



中认信通

CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)



TEST REPORT

Applicant: PO FUNG ELECTRONIC (HK) INTERNATIONAL
GROUP COMPANY LIMITED

Address: Room 1508, 15/F, Office Tower II, Grand Plaza, 625 Nathan Road,
Kowloon, Hong Kong

FCC ID: 2AJGM-UV22R

Product Name: Amateur Radio

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

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

Report Number: CR230633408-00A

Date Of Issue: 2023/7/4

Reviewed By: Calvin Chen

Title: RF Engineer

Approved By: Sun Zhong

Title: Manager

Test Laboratory: China Certification ICT Co., Ltd (Dongguan)

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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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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	CR230633408-00A	Original Report	2023/7/4

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

Product Name:	Amateur Radio
Test Model:	UV-22R
Multiple Models:	BF-22R, UV-22H, UV-22M, UV-22L
Highest Operation Frequency:	520MHz
Rated Input Voltage:	DC 7.4V from battery
Serial Number:	26TE-1
EUT Received Date:	2023/6/13
EUT Received Status:	Good
Note: The Multiple models are electrically identical with the test model. Please refer to the declaration letter for more detail, which was provided by manufacturer.	

Accessory Information:

Accessory Description	Manufacturer	Model	Parameters
Adapter	Fu Jian Baofeng Electronic Co., Ltd	BF-1001000	Input: AC 100-240V~50/60Hz 0.5A Output: DC 10V=1 A

Operation Frequency And Test Channel:

Operation Modes	Operation Frequency Range (MHz)	Test Frequency (MHz)
VHF Receiving	136-174	136.0125, 155, 173.9875
UHF Receiving	400-520	400.0125, 460, 519.9875
Scanning	136-174 400-520	/

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: M1: Charging & Scanning (136-174&400-520) M2: Charging & Receiving (136.0125;155;173.9875; 400.0125; 460;519.9875)
Equipment Modifications:	No
EUT Exercise Software:	No

1.2.2 Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Agilent	MXG Vector Signal Generator	N5182B	MY51350142
PO FUNG	earphone	480	4801

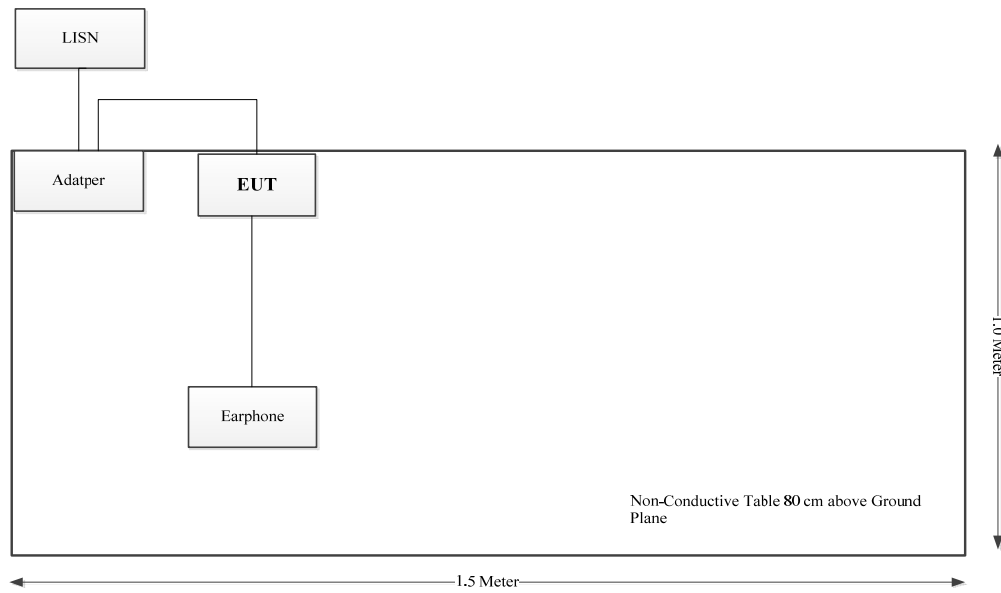
1.2.3 Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
antenna cable	No	No	1.5	antenna	N5182B
adapter cable	No	No	0.9	adapter	charging base
earphone cable	No	No	1	earphone	EUT

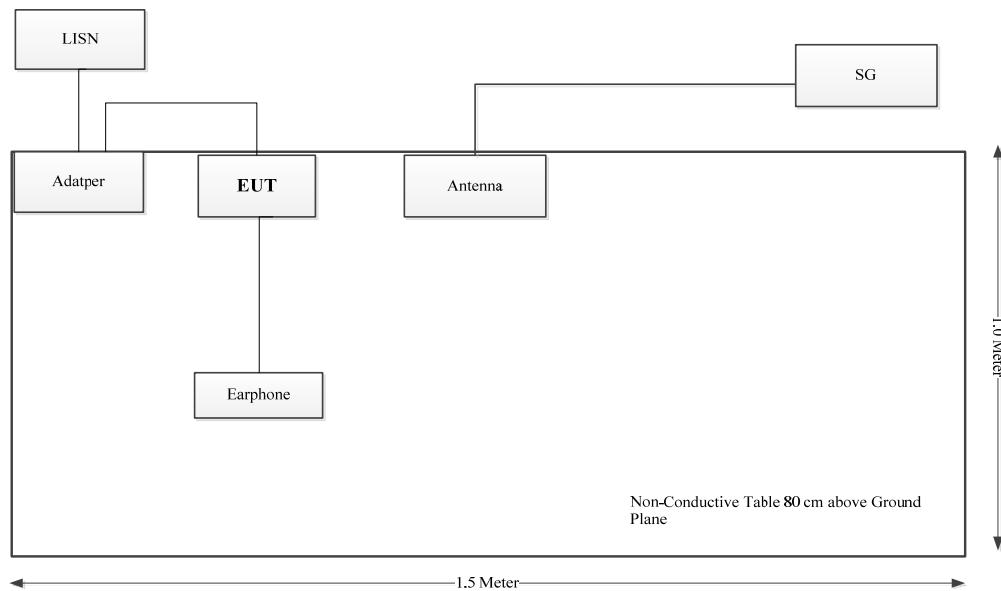
1.2.4 Block Diagram of Test Setup

CE:

M1:

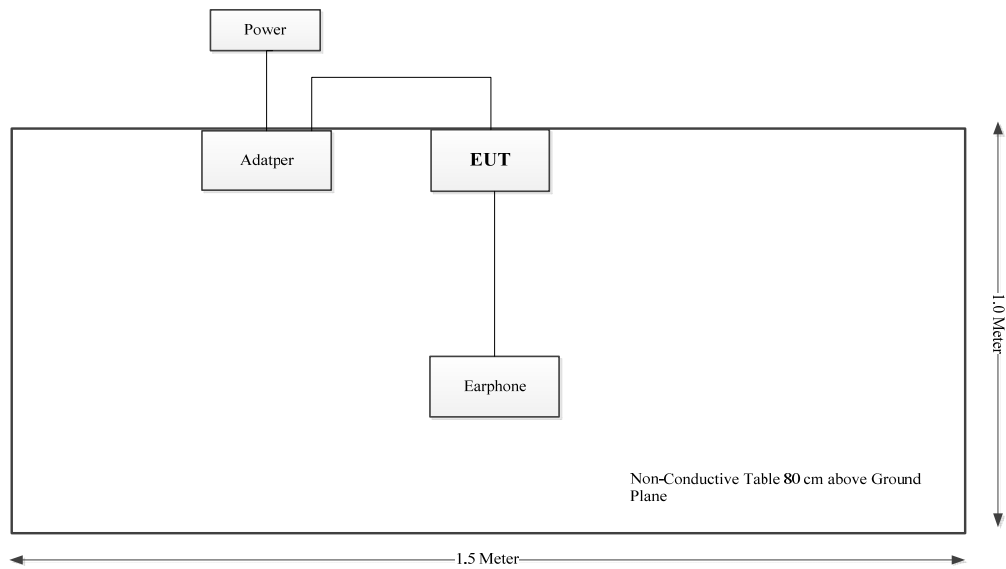


M2:

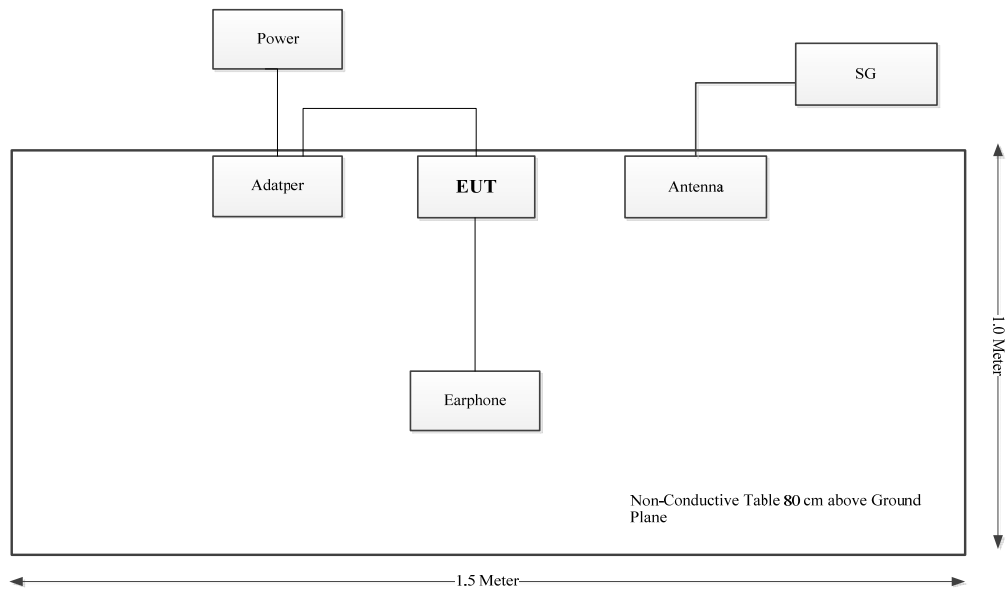


RE:

M1:



M2:



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	$\pm 1^{\circ}\text{C}$
Humidity	$\pm 5\%$
AC Power Lines Conducted Emission	2.8 dB (150 kHz to 30 MHz)

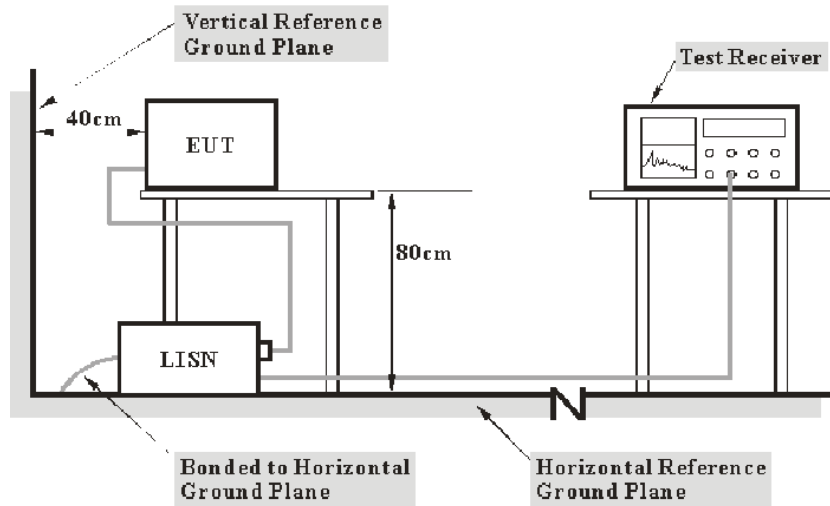
2. SUMMARY OF TEST RESULTS

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 or EUT 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

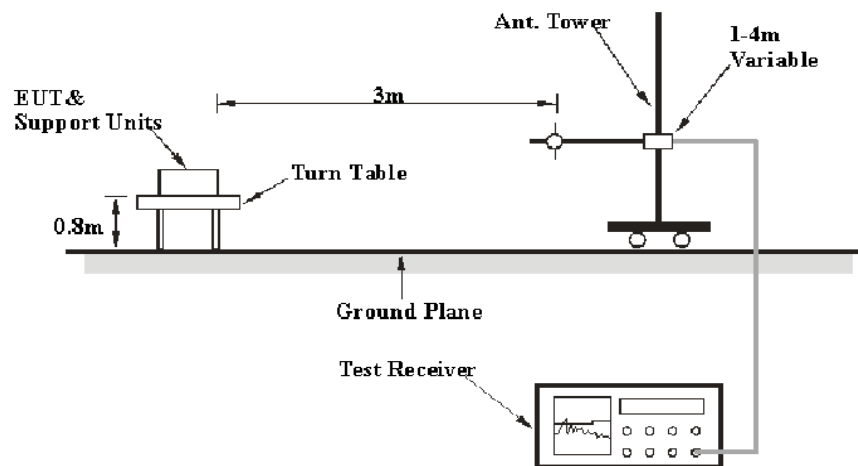
The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

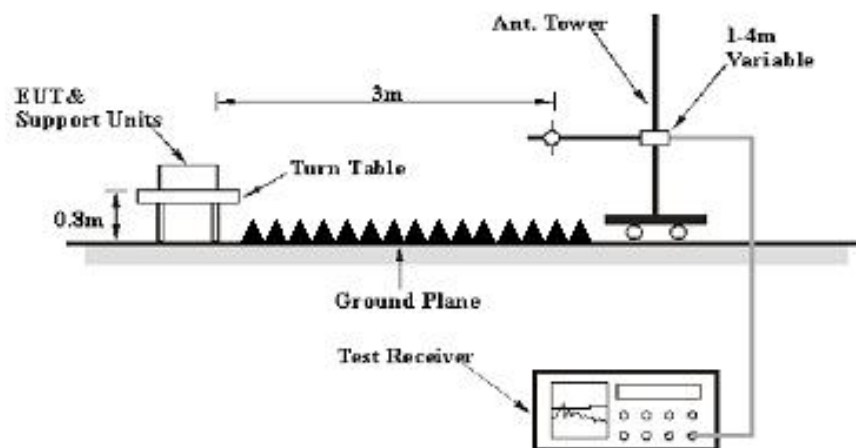
3.2 Radiation Spurious Emissions

3.2.1 EUT Setup

Below 1GHz:



Above 1GHz:



The radiated emission were 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 Equipment Setup

The system was investigated from 30 MHz to 5 GHz.

