



FCC PART 15 B TEST REPORT

For

SZ DJI TECHNOLOGY CO., LTD

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Nanshan, Shenzhen, Guangdong, China

FCC ID: SS3-WM331S1801

Report Type: Original Report	Product Type: Phantom 4 Pro V2.0
Report Number:	RDG180105003-00
Report Date:	2018-02-16
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Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Dongguan).

TABLE OF CONTENTS

GENERAL INFORMATION.....	3
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	3
OBJECTIVE	3
RELATED SUBMITTAL(S)/GRANT(S).....	3
TEST METHODOLOGY	3
MEASUREMENT UNCERTAINTY.....	4
TEST FACILITY	4
SYSTEM TEST CONFIGURATION.....	5
DESCRIPTION OF TEST CONFIGURATION	5
EUT EXERCISE SOFTWARE	5
EQUIPMENT MODIFICATIONS	5
LOCAL SUPPORT EQUIPMENT LIST AND DETAILS	5
SUPPORT CABLE LIST AND DETAILS	5
CONFIGURATION OF TEST SETUP	6
SUMMARY OF TEST RESULTS	7
FCC§15.107 - CONDUCTED EMISSIONS.....	8
EUT SETUP.....	8
EMI TEST RECEIVER SETUP.....	8
TEST EQUIPMENT LIST AND DETAILS.....	9
TEST PROCEDURE	9
CORRECTED AMPLITUDE & MARGIN CALCULATION	9
TEST RESULTS SUMMARY	9
TEST DATA	10
FCC §15.109 - RADIATED SPURIOUS EMISSIONS	12
EUT SETUP.....	12
EMI TEST RECEIVER SETUP.....	12
TEST PROCEDURE	13
TEST EQUIPMENT LIST AND DETAILS.....	13
CORRECTED AMPLITUDE & MARGIN CALCULATION	14
TEST DATA	14

GENERAL INFORMATION

Product Description for Equipment Under Test (EUT)

EUT Name:	Phantom 4 Pro V2.0
EUT Model:	WM331S
FCC ID:	SS3-WM331S1801
Rated Input Voltage:	DC 15.2V from battery
External Dimension:	Length (285.49mm)*Width (285.49mm)*High (180.16mm)
Serial Number:	180105003
EUT Received Date:	2018.01.05
The Highest Operation Frequency:	5846.5MHz

Objective

This test report is prepared on behalf of *SZ DJI TECHNOLOGY CO., LTD* In accordance with Part 2, Subpart J, and Part 15-Subparts A and B of the Federal Communications Commission's rules.

The objective of the manufacturer is to determine the compliance of EUT with FCC Part 15 B Class B.

Related Submittal(s)/Grant(s)

FCC Part 15C DTS submissions with FCC ID: SS3-WM331S1801.

FCC Part 15E NII submissions with FCC ID: SS3-WM331S1801.

Part of system submissions with FCC ID: SS3-GL300L1801.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2014, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

All radiated and conducted emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Dongguan).

Measurement Uncertainty

Parameter	Measurement Uncertainty
Unwanted Emissions, radiated	30M~200MHz: 4.58 dB for Horizontal, 4.59 dB for Vertical 200M~1GHz: 4.83 dB for Horizontal, 5.85 dB for Vertical 1G~6GHz: 4.45 dB, 6G~26.5GHz: 5.23 dB
Temperature	±1℃
Humidity	±5%
AC Power Lines Conducted Emission	3.12 dB (150 kHz to 30 MHz)

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.69 Pulongcun, Puxinhu Industry Area, Tangxia, Dongguan, Guangdong, China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 897218,the FCC Designation No. : CN1220.

The test site has been registered with ISED Canada under ISED Canada Registration Number 3062D.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in below mode, which was provided by the manufacturer.

Operation mode: in the operation mode, the device controlled by remote controller, and storage the data into the TF Card.

Downloading mode: transmitting data from the EUT to the Laptop.

EUT Exercise Software

The software “DJI GO 4” and “Withrax” were used during test.

Equipment Modifications

No modification was made to the EUT tested.

Local Support Equipment List and Details

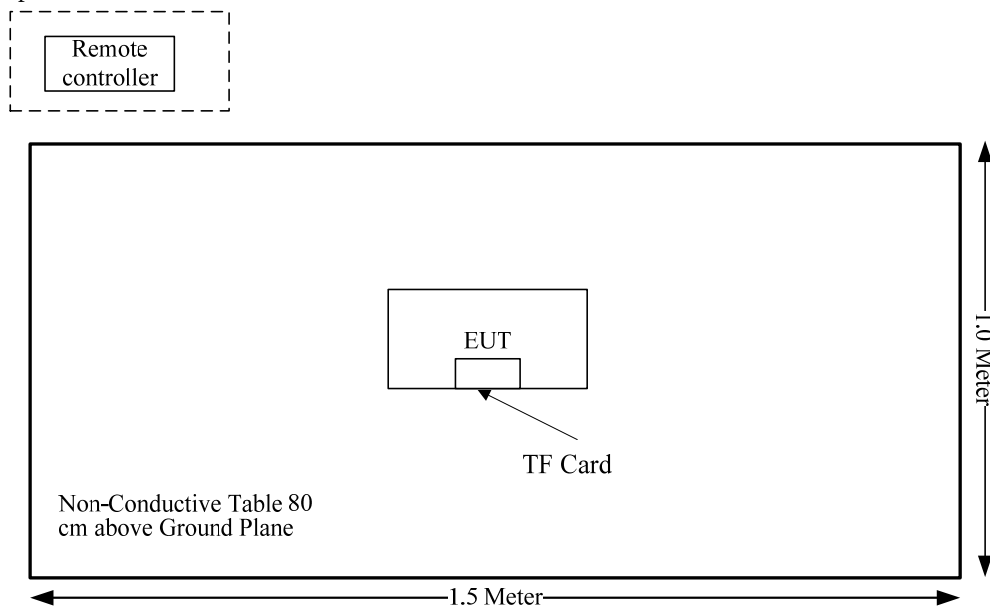
Manufacturer	Description	Model	Serial Number
SANDISK	TF card	8G	N/A
DJI	Remote Controller(C1)	GL300L	N/A
DELL	Keyboard	SK-8115	CN-0DJ313-716716-05A-0DSO
SAST	Modem	AEM-2100	090200213
DELL	Laptop	PP11L	QDS-BRCM1017
HP	Printer	C3941A	JPTVOB2337

Support Cable List and Details

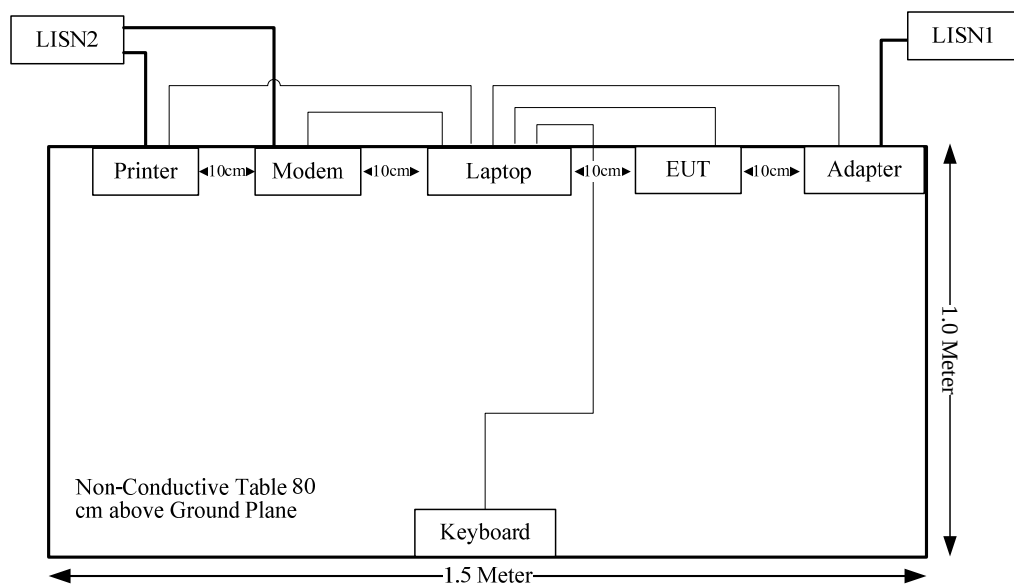
Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
Serial Cable	yes	No	1.2	Serial Port of Laptop	Modem
Parallel Cable	yes	No	1.2	Parallel Port of Laptop	Printer
Keyboard Cable	yes	No	1.8	USB Port of Laptop	Keyboard
USB Cable	yes	No	1.0	USB Port of Laptop	EUT

Configuration of Test Setup

Test mode: Operation



Test Mode: Downloading

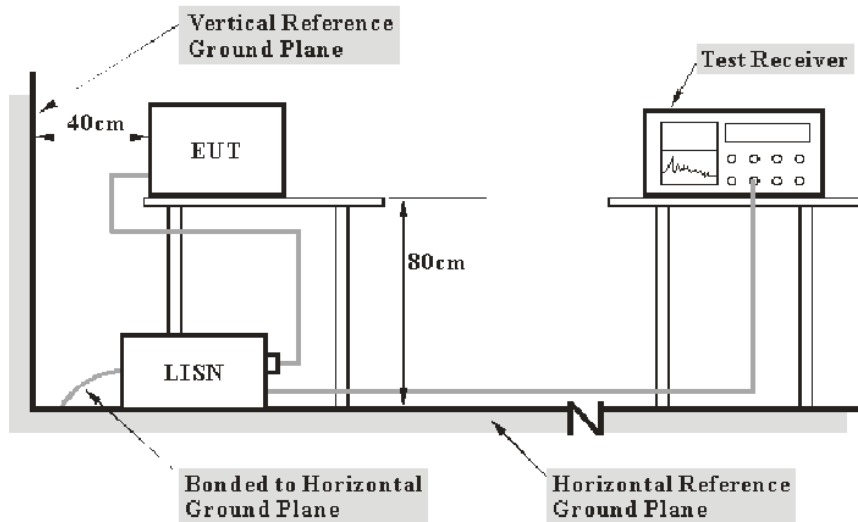


SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Results
§15.107	Conducted Emissions	Compliant
§15.109	Radiated Emissions	Compliant

FCC§15.107 - CONDUCTED EMISSIONS

EUT Setup



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

The setup of EUT is according with per ANSI C63.4-2014 measurement procedure. The specification used was with the FCC Part 15 B Class B limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The adapter was connected to the Main LISN with 120V/60Hz AC power source.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCS 30	830245/006	2017-12-11	2018-12-11
N/A	Coaxial Cable	C-NJNJ-50	C-0200-01	2017-09-05	2018-09-05
R&S	Test Software	EMC32	Version8.53.0	N/A	N/A
R&S	Two-line V-network	ENV 216	101614	2017-12-08	2018-12-08
R&S	EMI Test Receiver	ESCS 30	830245/006	2017-12-11	2018-12-11

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed traceable to National Primary Standards and International System of Units (SI).

