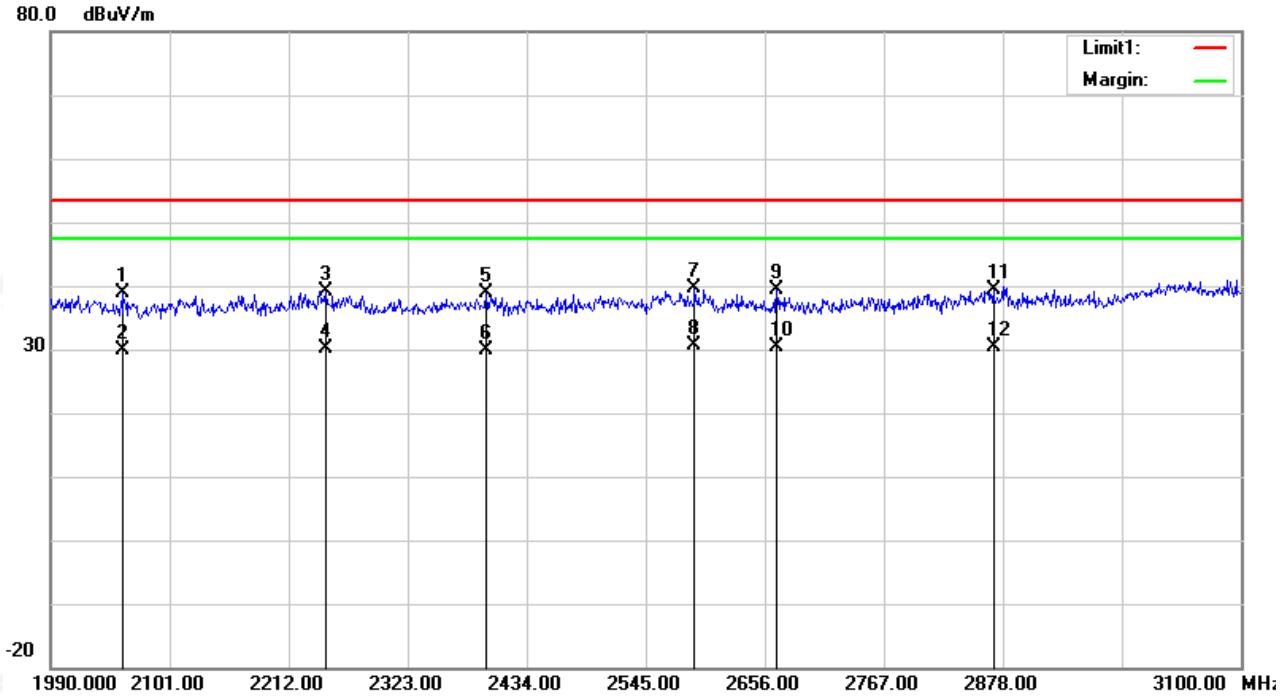
Remark:
3. Margin = Result (Result =Reading + Factor)–Limit
4. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Vertical
Test Mode:	CH 2(1990MHz – 3100MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2057.710	36.84	2.15	38.99	53.44	-14.45	peak
2	2057.710	27.84	2.15	29.99	53.44	-23.45	RMS
3	2246.410	35.43	3.71	39.14	53.44	-14.30	peak
4	2246.410	26.43	3.71	30.14	53.44	-23.30	RMS
5	2396.260	34.44	4.44	38.88	53.44	-14.56	peak
6	2396.260	25.44	4.44	29.88	53.44	-23.56	RMS
7	2590.510	34.51	5.02	39.53	53.44	-13.91	peak
8	2590.510	25.51	5.02	30.53	53.44	-22.91	RMS
9	2667.100	33.84	5.57	39.41	53.44	-14.03	peak
10	2667.100	24.84	5.57	30.41	53.44	-23.03	RMS
11	2869.120	32.73	6.62	39.35	53.44	-14.09	peak
12	2869.120	23.73	6.62	30.35	53.44	-23.09	RMS

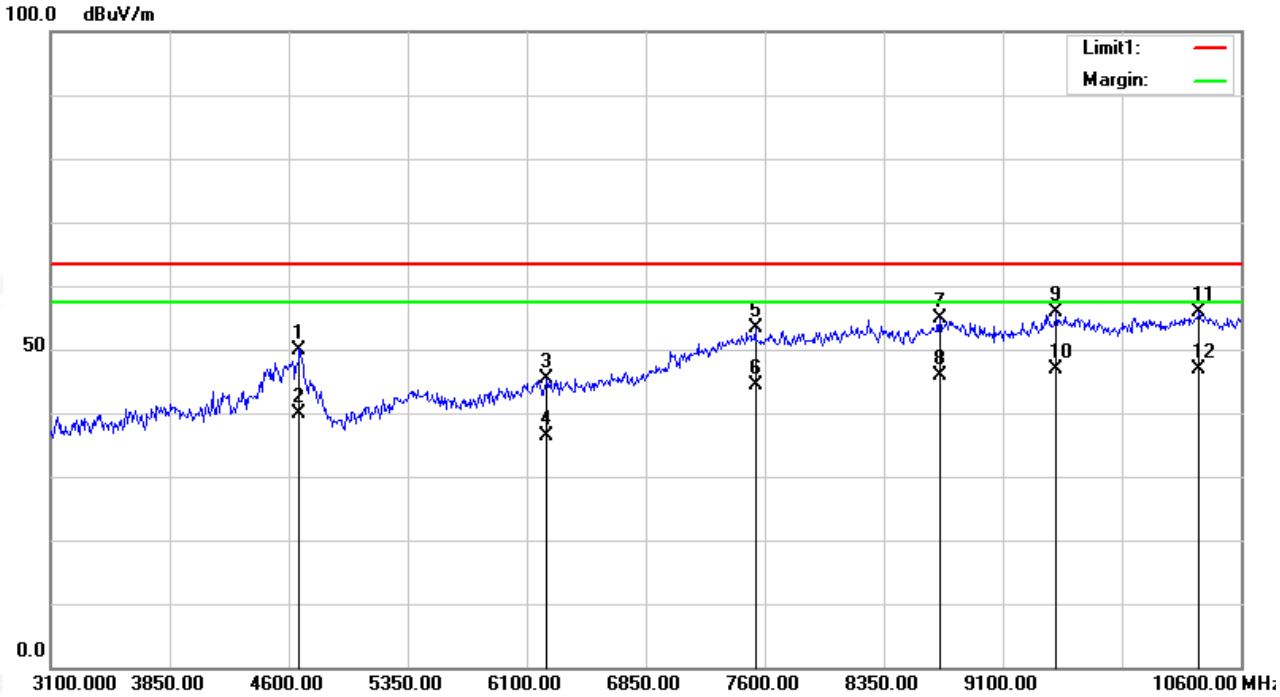
Remark:
3. Margin = Result (Result =Reading + Factor)–Limit
4. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Horizontal
Test Mode:	CH 2(3100MHz – 10600MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4667.500	57.52	-7.52	50.00	63.44	-13.44	peak
2	4667.500	47.52	-7.52	40.00	63.44	-23.44	RMS
3	6227.500	48.32	-3.02	45.30	63.44	-18.14	peak
4	6227.500	39.32	-3.02	36.30	63.44	-27.14	RMS
5	7540.000	51.76	1.67	53.43	63.44	-10.01	peak
6	7540.000	42.76	1.67	44.43	63.44	-19.01	RMS
7	8702.500	52.35	2.61	54.96	63.44	-8.48	peak
8	8702.500	43.35	2.61	45.96	63.44	-17.48	RMS
9	9437.500	52.71	3.06	55.77	63.44	-7.67	peak
10	9437.500	43.71	3.06	46.77	63.44	-16.67	RMS
11	10337.500	51.45	4.44	55.89	63.44	-7.55	peak
12	10337.500	42.45	4.44	46.89	63.44	-16.55	RMS

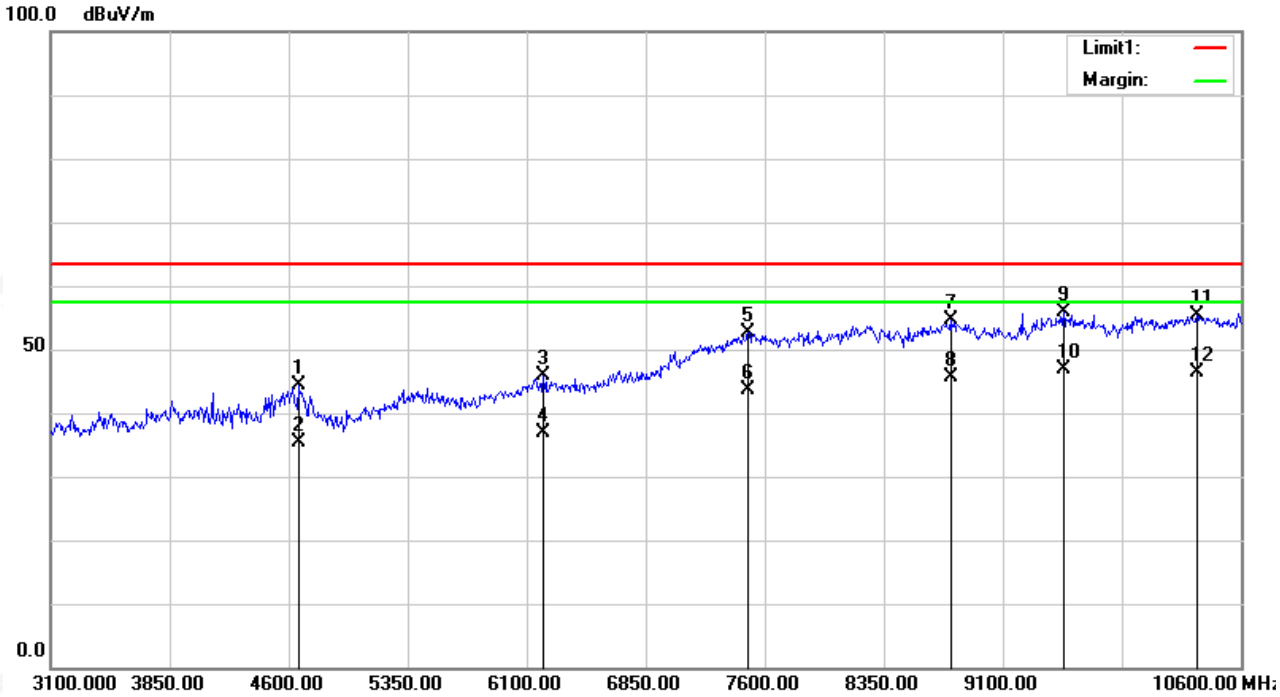
Remark:
3. Margin = Result (Result =Reading + Factor)–Limit
4. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Vertical
Test Mode:	CH 2(3100MHz – 10600MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4660.000	51.92	-7.56	44.36	63.44	-19.08	peak
2	4660.000	42.92	-7.56	35.36	63.44	-28.08	RMS
3	6205.000	49.02	-3.20	45.82	63.44	-17.62	peak
4	6205.000	40.02	-3.20	36.82	63.44	-26.62	RMS
5	7495.000	50.99	1.61	52.60	63.44	-10.84	peak
6	7495.000	41.99	1.61	43.60	63.44	-19.84	RMS
7	8770.000	52.06	2.58	54.64	63.44	-8.80	peak
8	8770.000	43.06	2.58	45.64	63.44	-17.80	RMS
9	9482.500	52.88	3.12	56.00	63.44	-7.44	peak
10	9482.500	43.88	3.12	47.00	63.44	-16.44	RMS
11	10322.500	50.98	4.40	55.38	63.44	-8.06	peak
12	10322.500	41.98	4.40	46.38	63.44	-17.06	RMS

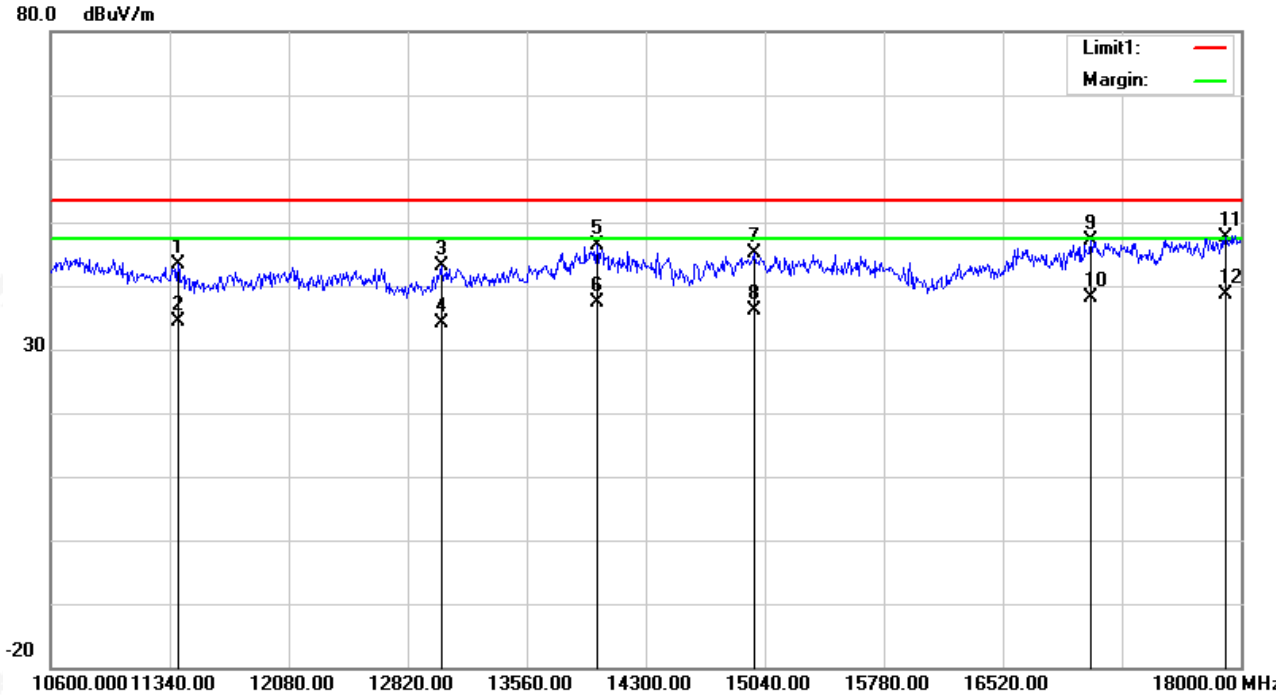
Remark:
3. Margin = Result (Result =Reading + Factor)–Limit
4. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Horizontal
Test Mode:	CH 2(10600MHz – 18000MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11391.800	36.90	6.39	43.29	53.44	-10.15	peak
2	11391.800	27.90	6.39	34.29	53.44	-19.15	RMS
3	13027.200	36.46	6.73	43.19	53.44	-10.25	peak
4	13027.200	27.46	6.73	34.19	53.44	-19.25	RMS
5	13996.600	33.96	12.30	46.26	53.44	-7.18	peak
6	13996.600	24.96	12.30	37.26	53.44	-16.18	RMS
7	14973.400	34.95	10.13	45.08	53.44	-8.36	peak
8	14973.400	25.95	10.13	36.08	53.44	-17.36	RMS
9	17067.600	37.30	9.93	47.23	53.44	-6.21	peak
10	17067.600	28.30	9.93	38.23	53.44	-15.21	RMS
11	17903.800	35.77	11.78	47.55	53.44	-5.89	peak
12	17903.800	26.77	11.78	38.55	53.44	-14.89	RMS

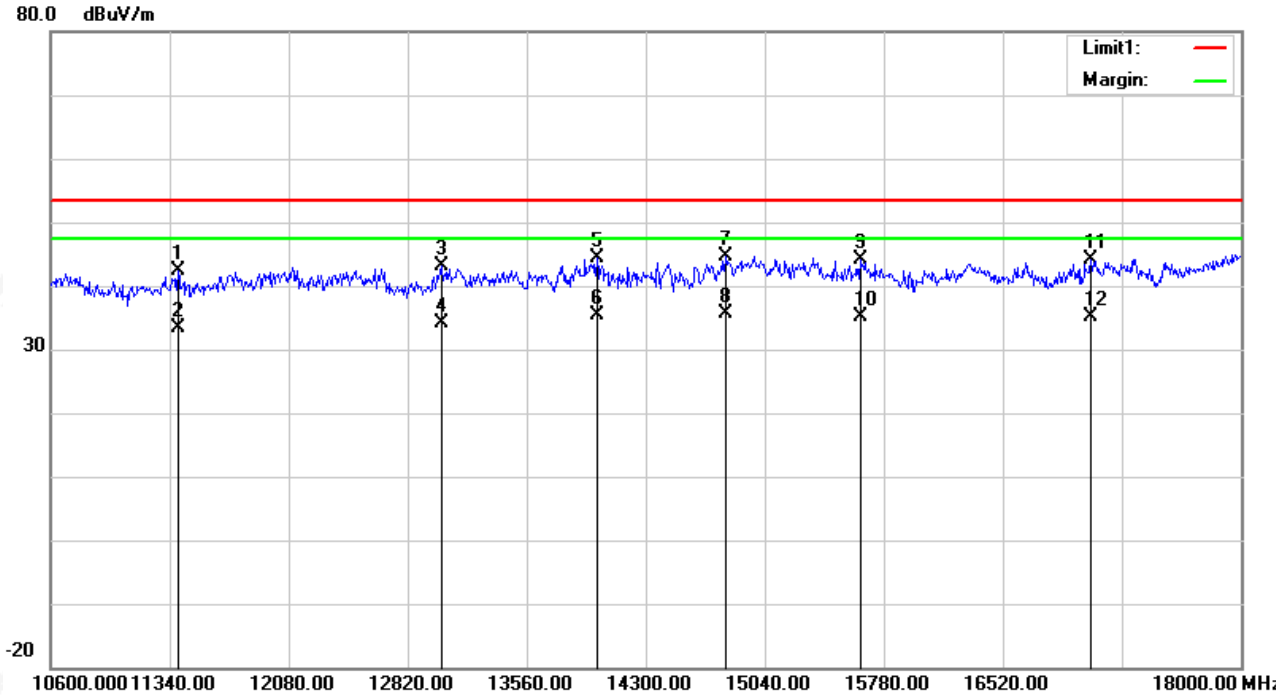
Remark:
3. Margin = Result (Result =Reading + Factor)–Limit
4. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Vertical
Test Mode:	CH 2(10600MHz – 18000MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11391.800	35.90	6.39	42.29	53.44	-11.15	peak
2	11391.800	26.90	6.39	33.29	53.44	-20.15	RMS
3	13027.200	36.46	6.73	43.19	53.44	-10.25	peak
4	13027.200	27.46	6.73	34.19	53.44	-19.25	RMS
5	13996.600	31.96	12.30	44.26	53.44	-9.18	peak
6	13996.600	22.96	12.30	35.26	53.44	-18.18	RMS
7	14795.800	34.07	10.62	44.69	53.44	-8.75	peak
8	14795.800	25.07	10.62	35.69	53.44	-17.75	RMS
9	15632.000	35.29	8.91	44.20	53.44	-9.24	peak
10	15632.000	26.29	8.91	35.20	53.44	-18.24	RMS
11	17067.600	34.30	9.93	44.23	53.44	-9.21	peak
12	17067.600	25.30	9.93	35.23	53.44	-18.21	RMS

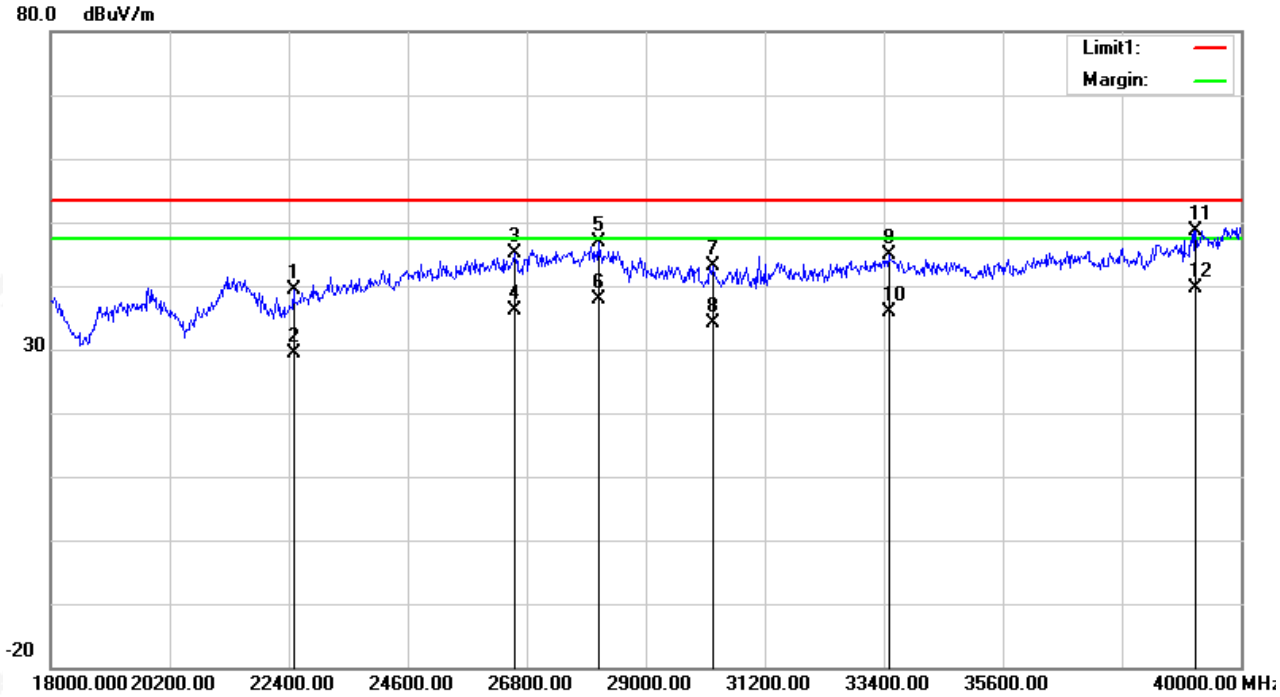
Remark:
3. Margin = Result (Result =Reading + Factor)–Limit
4. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Horizontal
Test Mode:	CH 2(18000MHz – 40000MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	22488.000	27.68	11.80	39.48	53.44	-13.96	peak
2	22488.000	17.68	11.80	29.48	53.44	-23.96	RMS
3	26580.000	26.85	18.36	45.21	53.44	-8.23	peak
4	26580.000	17.85	18.36	36.21	53.44	-17.23	RMS
5	28120.000	27.37	19.43	46.80	53.44	-6.64	peak
6	28120.000	18.37	19.43	37.80	53.44	-15.64	RMS
7	30232.000	27.27	15.88	43.15	53.44	-10.29	peak
8	30232.000	18.27	15.88	34.15	53.44	-19.29	RMS
9	33488.000	29.07	15.72	44.79	53.44	-8.65	peak
10	33488.000	20.07	15.72	35.79	53.44	-17.65	RMS
11	39164.000	30.42	18.29	48.71	53.44	-4.73	peak
12	39164.000	21.42	18.29	39.71	53.44	-13.73	RMS

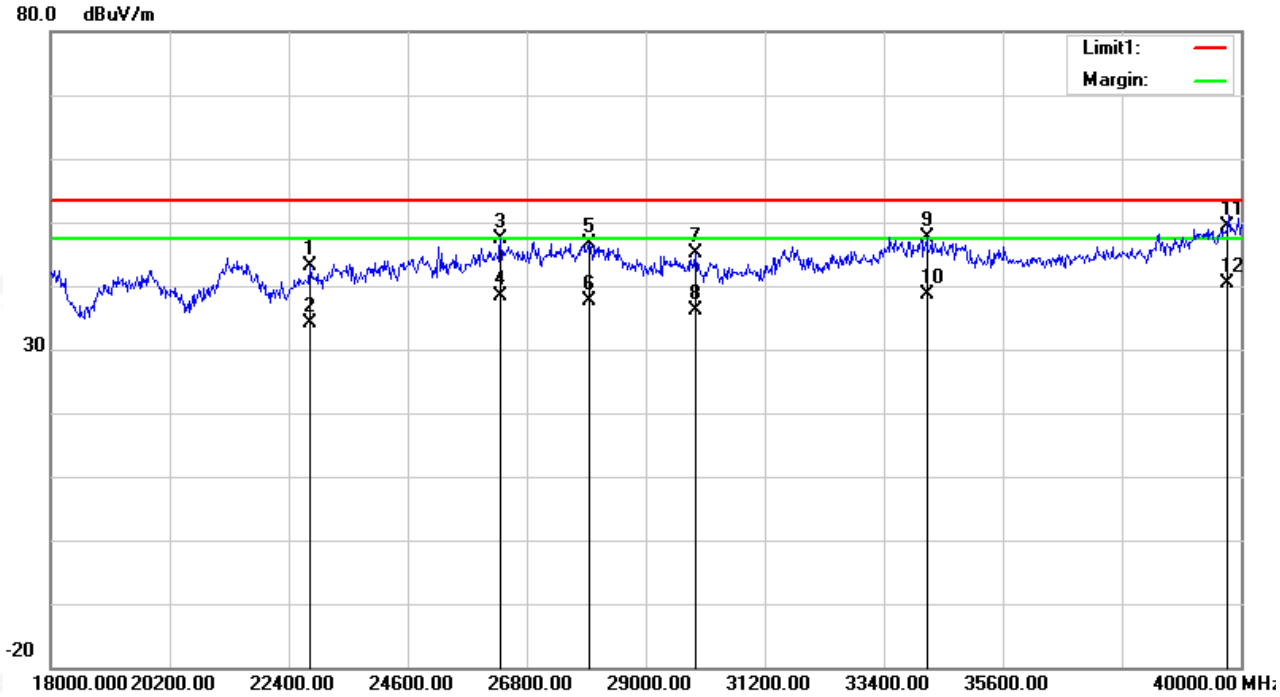
Remark:
3. Margin = Result (Result =Reading + Factor)–Limit
4. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Vertical
Test Mode:	CH 2(18000MHz – 40000MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	22796.000	29.55	13.65	43.20	53.44	-10.24	peak
2	22796.000	20.55	13.65	34.20	53.44	-19.24	RMS
3	26316.000	29.18	18.13	47.31	53.44	-6.13	peak
4	26316.000	20.18	18.13	38.31	53.44	-15.13	RMS
5	27944.000	27.05	19.60	46.65	53.44	-6.79	peak
6	27944.000	18.05	19.60	37.65	53.44	-15.79	RMS
7	29924.000	28.95	16.07	45.02	53.44	-8.42	peak
8	29924.000	19.95	16.07	36.02	53.44	-17.42	RMS
9	34192.000	31.85	15.89	47.74	53.44	-5.70	peak
10	34192.000	22.85	15.89	38.74	53.44	-14.70	RMS
11	39758.000	30.76	18.62	49.38	53.44	-4.06	peak
12	39758.000	21.76	18.62	40.38	53.44	-13.06	RMS

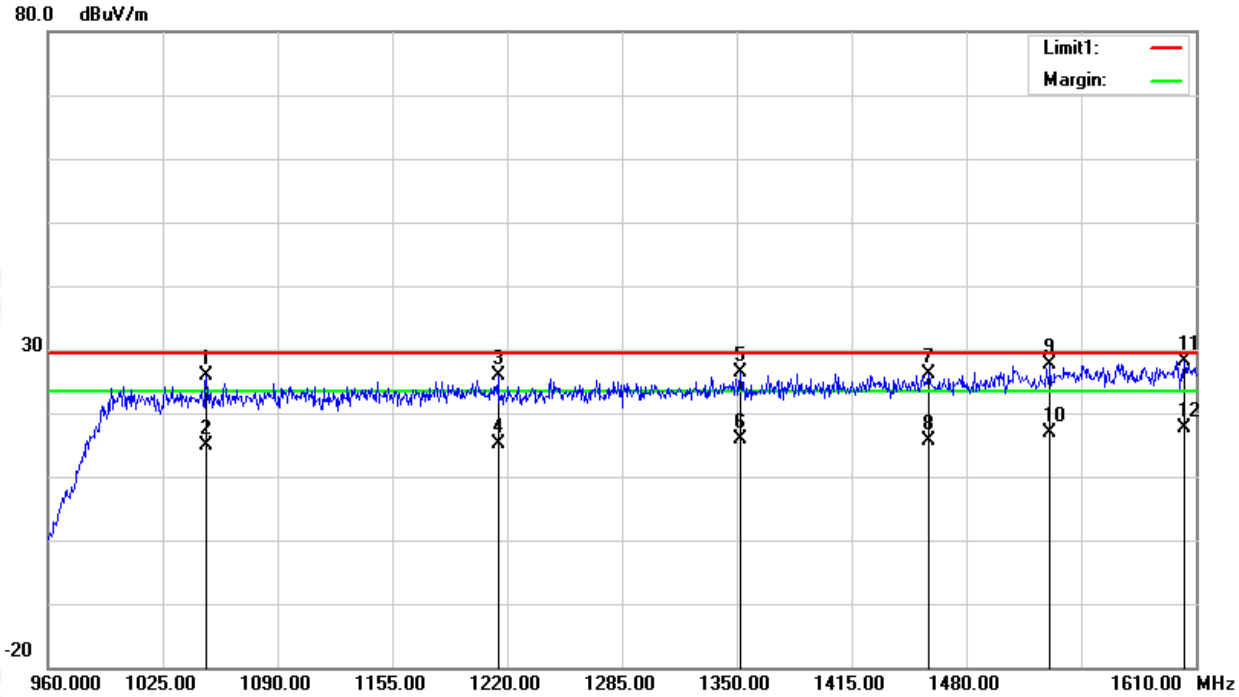
Remark:
3. Margin = Result (Result =Reading + Factor)–Limit
4. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Horizontal
Test Mode:	CH 3(960MHz -1610MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1049.700	27.14	-1.37	25.77	29.44	-3.67	peak
2	1049.700	16.26	-1.37	14.89	29.44	-14.55	RMS
3	1214.800	26.44	-0.44	26.00	29.44	-3.44	peak
4	1214.800	15.69	-0.44	15.25	29.44	-14.19	RMS
5	1351.950	26.22	0.07	26.29	29.44	-3.15	peak
6	1351.950	15.88	0.07	15.95	29.44	-13.49	RMS
7	1458.550	25.08	0.99	26.07	29.44	-3.37	peak
8	1458.550	14.75	0.99	15.74	29.44	-13.70	RMS
9	1527.450	25.43	2.13	27.56	29.44	-1.88	peak
10	1527.450	14.72	2.13	16.85	29.44	-12.59	RMS
11	1603.500	24.00	4.24	28.24	29.44	-1.20	peak
12	1603.500	13.40	4.24	17.64	29.44	-11.80	RMS

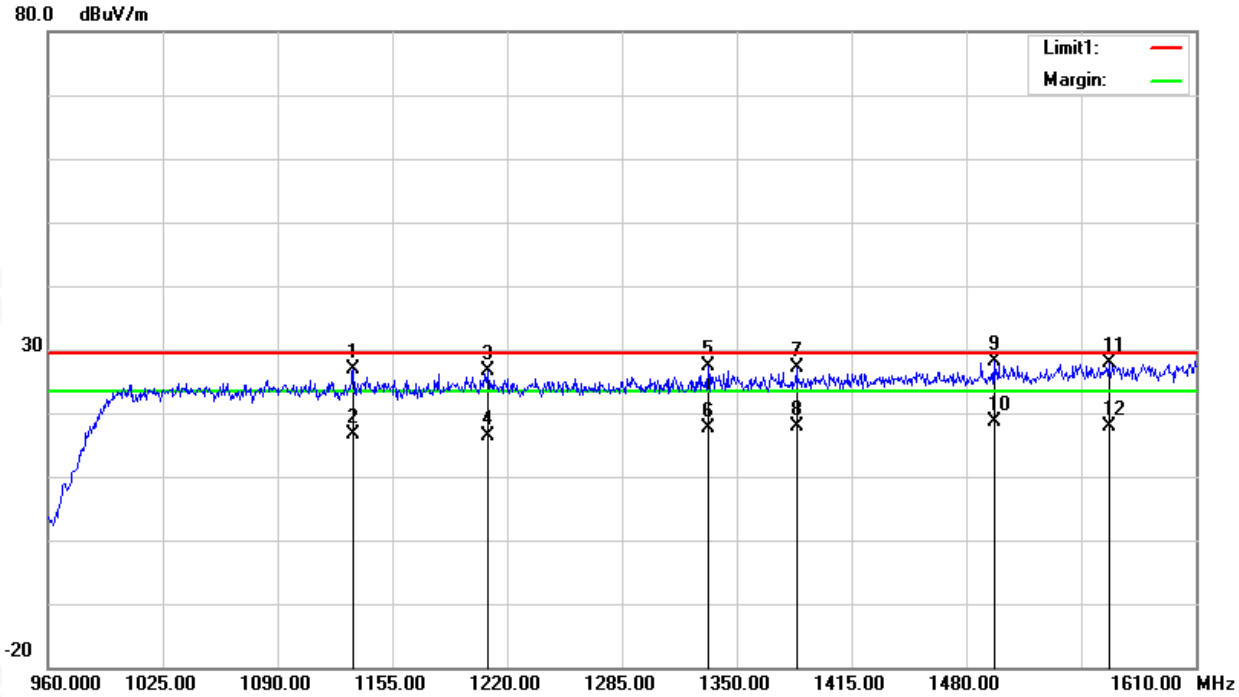
Remark:
5. Margin = Result (Result =Reading + Factor)–Limit
6. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Vertical
Test Mode:	CH 3(960MHz -1610MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1132.900	27.97	-0.97	27.00	29.44	-2.44	peak
2	1132.900	17.51	-0.97	16.54	29.44	-12.90	RMS
3	1208.950	27.12	-0.43	26.69	29.44	-2.75	peak
4	1208.950	16.71	-0.43	16.28	29.44	-13.16	RMS
5	1333.750	27.27	-0.01	27.26	29.44	-2.18	peak
6	1333.750	17.65	-0.01	17.64	29.44	-11.80	RMS
7	1383.800	26.82	0.20	27.02	29.44	-2.42	peak
8	1383.800	17.65	0.20	17.85	29.44	-11.59	RMS
9	1495.600	26.69	1.42	28.11	29.44	-1.33	peak
10	1495.600	17.18	1.42	18.60	29.44	-10.84	RMS
11	1560.600	24.99	3.00	27.99	29.44	-1.45	peak
12	1560.600	14.96	3.00	17.96	29.44	-11.48	RMS