During the radiated emission test, the test equipment 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	10Hz	/	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.

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

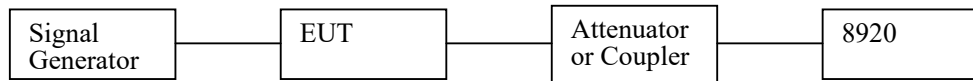
Applicable Standard

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 its 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 its 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:	26TE-1	Test Date:	2023/06/21
Test Site:	CE	Test Mode:	M1,M2
Tester:	David Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.5	Relative Humidity: (%)	62	ATM Pressure: (kPa)	100.8
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101134	2023/03/31	2024/03/30
R&S	EMI Test Receiver	ESR3	102726	2022/07/15	2023/07/14
MICRO-COAX	Coaxial Cable	UTIFLEX	C-0200-01	2022/08/07	2023/08/06
Audix	Test Software	E3	190306 (V9)	N/A	N/A

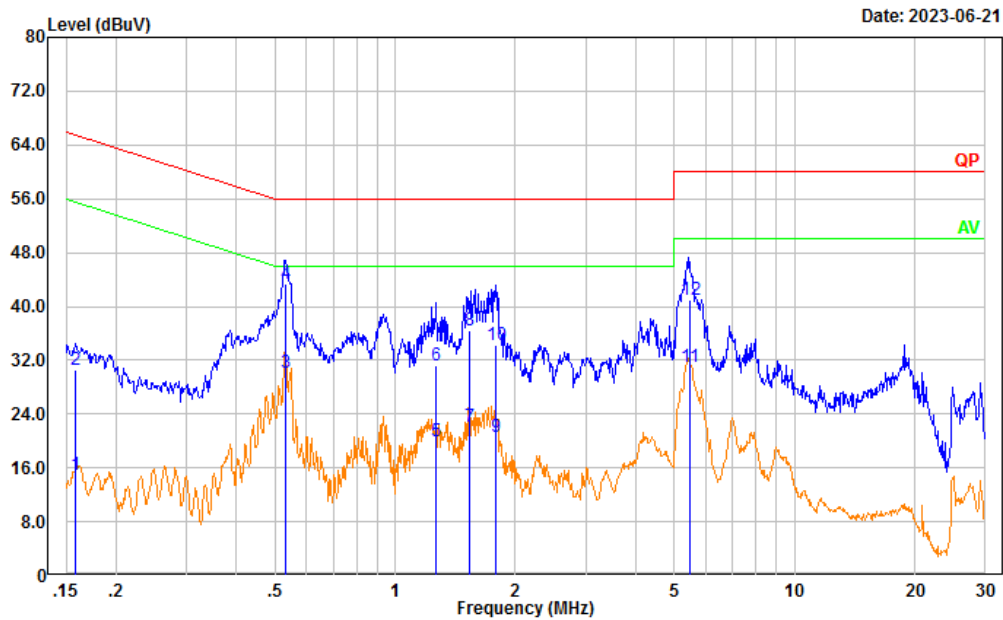
* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Mode: M1

Test Mode: Charging& Scanning

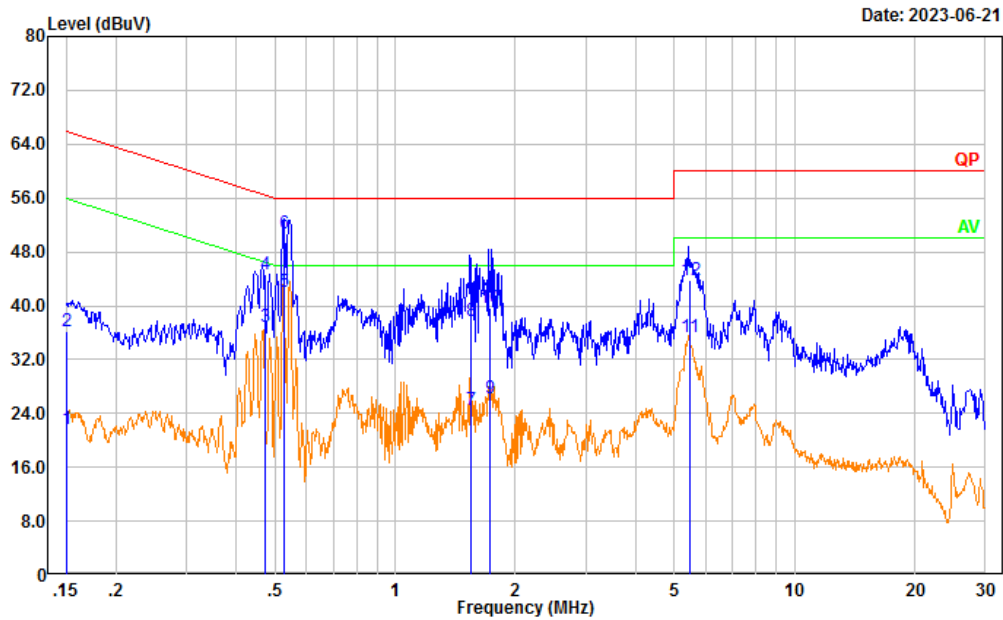
Port: Line

Note:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.159	5.40	9.61	15.01	55.52	40.51	Average
2	0.159	20.86	9.61	30.47	65.52	35.05	QP
3	0.530	20.49	9.61	30.10	46.00	15.90	Average
4	0.530	33.81	9.61	43.42	56.00	12.58	QP
5	1.269	10.39	9.62	20.01	46.00	25.99	Average
6	1.269	21.66	9.62	31.28	56.00	24.72	QP
7	1.537	12.45	9.63	22.08	46.00	23.92	Average
8	1.537	26.73	9.63	36.36	56.00	19.64	QP
9	1.788	11.06	9.63	20.69	46.00	25.31	Average
10	1.788	24.63	9.63	34.26	56.00	21.74	QP
11	5.460	21.32	9.66	30.98	50.00	19.02	Average
12	5.460	31.36	9.66	41.02	60.00	18.98	QP

Test Mode: Charging& Scanning
 Port: neutral
 Note:

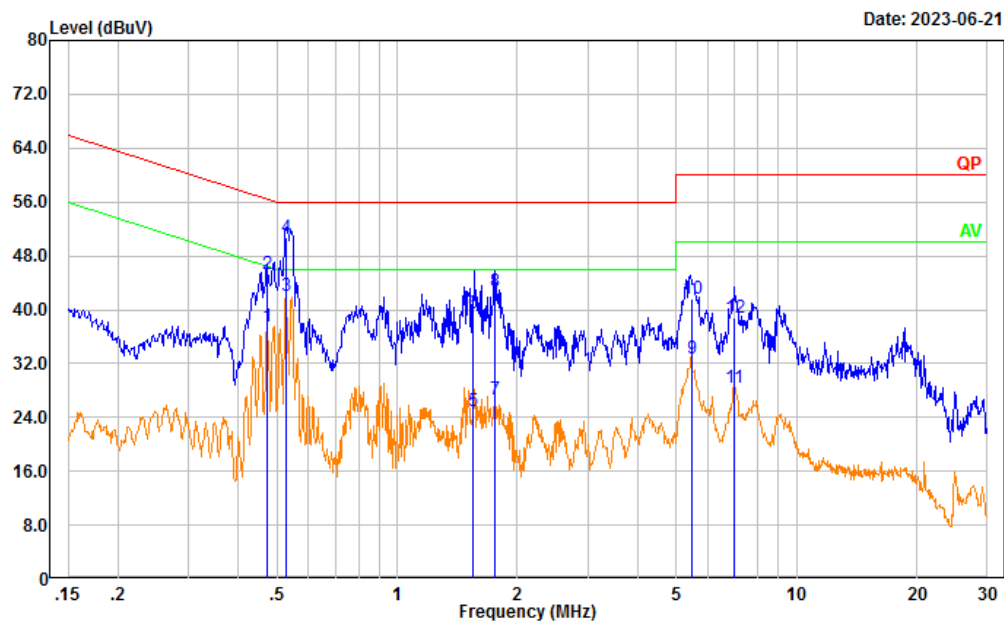


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.151	12.12	9.61	21.73	55.95	34.22	Average
2	0.151	26.54	9.61	36.15	65.95	29.80	QP
3	0.471	27.35	9.61	36.96	46.49	9.53	Average
4	0.471	34.98	9.61	44.59	56.49	11.90	QP
5	0.529	32.50	9.61	42.11	46.00	3.89	Average
6	0.529	41.08	9.61	50.69	56.00	5.31	QP
7	1.547	14.86	9.63	24.49	46.00	21.51	Average
8	1.547	28.18	9.63	37.81	56.00	18.19	QP
9	1.720	16.62	9.63	26.25	46.00	19.75	Average
10	1.720	30.10	9.63	39.73	56.00	16.27	QP
11	5.464	25.69	9.66	35.35	50.00	14.65	Average
12	5.464	34.08	9.66	43.74	60.00	16.26	QP

Test Mode: M2

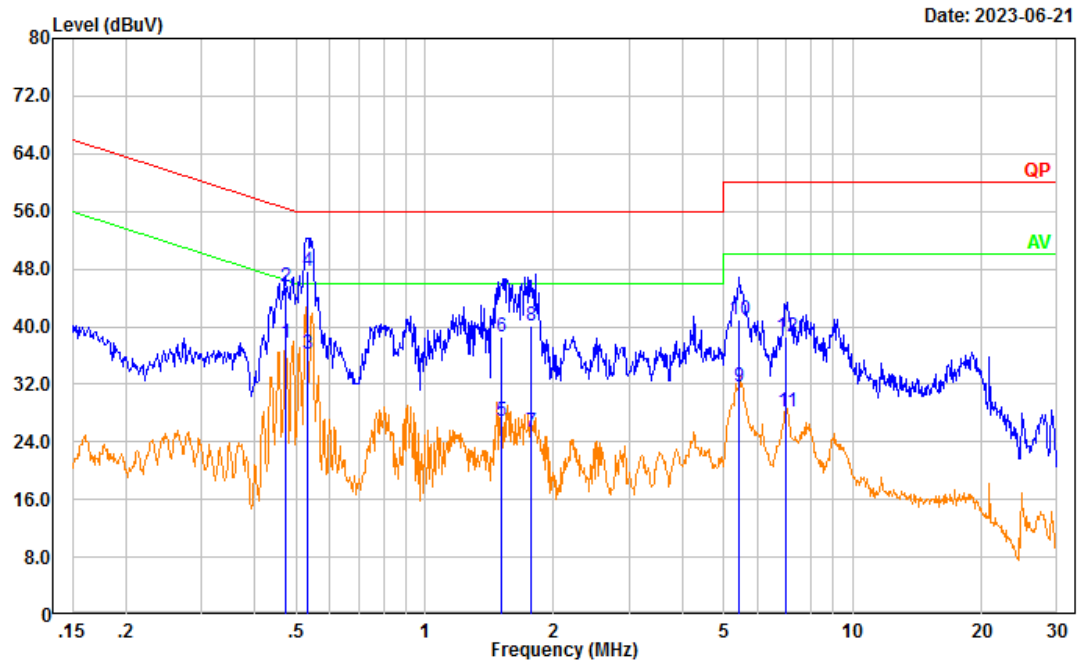
Note: Pre-scan operating frequency at 136.0125/155/173.9875MHz, worst case is operating at 155 MHz.

Test Mode: Charging& Receiving
Port: Line
Note:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.474	28.00	9.61	37.61	46.45	8.84	Average
2	0.474	35.79	9.61	45.40	56.45	11.05	QP
3	0.529	32.48	9.61	42.09	46.00	3.91	Average
4	0.529	41.12	9.61	50.73	56.00	5.27	QP
5	1.549	15.23	9.63	24.86	46.00	21.14	Average
6	1.549	29.90	9.63	39.53	56.00	16.47	QP
7	1.758	16.96	9.63	26.59	46.00	19.41	Average
8	1.758	33.11	9.63	42.74	56.00	13.26	QP
9	5.454	23.18	9.66	32.84	50.00	17.16	Average
10	5.454	31.93	9.66	41.59	60.00	18.41	QP
11	6.978	18.82	9.66	28.48	50.00	21.52	Average
12	6.978	29.09	9.66	38.75	60.00	21.25	QP

Test Mode: Charging& Receiving
Port: neutral
Note:

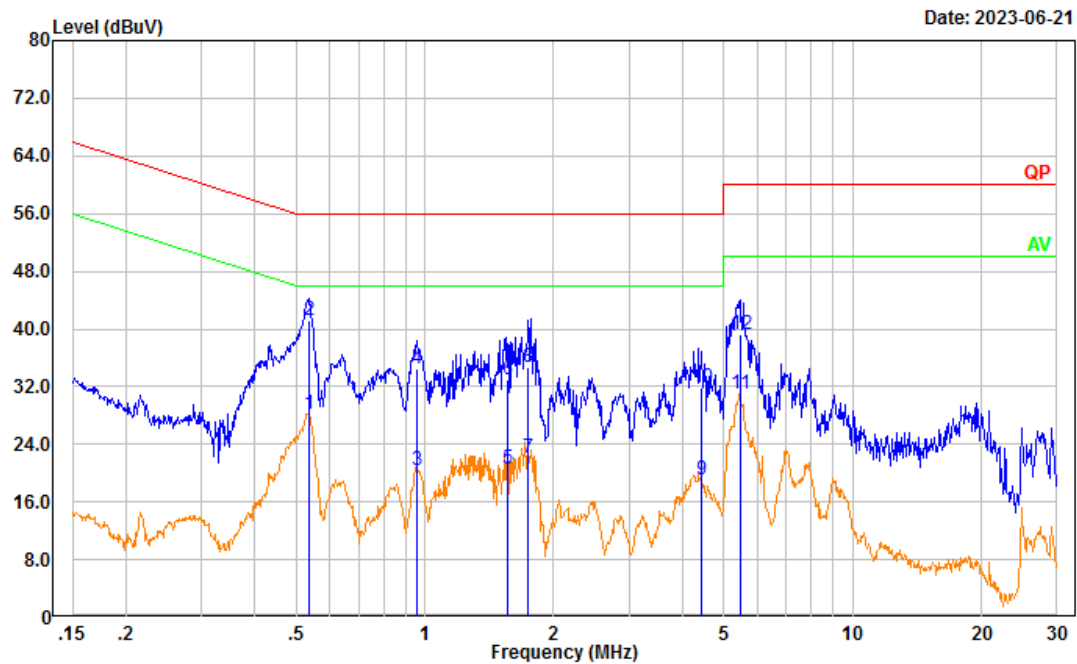


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.473	28.19	9.61	37.80	46.46	8.66	Average
2	0.473	35.92	9.61	45.53	56.46	10.93	QP
3	0.533	26.52	9.61	36.13	46.00	9.87	Average
4	0.533	38.05	9.61	47.66	56.00	8.34	QP
5	1.512	17.27	9.63	26.90	46.00	19.10	Average
6	1.512	28.86	9.63	38.49	56.00	17.51	QP
7	1.770	15.78	9.63	25.41	46.00	20.59	Average
8	1.770	30.49	9.63	40.12	56.00	15.88	QP
9	5.424	22.08	9.66	31.74	50.00	18.26	Average
10	5.424	31.42	9.66	41.08	60.00	18.92	QP
11	7.002	18.50	9.66	28.16	50.00	21.84	Average
12	7.002	29.03	9.66	38.69	60.00	21.31	QP

