中认信通
CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)

A2LA ACCREDITED
TESTING LABORATORY
CERTIFICATE # 6356.01

TEST REPORT

Applicant: **SAIN3 LLC**

Address: 36 Berkley Drive, Newark, Delaware, 19702 United States

FCC ID: **2AN62-MU5**

Product Name: **Two way radio**

Standard(s): **47 CFR Part 15 Subpart B**
ANSI C63.4-2014

The above equipment has been tested and found compliance with the requirement of the relative standards by China Certification ICT Co., Ltd (Dongguan)

Report Number: **CR22050024-00A**

Date Of Issue: **2022-08-08**

Reviewed By: **Sun Zhong** Sun Zhong

Title: Manager

Test Laboratory: **China Certification ICT Co., Ltd (Dongguan)**
No. 113, Pingkang Road, Dalang Town, Dongguan,
Guangdong, China
Tel: +86-769-82016888

Test Facility

The Test site used by China Certification ICT Co., Ltd (Dongguan) to collect test data is located on the No. 113, Pingkang Road, Dalang Town, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 442868, the FCC Designation No. : CN1314.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0123.

Declarations

China Certification ICT Co., Ltd (Dongguan) is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol "▲". Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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CONTENTS

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	Two way radio
EUT Model:	MU-5
Rated Input Voltage:	DC 7.4V from battery or DC 5V from adapter
Serial Number:	CR2205024-RF-S1
EUT Received Date:	2022.05.19
EUT Received Status:	GOOD

Accessory Information:

Accessory Description	Manufacturer	Model	Parameters
Adapter	Fujian Baofeng Electronic Co.,Ltd	BF-0501000	Input: AC 100-240V~50/60Hz 0.3A Output: DC 5.0V 1A

Operation Frequency And Test Channel:

Operation Modes	Operation Frequency Range (MHz)	Test Frequency
FM Broadcast Receiving	65-108	65.1MHz, 86.5MHz, 107.9MHz
MURS Receiving	151.820-154.600	151.820MHz, 154.600MHz
NOAA Receiving	161.65-162.525	162.40 MHz
VHF Receiving	136-174	136.0125 MHz, 150 MHz, 173.9875MHz
UHF Receiving	400-520	400.0125MHz, 460 MHz, 519.9875 MHz
VHF Scanning	136-174	/
UHF Scanning	400-520	/

1.2 Description of Test Configuration

1.2.1 EUT Operation Condition:

EUT Operation Mode:	The system was configured for testing in Typical Use Mode, which was provided by the manufacturer. Test Mode: Receiving/Scanning
Equipment Modifications:	No
EUT Exercise Software:	No

1.2.2 Support Equipment List and Details

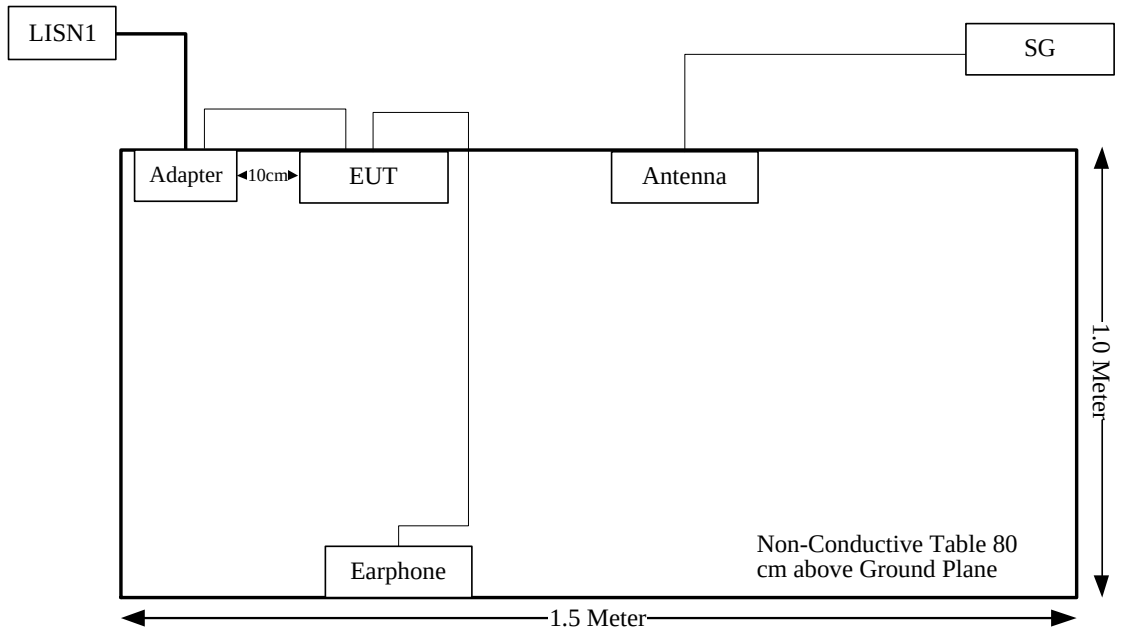
Manufacturer	Description	Model	Serial Number
Agilent	Signal Generator	E8247C	MY43321352

1.2.3 Support Cable List and Details

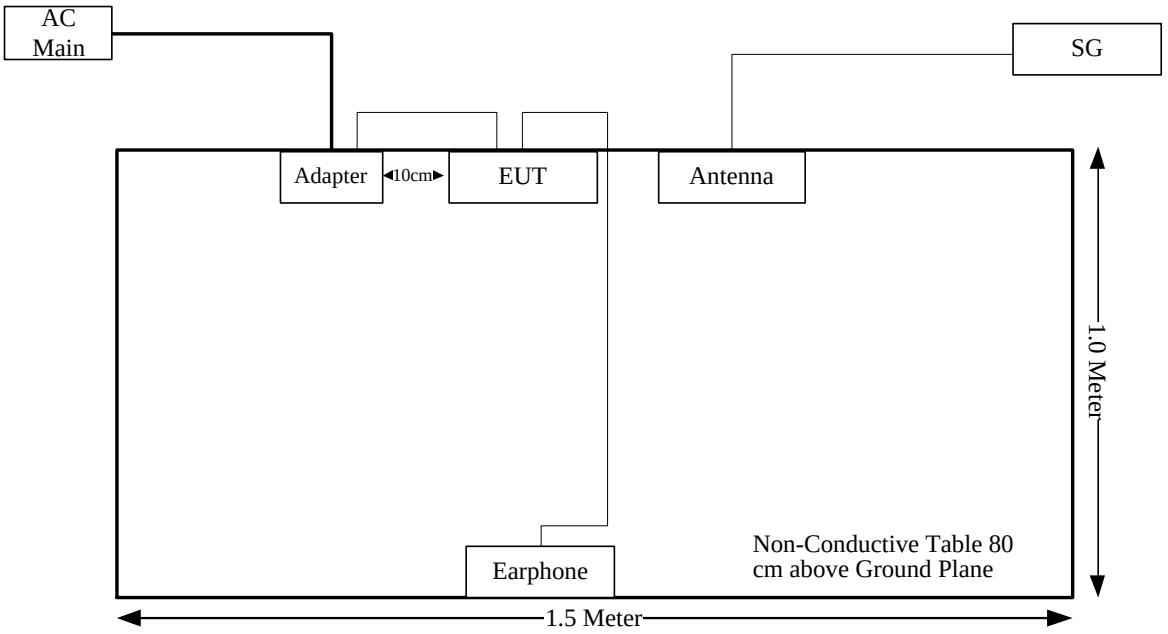
Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
DC Cable	No	No	1.2	Adapter	EUT
Headphone Cable	No	No	1.5	EUT	Headphone

1.2.4 Block Diagram of Test Setup

Conducted emissions:



Radiated emissions:



1.3 Measurement Uncertainty

Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

Parameter	Measurement Uncertainty
Unwanted Emissions, radiated	30M~200MHz: 4.15 dB,200M~1GHz: 5.61 dB,1G~6GHz: 5.14 dB, 6G~18GHz: 5.93 dB,18G~26.5G:5.47 dB,26.5G~40G:5.63 dB
Temperature	±1℃
Humidity	±5%
AC Power Lines Conducted Emission	2.8 dB (150 kHz to 30 MHz)

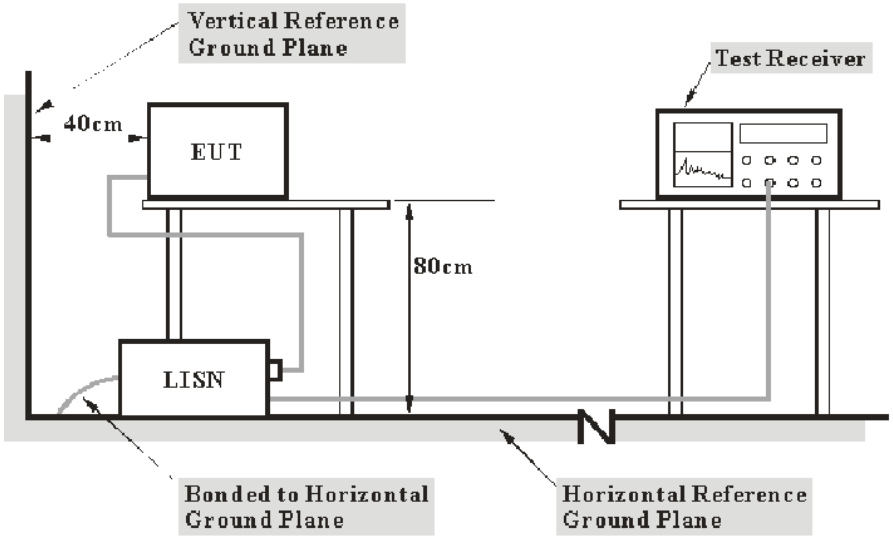
2. SUMMARY OF TEST RESULTS

Standard(s) Section	Description of Test	Result
§15.107	Conducted emissions	Compliant
§15.109	Radiated emissions	Compliant
§15.111	Antenna power conduction limits for receivers	Compliant
§15.121(b)	Scanning receivers and frequency converters used with scanning receivers	Compliant

3. REQUIREMENTS AND TEST PROCEDURES

3.1 AC Line Conducted Emissions

3.1.1 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 a 120 V/60 Hz AC power source.

3.1.2 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

3.1.3 Test Procedure

During the conducted emission test, the adapter 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, the report shall list the six emissions with the smallest margin relative to the limit, unless the margin is greater than 20 dB.

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

The report shall list the six emissions with the smallest margin relative to the limit, unless the margin is greater than 20 dB.

3.1.4 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor
Factor = attenuation caused by cable loss + voltage division factor of AMN

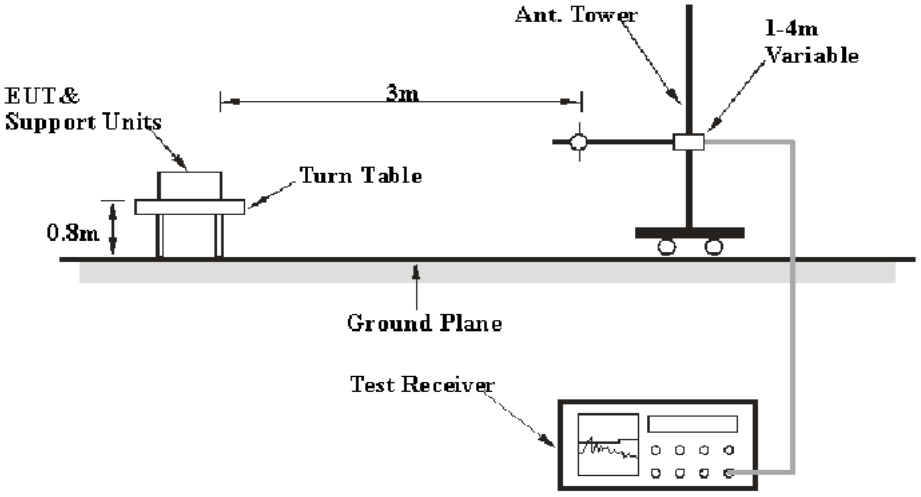
The "**Margin**" column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

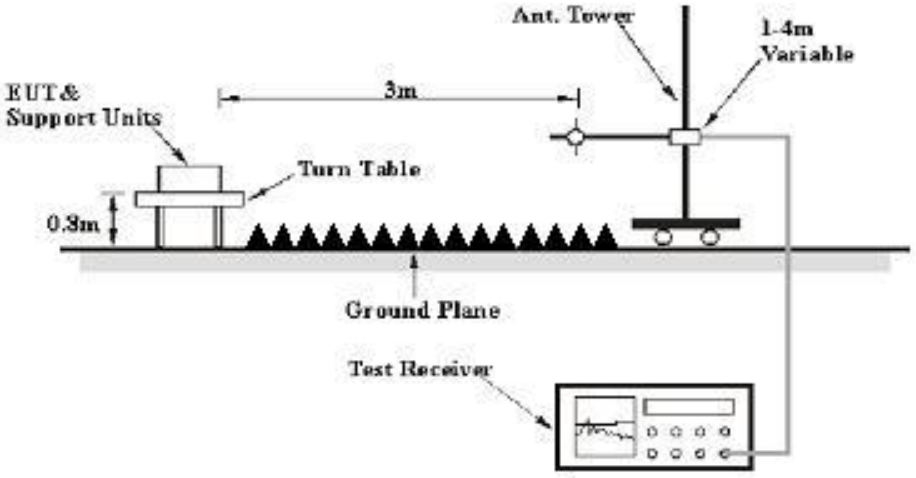
3.2 Radiation Spurious Emissions

3.2.1 EUT Setup

Below 1GHz:



Above 1GHz:



The radiated emission was performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.4-2014. The specification used was with the FCC Part 15 B Class B limits.

3.2.2 EMI Test Receiver Setup

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

If the maximized peak measured value complies with under the limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

3.2.3 Test Procedure

During the radiated emissions, the adapter was connected to the first AC floor outlet and the other support equipments were connected to the second AC floor outlet.

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.

All emissions under the average limit and under the noise floor have not recorded in the report.

3.2.4 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor
Factor = Antenna Factor + Cable Loss- Amplifier Gain

The "**Margin**" column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

3.3 Antenna Power Conduction Limits for Receivers

3.3.1 Applicable Standard

FCC §15.111.

(a) In addition to the radiated emission limits, receivers that operate (tune) in the frequency range 30 to 960 MHz and CB receivers that provide terminals for the connection of an external receiving antenna may be tested to demonstrate compliance with the provisions of § 15.109 with the antenna terminals shielded and terminated with a resistive termination equal to the impedance specified for the antenna, provided these receivers also comply with the following: With the receiver antenna terminal connected to a resistive termination equal to the impedance specified or employed for the antenna, the power at the antenna terminal at any frequency within the range of measurements specified in § 15.33 shall not exceed 2.0 nanowatts.

Test Procedure

EUT antenna port connected to a spectrum analyzer, the traces were recorded as shown on the data pages.

3.4 Scanning Receivers and Frequency Converters Used with Scanning Receivers

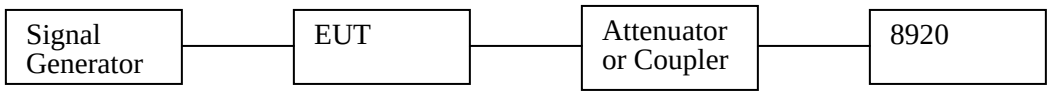
Applicable Standard

FCC §15.121(b).

(b) Except as provided in paragraph (c) of this section, scanning receivers shall reject any signals from the Cellular Radiotelephone Service frequency bands that are 38 dB or lower based upon a 12 dB SINAD measurement, which is considered the threshold where a signal can be clearly discerned from any interference that may be present.

Test Procedure

1. Connected the EUT as the below block diagram;



2. Apply a signal to the EUT antenna port at lowest, middle, highest channel frequencies of the operating band;
3. Adjust the audio output level of the EUT to it's rated value with the distortion less than 10%;
4. Adjust the Signal Generator output power to produce 12 dB SINAD without the audio output power dropping by more than 3 dB; These output level of the Signal Generator at each channel frequency is the sensitivity of the EUT;
5. Select the lowest or worst case sensitivity level for all of the bands as the reference sensitivity;
6. Adjust the Signal Generator output to a level of +60 dB above the reference sensitivity obtained in step 5 and its frequency to the frequency point in the Cellular Band;
7. Set the EUT squelch to threshold, the signal required to open the squelch must be lower than the reference sensitivity level;
8. Set the EUT in a scanning mode and allow it to scan through it's complete receiving range;
9. If the EUT un-squelched or stopped on any frequency, receiving at this frequency, then adjust the signal generator output level until 12 dB SINAD is produced, this level is the spurious value and the difference between the reference sensitivity and the spurious value is the rejection ratio and must be at least 38 dB;
10. Repeat above procedure at the frequencies 824, 836, 849 MHz for the mobile band, and 869, 881.5 and 894 MHz for the Cellular Base Band.

4. TEST DATA AND RESULTS

4.1 AC Line Conducted Emissions

Serial Number:	CR2205024-RF-S1	Test Date:	2022-07-08
Test Site:	CE	Test Mode:	Receiving/Scanning
Tester:	Vic Du	Test Result:	Pass

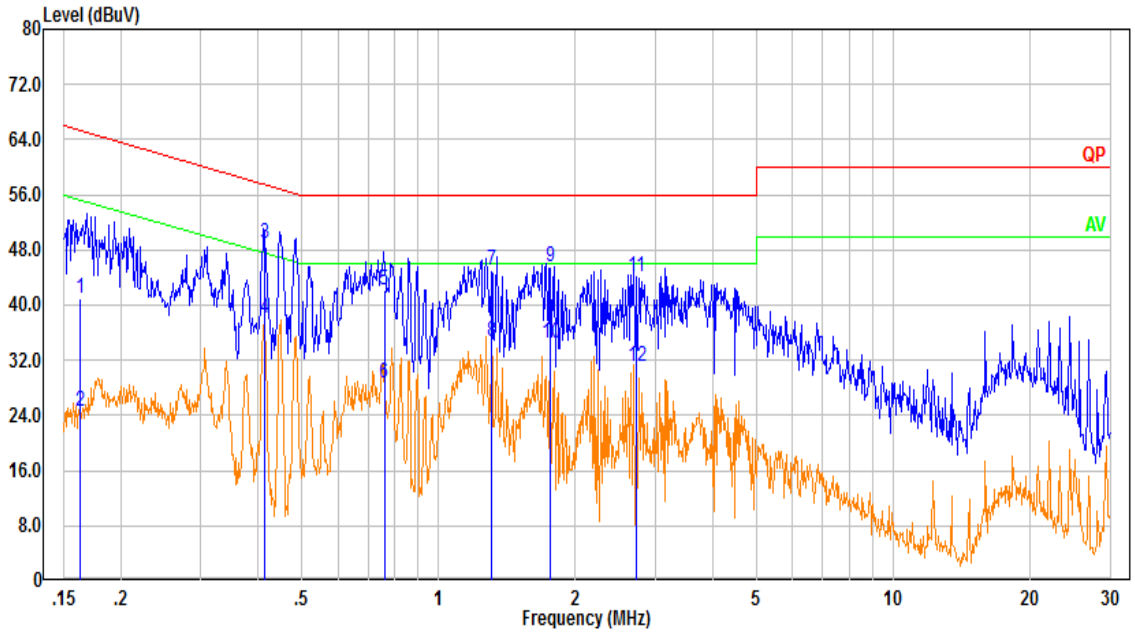
Environmental Conditions:					
Temperature: (℃)	28.4	Relative Humidity: (%)	71	ATM Pressure: (kPa)	100.2

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101134	2022-04-01	2023-03-31
R&S	EMI Test Receiver	ESR3	102726	2021-07-22	2022-07-21
MICRO-COAX	Coaxial Cable	UTIFLEX	C-0200-01	2021-08-08	2022-08-07
Audix	Test Software	E3	190306 (V9)	N/A	N/A

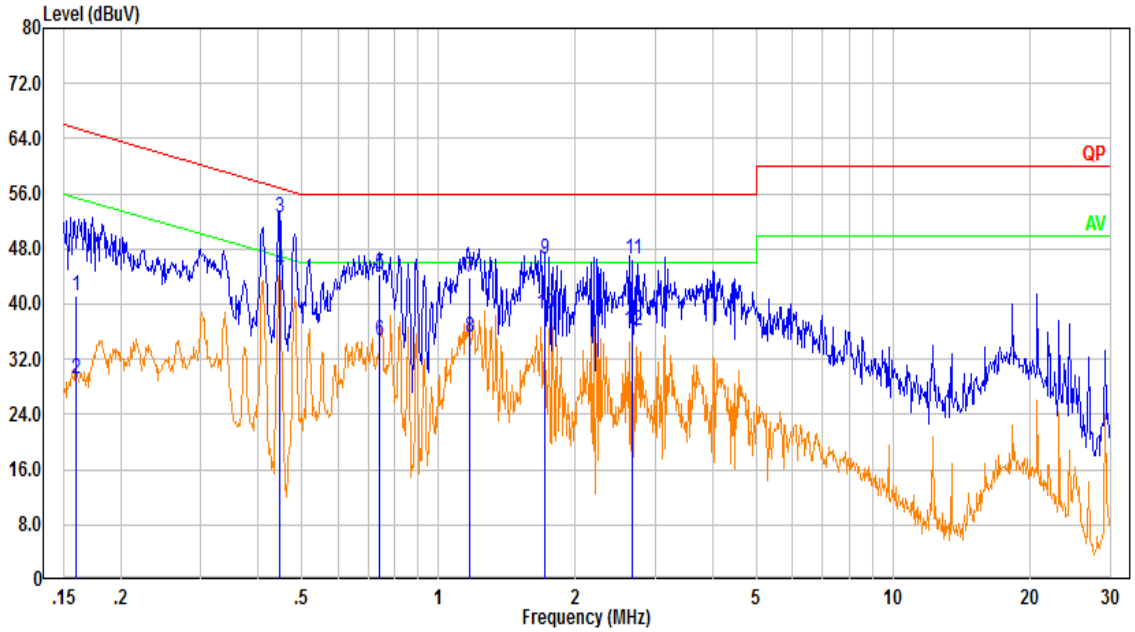
** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

FM Broadcast Receiving(86.5MHz was worst):
Line:



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Detector
1	0.163	31.27	9.61	40.88	65.30	24.42	QP
2	0.163	14.88	9.61	24.49	55.30	30.81	Average
3	0.413	39.21	9.61	48.82	57.58	8.76	QP
4	0.413	28.45	9.61	38.06	47.58	9.52	Average
5	0.759	32.54	9.62	42.16	56.00	13.84	QP
6	0.759	18.95	9.62	28.57	46.00	17.43	Average
7	1.308	35.49	9.62	45.11	56.00	10.89	QP
8	1.308	24.97	9.62	34.60	46.00	11.40	Average
9	1.755	35.87	9.63	45.49	56.00	10.51	QP
10	1.755	24.87	9.63	34.50	46.00	11.50	Average
11	2.724	34.38	9.64	44.03	56.00	11.97	QP
12	2.724	21.50	9.64	31.14	46.00	14.86	Average

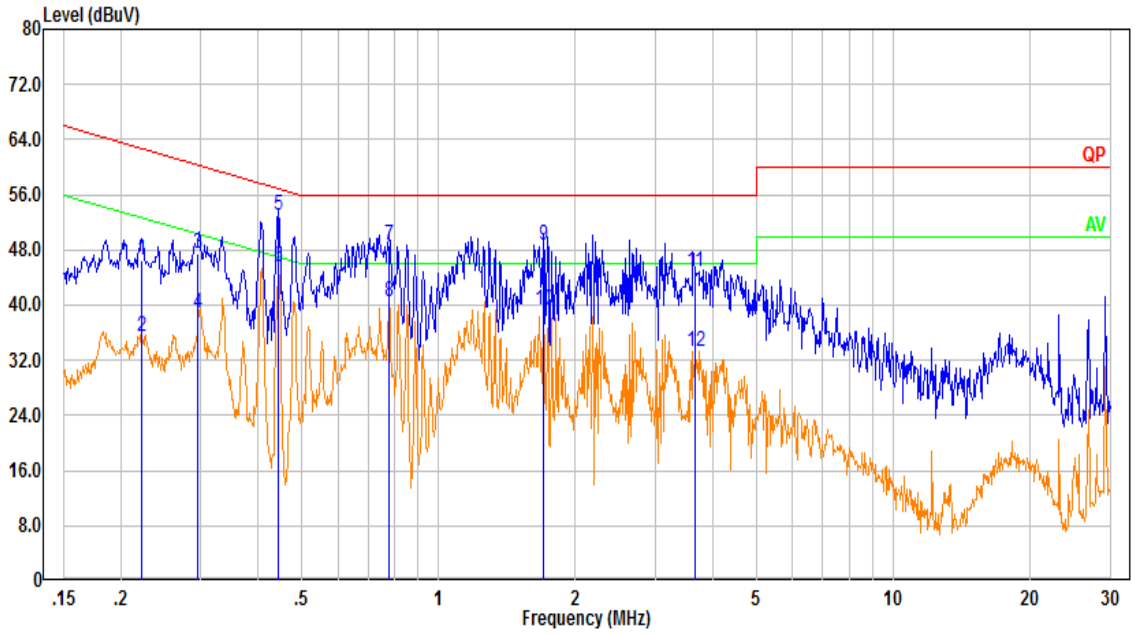
Neutral:



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Detector
1	0.160	31.55	9.61	41.16	65.48	24.32	QP
2	0.160	19.51	9.61	29.12	55.48	26.36	Average
3	0.446	42.95	9.61	52.56	56.95	4.39	QP
4	0.446	35.16	9.61	44.77	46.95	2.18	Average
5	0.743	34.72	9.62	44.34	56.00	11.66	QP
6	0.743	25.15	9.62	34.77	46.00	11.23	Average
7	1.167	34.13	9.62	43.75	56.00	12.25	QP
8	1.167	25.49	9.62	35.11	46.00	10.89	Average
9	1.709	36.82	9.63	46.45	56.00	9.55	QP
10	1.709	28.94	9.63	38.56	46.00	7.44	Average
11	2.670	36.80	9.64	46.44	56.00	9.56	QP
12	2.670	26.56	9.64	36.21	46.00	9.79	Average

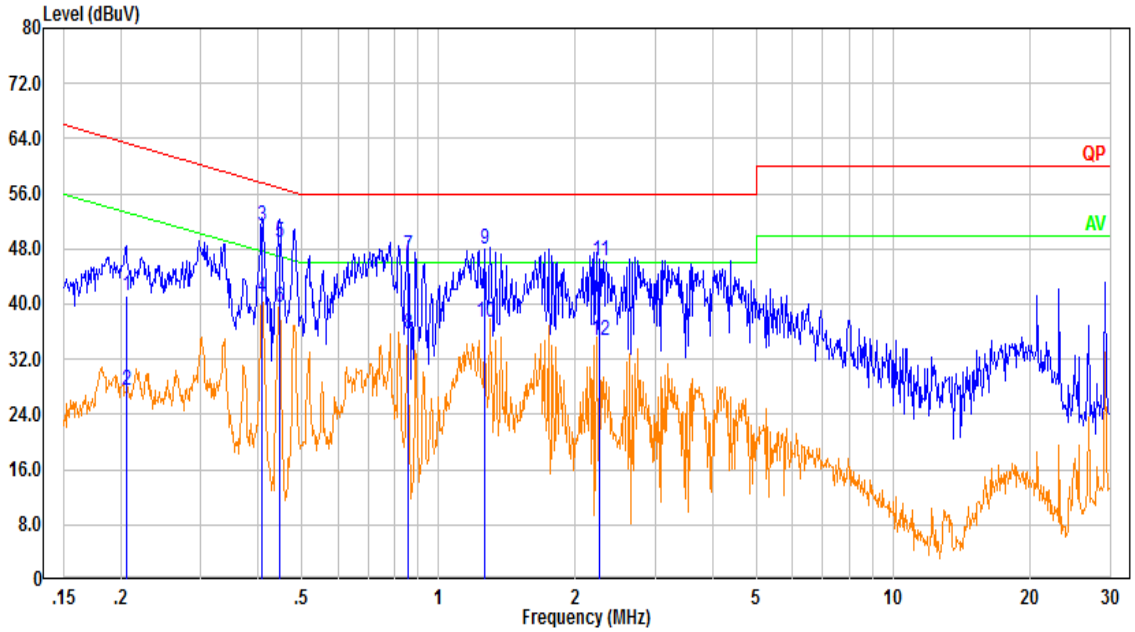
MURS Receiving(151.82MHz was worst):

Line:



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Detector
1	0.222	36.81	9.61	46.42	62.74	16.32	QP
2	0.222	25.91	9.61	35.52	52.74	17.22	Average
3	0.296	37.87	9.61	47.48	60.36	12.88	QP
4	0.296	29.23	9.61	38.84	50.36	11.52	Average
5	0.444	43.38	9.61	52.99	56.99	4.00	QP
6	0.444	35.95	9.61	45.56	46.99	1.43	Average
7	0.777	39.09	9.62	48.71	56.00	7.29	QP
8	0.777	30.97	9.62	40.59	46.00	5.41	Average
9	1.701	38.97	9.63	48.60	56.00	7.40	QP
10	1.701	29.59	9.63	39.22	46.00	6.78	Average
11	3.659	35.25	9.65	44.90	56.00	11.10	QP
12	3.659	23.49	9.65	33.14	46.00	12.86	Average

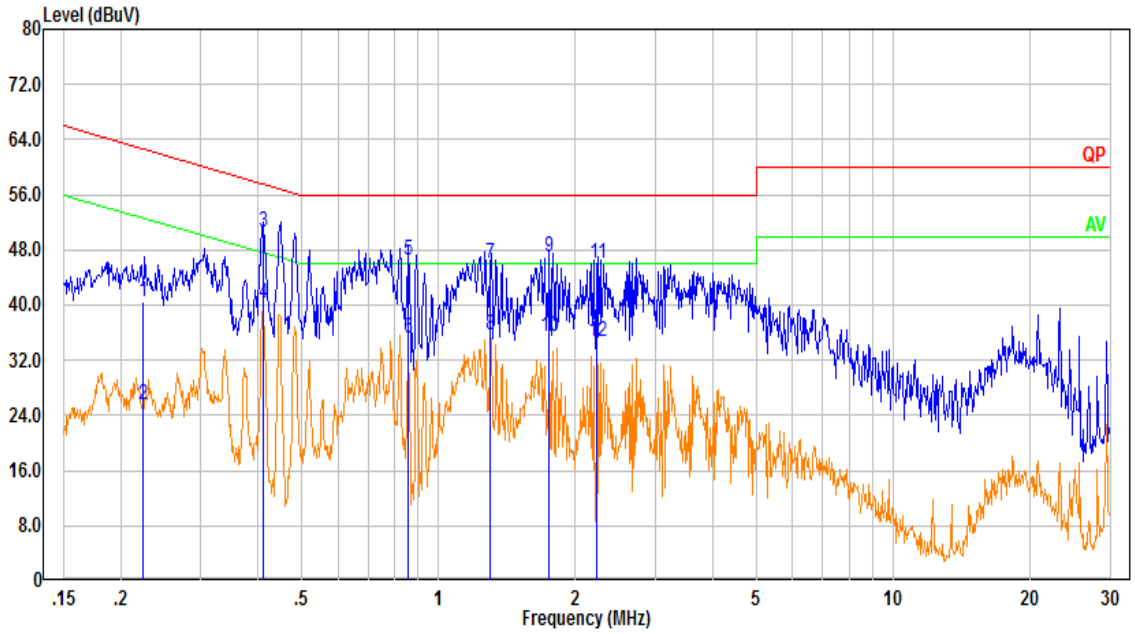
Neutral:



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Detector
1	0.206	31.48	9.61	41.09	63.37	22.28	QP
2	0.206	17.80	9.61	27.41	53.37	25.96	Average
3	0.409	41.82	9.61	51.43	57.66	6.23	QP
4	0.409	31.43	9.61	41.04	47.66	6.62	Average
5	0.447	39.25	9.61	48.86	56.93	8.07	QP
6	0.447	29.86	9.61	39.47	46.93	7.46	Average
7	0.856	37.40	9.62	47.02	56.00	8.98	QP
8	0.856	25.97	9.62	35.59	46.00	10.41	Average
9	1.263	38.23	9.62	47.86	56.00	8.14	QP
10	1.263	27.83	9.62	37.45	46.00	8.55	Average
11	2.262	36.65	9.64	46.29	56.00	9.71	QP
12	2.262	25.17	9.64	34.80	46.00	11.20	Average