Test Procedure

During the conducted emission test, the adapter of laptop was connected to the outlet of the first LISN and the other support equipments were connected to the outlet of the second LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

Corrected Amplitude & Margin Calculation

The basic equation is as follows:

$$V_C = V_R + A_C + VDF$$

Herein,

V_C : corrected voltage amplitude

V_R : reading voltage amplitude

A_C : attenuation caused by cable loss

VDF: voltage division factor of AMN or ISN

The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15 B Class B.

Test Data

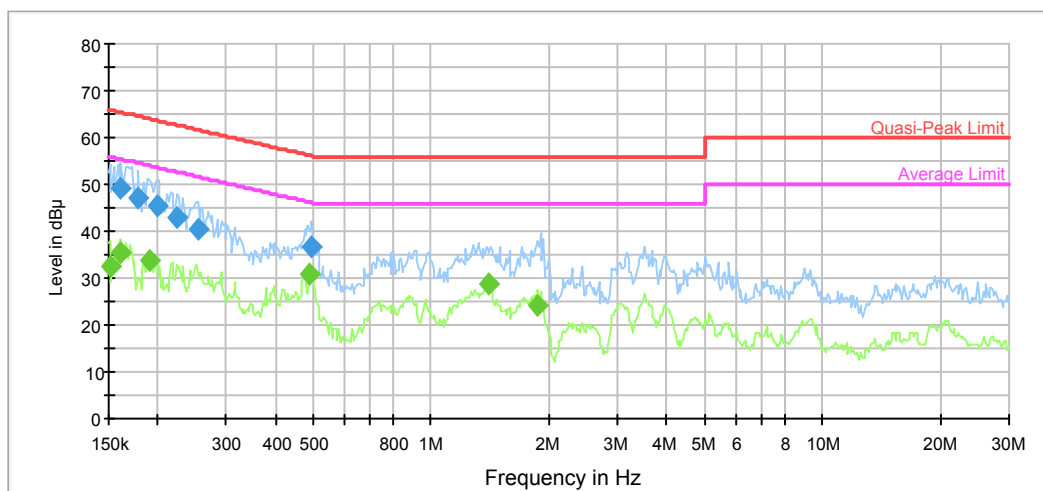
Environmental Conditions

Temperature:	23.8 °C
Relative Humidity:	51%
ATM Pressure:	101.3 kPa

The testing was performed by Jim Zhang on 2018-02-28.

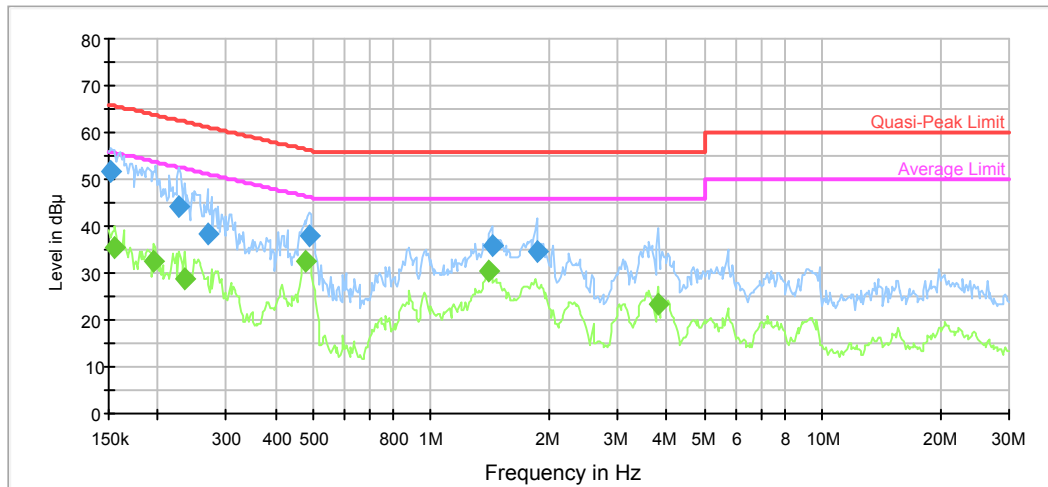
Test Mode: Downloading

AC120V, 60Hz, Line:



Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.161152	49.3	9.000	L1	11.0	16.1	65.4	Compliance
0.178741	46.9	9.000	L1	10.8	17.6	64.5	Compliance
0.199835	45.6	9.000	L1	10.6	18.1	63.6	Compliance
0.225205	42.9	9.000	L1	10.5	19.7	62.6	Compliance
0.253797	40.4	9.000	L1	10.3	21.2	61.6	Compliance
0.495646	36.6	9.000	L1	9.9	19.5	56.1	Compliance

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.151200	32.7	9.000	L1	11.2	23.2	55.9	Compliance
0.161152	35.4	9.000	L1	11.0	20.0	55.4	Compliance
0.190505	33.8	9.000	L1	10.7	20.2	54.0	Compliance
0.487810	30.8	9.000	L1	9.9	15.4	46.2	Compliance
1.407671	28.5	9.000	L1	9.7	17.5	46.0	Compliance
1.875341	24.4	9.000	L1	9.7	21.6	46.0	Compliance

AC120V, 60Hz, Neutral:

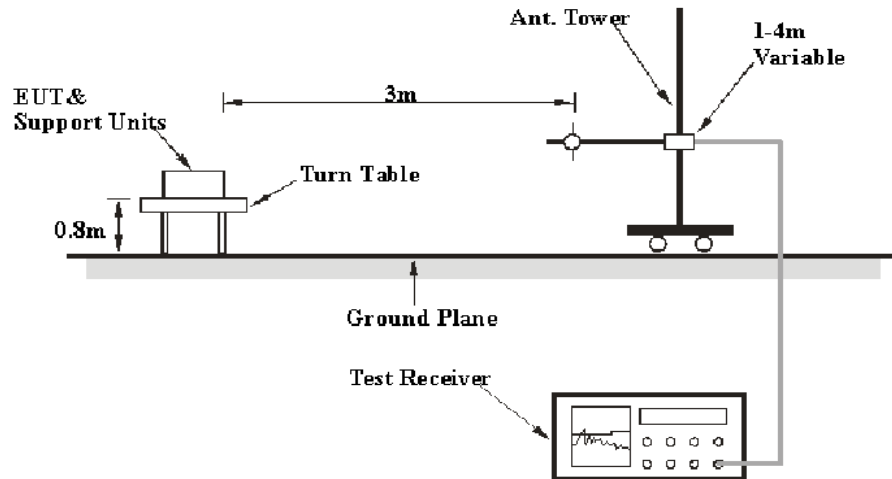
Frequency (MHz)	QuasiPeak (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.152410	51.5	9.000	N	11.1	14.4	65.9	Compliance
0.227007	44.2	9.000	N	10.5	18.4	62.6	Compliance
0.268355	38.5	9.000	N	10.3	22.7	61.2	Compliance
0.487810	38.0	9.000	N	9.9	18.2	56.2	Compliance
1.430284	35.9	9.000	N	9.7	20.1	56.0	Compliance
1.860457	34.6	9.000	N	9.7	21.4	56.0	Compliance

Frequency (MHz)	Average (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.156097	35.4	9.000	N	11.1	20.2	55.7	Compliance
0.195114	32.4	9.000	N	10.7	21.4	53.8	Compliance
0.234359	28.8	9.000	N	10.4	23.5	52.3	Compliance
0.480097	32.4	9.000	N	9.9	14.0	46.3	Compliance
1.396499	30.4	9.000	N	9.7	15.6	46.0	Compliance
3.811251	23.5	9.000	N	9.8	22.5	46.0	Compliance

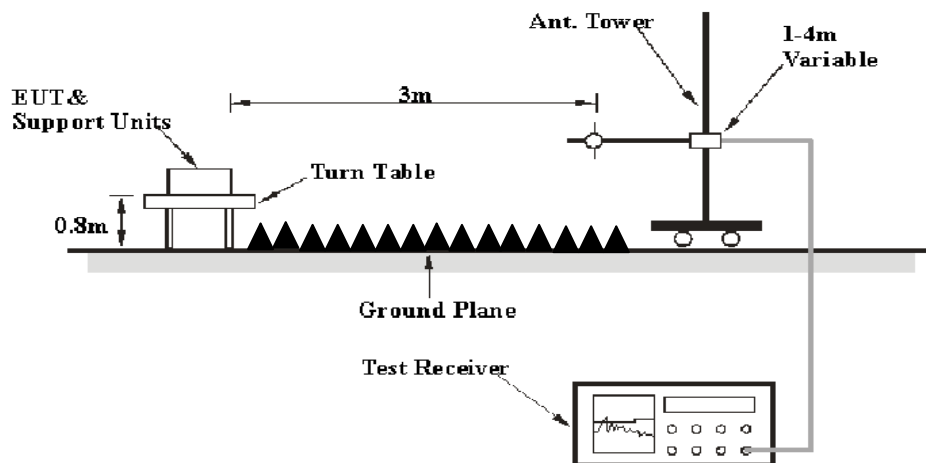
FCC §15.109 - RADIATED SPURIOUS EMISSIONS

EUT Setup

Below 1GHz:



Above 1GHz:



The radiated emission Below 1GHz tests were performed in the 10 meters chamber test site, above 1GHz tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.4-2014. The specification used was the FCC Part 15.109 Class B limits.