Test Mode: M2

Note: Pre-scan operating frequency at 400.0125/460/519.9875 MHz, worst case is operating at 460 MHz.

Test Mode: Charging& Receiving
Port: Line
Note:

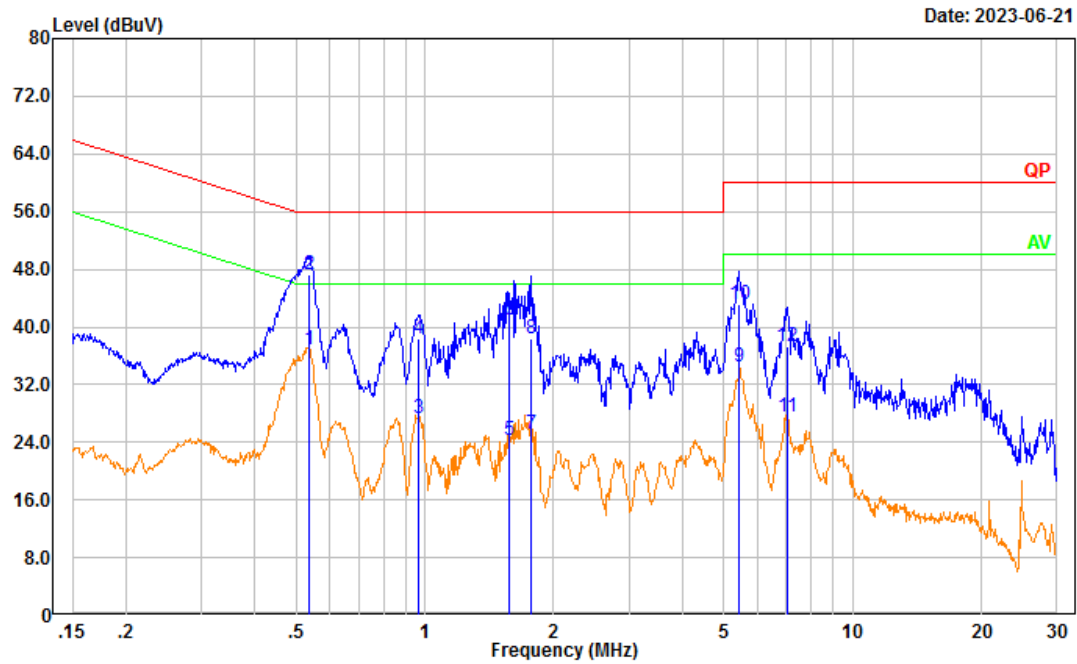


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.537	18.48	9.61	28.09	46.00	17.91	Average
2	0.537	31.56	9.61	41.17	56.00	14.83	QP
3	0.957	10.80	9.62	20.42	46.00	25.58	Average
4	0.957	24.75	9.62	34.37	56.00	21.63	QP
5	1.555	10.94	9.63	20.57	46.00	25.43	Average
6	1.555	23.30	9.63	32.93	56.00	23.07	QP
7	1.739	12.56	9.63	22.19	46.00	23.81	Average
8	1.739	24.96	9.63	34.59	56.00	21.41	QP
9	4.417	9.49	9.65	19.14	46.00	26.86	Average
10	4.417	22.26	9.65	31.91	56.00	24.09	QP
11	5.466	21.36	9.66	31.02	50.00	18.98	Average
12	5.466	29.65	9.66	39.31	60.00	20.69	QP

Test Mode: Charging& Receiving

Port: neutral

Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.535	27.27	9.61	36.88	46.00	9.12	Average
2	0.535	37.76	9.61	47.37	56.00	8.63	QP
3	0.966	17.80	9.62	27.42	46.00	18.58	Average
4	0.966	28.75	9.62	38.37	56.00	17.63	QP
5	1.577	14.74	9.63	24.37	46.00	21.63	Average
6	1.577	31.33	9.63	40.96	56.00	15.04	QP
7	1.770	15.62	9.63	25.25	46.00	20.75	Average
8	1.770	28.75	9.63	38.38	56.00	17.62	QP
9	5.442	24.77	9.66	34.43	50.00	15.57	Average
10	5.442	33.46	9.66	43.12	60.00	16.88	QP
11	7.008	17.91	9.66	27.57	50.00	22.43	Average
12	7.008	27.54	9.66	37.20	60.00	22.80	QP

4.2 Radiation Spurious Emissions

Serial Number:	26TE-1	Test Date:	2023/06/20~2023/06/21
Test Site:	966-1/966-2	Test Mode:	M1,M2
Tester:	Vic Du, Mack Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	23.2~27.2	Relative Humidity: (%)	58~68	ATM Pressure: (kPa)	100.1~100.5
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Test Equipment List and Details:

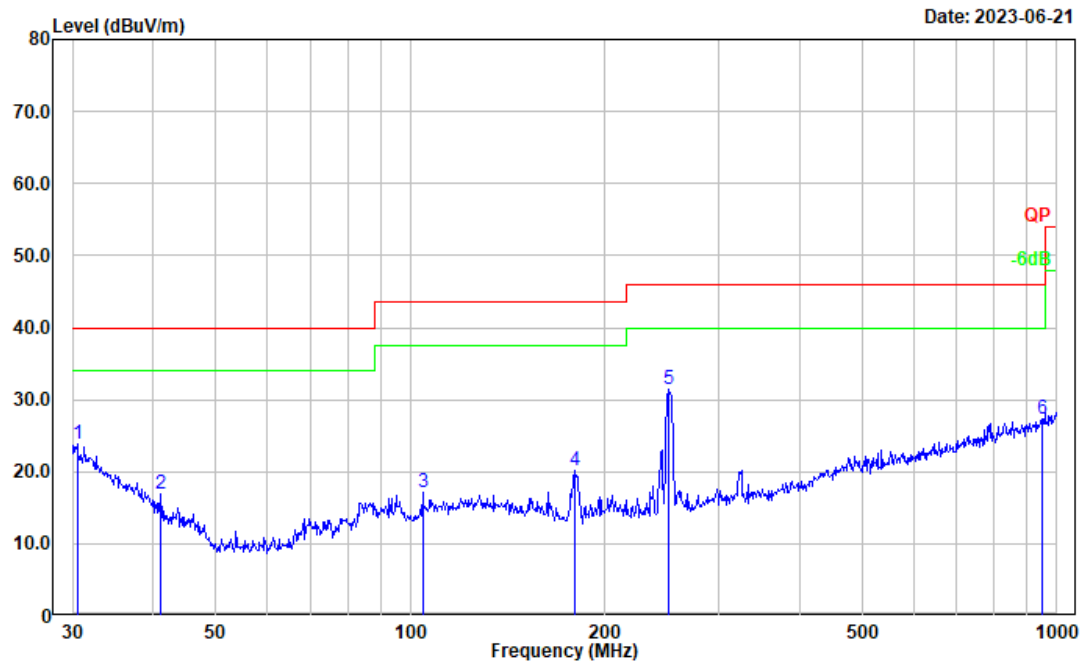
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Antenna	JB6	A082520-5	2020/10/19	2023/10/18
R&S	EMI Test Receiver	ESR3	102724	2022/07/15	2023/07/14
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0470-02	2022/07/17	2023/07/16
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0780-01	2022/07/17	2023/07/16
Sonoma	Amplifier	310N	186165	2022/07/17	2023/07/16
Audix	Test Software	E3	201021 (V9)	N/A	N/A
ETS-Lindgren	Horn Antenna	3115	9912-5985	2020/10/13	2023/10/12
R&S	Spectrum Analyzer	FSV40	101591	2022/07/15	2023/07/14
MICRO-COAX	Coaxial Cable	UFA210A-1-1200-70U300	217423-008	2022/08/07	2023/08/06
MICRO-COAX	Coaxial Cable	UFA210A-1-2362-300300	235780-001	2022/08/07	2023/08/06
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2022/11/09	2023/11/08

* 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:

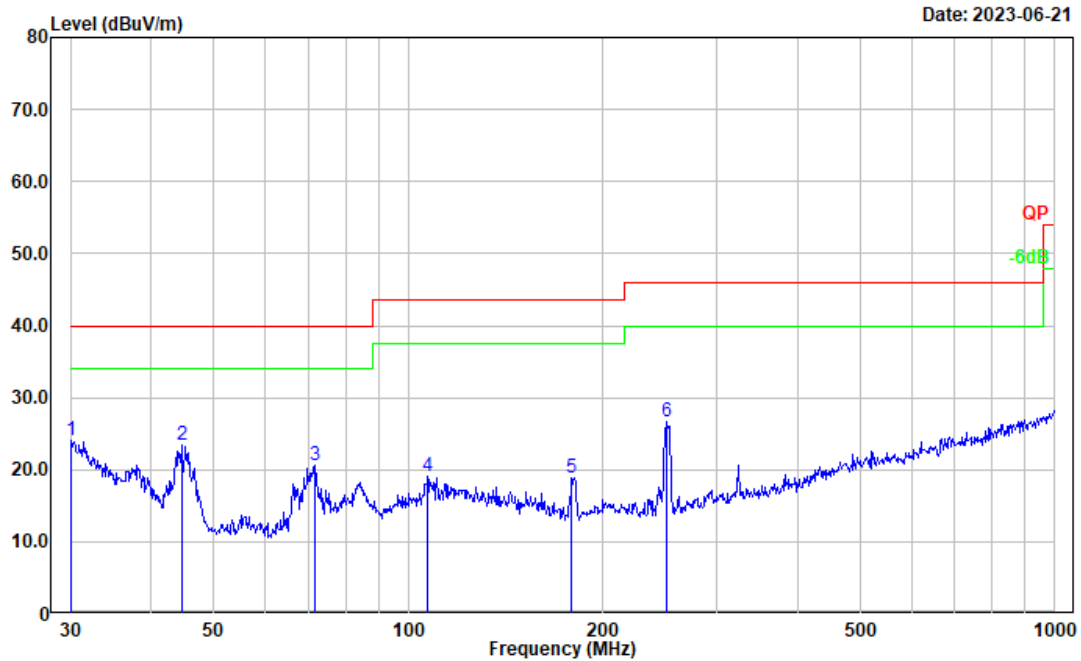
Test Mode: M1

Test Mode: Charging& Scanning
Polarization: horizontal
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.531	27.81	-4.00	23.81	40.00	16.19	Peak
2	40.988	28.82	-11.90	16.92	40.00	23.08	Peak
3	104.536	30.47	-13.44	17.03	43.50	26.47	Peak
4	180.017	33.74	-13.63	20.11	43.50	23.39	Peak
5	251.180	44.57	-13.03	31.54	46.00	14.46	Peak
6	948.761	27.53	-0.21	27.32	46.00	18.68	Peak

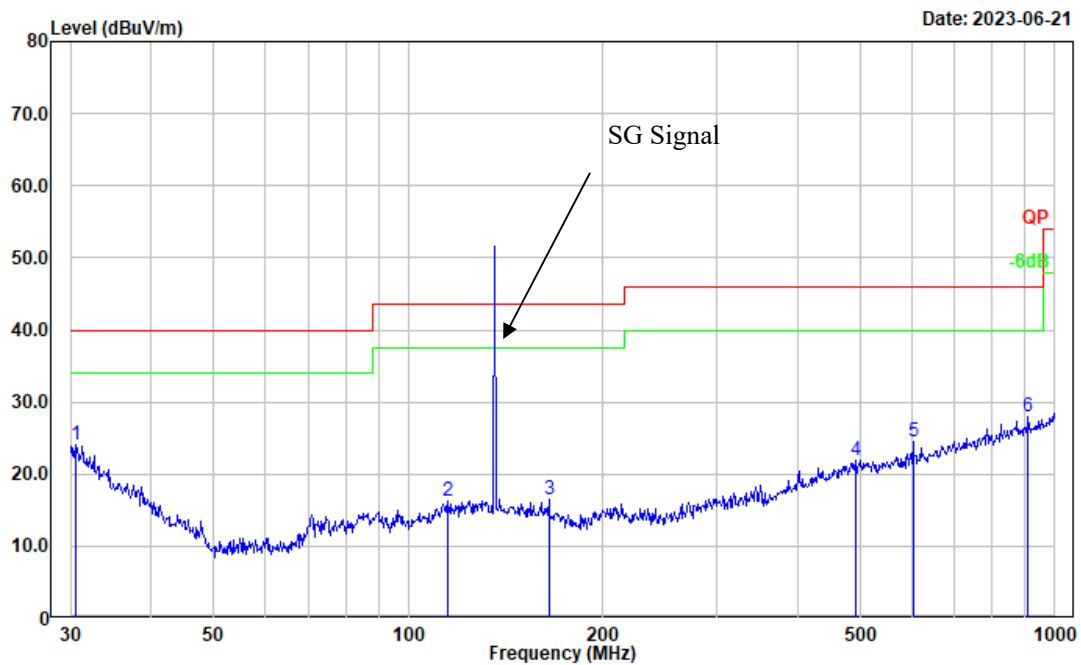
Test Mode: Charging& Scanning
Polarization: vertical
Note:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	30.000	27.66	-3.60	24.06	40.00	15.94	Peak
2	44.587	37.36	-14.00	23.36	40.00	16.64	Peak
3	71.832	37.19	-16.66	20.53	40.00	19.47	Peak
4	107.134	31.97	-12.87	19.10	43.50	24.40	Peak
5	178.758	32.41	-13.55	18.86	43.50	24.64	Peak
6	251.180	39.60	-13.03	26.57	46.00	19.43	Peak