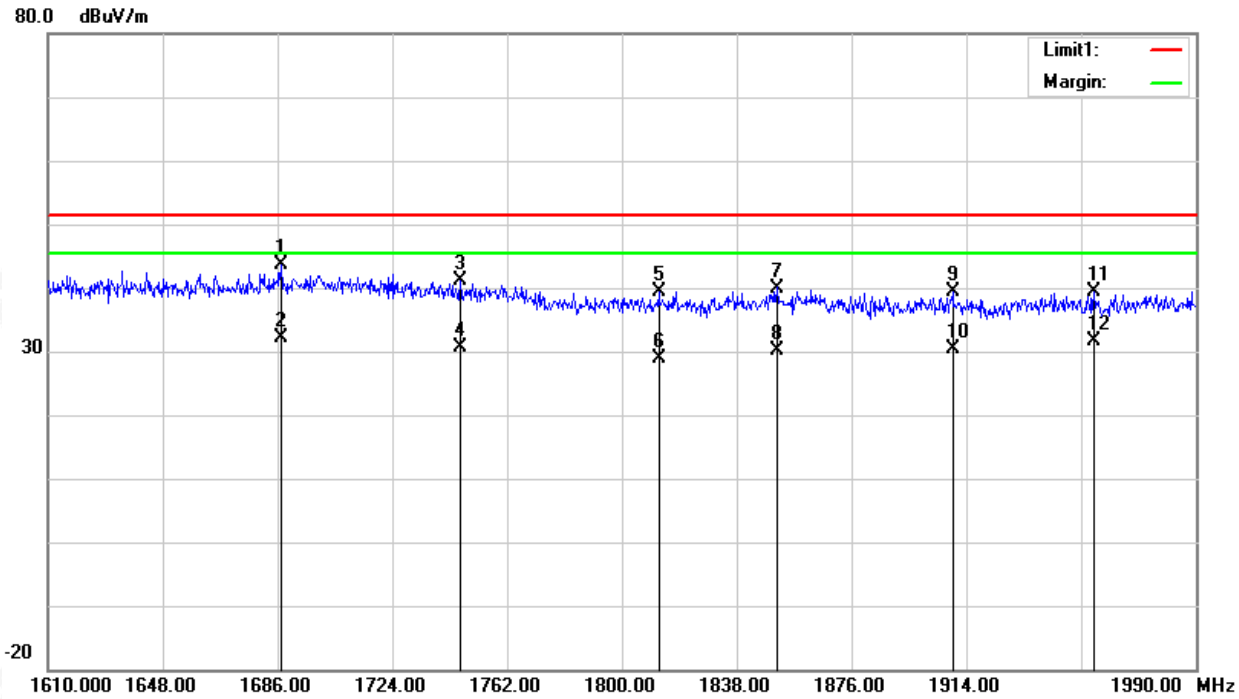
Remark:
5. Margin = Result (Result =Reading + Factor)–Limit
6. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Horizontal
Test Mode:	CH 3(1610MHz – 1990MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1687.140	38.67	4.96	43.63	51.44	-7.81	peak
2	1687.140	27.22	4.96	32.18	51.44	-19.26	RMS
3	1746.420	37.42	3.77	41.19	51.44	-10.25	peak
4	1746.420	26.75	3.77	30.52	51.44	-20.92	RMS
5	1812.160	37.47	1.91	39.38	51.44	-12.06	peak
6	1812.160	27.05	1.91	28.96	51.44	-22.48	RMS
7	1851.300	37.67	2.33	40.00	51.44	-11.44	peak
8	1851.300	27.92	2.33	30.25	51.44	-21.19	RMS
9	1909.440	37.84	1.47	39.31	51.44	-12.13	peak
10	1909.440	29.00	1.47	30.47	51.44	-20.97	RMS
11	1956.180	37.90	1.58	39.48	51.44	-11.96	peak
12	1956.180	30.00	1.58	31.58	51.44	-19.86	RMS

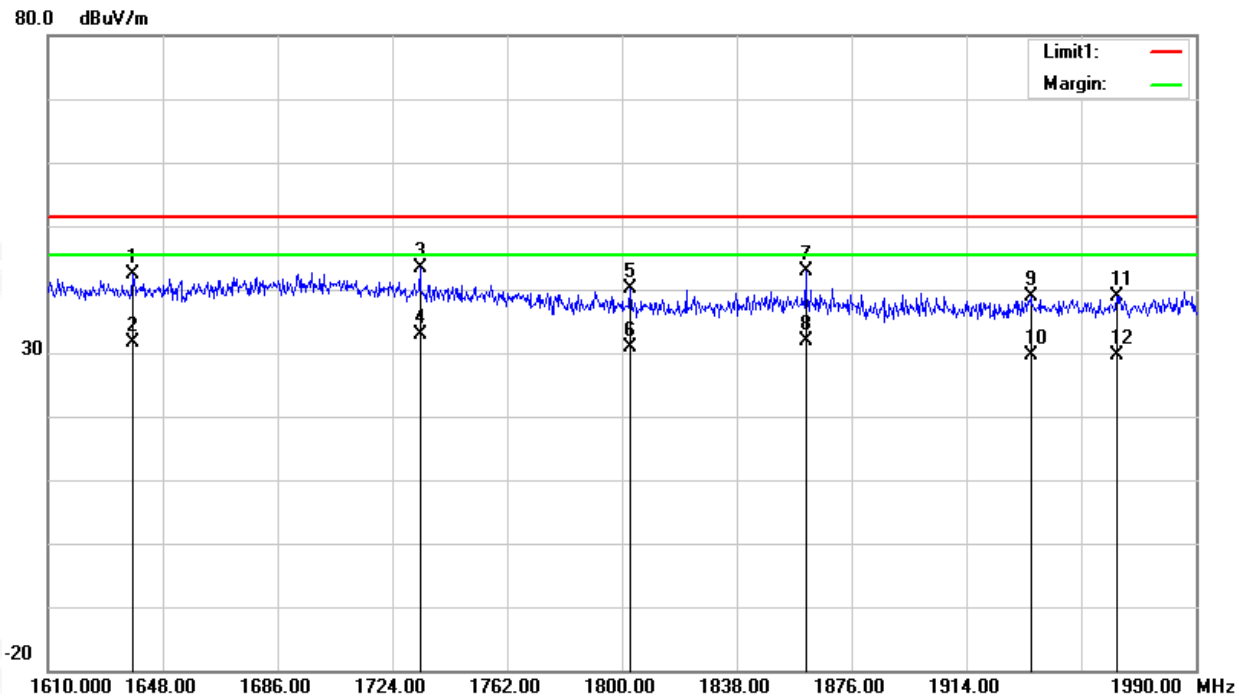
Remark:
5. Margin = Result (Result =Reading + Factor)–Limit
6. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Vertical
Test Mode:	CH 3(1610MHz – 1990MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1638.120	38.03	4.24	42.27	51.44	-9.17	peak
2	1638.120	27.34	4.24	31.58	51.44	-19.86	RMS
3	1733.120	39.12	4.19	43.31	51.44	-8.13	peak
4	1733.120	28.59	4.19	32.78	51.44	-18.66	RMS
5	1802.660	38.43	1.80	40.23	51.44	-11.21	peak
6	1802.660	29.05	1.80	30.85	51.44	-20.59	RMS
7	1860.800	40.63	2.16	42.79	51.44	-8.65	peak
8	1860.800	29.69	2.16	31.85	51.44	-19.59	RMS
9	1935.280	37.48	1.51	38.99	51.44	-12.45	peak
10	1935.280	28.01	1.51	29.52	51.44	-21.92	RMS
11	1963.780	37.33	1.66	38.99	51.44	-12.45	peak
12	1963.780	28.08	1.66	29.74	51.44	-21.70	RMS

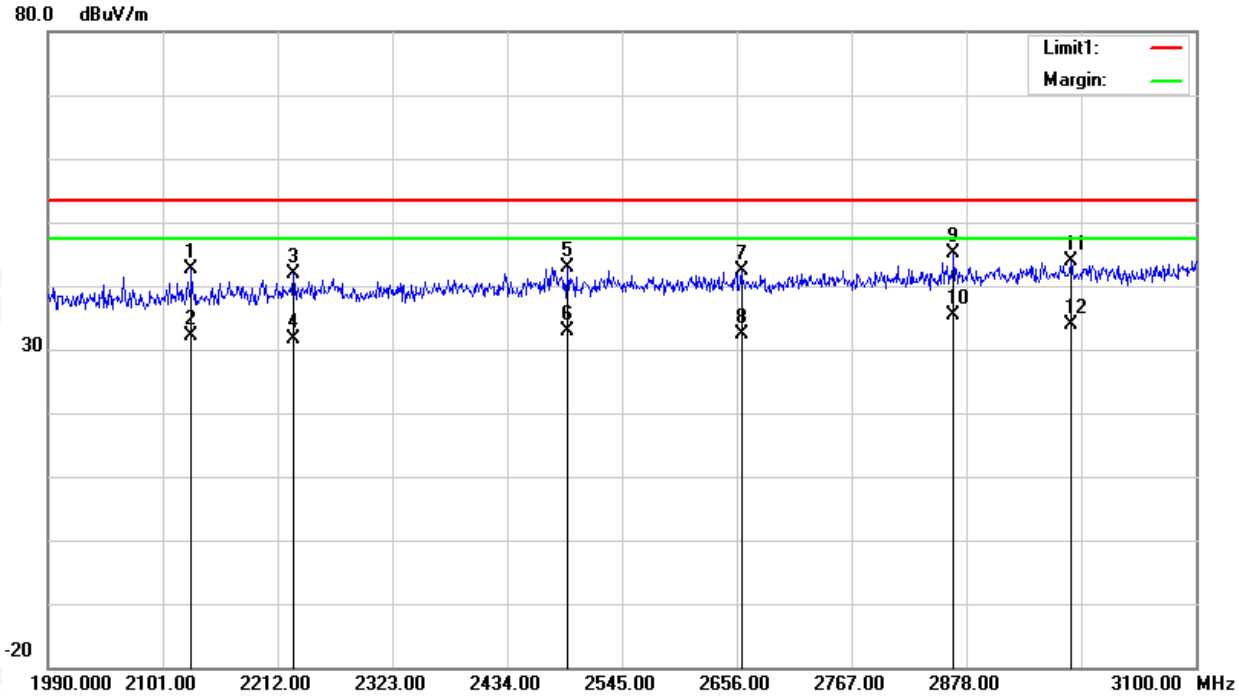
Remark:
5. Margin = Result (Result =Reading + Factor)–Limit
6. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Horizontal
Test Mode:	CH 3(1990MHz – 3100MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2128.750	39.78	2.92	42.70	53.44	-10.74	peak
2	2128.750	29.23	2.92	32.15	53.44	-21.29	RMS
3	2227.540	38.38	3.39	41.77	53.44	-11.67	peak
4	2227.540	28.19	3.39	31.58	53.44	-21.86	RMS
5	2492.830	38.24	4.64	42.88	53.44	-10.56	peak
6	2492.830	28.31	4.64	32.95	53.44	-20.49	RMS
7	2660.440	36.83	5.56	42.39	53.44	-11.05	peak
8	2660.440	26.89	5.56	32.45	53.44	-20.99	RMS
9	2865.790	38.43	6.61	45.04	53.44	-8.40	peak
10	2865.790	28.81	6.61	35.42	53.44	-18.02	RMS
11	2979.010	36.90	7.01	43.91	53.44	-9.53	peak
12	2979.010	26.90	7.01	33.91	53.44	-19.53	RMS

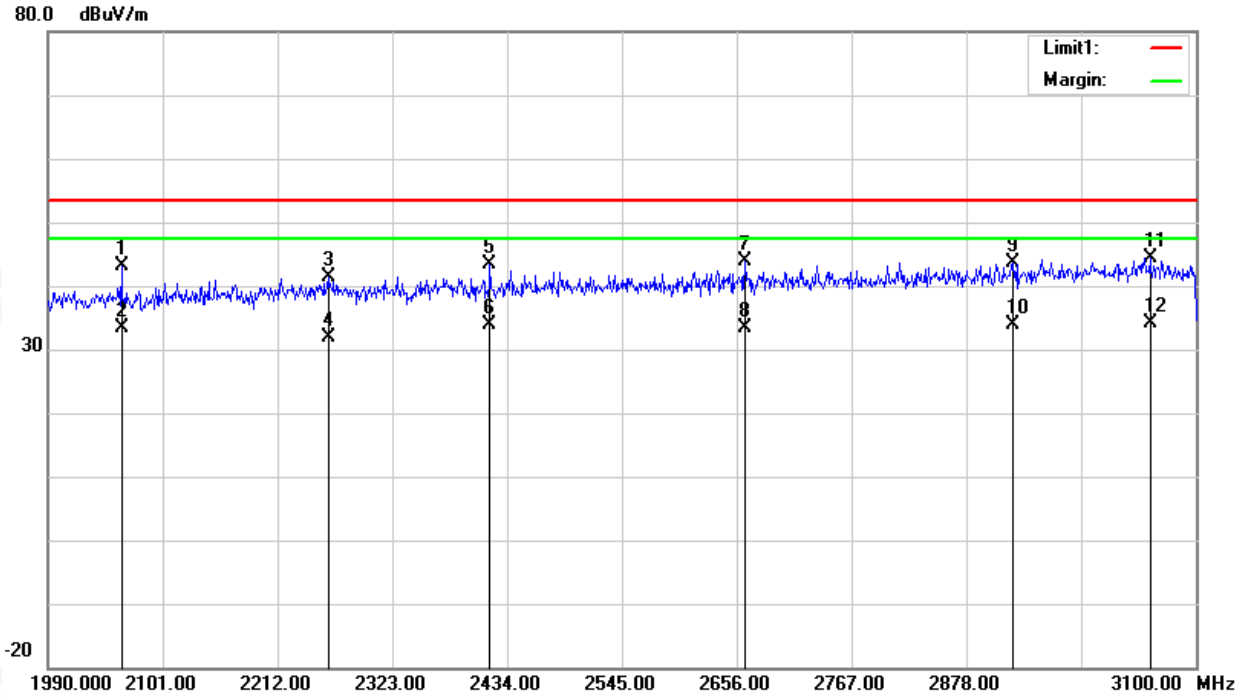
Remark:
5. Margin = Result (Result =Reading + Factor)–Limit
6. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Vertical
Test Mode:	CH 3(1990MHz – 3100MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2061.040	40.97	2.17	43.14	53.44	-10.30	peak
2	2061.040	31.28	2.17	33.45	53.44	-19.99	RMS
3	2260.840	37.55	3.71	41.26	53.44	-12.18	peak
4	2260.840	28.14	3.71	31.85	53.44	-21.59	RMS
5	2417.350	38.91	4.50	43.41	53.44	-10.03	peak
6	2417.350	29.46	4.50	33.96	53.44	-19.48	RMS
7	2663.770	38.42	5.57	43.99	53.44	-9.45	peak
8	2663.770	27.92	5.57	33.49	53.44	-19.95	RMS
9	2923.510	36.84	6.84	43.68	53.44	-9.76	peak
10	2923.510	27.01	6.84	33.85	53.44	-19.59	RMS
11	3055.600	16.14	28.23	44.37	53.44	-9.07	peak
12	3055.600	5.95	28.23	34.18	53.44	-19.26	RMS

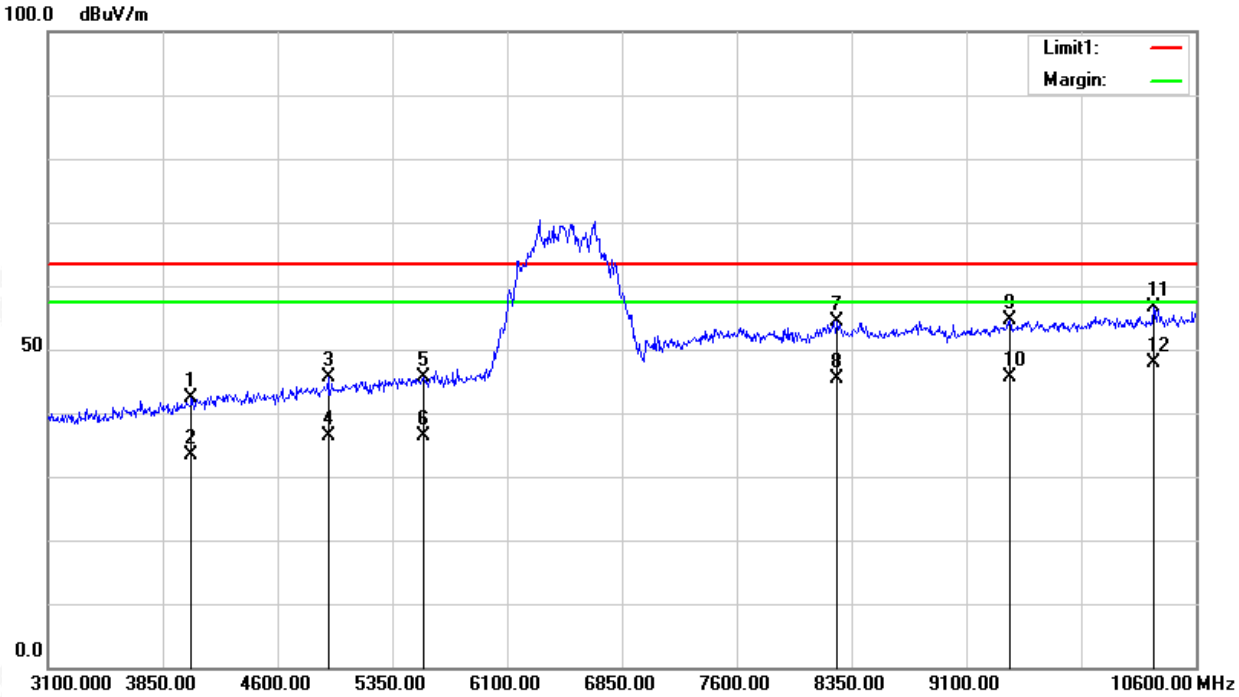
Remark:
5. Margin = Result (Result =Reading + Factor)–Limit
6. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Horizontal
Test Mode:	CH 3(3100MHz – 10600MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4037.500	51.92	-9.44	42.48	63.44	-20.96	peak
2	4037.500	42.89	-9.44	33.45	63.44	-29.99	RMS
3	4930.000	52.16	-6.65	45.51	63.44	-17.93	peak
4	4930.000	43.13	-6.65	36.48	63.44	-26.96	RMS
5	5552.500	50.40	-4.86	45.54	63.44	-17.90	peak
6	5552.500	41.34	-4.86	36.48	63.44	-26.96	RMS
7	8252.500	51.87	2.45	54.32	63.44	-9.12	peak
8	8252.500	42.82	2.45	45.27	63.44	-18.17	RMS
9	9385.000	51.70	2.98	54.68	63.44	-8.76	peak
10	9385.000	42.64	2.98	45.62	63.44	-17.82	RMS
11	10322.500	52.32	4.40	56.72	63.44	-6.72	peak
12	10322.500	43.45	4.40	47.85	63.44	-15.59	RMS

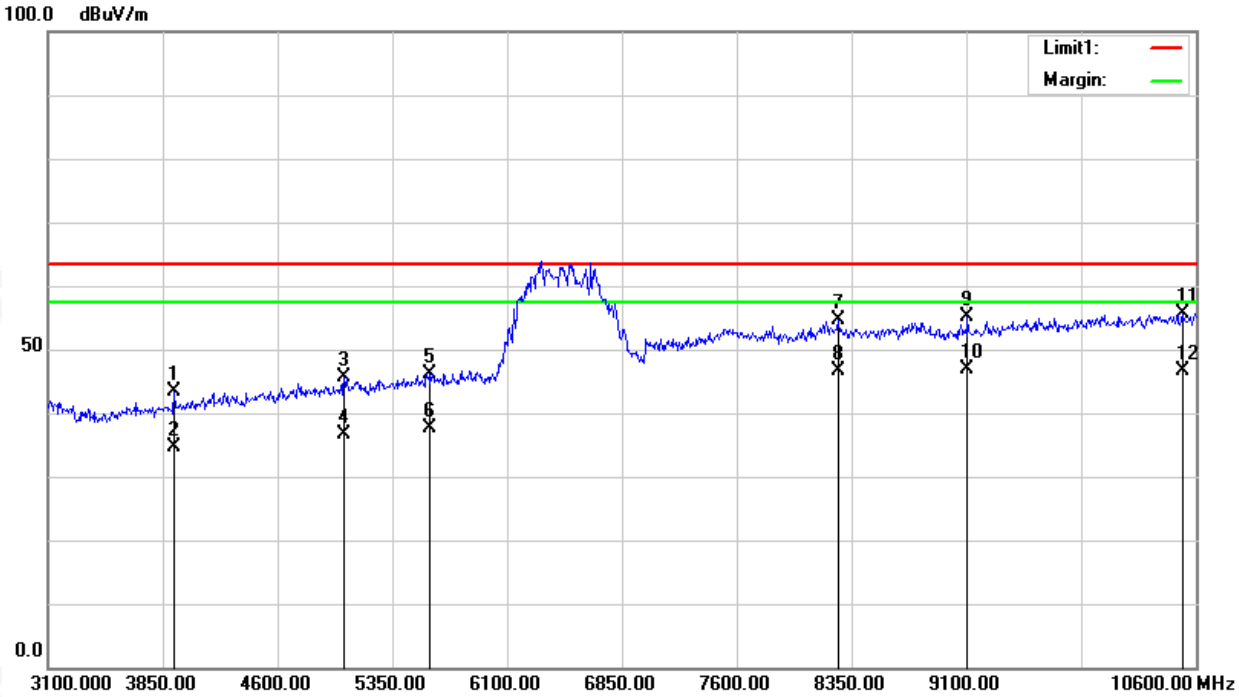
Remark:
5. Margin = Result (Result =Reading + Factor)–Limit
6. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Vertical
Test Mode:	CH 3(3100MHz – 10600MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3925.000	53.41	-10.03	43.38	63.44	-20.06	peak
2	3925.000	44.55	-10.03	34.52	63.44	-28.92	RMS
3	5035.000	51.78	-6.03	45.75	63.44	-17.69	peak
4	5035.000	42.54	-6.03	36.51	63.44	-26.93	RMS
5	5590.000	50.98	-4.74	46.24	63.44	-17.20	peak
6	5590.000	42.25	-4.74	37.51	63.44	-25.93	RMS
7	8260.000	52.16	2.45	54.61	63.44	-8.83	peak
8	8260.000	44.09	2.45	46.54	63.44	-16.90	RMS
9	9107.500	52.40	2.61	55.01	63.44	-8.43	peak
10	9107.500	44.21	2.61	46.82	63.44	-16.62	RMS
11	10510.000	50.71	4.99	55.70	63.44	-7.74	peak
12	10510.000	41.72	4.99	46.71	63.44	-16.73	RMS

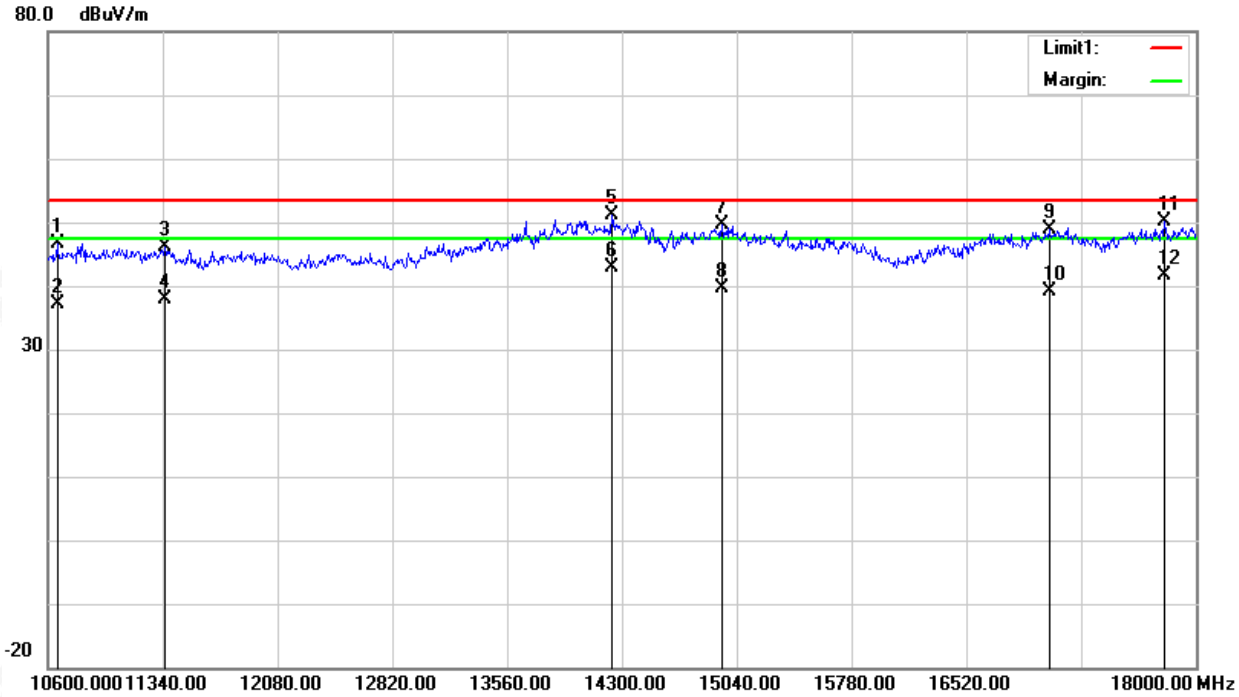
Remark:
5. Margin = Result (Result =Reading + Factor)–Limit
6. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Horizontal
Test Mode:	CH 3(10600MHz – 18000MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10659.200	41.26	5.39	46.65	53.44	-6.79	peak
2	10659.200	31.71	5.39	37.10	53.44	-16.34	RMS
3	11354.800	39.76	6.37	46.13	53.44	-7.31	peak
4	11354.800	31.48	6.37	37.85	53.44	-15.59	RMS
5	14233.400	39.33	11.90	51.23	53.44	-2.21	peak
6	14233.400	30.95	11.90	42.85	53.44	-10.59	RMS
7	14943.800	39.52	10.21	49.73	53.44	-3.71	peak
8	14943.800	29.38	10.21	39.59	53.44	-13.85	RMS
9	17052.800	38.36	10.54	48.90	53.44	-4.54	peak
10	17052.800	28.61	10.54	39.15	53.44	-14.29	RMS
11	17792.800	29.19	20.99	50.18	53.44	-3.26	peak
12	17792.800	20.53	20.99	41.52	53.44	-11.92	RMS

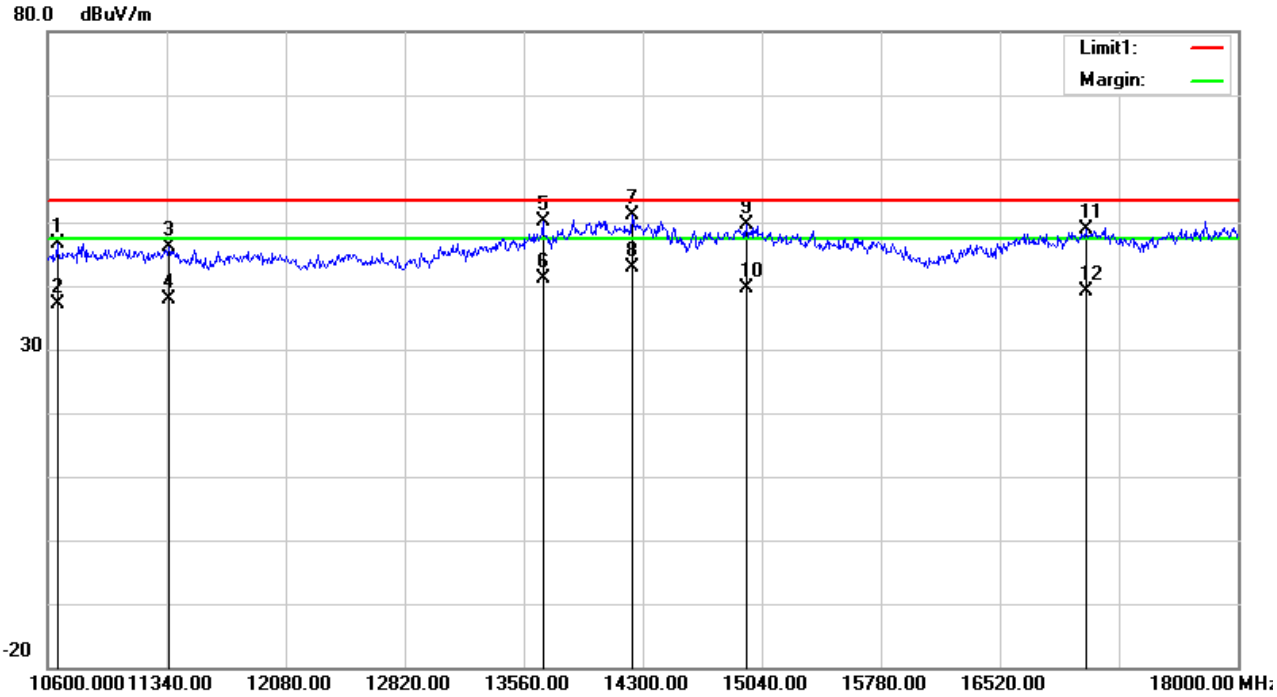
Remark:
5. Margin = Result (Result =Reading + Factor)–Limit
6. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Vertical
Test Mode:	CH 3(10600MHz – 18000MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10659.200	41.26	5.39	46.65	53.44	-6.79	peak
2	10659.200	31.71	5.39	37.10	53.44	-16.34	RMS
3	11354.800	39.76	6.37	46.13	53.44	-7.31	peak
4	11354.800	31.48	6.37	37.85	53.44	-15.59	RMS
5	13678.400	39.67	10.57	50.24	53.44	-3.20	peak
6	13678.400	30.67	10.57	41.24	53.44	-12.20	RMS
7	14233.400	39.33	11.90	51.23	53.44	-2.21	peak
8	14233.400	30.95	11.90	42.85	53.44	-10.59	RMS
9	14943.800	39.52	10.21	49.73	53.44	-3.71	peak
10	14943.800	29.38	10.21	39.59	53.44	-13.85	RMS
11	17052.800	38.36	10.54	48.90	53.44	-4.54	peak
12	17052.800	28.61	10.54	39.15	53.44	-14.29	RMS

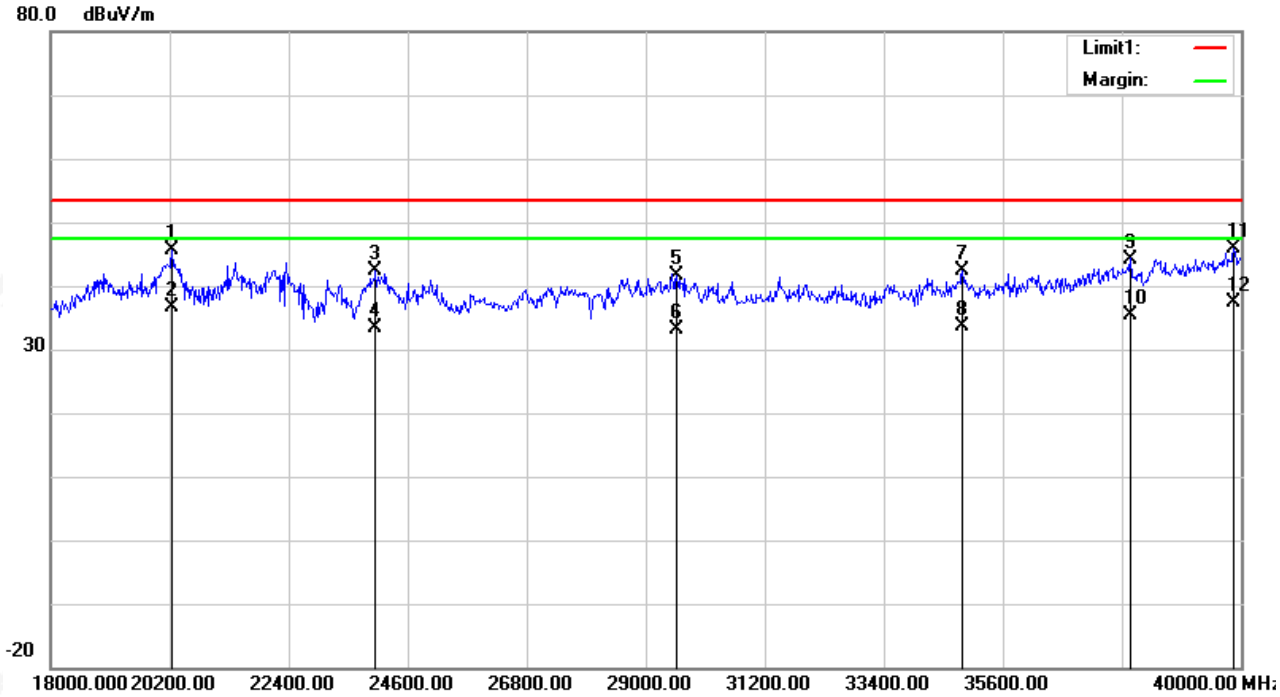
Remark:
5. Margin = Result (Result =Reading + Factor)–Limit
6. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Horizontal
Test Mode:	CH 3(18000MHz – 40000MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	20244.000	32.91	12.67	45.58	53.44	-7.86	peak
2	20244.000	23.91	12.67	36.58	53.44	-16.86	RMS
3	24006.000	26.13	16.13	42.26	53.44	-11.18	peak
4	24006.000	17.13	16.13	33.26	53.44	-20.18	RMS
5	29572.000	25.00	16.72	41.72	53.44	-11.72	peak
6	29572.000	16.50	16.72	33.22	53.44	-20.22	RMS
7	34852.000	26.18	16.17	42.35	53.44	-11.09	peak
8	34852.000	17.48	16.17	33.65	53.44	-19.79	RMS
9	37954.000	26.61	17.64	44.25	53.44	-9.19	peak
10	37954.000	17.75	17.64	35.39	53.44	-18.05	RMS
11	39868.000	27.08	18.68	45.76	53.44	-7.68	peak
12	39868.000	18.80	18.68	37.48	53.44	-15.96	RMS

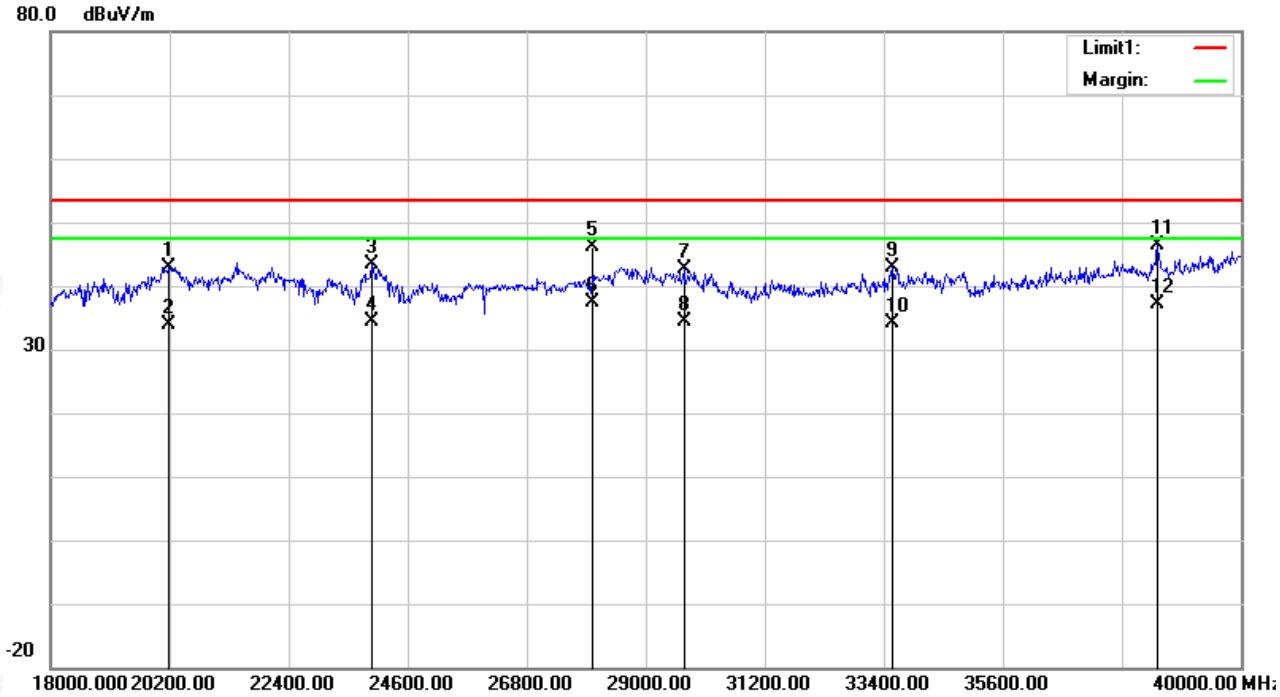
Remark:
5. Margin = Result (Result =Reading + Factor)–Limit
6. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Vertical
Test Mode:	CH 3(18000MHz – 40000MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	20178.000	29.63	13.28	42.91	53.44	-10.53	peak
2	20178.000	20.63	13.28	33.91	53.44	-19.53	RMS
3	23940.000	27.23	16.05	43.28	53.44	-10.16	peak
4	23940.000	18.23	16.05	34.28	53.44	-19.16	RMS
5	28010.000	26.50	19.64	46.14	53.44	-7.30	peak
6	28010.000	17.75	19.64	37.39	53.44	-16.05	RMS
7	29704.000	26.16	16.48	42.64	53.44	-10.80	peak
8	29704.000	17.82	16.48	34.30	53.44	-19.14	RMS
9	33554.000	27.14	15.73	42.87	53.44	-10.57	peak
10	33554.000	18.48	15.73	34.21	53.44	-19.23	RMS
11	38460.000	28.35	17.91	46.26	53.44	-7.18	peak
12	38460.000	19.28	17.91	37.19	53.44	-16.25	RMS