EMI Test Receiver Setup

The system was investigated from 30 MHz to 40 GHz.

During the radiated emission test, the EMI test receiver was set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Measurement
30 MHz – 1000 MHz	120 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1 MHz	3 MHz	/	Peak
	1 MHz	10 Hz	/	AVG

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

The data was recorded in the Quasi-peak detection mode for below 1 GHz, peak and average detection mode above 1 GHz.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCI	100035	2017-08-04	2018-08-04
Sunol Sciences	Antenna	JB3	A060611-3	2017-07-21	2019-07-21
HP	Amplifier	8447F	2443A01912	2017-09-05	2018-09-05
N/A	Coaxial Cable	C-NJNJ-50	C-0400-02	2017-09-05	2018-09-05
N/A	Coaxial Cable	C-NJNJ-50	C-0075-02	2017-09-05	2018-09-05
N/A	Coaxial Cable	C-NJNJ-50	C-2200-01	2017-09-05	2018-09-05
Agilent	Spectrum Analyzer	E4440A	SG43360054	2018-01-04	2019-01-04
ETS-Lindgren	Horn Antenna	3115	000 527 35	2016-01-05	2019-01-05
MITEQ	Amplifier	AFS42-00101800-2 5-S-42	2001271	2017-09-05	2018-09-05
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-02 1304	2017-06-16	2020-06-15
Ducommun Technologies	Horn Antenna	ARH-2823-02	1007726-01 1302	2016-11-18	2019-11-18
Quinstar	Amplifier	QLW-18405536-JO	15964001001	2017-06-27	2018-06-27
unknown	Coaxial Cable	8m	C0800/01	2017-09-05	2018-09-05
R&S	Spectrum Analyzer	FSP 38	100478	2017-12-08	2018-12-08
Chengdu OuLi	Bandrejector Filter	5725-5850	005	2017-09-05	2018-09-05
Farad	Test Software	EZ-EMC	V1.1.4.2	N/A	N/A

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

$$\text{Corrected Amplitude} = \text{Meter Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

Test Data

Environmental Conditions

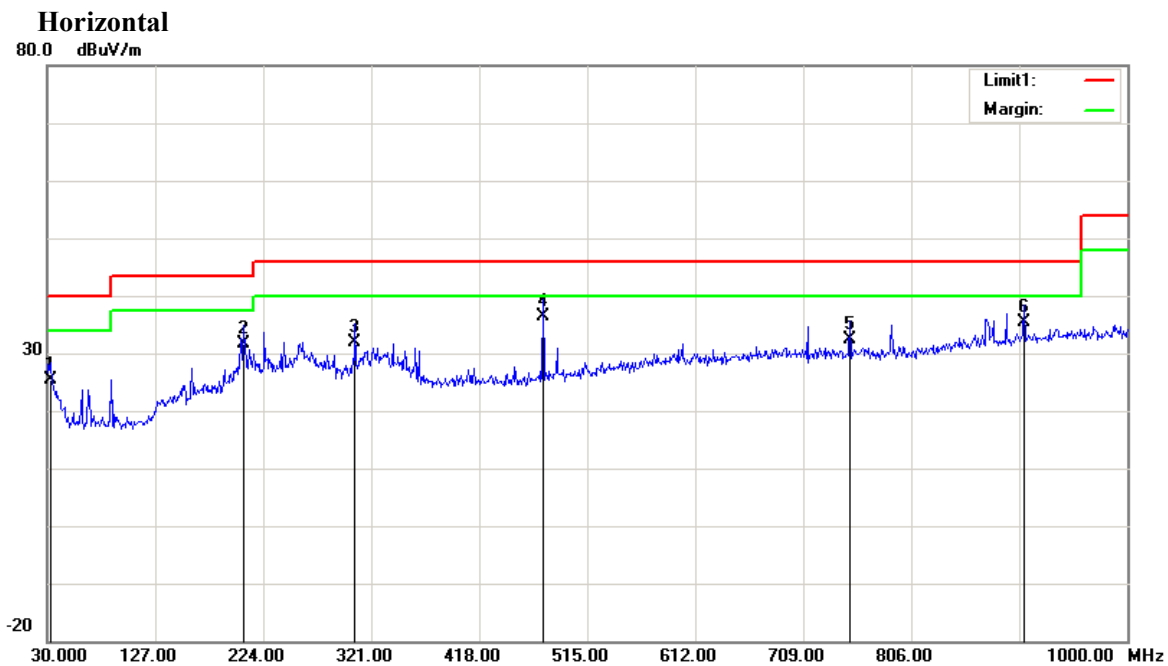
Temperature:	19.2~22.1°C
Relative Humidity:	34~50 %
ATM Pressure:	101.1~101.3 kPa

* The testing was performed by Blake Yang and Vern Shen on 2018-01-13, 2018-01-15 and 2018-02-28.

Test Result: Compliance

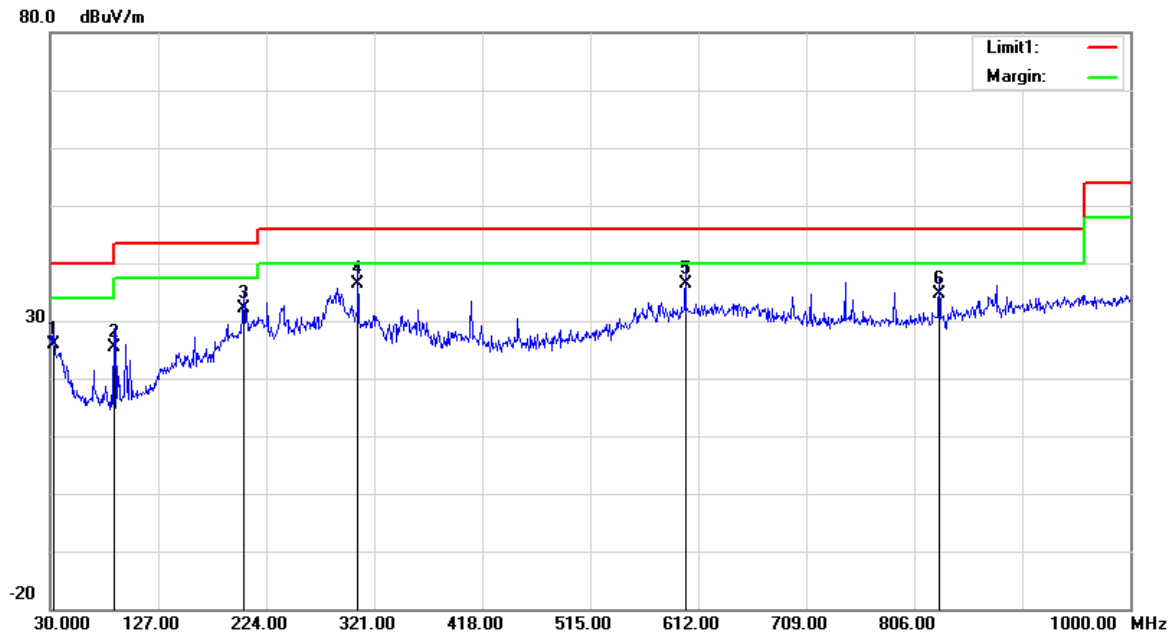
Test Mode: Operating

1) Below 1GHz:



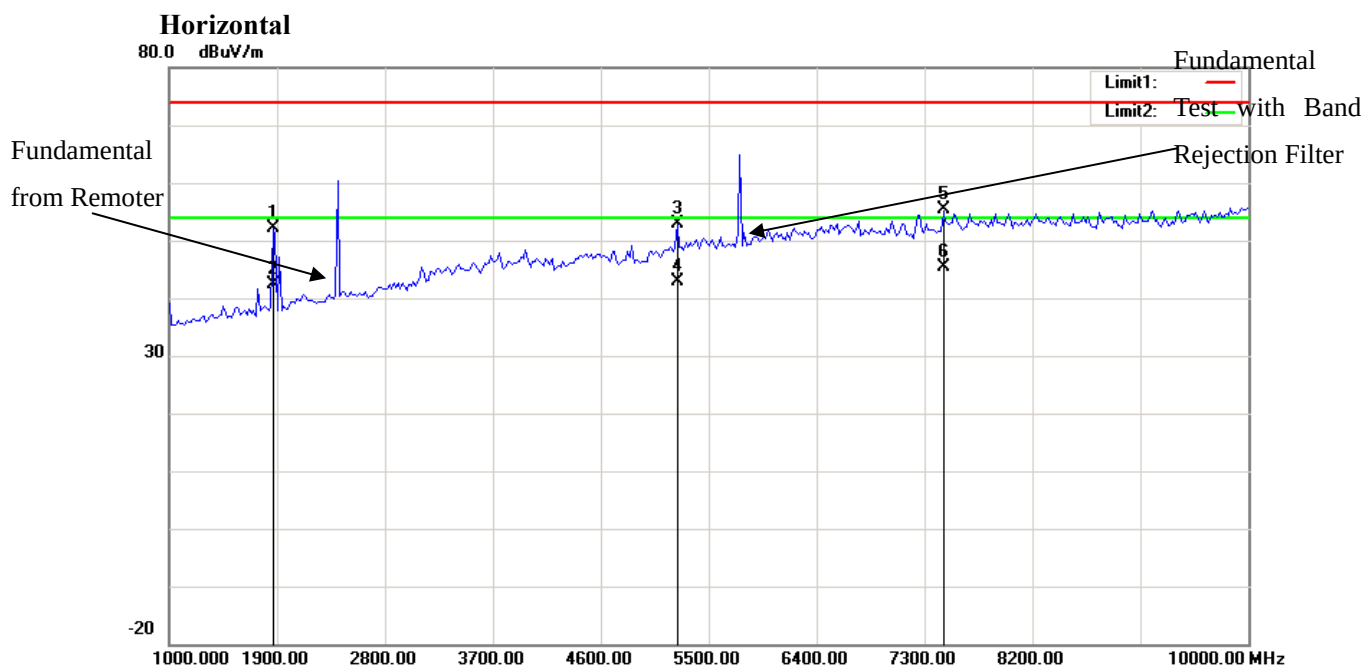
Frequency (MHz)	Receiver Reading (dB μ V)	Detector	Correction Factor (dB/m)	Cord. Amp. (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
32.9100	28.55	QP	-3.25	25.30	40.00	14.70
206.5400	39.63	QP	-7.93	31.70	43.50	11.80
306.4500	36.44	QP	-4.44	32.00	46.00	14.00
475.2300	36.82	QP	-0.42	36.40	46.00	9.60
750.7100	26.94	QP	5.56	32.50	46.00	13.50
906.8800	27.17	QP	8.13	35.30	46.00	10.70