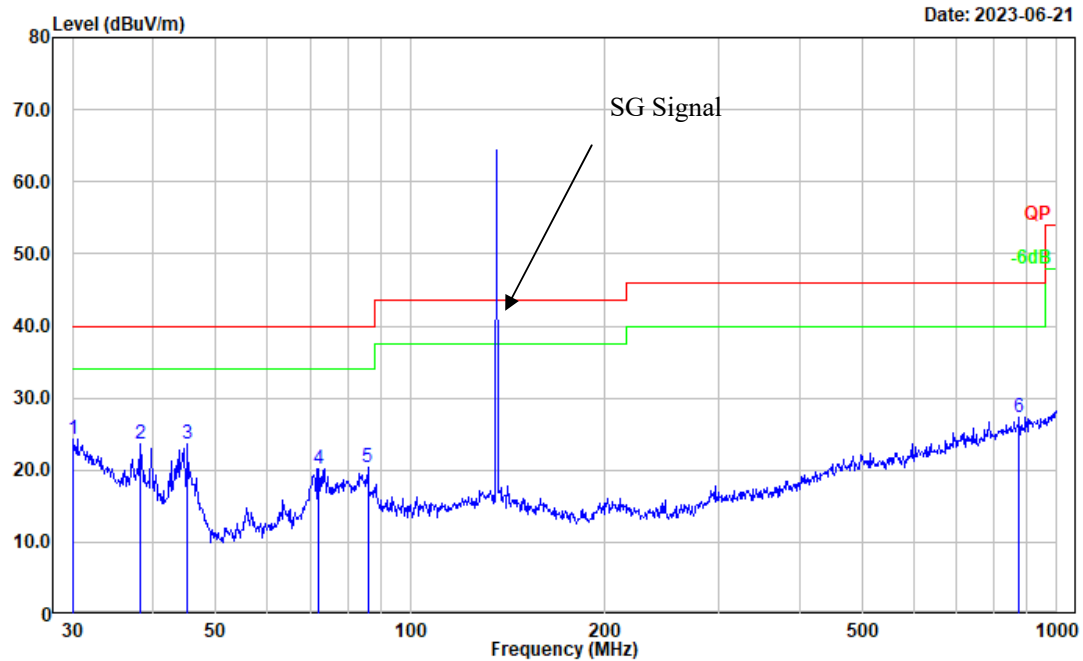
Test Mode: M2 (RX 136.0125MHz)

Test Mode: Charging& Receiving
Polarization: horizontal
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.531	28.01	-4.00	24.01	40.00	15.99	Peak
2	115.321	28.08	-11.87	16.21	43.50	27.29	Peak
3	164.908	28.91	-12.50	16.41	43.50	27.09	Peak
4	490.745	28.15	-6.20	21.95	46.00	24.05	Peak
5	603.539	29.41	-4.91	24.50	46.00	21.50	Peak
6	909.667	28.74	-0.68	28.06	46.00	17.94	Peak

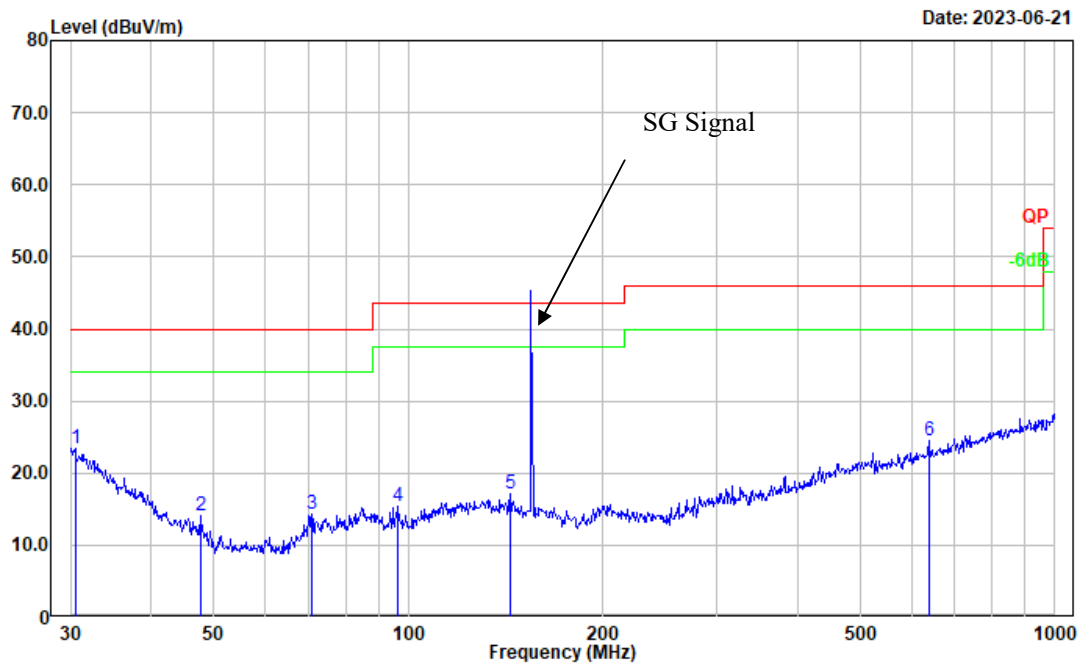
Test Mode: Charging& Receiving
Polarization: vertical
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.000	27.97	-3.60	24.37	40.00	15.63	Peak
2	38.212	33.54	-9.91	23.63	40.00	16.37	Peak
3	45.217	38.02	-14.36	23.66	40.00	16.34	Peak
4	72.084	36.80	-16.69	20.11	40.00	19.89	Peak
5	85.898	37.46	-17.15	20.31	40.00	19.69	Peak
6	875.247	28.57	-1.18	27.39	46.00	18.61	Peak

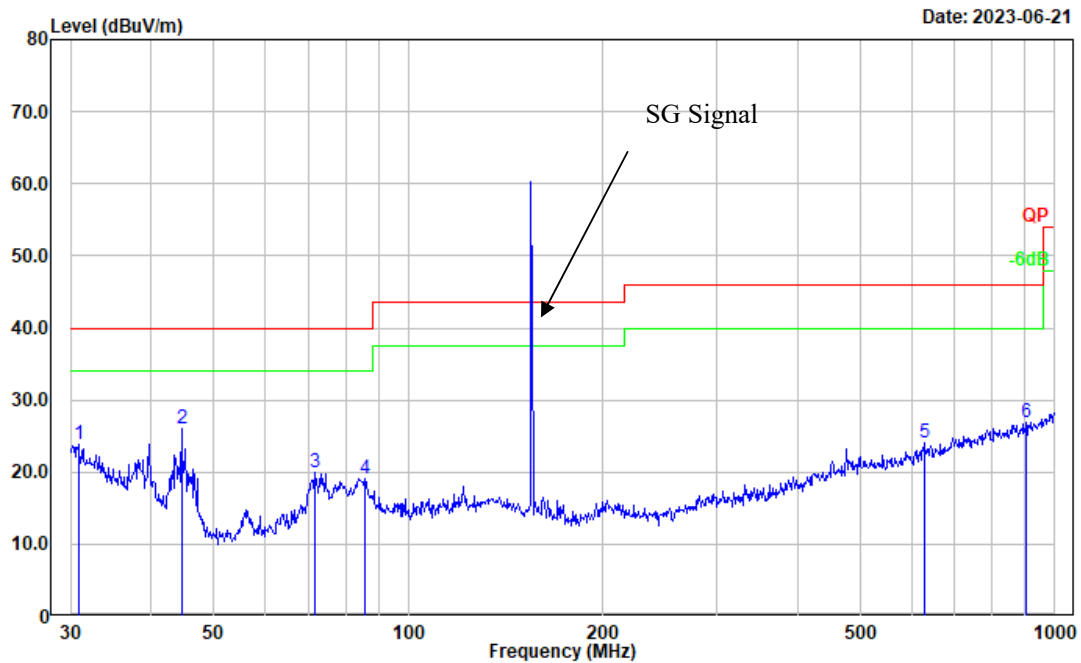
Test Mode: M2 (RX 155MHz)