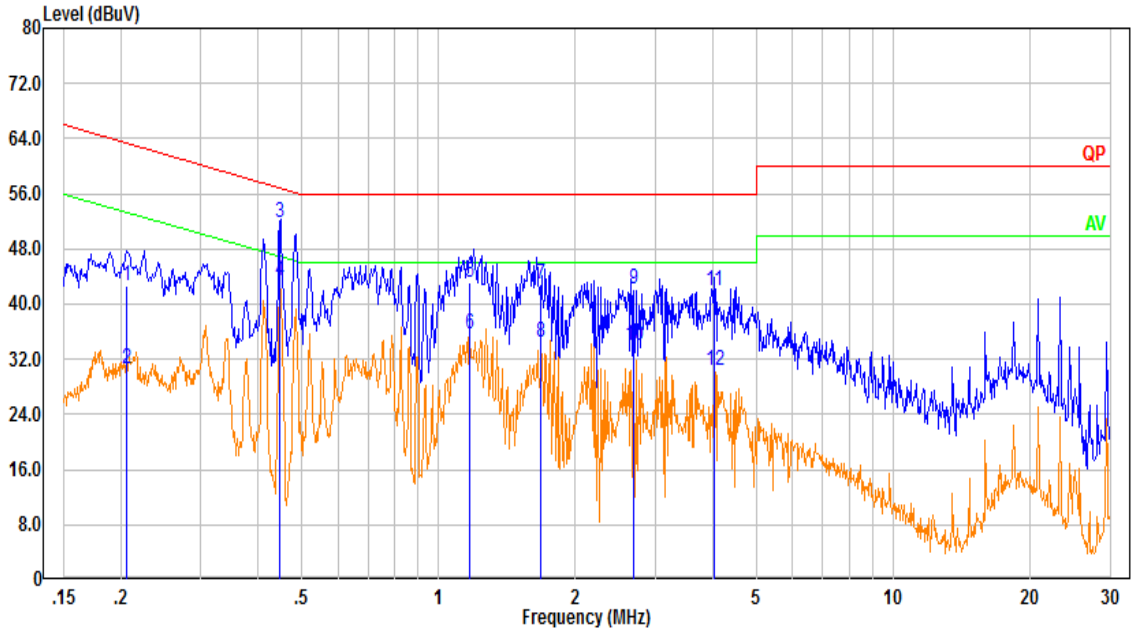
NOAA Receiving(162.40MHz):

Line:



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Detector
1	0.223	30.81	9.61	40.42	62.69	22.27	QP
2	0.223	15.96	9.61	25.57	52.69	27.12	Average
3	0.410	41.03	9.61	50.64	57.64	7.00	QP
4	0.410	30.54	9.61	40.15	47.64	7.49	Average
5	0.858	36.90	9.62	46.52	56.00	9.48	QP
6	0.858	25.46	9.62	35.08	46.00	10.92	Average
7	1.302	36.38	9.62	46.00	56.00	10.00	QP
8	1.302	26.15	9.62	35.77	46.00	10.23	Average
9	1.750	37.29	9.63	46.91	56.00	9.09	QP
10	1.750	25.71	9.63	35.33	46.00	10.67	Average
11	2.231	36.42	9.63	46.05	56.00	9.95	QP
12	2.231	25.05	9.63	34.68	46.00	11.32	Average

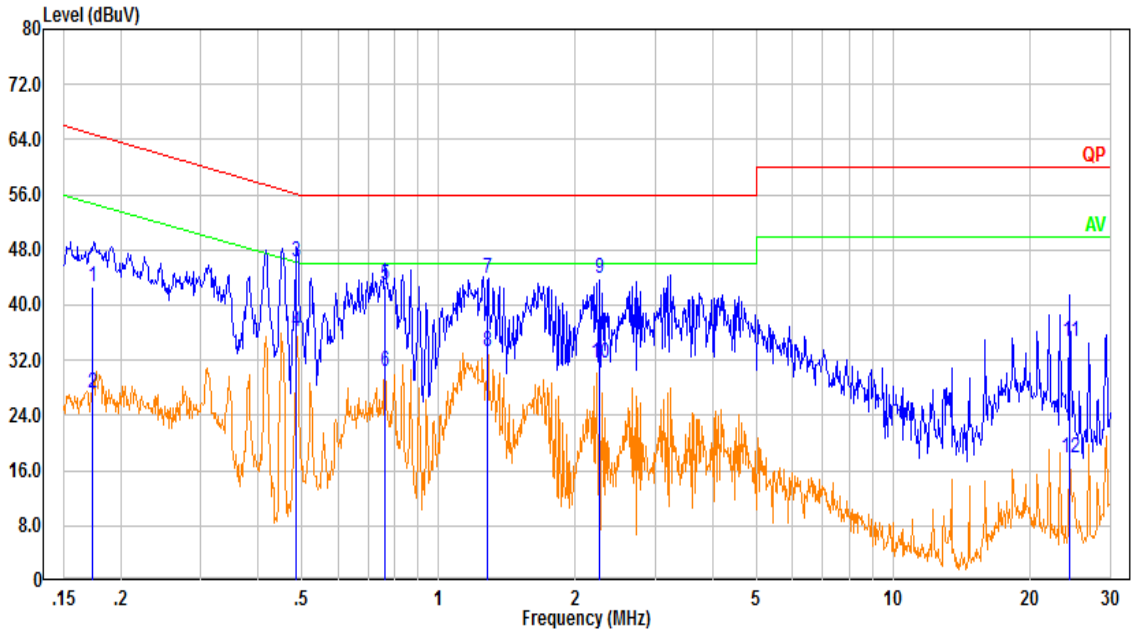
Neutral:



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Detector
1	0.206	33.10	9.61	42.71	63.37	20.66	QP
2	0.206	20.96	9.61	30.57	53.37	22.80	Average
3	0.448	42.16	9.61	51.77	56.92	5.15	QP
4	0.448	33.71	9.61	43.32	46.92	3.60	Average
5	1.168	33.62	9.62	43.25	56.00	12.75	QP
6	1.168	25.98	9.62	35.60	46.00	10.40	Average
7	1.681	33.27	9.63	42.90	56.00	13.10	QP
8	1.681	24.71	9.63	34.34	46.00	11.66	Average
9	2.684	32.55	9.64	42.20	56.00	13.80	QP
10	2.684	24.29	9.64	33.93	46.00	12.07	Average
11	4.027	32.22	9.65	41.87	56.00	14.13	QP
12	4.027	20.82	9.65	30.47	46.00	15.53	Average

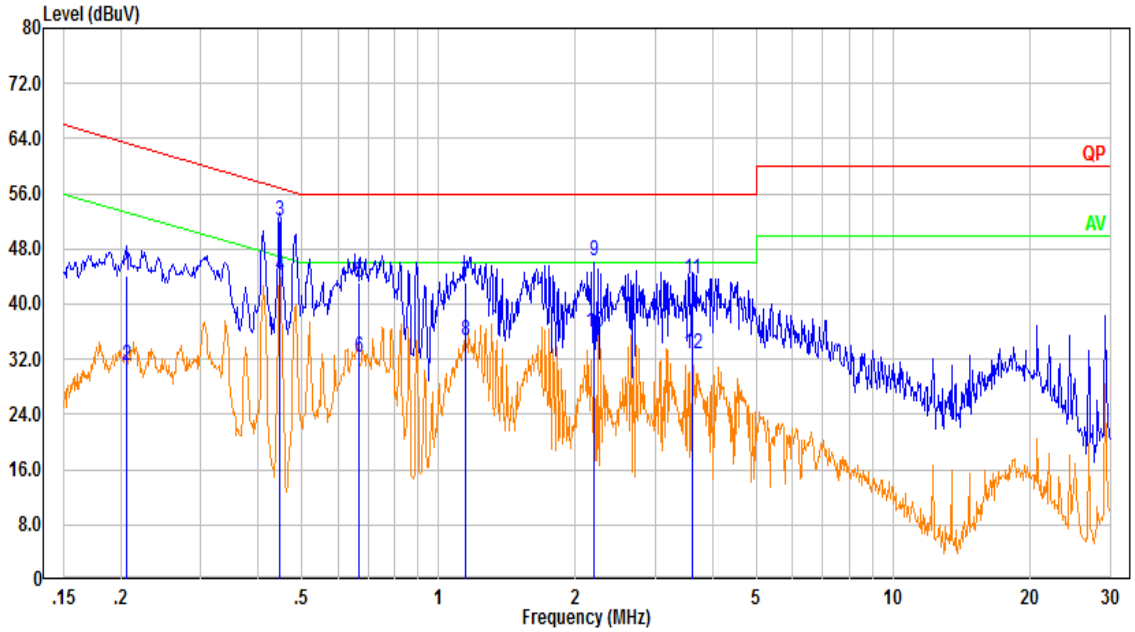
VHF Receiving(150MHz was worst):

Line:



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Detector
1	0.173	33.12	9.61	42.73	64.80	22.07	QP
2	0.173	17.61	9.61	27.22	54.80	27.57	Average
3	0.486	36.59	9.61	46.20	56.23	10.03	QP
4	0.486	26.44	9.61	36.05	46.23	10.18	Average
5	0.761	33.35	9.62	42.97	56.00	13.03	QP
6	0.761	20.79	9.62	30.41	46.00	15.59	Average
7	1.280	34.34	9.62	43.97	56.00	12.03	QP
8	1.280	23.61	9.62	33.23	46.00	12.77	Average
9	2.251	34.20	9.64	43.84	56.00	12.16	QP
10	2.251	21.91	9.64	31.54	46.00	14.46	Average
11	24.496	24.81	9.81	34.62	60.00	25.38	QP
12	24.496	8.02	9.81	17.83	50.00	32.17	Average

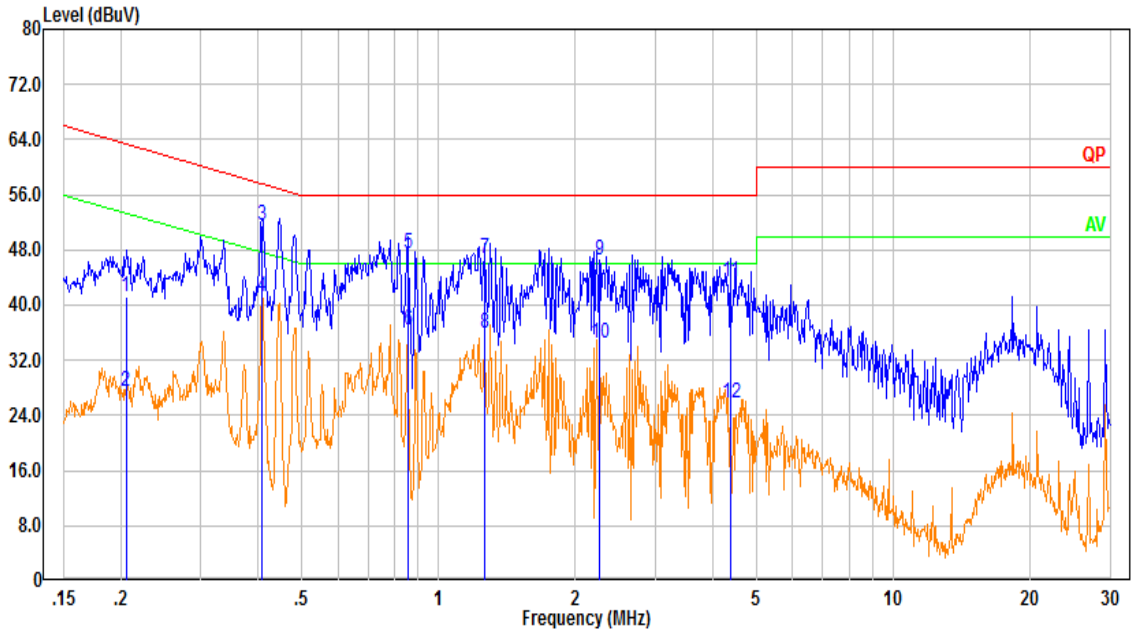
Neutral:



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Detector
1	0.205	34.48	9.61	44.09	63.39	19.30	QP
2	0.205	21.43	9.61	31.04	53.39	22.35	Average
3	0.446	42.52	9.61	52.13	56.95	4.82	QP
4	0.446	34.52	9.61	44.13	46.95	2.82	Average
5	0.669	33.54	9.62	43.16	56.00	12.84	QP
6	0.669	22.71	9.62	32.33	46.00	13.67	Average
7	1.143	33.57	9.62	43.20	56.00	12.80	QP
8	1.143	25.15	9.62	34.77	46.00	11.23	Average
9	2.194	36.53	9.63	46.16	56.00	9.84	QP
10	2.194	26.35	9.63	35.99	46.00	10.01	Average
11	3.605	33.85	9.65	43.50	56.00	12.50	QP
12	3.605	23.05	9.65	32.70	46.00	13.30	Average

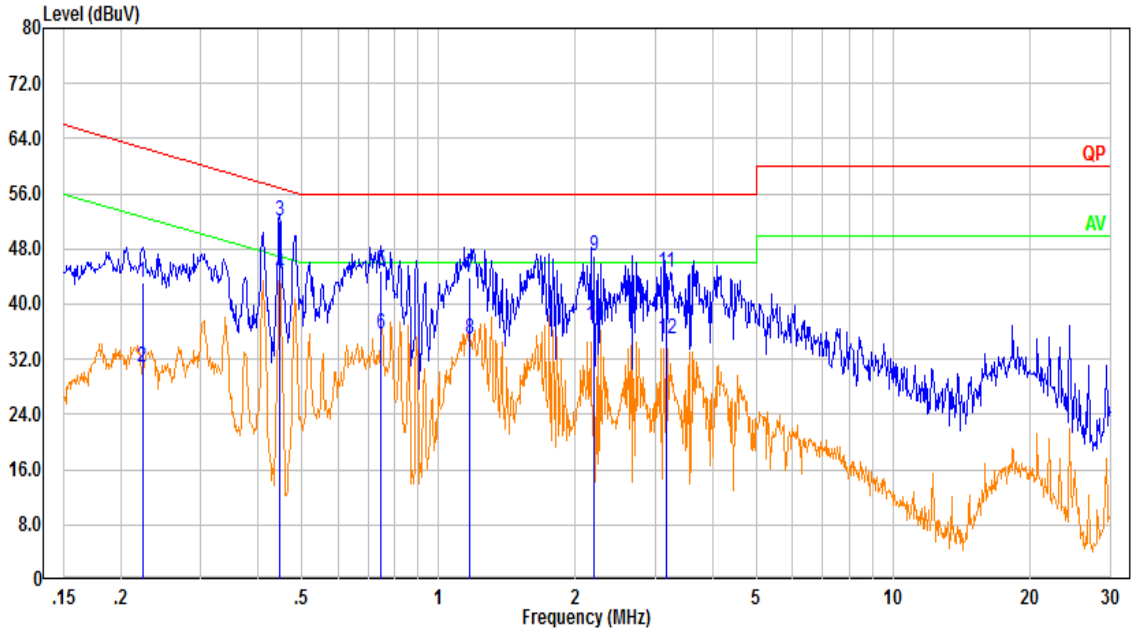
UHF Receiving(460MHz was worst):

Line:



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Detector
1	0.205	31.57	9.61	41.18	63.40	22.22	QP
2	0.205	17.98	9.61	27.59	53.40	25.81	Average
3	0.409	42.04	9.61	51.65	57.67	6.02	QP
4	0.409	31.67	9.61	41.28	47.67	6.39	Average
5	0.856	37.95	9.62	47.57	56.00	8.43	QP
6	0.856	26.83	9.62	36.45	46.00	9.55	Average
7	1.260	37.16	9.62	46.78	56.00	9.22	QP
8	1.260	26.31	9.62	35.94	46.00	10.06	Average
9	2.264	36.82	9.64	46.45	56.00	9.55	QP
10	2.264	24.83	9.64	34.46	46.00	11.54	Average
11	4.385	33.62	9.65	43.27	56.00	12.73	QP
12	4.385	16.17	9.65	25.82	46.00	20.18	Average

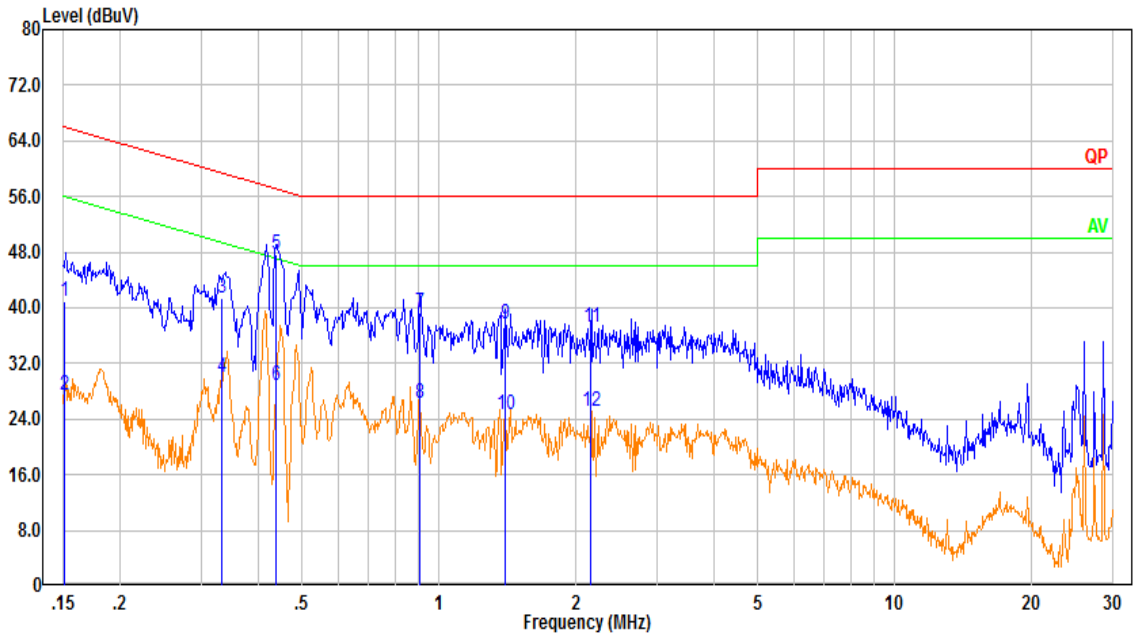
Neutral:



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Detector
1	0.223	33.43	9.61	43.04	62.71	19.67	QP
2	0.223	21.21	9.61	30.82	52.71	21.89	Average
3	0.446	42.52	9.61	52.13	56.95	4.82	QP
4	0.446	34.66	9.61	44.27	46.95	2.68	Average
5	0.746	35.30	9.62	44.92	56.00	11.08	QP
6	0.746	25.94	9.62	35.56	46.00	10.44	Average
7	1.168	34.14	9.62	43.76	56.00	12.24	QP
8	1.168	25.27	9.62	34.89	46.00	11.11	Average
9	2.195	37.44	9.63	47.08	56.00	8.92	QP
10	2.195	27.23	9.63	36.86	46.00	9.14	Average
11	3.160	34.96	9.65	44.61	56.00	11.39	QP
12	3.160	25.30	9.65	34.95	46.00	11.05	Average

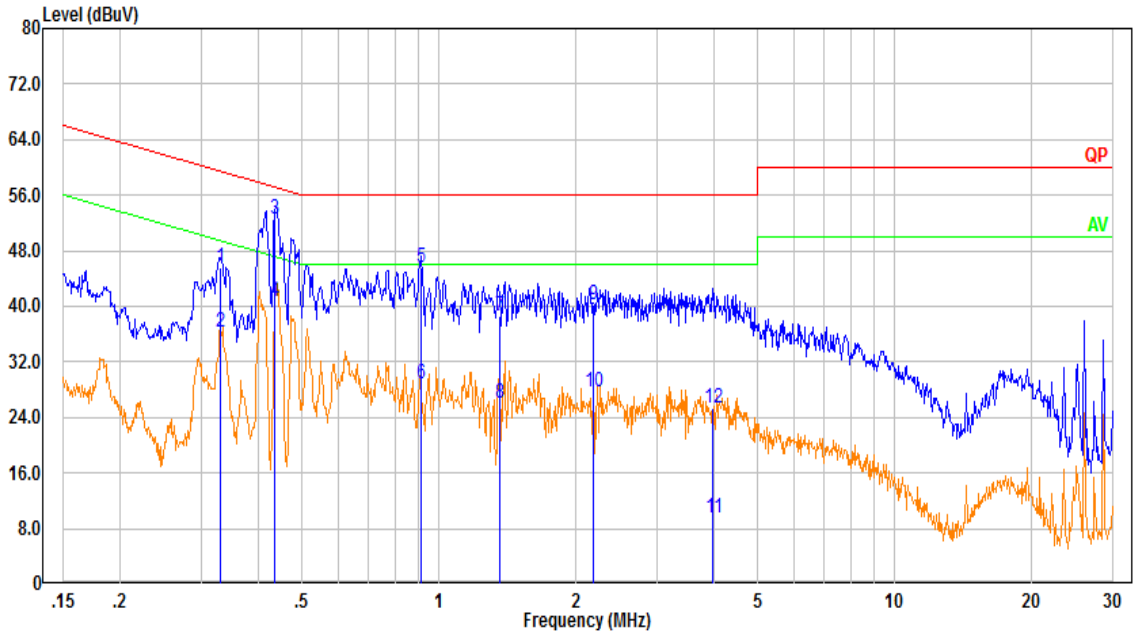
VHF Scanning:

Line:



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Detector
1	0.151	31.33	9.61	40.94	65.94	25.00	QP
2	0.151	17.75	9.61	27.36	55.94	28.58	Average
3	0.333	31.69	9.61	41.30	59.37	18.07	QP
4	0.333	20.40	9.61	30.01	49.37	19.36	Average
5	0.438	38.10	9.61	47.71	57.10	9.39	QP
6	0.438	19.19	9.61	28.80	47.10	18.30	Average
7	0.908	29.69	9.62	39.31	56.00	16.69	QP
8	0.908	16.64	9.62	26.26	46.00	19.74	Average
9	1.398	28.02	9.62	37.64	56.00	18.36	QP
10	1.398	15.12	9.62	24.74	46.00	21.26	Average
11	2.157	27.47	9.63	37.10	56.00	18.90	QP
12	2.157	15.43	9.63	25.07	46.00	20.93	Average

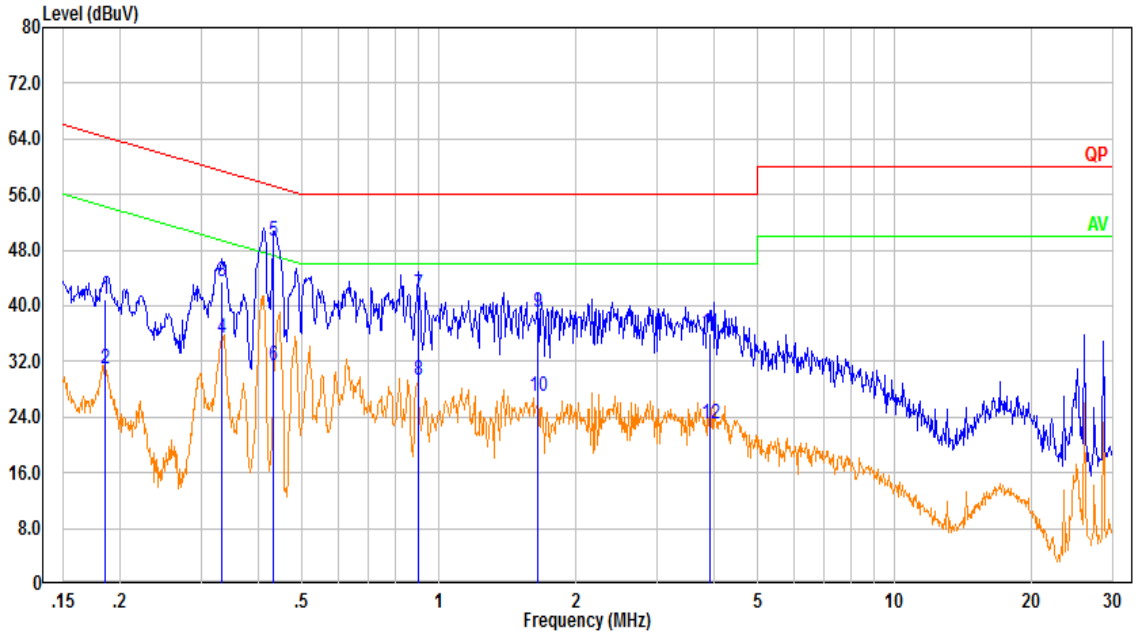
Neutral:



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Detector
1	0.331	36.02	9.61	45.63	59.43	13.80	QP
2	0.331	26.56	9.61	36.17	49.43	13.26	Average
3	0.437	42.99	9.61	52.60	57.12	4.52	QP
4	0.437	31.16	9.61	40.77	47.12	6.35	Average
5	0.911	35.86	9.62	45.48	56.00	10.52	QP
6	0.911	19.13	9.62	28.75	46.00	17.25	Average
7	1.361	29.01	9.62	38.64	56.00	17.36	QP
8	1.361	16.40	9.62	26.02	46.00	19.98	Average
9	2.187	30.57	9.63	40.20	56.00	15.80	QP
10	2.187	18.13	9.63	27.77	46.00	18.23	Average
11	3.998	0.00	9.65	9.65	56.00	46.35	QP
12	3.998	15.61	9.65	25.26	46.00	20.74	Average

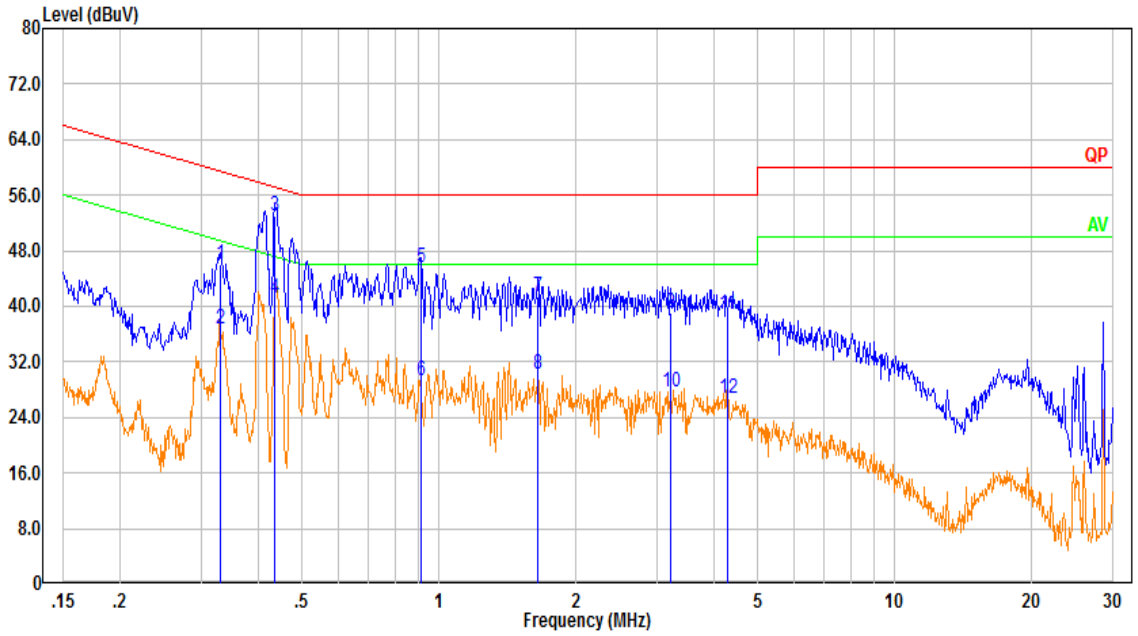
UHF Scanning:

Line:



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Detector
1	0.185	31.22	9.61	40.83	64.27	23.44	QP
2	0.185	21.37	9.61	30.98	54.27	23.29	Average
3	0.333	33.98	9.61	43.59	59.38	15.79	QP
4	0.333	25.74	9.61	35.35	49.38	14.03	Average
5	0.434	39.70	9.61	49.31	57.18	7.87	QP
6	0.434	21.69	9.61	31.30	47.18	15.88	Average
7	0.899	31.90	9.62	41.52	56.00	14.48	QP
8	0.899	19.62	9.62	29.24	46.00	16.76	Average
9	1.649	29.42	9.63	39.04	56.00	16.96	QP
10	1.649	17.31	9.63	26.94	46.00	19.06	Average
11	3.934	26.32	9.65	35.97	56.00	20.03	QP
12	3.934	13.37	9.65	23.02	46.00	22.98	Average

Neutral:



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Detector
1	0.331	36.44	9.61	46.05	59.43	13.38	QP
2	0.331	27.17	9.61	36.78	49.43	12.65	Average
3	0.436	43.37	9.61	52.98	57.14	4.16	QP
4	0.436	31.52	9.61	41.13	47.14	6.01	Average
5	0.911	35.89	9.62	45.51	56.00	10.49	QP
6	0.911	19.67	9.62	29.29	46.00	16.71	Average
7	1.651	31.87	9.63	41.49	56.00	14.51	QP
8	1.651	20.71	9.63	30.34	46.00	15.66	Average
9	3.229	29.49	9.65	39.14	56.00	16.86	QP
10	3.229	18.08	9.65	27.73	46.00	18.27	Average
11	4.294	29.30	9.65	38.95	56.00	17.05	QP
12	4.294	17.05	9.65	26.70	46.00	19.30	Average

4.2 Radiation Spurious Emissions

Serial Number:	CR2205024-RF-S1	Test Date:	2022-06-01~2022-07-16
Test Site:	966-1/966-2	Test Mode:	Receiving/Scanning
Tester:	Gary Ling	Test Result:	Pass

Environmental Conditions:					
Temperature: (℃)	24.9~30.2	Relative Humidity: (%)	51~55	ATM Pressure: (kPa)	100.1~100.2

Test Equipment List and Details:

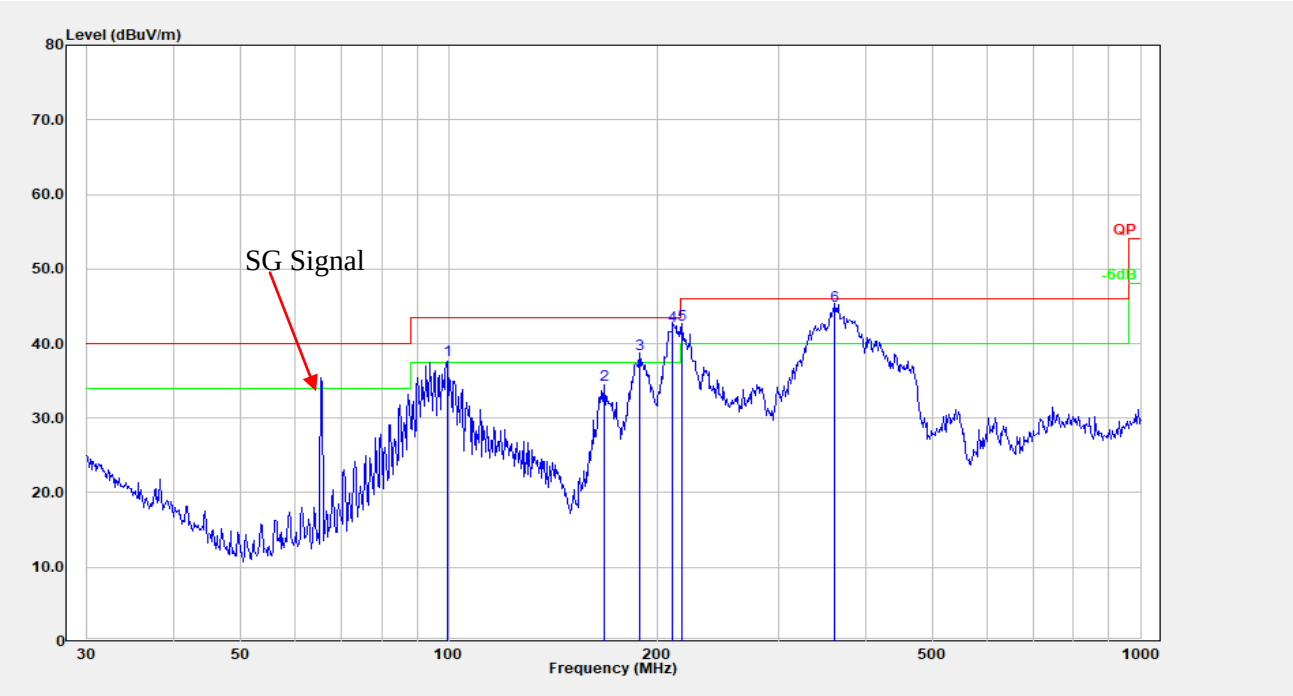
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
ETS-Lindgren	Horn Antenna	3115	9912-5985	2020-10-13	2023-10-12
R&S	Spectrum Analyzer	FSV40	101591	2021-07-22	2022-07-21
MICRO-COAX	Coaxial Cable	UFA210A-1-1200-70U300	217423-008	2021-08-08	2022-08-07
MICRO-COAX	Coaxial Cable	UFA210A-1-2362-300300	235780-001	2021-08-08	2022-08-07
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2021-11-10	2022-11-09
Sunol Sciences	Antenna	JB6	A082520-5	2020-10-19	2023-10-18
R&S	EMI Test Receiver	ESR3	102724	2021-07-22	2022-07-21
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0470-02	2021-07-18	2022-07-17
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0780-01	2021-07-18	2022-07-17
Sonoma	Amplifier	310N	186165	2021-07-18	2022-07-17
Audix	Test Software	E3	201021 (V9)	N/A	N/A

** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

1) 30MHz-1GHz:

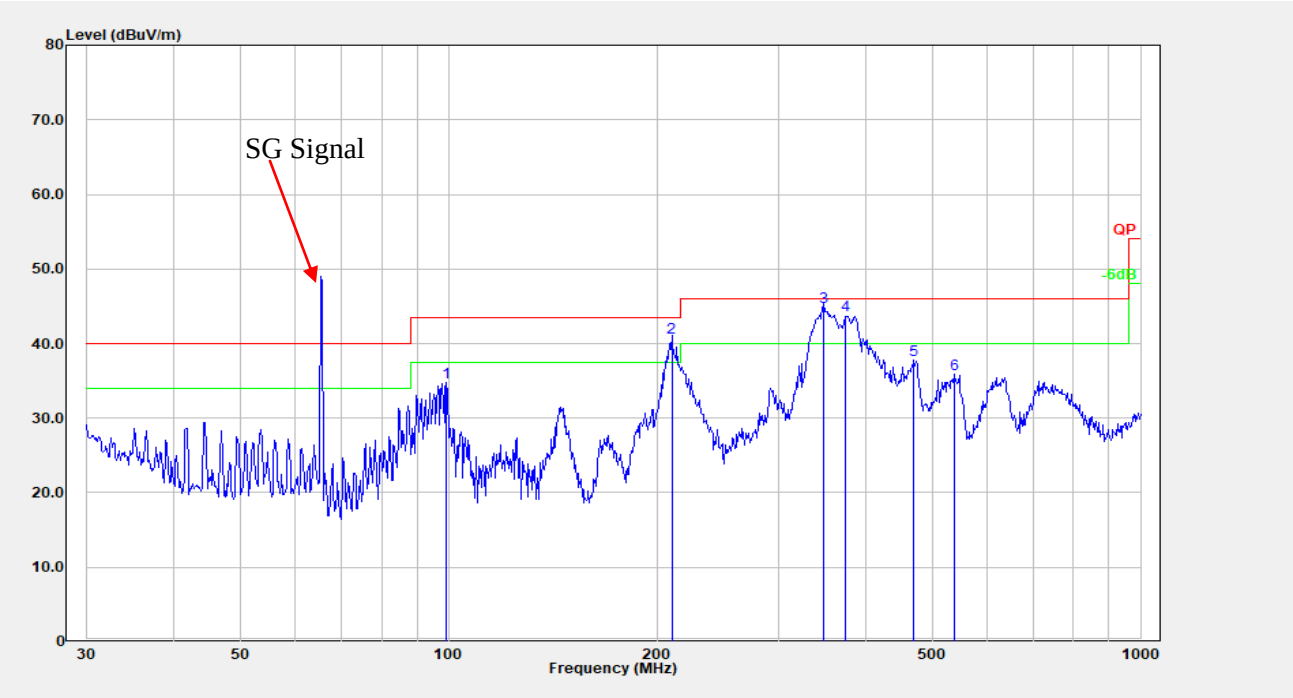
FM Broadcast Receiving(65.1MHz):

Horizontal:



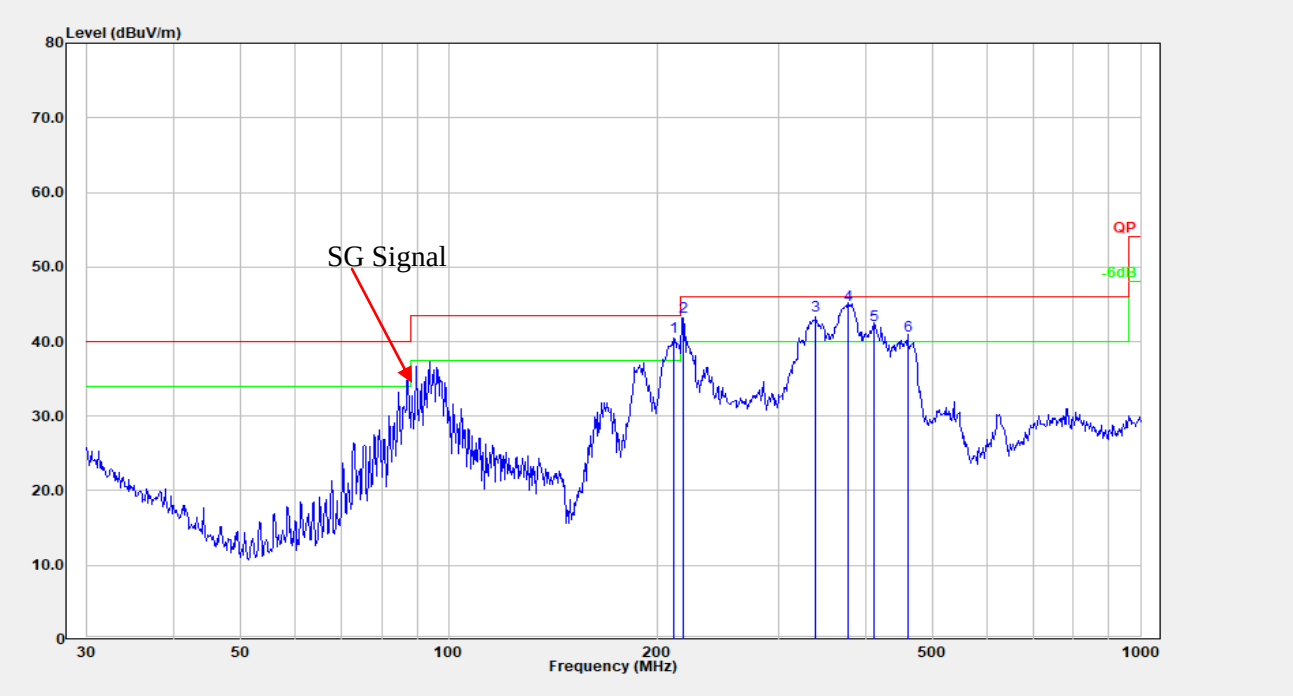
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	99.528	52.47	-14.69	37.78	43.50	5.72	QP
2	167.824	47.49	-12.96	34.53	43.50	8.97	Peak
3	188.413	52.16	-13.66	38.50	43.50	5.00	QP
4	210.786	54.93	-12.63	42.30	43.50	1.20	QP
5	217.544	55.35	-12.88	42.47	46.00	3.53	QP
6	361.714	54.99	-10.00	44.99	46.00	1.01	QP

Vertical:



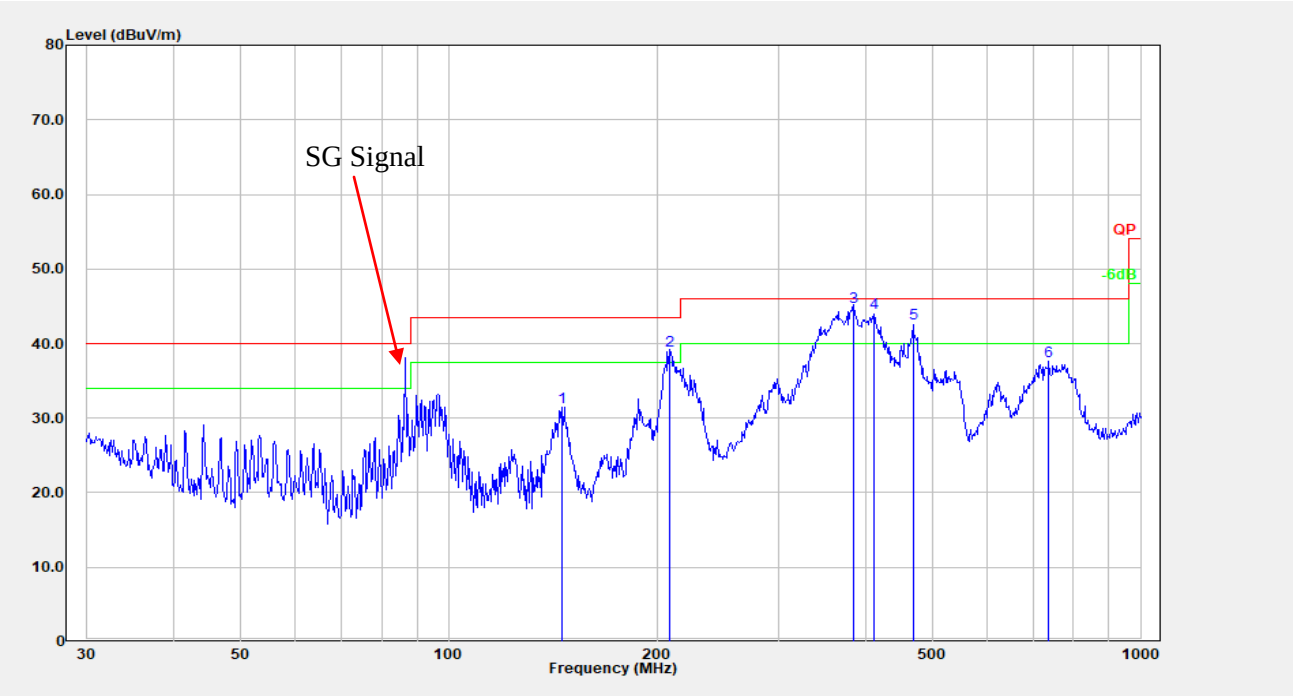
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	99.180	49.52	-14.77	34.75	43.50	8.75	Peak
2	210.048	53.36	-12.60	40.76	43.50	2.74	QP
3	348.027	55.10	-10.24	44.86	46.00	1.14	QP
4	374.623	53.35	-9.54	43.81	46.00	2.19	QP
5	470.523	44.34	-6.58	37.76	46.00	8.24	Peak
6	537.589	42.14	-6.22	35.92	46.00	10.08	Peak

FM Broadcast Receiving(86.5MHz):
Horizontal:



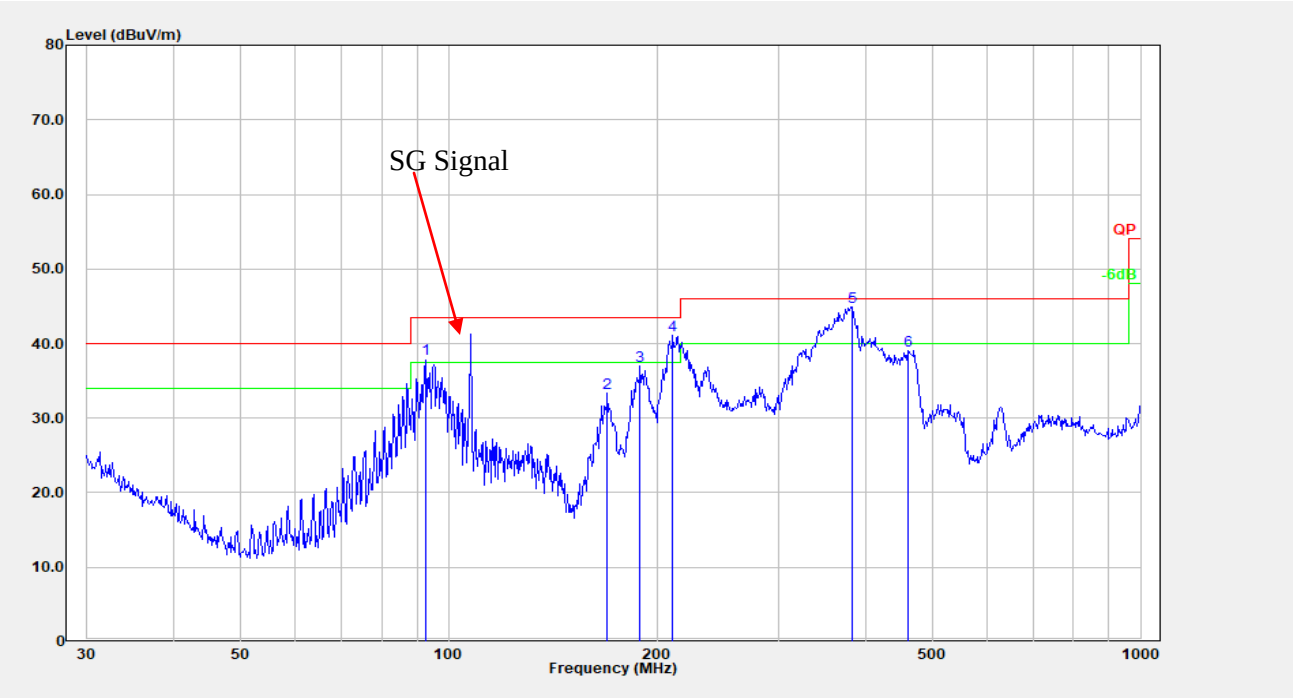
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	211.527	53.36	-12.66	40.70	43.50	2.80	QP
2	218.309	56.16	-12.91	43.25	46.00	2.75	QP
3	338.400	53.67	-10.27	43.40	46.00	2.60	QP
4	377.259	54.41	-9.43	44.98	46.00	1.02	QP
5	411.824	50.76	-8.52	42.24	46.00	3.76	QP
6	460.727	47.64	-6.92	40.72	46.00	5.28	QP

Vertical:



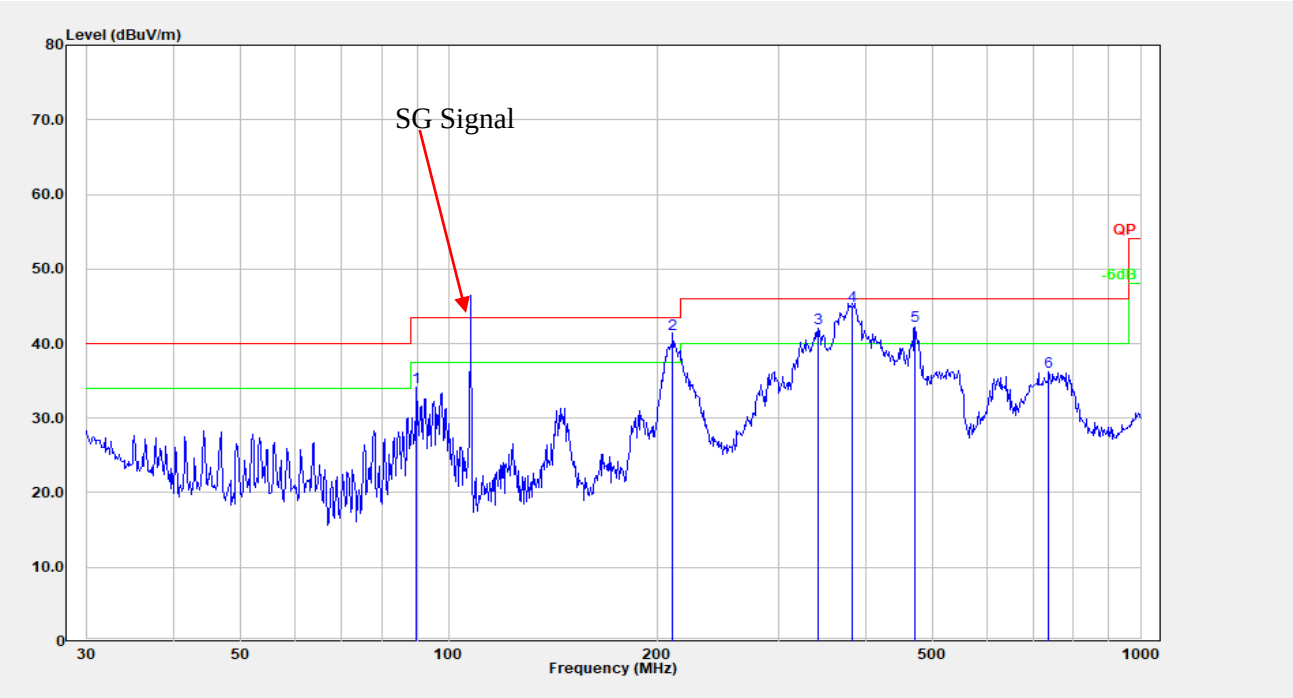
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	145.861	43.72	-12.22	31.50	43.50	12.00	Peak
2	208.580	51.60	-12.58	39.02	43.50	4.48	QP
3	385.281	54.10	-9.23	44.87	46.00	1.13	QP
4	411.824	52.65	-8.52	44.13	46.00	1.87	QP
5	468.876	49.35	-6.62	42.73	46.00	3.27	QP
6	737.071	40.75	-3.16	37.59	46.00	8.41	Peak

FM Broadcast Receiving(107.9MHz):
Horizontal:



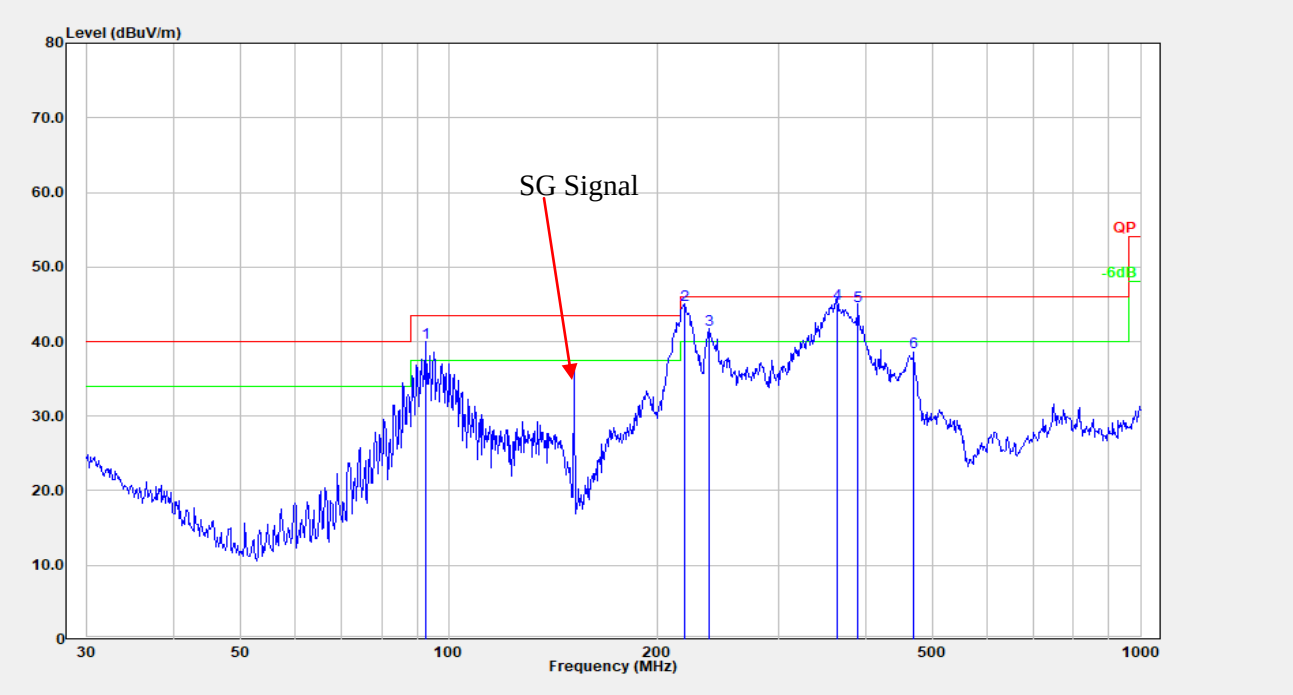
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	92.787	54.33	-16.46	37.87	43.50	5.63	QP
2	169.599	46.46	-13.15	33.31	43.50	10.19	Peak
3	189.074	50.66	-13.64	37.02	43.50	6.48	Peak
4	210.786	53.66	-12.63	41.03	43.50	2.47	QP
5	382.588	54.23	-9.28	44.95	46.00	1.05	QP
6	460.727	46.00	-6.92	39.08	46.00	6.92	Peak

Vertical:



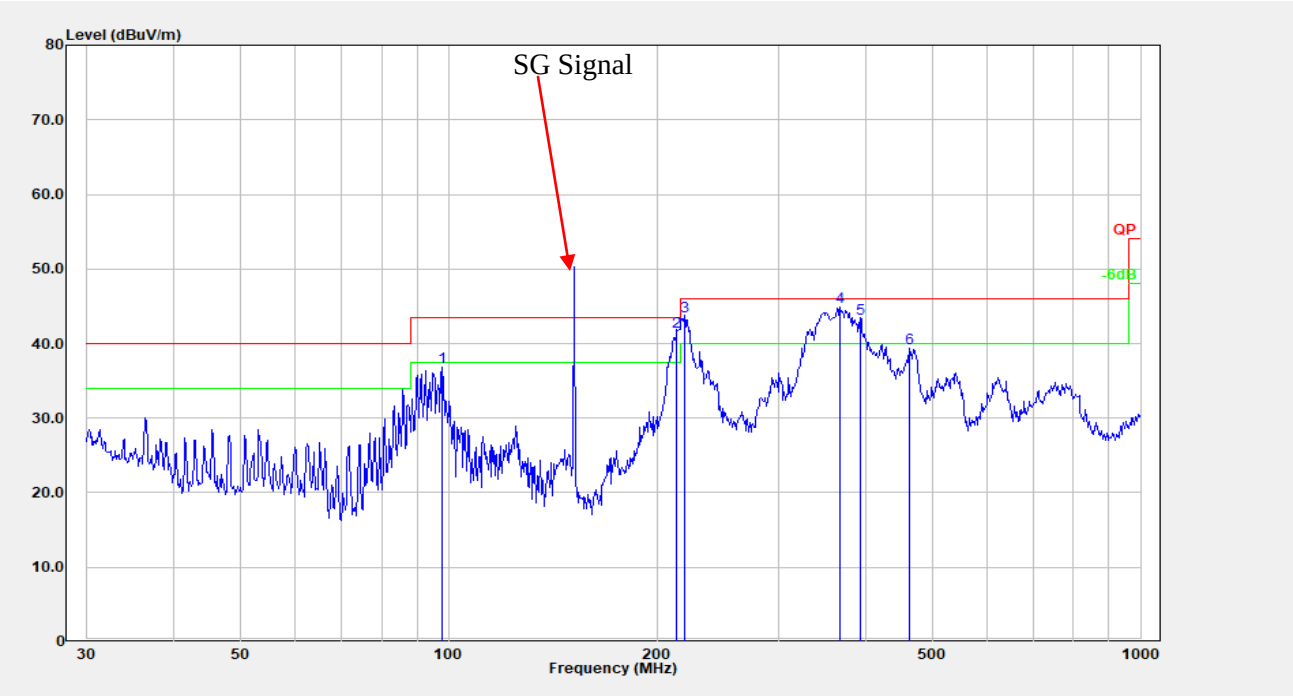
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	89.905	51.38	-17.19	34.19	43.50	9.31	Peak
2	210.786	53.93	-12.63	41.30	43.50	2.20	QP
3	341.979	52.34	-10.24	42.10	46.00	3.90	QP
4	382.588	54.32	-9.28	45.04	46.00	0.96	QP
5	472.176	48.98	-6.56	42.42	46.00	3.58	QP
6	737.071	39.36	-3.16	36.20	46.00	9.80	Peak

MURS Receiving(151.82MHz):
Horizontal:



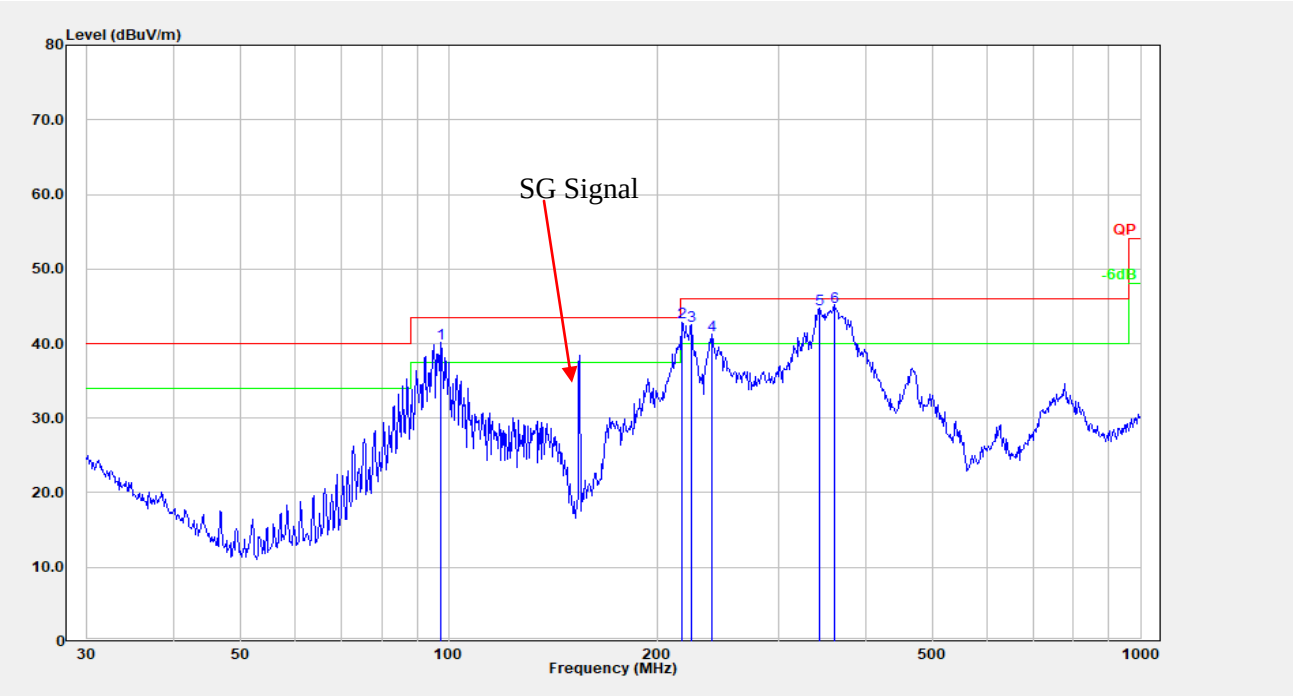
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	92.787	56.33	-16.46	39.87	43.50	3.63	QP
2	219.075	57.88	-12.93	44.95	46.00	1.05	QP
3	237.476	54.84	-13.21	41.63	46.00	4.37	QP
4	364.260	54.92	-9.91	45.01	46.00	0.99	QP
5	390.723	53.93	-9.14	44.79	46.00	1.21	QP
6	470.523	45.18	-6.58	38.60	46.00	7.40	Peak

Vertical:



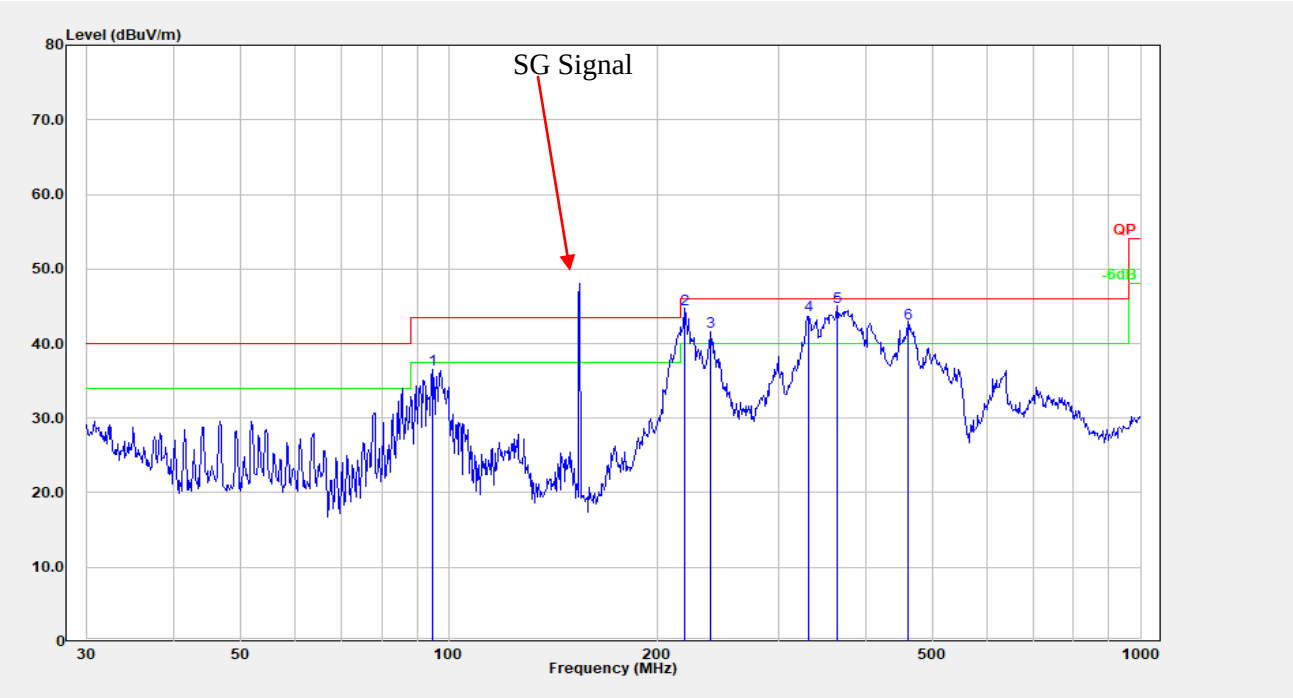
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	97.798	51.90	-15.11	36.79	43.50	6.71	Peak
2	213.763	54.34	-12.75	41.59	43.50	1.91	QP
3	219.075	56.62	-12.93	43.69	46.00	2.31	QP
4	368.112	54.63	-9.80	44.83	46.00	1.17	QP
5	393.472	52.36	-9.09	43.27	46.00	2.73	QP
6	463.970	46.05	-6.76	39.29	46.00	6.71	Peak

MURS Receiving(154.6MHz):
Horizontal:



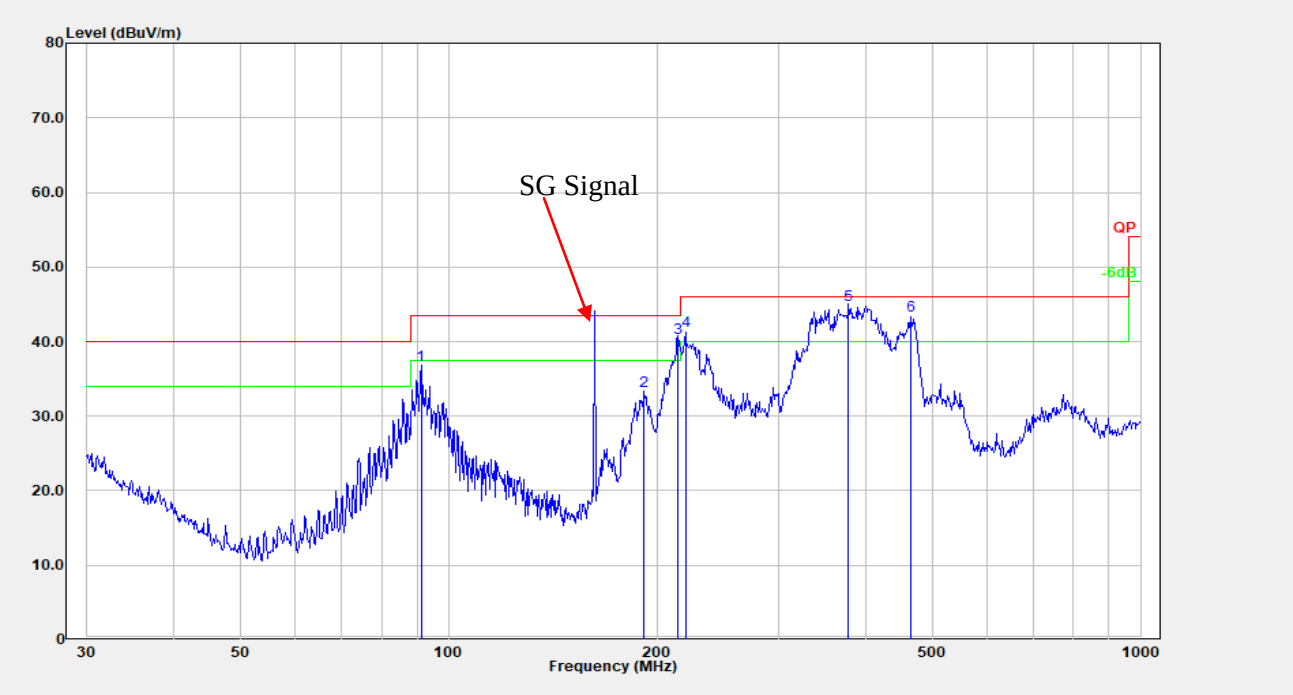
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	97.456	55.21	-15.21	40.00	43.50	3.50	QP
2	217.544	55.74	-12.88	42.86	46.00	3.14	QP
3	224.519	55.40	-13.03	42.37	46.00	3.63	QP
4	239.987	54.34	-13.17	41.17	46.00	4.83	QP
5	343.180	54.87	-10.24	44.63	46.00	1.37	QP
6	360.448	54.96	-10.04	44.92	46.00	1.08	QP