Remark:
5. Margin = Result (Result =Reading + Factor)–Limit
6. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain

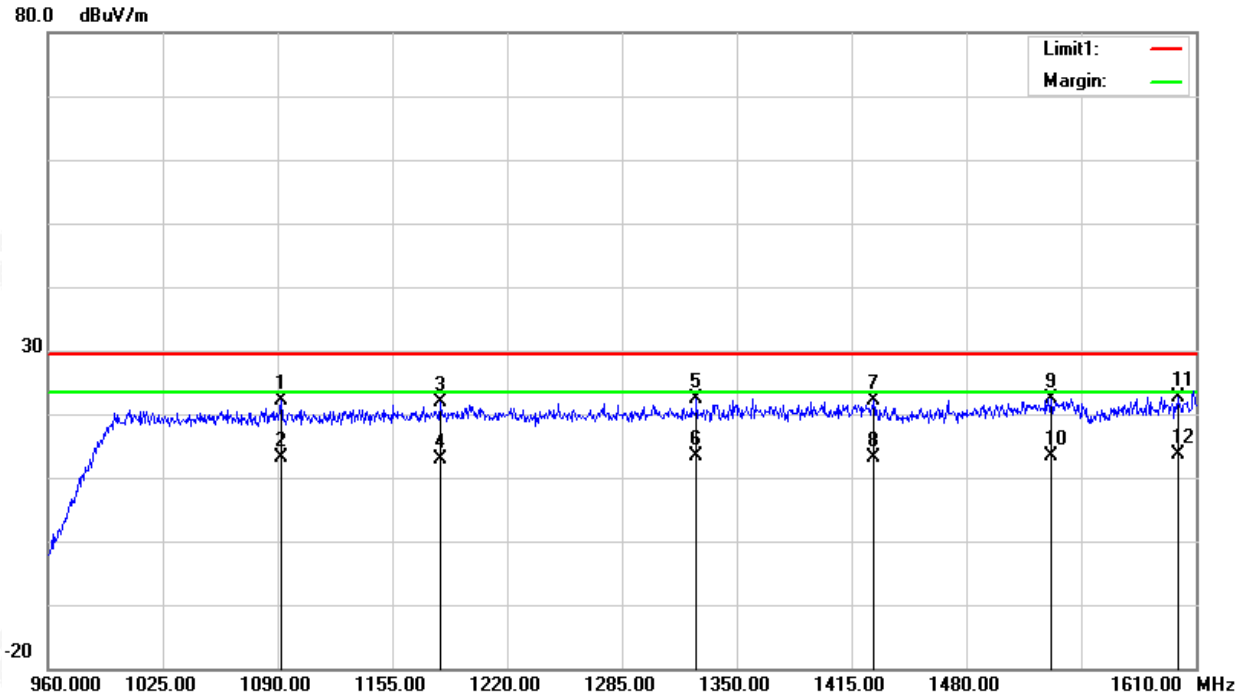


IC:

Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Horizontal
Test Mode:	CH 1(960MHz -1610MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1091.950	23.24	-1.12	22.12	29.44	-7.32	peak
2	1091.950	14.24	-1.12	13.12	29.44	-16.32	RMS
3	1182.300	22.53	-0.60	21.93	29.44	-7.51	peak
4	1182.300	13.53	-0.60	12.93	29.44	-16.51	RMS
5	1327.250	22.36	-0.03	22.33	29.44	-7.11	peak
6	1327.250	13.36	-0.03	13.33	29.44	-16.11	RMS
7	1427.350	21.42	0.61	22.03	29.44	-7.41	peak
8	1427.350	12.42	0.61	13.03	29.44	-16.41	RMS
9	1528.100	20.14	2.15	22.29	29.44	-7.15	peak
10	1528.100	11.14	2.15	13.29	29.44	-16.15	RMS
11	1599.600	18.51	4.23	22.74	29.44	-6.70	peak
12	1599.600	9.51	4.23	13.74	29.44	-15.70	RMS

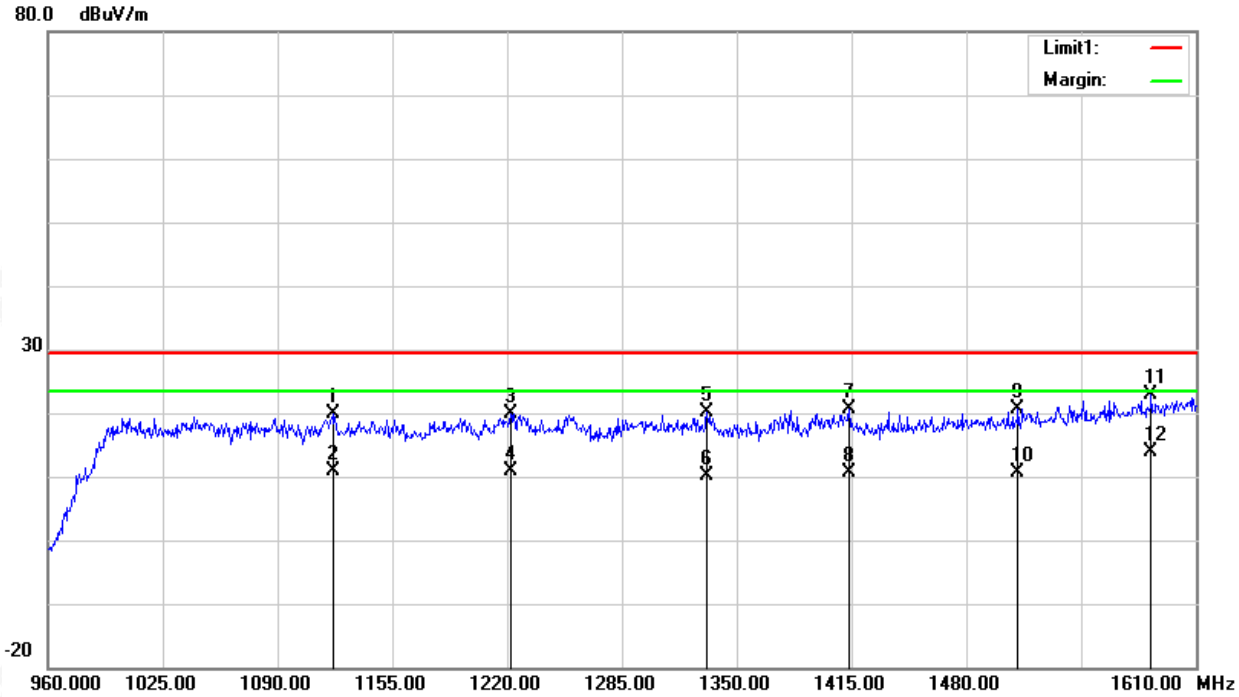
Remark:
1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Vertical
Test Mode:	CH 1(960MHz -1610MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1121.200	20.93	-1.01	19.92	29.44	-9.52	peak
2	1121.200	11.93	-1.01	10.92	29.44	-18.52	RMS
3	1221.950	20.37	-0.46	19.91	29.44	-9.53	peak
4	1221.950	11.37	-0.46	10.91	29.44	-18.53	RMS
5	1333.100	20.10	-0.01	20.09	29.44	-9.35	peak
6	1333.100	10.10	-0.01	10.09	29.44	-19.35	RMS
7	1413.700	20.07	0.44	20.51	29.44	-8.93	peak
8	1413.700	10.07	0.44	10.51	29.44	-18.93	RMS
9	1509.250	18.93	1.70	20.63	29.44	-8.81	peak
10	1509.250	8.93	1.70	10.63	29.44	-18.81	RMS
11	1584.650	19.19	3.76	22.95	29.44	-6.49	peak
12	1584.650	10.19	3.76	13.95	29.44	-15.49	RMS

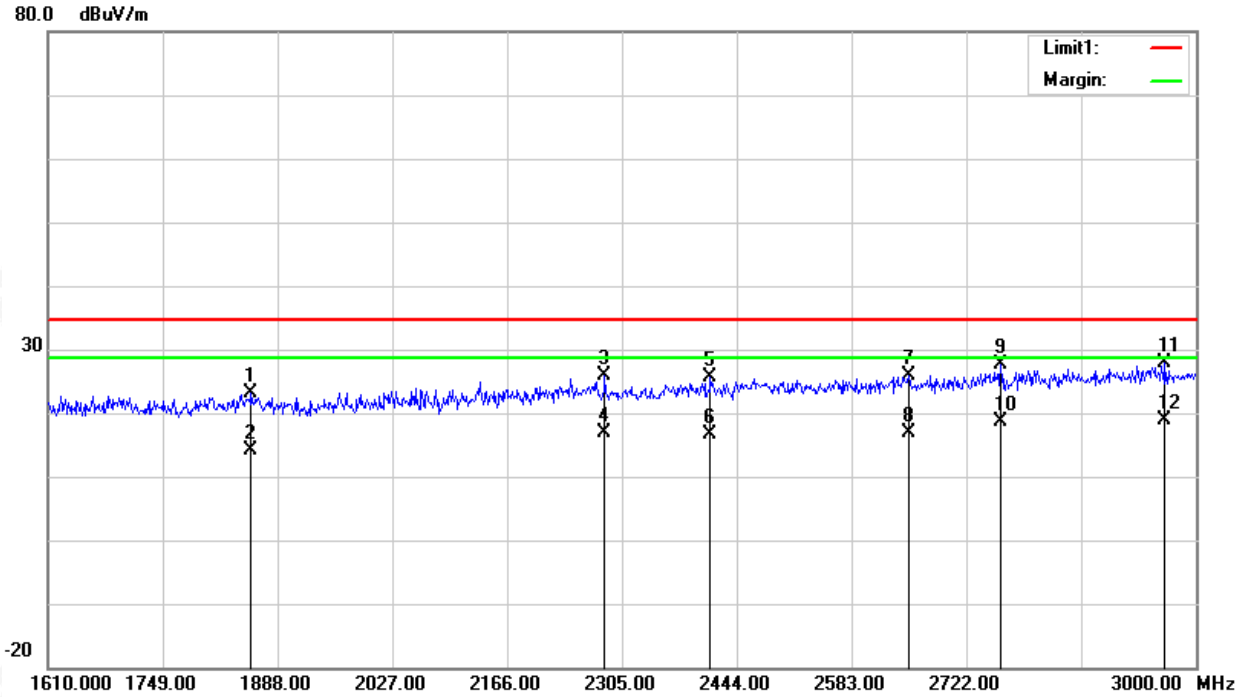
Remark:
1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Horizontal
Test Mode:	CH 1(1610MHz – 3000MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1856.030	20.81	2.24	23.05	34.74	-11.69	peak
2	1856.030	11.81	2.24	14.05	34.74	-20.69	RMS
3	2284.150	22.33	3.57	25.90	34.74	-8.84	peak
4	2284.150	13.33	3.57	16.90	34.74	-17.84	RMS
5	2412.030	21.11	4.50	25.61	34.74	-9.13	peak
6	2412.030	12.11	4.50	16.61	34.74	-18.13	RMS
7	2652.500	20.30	5.55	25.85	34.74	-8.89	peak
8	2652.500	11.30	5.55	16.85	34.74	-17.89	RMS
9	2763.700	21.44	6.12	27.56	34.74	-7.18	peak
10	2763.700	12.44	6.12	18.56	34.74	-16.18	RMS
11	2962.470	20.77	6.99	27.76	34.74	-6.98	peak
12	2962.470	11.77	6.99	18.76	34.74	-15.98	RMS

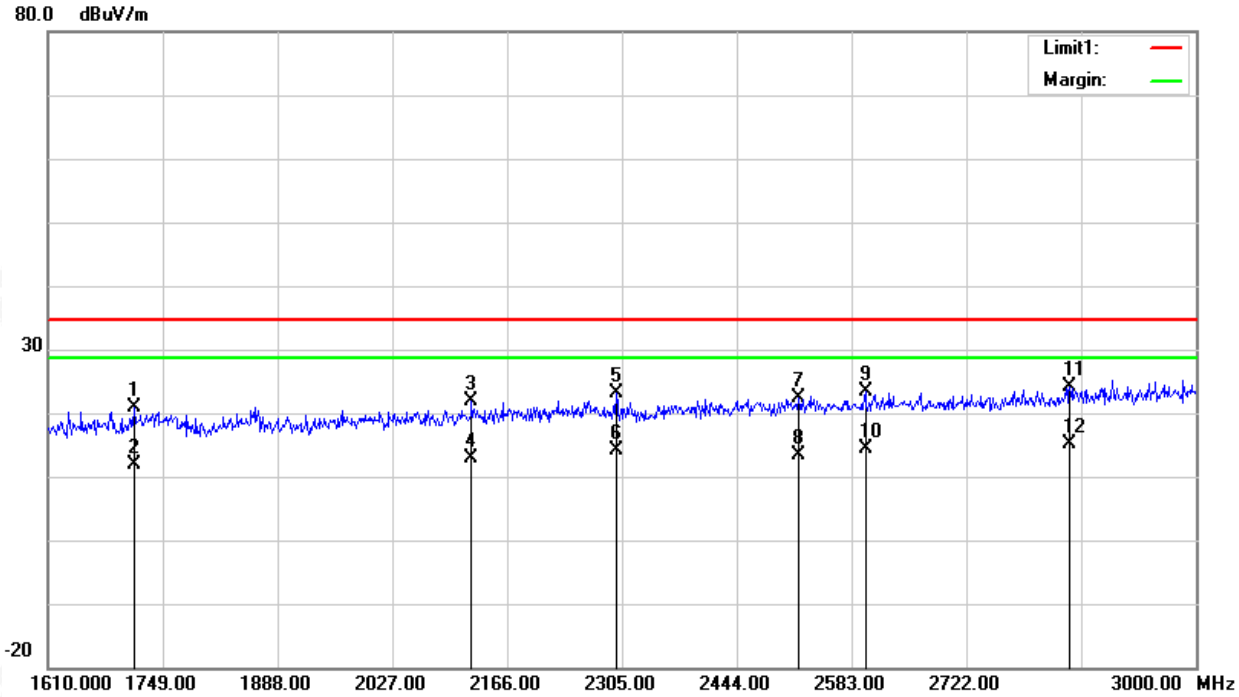
Remark:
1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Vertical
Test Mode:	CH 1(1610MHz – 3000MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1714.250	16.13	4.78	20.91	34.74	-13.83	peak
2	1714.250	7.13	4.78	11.91	34.74	-22.83	RMS
3	2122.910	19.01	2.82	21.83	34.74	-12.91	peak
4	2122.910	10.01	2.82	12.83	34.74	-21.91	RMS
5	2298.050	19.71	3.48	23.19	34.74	-11.55	peak
6	2298.050	10.71	3.48	14.19	34.74	-20.55	RMS
7	2519.060	17.53	4.77	22.30	34.74	-12.44	peak
8	2519.060	8.53	4.77	13.30	34.74	-21.44	RMS
9	2599.680	18.23	5.03	23.26	34.74	-11.48	peak
10	2599.680	9.23	5.03	14.26	34.74	-20.48	RMS
11	2847.100	17.47	6.54	24.01	34.74	-10.73	peak
12	2847.100	8.47	6.54	15.01	34.74	-19.73	RMS

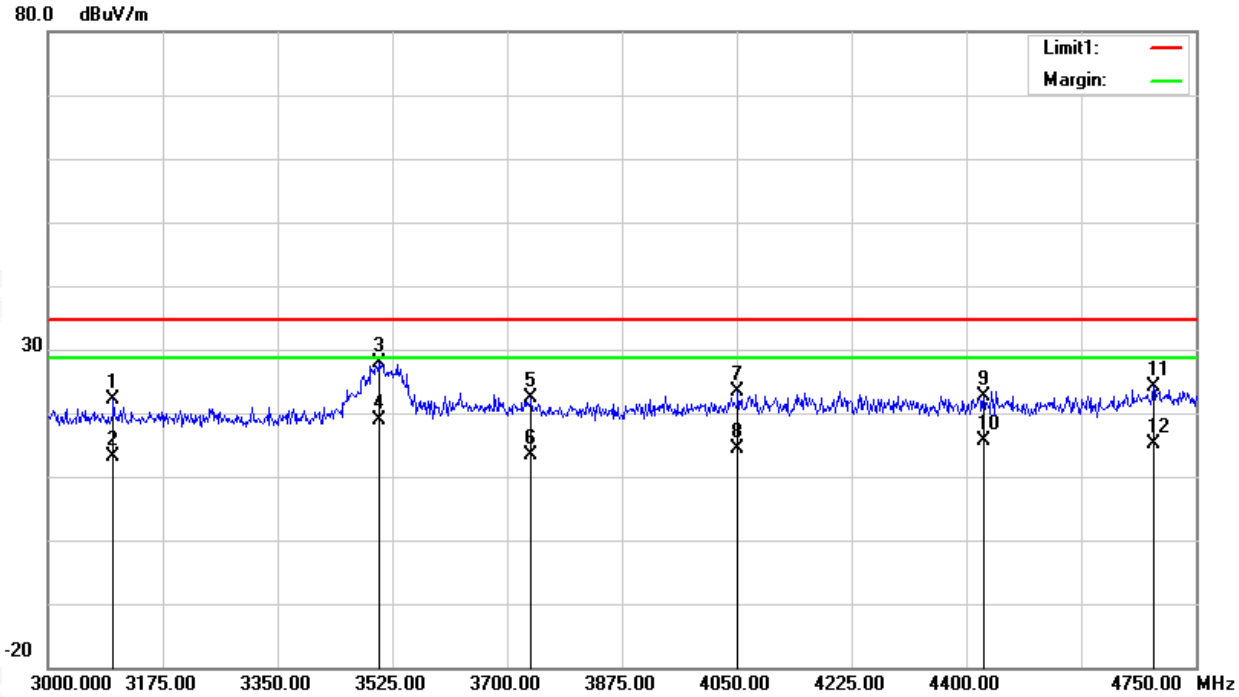
Remark:
1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Horizontal
Test Mode:	CH 1(3000MHz –4750MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3099.750	34.60	-12.41	22.19	34.74	-12.55	peak
2	3099.750	25.60	-12.41	13.19	34.74	-21.55	RMS
3	3504.000	39.42	-11.45	27.97	34.74	-6.77	peak
4	3504.000	30.31	-11.45	18.86	34.74	-15.88	RMS
5	3736.750	32.89	-10.59	22.30	34.74	-12.44	peak
6	3736.750	23.89	-10.59	13.30	34.74	-21.44	RMS
7	4051.750	32.67	-9.36	23.31	34.74	-11.43	peak
8	4051.750	23.67	-9.36	14.31	34.74	-20.43	RMS
9	4426.250	30.75	-8.02	22.73	34.74	-12.01	peak
10	4426.250	23.75	-8.02	15.73	34.74	-19.01	RMS
11	4685.250	31.63	-7.44	24.19	34.74	-10.55	peak
12	4685.250	22.63	-7.44	15.19	34.74	-19.55	RMS

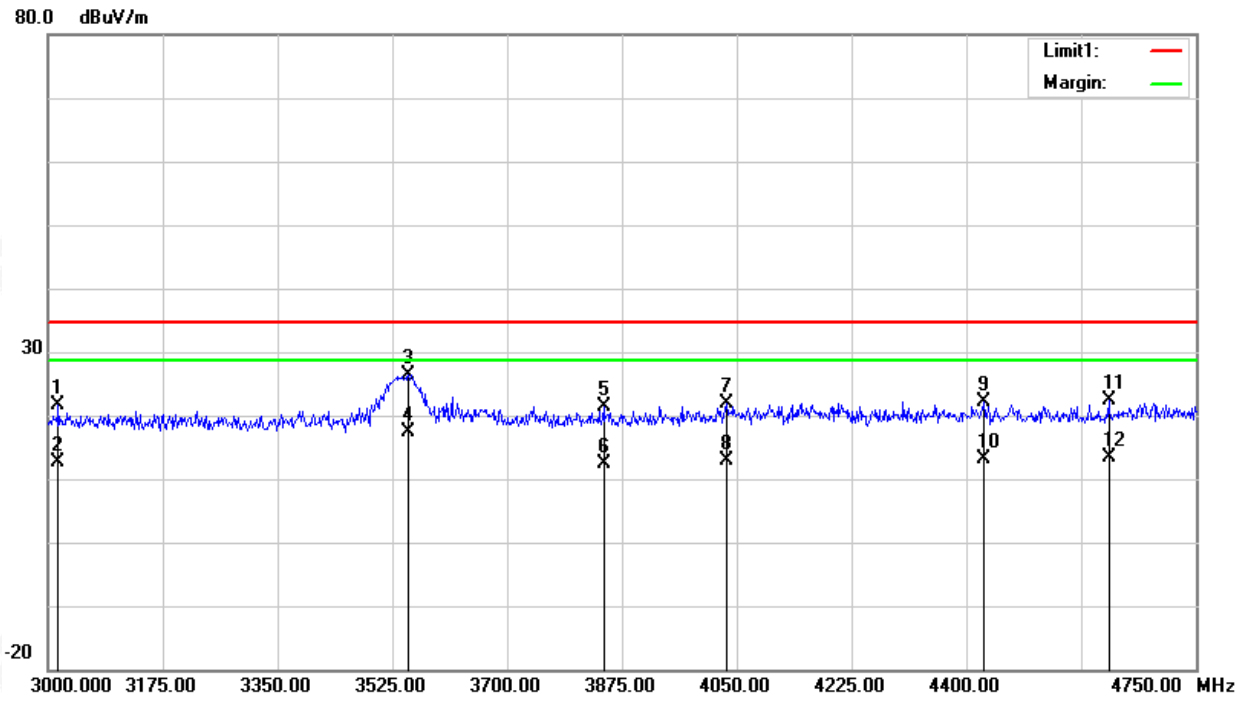
Remark:
1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Vertical
Test Mode:	CH 1(3000MHz –4750MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3015.750	34.14	-12.62	21.52	34.74	-13.22	peak
2	3015.750	25.14	-12.62	12.52	34.74	-22.22	RMS
3	3549.500	37.48	-11.17	26.31	34.74	-8.43	peak
4	3549.500	28.48	-11.17	17.31	34.74	-17.43	RMS
5	3847.000	31.73	-10.42	21.31	34.74	-13.43	peak
6	3847.000	22.73	-10.42	12.31	34.74	-22.43	RMS
7	4034.250	31.44	-9.46	21.98	34.74	-12.76	peak
8	4034.250	22.44	-9.46	12.98	34.74	-21.76	RMS
9	4426.250	30.13	-8.02	22.11	34.74	-12.63	peak
10	4426.250	21.13	-8.02	13.11	34.74	-21.63	RMS
11	4617.000	30.22	-7.79	22.43	34.74	-12.31	peak
12	4617.000	21.22	-7.79	13.43	34.74	-21.31	RMS

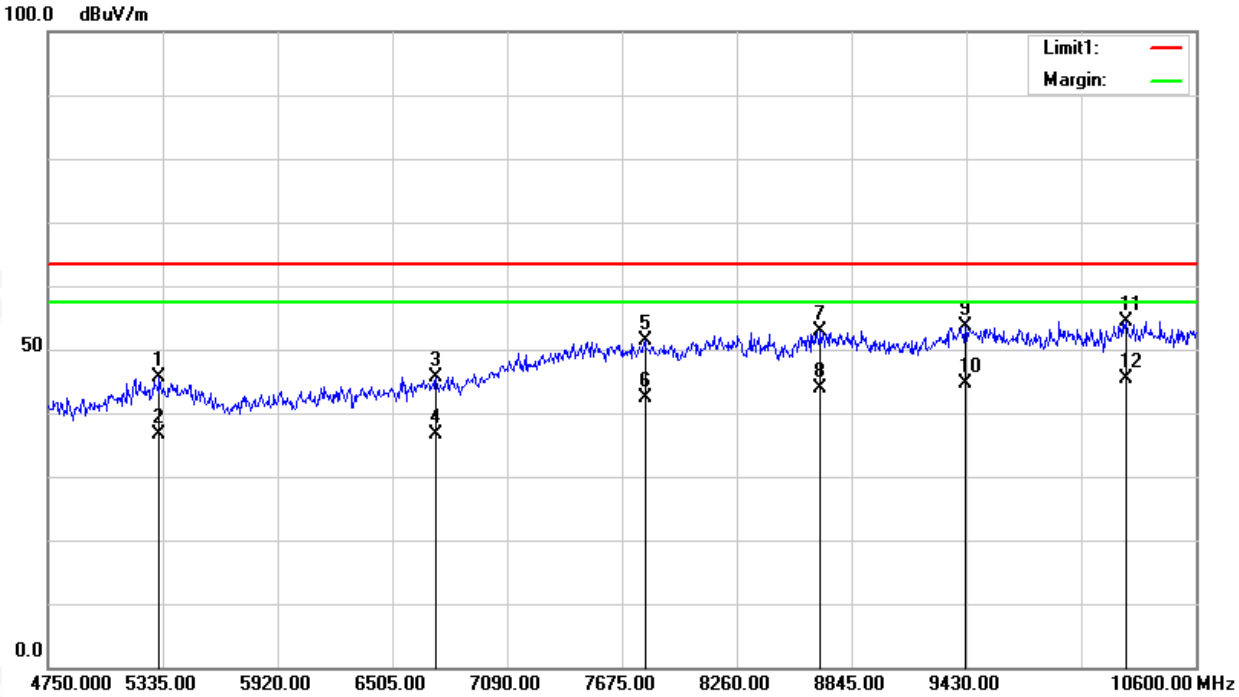
Remark:
1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Horizontal
Test Mode:	CH 1(4750MHz –10600MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5317.450	50.85	-5.22	45.63	63.44	-17.81	peak
2	5317.450	41.85	-5.22	36.63	63.44	-26.81	RMS
3	6727.300	46.72	-0.97	45.75	63.44	-17.69	peak
4	6727.300	37.72	-0.97	36.75	63.44	-26.69	RMS
5	7792.000	49.45	1.95	51.40	63.44	-12.04	peak
6	7792.000	40.45	1.95	42.40	63.44	-21.04	RMS
7	8687.050	50.36	2.62	52.98	63.44	-10.46	peak
8	8687.050	41.36	2.62	43.98	63.44	-19.46	RMS
9	9424.150	50.52	3.04	53.56	63.44	-9.88	peak
10	9424.150	41.52	3.04	44.56	63.44	-18.88	RMS
11	10243.150	50.22	4.14	54.36	63.44	-9.08	peak
12	10243.150	41.22	4.14	45.36	63.44	-18.08	RMS

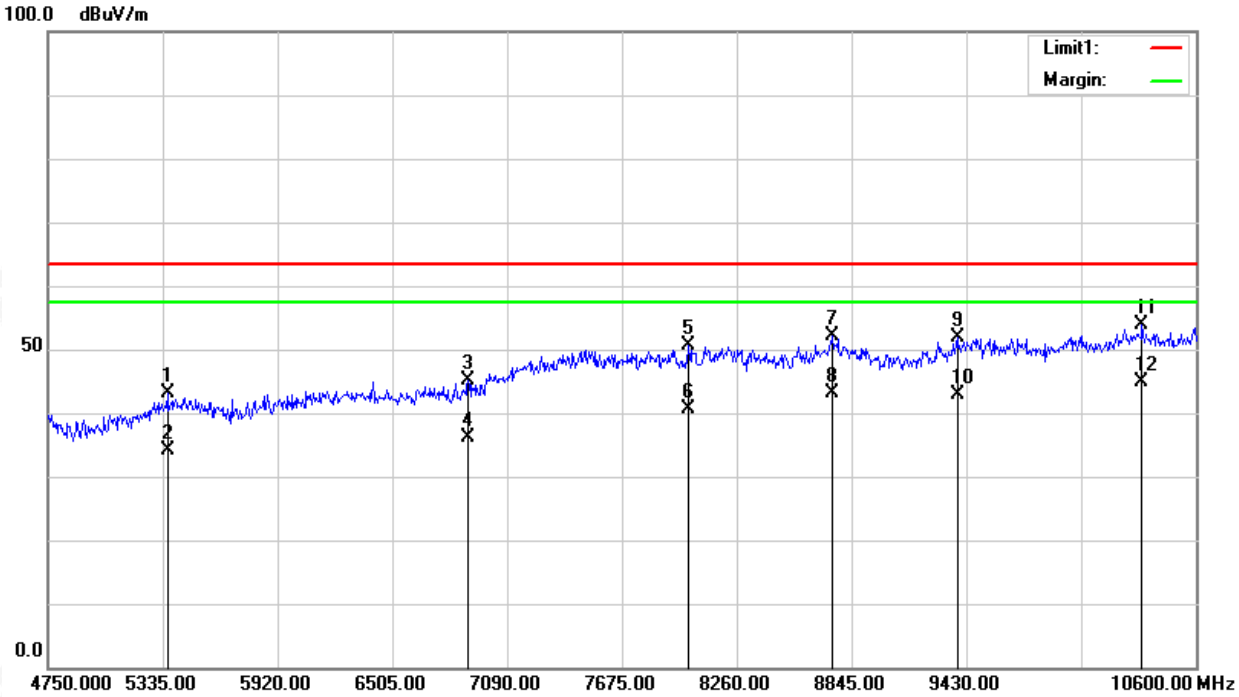
Remark:
1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Vertical
Test Mode:	CH 1(4750MHz –10600MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5358.400	48.33	-5.23	43.10	63.44	-20.34	peak
2	5358.400	39.33	-5.23	34.10	63.44	-29.34	RMS
3	6891.100	45.30	-0.24	45.06	63.44	-18.38	peak
4	6891.100	36.30	-0.24	36.06	63.44	-27.38	RMS
5	8014.300	48.46	2.19	50.65	63.44	-12.79	peak
6	8014.300	38.46	2.19	40.65	63.44	-22.79	RMS
7	8745.550	49.59	2.59	52.18	63.44	-11.26	peak
8	8745.550	40.59	2.59	43.18	63.44	-20.26	RMS
9	9383.200	48.81	2.98	51.79	63.44	-11.65	peak
10	9383.200	39.81	2.98	42.79	63.44	-20.65	RMS
11	10325.050	49.46	4.41	53.87	63.44	-9.57	peak
12	10325.050	40.46	4.41	44.87	63.44	-18.57	RMS

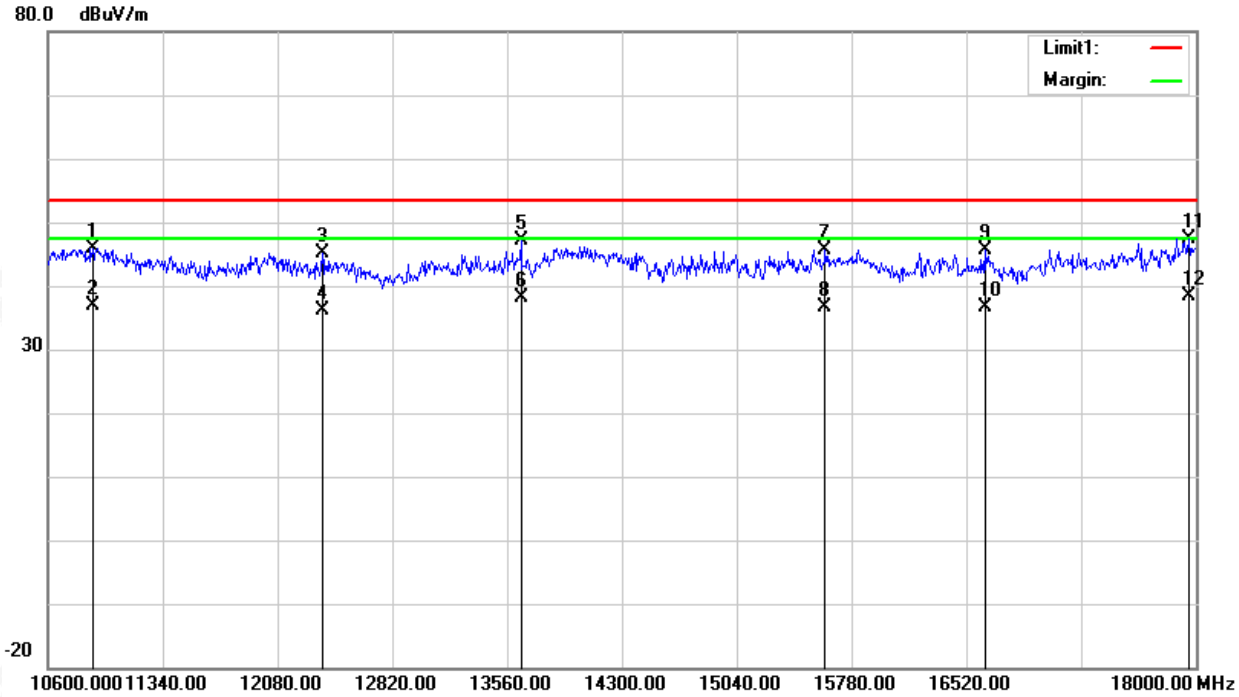
Remark:
1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Horizontal
Test Mode:	CH 1(10600MHz – 18000MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10888.600	39.94	5.99	45.93	53.44	-7.51	peak
2	10888.600	30.94	5.99	36.93	53.44	-16.51	RMS
3	12368.600	39.24	5.82	45.06	53.44	-8.38	peak
4	12368.600	30.24	5.82	36.06	53.44	-17.38	RMS
5	13648.800	36.67	10.41	47.08	53.44	-6.36	peak
6	13648.800	27.67	10.41	38.08	53.44	-15.36	RMS
7	15609.800	36.51	9.04	45.55	53.44	-7.89	peak
8	15609.800	27.51	9.04	36.55	53.44	-16.89	RMS
9	16638.400	36.25	9.43	45.68	53.44	-7.76	peak
10	16638.400	27.25	9.43	36.68	53.44	-16.76	RMS
11	17955.600	35.46	11.93	47.39	53.44	-6.05	peak
12	17955.600	26.46	11.93	38.39	53.44	-15.05	RMS