Vertical

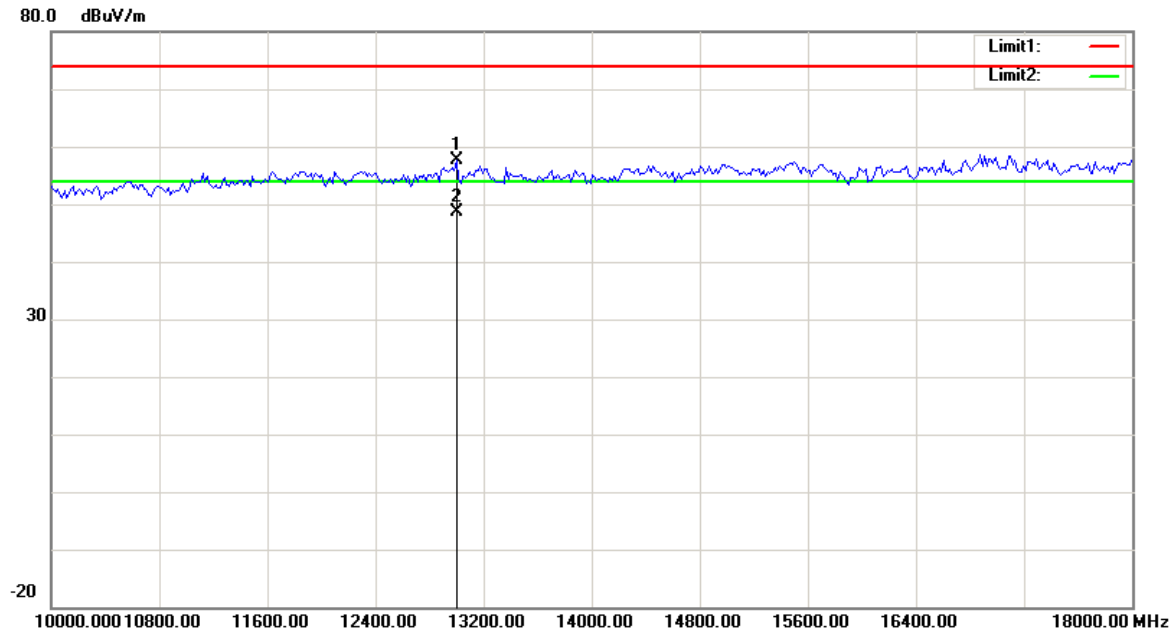


Frequency (MHz)	Receiver Reading (dBμV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
32.9100	29.05	QP	-3.25	25.80	40.00	14.20
87.2300	38.15	QP	-12.65	25.50	40.00	14.50
203.6300	39.49	QP	-7.29	32.20	43.50	11.30
306.4500	40.94	QP	-4.44	36.50	46.00	9.50
600.3600	33.29	QP	3.11	36.40	46.00	9.60
828.3100	28.27	QP	6.33	34.60	46.00	11.40

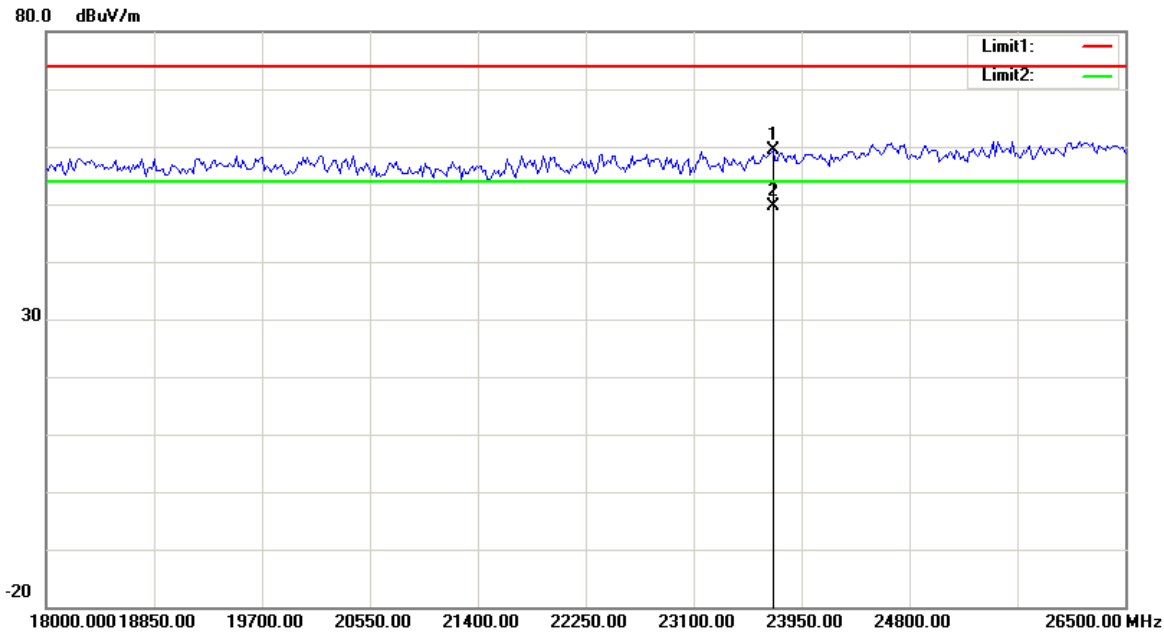
2) Above 1GHz:



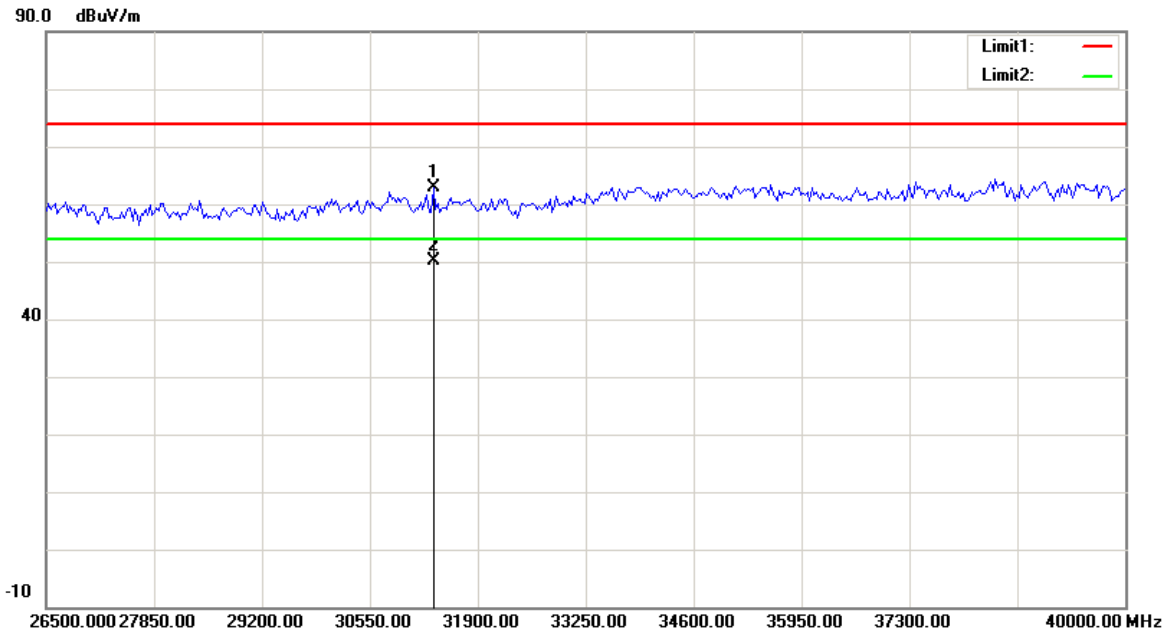
Frequency (MHz)	Receiver Reading (dBμV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1865.732	50.57	peak	1.56	52.13	74.00	21.87
1865.732	40.74	AVG	1.56	42.30	54.00	11.70
5238.477	40.93	peak	11.97	52.90	74.00	21.10
5238.477	30.93	AVG	11.97	42.90	54.00	11.10
7456.914	38.31	peak	17.05	55.36	74.00	18.64
7456.914	28.35	AVG	17.05	45.40	54.00	8.60