Vertical:



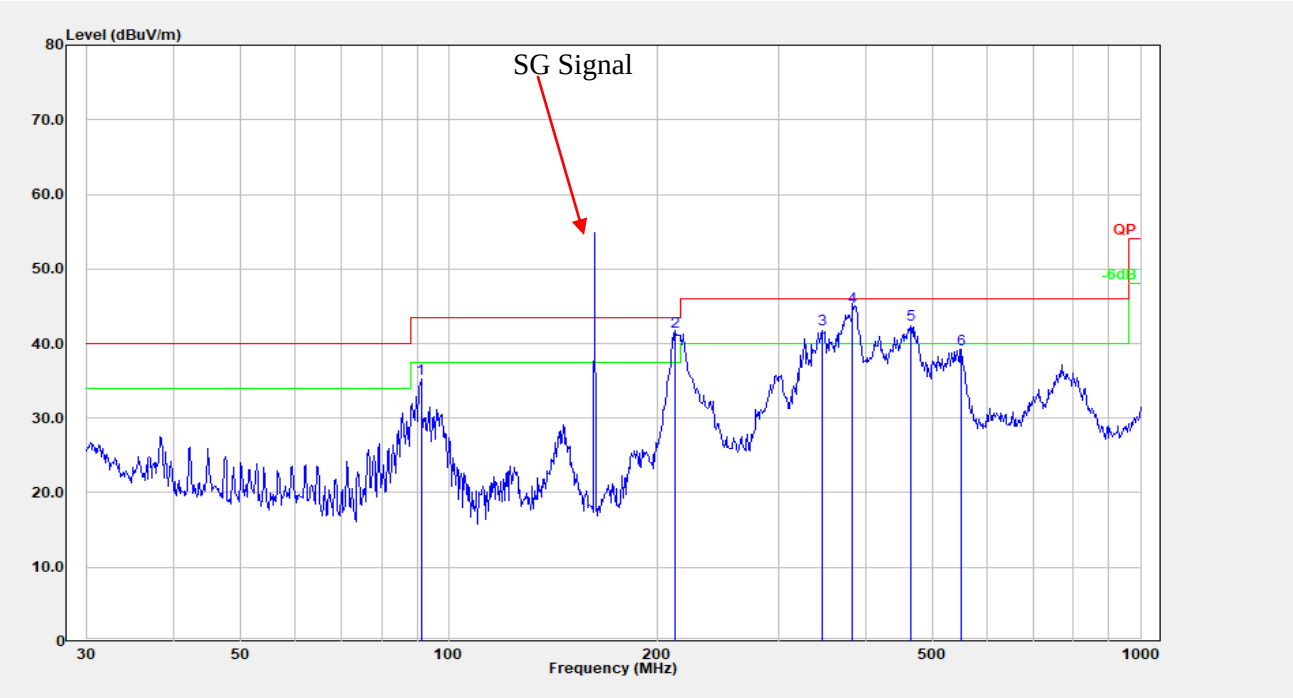
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	94.760	52.43	-15.93	36.50	43.50	7.00	Peak
2	219.075	57.54	-12.93	44.61	46.00	1.39	QP
3	239.147	54.71	-13.18	41.53	46.00	4.47	QP
4	331.355	54.22	-10.39	43.83	46.00	2.17	QP
5	364.260	54.89	-9.91	44.98	46.00	1.02	QP
6	460.727	49.63	-6.92	42.71	46.00	3.29	QP

NOAA Receiving(162.40MHz):
Horizontal:



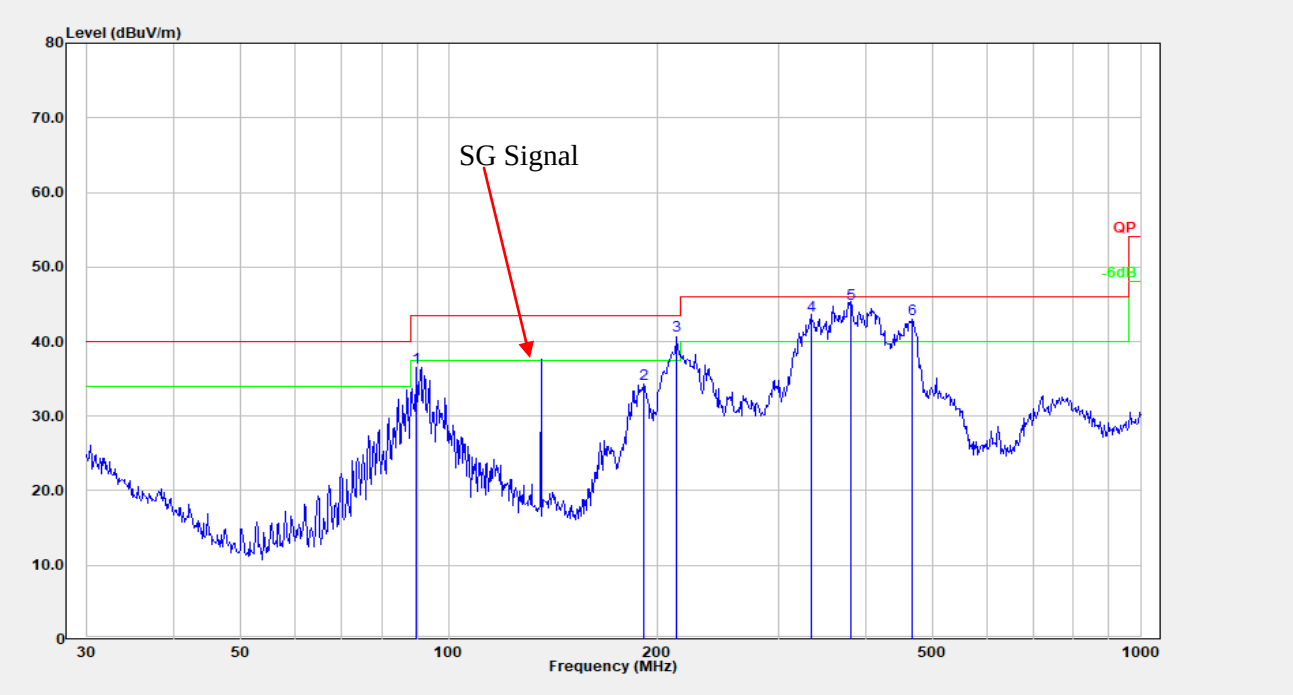
No.	Frequency	Reading	Factor	Result	Limit	Margin	Detector
	(MHz)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)	(dB)	
1	91.175	53.78	-16.89	36.89	43.50	6.61	Peak
2	191.745	46.68	-13.38	33.30	43.50	10.20	Peak
3	214.514	53.33	-12.78	40.55	43.50	2.95	QP
4	219.845	54.32	-12.96	41.36	46.00	4.64	QP
5	378.584	54.21	-9.38	44.83	46.00	1.17	QP
6	465.599	50.17	-6.70	43.47	46.00	2.53	QP

Vertical:



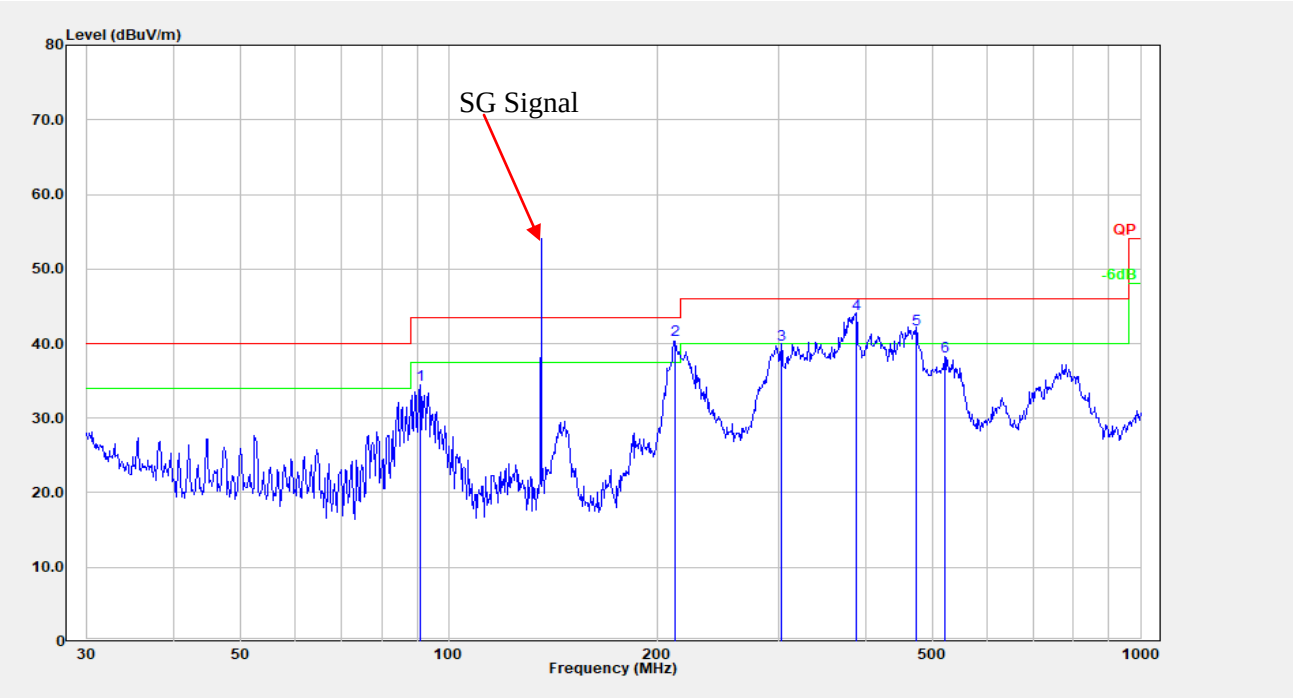
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	91.175	52.16	-16.89	35.27	43.50	8.23	Peak
2	212.270	54.33	-12.69	41.64	43.50	1.86	QP
3	346.809	52.12	-10.25	41.87	46.00	4.13	QP
4	383.932	54.23	-9.26	44.97	46.00	1.03	QP
5	465.599	49.23	-6.70	42.53	46.00	3.47	QP
6	550.948	45.15	-5.98	39.17	46.00	6.83	Peak

VHF Receiving(136.0125MHz):
Horizontal:



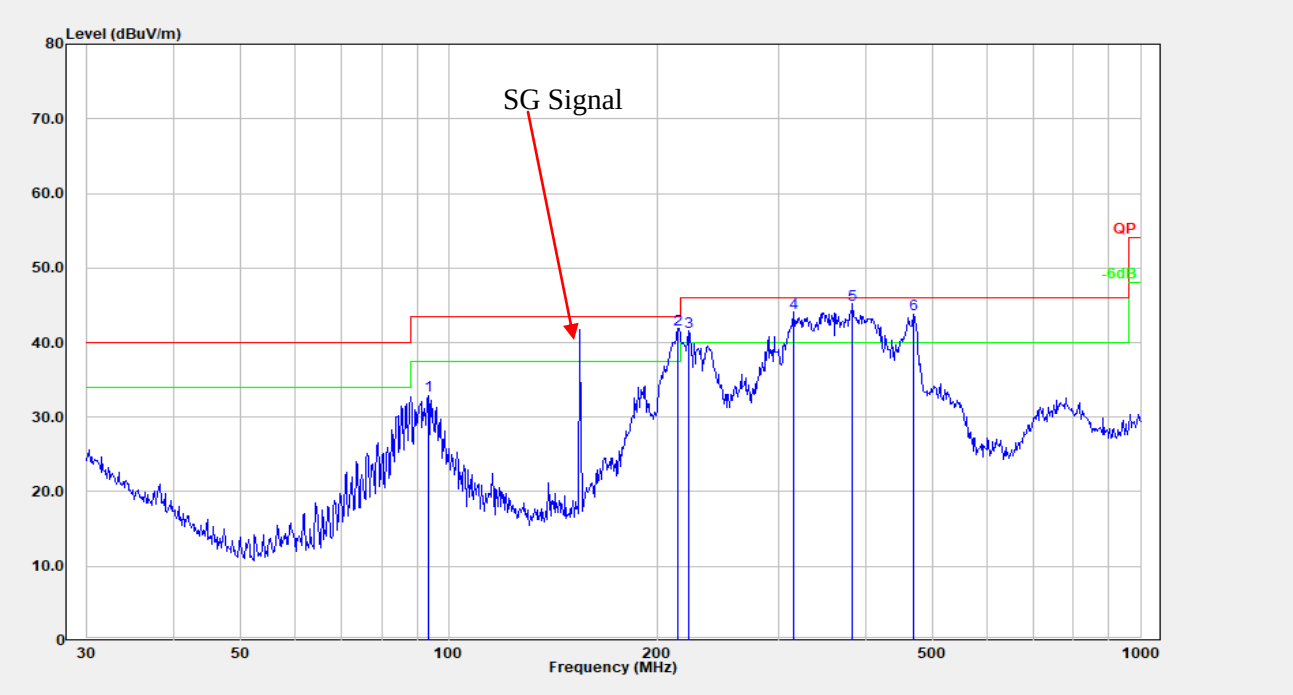
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	89.905	53.70	-17.19	36.51	43.50	6.99	Peak
2	191.745	47.75	-13.38	34.37	43.50	9.13	Peak
3	213.015	53.50	-12.72	40.78	43.50	2.72	QP
4	333.687	53.76	-10.36	43.40	46.00	2.60	QP
5	381.249	54.32	-9.31	45.01	46.00	0.99	QP
6	467.235	49.63	-6.66	42.97	46.00	3.03	QP

Vertical:



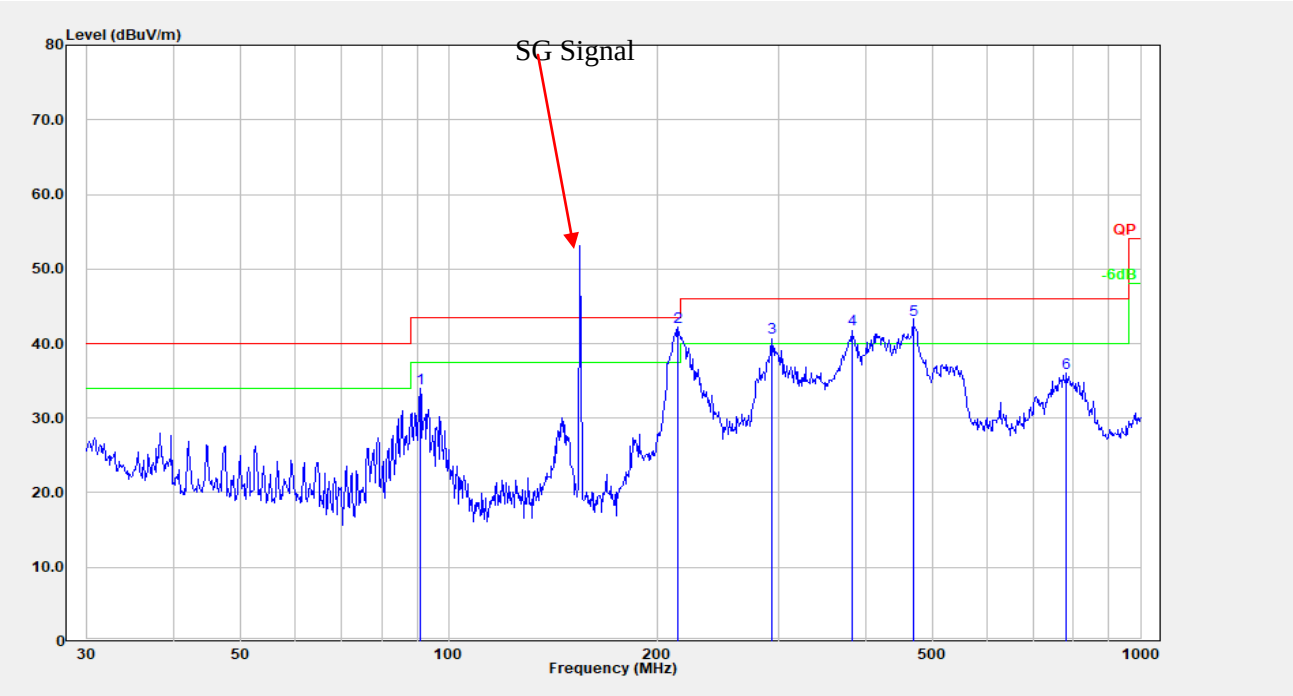
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	90.855	51.38	-16.97	34.41	43.50	9.09	Peak
2	212.270	53.13	-12.69	40.44	43.50	3.06	QP
3	302.481	50.67	-10.80	39.87	46.00	6.13	QP
4	387.992	53.14	-9.19	43.95	46.00	2.05	QP
5	473.835	48.41	-6.54	41.87	46.00	4.13	QP
6	520.888	44.26	-6.07	38.19	46.00	7.81	Peak

VHF Receiving (150MHz):
Horizontal:



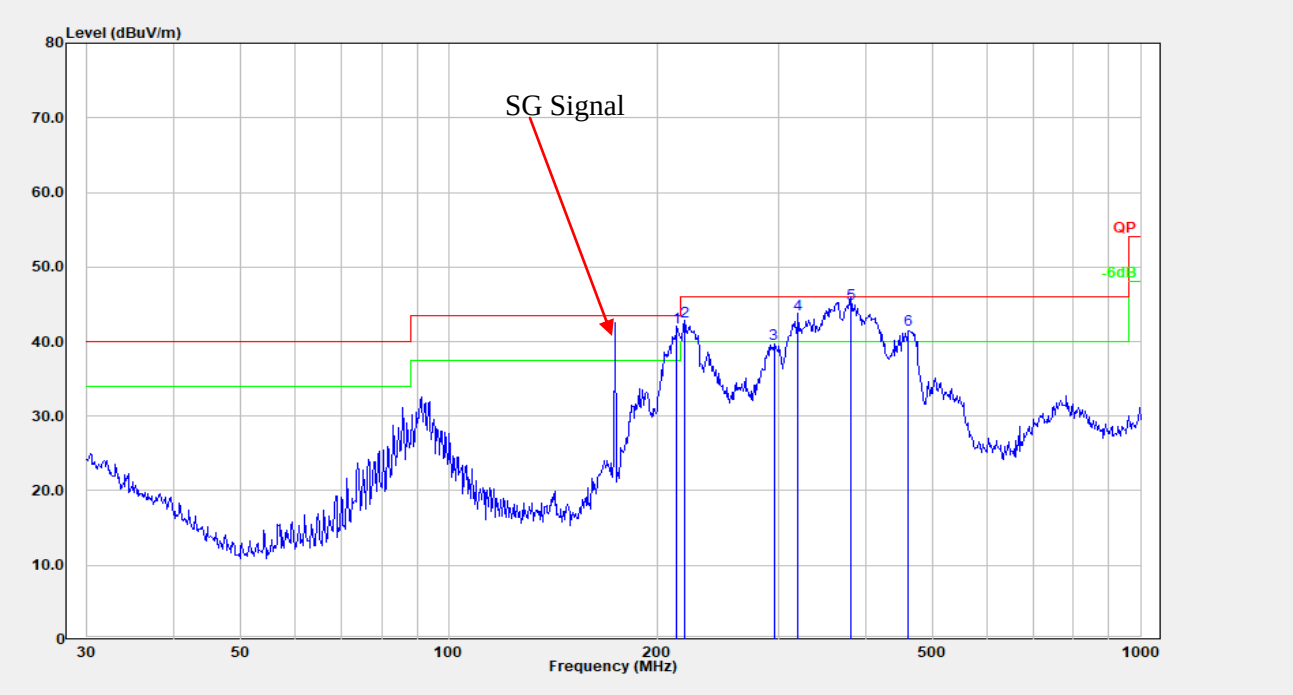
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	93.440	49.11	-16.30	32.81	43.50	10.69	Peak
2	214.514	54.45	-12.78	41.67	43.50	1.83	QP
3	222.170	54.38	-12.99	41.39	46.00	4.61	QP
4	315.481	54.78	-10.82	43.96	46.00	2.04	QP
5	383.932	54.30	-9.26	45.04	46.00	0.96	QP
6	468.876	50.38	-6.62	43.76	46.00	2.24	QP

Vertical:



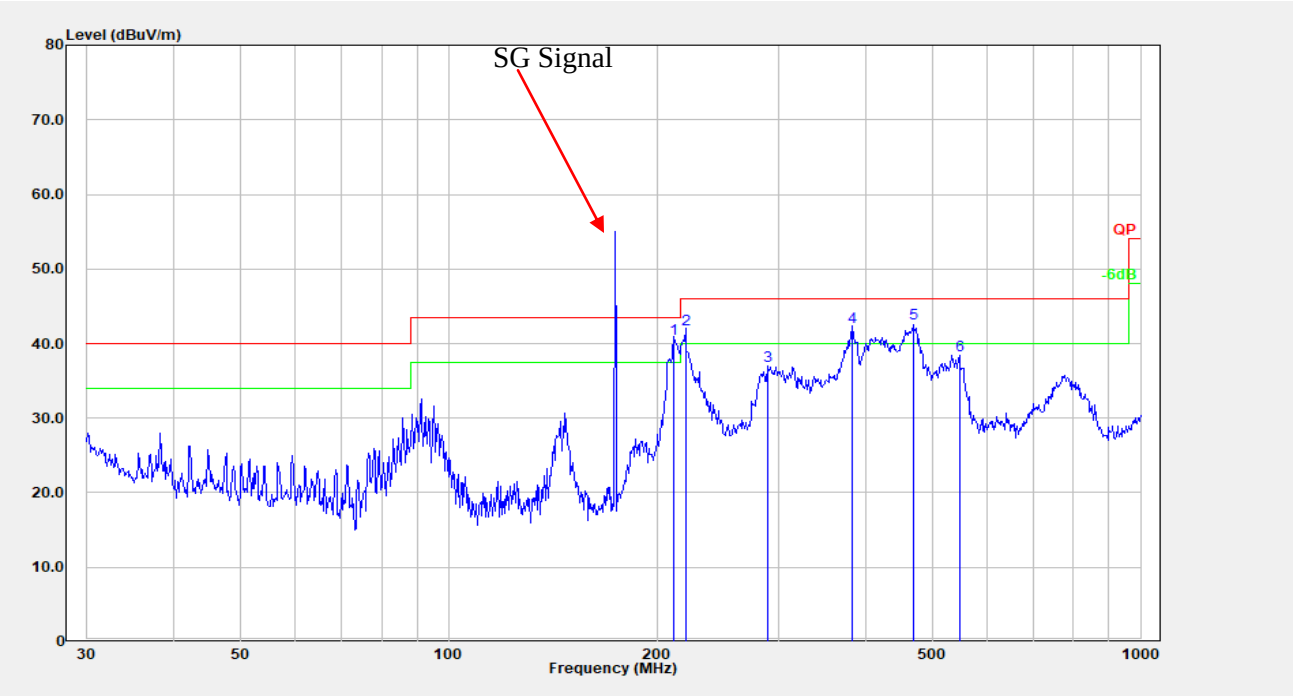
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	90.855	50.92	-16.97	33.95	43.50	9.55	Peak
2	214.514	55.01	-12.78	42.23	43.50	1.27	QP
3	293.084	51.81	-11.04	40.77	46.00	5.23	QP
4	382.588	51.12	-9.28	41.84	46.00	4.16	QP
5	468.876	49.84	-6.62	43.22	46.00	2.78	QP
6	782.345	38.62	-2.52	36.10	46.00	9.90	Peak

VHF Receiving(173.9875MHz):
Horizontal:



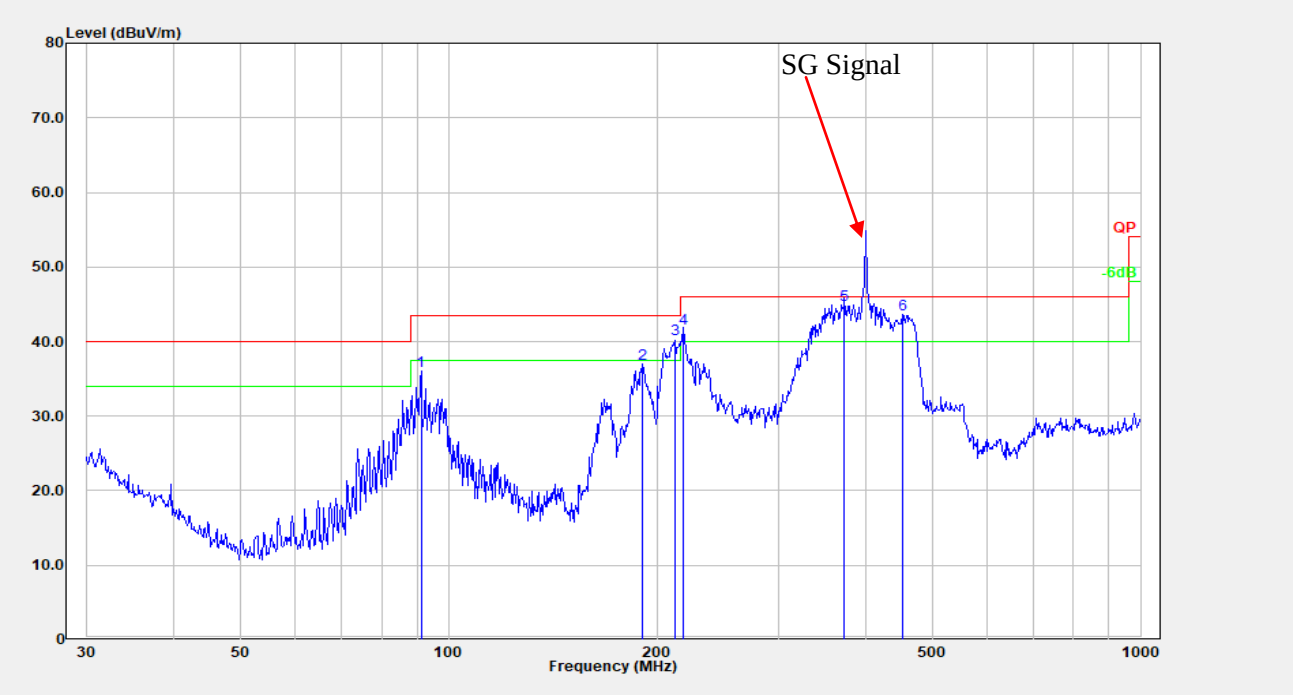
No.	Frequency	Reading	Factor	Result	Limit	Margin	Detector
	(MHz)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)	(dB)	
1	213.763	54.72	-12.75	41.97	43.50	1.53	QP
2	219.075	55.60	-12.93	42.67	46.00	3.33	QP
3	295.147	50.58	-10.94	39.64	46.00	6.36	Peak
4	319.937	54.42	-10.76	43.66	46.00	2.34	QP
5	381.249	54.30	-9.31	44.99	46.00	1.01	QP
6	462.346	48.36	-6.84	41.52	46.00	4.48	QP

Vertical:



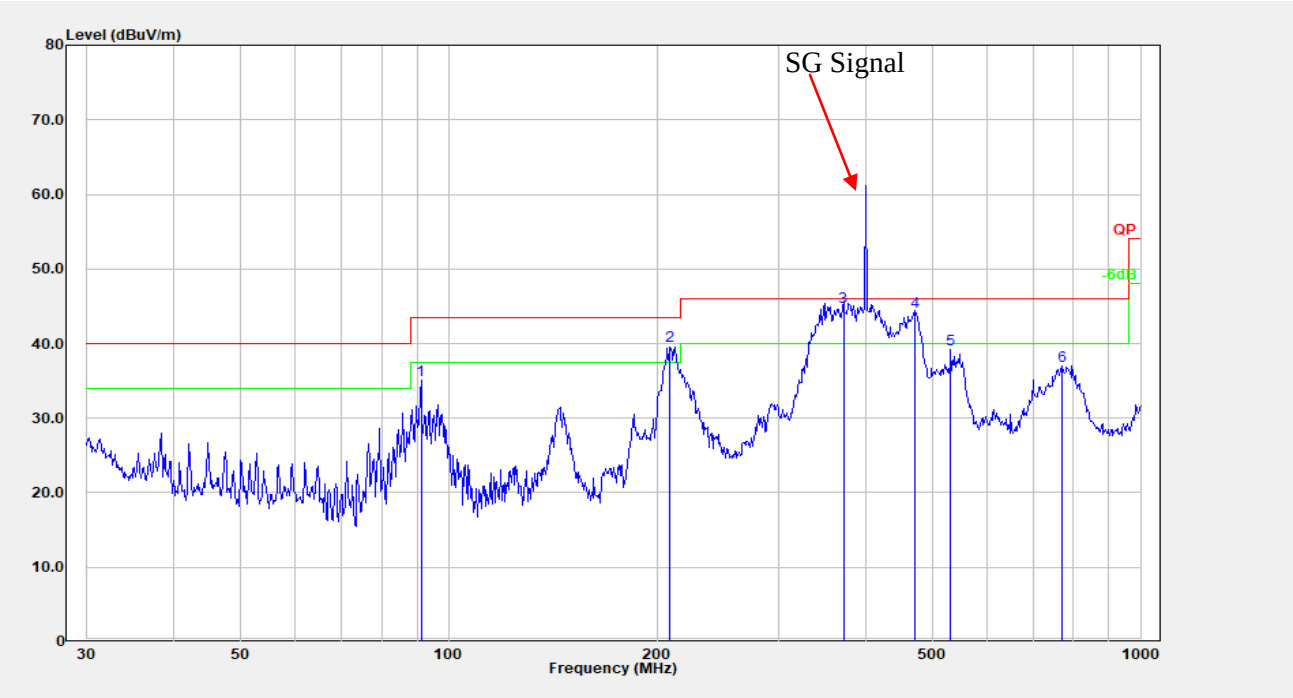
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	211.527	53.37	-12.66	40.71	43.50	2.79	QP
2	219.845	54.78	-12.96	41.82	46.00	4.18	QP
3	289.002	48.22	-11.28	36.94	46.00	9.06	Peak
4	383.932	51.41	-9.26	42.15	46.00	3.85	QP
5	468.876	49.23	-6.62	42.61	46.00	3.39	QP
6	547.098	44.47	-6.06	38.41	46.00	7.59	Peak

UHF Receiving (400.0125MHz):
Horizontal:



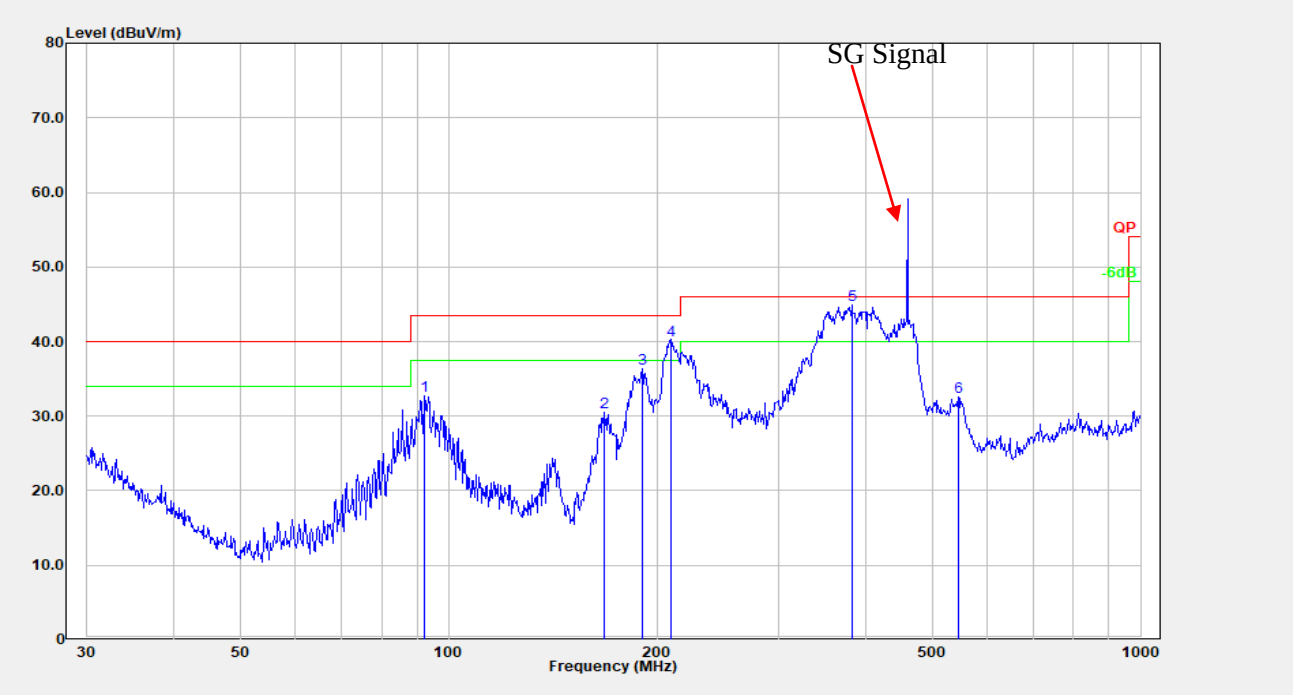
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	91.175	52.97	-16.89	36.08	43.50	7.42	Peak
2	190.405	50.52	-13.58	36.94	43.50	6.56	Peak
3	212.270	52.99	-12.69	40.30	43.50	3.20	QP
4	218.309	54.65	-12.91	41.74	46.00	4.26	QP
5	373.311	54.56	-9.60	44.96	46.00	1.04	QP
6	452.720	50.72	-7.08	43.64	46.00	2.36	QP