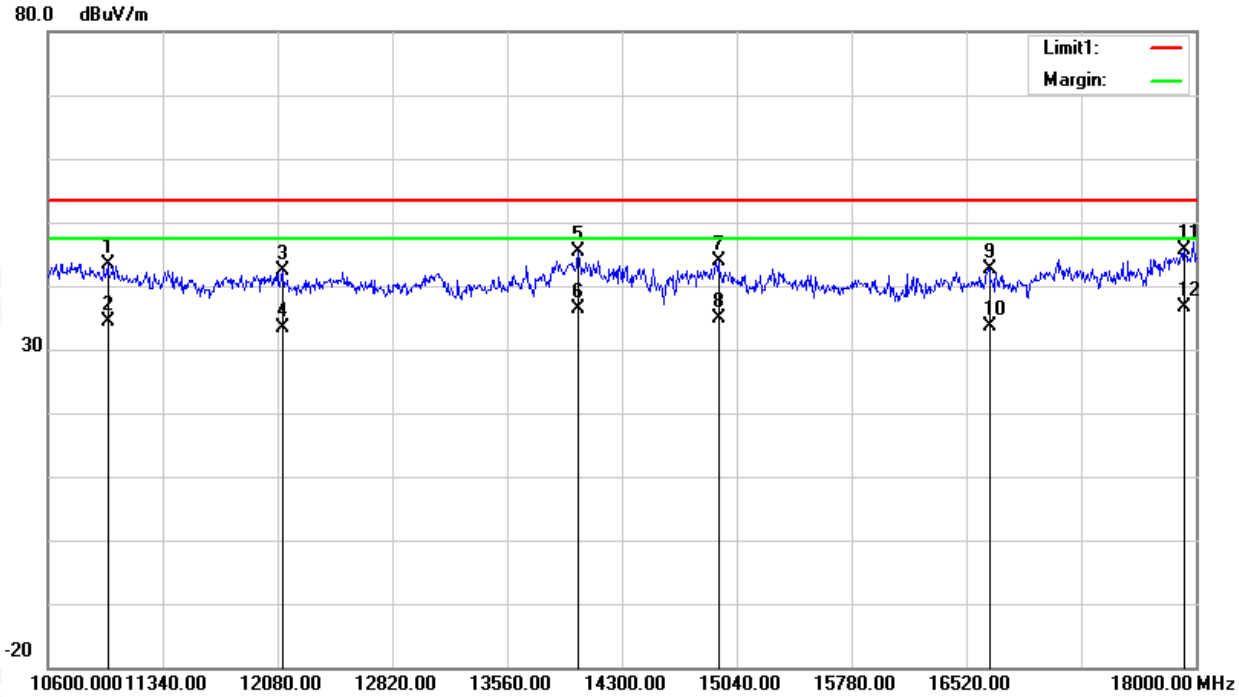
Remark:
1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Vertical
Test Mode:	CH 1(10600MHz – 18000MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10984.800	37.12	6.25	43.37	53.44	-10.07	peak
2	10984.800	28.12	6.25	34.37	53.44	-19.07	RMS
3	12109.600	36.53	5.80	42.33	53.44	-11.11	peak
4	12109.600	27.53	5.80	33.33	53.44	-20.11	RMS
5	14018.800	33.07	12.29	45.36	53.44	-8.08	peak
6	14018.800	24.07	12.29	36.36	53.44	-17.08	RMS
7	14921.600	33.71	10.27	43.98	53.44	-9.46	peak
8	14921.600	24.71	10.27	34.98	53.44	-18.46	RMS
9	16668.000	33.12	9.46	42.58	53.44	-10.86	peak
10	16668.000	24.12	9.46	33.58	53.44	-19.86	RMS
11	17926.000	33.82	11.85	45.67	53.44	-7.77	peak
12	17926.000	24.82	11.85	36.67	53.44	-16.77	RMS

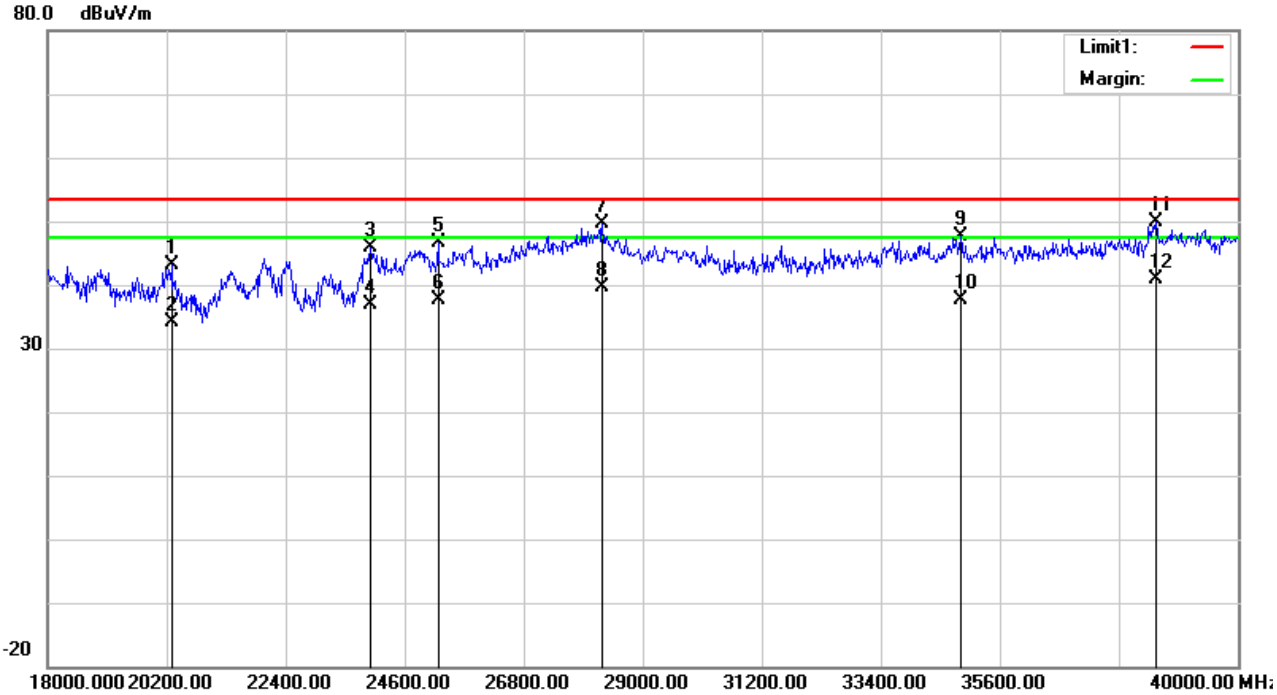
Remark:
1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Horizontal
Test Mode:	CH 1(18000 MHz -40000MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	20288.000	30.80	12.26	43.06	53.44	-10.38	peak
2	20288.000	21.80	12.26	34.06	53.44	-19.38	RMS
3	23962.000	29.72	16.07	45.79	53.44	-7.65	peak
4	23962.000	20.72	16.07	36.79	53.44	-16.65	RMS
5	25216.000	29.34	17.17	46.51	53.44	-6.93	peak
6	25216.000	20.34	17.17	37.51	53.44	-15.93	RMS
7	28252.000	30.39	19.18	49.57	53.44	-3.87	peak
8	28252.000	20.39	19.18	39.57	53.44	-13.87	RMS
9	34874.000	31.37	16.18	47.55	53.44	-5.89	peak
10	34874.000	21.37	16.18	37.55	53.44	-15.89	RMS
11	38482.000	32.08	17.92	50.00	53.44	-3.44	peak
12	38482.000	23.08	17.92	41.00	53.44	-12.44	RMS

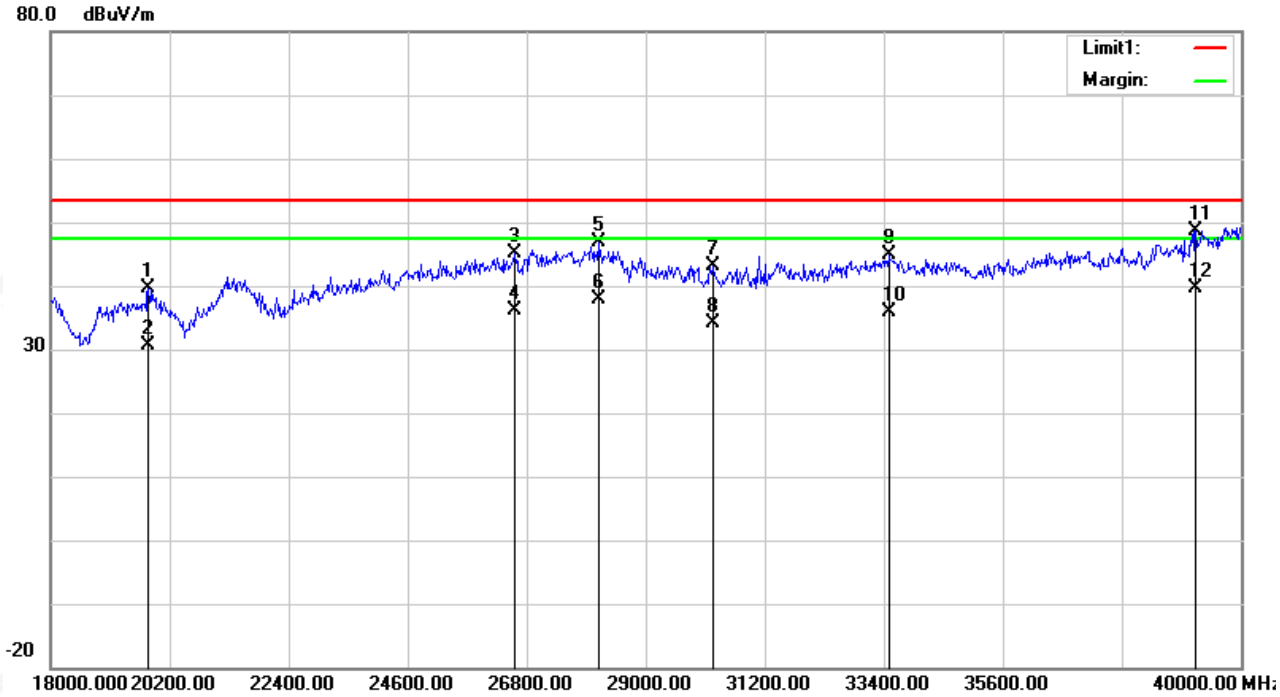
Remark:
3. Margin = Result (Result =Reading + Factor)–Limit
4. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Vertical
Test Mode:	CH 1(18000 MHz -40000MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	19804.000	24.78	14.92	39.70	53.44	-13.74	peak
2	19804.000	15.78	14.92	30.70	53.44	-22.74	RMS
3	26580.000	26.85	18.36	45.21	53.44	-8.23	peak
4	26580.000	17.85	18.36	36.21	53.44	-17.23	RMS
5	28120.000	27.37	19.43	46.80	53.44	-6.64	peak
6	28120.000	18.37	19.43	37.80	53.44	-15.64	RMS
7	30232.000	27.27	15.88	43.15	53.44	-10.29	peak
8	30232.000	18.27	15.88	34.15	53.44	-19.29	RMS
9	33488.000	29.07	15.72	44.79	53.44	-8.65	peak
10	33488.000	20.07	15.72	35.79	53.44	-17.65	RMS
11	39164.000	30.42	18.29	48.71	53.44	-4.73	peak
12	39164.000	21.42	18.29	39.71	53.44	-13.73	RMS

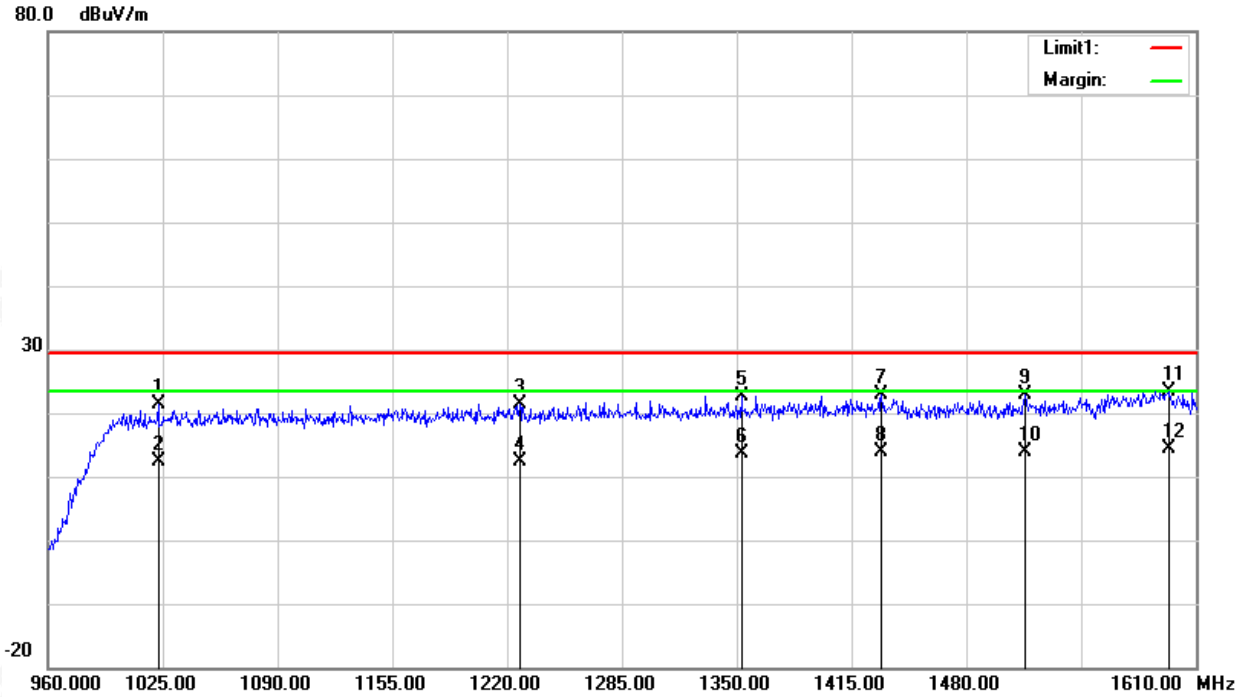
Remark:
3. Margin = Result (Result =Reading + Factor)–Limit
4. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Horizontal
Test Mode:	CH 2(960MHz -1610MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1022.400	22.77	-1.50	21.27	29.44	-8.17	peak
2	1022.400	13.77	-1.50	12.27	29.44	-17.17	RMS
3	1227.150	21.90	-0.47	21.43	29.44	-8.01	peak
4	1227.150	12.90	-0.47	12.43	29.44	-17.01	RMS
5	1352.600	22.50	0.08	22.58	29.44	-6.86	peak
6	1352.600	13.50	0.08	13.58	29.44	-15.86	RMS
7	1431.900	22.24	0.67	22.91	29.44	-6.53	peak
8	1431.900	13.24	0.67	13.91	29.44	-15.53	RMS
9	1513.150	21.12	1.80	22.92	29.44	-6.52	peak
10	1513.150	12.12	1.80	13.92	29.44	-15.52	RMS
11	1594.400	19.33	4.07	23.40	29.44	-6.04	peak
12	1594.400	10.33	4.07	14.40	29.44	-15.04	RMS

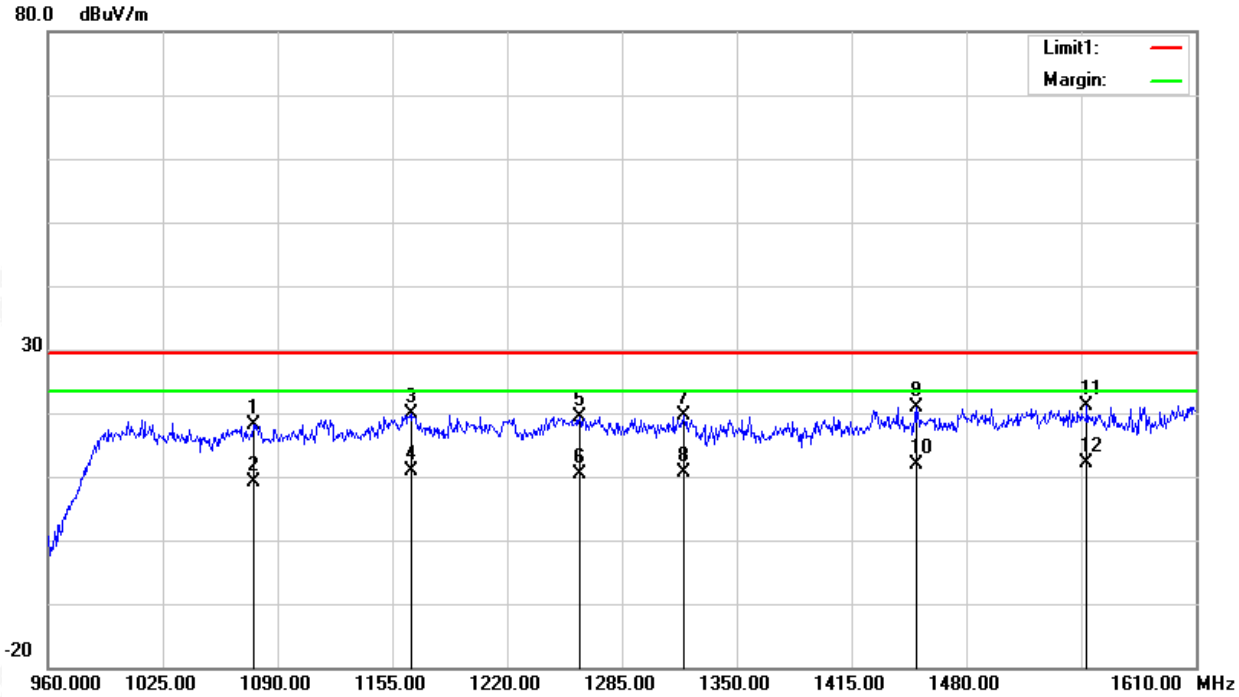
Remark:
3. Margin = Result (Result =Reading + Factor)–Limit
4. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Vertical
Test Mode:	CH 2(960MHz -1610MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1076.350	19.36	-1.22	18.14	29.44	-11.30	peak
2	1076.350	10.36	-1.22	9.14	29.44	-20.30	RMS
3	1166.050	20.55	-0.76	19.79	29.44	-9.65	peak
4	1166.050	11.55	-0.76	10.79	29.44	-18.65	RMS
5	1260.950	19.77	-0.43	19.34	29.44	-10.10	peak
6	1260.950	10.77	-0.43	10.34	29.44	-19.10	RMS
7	1320.100	19.59	-0.06	19.53	29.44	-9.91	peak
8	1320.100	10.59	-0.06	10.53	29.44	-18.91	RMS
9	1451.400	20.03	0.91	20.94	29.44	-8.50	peak
10	1451.400	11.03	0.91	11.94	29.44	-17.50	RMS
11	1548.250	18.43	2.63	21.06	29.44	-8.38	peak
12	1548.250	9.43	2.63	12.06	29.44	-17.38	RMS

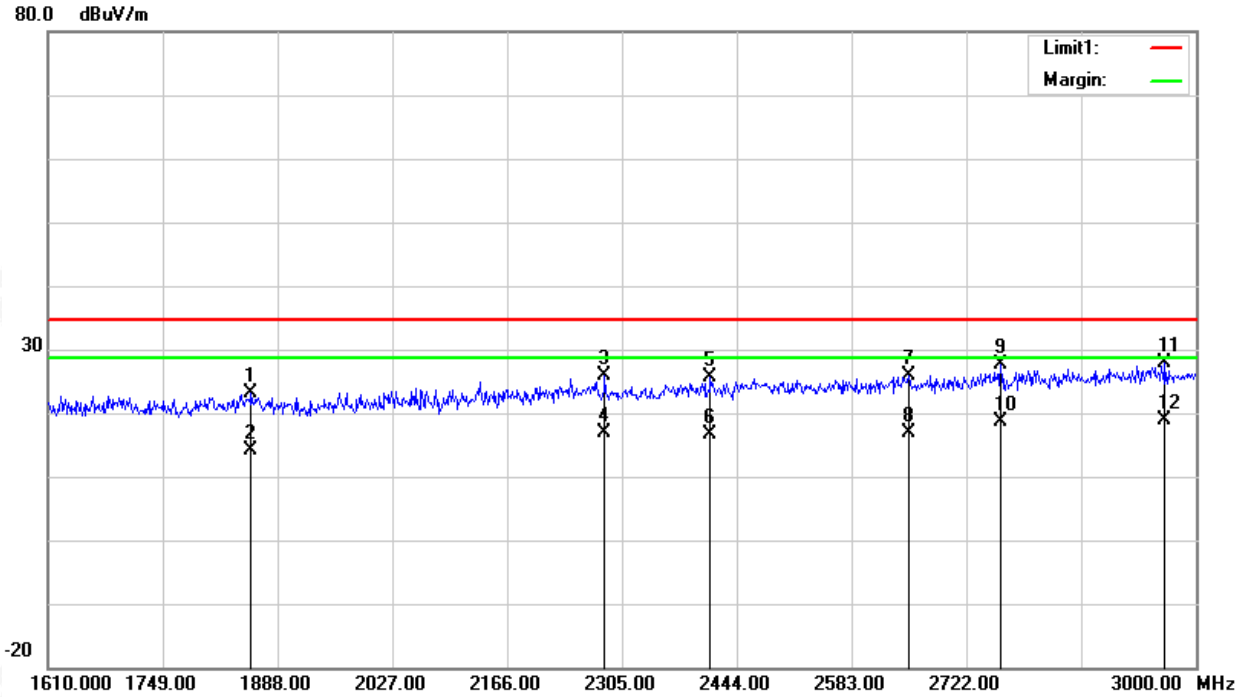
Remark:
3. Margin = Result (Result =Reading + Factor)–Limit
4. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Horizontal
Test Mode:	CH 2(1610MHz – 3000MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1856.030	20.81	2.24	23.05	34.74	-11.69	peak
2	1856.030	11.81	2.24	14.05	34.74	-20.69	RMS
3	2284.150	22.33	3.57	25.90	34.74	-8.84	peak
4	2284.150	13.33	3.57	16.90	34.74	-17.84	RMS
5	2412.030	21.11	4.50	25.61	34.74	-9.13	peak
6	2412.030	12.11	4.50	16.61	34.74	-18.13	RMS
7	2652.500	20.30	5.55	25.85	34.74	-8.89	peak
8	2652.500	11.30	5.55	16.85	34.74	-17.89	RMS
9	2763.700	21.44	6.12	27.56	34.74	-7.18	peak
10	2763.700	12.44	6.12	18.56	34.74	-16.18	RMS
11	2962.470	20.77	6.99	27.76	34.74	-6.98	peak
12	2962.470	11.77	6.99	18.76	34.74	-15.98	RMS

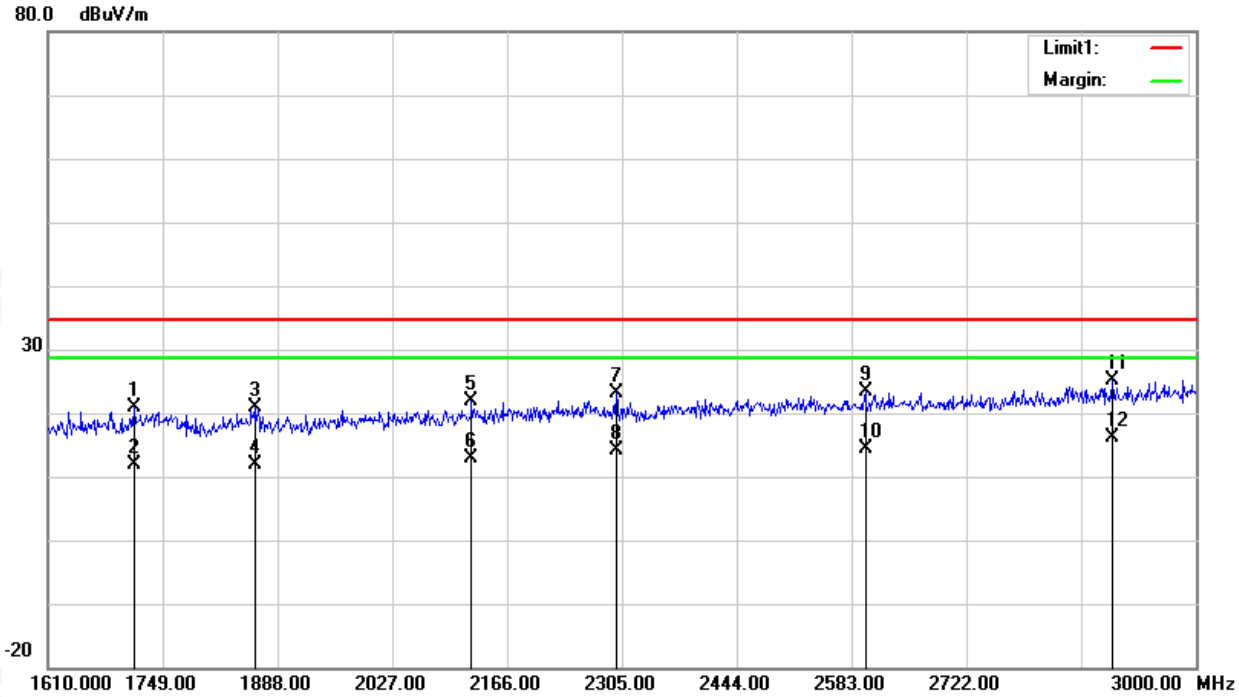
Remark:
3. Margin = Result (Result =Reading + Factor)–Limit
4. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Vertical
Test Mode:	CH 2(1610MHz – 3000MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1714.250	16.13	4.78	20.91	34.74	-13.83	peak
2	1714.250	7.13	4.78	11.91	34.74	-22.83	RMS
3	1861.590	18.73	2.15	20.88	34.74	-13.86	peak
4	1861.590	9.73	2.15	11.88	34.74	-22.86	RMS
5	2122.910	19.01	2.82	21.83	34.74	-12.91	peak
6	2122.910	10.01	2.82	12.83	34.74	-21.91	RMS
7	2298.050	19.71	3.48	23.19	34.74	-11.55	peak
8	2298.050	10.71	3.48	14.19	34.74	-20.55	RMS
9	2599.680	18.23	5.03	23.26	34.74	-11.48	peak
10	2599.680	9.23	5.03	14.26	34.74	-20.48	RMS
11	2898.530	18.42	6.72	25.14	34.74	-9.60	peak
12	2898.530	9.42	6.72	16.14	34.74	-18.60	RMS

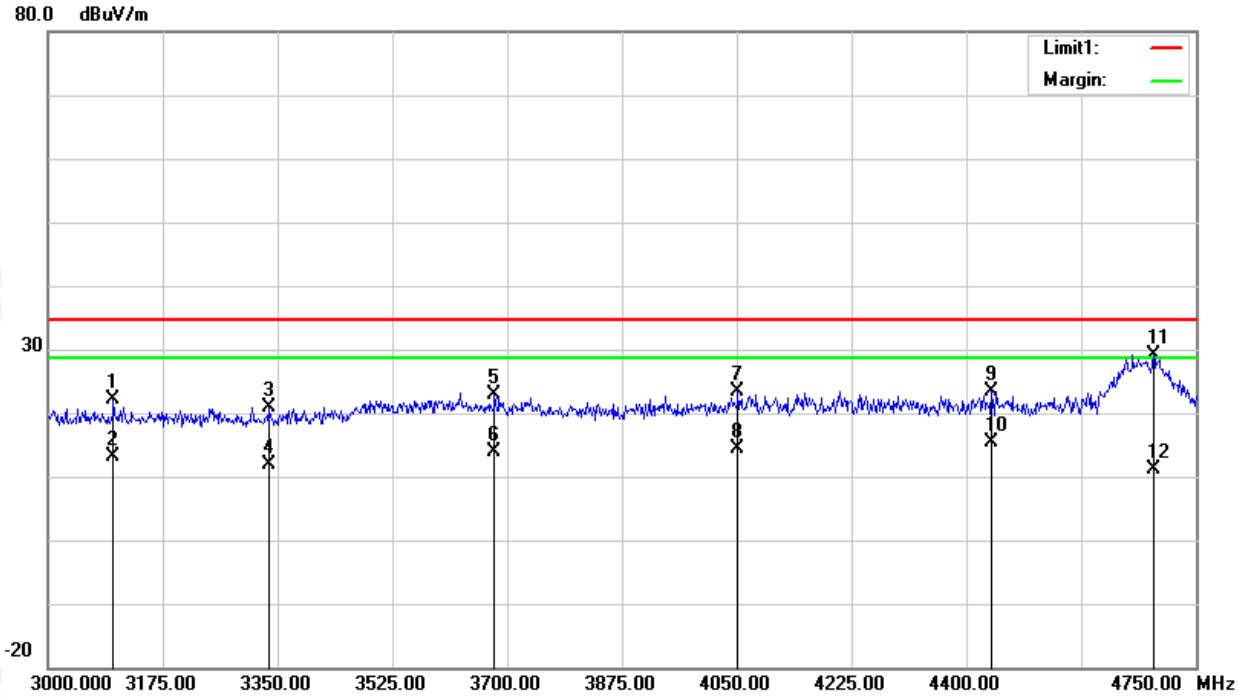
Remark:
3. Margin = Result (Result =Reading + Factor)–Limit
4. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Horizontal
Test Mode:	CH 2(3000MHz –4750MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3099.750	34.59	-12.41	22.18	34.74	-12.56	peak
2	3099.750	25.59	-12.41	13.18	34.74	-21.56	RMS
3	3337.750	32.79	-11.89	20.90	34.74	-13.84	peak
4	3337.750	23.79	-11.89	11.90	34.74	-22.84	RMS
5	3680.750	33.53	-10.61	22.92	34.74	-11.82	peak
6	3680.750	24.53	-10.61	13.92	34.74	-20.82	RMS
7	4051.750	32.67	-9.36	23.31	34.74	-11.43	peak
8	4051.750	23.67	-9.36	14.31	34.74	-20.43	RMS
9	4438.500	31.43	-8.01	23.42	34.74	-11.32	peak
10	4438.500	23.43	-8.01	15.42	34.74	-19.32	RMS
11	4685.250	36.63	-7.44	29.19	34.74	-5.55	peak
12	4685.250	18.63	-7.44	11.19	34.74	-23.55	RMS

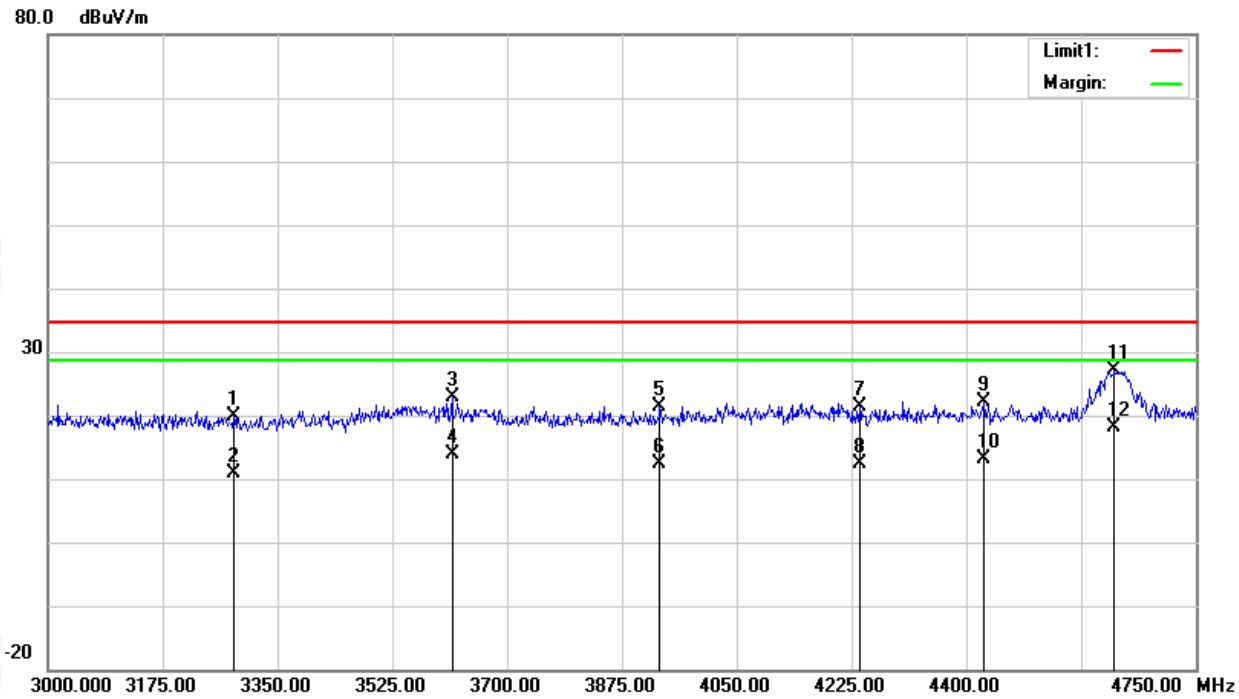
Remark:
3. Margin = Result (Result =Reading + Factor)–Limit
4. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Vertical
Test Mode:	CH 2(3000MHz –4750MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3283.500	32.04	-12.07	19.97	34.74	-14.77	peak
2	3283.500	23.04	-12.07	10.97	34.74	-23.77	RMS
3	3616.000	33.67	-10.80	22.87	34.74	-11.87	peak
4	3616.000	24.67	-10.80	13.87	34.74	-20.87	RMS
5	3932.750	31.34	-9.99	21.35	34.74	-13.39	peak
6	3932.750	22.34	-9.99	12.35	34.74	-22.39	RMS
7	4237.250	29.89	-8.40	21.49	34.74	-13.25	peak
8	4237.250	20.89	-8.40	12.49	34.74	-22.25	RMS
9	4426.250	30.13	-8.02	22.11	34.74	-12.63	peak
10	4426.250	21.13	-8.02	13.11	34.74	-21.63	RMS
11	4625.750	34.82	-7.74	27.08	34.74	-7.66	peak
12	4625.750	25.82	-7.74	18.08	34.74	-16.66	RMS