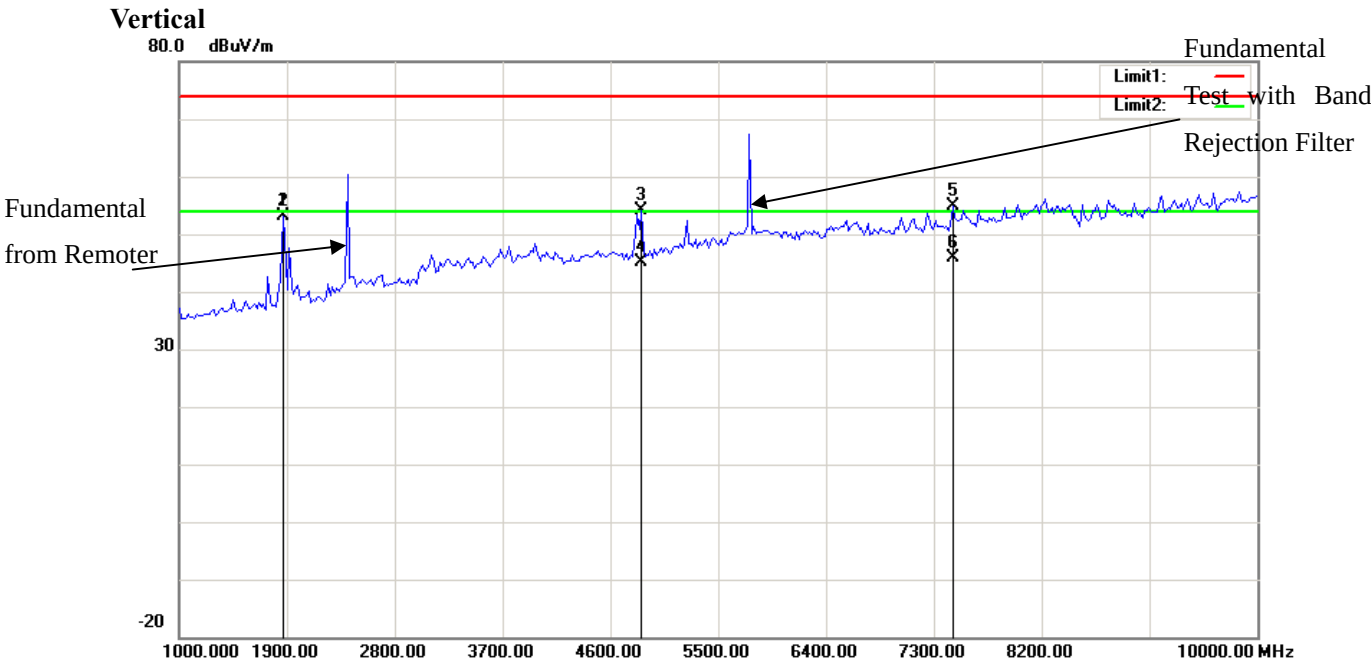
Frequency (MHz)	Receiver Reading (dBμV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
12997.996	30.92	peak	26.59	57.51	74.00	16.49
12997.996	22.11	AVG	26.59	48.70	54.00	5.30



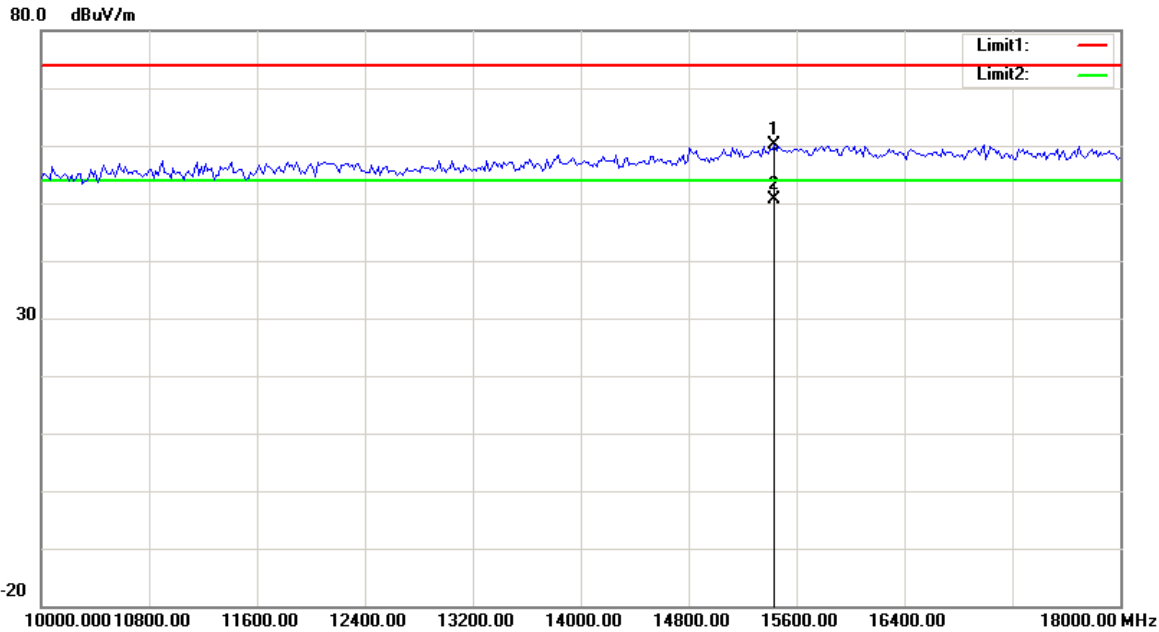
Frequency (MHz)	Receiver Reading (dBμV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
23723.447	38.96	peak	20.32	59.28	74.00	14.72
23723.447	29.28	AVG	20.32	49.60	54.00	4.40



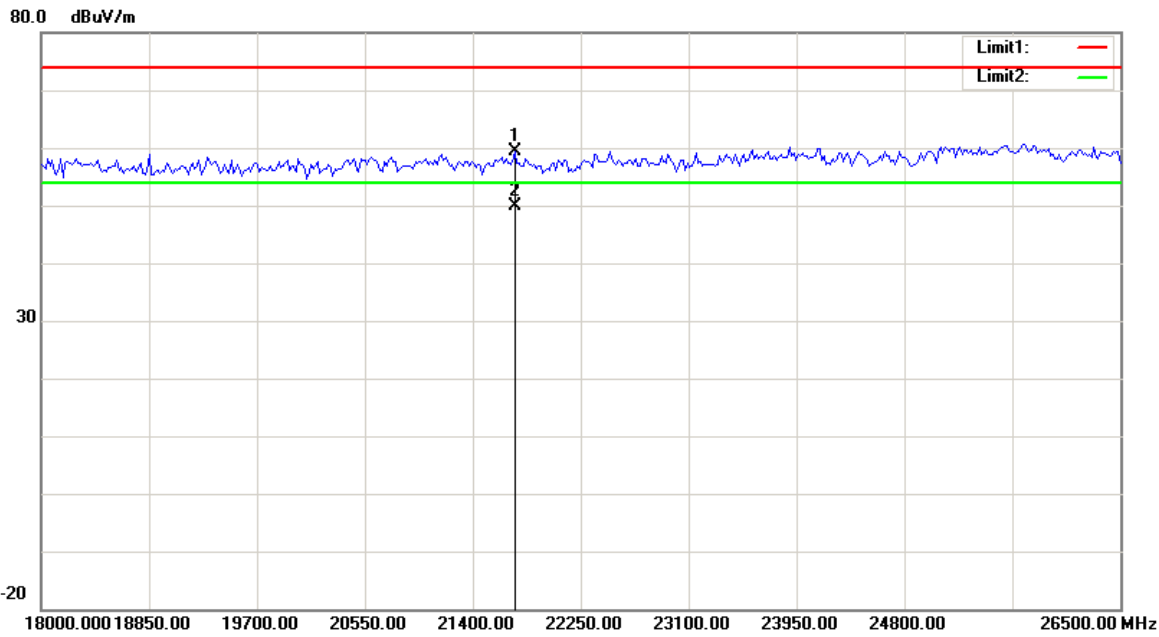
Frequency (MHz)	Receiver Reading (dBμV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
31342.685	36.74	peak	26.12	62.86	74.00	11.14
31342.685	23.98	AVG	26.12	50.10	54.00	3.90



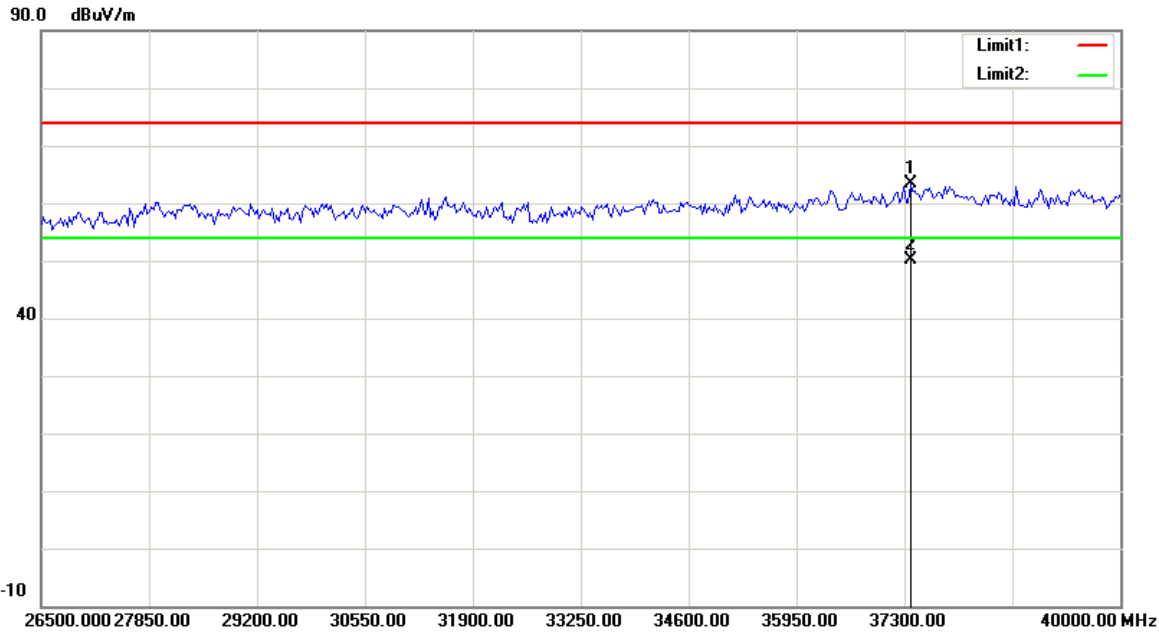
Frequency (MHz)	Receiver Reading (dBμV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1865.732	51.57	peak	1.56	53.13	74.00	20.87
1865.732	51.57	AVG	1.56	53.13	54.00	0.87
4859.719	50.36	peak	10.33	60.69	74.00	13.31
4859.719	40.37	AVG	10.33	50.70	54.00	3.30
7456.914	37.81	peak	17.05	54.86	74.00	19.14
7456.914	28.85	AVG	17.05	45.90	54.00	8.10