Vertical:



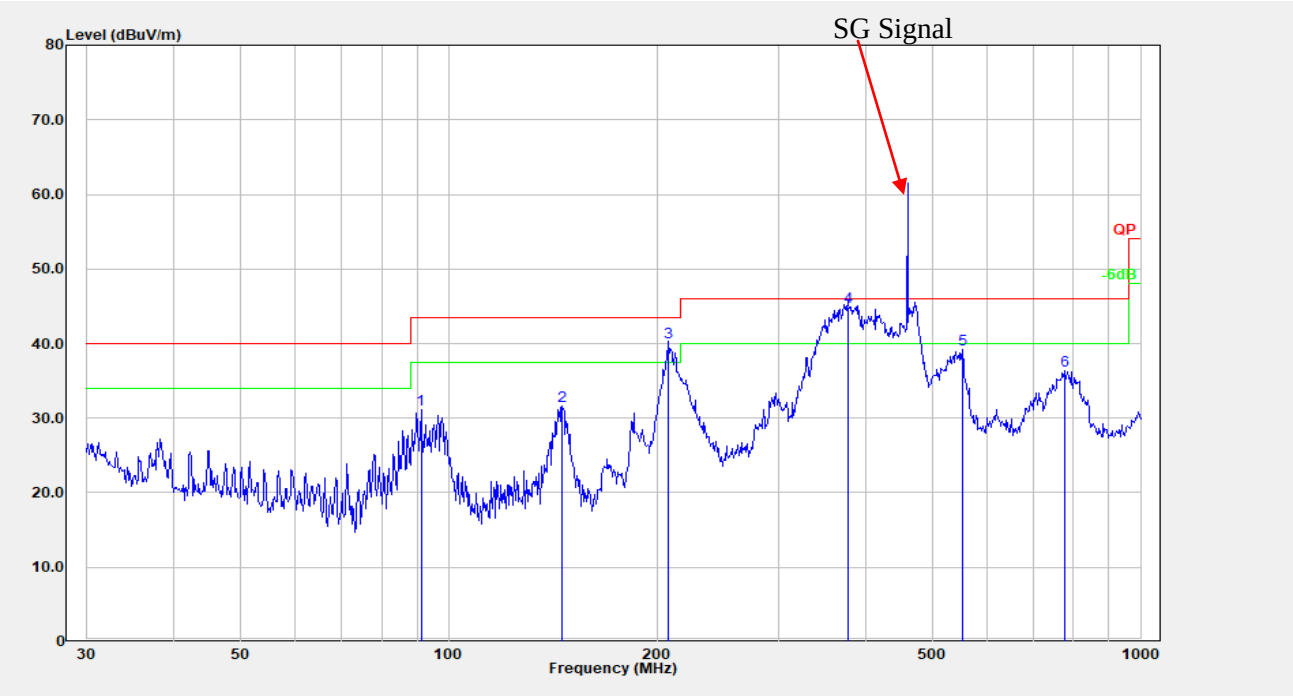
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	91.175	51.93	-16.89	35.04	43.50	8.46	Peak
2	208.580	52.23	-12.58	39.65	43.50	3.85	QP
3	372.005	54.62	-9.66	44.96	46.00	1.04	QP
4	472.176	50.77	-6.56	44.21	46.00	1.79	QP
5	531.964	45.41	-6.22	39.19	46.00	6.81	Peak
6	771.449	39.82	-2.78	37.04	46.00	8.96	Peak

UHF Receiving (460MHz):
Horizontal:



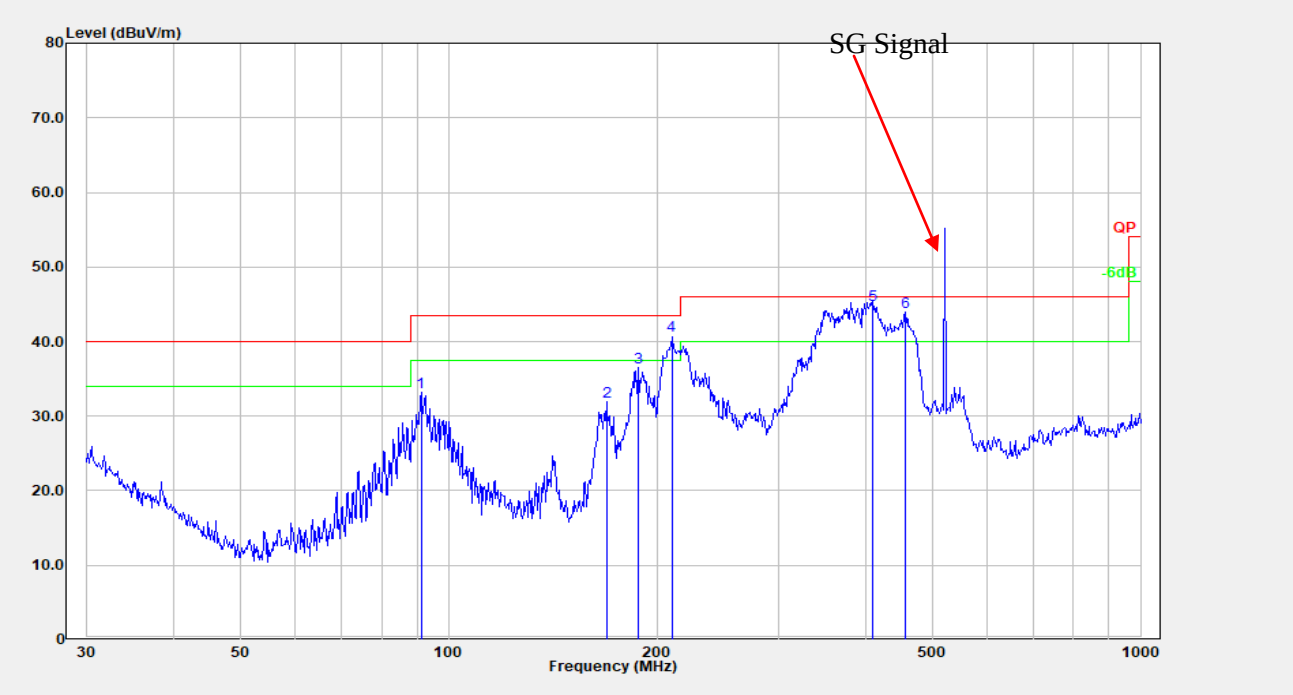
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	92.139	49.42	-16.66	32.76	43.50	10.74	Peak
2	167.824	43.45	-12.96	30.49	43.50	13.01	Peak
3	190.405	49.91	-13.58	36.33	43.50	7.17	Peak
4	209.313	52.77	-12.59	40.18	43.50	3.32	QP
5	382.588	54.21	-9.28	44.93	46.00	1.07	QP
6	545.183	38.73	-6.11	32.62	46.00	13.38	Peak

Vertical:



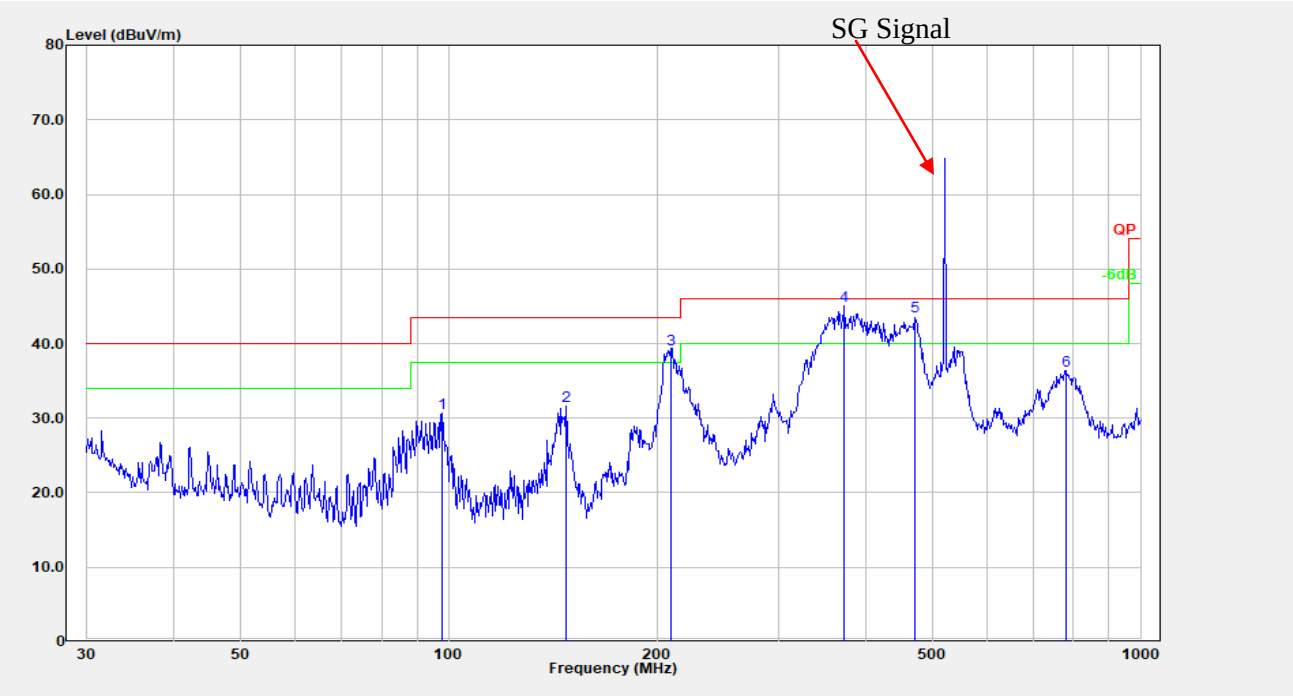
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	91.175	48.07	-16.89	31.18	43.50	12.32	Peak
2	145.861	43.80	-12.22	31.58	43.50	11.92	Peak
3	207.850	52.76	-12.57	40.19	43.50	3.31	QP
4	377.259	54.36	-9.43	44.93	46.00	1.07	QP
5	552.883	45.22	-5.95	39.27	46.00	6.73	Peak
6	776.878	39.04	-2.61	36.43	46.00	9.57	Peak

UHF Receiving (519.9875MHz):
Horizontal:



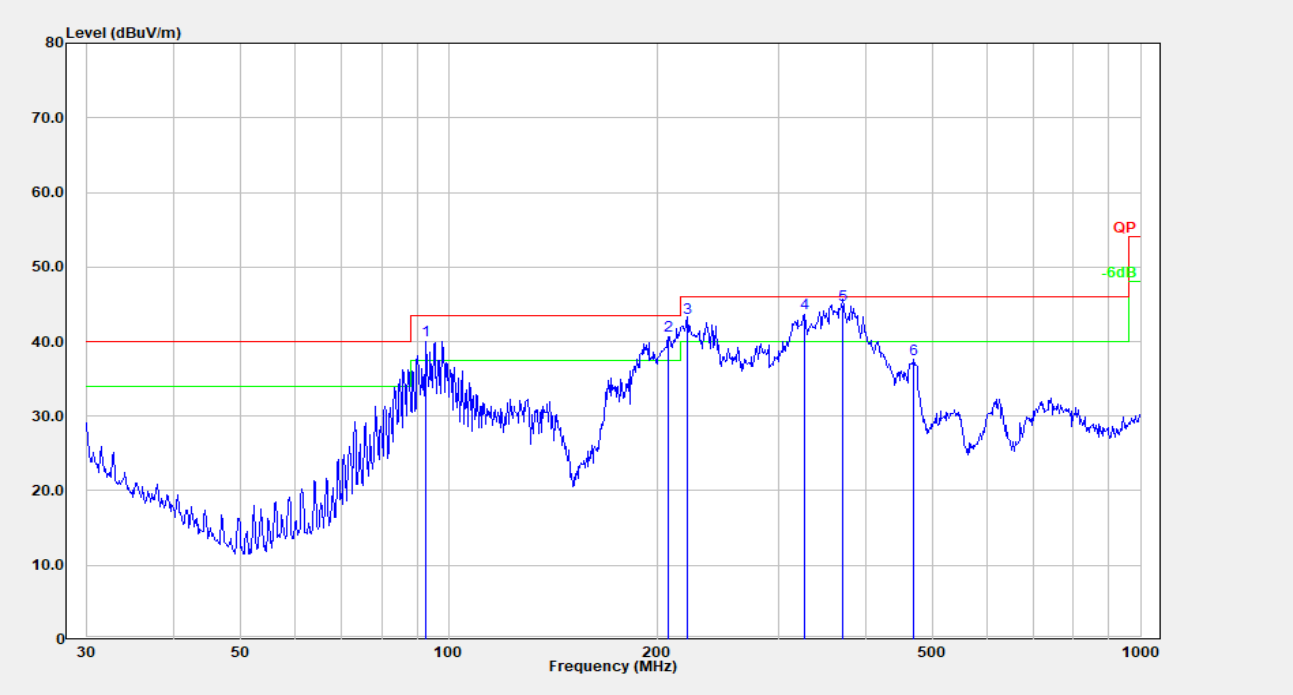
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	91.175	50.04	-16.89	33.15	43.50	10.35	Peak
2	169.005	45.02	-13.10	31.92	43.50	11.58	Peak
3	187.753	50.24	-13.69	36.55	43.50	6.95	Peak
4	210.048	53.39	-12.60	40.79	43.50	2.71	QP
5	410.383	53.55	-8.58	44.97	46.00	1.03	QP
6	457.507	51.01	-6.98	44.03	46.00	1.97	QP

Vertical:



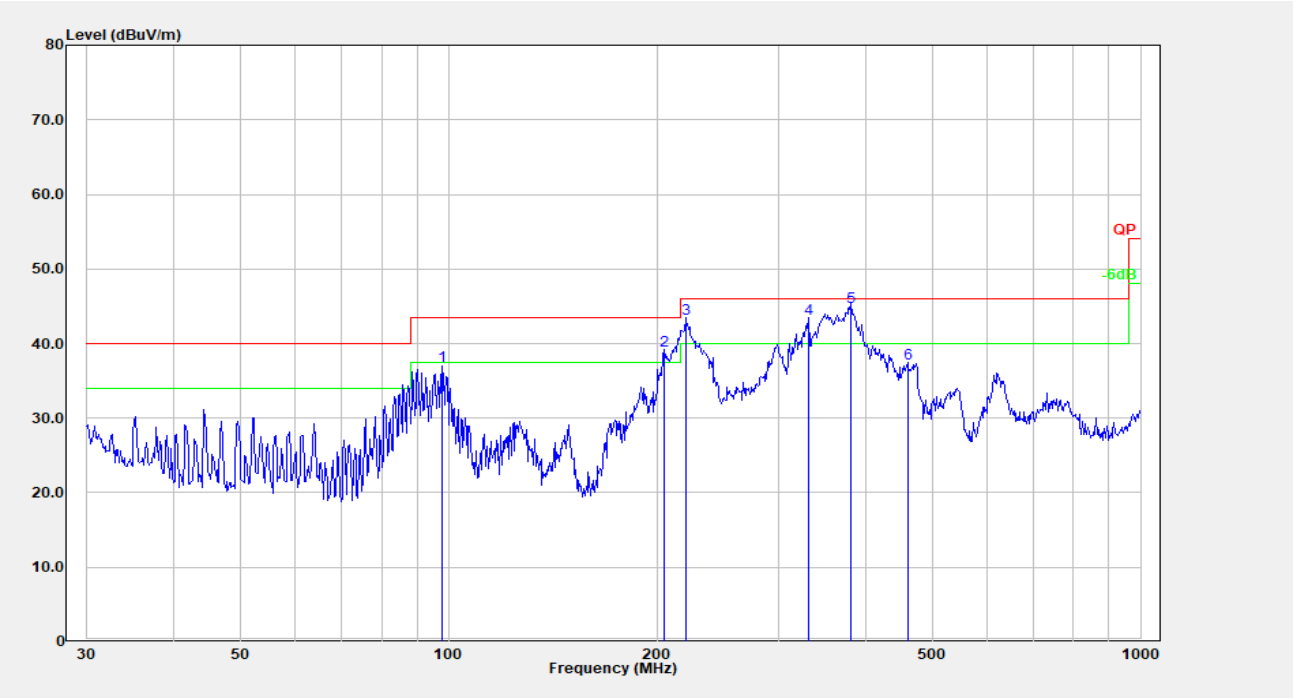
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	97.798	45.71	-15.11	30.60	43.50	12.90	Peak
2	147.921	43.92	-12.24	31.68	43.50	11.82	Peak
3	209.313	51.77	-12.59	39.18	43.50	4.32	QP
4	373.311	54.59	-9.60	44.99	46.00	1.01	QP
5	472.176	50.21	-6.56	43.65	46.00	2.35	QP
6	782.345	38.93	-2.52	36.41	46.00	9.59	Peak

VHF Scanning(136~174MHz):
Horizontal:



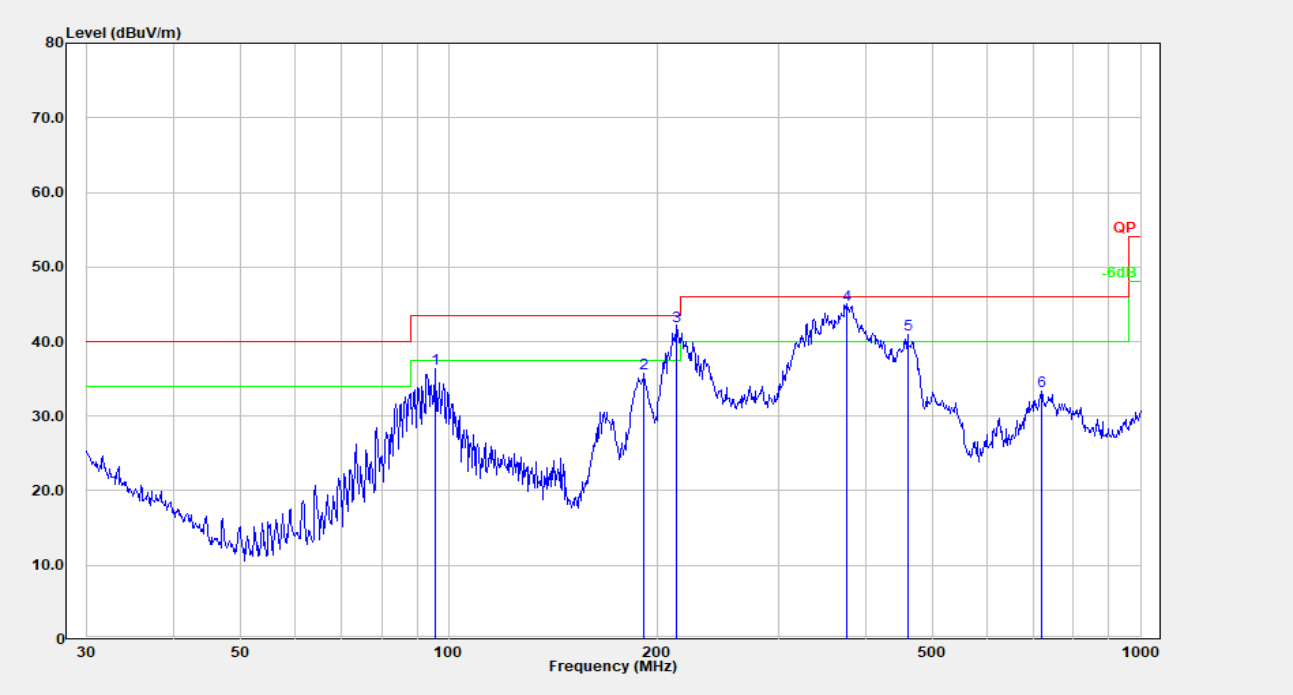
No.	Frequency	Reading	Factor	Result	Limit	Margin	Detector
	(MHz)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)	(dB)	
1	92.787	56.62	-16.46	40.16	43.50	3.34	QP
2	207.850	53.40	-12.57	40.83	43.50	2.67	QP
3	221.392	56.10	-12.98	43.12	46.00	2.88	QP
4	326.740	54.35	-10.54	43.81	46.00	2.19	QP
5	370.702	54.60	-9.72	44.88	46.00	1.12	QP
6	470.523	44.22	-6.58	37.64	46.00	8.36	Peak

Vertical:



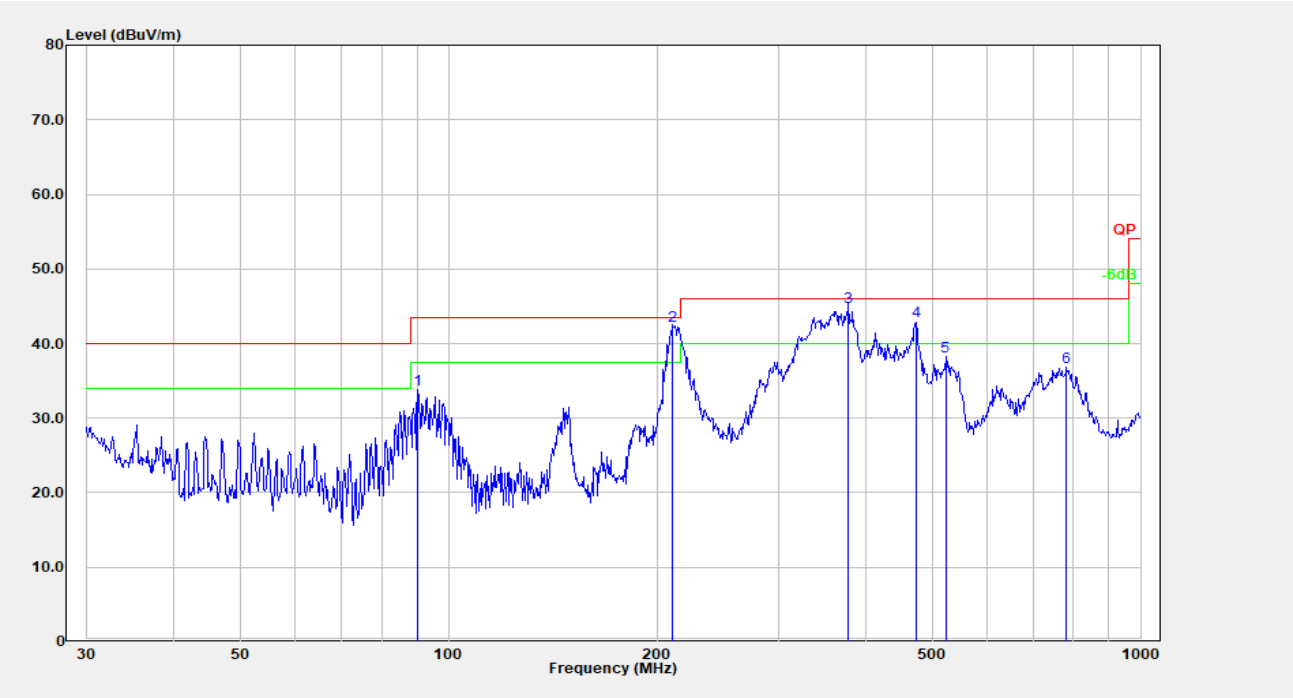
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	97.798	52.06	-15.11	36.95	43.50	6.55	Peak
2	204.955	51.63	-12.53	39.10	43.50	4.40	QP
3	219.845	56.35	-12.96	43.39	46.00	2.61	QP
4	331.355	53.69	-10.39	43.30	46.00	2.70	QP
5	381.249	54.27	-9.31	44.96	46.00	1.04	QP
6	460.727	44.31	-6.92	37.39	46.00	8.61	Peak

UHF Scanning (400~520MHz):
Horizontal:



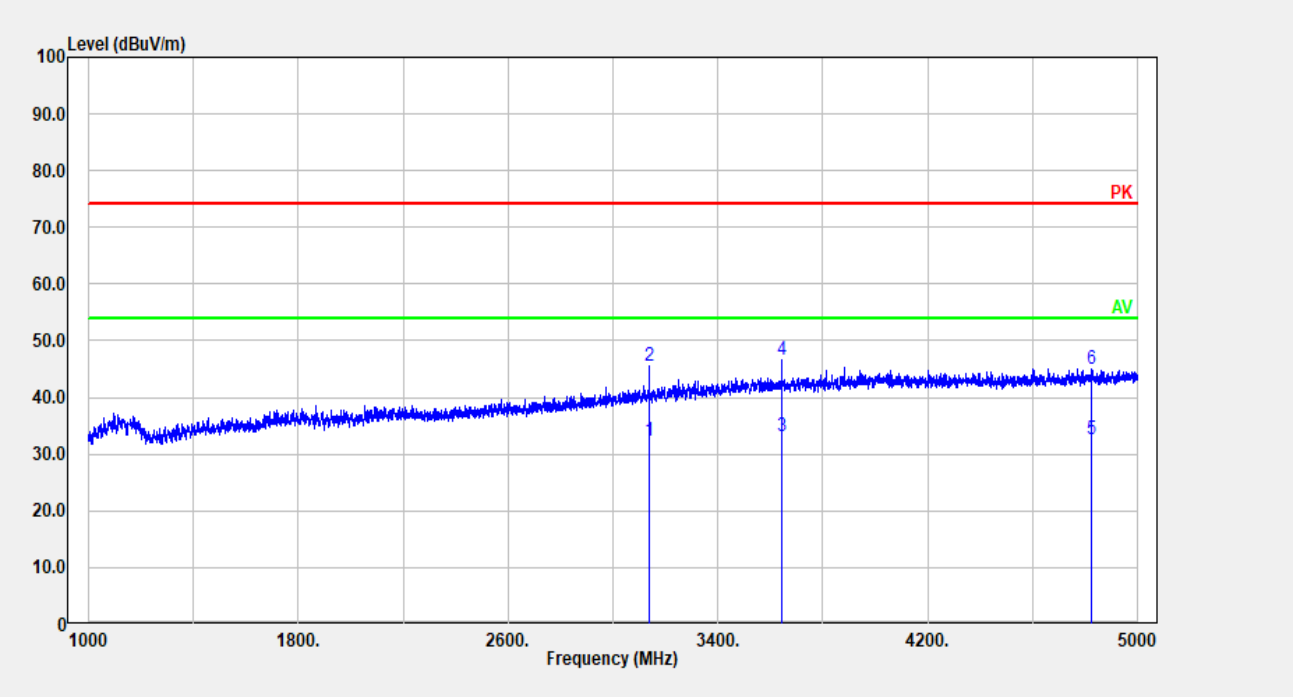
No.	Frequency	Reading	Factor	Result	Limit	Margin	Detector
	(MHz)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)	(dB)	
1	95.762	52.00	-15.65	36.35	43.50	7.15	Peak
2	191.745	49.06	-13.38	35.68	43.50	7.82	Peak
3	213.763	54.76	-12.75	42.01	43.50	1.49	QP
4	375.939	54.45	-9.48	44.97	46.00	1.03	QP
5	460.727	47.93	-6.92	41.01	46.00	4.99	QP
6	719.200	36.88	-3.57	33.31	46.00	12.69	Peak

Vertical:



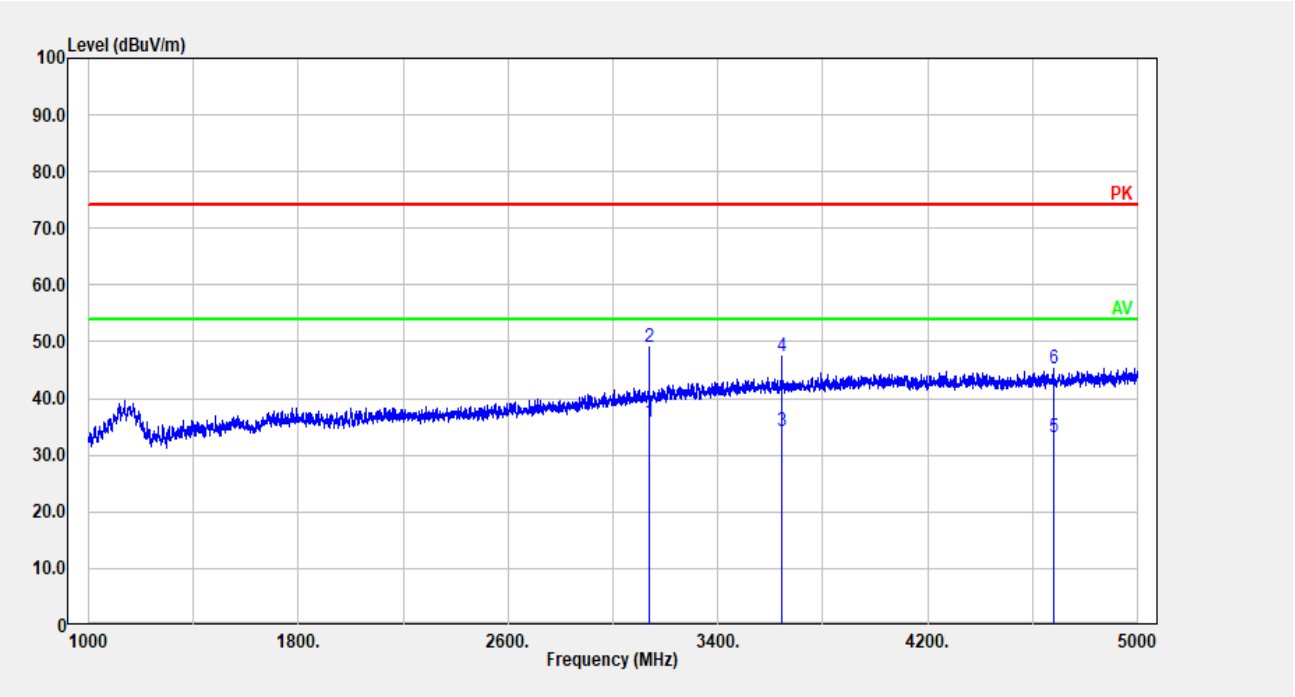
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	90.220	50.92	-17.13	33.79	43.50	9.71	Peak
2	210.786	55.01	-12.63	42.38	43.50	1.12	QP
3	378.584	54.33	-9.38	44.95	46.00	1.05	QP
4	473.835	49.48	-6.54	42.94	46.00	3.06	QP
5	522.718	44.40	-6.10	38.30	46.00	7.70	Peak
6	782.345	39.31	-2.52	36.79	46.00	9.21	Peak

Above 1G:
MURS Receiving(151.820MHz):
Horizontal:



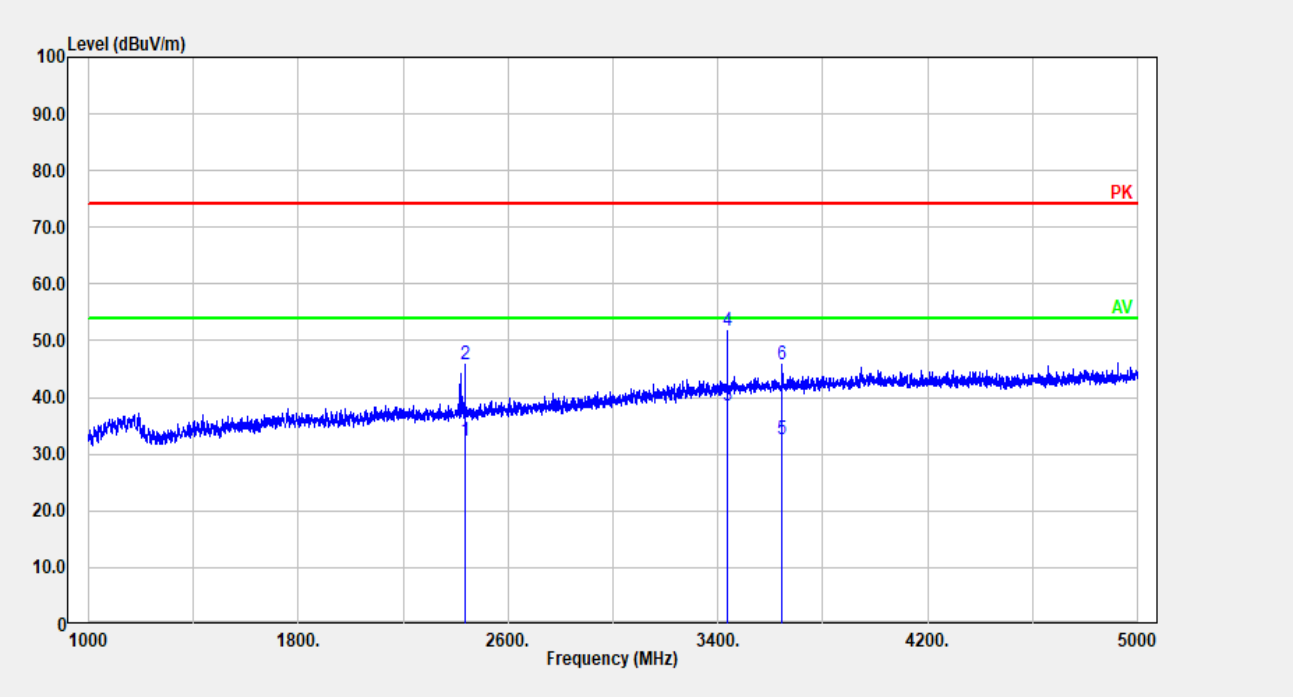
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	3138.028	25.28	7.04	32.32	54.00	21.68	Average
2	3138.028	38.51	7.04	45.55	74.00	28.45	Peak
3	3645.329	24.09	9.01	33.10	54.00	20.90	Average
4	3645.329	37.54	9.01	46.55	74.00	27.45	Peak
5	4826.365	22.07	10.58	32.65	54.00	21.35	Average
6	4826.365	34.49	10.58	45.07	74.00	28.93	Peak