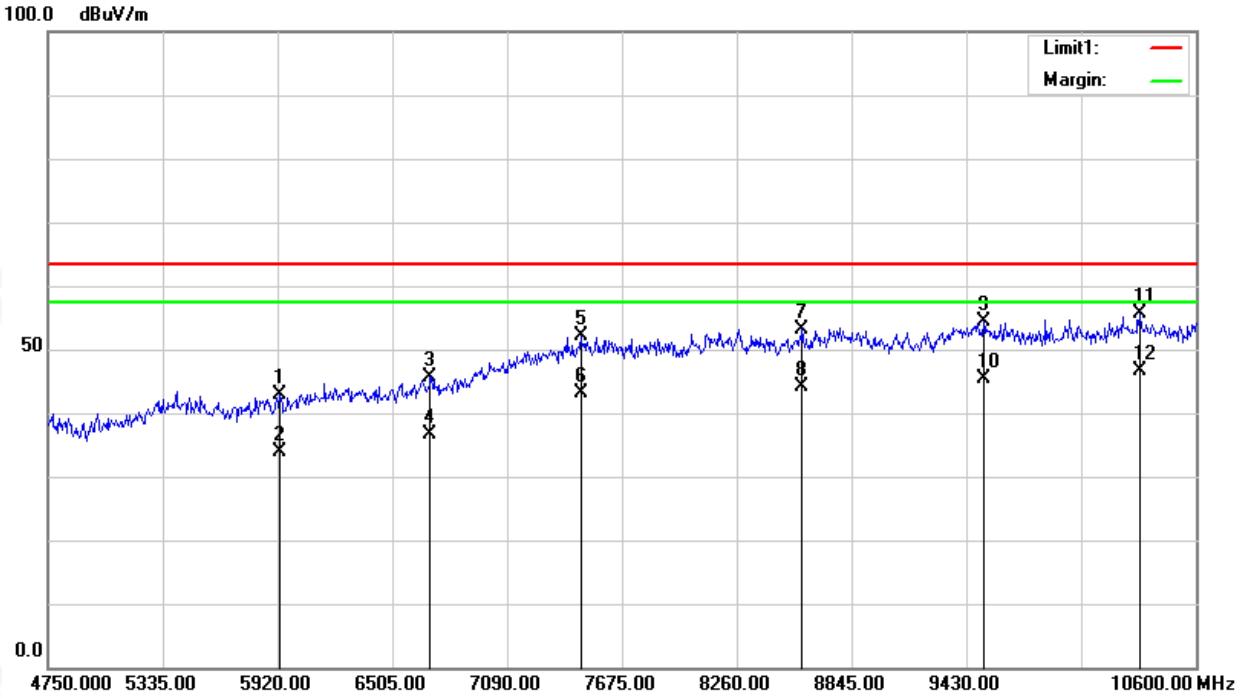
Remark:
3. Margin = Result (Result =Reading + Factor)–Limit
4. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Horizontal
Test Mode:	CH 2(4750MHz –10600MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5931.700	46.72	-3.93	42.79	63.44	-20.65	peak
2	5931.700	37.72	-3.93	33.79	63.44	-29.65	RMS
3	6698.050	46.66	-1.04	45.62	63.44	-17.82	peak
4	6698.050	37.66	-1.04	36.62	63.44	-26.82	RMS
5	7464.400	50.60	1.50	52.10	63.44	-11.34	peak
6	7464.400	41.60	1.50	43.10	63.44	-20.34	RMS
7	8593.450	50.58	2.67	53.25	63.44	-10.19	peak
8	8593.450	41.58	2.67	44.25	63.44	-19.19	RMS
9	9517.750	51.17	3.15	54.32	63.44	-9.12	peak
10	9517.750	42.17	3.15	45.32	63.44	-18.12	RMS
11	10313.350	51.32	4.37	55.69	63.44	-7.75	peak
12	10313.350	42.32	4.37	46.69	63.44	-16.75	RMS

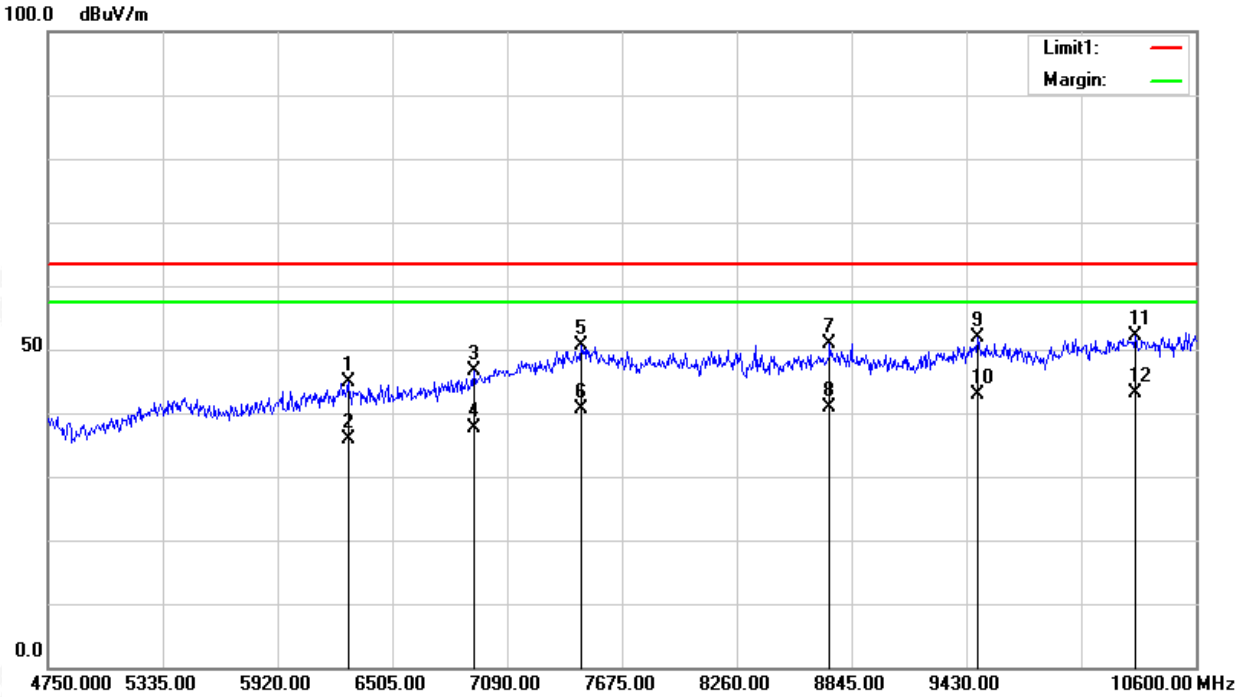
Remark:
3. Margin = Result (Result =Reading + Factor)–Limit
4. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Vertical
Test Mode:	CH 2(4750MHz –10600MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6282.700	47.38	-2.57	44.81	63.44	-18.63	peak
2	6282.700	38.38	-2.57	35.81	63.44	-27.63	RMS
3	6920.350	46.79	-0.20	46.59	63.44	-16.85	peak
4	6920.350	37.79	-0.20	37.59	63.44	-25.85	RMS
5	7470.250	49.15	1.53	50.68	63.44	-12.76	peak
6	7470.250	39.15	1.53	40.68	63.44	-22.76	RMS
7	8733.850	48.21	2.59	50.80	63.44	-12.64	peak
8	8733.850	38.21	2.59	40.80	63.44	-22.64	RMS
9	9488.500	48.76	3.12	51.88	63.44	-11.56	peak
10	9488.500	39.76	3.12	42.88	63.44	-20.56	RMS
11	10289.950	47.85	4.30	52.15	63.44	-11.29	peak
12	10289.950	38.85	4.30	43.15	63.44	-20.29	RMS

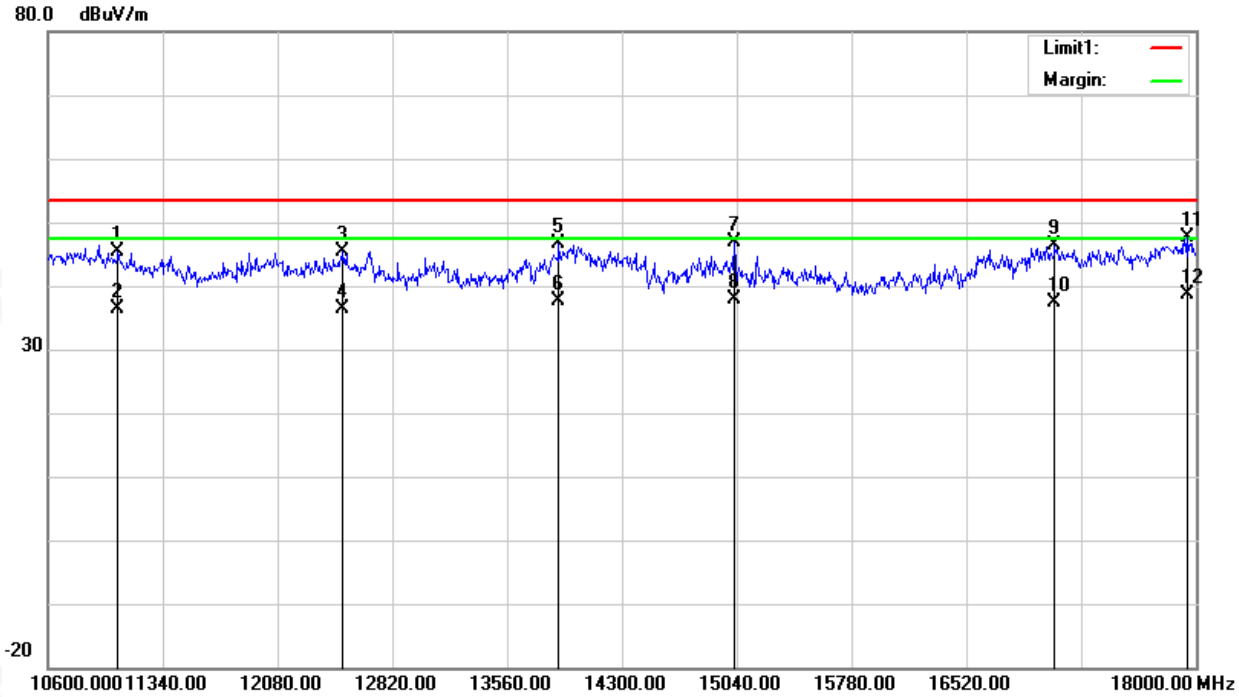
Remark:
3. Margin = Result (Result =Reading + Factor)–Limit
4. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Horizontal
Test Mode:	CH 2(10600MHz – 18000MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11051.400	38.96	6.30	45.26	53.44	-8.18	peak
2	11051.400	29.96	6.30	36.26	53.44	-17.18	RMS
3	12501.800	39.62	5.83	45.45	53.44	-7.99	peak
4	12501.800	30.62	5.83	36.45	53.44	-16.99	RMS
5	13893.000	34.97	11.74	46.71	53.44	-6.73	peak
6	13893.000	25.97	11.74	37.71	53.44	-15.73	RMS
7	15025.200	36.92	10.04	46.96	53.44	-6.48	peak
8	15025.200	27.92	10.04	37.96	53.44	-15.48	RMS
9	17089.800	36.36	9.96	46.32	53.44	-7.12	peak
10	17089.800	27.36	9.96	37.32	53.44	-16.12	RMS
11	17948.200	35.80	11.91	47.71	53.44	-5.73	peak
12	17948.200	26.80	11.91	38.71	53.44	-14.73	RMS

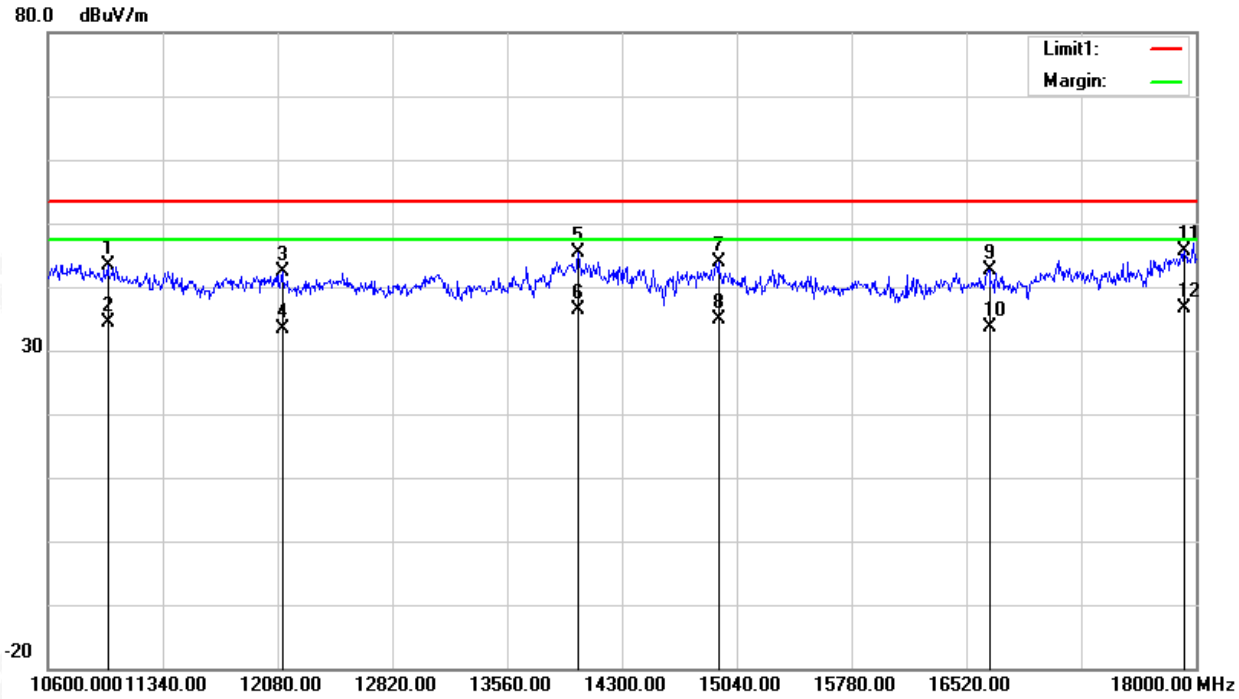
Remark:
5. Margin = Result (Result =Reading + Factor)–Limit
6. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Vertical
Test Mode:	CH 2(10600MHz – 18000MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10984.800	37.12	6.25	43.37	53.44	-10.07	peak
2	10984.800	28.12	6.25	34.37	53.44	-19.07	RMS
3	12109.600	36.53	5.80	42.33	53.44	-11.11	peak
4	12109.600	27.53	5.80	33.33	53.44	-20.11	RMS
5	14018.800	33.07	12.29	45.36	53.44	-8.08	peak
6	14018.800	24.07	12.29	36.36	53.44	-17.08	RMS
7	14921.600	33.71	10.27	43.98	53.44	-9.46	peak
8	14921.600	24.71	10.27	34.98	53.44	-18.46	RMS
9	16668.000	33.12	9.46	42.58	53.44	-10.86	peak
10	16668.000	24.12	9.46	33.58	53.44	-19.86	RMS
11	17926.000	33.82	11.85	45.67	53.44	-7.77	peak
12	17926.000	24.82	11.85	36.67	53.44	-16.77	RMS

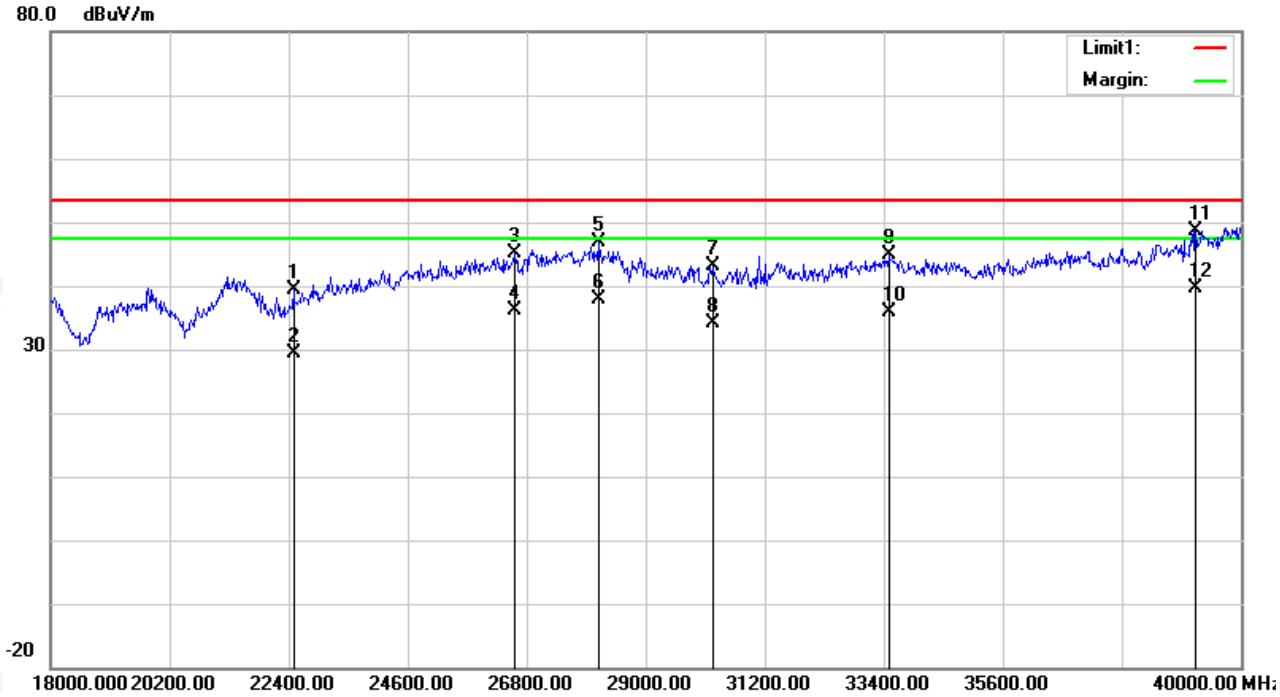
Remark:
5. Margin = Result (Result =Reading + Factor)–Limit
6. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Horizontal
Test Mode:	CH 2(18000 MHz -40000MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	22488.000	27.68	11.80	39.48	53.44	-13.96	peak
2	22488.000	17.68	11.80	29.48	53.44	-23.96	RMS
3	26580.000	26.85	18.36	45.21	53.44	-8.23	peak
4	26580.000	17.85	18.36	36.21	53.44	-17.23	RMS
5	28120.000	27.37	19.43	46.80	53.44	-6.64	peak
6	28120.000	18.37	19.43	37.80	53.44	-15.64	RMS
7	30232.000	27.27	15.88	43.15	53.44	-10.29	peak
8	30232.000	18.27	15.88	34.15	53.44	-19.29	RMS
9	33488.000	29.07	15.72	44.79	53.44	-8.65	peak
10	33488.000	20.07	15.72	35.79	53.44	-17.65	RMS
11	39164.000	30.42	18.29	48.71	53.44	-4.73	peak
12	39164.000	21.42	18.29	39.71	53.44	-13.73	RMS

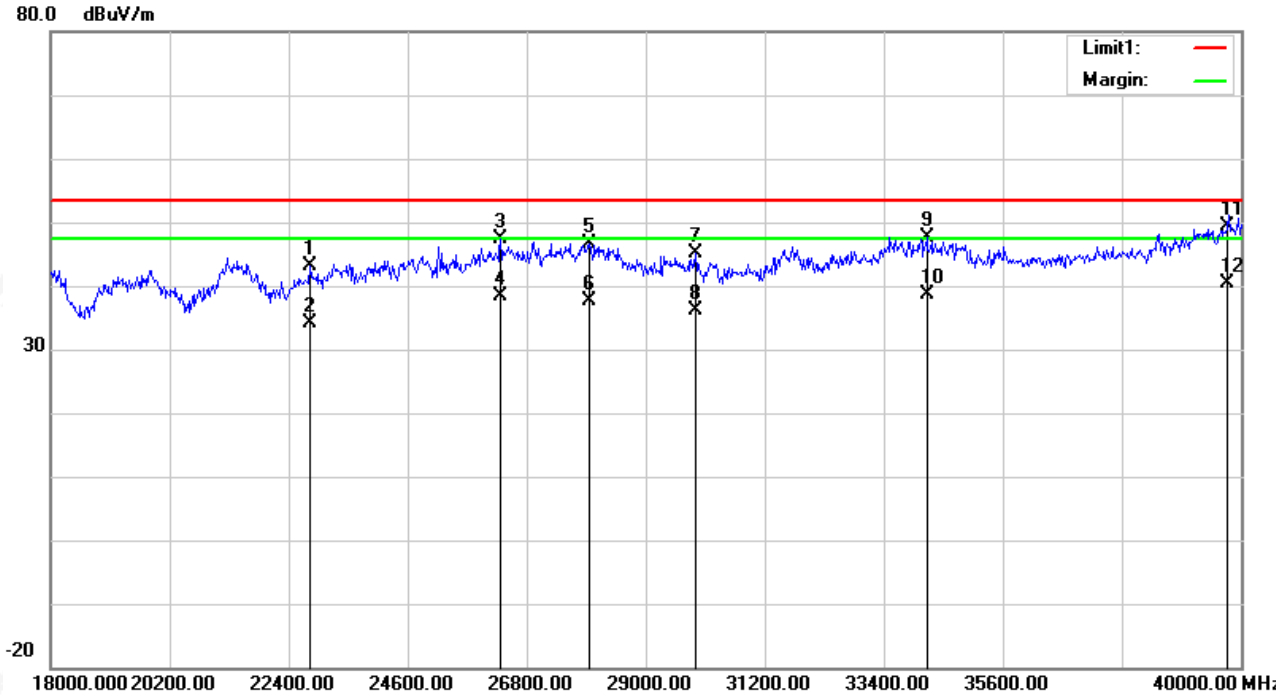
Remark:
7. Margin = Result (Result =Reading + Factor)–Limit
8. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Vertical
Test Mode:	CH 2(18000 MHz -40000MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	22796.000	29.55	13.65	43.20	53.44	-10.24	peak
2	22796.000	20.55	13.65	34.20	53.44	-19.24	RMS
3	26316.000	29.18	18.13	47.31	53.44	-6.13	peak
4	26316.000	20.18	18.13	38.31	53.44	-15.13	RMS
5	27944.000	27.05	19.60	46.65	53.44	-6.79	peak
6	27944.000	18.05	19.60	37.65	53.44	-15.79	RMS
7	29924.000	28.95	16.07	45.02	53.44	-8.42	peak
8	29924.000	19.95	16.07	36.02	53.44	-17.42	RMS
9	34192.000	31.85	15.89	47.74	53.44	-5.70	peak
10	34192.000	22.85	15.89	38.74	53.44	-14.70	RMS
11	39758.000	30.76	18.62	49.38	53.44	-4.06	peak
12	39758.000	21.76	18.62	40.38	53.44	-13.06	RMS

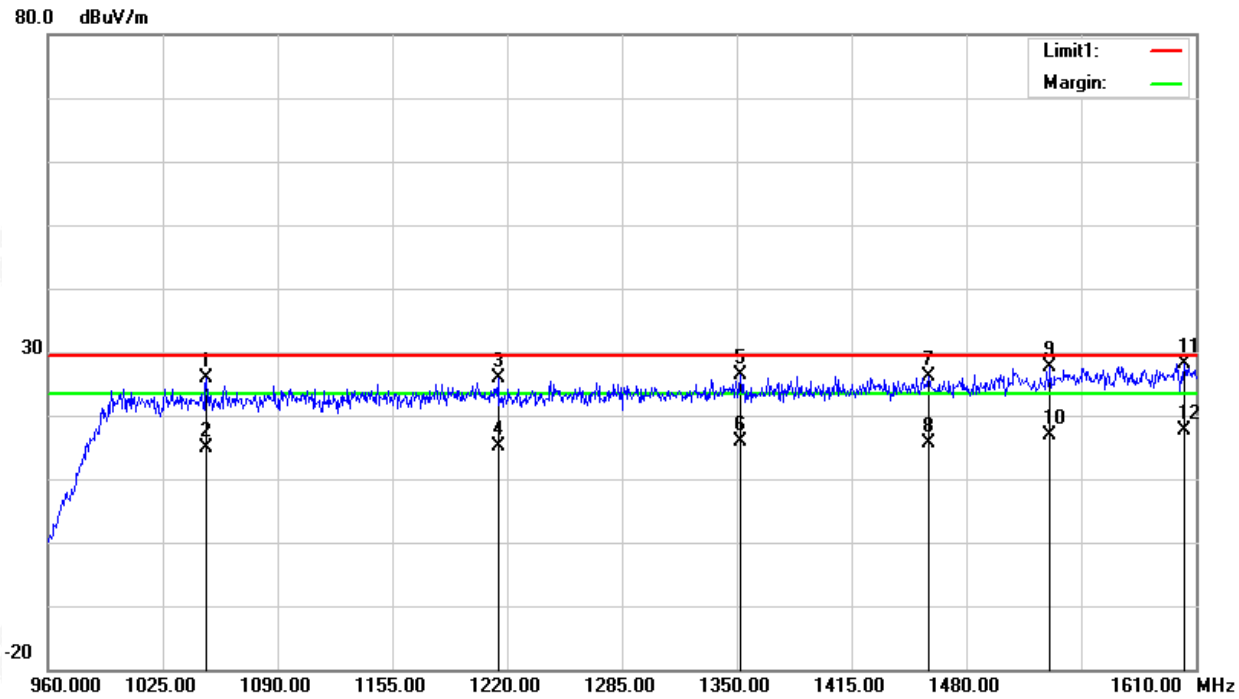
Remark:
7. Margin = Result (Result =Reading + Factor)–Limit
8. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Horizontal
Test Mode:	CH 3(960MHz -1610MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1049.700	27.14	-1.37	25.77	29.44	-3.67	peak
2	1049.700	16.26	-1.37	14.89	29.44	-14.55	RMS
3	1214.800	26.44	-0.44	26.00	29.44	-3.44	peak
4	1214.800	15.69	-0.44	15.25	29.44	-14.19	RMS
5	1351.950	26.22	0.07	26.29	29.44	-3.15	peak
6	1351.950	15.88	0.07	15.95	29.44	-13.49	RMS
7	1458.550	25.08	0.99	26.07	29.44	-3.37	peak
8	1458.550	14.75	0.99	15.74	29.44	-13.70	RMS
9	1527.450	25.43	2.13	27.56	29.44	-1.88	peak
10	1527.450	14.72	2.13	16.85	29.44	-12.59	RMS
11	1603.500	24.00	4.24	28.24	29.44	-1.20	peak
12	1603.500	13.40	4.24	17.64	29.44	-11.80	RMS

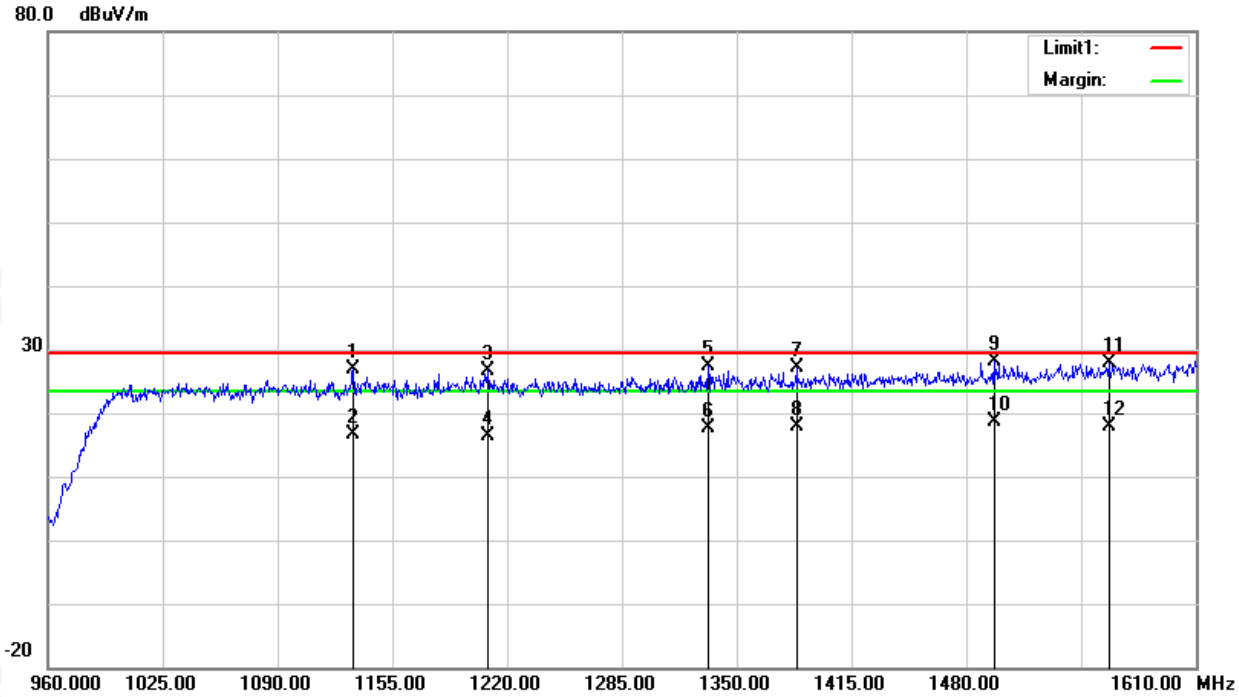
Remark:
5. Margin = Result (Result =Reading + Factor)–Limit
6. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Vertical
Test Mode:	CH 3(960MHz -1610MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1132.900	27.97	-0.97	27.00	29.44	-2.44	peak
2	1132.900	17.51	-0.97	16.54	29.44	-12.90	RMS
3	1208.950	27.12	-0.43	26.69	29.44	-2.75	peak
4	1208.950	16.71	-0.43	16.28	29.44	-13.16	RMS
5	1333.750	27.27	-0.01	27.26	29.44	-2.18	peak
6	1333.750	17.65	-0.01	17.64	29.44	-11.80	RMS
7	1383.800	26.82	0.20	27.02	29.44	-2.42	peak
8	1383.800	17.65	0.20	17.85	29.44	-11.59	RMS
9	1495.600	26.69	1.42	28.11	29.44	-1.33	peak
10	1495.600	17.18	1.42	18.60	29.44	-10.84	RMS
11	1560.600	24.99	3.00	27.99	29.44	-1.45	peak
12	1560.600	14.96	3.00	17.96	29.44	-11.48	RMS

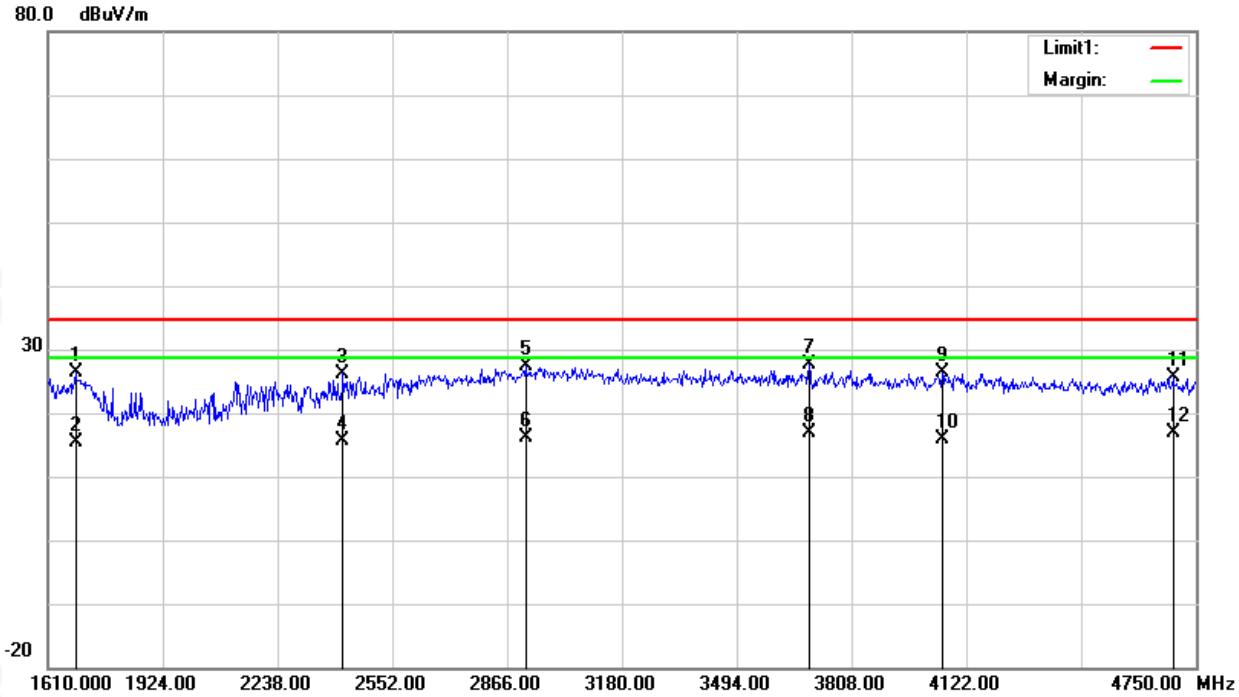
Remark:
5. Margin = Result (Result =Reading + Factor)–Limit
6. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Horizontal
Test Mode:	CH 3(1610MHz – 4750MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1685.360	21.38	4.93	26.31	34.74	-8.43	peak
2	1685.360	10.48	4.93	15.41	34.74	-19.33	RMS
3	2416.980	21.75	4.50	26.25	34.74	-8.49	peak
4	2416.980	11.15	4.50	15.65	34.74	-19.09	RMS
5	2916.240	20.69	6.80	27.49	34.74	-7.25	peak
6	2916.240	9.35	6.80	16.15	34.74	-18.59	RMS
7	3691.820	-1.22	28.96	27.74	34.74	-7.00	peak
8	3691.820	-12.11	28.96	16.85	34.74	-17.89	RMS
9	4056.060	-3.38	29.80	26.42	34.74	-8.32	peak
10	4056.060	-13.86	29.80	15.94	34.74	-18.80	RMS
11	4687.200	-5.33	30.97	25.64	34.74	-9.10	peak
12	4687.200	-14.13	30.97	16.84	34.74	-17.90	RMS

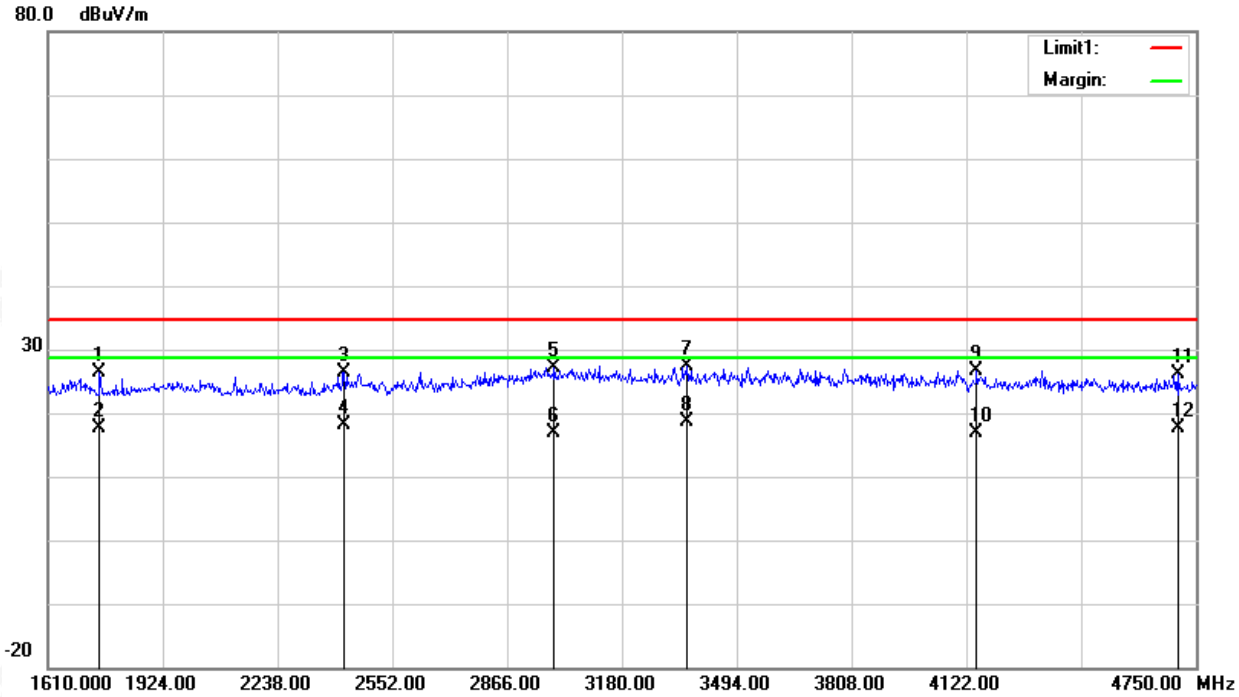
Remark:
5. Margin = Result (Result =Reading + Factor)–Limit
6. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Vertical
Test Mode:	CH 3(1610MHz – 4750MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1751.300	22.69	3.62	26.31	34.74	-8.43	peak
2	1751.300	13.92	3.62	17.54	34.74	-17.20	RMS
3	2420.120	21.86	4.50	26.36	34.74	-8.38	peak
4	2420.120	13.75	4.50	18.25	34.74	-16.49	RMS
5	2994.740	20.10	7.03	27.13	34.74	-7.61	peak
6	2994.740	9.86	7.03	16.89	34.74	-17.85	RMS
7	3358.980	-1.13	28.42	27.29	34.74	-7.45	peak
8	3358.980	-9.84	28.42	18.58	34.74	-16.16	RMS
9	4150.260	-3.30	29.97	26.67	34.74	-8.07	peak
10	4150.260	-13.13	29.97	16.84	34.74	-17.90	RMS
11	4699.760	-4.81	31.00	26.19	34.74	-8.55	peak
12	4699.760	-13.44	31.00	17.56	34.74	-17.18	RMS