Frequency (MHz)	Receiver Reading (dBμV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
15434.870	34.25	peak	25.84	60.09	74.00	13.91
15434.870	24.76	AVG	25.84	50.60	54.00	3.40



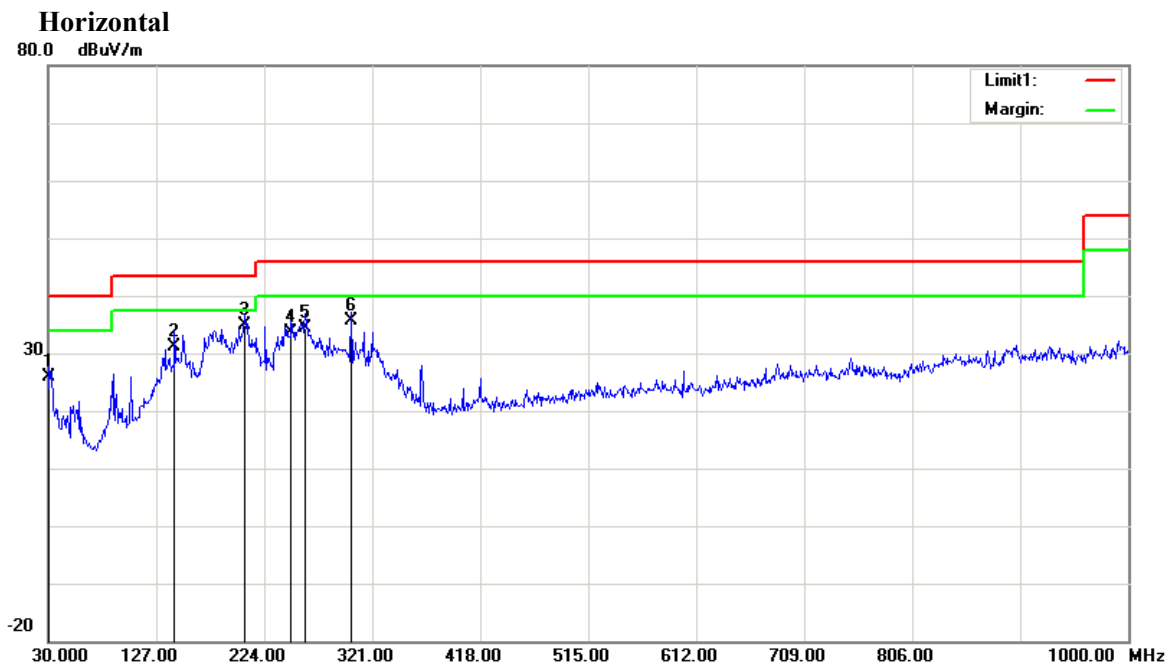
Frequency (MHz)	Receiver Reading (dBμV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
21730.461	40.64	peak	18.76	59.40	74.00	14.60
21730.461	31.04	AVG	18.76	49.80	54.00	4.20



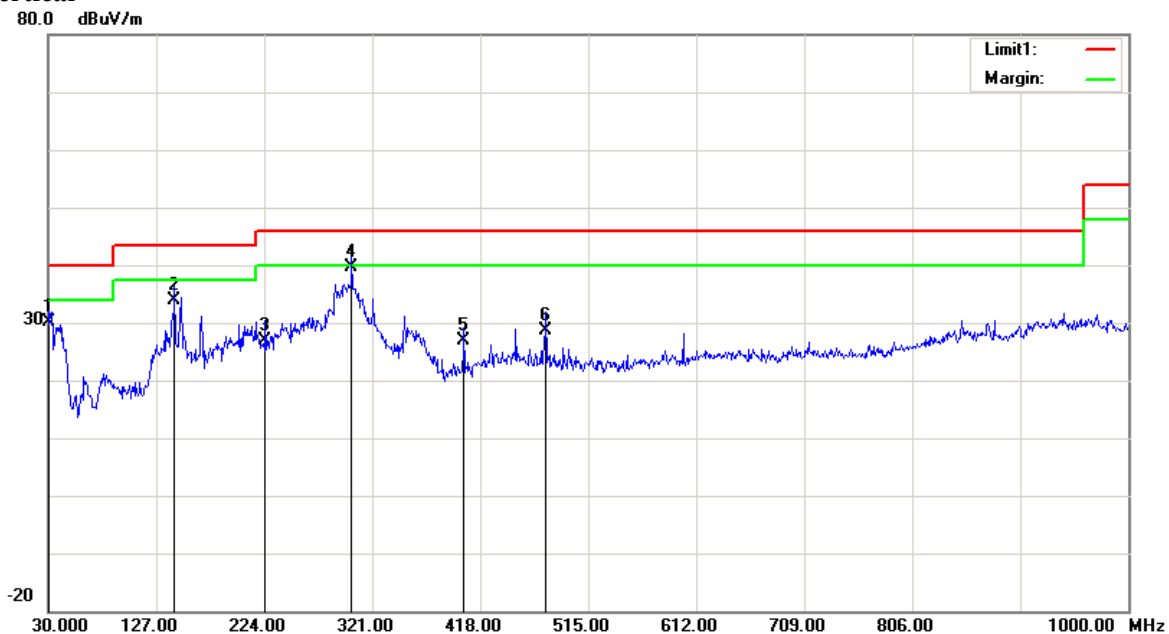
Frequency (MHz)	Receiver Reading (dBμV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
37375.751	33.33	peak	30.07	63.40	74.00	10.60
37375.751	20.13	AVG	30.07	50.20	54.00	3.80

Test Mode: Downloading

1) Below 1GHz:

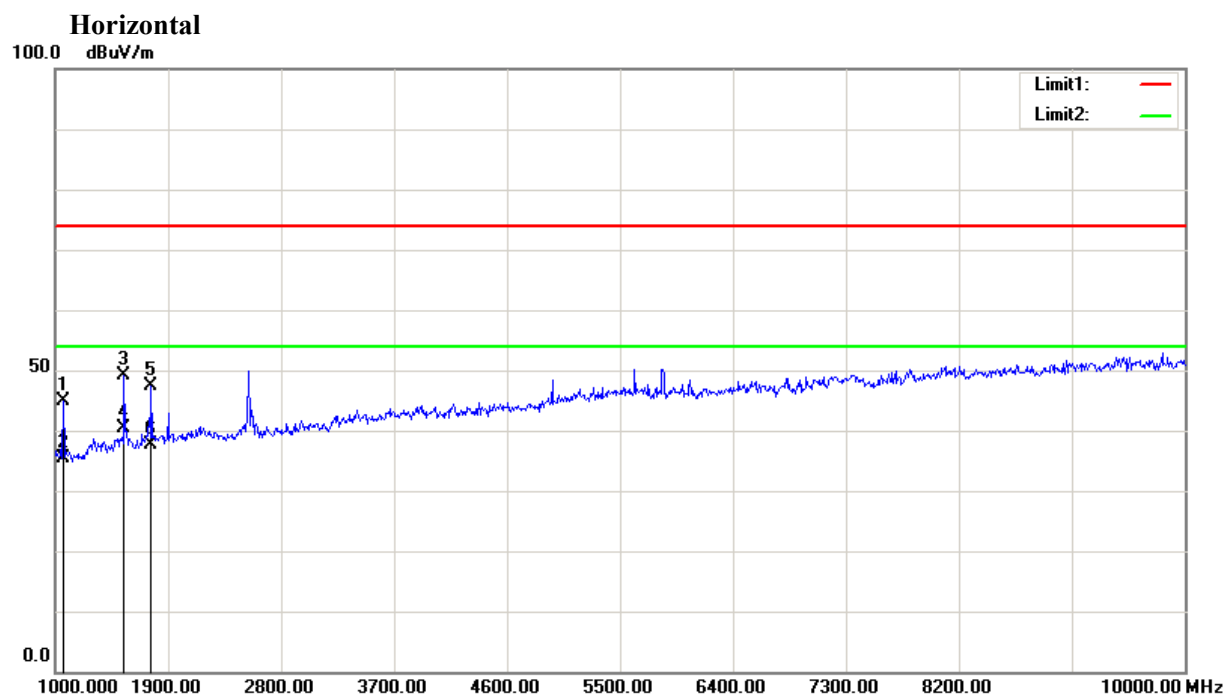


Frequency (MHz)	Receiver Reading (dBμV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
30.0000	33.64	QP	-7.74	25.90	40.00	14.10
143.4900	43.72	QP	-12.52	31.20	43.50	12.30
206.5400	48.71	QP	-13.91	34.80	43.50	8.70
248.2500	46.76	QP	-13.16	33.60	46.00	12.40
260.8600	46.97	QP	-12.47	34.50	46.00	11.50
301.6000	46.15	QP	-10.55	35.60	46.00	10.40