Vertical:



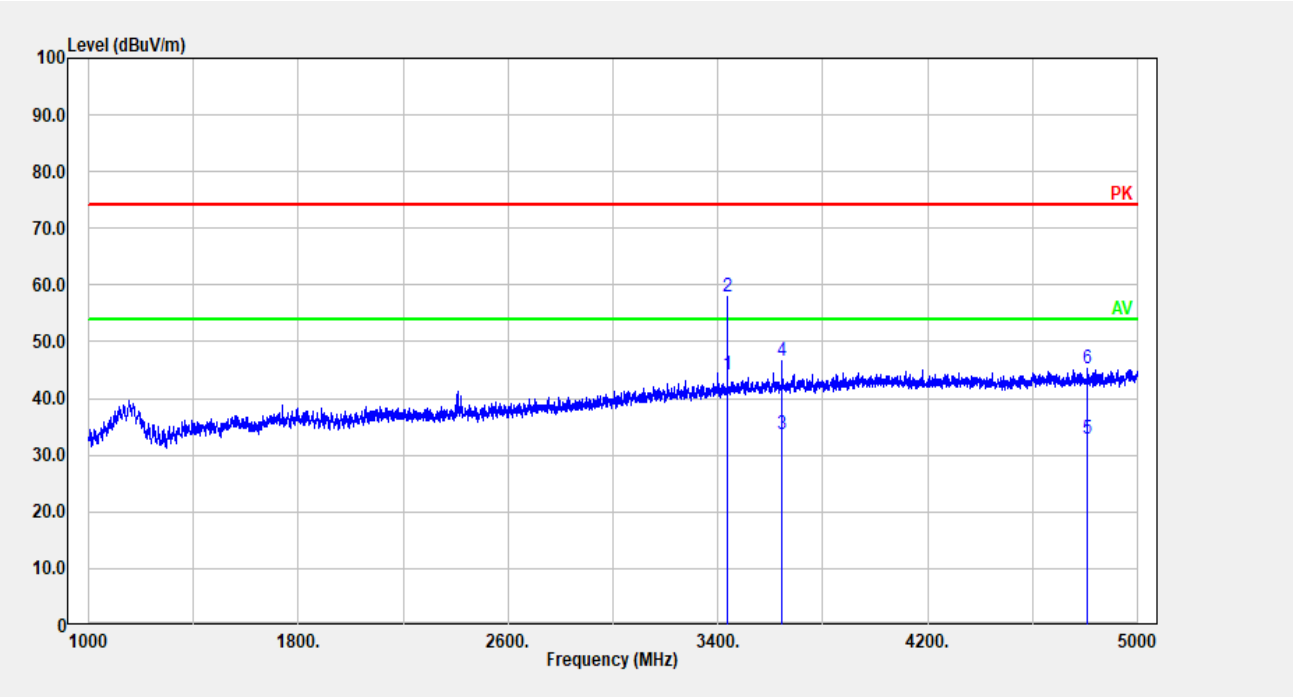
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	3138.028	28.77	7.04	35.81	54.00	18.19	Average
2	3138.028	41.95	7.04	48.99	74.00	25.01	Peak
3	3645.329	25.30	9.01	34.31	54.00	19.69	Average
4	3645.329	38.35	9.01	47.36	74.00	26.64	Peak
5	4680.736	22.97	10.19	33.16	54.00	20.84	Average
6	4680.736	35.12	10.19	45.31	74.00	28.69	Peak

MURS Receiving(154.600MHz):
Horizontal:



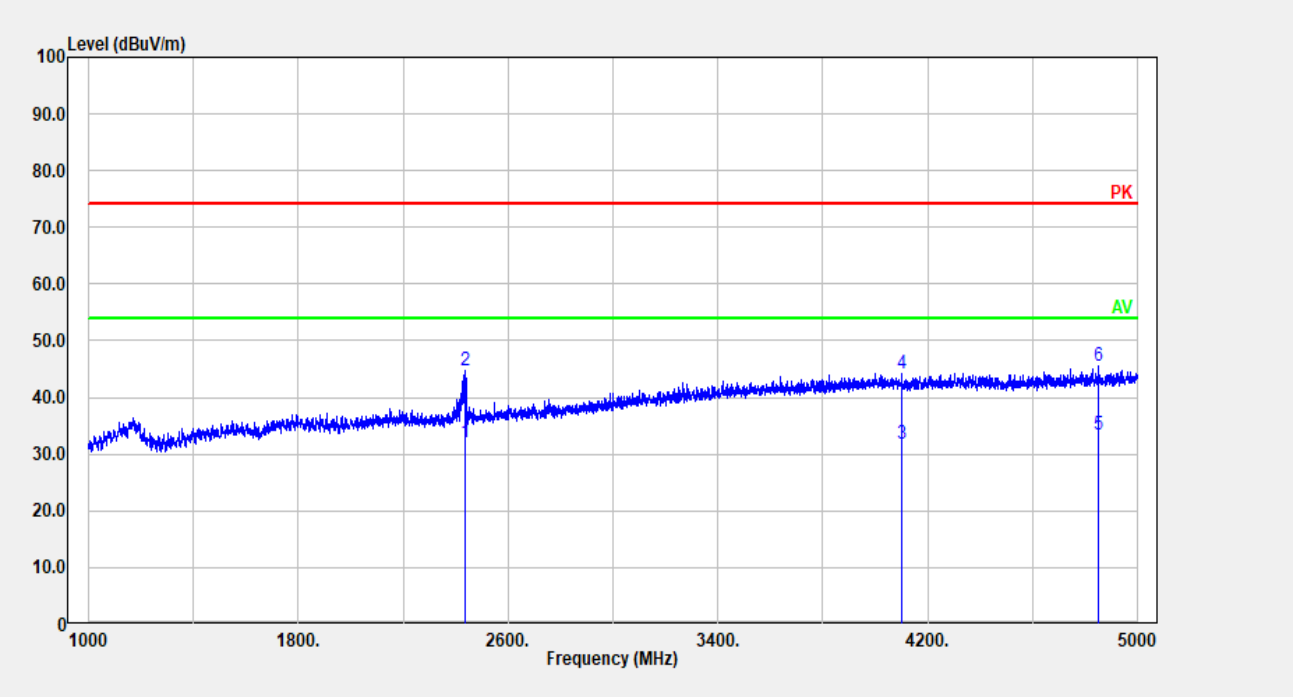
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	2437.087	28.72	3.71	32.43	54.00	21.57	Average
2	2437.087	41.99	3.71	45.70	74.00	28.30	Peak
3	3436.487	30.29	8.38	38.67	54.00	15.33	Average
4	3436.487	43.46	8.38	51.84	74.00	22.16	Peak
5	3645.329	23.58	9.01	32.59	54.00	21.41	Average
6	3645.329	36.84	9.01	45.85	74.00	28.15	Peak

Vertical:



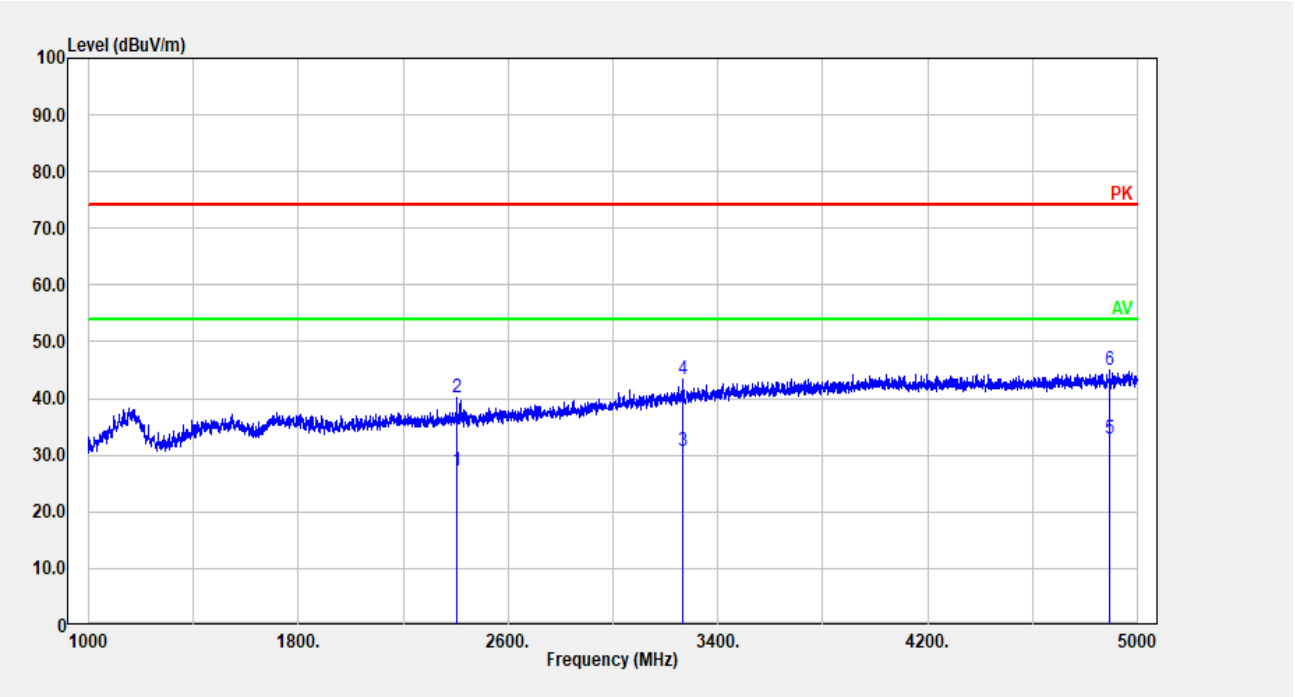
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	3435.687	35.96	8.37	44.33	54.00	9.67	Average
2	3435.687	49.57	8.37	57.94	74.00	16.06	Peak
3	3645.329	24.60	9.01	33.61	54.00	20.39	Average
4	3645.329	37.69	9.01	46.70	74.00	27.30	Peak
5	4810.362	22.33	10.62	32.95	54.00	21.05	Average
6	4810.362	34.62	10.62	45.24	74.00	28.76	Peak

VHF Receiving(136.0125MHz):
Horizontal:



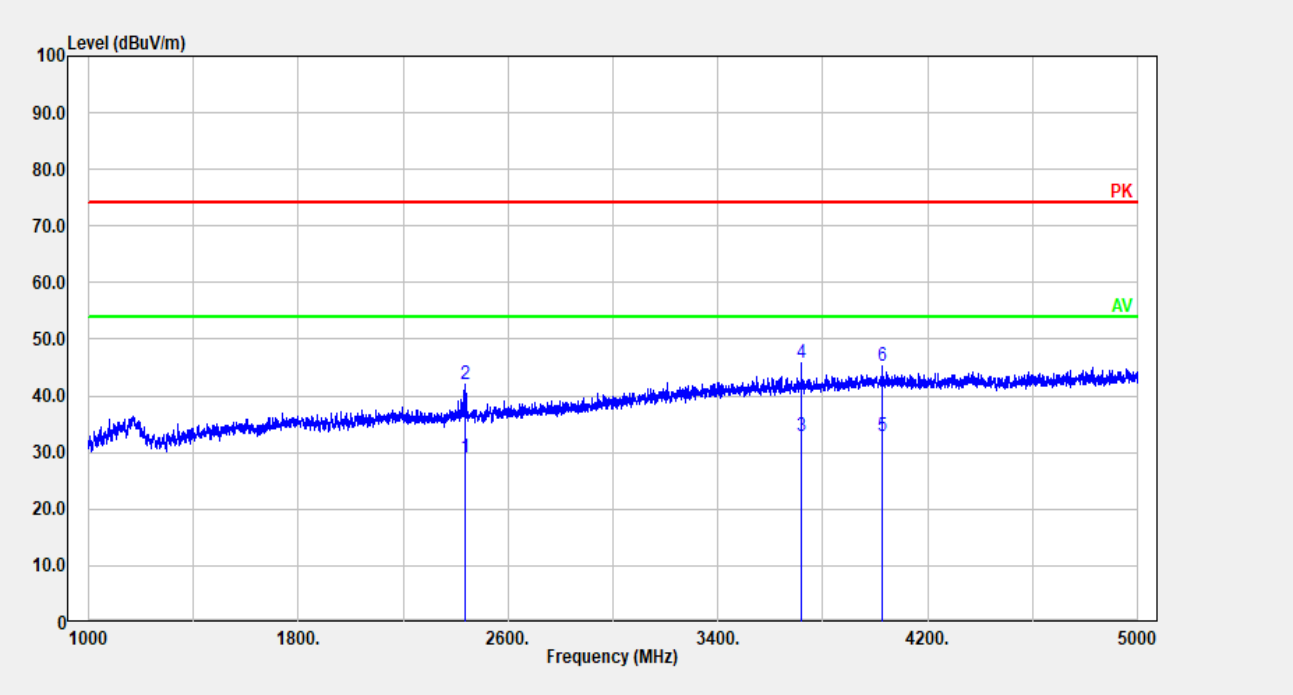
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	2437.087	28.41	3.71	32.12	54.00	21.88	Average
2	2437.087	41.09	3.71	44.80	74.00	29.20	Peak
3	4099.820	22.06	9.77	31.83	54.00	22.17	Average
4	4099.820	34.39	9.77	44.16	74.00	29.84	Peak
5	4851.970	22.90	10.52	33.42	54.00	20.58	Average
6	4851.970	35.06	10.52	45.58	74.00	28.42	Peak

Vertical:



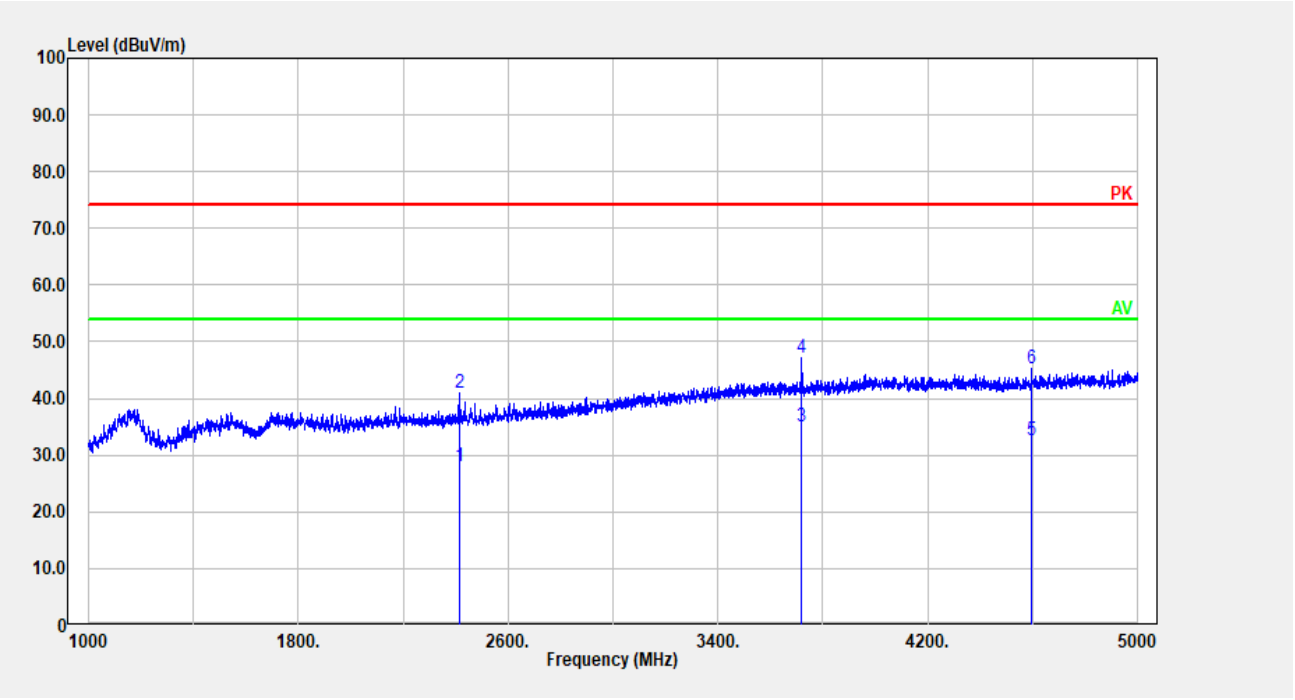
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	2405.881	23.64	3.69	27.33	54.00	26.67	Average
2	2405.881	36.49	3.69	40.18	74.00	33.82	Peak
3	3265.253	23.28	7.47	30.75	54.00	23.25	Average
4	3265.253	36.01	7.47	43.48	74.00	30.52	Peak
5	4891.979	22.26	10.50	32.76	54.00	21.24	Average
6	4891.979	34.63	10.50	45.13	74.00	28.87	Peak

VHF Receiving (150MHz):
Horizontal:



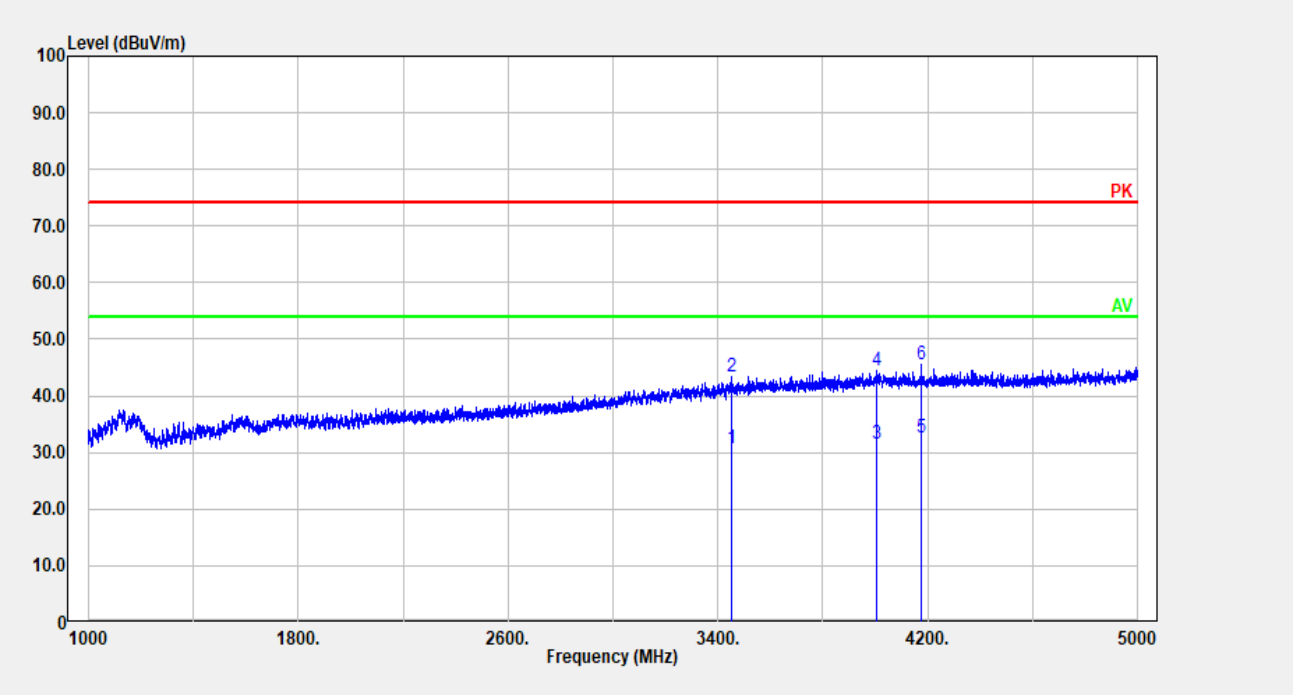
No.	Frequency	Reading	Factor	Result	Limit	Margin	Detector
	(MHz)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)	(dB)	
1	2434.687	25.34	3.71	29.05	54.00	24.95	Average
2	2434.687	38.35	3.71	42.06	74.00	31.94	Peak
3	3719.744	23.67	9.20	32.87	54.00	21.13	Average
4	3719.744	36.69	9.20	45.89	74.00	28.11	Peak
5	4025.405	22.92	9.94	32.86	54.00	21.14	Average
6	4025.405	35.32	9.94	45.26	74.00	28.74	Peak

Vertical:



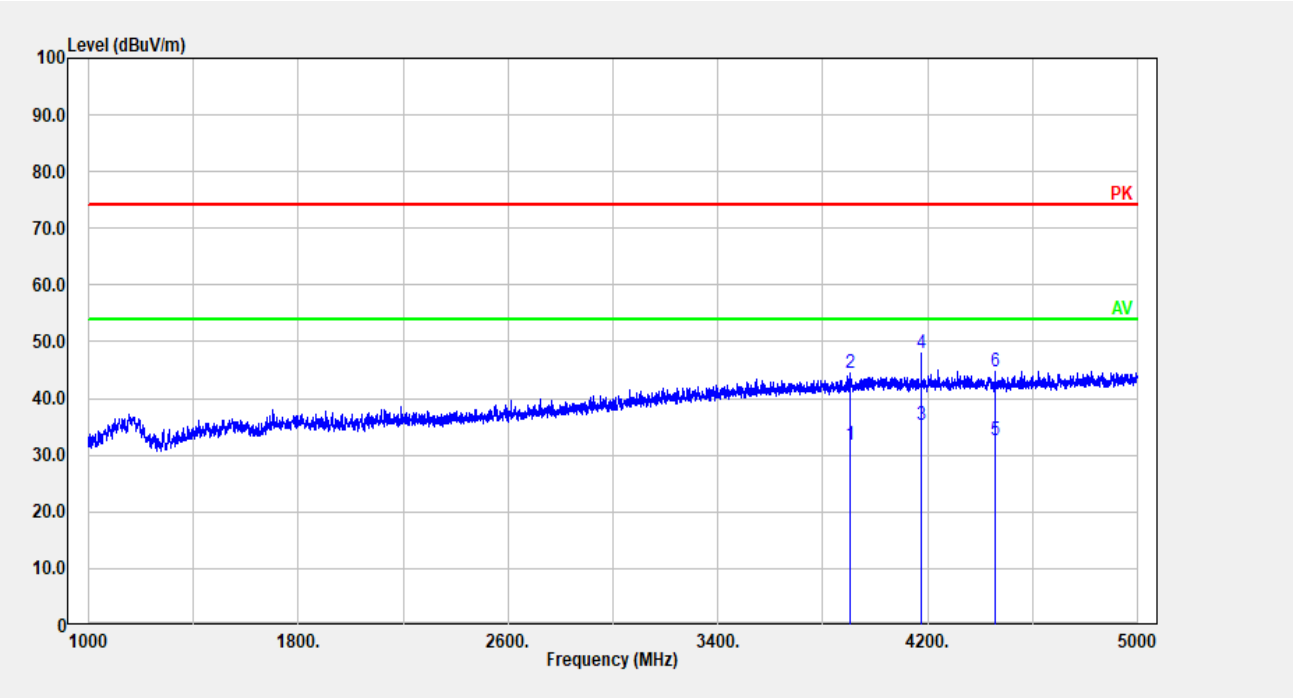
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	2416.283	24.38	3.70	28.08	54.00	25.92	Average
2	2416.283	37.26	3.70	40.96	74.00	33.04	Peak
3	3719.744	25.86	9.20	35.06	54.00	18.94	Average
4	3719.744	38.08	9.20	47.28	74.00	26.72	Peak
5	4597.520	22.35	10.16	32.51	54.00	21.49	Average
6	4597.520	35.10	10.16	45.26	74.00	28.74	Peak

VHF Receiving(173.9875MHz):
Horizontal:



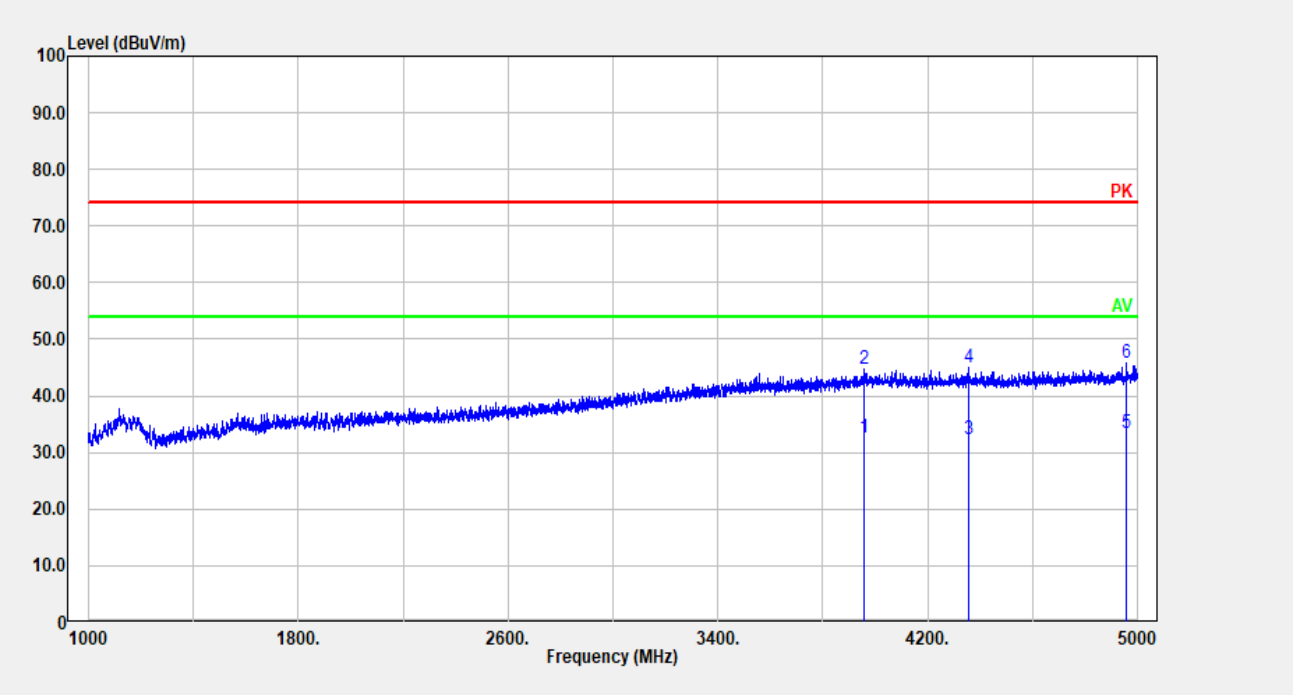
No.	Frequency	Reading	Factor	Result	Limit	Margin	Detector
	(MHz)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)	(dB)	
1	3450.090	22.23	8.46	30.69	54.00	23.31	Average
2	3450.090	34.99	8.46	43.45	74.00	30.55	Peak
3	4003.801	21.55	10.01	31.56	54.00	22.44	Average
4	4003.801	34.59	10.01	44.60	74.00	29.40	Peak
5	4175.835	22.98	9.69	32.67	54.00	21.33	Average
6	4175.835	35.98	9.69	45.67	74.00	28.33	Peak

Vertical:



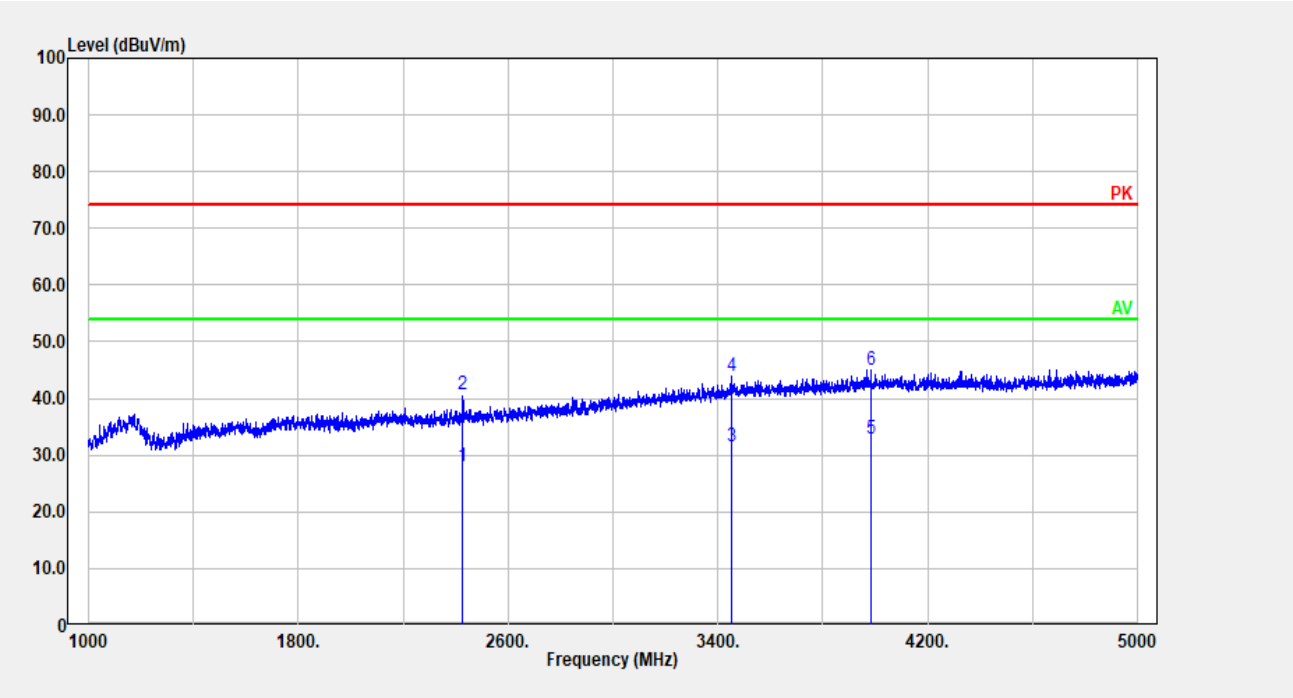
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	3906.981	22.27	9.63	31.90	54.00	22.10	Average
2	3906.981	34.72	9.63	44.35	74.00	29.65	Peak
3	4175.835	25.66	9.69	35.35	54.00	18.65	Average
4	4175.835	38.24	9.69	47.93	74.00	26.07	Peak
5	4456.691	22.89	9.67	32.56	54.00	21.44	Average
6	4456.691	35.13	9.67	44.80	74.00	29.20	Peak

UHF Receiving (400.0125MHz):
Horizontal:



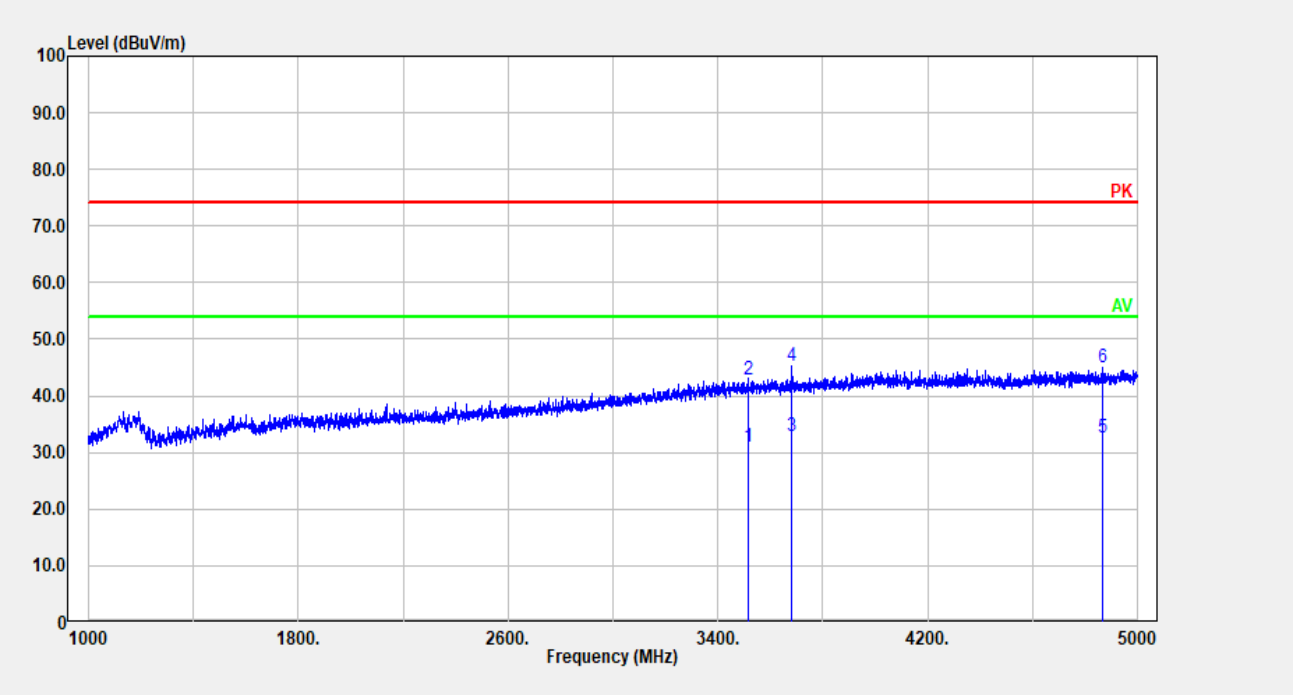
No.	Frequency	Reading	Factor	Result	Limit	Margin	Detector
	(MHz)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)	(dB)	
1	3959.792	22.77	9.89	32.66	54.00	21.34	Average
2	3959.792	34.79	9.89	44.68	74.00	29.32	Peak
3	4357.472	22.57	9.76	32.33	54.00	21.67	Average
4	4357.472	35.23	9.76	44.99	74.00	29.01	Peak
5	4959.192	22.50	10.91	33.41	54.00	20.59	Average
6	4959.192	34.88	10.91	45.79	74.00	28.21	Peak

Vertical:



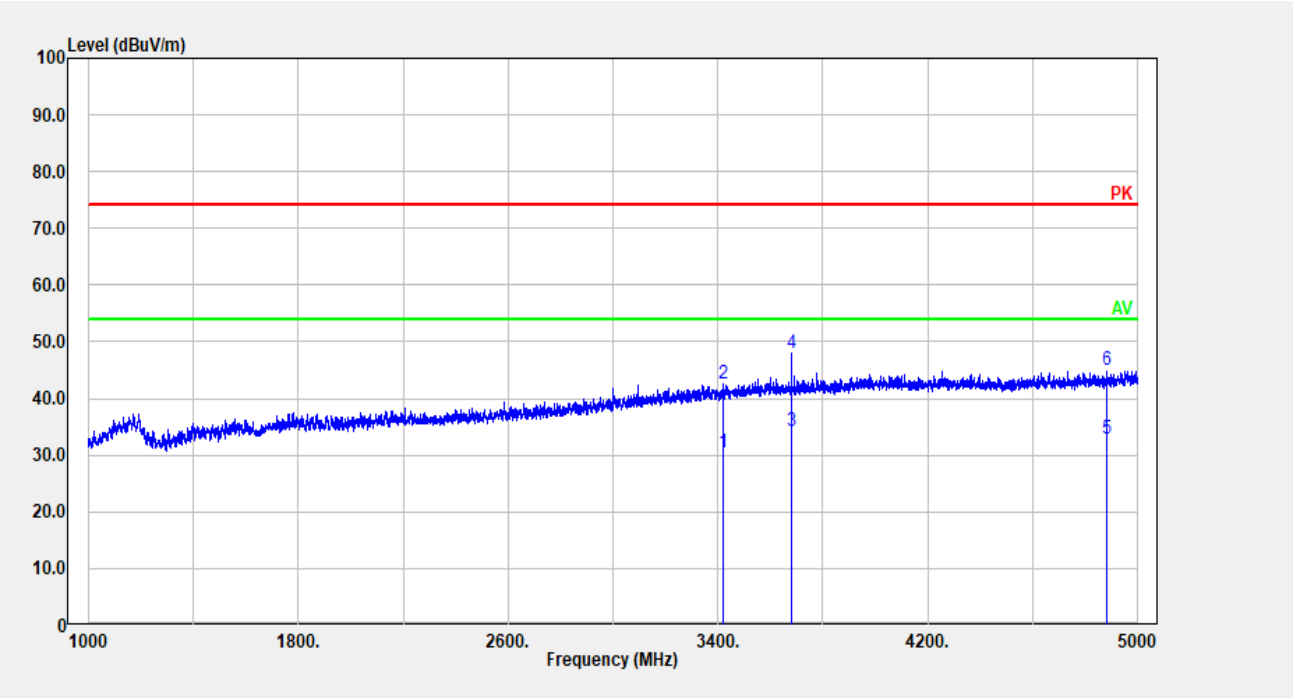
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	2427.486	24.40	3.71	28.11	54.00	25.89	Average
2	2427.486	36.86	3.71	40.57	74.00	33.43	Peak
3	3450.090	23.10	8.46	31.56	54.00	22.44	Average
4	3450.090	35.49	8.46	43.95	74.00	30.05	Peak
5	3983.797	23.02	9.97	32.99	54.00	21.01	Average
6	3983.797	35.10	9.97	45.07	74.00	28.93	Peak

UHF Receiving (460MHz):
Horizontal:



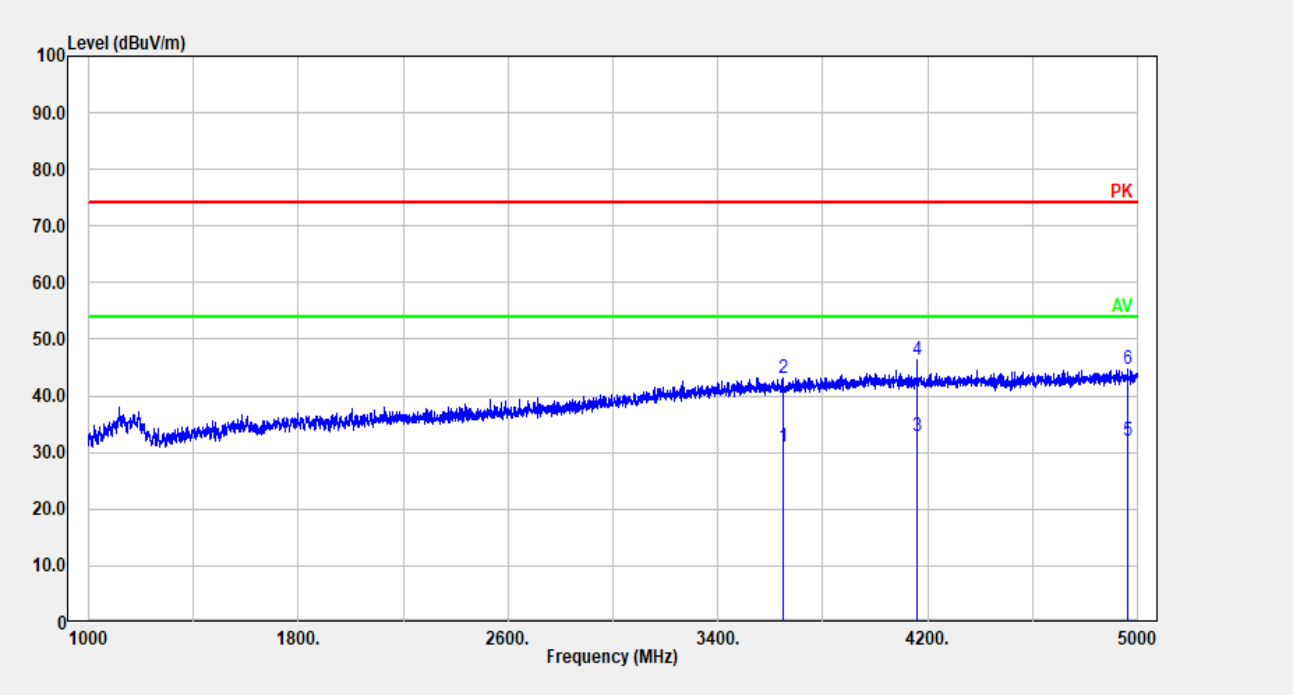
No.	Frequency	Reading	Factor	Result	Limit	Margin	Detector
	(MHz)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)	(dB)	
1	3515.703	22.21	8.70	30.91	54.00	23.09	Average
2	3515.703	34.29	8.70	42.99	74.00	31.01	Peak
3	3680.536	23.88	9.12	33.00	54.00	21.00	Average
4	3680.536	36.07	9.12	45.19	74.00	28.81	Peak
5	4866.373	22.07	10.52	32.59	54.00	21.41	Average
6	4866.373	34.39	10.52	44.91	74.00	29.09	Peak

Vertical:



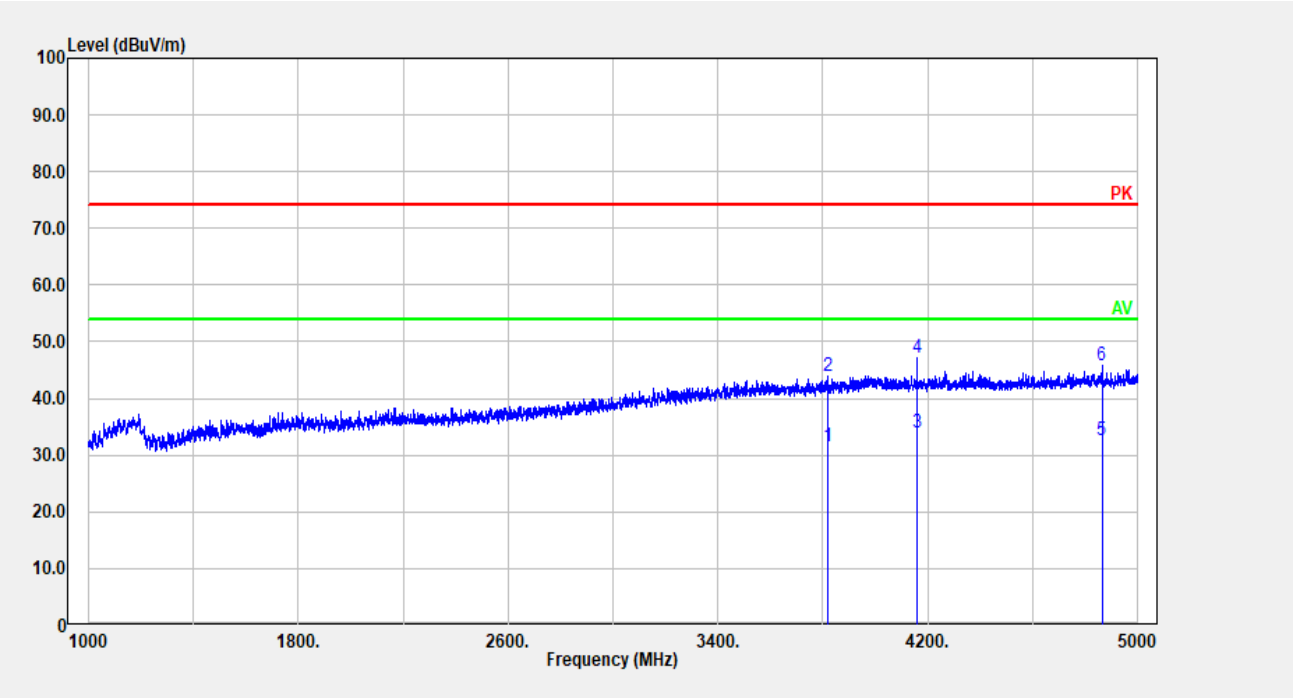
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	3418.884	22.20	8.27	30.47	54.00	23.53	Average
2	3418.884	34.35	8.27	42.62	74.00	31.38	Peak
3	3679.736	24.99	9.12	34.11	54.00	19.89	Average
4	3679.736	38.85	9.12	47.97	74.00	26.03	Peak
5	4881.576	22.32	10.51	32.83	54.00	21.17	Average
6	4881.576	34.37	10.51	44.88	74.00	29.12	Peak

UHF Receiving (519.9875MHz):
Horizontal:



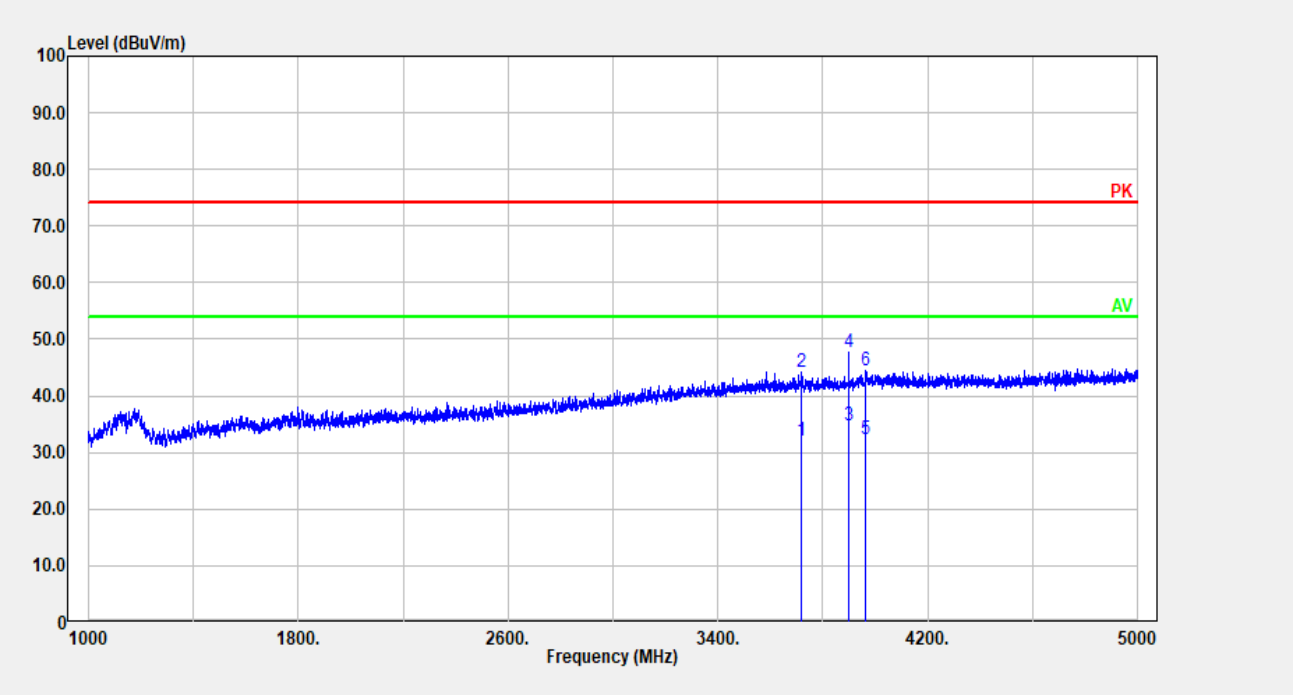
No.	Frequency	Reading	Factor	Result	Limit	Margin	Detector
	(MHz)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)	(dB)	
1	3648.530	22.03	9.01	31.04	54.00	22.96	Average
2	3648.530	34.17	9.01	43.18	74.00	30.82	Peak
3	4159.832	23.31	9.64	32.95	54.00	21.05	Average
4	4159.832	36.60	9.64	46.24	74.00	27.76	Peak
5	4964.793	21.17	10.94	32.11	54.00	21.89	Average
6	4964.793	33.70	10.94	44.64	74.00	29.36	Peak

Vertical:



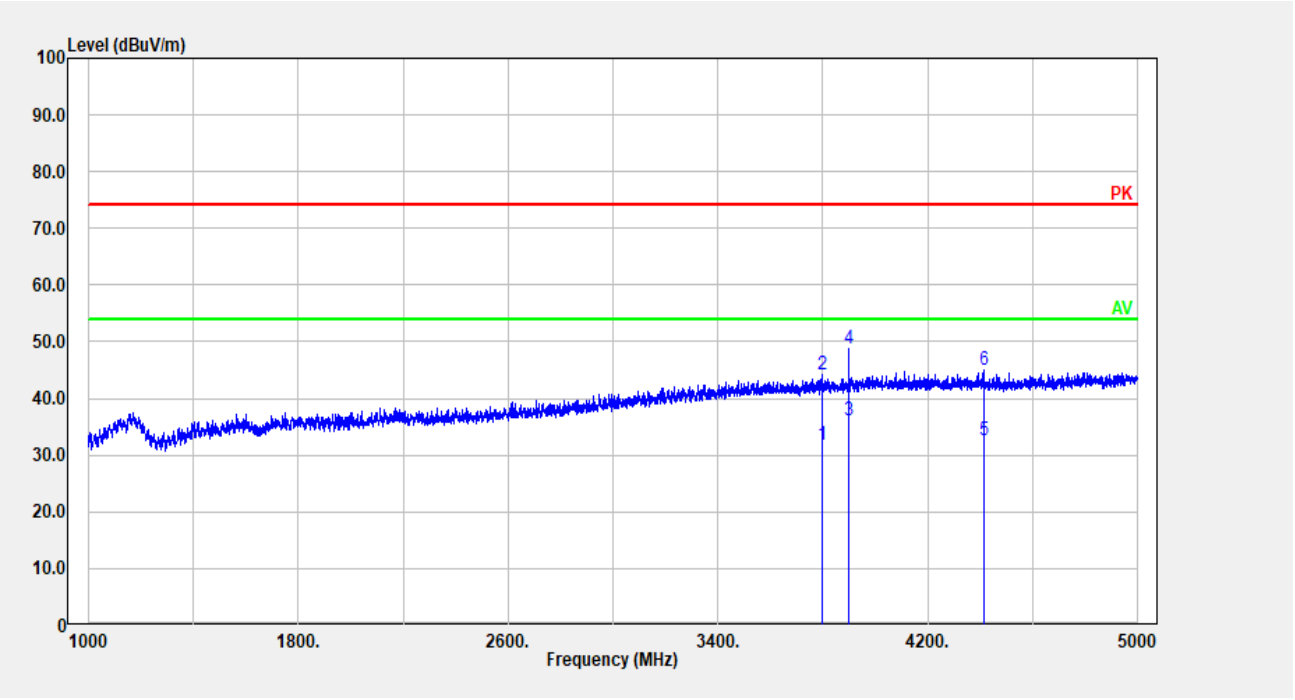
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	3817.364	22.05	9.46	31.51	54.00	22.49	Average
2	3817.364	34.50	9.46	43.96	74.00	30.04	Peak
3	4159.832	24.32	9.64	33.96	54.00	20.04	Average
4	4159.832	37.43	9.64	47.07	74.00	26.93	Peak
5	4864.773	22.20	10.52	32.72	54.00	21.28	Average
6	4864.773	35.32	10.52	45.84	74.00	28.16	Peak

NOAA Receiving(162.4MHz):
Horizontal:



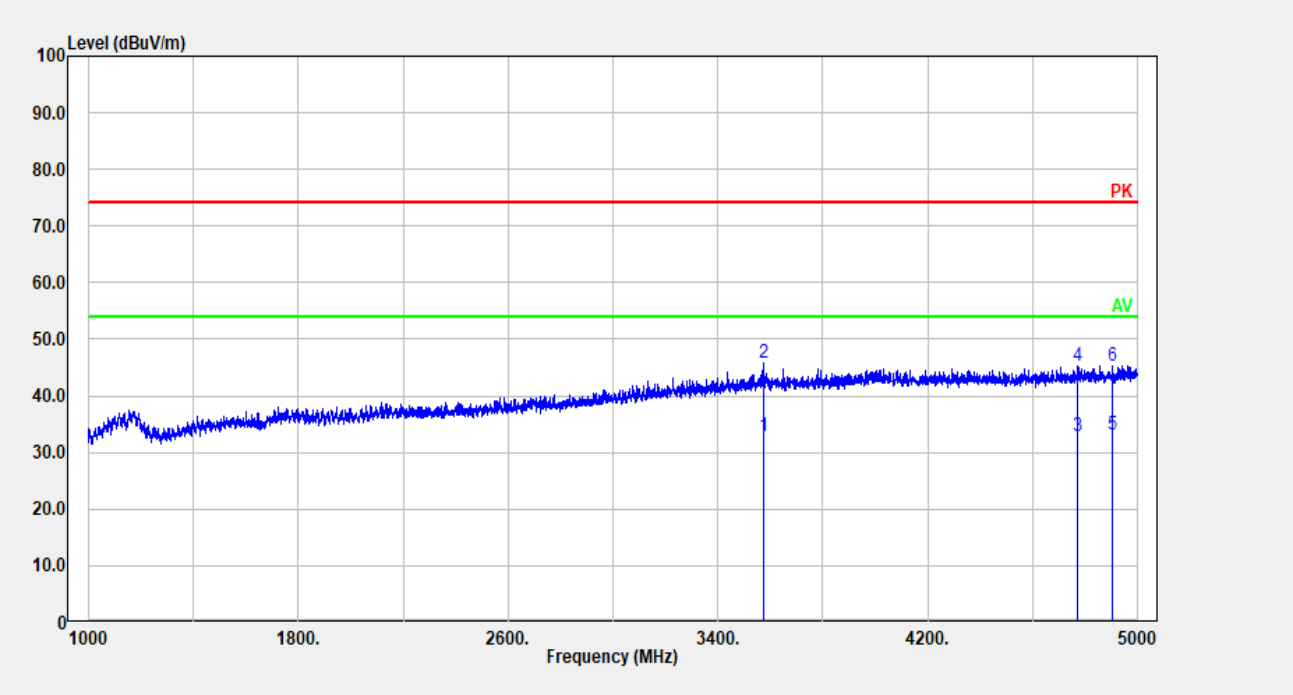
No.	Frequency	Reading	Factor	Result	Limit	Margin	Detector
	(MHz)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)	(dB)	
1	3720.544	22.95	9.20	32.15	54.00	21.85	Average
2	3720.544	35.11	9.20	44.31	74.00	29.69	Peak
3	3899.780	25.31	9.59	34.90	54.00	19.10	Average
4	3899.780	38.06	9.59	47.65	74.00	26.35	Peak
5	3965.393	22.50	9.91	32.41	54.00	21.59	Average
6	3965.393	34.59	9.91	44.50	74.00	29.50	Peak

Vertical:



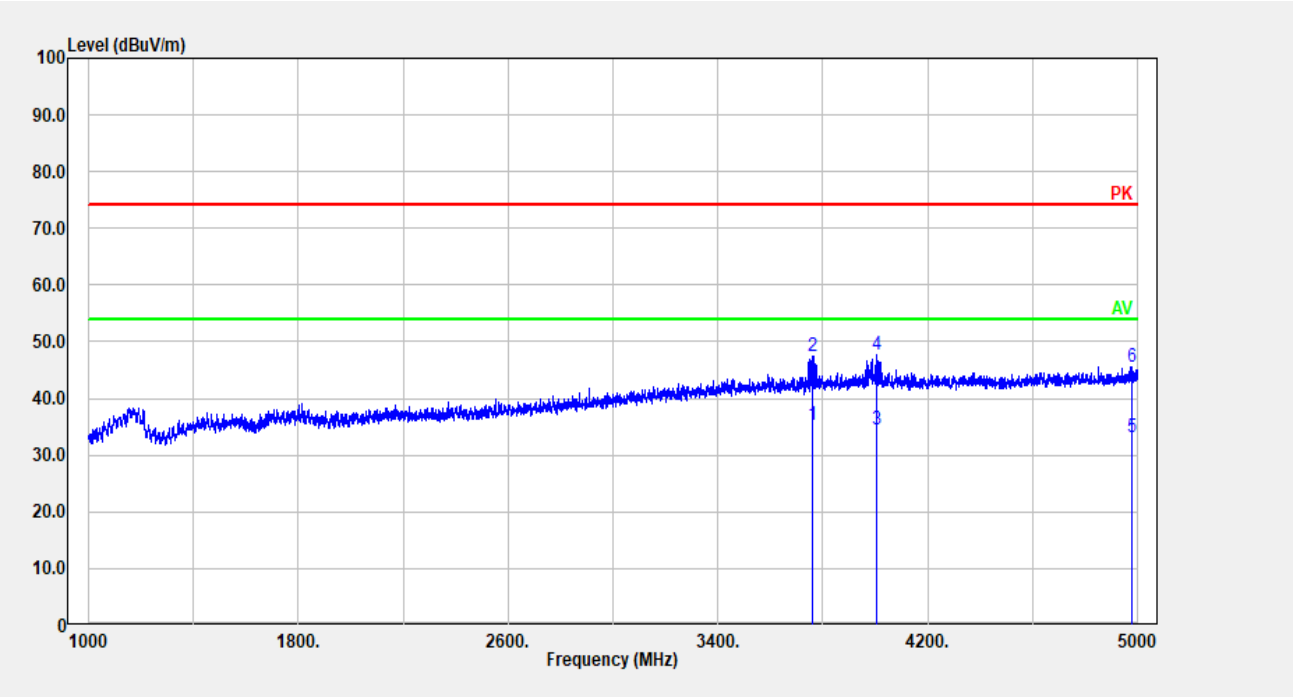
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	3798.960	22.35	9.46	31.81	54.00	22.19	Average
2	3798.960	34.77	9.46	44.23	74.00	29.77	Peak
3	3899.780	26.41	9.59	36.00	54.00	18.00	Average
4	3899.780	39.22	9.59	48.81	74.00	25.19	Peak
5	4413.483	22.98	9.75	32.73	54.00	21.27	Average
6	4413.483	35.35	9.75	45.10	74.00	28.90	Peak

VHF Scanning(136MHz-174MHz):
Horizontal:



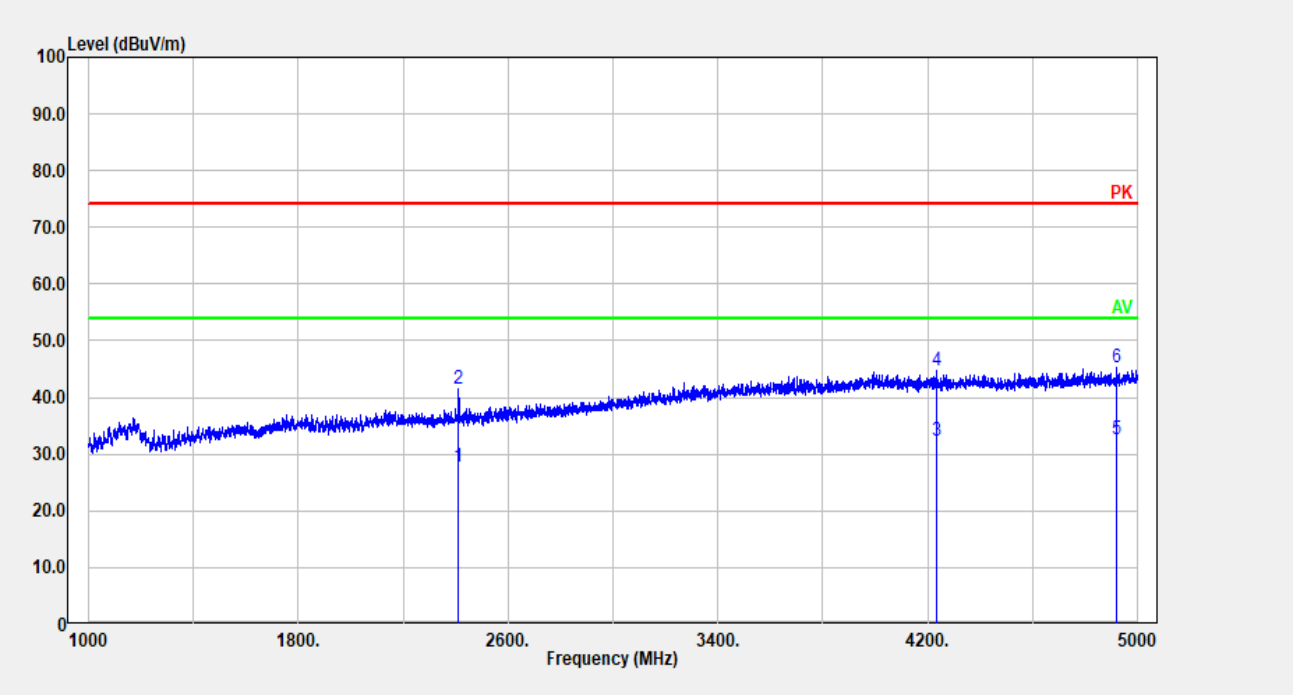
No.	Frequency	Reading	Factor	Result	Limit	Margin	Detector
	(MHz)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)	(dB)	
1	3572.514	23.95	8.97	32.92	54.00	21.08	Average
2	3572.514	36.91	8.97	45.88	74.00	28.12	Peak
3	4773.555	22.37	10.53	32.90	54.00	21.10	Average
4	4773.555	34.64	10.53	45.17	74.00	28.83	Peak
5	4906.381	22.56	10.55	33.11	54.00	20.89	Average
6	4906.381	34.84	10.55	45.39	74.00	28.61	Peak

Vertical:



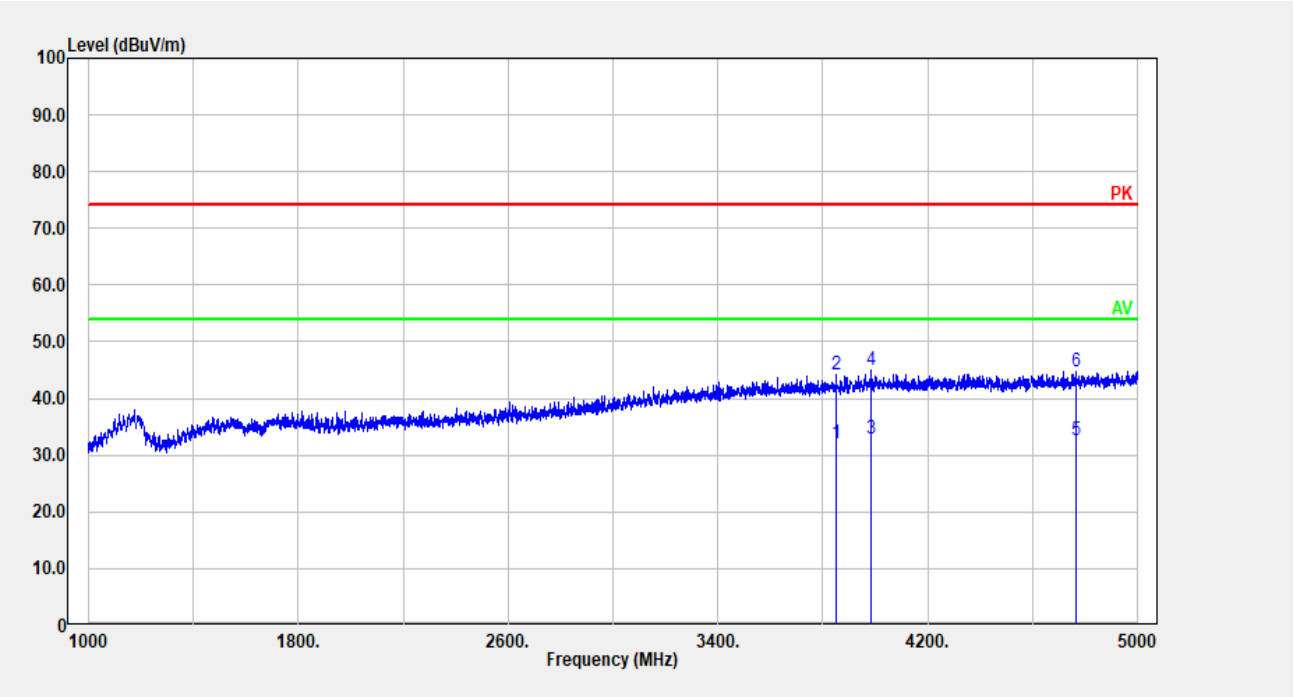
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	3762.152	25.93	9.28	35.21	54.00	18.79	Average
2	3762.152	38.27	9.28	47.55	74.00	26.45	Peak
3	4007.001	24.44	10.00	34.44	54.00	19.56	Average
4	4007.001	37.74	10.00	47.74	74.00	26.26	Peak
5	4980.796	22.09	11.00	33.09	54.00	20.91	Average
6	4980.796	34.50	11.00	45.50	74.00	28.50	Peak

UHF Scanning (400MHz-520MHz):
Horizontal:



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	2410.682	24.12	3.70	27.82	54.00	26.18	Average
2	2410.682	37.70	3.70	41.40	74.00	32.60	Peak
3	4232.646	22.69	9.75	32.44	54.00	21.56	Average
4	4232.646	34.95	9.75	44.70	74.00	29.30	Peak
5	4922.384	22.05	10.67	32.72	54.00	21.28	Average
6	4922.384	34.52	10.67	45.19	74.00	28.81	Peak

Vertical:



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	3852.571	22.60	9.46	32.06	54.00	21.94	Average
2	3852.571	34.68	9.46	44.14	74.00	29.86	Peak
3	3986.197	22.88	9.98	32.86	54.00	21.14	Average
4	3986.197	35.05	9.98	45.03	74.00	28.97	Peak
5	4763.953	22.18	10.48	32.66	54.00	21.34	Average
6	4763.953	34.34	10.48	44.82	74.00	29.18	Peak