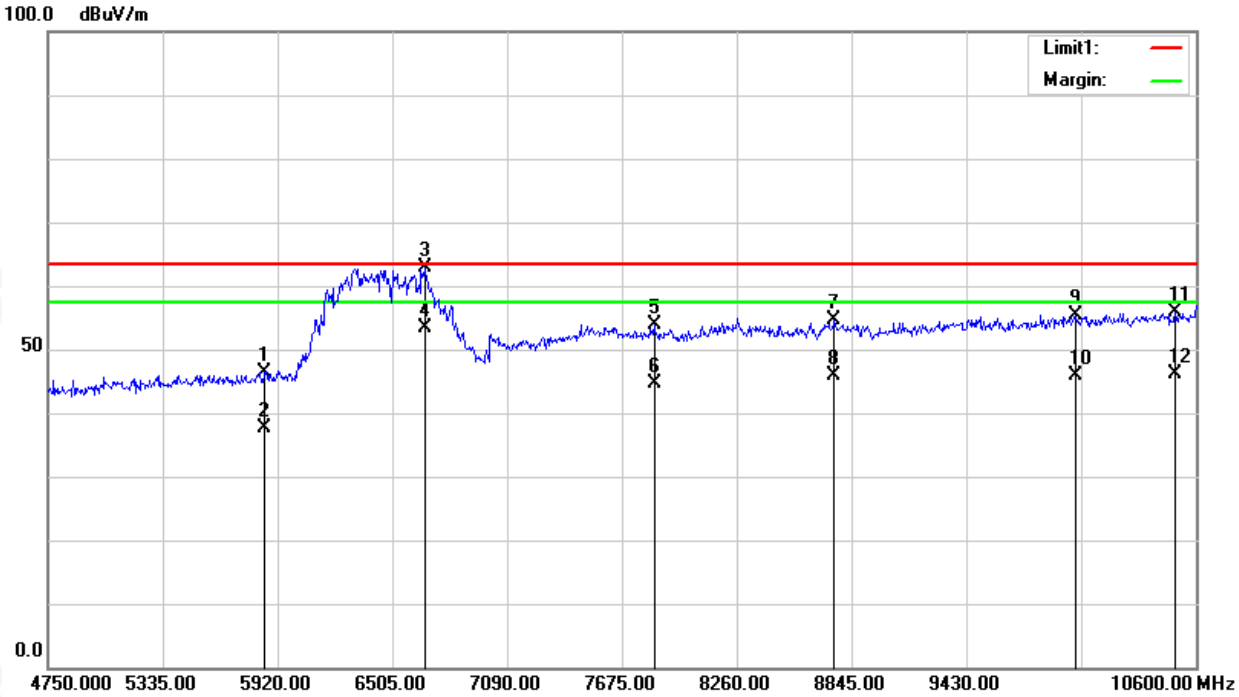
Remark:
5. Margin = Result (Result =Reading + Factor)–Limit
6. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Horizontal
Test Mode:	CH 3(4750MHz – 10600MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5855.650	50.55	-4.07	46.48	63.44	-16.96	peak
2	5855.650	41.61	-4.07	37.54	63.44	-25.90	RMS
3	6668.800	64.13	-1.25	62.88	63.44	-0.56	peak
4	6668.800	54.73	-1.25	53.48	63.44	-9.96	RMS
5	7838.800	51.91	2.00	53.91	63.44	-9.53	peak
6	7838.800	42.54	2.00	44.54	63.44	-18.90	RMS
7	8757.250	51.97	2.58	54.55	63.44	-8.89	peak
8	8757.250	43.26	2.58	45.84	63.44	-17.60	RMS
9	9985.750	52.12	3.35	55.47	63.44	-7.97	peak
10	9985.750	42.49	3.35	45.84	63.44	-17.60	RMS
11	10494.700	50.86	4.95	55.81	63.44	-7.63	peak
12	10494.700	41.30	4.95	46.25	63.44	-17.19	RMS

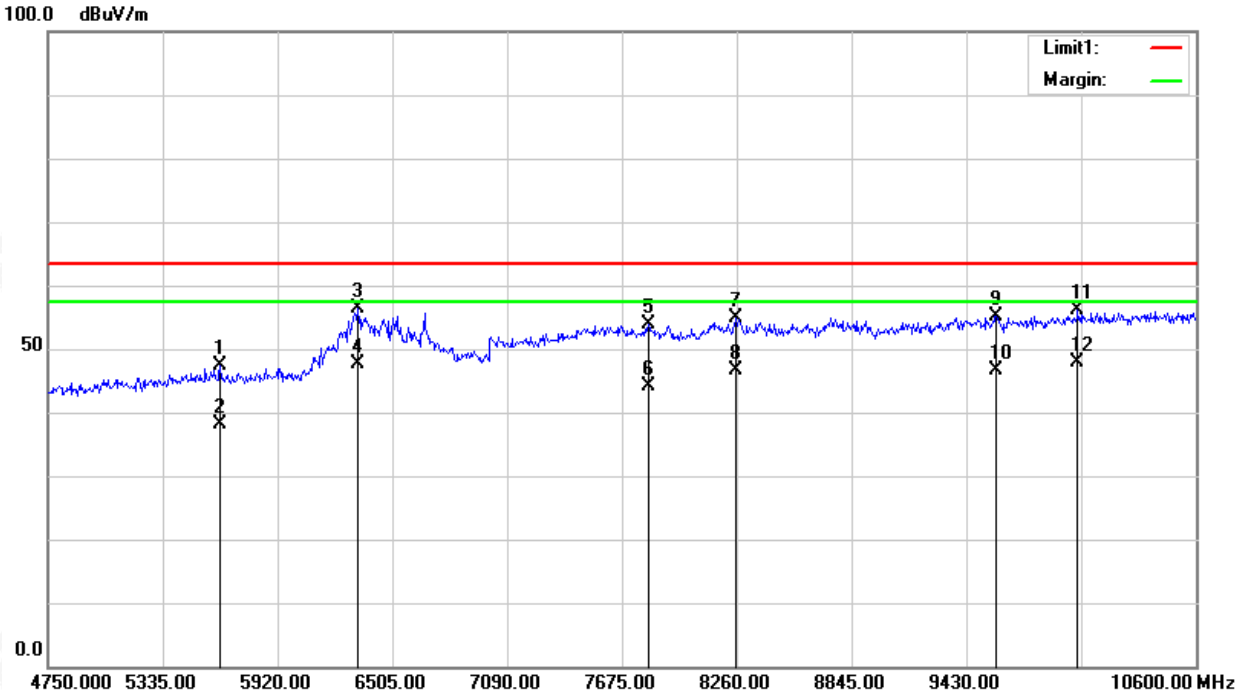
Remark:
5. Margin = Result (Result =Reading + Factor)–Limit
6. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Vertical
Test Mode:	CH 3(4750MHz – 10600MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5627.500	51.95	-4.69	47.26	63.44	-16.18	peak
2	5627.500	42.84	-4.69	38.15	63.44	-25.29	RMS
3	6329.500	58.71	-2.37	56.34	63.44	-7.10	peak
4	6329.500	49.95	-2.37	47.58	63.44	-15.86	RMS
5	7809.550	51.98	1.96	53.94	63.44	-9.50	peak
6	7809.550	42.29	1.96	44.25	63.44	-19.19	RMS
7	8254.150	52.38	2.45	54.83	63.44	-8.61	peak
8	8254.150	44.19	2.45	46.64	63.44	-16.80	RMS
9	9582.100	51.84	3.18	55.02	63.44	-8.42	peak
10	9582.100	43.54	3.18	46.72	63.44	-16.72	RMS
11	9997.450	52.67	3.36	56.03	63.44	-7.41	peak
12	9997.450	44.59	3.36	47.95	63.44	-15.49	RMS

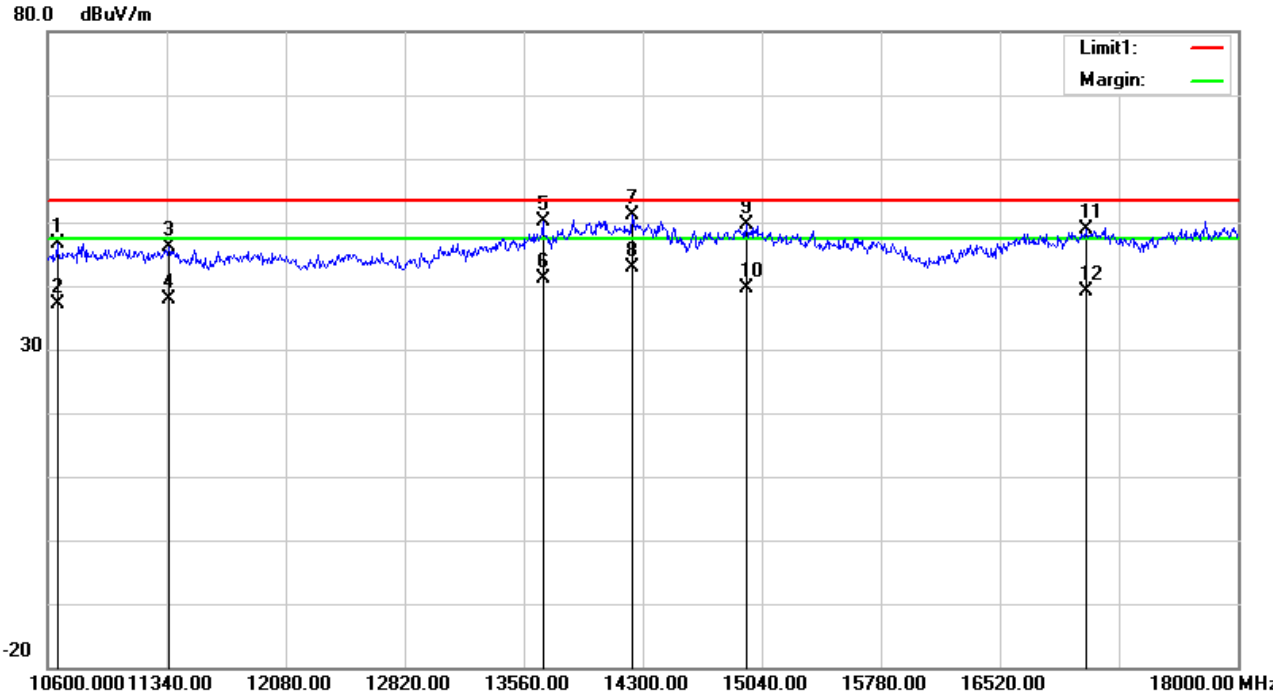
Remark:
5. Margin = Result (Result =Reading + Factor)–Limit
6. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Horizontal
Test Mode:	CH 3(10600MHz – 18000MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10659.200	41.26	5.39	46.65	53.44	-6.79	peak
2	10659.200	31.71	5.39	37.10	53.44	-16.34	RMS
3	11354.800	39.76	6.37	46.13	53.44	-7.31	peak
4	11354.800	31.48	6.37	37.85	53.44	-15.59	RMS
5	13678.400	39.67	10.57	50.24	53.44	-3.20	peak
6	13678.400	30.67	10.57	41.24	53.44	-12.20	RMS
7	14233.400	39.33	11.90	51.23	53.44	-2.21	peak
8	14233.400	30.95	11.90	42.85	53.44	-10.59	RMS
9	14943.800	39.52	10.21	49.73	53.44	-3.71	peak
10	14943.800	29.38	10.21	39.59	53.44	-13.85	RMS
11	17052.800	38.36	10.54	48.90	53.44	-4.54	peak
12	17052.800	28.61	10.54	39.15	53.44	-14.29	RMS

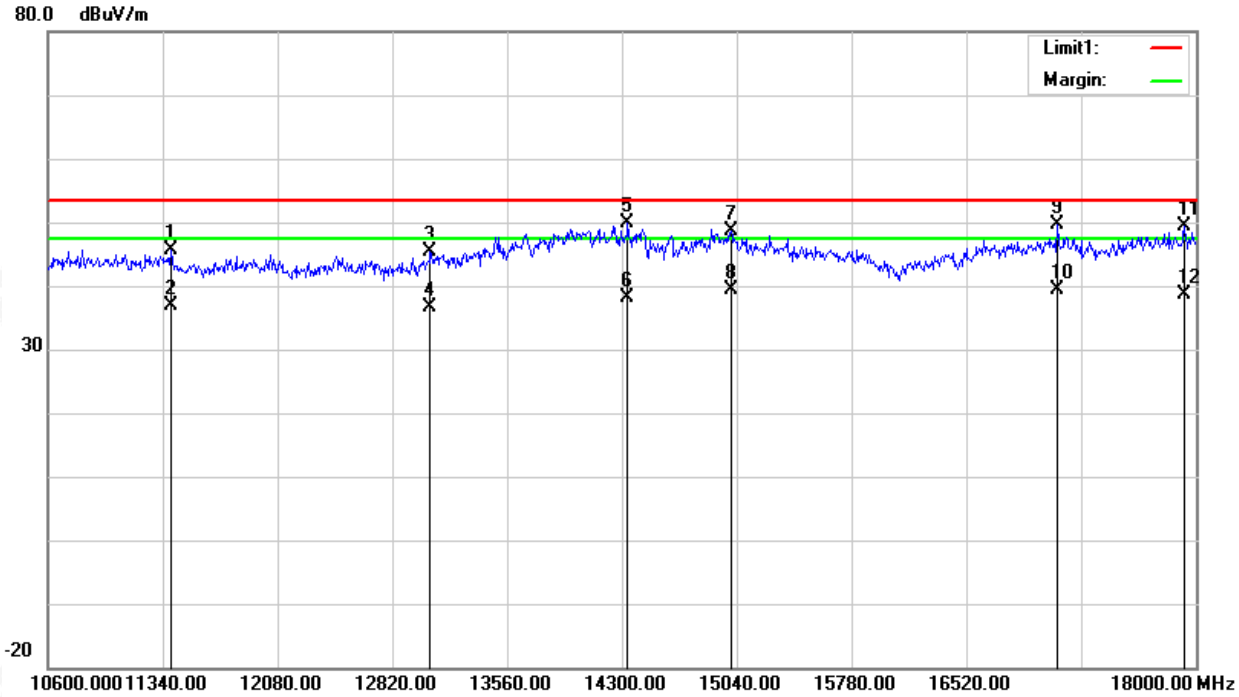
Remark:
5. Margin = Result (Result =Reading + Factor)–Limit
6. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Vertical
Test Mode:	CH 3(10600MHz – 18000MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11391.800	39.23	6.39	45.62	53.44	-7.82	peak
2	11391.800	30.55	6.39	36.94	53.44	-16.50	RMS
3	13064.200	38.39	6.96	45.35	53.44	-8.09	peak
4	13064.200	29.62	6.96	36.58	53.44	-16.86	RMS
5	14337.000	38.12	11.70	49.82	53.44	-3.62	peak
6	14337.000	26.54	11.70	38.24	53.44	-15.20	RMS
7	15003.000	38.61	10.06	48.67	53.44	-4.77	peak
8	15003.000	29.42	10.06	39.48	53.44	-13.96	RMS
9	17104.600	39.75	9.99	49.74	53.44	-3.70	peak
10	17104.600	29.42	9.99	39.41	53.44	-14.03	RMS
11	17926.000	37.55	11.85	49.40	53.44	-4.04	peak
12	17926.000	26.67	11.85	38.52	53.44	-14.92	RMS

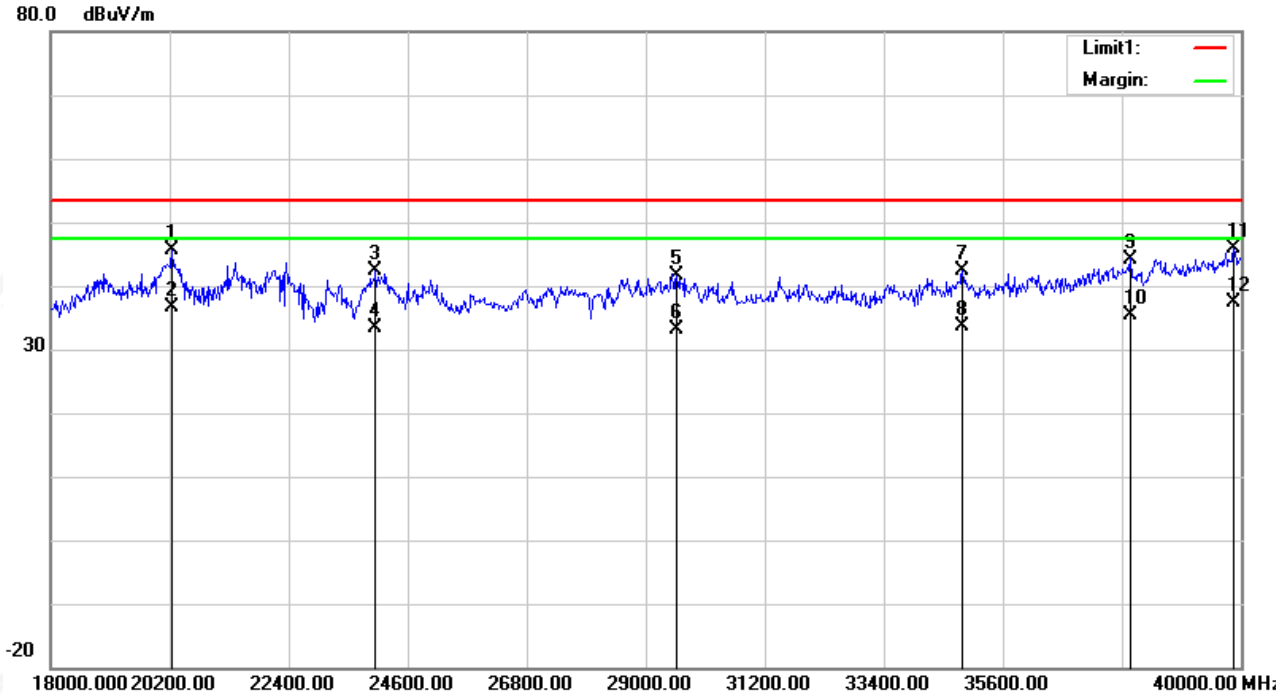
Remark:
5. Margin = Result (Result =Reading + Factor)–Limit
6. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Horizontal
Test Mode:	CH 3(18000MHz – 40000MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	20244.000	32.91	12.67	45.58	53.44	-7.86	peak
2	20244.000	23.91	12.67	36.58	53.44	-16.86	RMS
3	24006.000	26.13	16.13	42.26	53.44	-11.18	peak
4	24006.000	17.13	16.13	33.26	53.44	-20.18	RMS
5	29572.000	25.00	16.72	41.72	53.44	-11.72	peak
6	29572.000	16.50	16.72	33.22	53.44	-20.22	RMS
7	34852.000	26.18	16.17	42.35	53.44	-11.09	peak
8	34852.000	17.48	16.17	33.65	53.44	-19.79	RMS
9	37954.000	26.61	17.64	44.25	53.44	-9.19	peak
10	37954.000	17.75	17.64	35.39	53.44	-18.05	RMS
11	39868.000	27.08	18.68	45.76	53.44	-7.68	peak
12	39868.000	18.80	18.68	37.48	53.44	-15.96	RMS

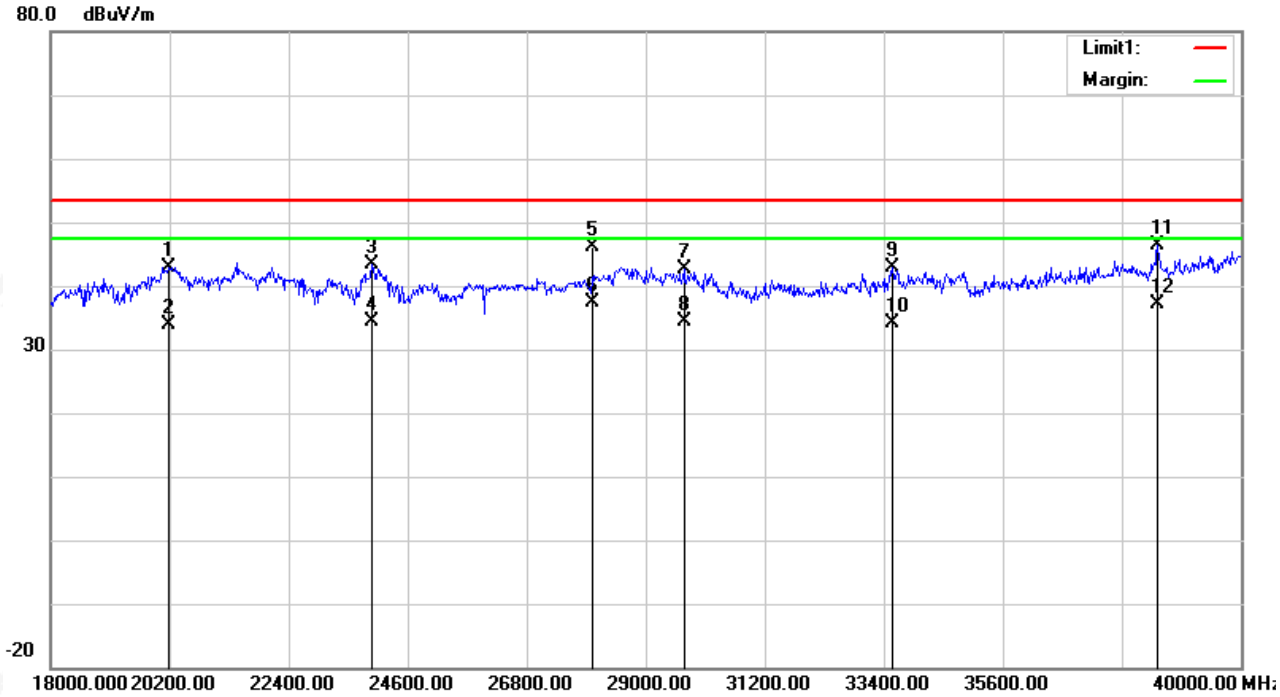
Remark:
9. Margin = Result (Result =Reading + Factor)–Limit
10. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Vertical
Test Mode:	CH 3(18000MHz – 40000MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	20178.000	29.63	13.28	42.91	53.44	-10.53	peak
2	20178.000	20.63	13.28	33.91	53.44	-19.53	RMS
3	23940.000	27.23	16.05	43.28	53.44	-10.16	peak
4	23940.000	18.23	16.05	34.28	53.44	-19.16	RMS
5	28010.000	26.50	19.64	46.14	53.44	-7.30	peak
6	28010.000	17.75	19.64	37.39	53.44	-16.05	RMS
7	29704.000	26.16	16.48	42.64	53.44	-10.80	peak
8	29704.000	17.82	16.48	34.30	53.44	-19.14	RMS
9	33554.000	27.14	15.73	42.87	53.44	-10.57	peak
10	33554.000	18.48	15.73	34.21	53.44	-19.23	RMS
11	38460.000	28.35	17.91	46.26	53.44	-7.18	peak
12	38460.000	19.28	17.91	37.19	53.44	-16.25	RMS

Remark:
9. Margin = Result (Result =Reading + Factor)–Limit
10. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



3.3 RADIATED EMISSION MEASUREMENT (FOR 15.517(d)&RSS 220 5.2.1(e))

3.3.1 RADIATED EMISSION LIMITS

Frequency of Emission (MHz)	**EIRP (dBm)**	**Field Strength (dBuV/m@3m)**	**Field Strength (dBuV/m@1m)**
1164~1240	-85.3	10	19.54
1559~1610	-85.3	10	19.54

Notes: 1. Transfer rules follow 15.521(g),15.31(f)(1).
2. 15.521(g) converted to a peak field strength level at 3 meters using E(dBuV/m) = P(dBmEIRP) + 95.2.
3. dBuV/m@1m= dBuV/m@3m+20*log(3/1)

UWB transmitters operating under the provisions of this section shall not exceed the following average limits when measured using a resolution bandwidth of no less than 1 kHz:

Frequency Range	RBW	VBW	Detector	Measurement Distance
1164~1240	1kHz	3kHz	RMS	1 Meter
1559~1610	1kHz	3kHz	RMS	1 Meter

3.3.2 TEST PROCEDURE

a. The measuring distance of 1m shall be used for measurements. The EUT was placed on the top of arotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The height of the test antenna shall vary between 1m to 4m.Both horizontal and vertical polarization of the antenna are set to make the measurement.

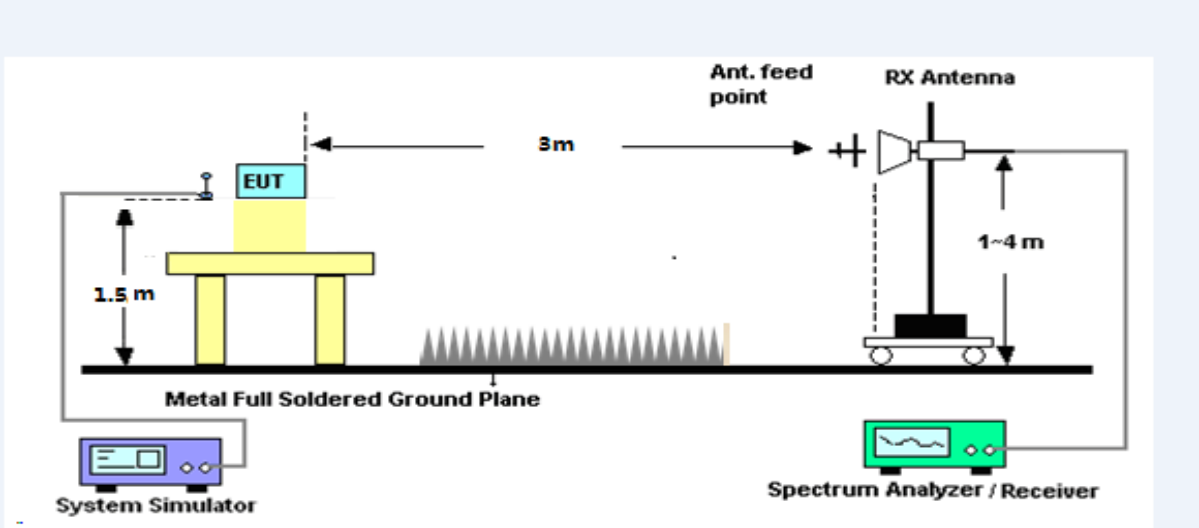
c. All readings are RMS mode value , for each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading . (Above 960MHz)

d. 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.

3.3.3 DEVIATION FROM TEST STANDARD

No deviation

3.3.4 TEST SETUP



3.3.5 FIELD STRENGTH CALCULATION

Same as 3.2.5

3.3.6 EUT OPERATING CONDITIONS

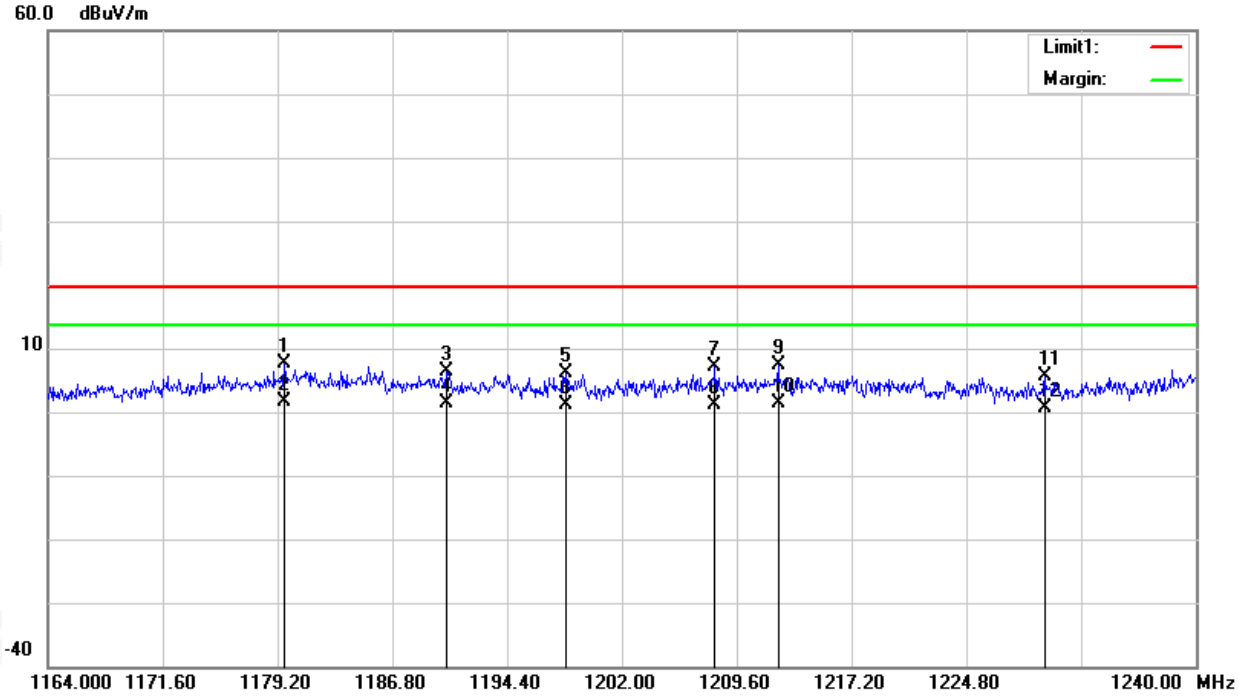
Same as 3.2.6

3.3.7 TEST RESULTS

Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Horizontal
Test Mode:	CH 1(1164Hz – 1240MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1179.656	8.32	-0.63	7.69	19.54	-11.85	peak
2	1179.656	2.32	-0.63	1.69	19.54	-17.85	RMS
3	1190.372	6.82	-0.52	6.30	19.54	-13.24	peak
4	1190.372	1.82	-0.52	1.30	19.54	-18.24	RMS
5	1198.276	6.57	-0.43	6.14	19.54	-13.40	peak
6	1198.276	1.57	-0.43	1.14	19.54	-18.40	RMS
7	1208.156	7.54	-0.44	7.10	19.54	-12.44	peak
8	1208.156	1.54	-0.44	1.10	19.54	-18.44	RMS
9	1212.336	7.73	-0.44	7.29	19.54	-12.25	peak
10	1212.336	1.73	-0.44	1.29	19.54	-18.25	RMS
11	1229.968	6.07	-0.48	5.59	19.54	-13.95	peak
12	1229.968	1.07	-0.48	0.59	19.54	-18.95	RMS

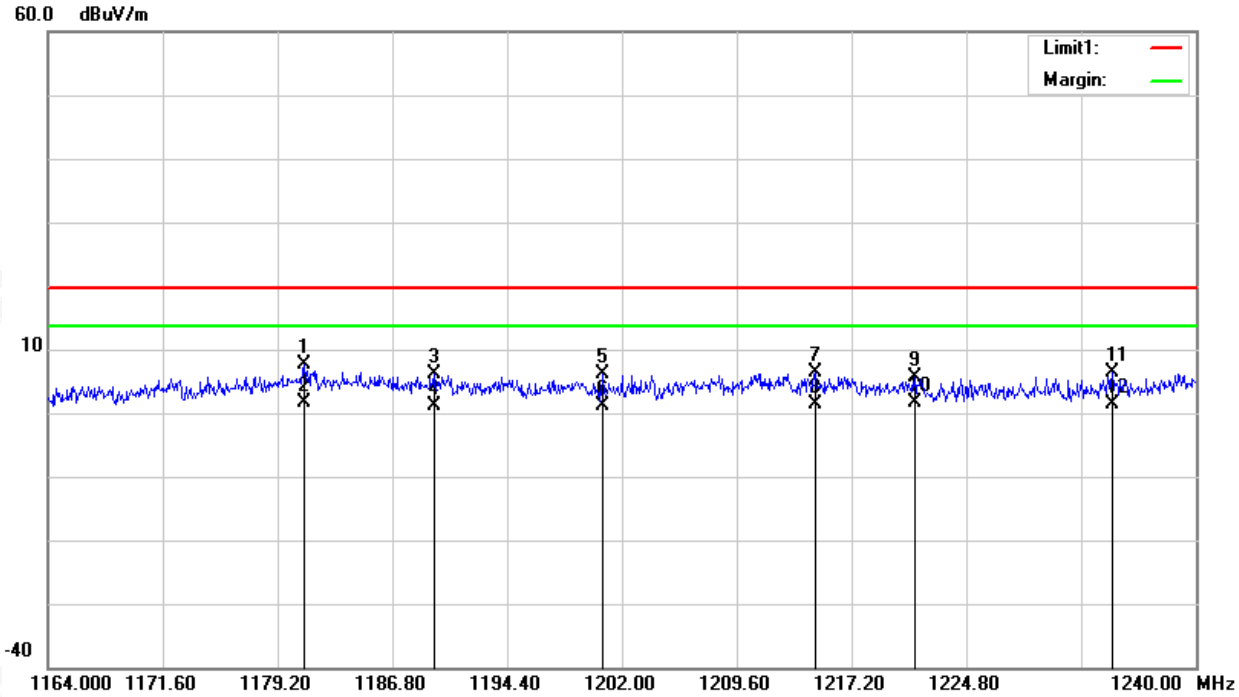
Remark:
1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Vertical
Test Mode:	CH 1(1164Hz – 1240MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1180.948	8.34	-0.61	7.73	19.54	-11.81	peak
2	1180.948	2.34	-0.61	1.73	19.54	-17.81	RMS
3	1189.536	6.54	-0.53	6.01	19.54	-13.53	peak
4	1189.536	1.54	-0.53	1.01	19.54	-18.53	RMS
5	1200.708	6.56	-0.42	6.14	19.54	-13.40	peak
6	1200.708	1.56	-0.42	1.14	19.54	-18.40	RMS
7	1214.768	6.93	-0.44	6.49	19.54	-13.05	peak
8	1214.768	1.93	-0.44	1.49	19.54	-18.05	RMS
9	1221.380	6.04	-0.46	5.58	19.54	-13.96	peak
10	1221.380	2.04	-0.46	1.58	19.54	-17.96	RMS
11	1234.452	6.74	-0.48	6.26	19.54	-13.28	peak
12	1234.452	1.74	-0.48	1.26	19.54	-18.28	RMS