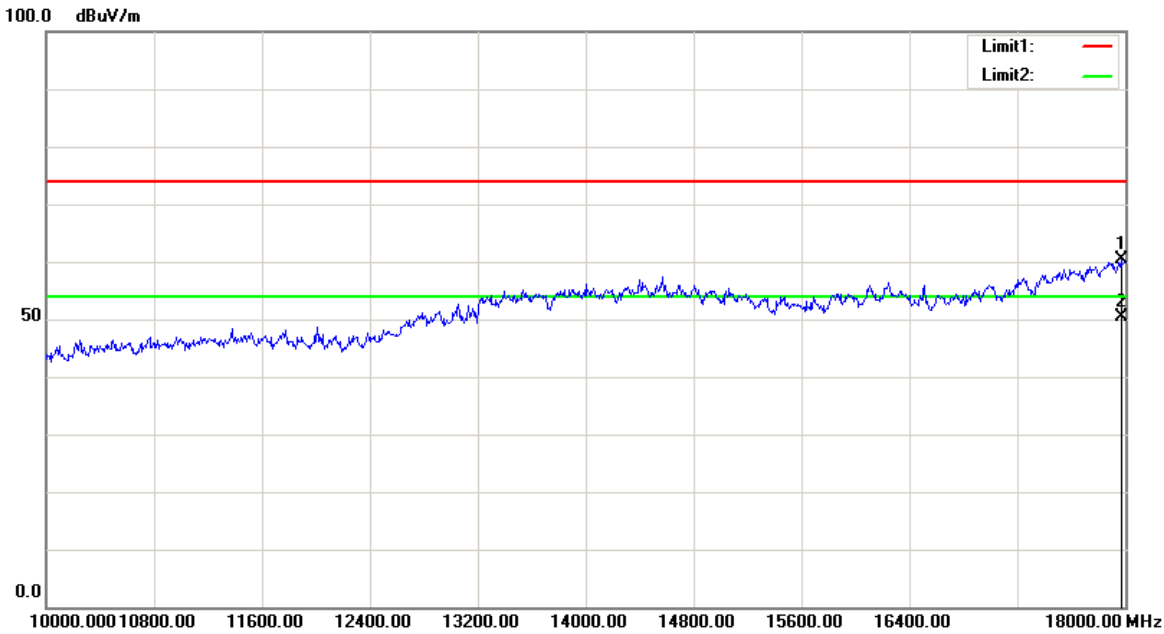
Vertical

Frequency (MHz)	Receiver Reading (dBμV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
30.0000	37.94	QP	-7.74	30.20	40.00	9.80
143.4900	46.32	QP	-12.52	33.80	43.50	9.70
224.9700	40.90	QP	-14.10	26.80	46.00	19.20
302.5700	50.23	QP	-10.53	39.70	46.00	6.30
403.4500	34.77	QP	-7.87	26.90	46.00	19.10
477.1700	35.10	QP	-6.40	28.70	46.00	17.30

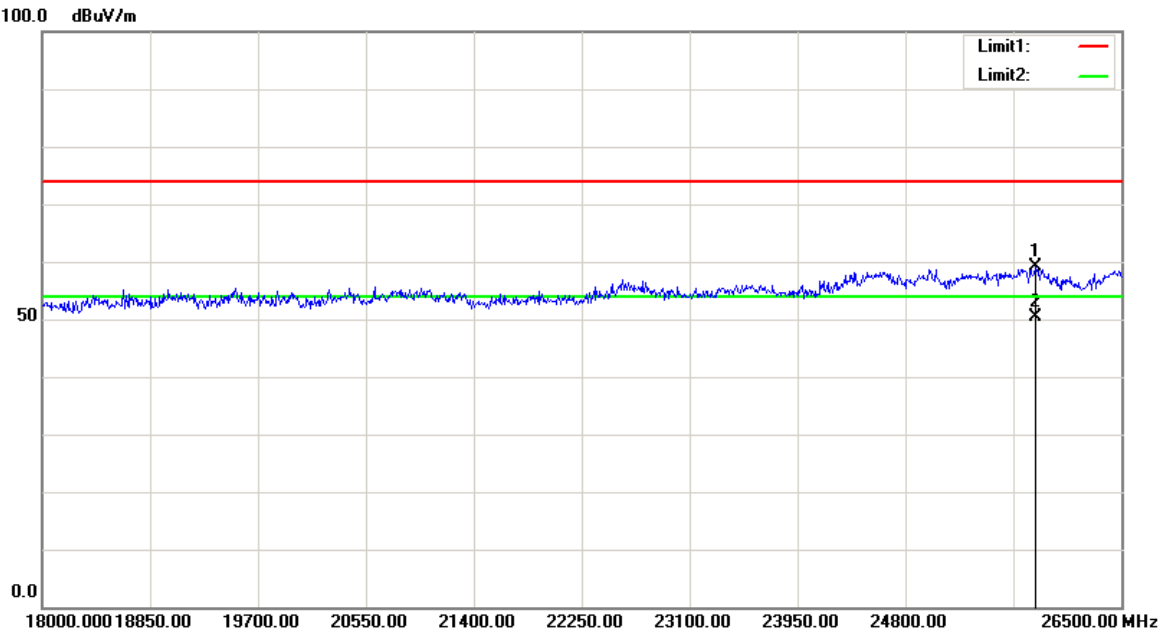
2) Above 1GHz:



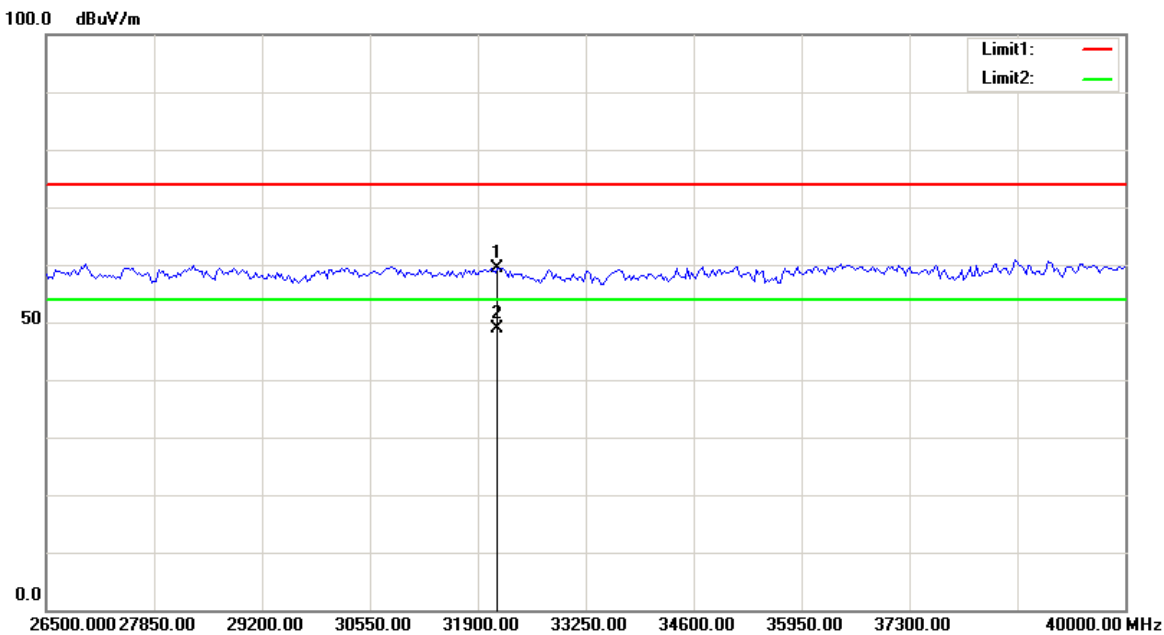
Frequency (MHz)	Receiver Reading (dB μ V)	Detector	Correction Factor (dB/m)	Cord. Amp. (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
1067.500	55.34	peak	-10.44	44.90	74.00	29.10
1067.500	45.70	AVG	-10.44	35.26	54.00	18.74
1549.000	58.07	peak	-8.92	49.15	74.00	24.85
1549.000	49.24	AVG	-8.92	40.32	54.00	13.68
1765.000	55.37	peak	-8.02	47.35	74.00	26.65
1765.000	45.60	AVG	-8.02	37.58	54.00	16.42



Frequency (MHz)	Receiver Reading (dBμV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
17968.000	43.39	peak	16.92	60.31	74.00	13.69
17968.000	33.40	AVG	16.92	50.32	54.00	3.68

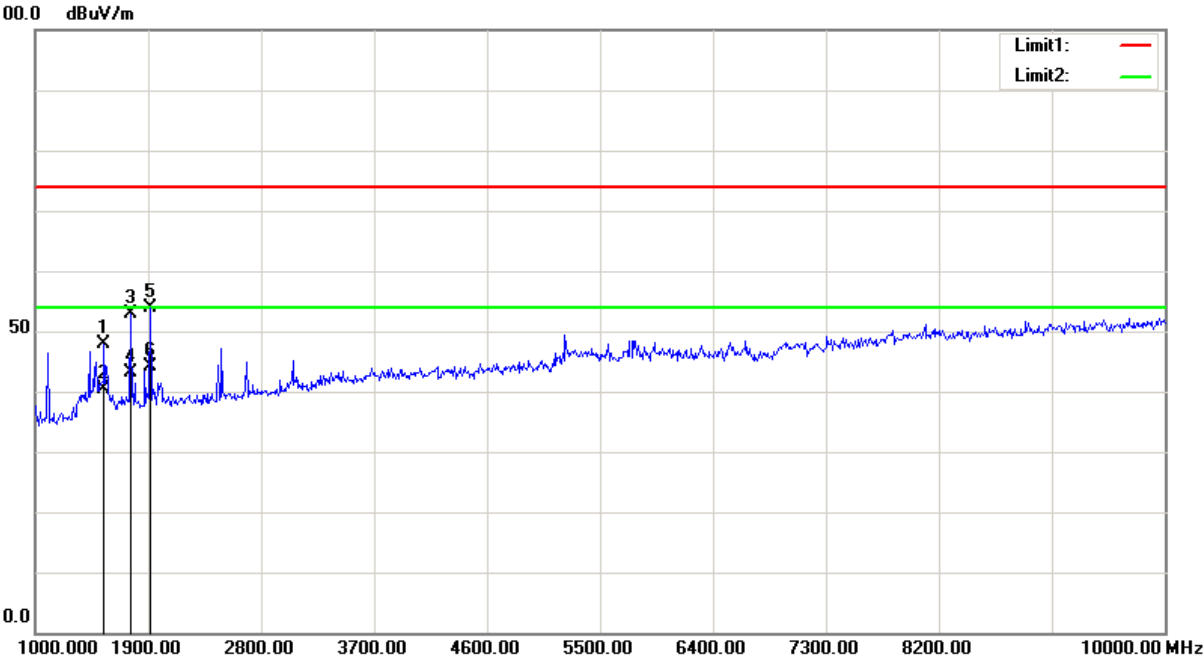


Frequency (MHz)	Receiver Reading (dBμV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
25832.750	59.13	peak	0.00	59.13	74.00	14.87
25832.750	50.36	AVG	0.00	50.36	54.00	3.64