4.4 Antenna Power Conduction Limits for Receivers

Serial Number:	CR2205024-RF-S1	Test Date:	2022-08-04
Test Site:	RF	Test Mode:	Receiving
Tester:	Morpheus Shi	Test Result:	Pass

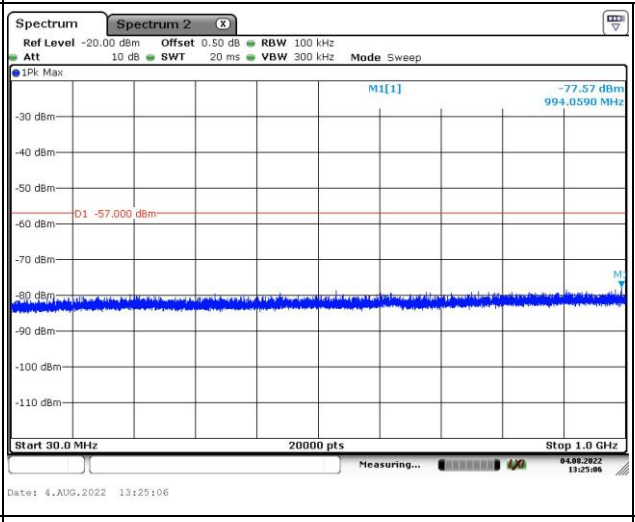
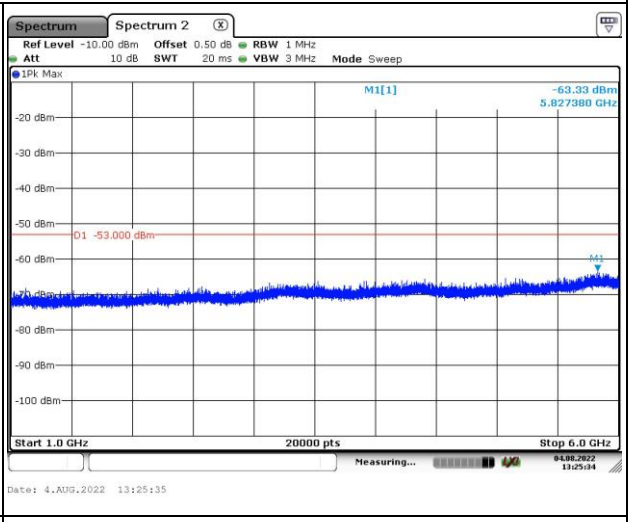
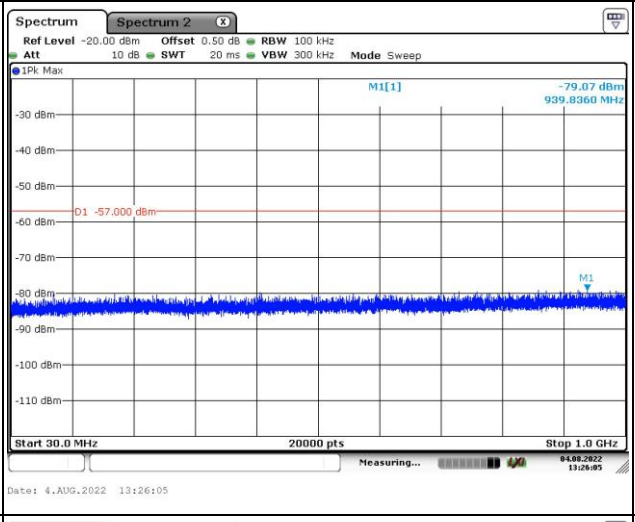
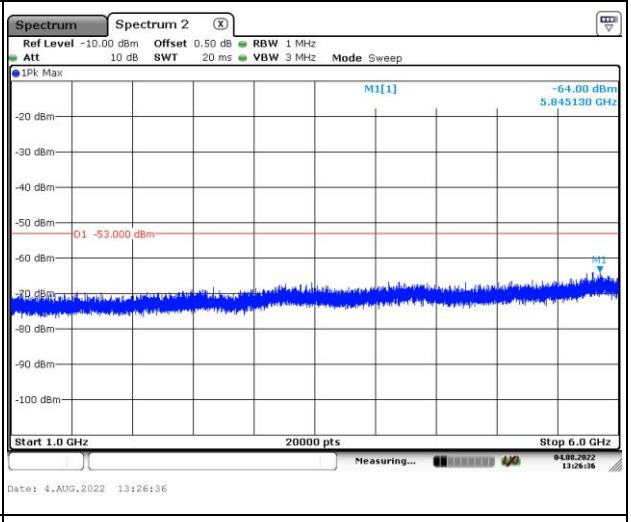
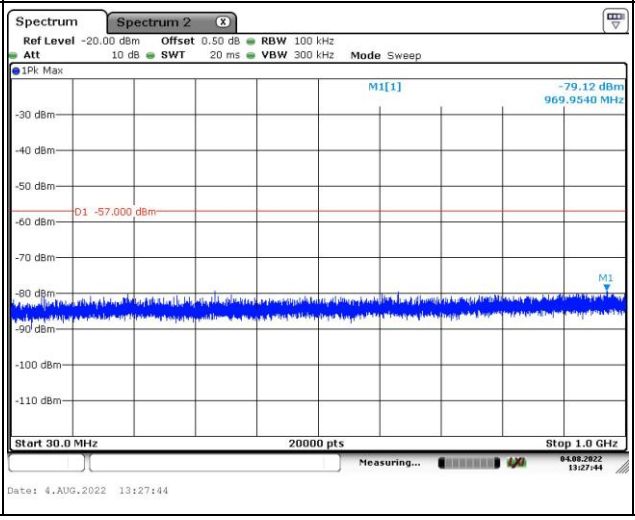
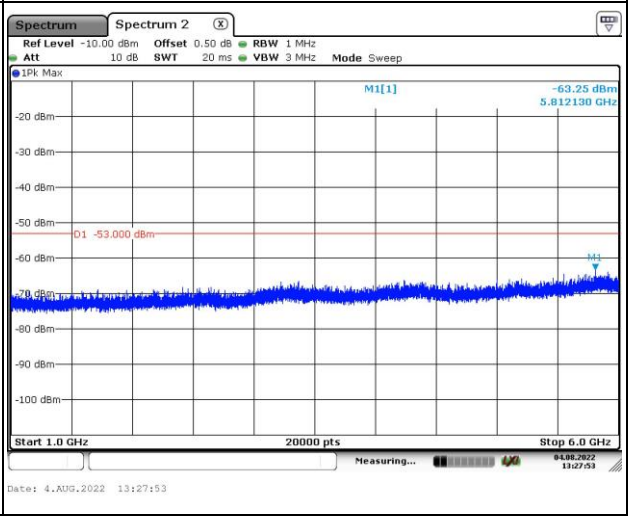
Environmental Conditions:					
Temperature: (℃)	27.8	Relative Humidity: (%)	65	ATM Pressure: (kPa)	100.3

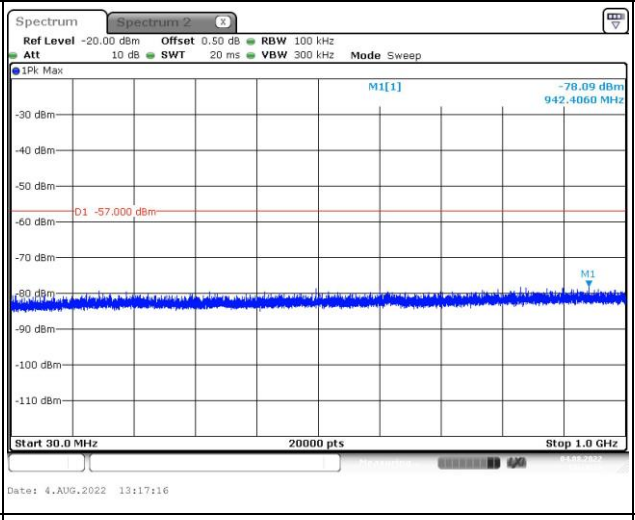
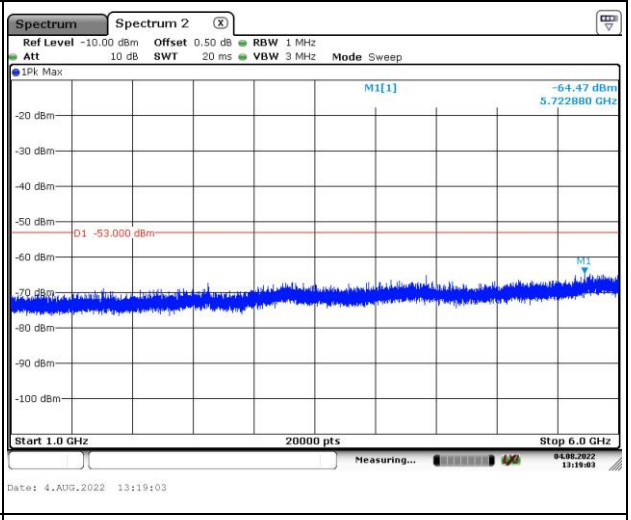
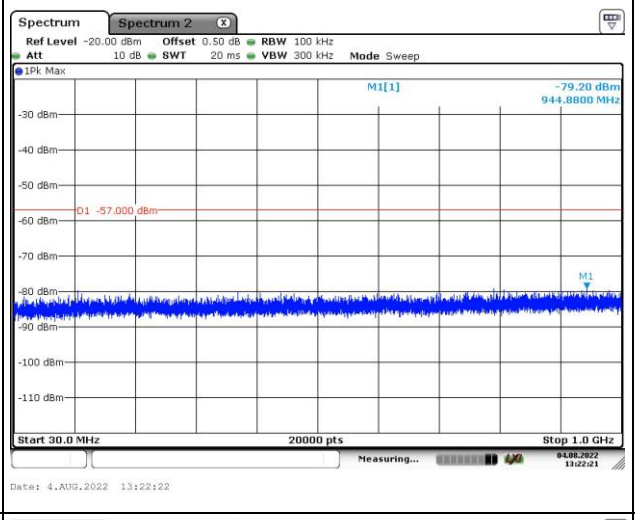
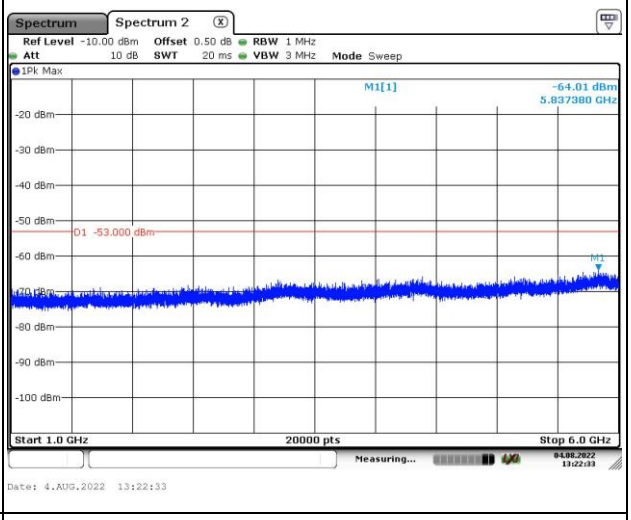
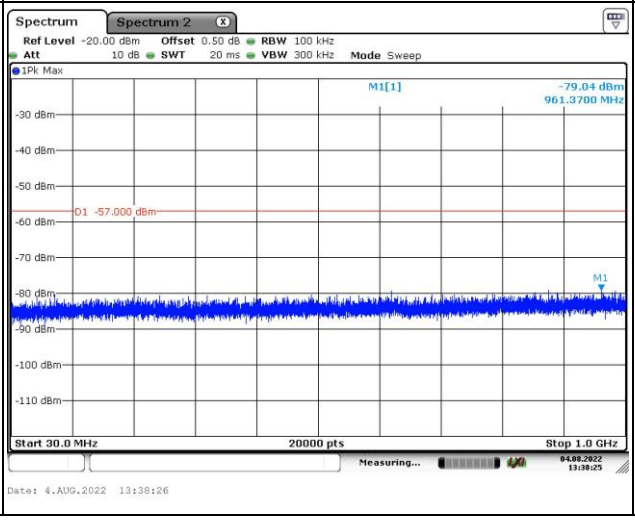
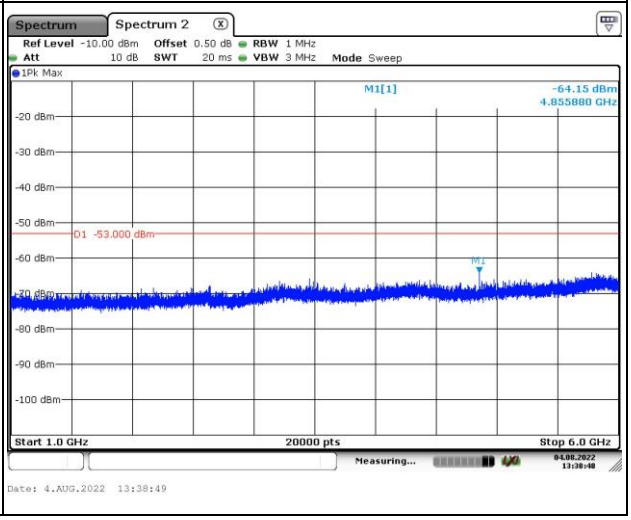
Test Equipment List and Details:

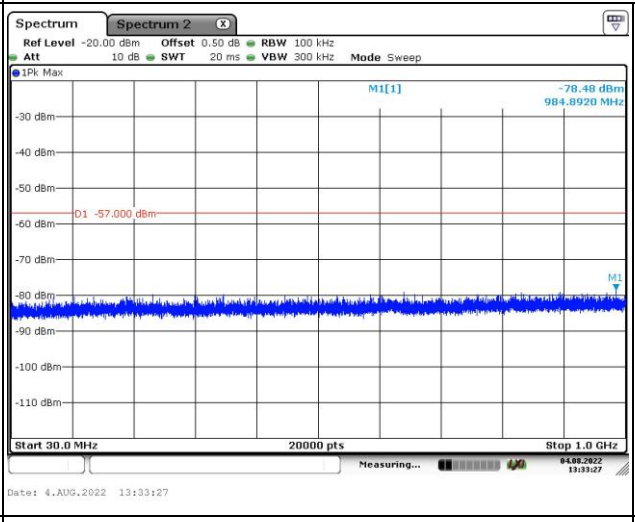
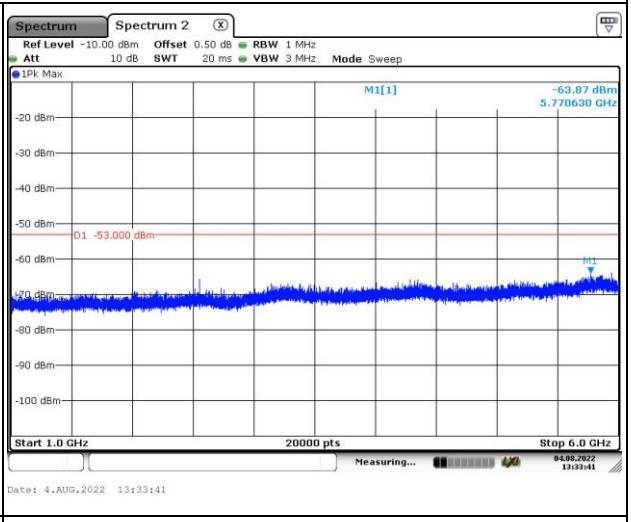
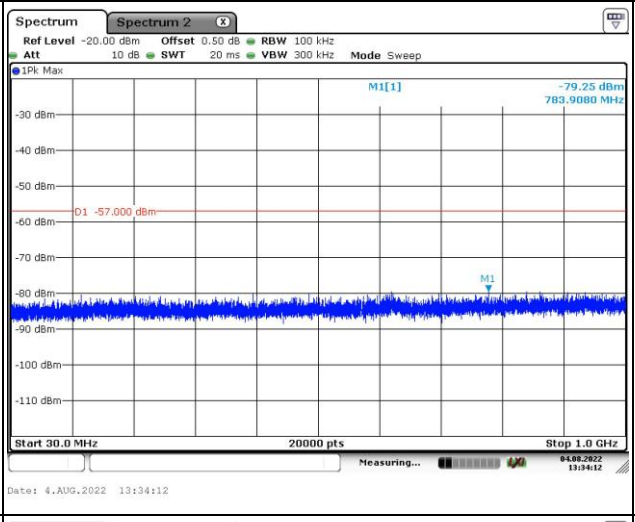
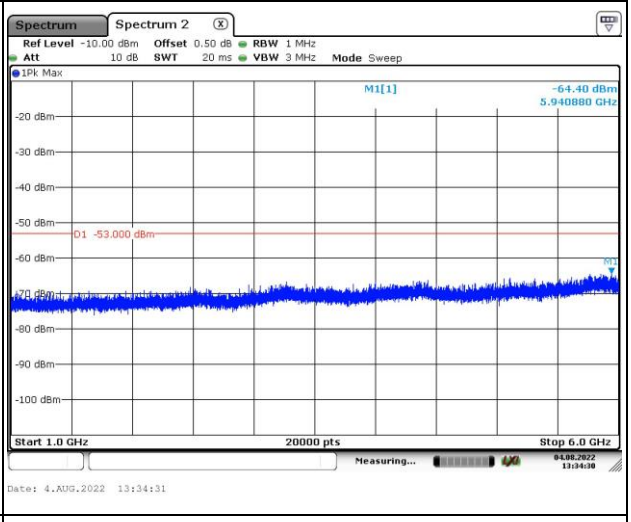
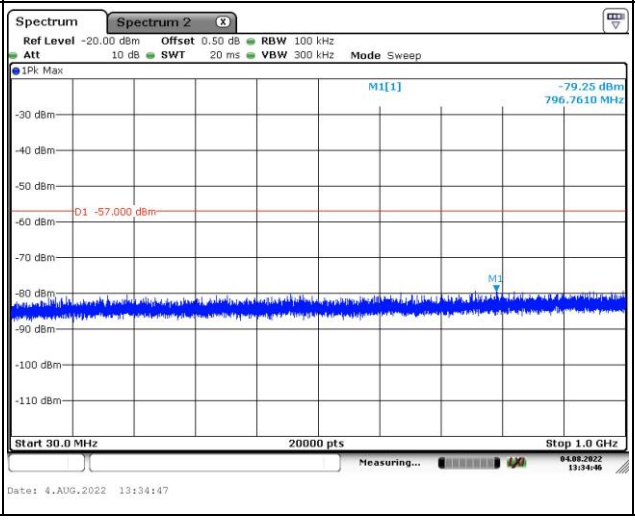
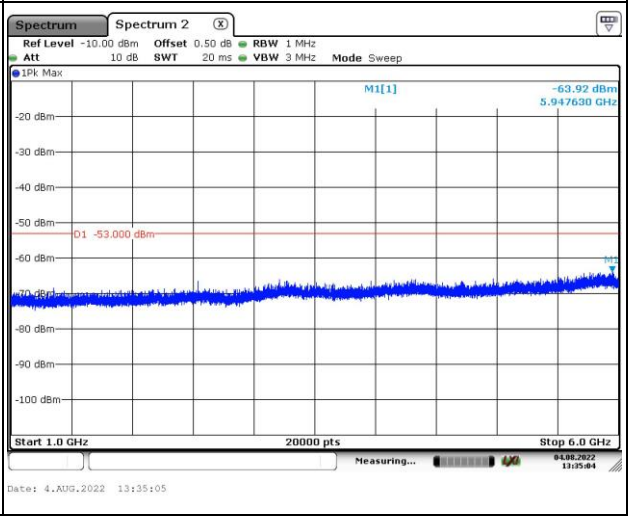
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2022-07-22	2023-07-21
YINSAIGE	Coaxial Cable	SS402	SJ0100003	Each time	N/A
zhuoxiang	Coaxial Cable	SMA-178	211002	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554404	Each time	N/A
Weinschel	Power splitter	1515	RA915	Each time	N/A
Weinschel	Coaxial Attenuators	53-20-34	LN751	Each time	N/A
HP	RF Communications Test Set	8920A	3438A05209	2021-07-22	2022-07-21

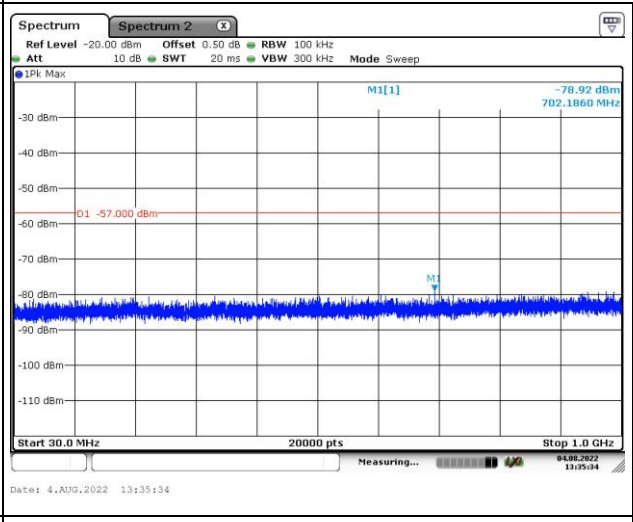
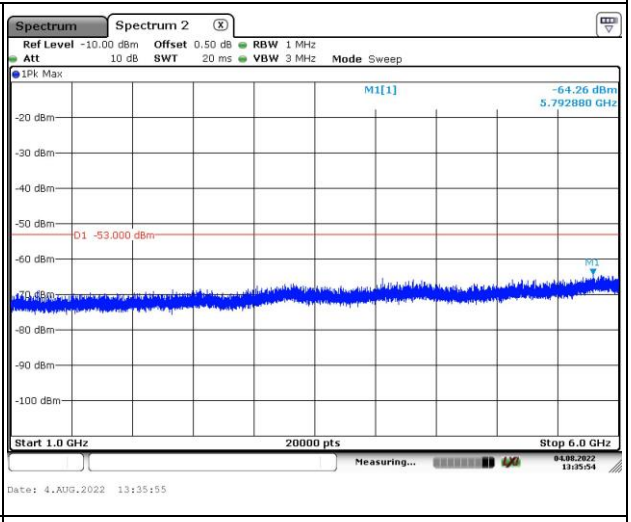
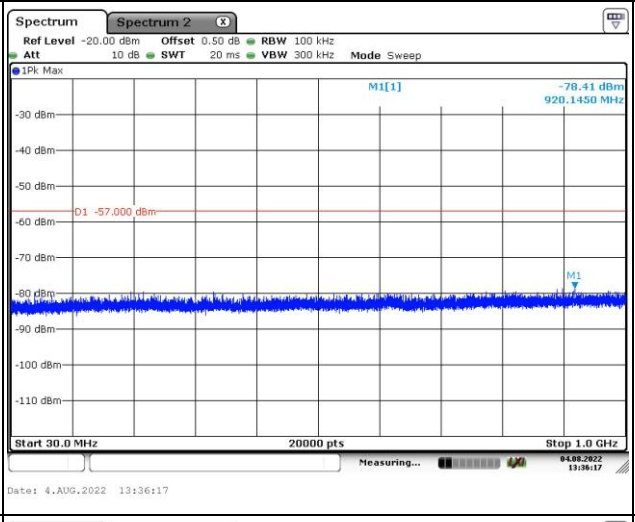
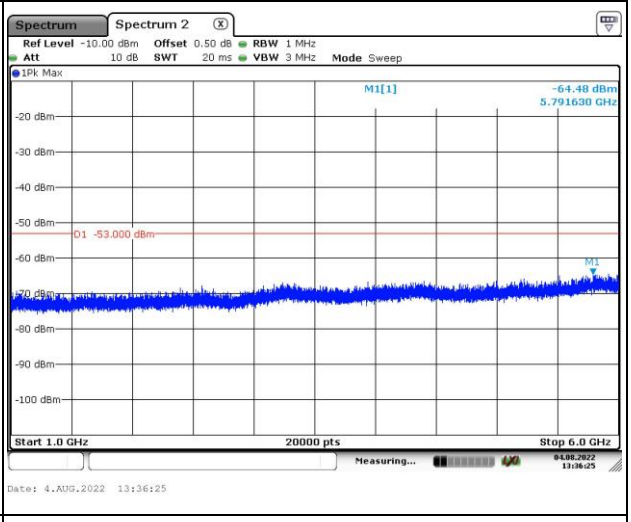
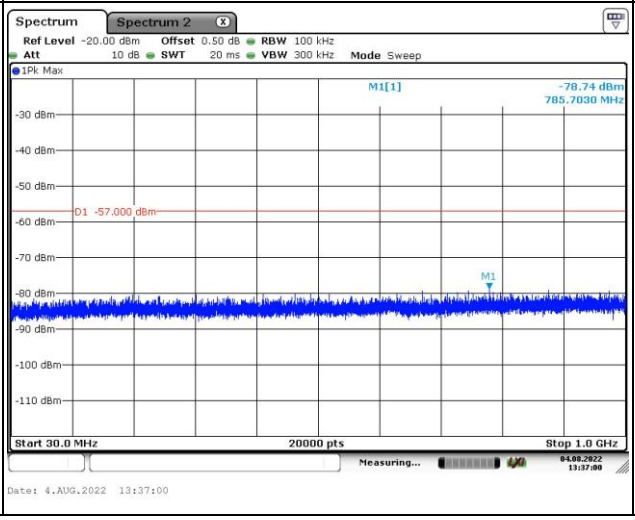
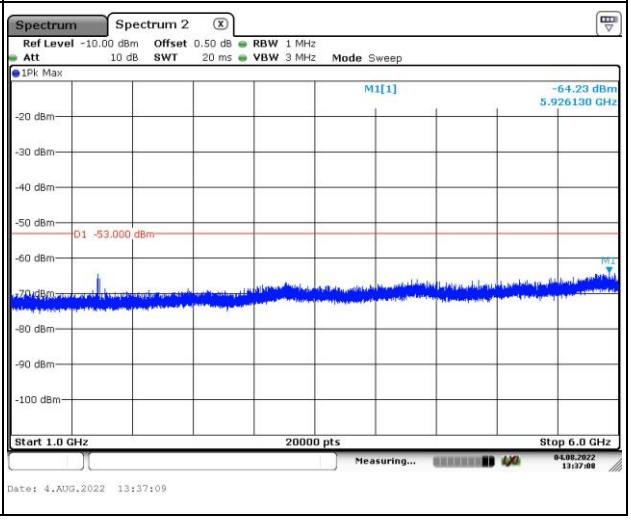
** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

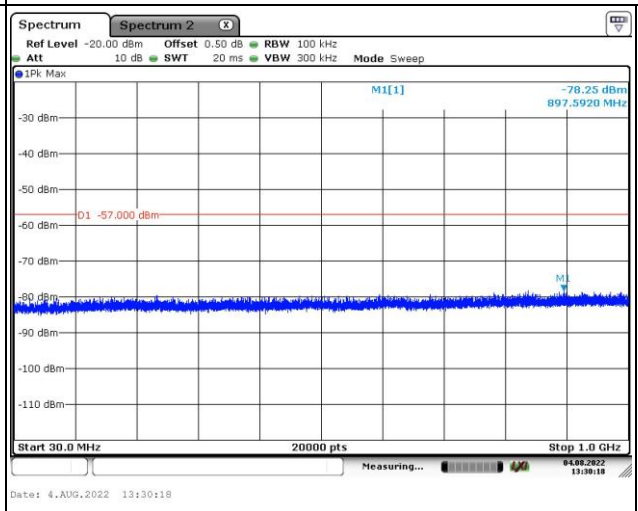
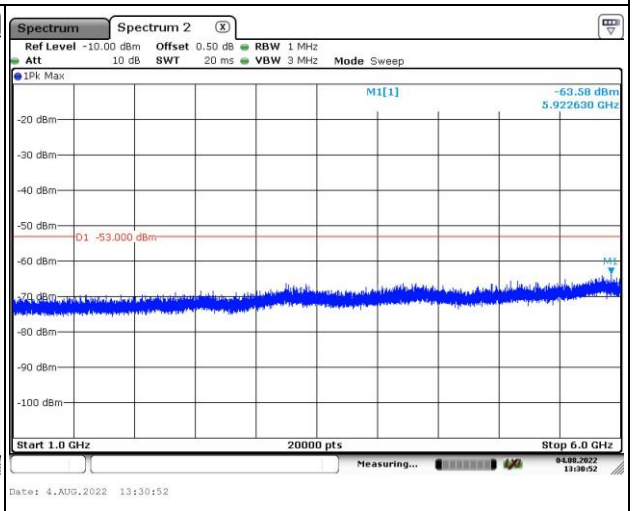
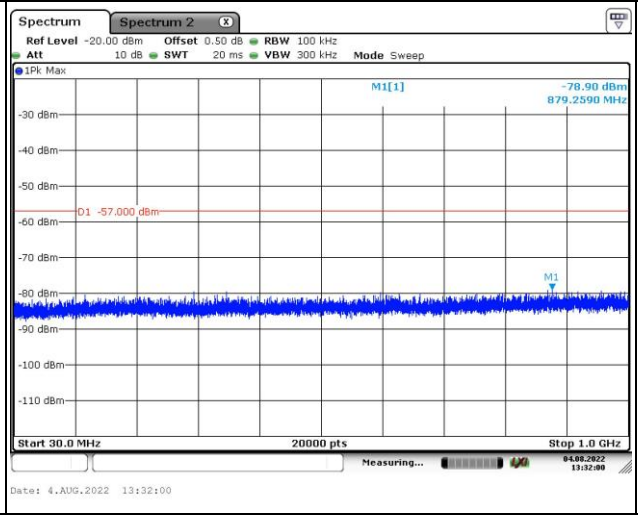
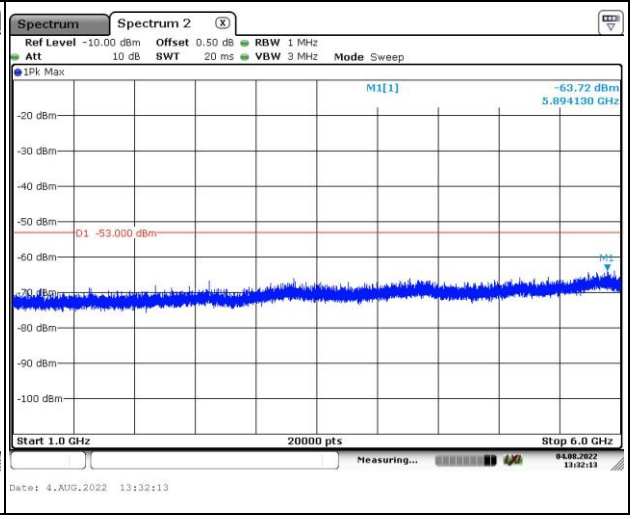
Test Data:

Modes	Antenna Power Conduction Limits for Receivers	
FM Broadcast Receiving (65.1 MHz)		
FM Broadcast Receiving (86.5 MHz)		
FM Broadcast Receiving (107.9 MHz)		

Modes	Antenna Power Conduction Limits for Receivers	
MURS Receiving (151.820 MHz)		
MURS Receiving (154.600 MHz)		
NOAA Receiving (162.40 MHz)		

Modes	Antenna Power Conduction Limits for Receivers	
VHF Receiving (136.0125 MHz)		
VHF Receiving (150 MHz)		
VHF Receiving (173.9875 MHz)		

Modes	Antenna Power Conduction Limits for Receivers	
UHF Receiving (400.0125 MHz)		
UHF Receiving (460 MHz)		
UHF Receiving (519.9875 MHz)		

Modes	Antenna Power Conduction Limits for Receivers	
VHF Scanning (136-174 MHz)		
UHF Scanning (400-520 MHz)		

4.5 Scanning Receivers and Frequency Converters Used with Scanning Receivers

Serial Number:	CR2205024-RF-S1	Test Date:	2022-06-06
Test Site:	RF	Test Mode:	Scanning
Tester:	Morpheus Shi	Test Result:	Pass

Environmental Conditions:					
Temperature: (℃)	27.8	Relative Humidity: (%)	65	ATM Pressure: (kPa)	100.3

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Signal Analyzer	FSIQ26	831929/006	2021-07-22	2022-07-21
YINSAIGE	Coaxial Cable	SS402	SJ0100003	Each time	N/A
zhuoxiang	Coaxial Cable	SMA-178	211002	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554404	Each time	N/A
Weinschel	Power splitter	1515	RA915	Each time	N/A
Weinschel	Coaxial Attenuators	53-20-34	LN751	Each time	N/A
HP	RF Communications Test Set	8920A	3438A05209	2021-07-22	2022-07-21

** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

Scanning Frequency Range	Test Frequency	Measurement Result (Worst Case)	Limit
MHz	MHz	dB	dB
136-174	824, 836, 849, 869, 881.5, 894	46.25	>38
400-520	824, 836, 849, 869, 881.5, 894	48.95	

===== END OF REPORT =====