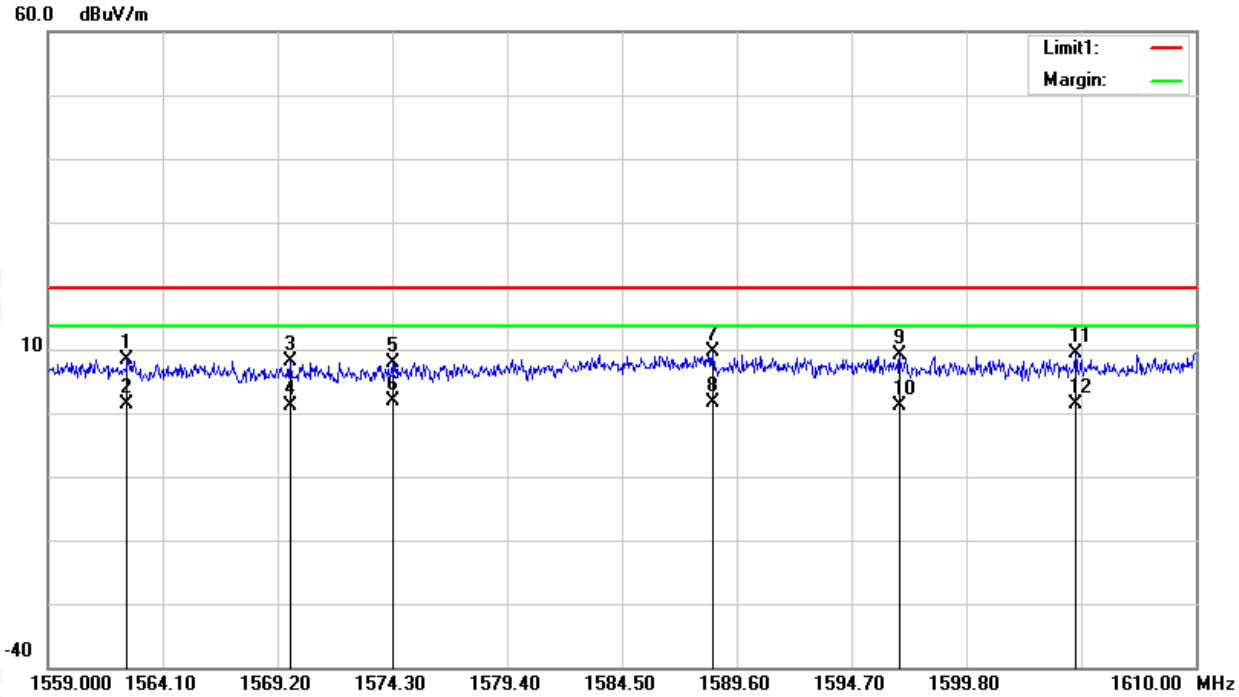
Remark:
1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Horizontal
Test Mode:	CH 1(1559Hz – 1610MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1562.519	5.41	3.07	8.48	19.54	-11.06	peak
2	1562.519	-1.59	3.07	1.48	19.54	-18.06	RMS
3	1569.761	4.78	3.29	8.07	19.54	-11.47	peak
4	1569.761	-2.22	3.29	1.07	19.54	-18.47	RMS
5	1574.300	4.53	3.44	7.97	19.54	-11.57	peak
6	1574.300	-1.47	3.44	1.97	19.54	-17.57	RMS
7	1588.529	5.69	3.88	9.57	19.54	-9.97	peak
8	1588.529	-2.31	3.88	1.57	19.54	-17.97	RMS
9	1596.842	5.09	4.14	9.23	19.54	-10.31	peak
10	1596.842	-2.91	4.14	1.23	19.54	-18.31	RMS
11	1604.645	5.22	4.24	9.46	19.54	-10.08	peak
12	1604.645	-2.78	4.24	1.46	19.54	-18.08	RMS

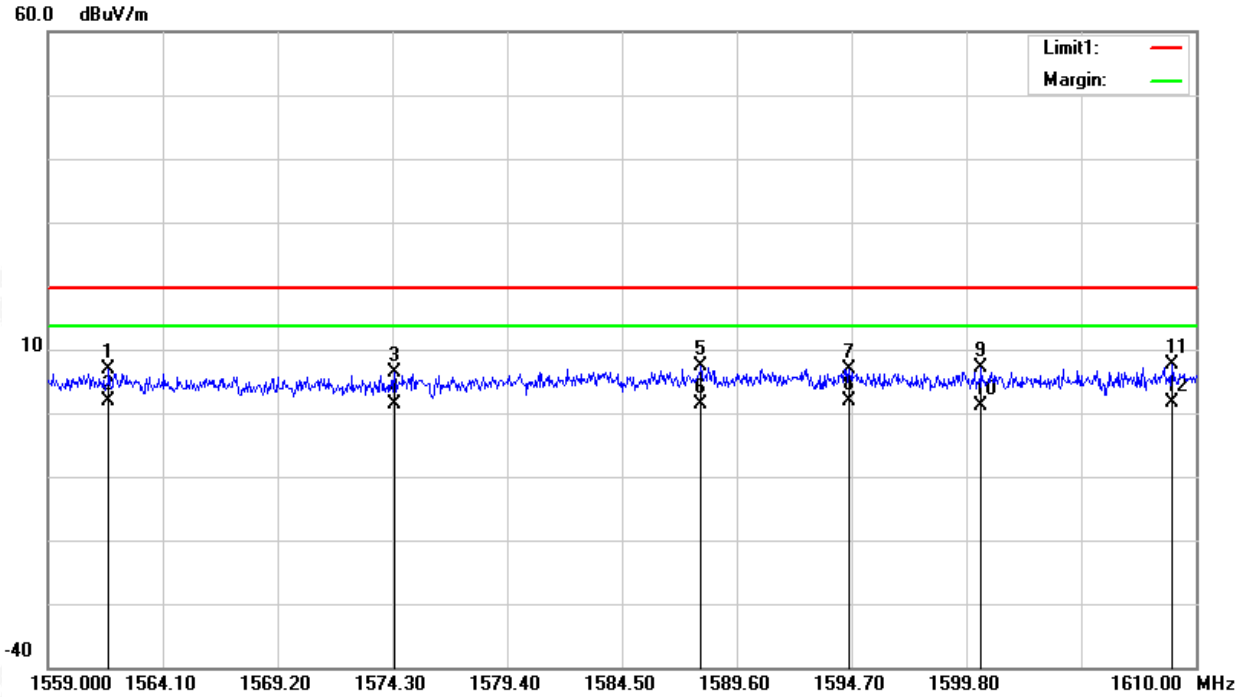
Remark:
1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Vertical
Test Mode:	CH 1(1559Hz – 1610MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1561.703	3.85	3.04	6.89	19.54	-12.65	peak
2	1561.703	-1.15	3.04	1.89	19.54	-17.65	RMS
3	1574.402	2.95	3.44	6.39	19.54	-13.15	peak
4	1574.402	-2.05	3.44	1.39	19.54	-18.15	RMS
5	1588.019	3.49	3.86	7.35	19.54	-12.19	peak
6	1588.019	-2.51	3.86	1.35	19.54	-18.19	RMS
7	1594.598	2.86	4.07	6.93	19.54	-12.61	peak
8	1594.598	-2.14	4.07	1.93	19.54	-17.61	RMS
9	1600.463	2.83	4.24	7.07	19.54	-12.47	peak
10	1600.463	-3.17	4.24	1.07	19.54	-18.47	RMS
11	1608.929	3.28	4.23	7.51	19.54	-12.03	peak
12	1608.929	-2.72	4.23	1.51	19.54	-18.03	RMS

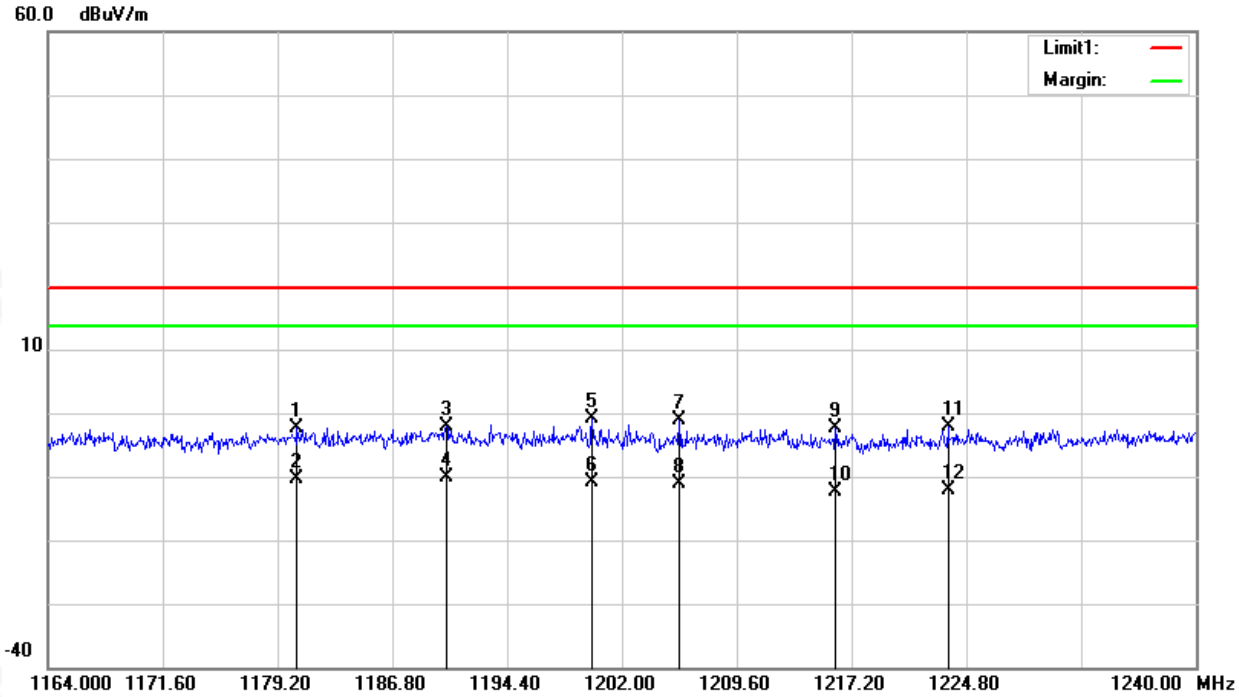
Remark:
1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Horizontal
Test Mode:	CH 2(1164Hz – 1240MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1180.492	-1.79	-0.61	-2.40	19.54	-21.94	peak
2	1180.492	-9.79	-0.61	-10.40	19.54	-29.94	RMS
3	1190.372	-1.70	-0.52	-2.22	19.54	-21.76	peak
4	1190.372	-9.70	-0.52	-10.22	19.54	-29.76	RMS
5	1200.024	-0.55	-0.42	-0.97	19.54	-20.51	peak
6	1200.024	-10.55	-0.42	-10.97	19.54	-30.51	RMS
7	1205.800	-0.61	-0.43	-1.04	19.54	-20.58	peak
8	1205.800	-10.61	-0.43	-11.04	19.54	-30.58	RMS
9	1216.136	-1.82	-0.45	-2.27	19.54	-21.81	peak
10	1216.136	-11.82	-0.45	-12.27	19.54	-31.81	RMS
11	1223.584	-1.62	-0.46	-2.08	19.54	-21.62	peak
12	1223.584	-11.62	-0.46	-12.08	19.54	-31.62	RMS

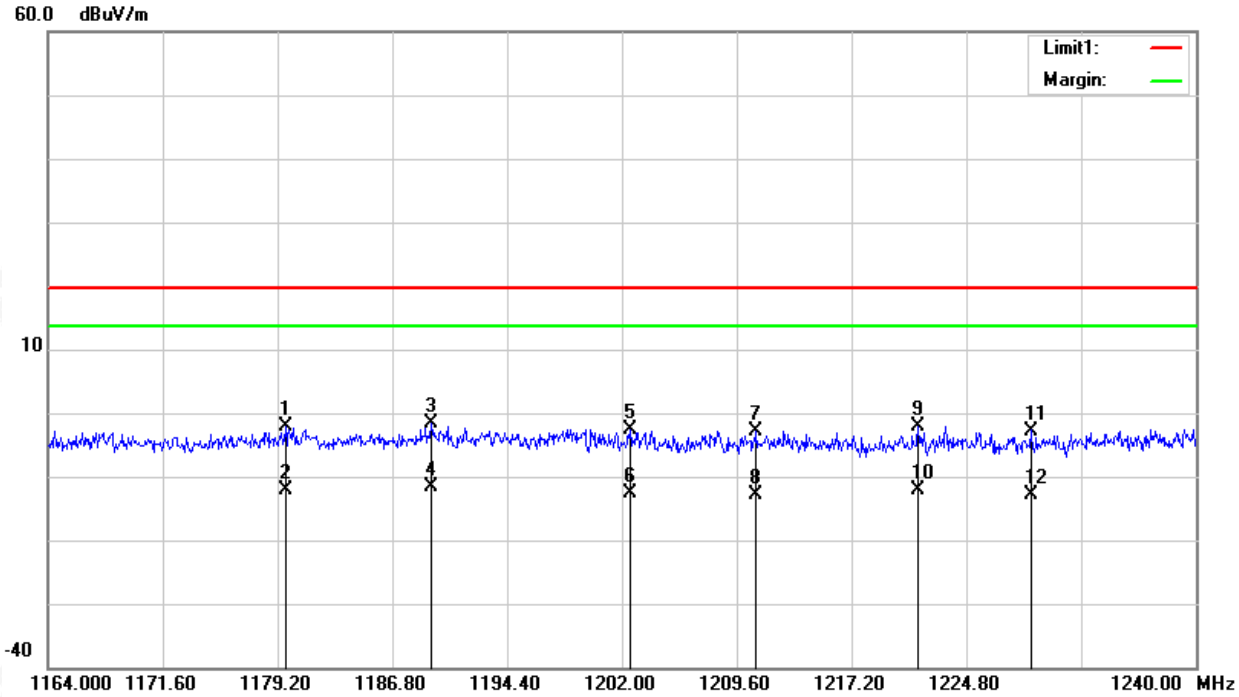
Remark:
3. Margin = Result (Result =Reading + Factor)–Limit
4. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Vertical
Test Mode:	CH 2(1164Hz – 1240MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1179.732	-1.61	-0.63	-2.24	19.54	-21.78	peak
2	1179.732	-11.61	-0.63	-12.24	19.54	-31.78	RMS
3	1189.384	-1.15	-0.53	-1.68	19.54	-21.22	peak
4	1189.384	-11.15	-0.53	-11.68	19.54	-31.22	RMS
5	1202.532	-2.19	-0.43	-2.62	19.54	-22.16	peak
6	1202.532	-12.19	-0.43	-12.62	19.54	-32.16	RMS
7	1210.892	-2.45	-0.44	-2.89	19.54	-22.43	peak
8	1210.892	-12.45	-0.44	-12.89	19.54	-32.43	RMS
9	1221.608	-1.68	-0.46	-2.14	19.54	-21.68	peak
10	1221.608	-11.68	-0.46	-12.14	19.54	-31.68	RMS
11	1229.056	-2.28	-0.47	-2.75	19.54	-22.29	peak
12	1229.056	-12.28	-0.47	-12.75	19.54	-32.29	RMS

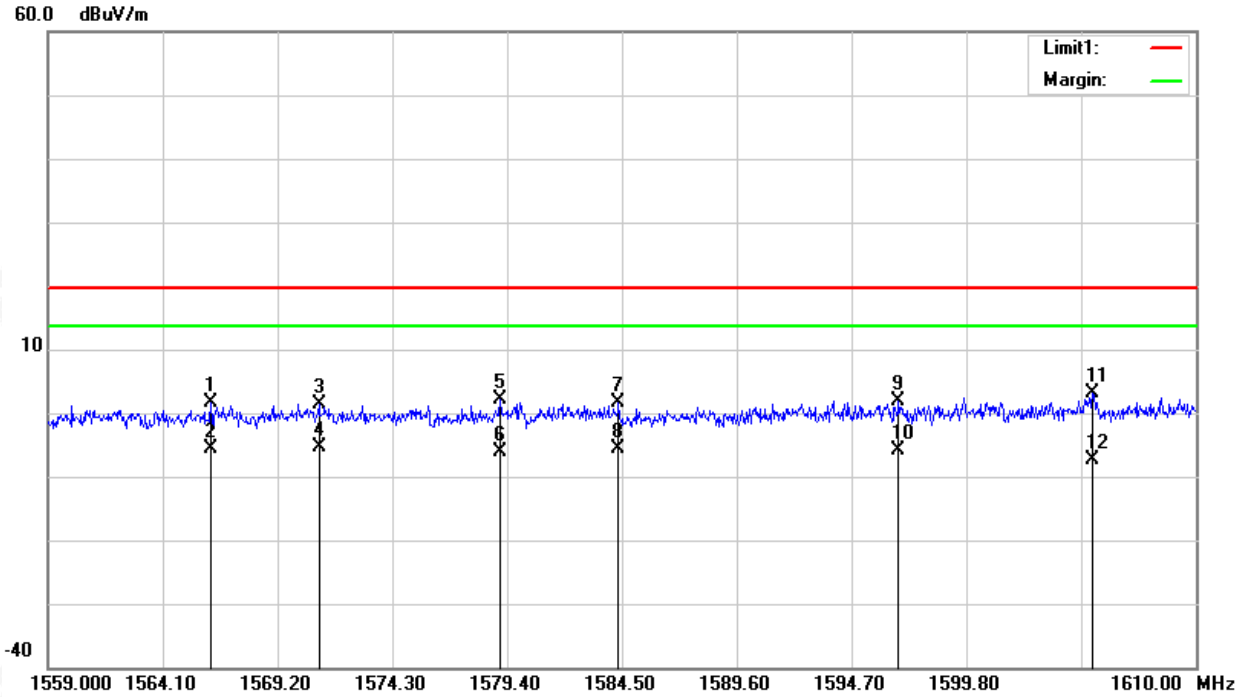
Remark:
3. Margin = Result (Result =Reading + Factor)–Limit
4. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Horizontal
Test Mode:	CH 2(1559Hz – 1610MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1566.242	-1.63	3.18	1.55	19.54	-17.99	peak
2	1566.242	-8.73	3.18	-5.55	19.54	-25.09	RMS
3	1571.036	-1.93	3.33	1.40	19.54	-18.14	peak
4	1571.036	-8.73	3.33	-5.40	19.54	-24.94	RMS
5	1579.094	-1.36	3.58	2.22	19.54	-17.32	peak
6	1579.094	-9.80	3.58	-6.22	19.54	-25.76	RMS
7	1584.347	-2.24	3.75	1.51	19.54	-18.03	peak
8	1584.347	-9.26	3.75	-5.51	19.54	-25.05	RMS
9	1596.791	-2.24	4.14	1.90	19.54	-17.64	peak
10	1596.791	-10.04	4.14	-5.90	19.54	-25.44	RMS
11	1605.410	-0.99	4.24	3.25	19.54	-16.29	peak
12	1605.410	-11.49	4.24	-7.25	19.54	-26.79	RMS

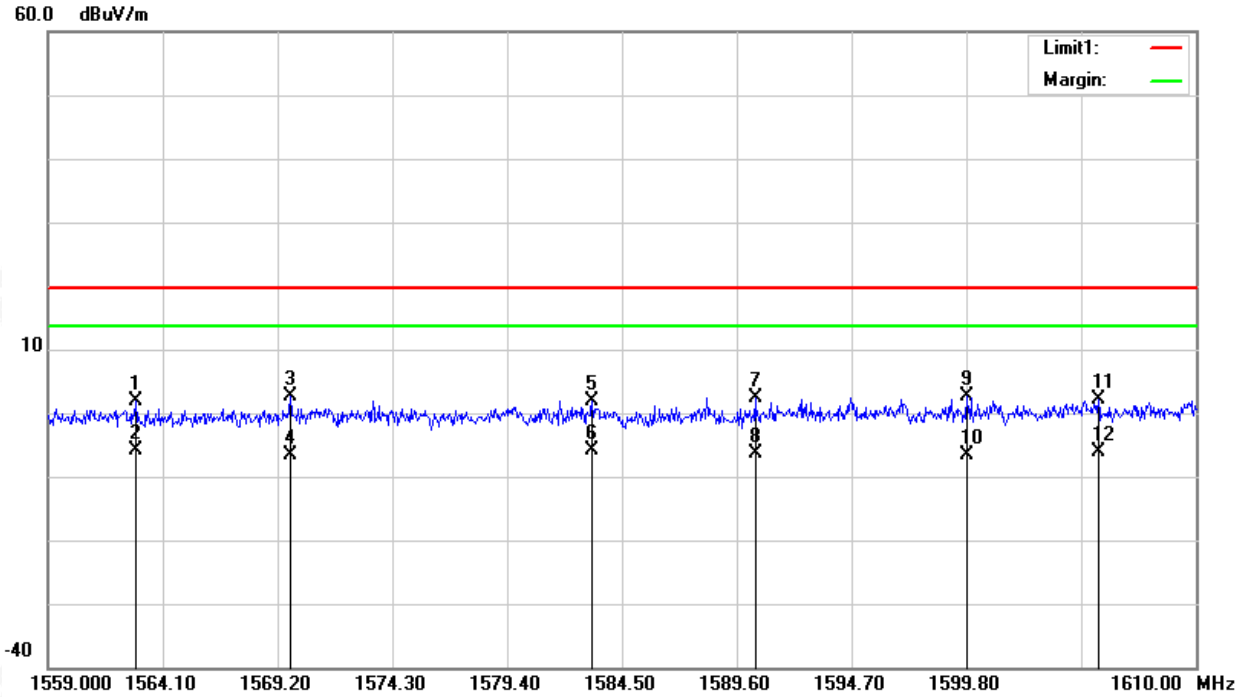
Remark:
3. Margin = Result (Result =Reading + Factor)–Limit
4. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Vertical
Test Mode:	CH 2(1559Hz – 1610MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1562.927	-1.26	3.08	1.82	19.54	-17.72	peak
2	1562.927	-8.90	3.08	-5.82	19.54	-25.36	RMS
3	1569.761	-0.62	3.29	2.67	19.54	-16.87	peak
4	1569.761	-9.96	3.29	-6.67	19.54	-26.21	RMS
5	1583.174	-1.89	3.71	1.82	19.54	-17.72	peak
6	1583.174	-9.53	3.71	-5.82	19.54	-25.36	RMS
7	1590.416	-1.46	3.94	2.48	19.54	-17.06	peak
8	1590.416	-10.42	3.94	-6.48	19.54	-26.02	RMS
9	1599.800	-1.52	4.23	2.71	19.54	-16.83	peak
10	1599.800	-10.94	4.23	-6.71	19.54	-26.25	RMS
11	1605.665	-2.14	4.24	2.10	19.54	-17.44	peak
12	1605.665	-10.34	4.24	-6.10	19.54	-25.64	RMS

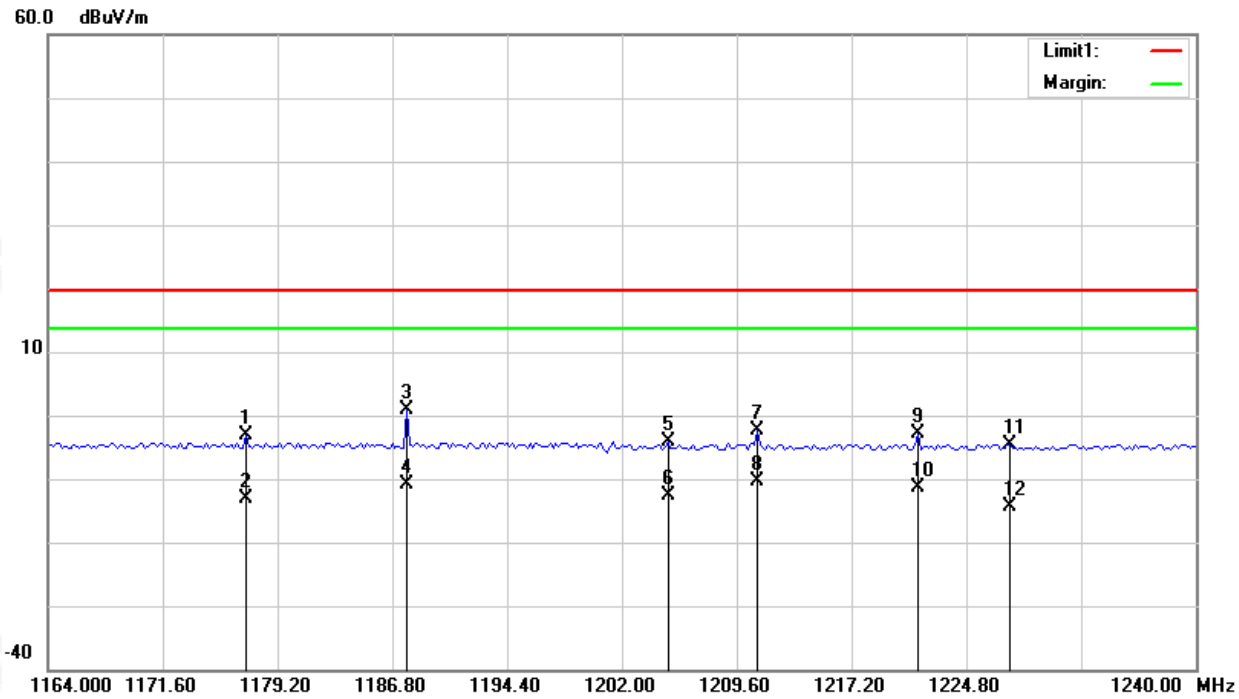
Remark:
3. Margin = Result (Result =Reading + Factor)–Limit
4. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Horizontal
Test Mode:	CH 3(1164Hz – 1240MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1177.110	-2.49	-0.65	-3.14	19.54	-22.68	peak
2	1177.110	-12.59	-0.65	-13.24	19.54	-32.78	RMS
3	1187.750	1.35	-0.54	0.81	19.54	-18.73	peak
4	1187.750	-10.31	-0.54	-10.85	19.54	-30.39	RMS
5	1205.040	-3.57	-0.43	-4.00	19.54	-23.54	peak
6	1205.040	-12.10	-0.43	-12.53	19.54	-32.07	RMS
7	1210.930	-1.95	-0.44	-2.39	19.54	-21.93	peak
8	1210.930	-9.99	-0.44	-10.43	19.54	-29.97	RMS
9	1221.570	-2.37	-0.46	-2.83	19.54	-22.37	peak
10	1221.570	-10.80	-0.46	-11.26	19.54	-30.80	RMS
11	1227.650	-4.05	-0.47	-4.52	19.54	-24.06	peak
12	1227.650	-13.81	-0.47	-14.28	19.54	-33.82	RMS

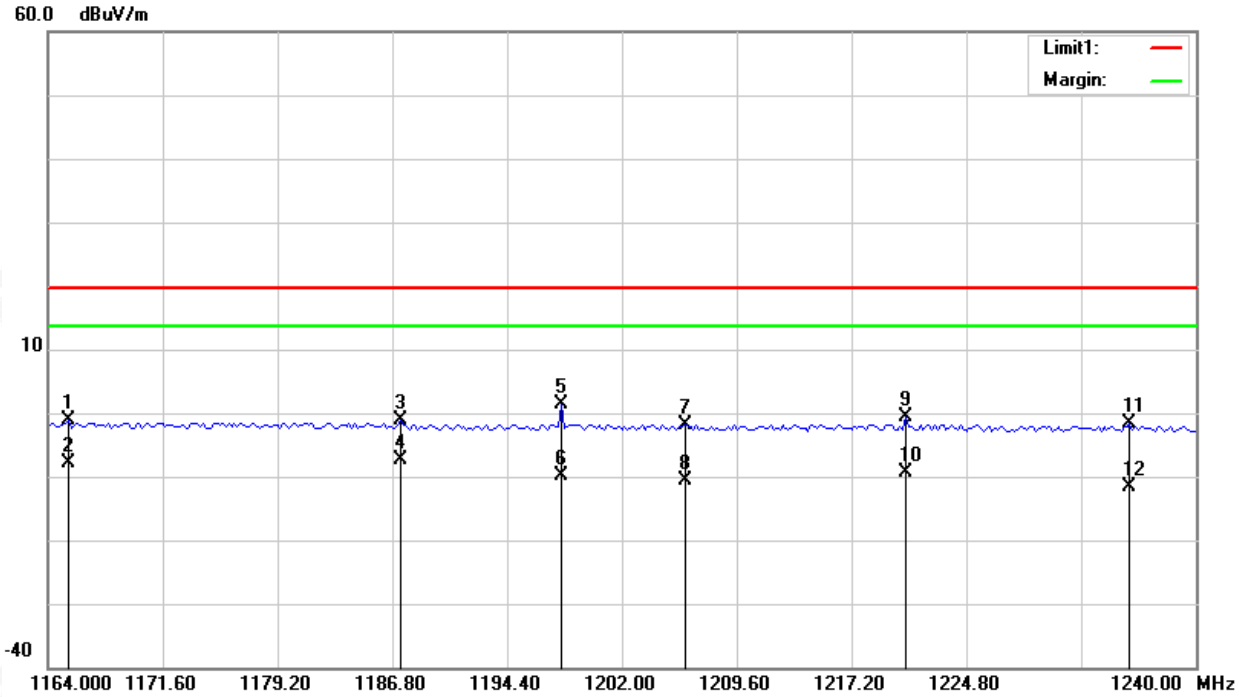
Remark:
5. Margin = Result (Result =Reading + Factor)–Limit
6. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Vertical
Test Mode:	CH 3(1164Hz – 1240MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1165.330	-0.40	-0.76	-1.16	19.54	-20.70	peak
2	1165.330	-7.09	-0.76	-7.85	19.54	-27.39	RMS
3	1187.370	-0.49	-0.54	-1.03	19.54	-20.57	peak
4	1187.370	-6.77	-0.54	-7.31	19.54	-26.85	RMS
5	1198.010	1.78	-0.44	1.34	19.54	-18.20	peak
6	1198.010	-9.31	-0.44	-9.75	19.54	-29.29	RMS
7	1206.180	-1.33	-0.43	-1.76	19.54	-21.30	peak
8	1206.180	-10.08	-0.43	-10.51	19.54	-30.05	RMS
9	1220.810	-0.26	-0.45	-0.71	19.54	-20.25	peak
10	1220.810	-8.97	-0.45	-9.42	19.54	-28.96	RMS
11	1235.630	-1.08	-0.49	-1.57	19.54	-21.11	peak
12	1235.630	-11.09	-0.49	-11.58	19.54	-31.12	RMS

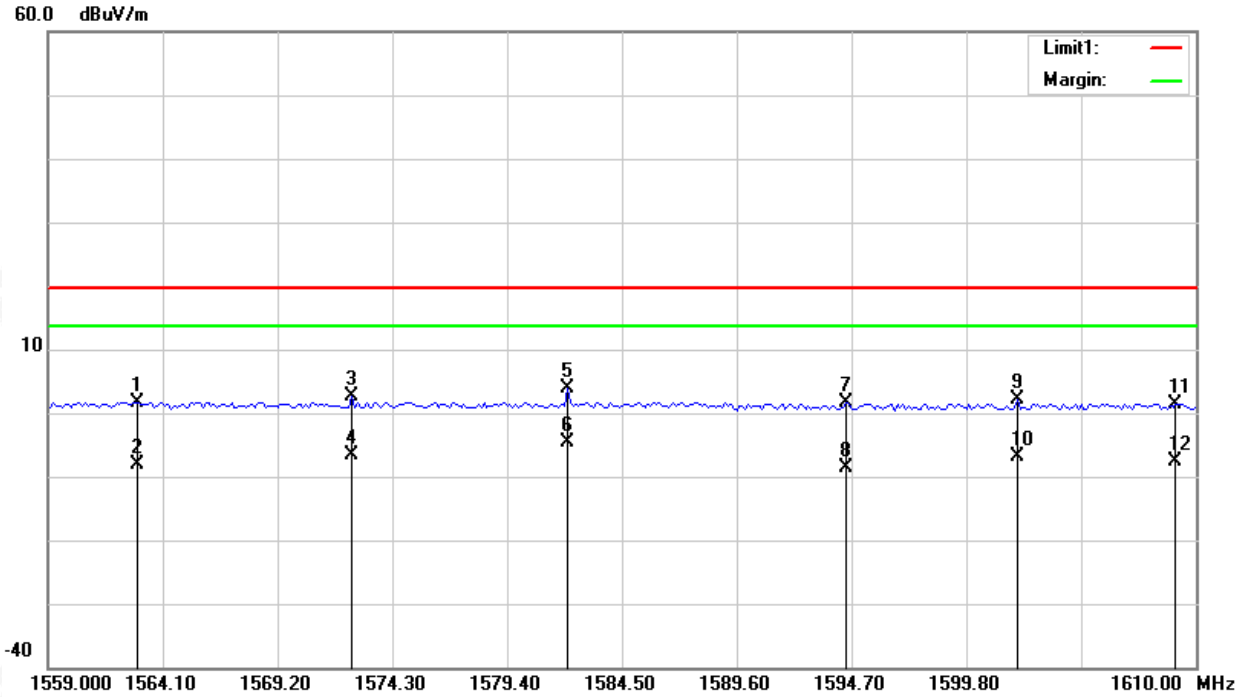
Remark:
5. Margin = Result (Result =Reading + Factor)–Limit
6. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Horizontal
Test Mode:	CH 3(1559Hz – 1610MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1562.953	-1.33	3.08	1.75	19.54	-17.79	peak
2	1562.953	-11.25	3.08	-8.17	19.54	-27.71	RMS
3	1572.515	-0.75	3.38	2.63	19.54	-16.91	peak
4	1572.515	-9.90	3.38	-6.52	19.54	-26.06	RMS
5	1582.078	0.20	3.68	3.88	19.54	-15.66	peak
6	1582.078	-8.36	3.68	-4.68	19.54	-24.22	RMS
7	1594.445	-2.36	4.07	1.71	19.54	-17.83	peak
8	1594.445	-12.80	4.07	-8.73	19.54	-28.27	RMS
9	1602.095	-2.09	4.24	2.15	19.54	-17.39	peak
10	1602.095	-11.06	4.24	-6.82	19.54	-26.36	RMS
11	1609.108	-2.75	4.23	1.48	19.54	-18.06	peak
12	1609.108	-11.75	4.23	-7.52	19.54	-27.06	RMS

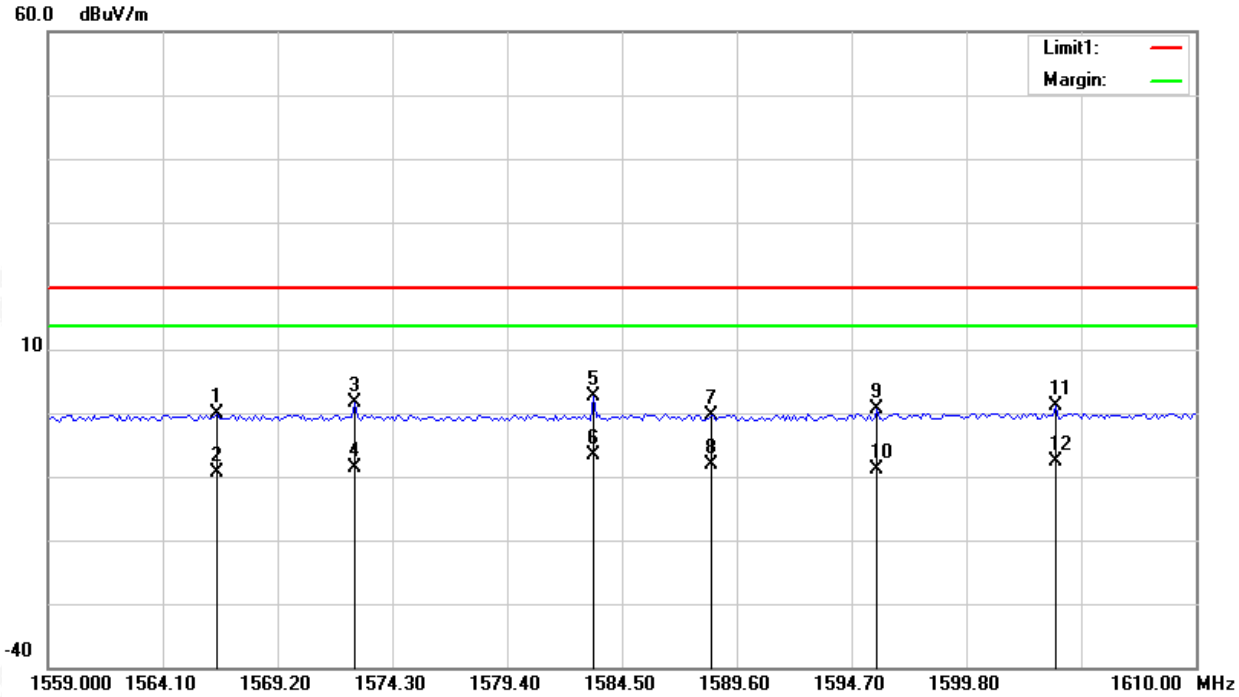
Remark:
5. Margin = Result (Result =Reading + Factor)–Limit
6. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Vertical
Test Mode:	CH 3(1559Hz – 1610MHz)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1566.523	-3.25	3.19	-0.06	19.54	-19.60	peak
2	1566.523	-12.55	3.19	-9.36	19.54	-28.90	RMS
3	1572.642	-1.75	3.38	1.63	19.54	-17.91	peak
4	1572.642	-12.01	3.38	-8.63	19.54	-28.17	RMS
5	1583.225	-1.03	3.72	2.69	19.54	-16.85	peak
6	1583.225	-10.29	3.72	-6.57	19.54	-26.11	RMS
7	1588.453	-4.18	3.88	-0.30	19.54	-19.84	peak
8	1588.453	-12.02	3.88	-8.14	19.54	-27.68	RMS
9	1595.848	-3.54	4.11	0.57	19.54	-18.97	peak
10	1595.848	-12.86	4.11	-8.75	19.54	-28.29	RMS
11	1603.753	-3.18	4.24	1.06	19.54	-18.48	peak
12	1603.753	-11.88	4.24	-7.64	19.54	-27.18	RMS

Remark:
5. Margin = Result (Result =Reading + Factor)–Limit
6. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



4. UWB BANDWIDTH AND 99% BANDWIDTH

4.1 LIMITS OF UWB BANDWIDTH MEASUREMENT

The UWB bandwidth of a UWB system operating under the provisions of this section must be contained between 3100 MHz and 10,600 MHz.