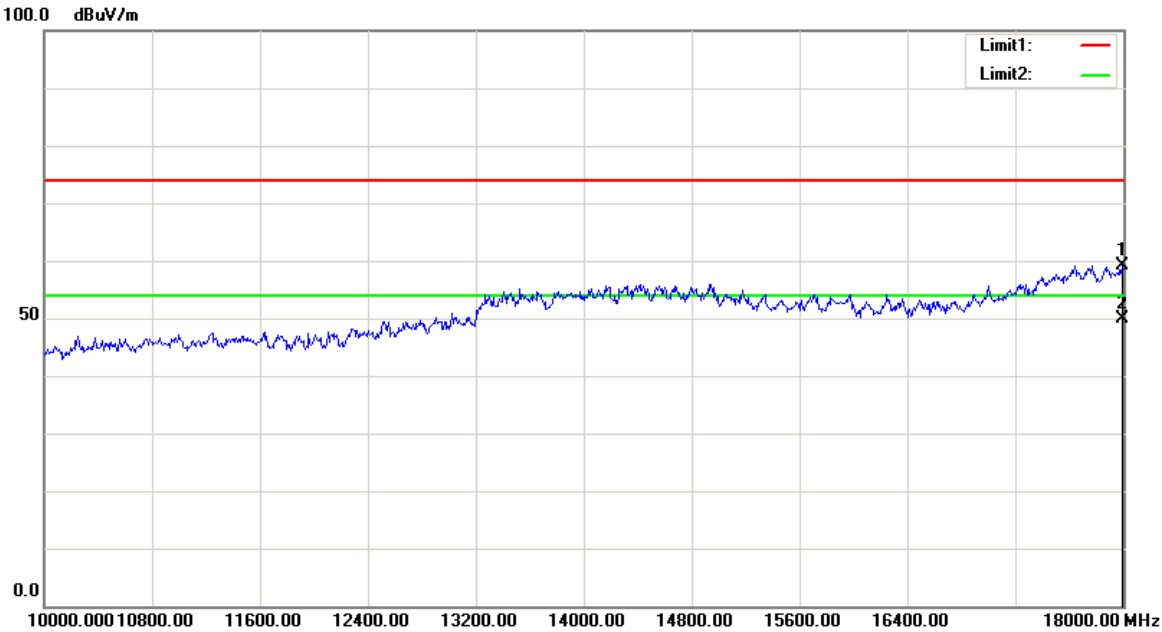


Frequency (MHz)	Receiver Reading (dBμV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
32143.000	59.48	peak	0.00	59.48	74.00	14.52
32143.000	48.97	AVG	0.00	48.97	54.00	5.03

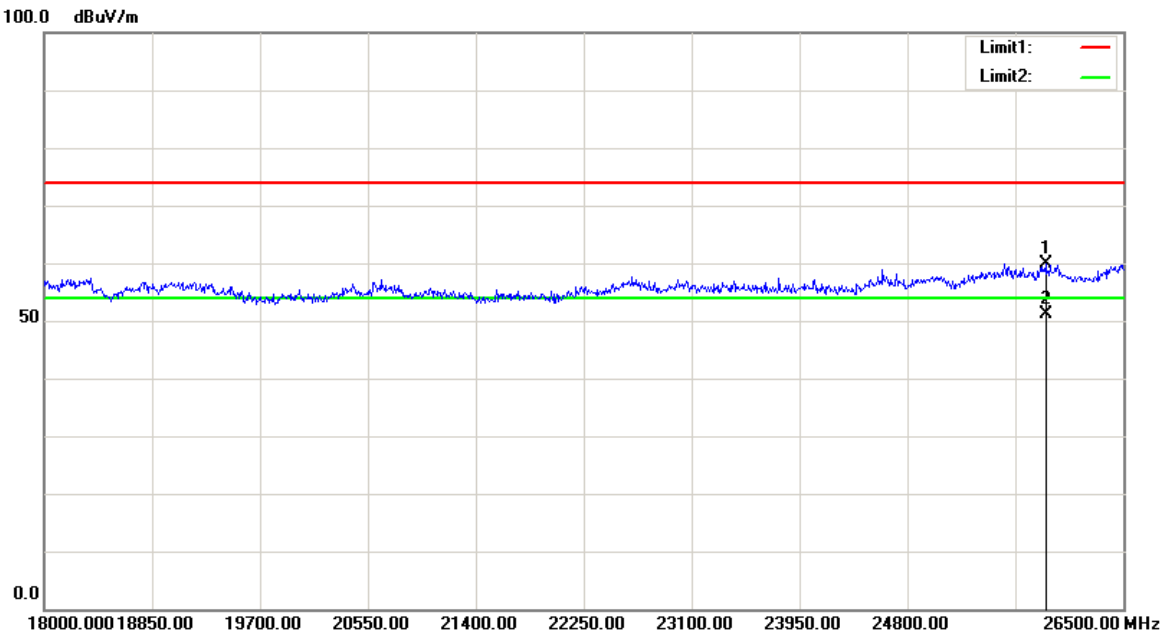
Vertical



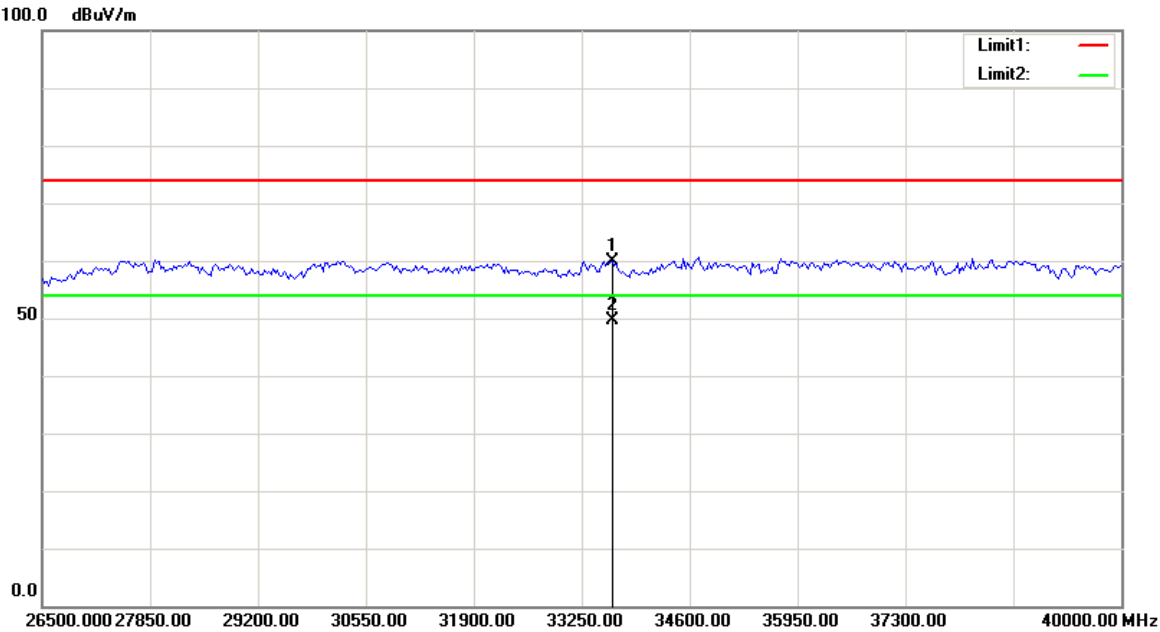
Frequency (MHz)	Receiver Reading (dBμV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1549.000	56.86	peak	-8.92	47.94	74.00	26.06
1549.000	49.24	AVG	-8.92	40.32	54.00	13.68
1760.500	60.96	peak	-8.05	52.91	74.00	21.09
1760.500	51.30	AVG	-8.05	43.25	54.00	10.75
1922.500	61.32	peak	-7.46	53.86	74.00	20.14
1922.500	51.64	AVG	-7.46	44.18	54.00	9.82



Frequency (MHz)	Receiver Reading (dBμV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
17996.000	42.09	peak	17.13	59.22	74.00	14.78
17996.000	32.74	AVG	17.13	49.87	54.00	4.13



Frequency (MHz)	Receiver Reading (dBμV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
25888.000	59.94	peak	0.00	59.94	74.00	14.06
25888.000	51.25	AVG	0.00	51.25	54.00	2.75



Frequency (MHz)	Receiver Reading (dBμV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
33628.000	59.97	peak	0.00	59.97	74.00	14.03
33628.000	49.58	AVG	0.00	49.58	54.00	4.42

****END OF REPORT****