At any point in time, has a fractional bandwidth equal to or greater than 0.20 or has a UWB bandwidth equal to or greater than 500 MHz, regardless of the fractional bandwidth.

The 99% bandwidth for reporting purposes only.

4.2 INSTRUMENT SETUP VALUE AND MEASUREMENT DISTANCE

Frequency Range	RBW	VBW	Detector	Measurement Distance
3100~10600	3MHz	10MHz	PEAK	1 Meter

4.3 TEST PROCEDURE

a. The measuring distance of 1m shall be used for measurements. The EUT was placed on the top of arotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The height of the test antenna shall vary between 1m to 4m.Both horizontal and vertical polarization of the antenna are set to make the measurement.

c. All readings are RMS mode value , for each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading .

d. For the actual test configuration, please refer to the related Item –EUT Test Photos.

e. The Spectrum Analyzer system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. The UWB Bandwidth is measured at the 10 dB point (FL, FH).

Note: Both horizontal and vertical antenna polarities were tested. The worst case emissions were reported.

99% Bandwidth connect the UUT to the spectrum analyser and use the following settings:

Center Frequency	The centre frequency of the channel under test
Detector	Peak
RBW	1% to 5% of the occupied bandwidth
VBW	approximately 3×RBW
Trace	Max hold
Sweep	Auto

Allow the trace to stabilize and measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB and 99% relative to the maximum level measured in the fundamental emission.

4.4 TEST SETUP

Same as 3.3.4

4.5 EUT OPERATION CONDITIONS

Same as 3.2.6

4.6 TEST RESULTS

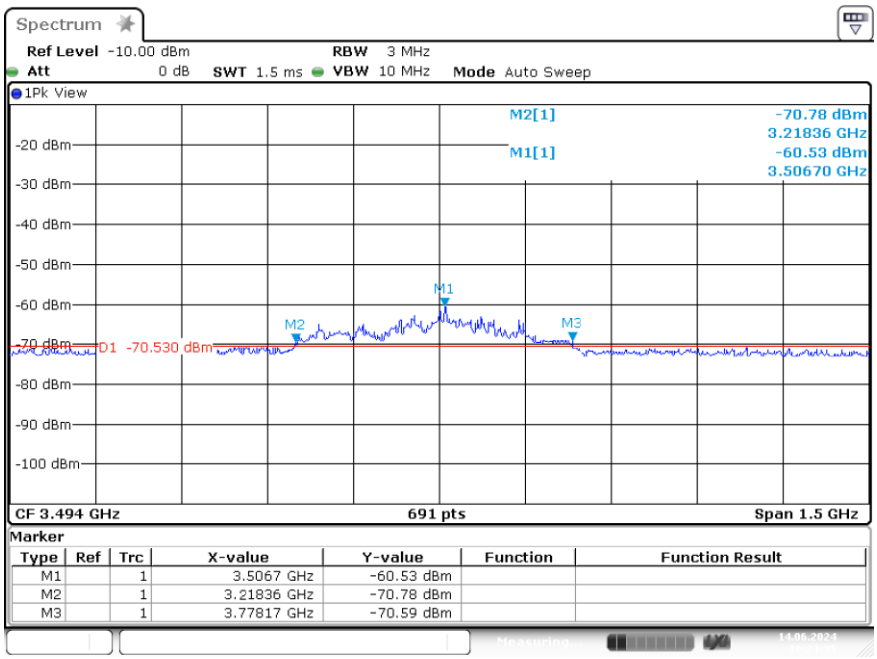
Temperature:	25 ℃	Relative Humidity:	50%
Test Voltage:	DC 12V		

Test Channel	fM (MHz)	fL (MHz)	fH (MHz)	-10dB Bandwidth (MHz)	Fractional Bandwidth (MHz)	Limit	Result
CH1	3506.7	3218.4	3778.2	559.81	0.16	-10dB Bandwidth≥500MHz or Fractional Bandwidth≥0.2	Pass

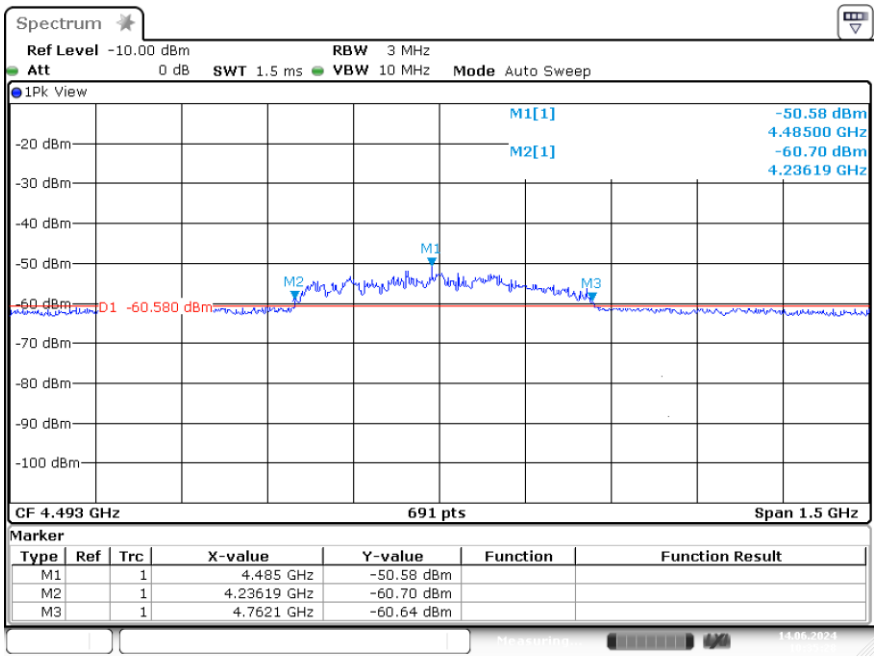
Test Channel	fM (MHz)	fL (MHz)	fH (MHz)	-10dB Bandwidth (MHz)	Fractional Bandwidth (MHz)	Limit	Result
CH2	4485	4236.2	4762.1	525.91	0.12	-10dB Bandwidth≥500MHz or Fractional Bandwidth≥0.2	Pass

Test Channel	f_M (MHz)	f_L (MHz)	f_H (MHz)	-10dB Bandwidth (MHz)	Fractional Bandwidth (MHz)	Limit	Result
CH3	6329	6085.8	6821	735.2	0.11	-10dB Bandwidth≥500MHz or Fractional Bandwidth≥0.2	Pass

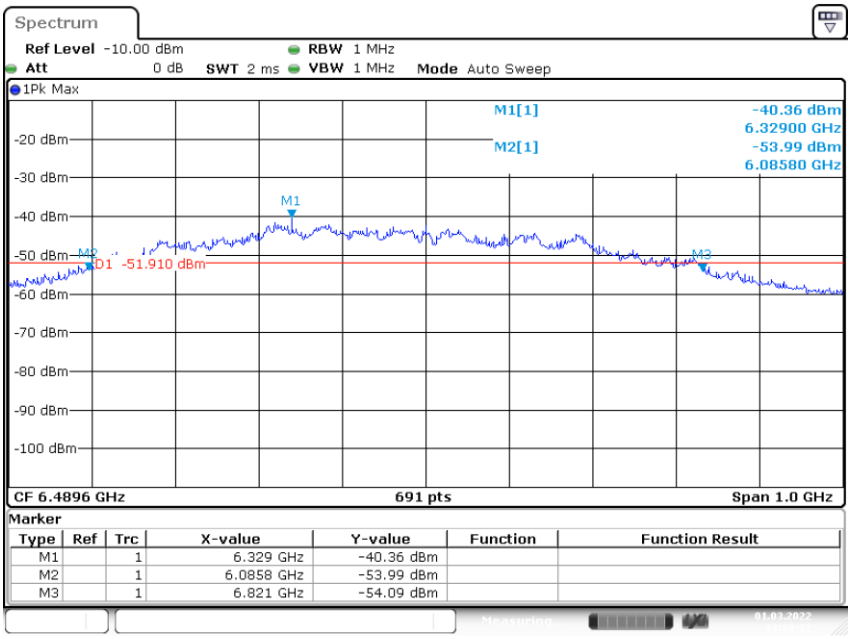
CH1



CH2



CH3

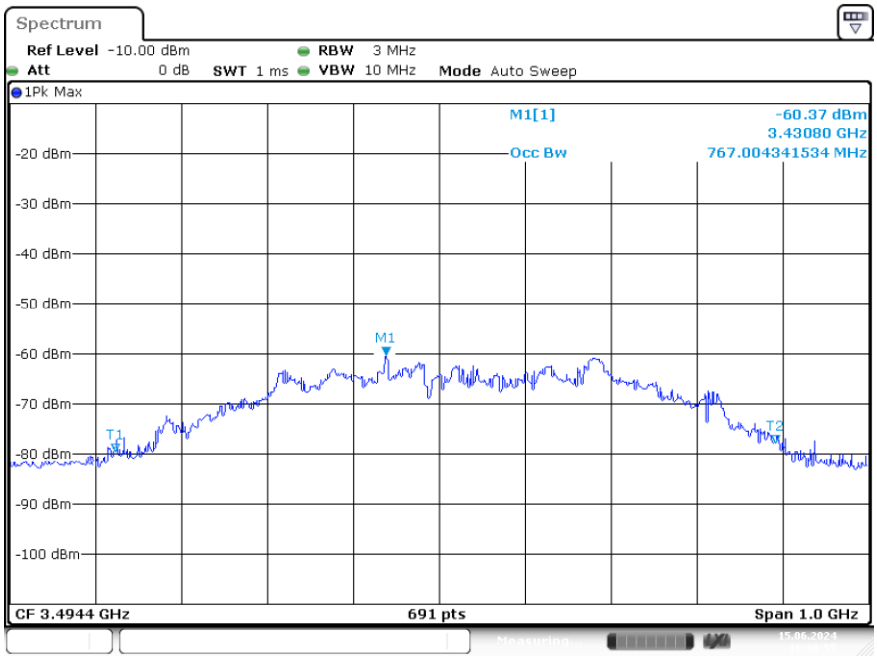


Date: 1.MAR.2022 13:20:12

Temperature:	25 ℃	Relative Humidity:	50%
Test Voltage:	DC 12V		

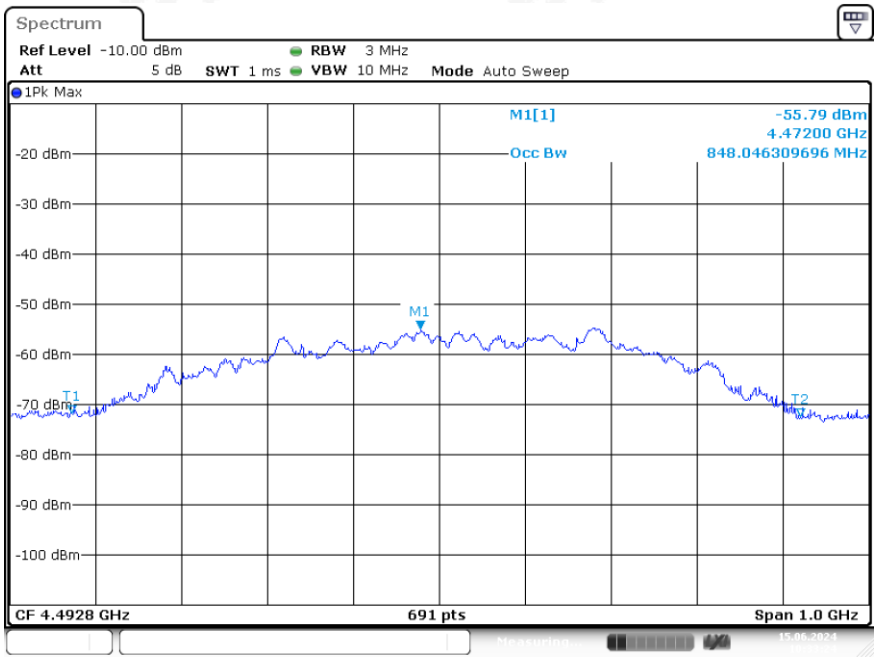
Frequency (MHz)	99% Bandwidth (MHz)	Result
3494.4	767.004	PASS

CH 1



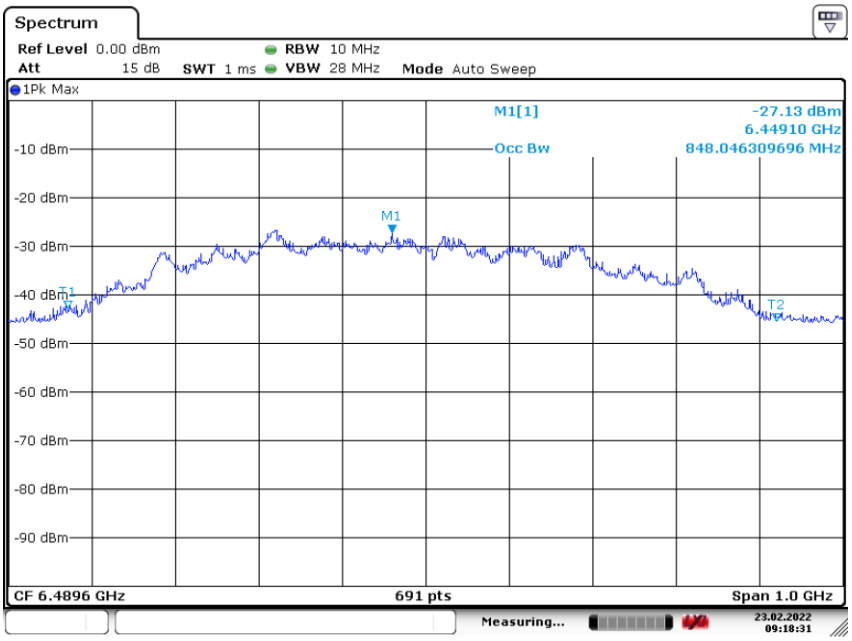
Frequency (MHz)	99% Bandwidth (MHz)	Result
4492.8	848.046	PASS

CH 2



Frequency (MHz)	99% Bandwidth (MHz)	Result
6489.6	848.05	PASS

CH 3



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5 PEAK EMISSION WITHIN A 50MHZ BANDWIDTH (FOR 15.517(e) & RSS-220 5.2.1(g))

5.1 LIMITS OF PEAK EMISSION

The Maximum Peak Output Power Measurement is 0dBm(RBW=50MHz).
If a resolution bandwidth other than 50 MHz is Employed, the peak EIRP limit shall be 20 log (RBW/50) dBm where RBW is the resolution bandwidth in megahertz that is employed. The resolution bandwidth used to make the peak measurement was 1MHz, resulting in a limit of –34dBm.

This may be converted to a peak field strength level at 3 meters using
E(dBuV/m) = P(dBm EIRP) + 95.2 = -34 + 95.2 = 61.2 dBuV/m
Note: $EIRP_{1MHz}=EIRP_{50MHz}+20\log(1MHz/50\ MHz) = 0\ dBm + -34\ dB = -34\ dBm$

5.2 INSTRUMENT SETUP VALUE AND MEASUREMENT DISTANCE

Frequency Range	RBW	VBW	Detector	Measurement Distance
3100~10600	1MHz	3MHz	PEAK	3 Meter

5.3 TEST PROCEDURE

Same as 3.3.2

5.4 DEVIATION FROM TEST STANDARD

No deviation

5.5 TEST SETUP

Same as 3.3.4

5.6 FIELD STRENGTH CALCULATION

Same as 3.2.5

5.7 EUT OPERATING CONDITIONS

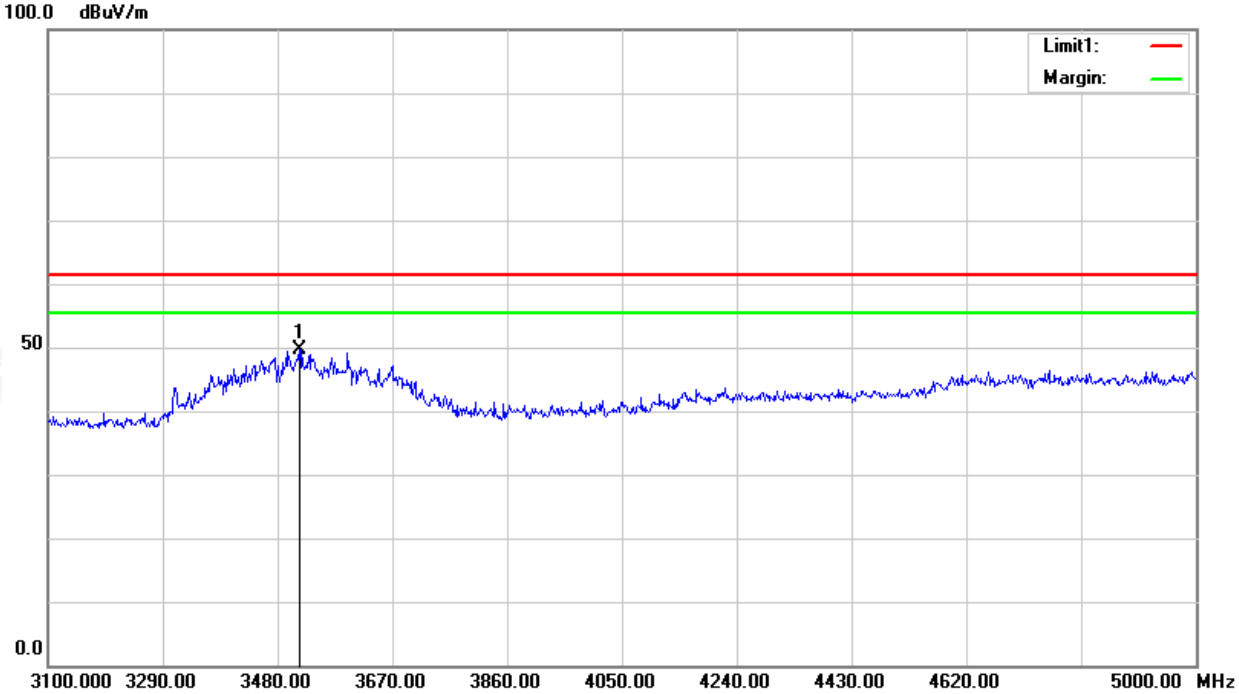
Same as 3.2.5

5.8 TEST RESULTS

Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Horizontal
Test Mode:	CH1		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3494.4	61.03	-11.38	49.65	61.30	-11.65	peak

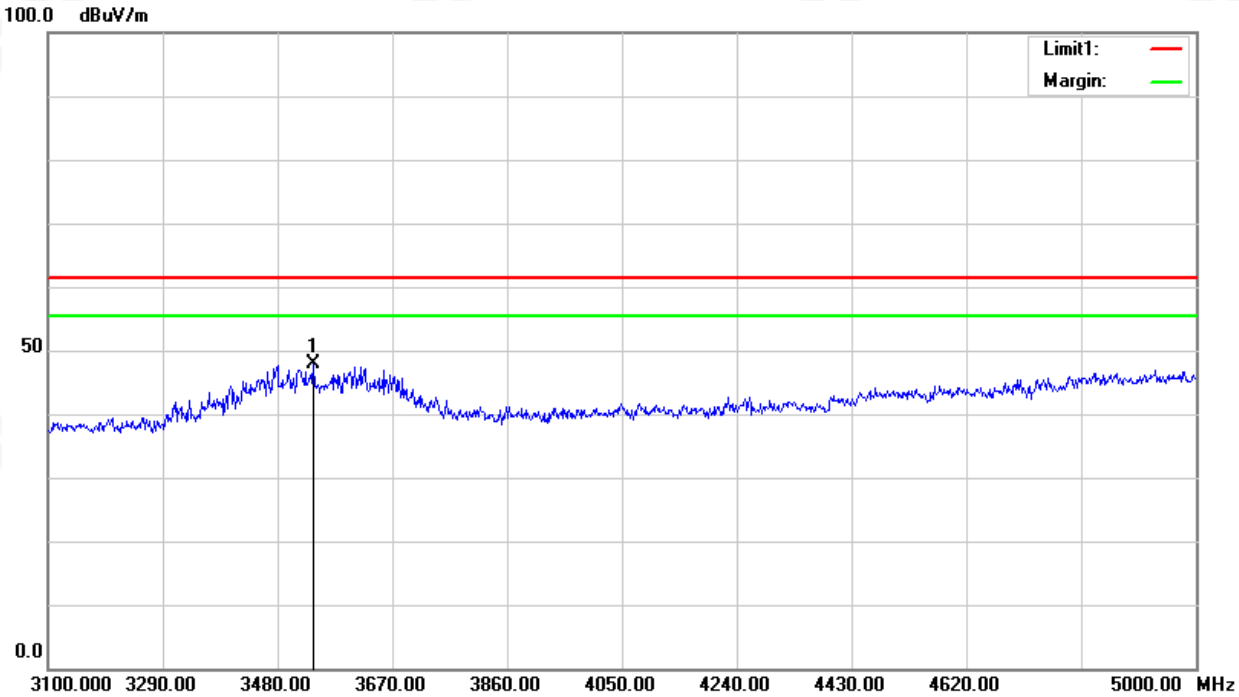
Remark:
1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Vertical
Test Mode:	CH 1		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3494.4	59.06	-11.24	47.82	61.30	-13.48	peak

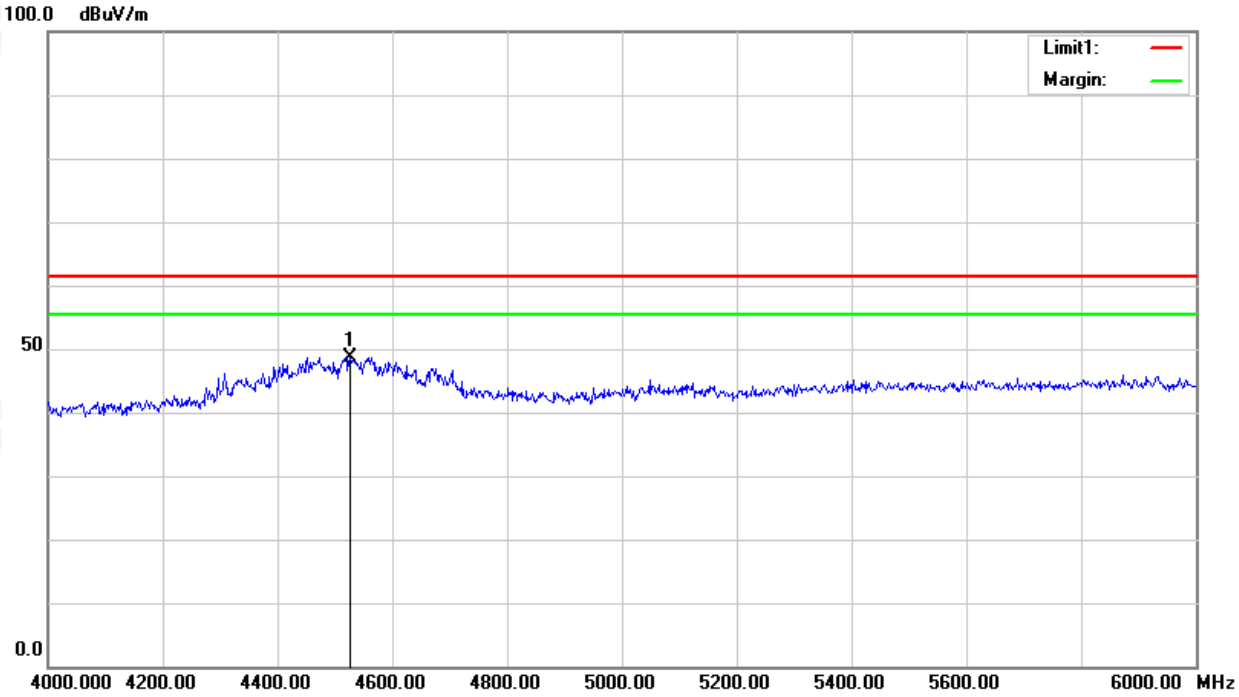
Remark:
1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Horizontal
Test Mode:	CH 2		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4492.8	56.62	-7.93	48.69	61.30	-12.61	peak

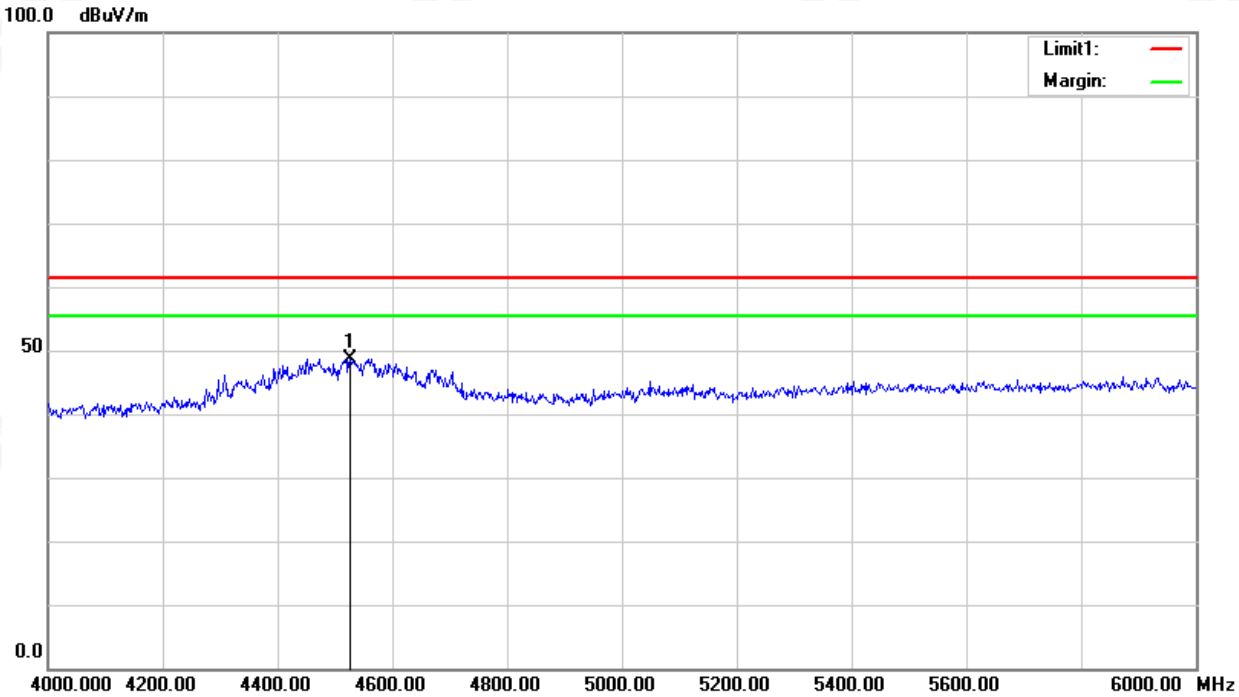
Remark:
3. Margin = Result (Result =Reading + Factor)–Limit
4. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 12V	Phase:	Vertical
Test Mode:	CH 2		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4492.8	56.62	-7.93	48.69	61.30	-12.61	peak

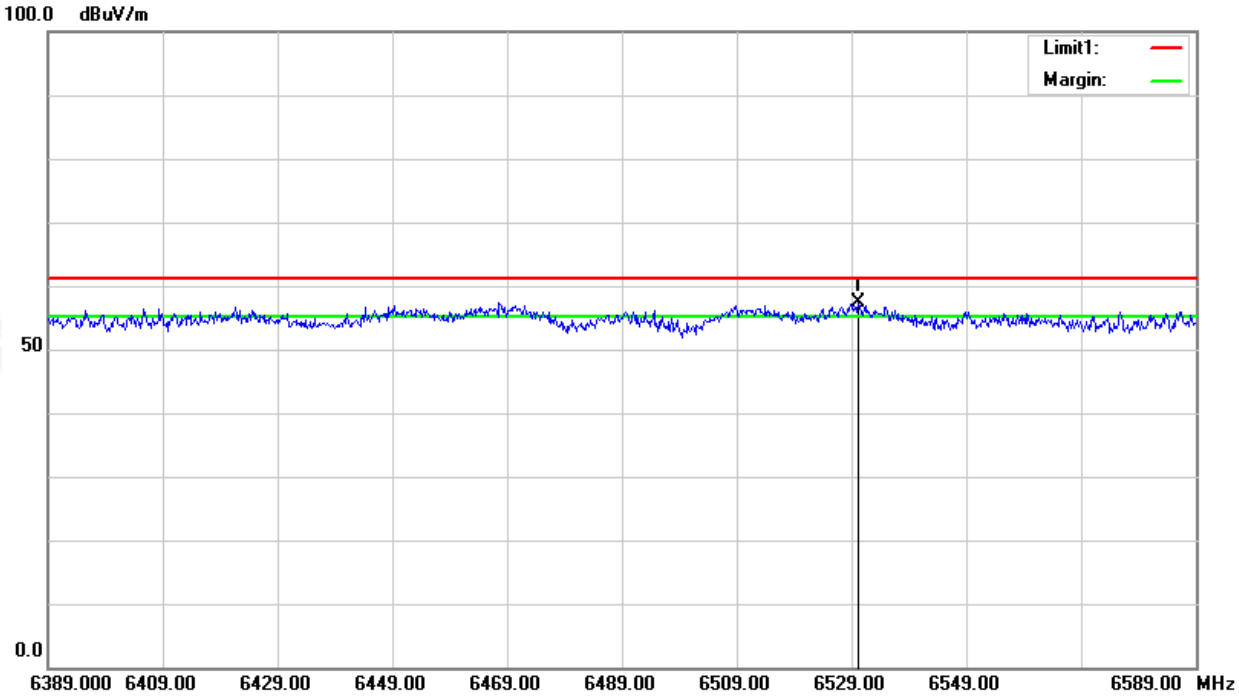
Remark:
3. Margin = Result (Result =Reading + Factor)–Limit
4. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.5(C)	Relative Humidity:	62%RH
Test Voltage:	DC 12V	Phase:	Horizontal
Test Mode:	CH 3		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6530.200	59.37	-1.89	57.48	61.20	-3.72	peak

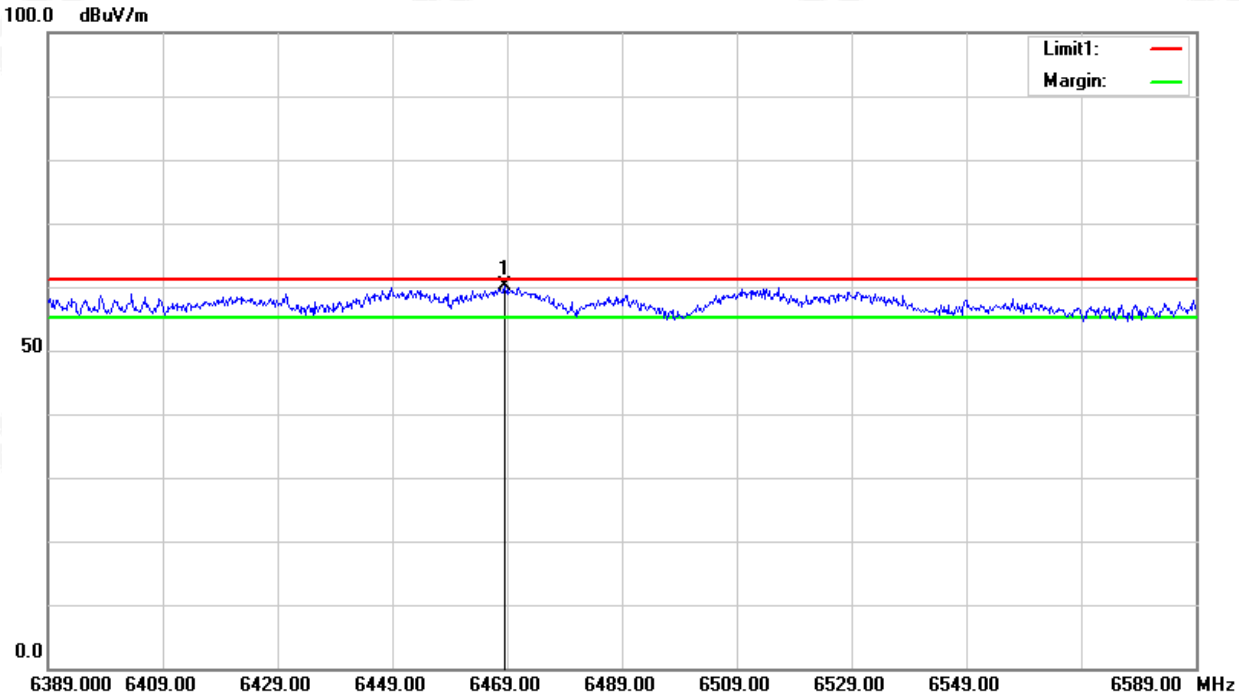
Remark:
5. Margin = Result (Result =Reading + Factor)–Limit
6. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.5(C)	Relative Humidity:	62%RH
Test Voltage:	DC 12V	Phase:	Vertical
Test Mode:	CH 3		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6468.600	62.08	-2.03	60.05	61.20	-1.15	peak

Remark:
5. Margin = Result (Result =Reading + Factor)–Limit
6. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



6. ANTENNA REQUIREMENT

6.1 STANDARD REQUIREMENT

According to the FCC Part 15 Paragraph 15.203&RSS-Gen(6.8), 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.

6.2 EUT ANTENNA

The EUT antenna is Ceramic Antenna.It conforms to the standard requirements.

APPENDIX- 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※※※※※