Test Mode: Charging& Receiving
Polarization: horizontal
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.531	27.45	-4.00	23.45	40.00	16.55	Peak
2	47.659	29.94	-15.83	14.11	40.00	25.89	Peak
3	70.832	30.85	-16.55	14.30	40.00	25.70	Peak
4	96.436	30.72	-15.23	15.49	43.50	28.01	Peak
5	143.830	29.01	-11.96	17.05	43.50	26.45	Peak
6	638.369	28.93	-4.41	24.52	46.00	21.48	Peak

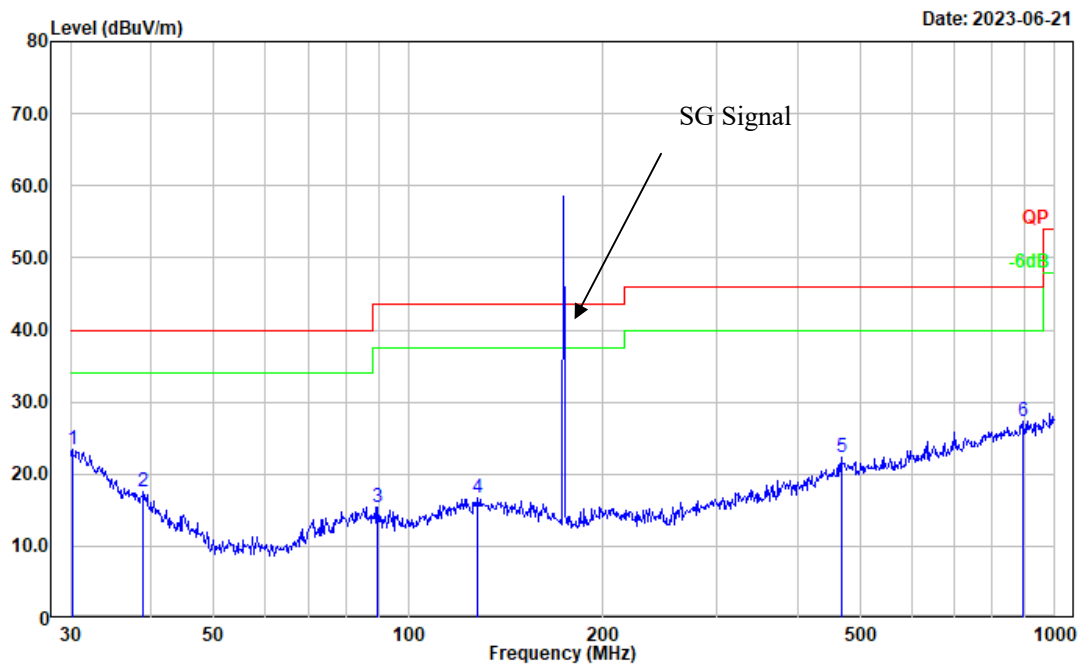
Test Mode: Charging& Receiving
Polarization: vertical
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.853	28.07	-4.26	23.81	40.00	16.19	Peak
2	44.587	39.96	-14.00	25.96	40.00	14.04	Peak
3	71.832	36.64	-16.66	19.98	40.00	20.02	Peak
4	85.598	36.25	-17.15	19.10	40.00	20.90	Peak
5	627.274	28.68	-4.62	24.06	46.00	21.94	Peak
6	903.309	27.68	-0.88	26.80	46.00	19.20	Peak

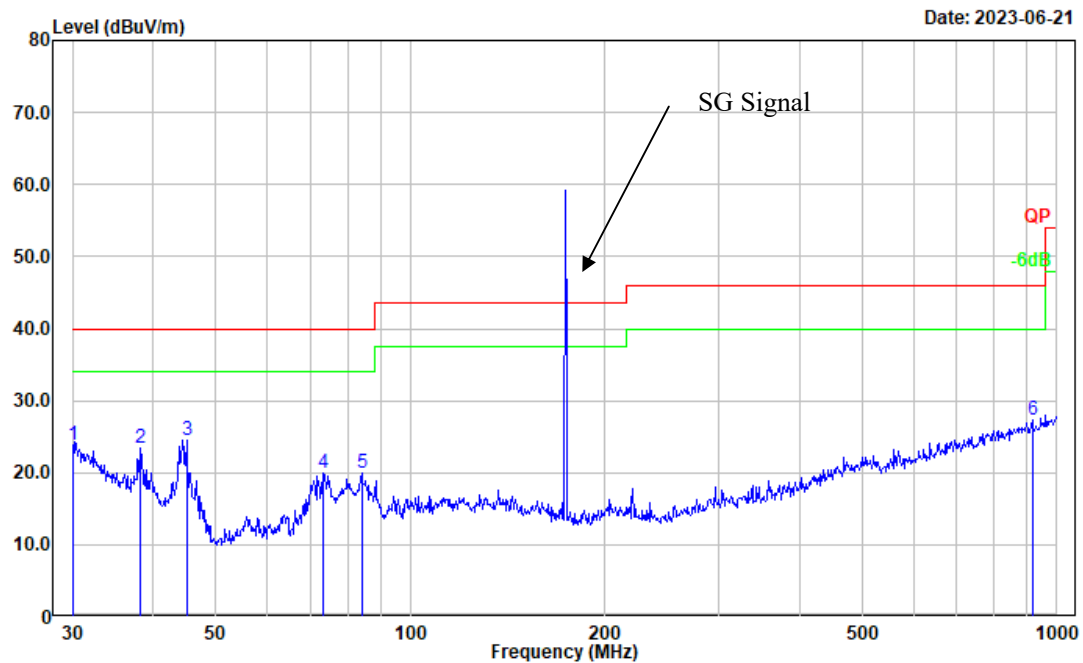
Test Mode: M2 (RX 173.9875 MHz)

Test Mode: Charging& Receiving
Polarization: horizontal
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.211	27.18	-3.76	23.42	40.00	16.58	Peak
2	38.888	27.94	-10.43	17.51	40.00	22.49	Peak
3	89.590	32.41	-16.96	15.45	43.50	28.05	Peak
4	128.113	27.85	-11.26	16.59	43.50	26.91	Peak
5	467.235	28.69	-6.41	22.28	46.00	23.72	Peak
6	893.857	28.51	-1.09	27.42	46.00	18.58	Peak

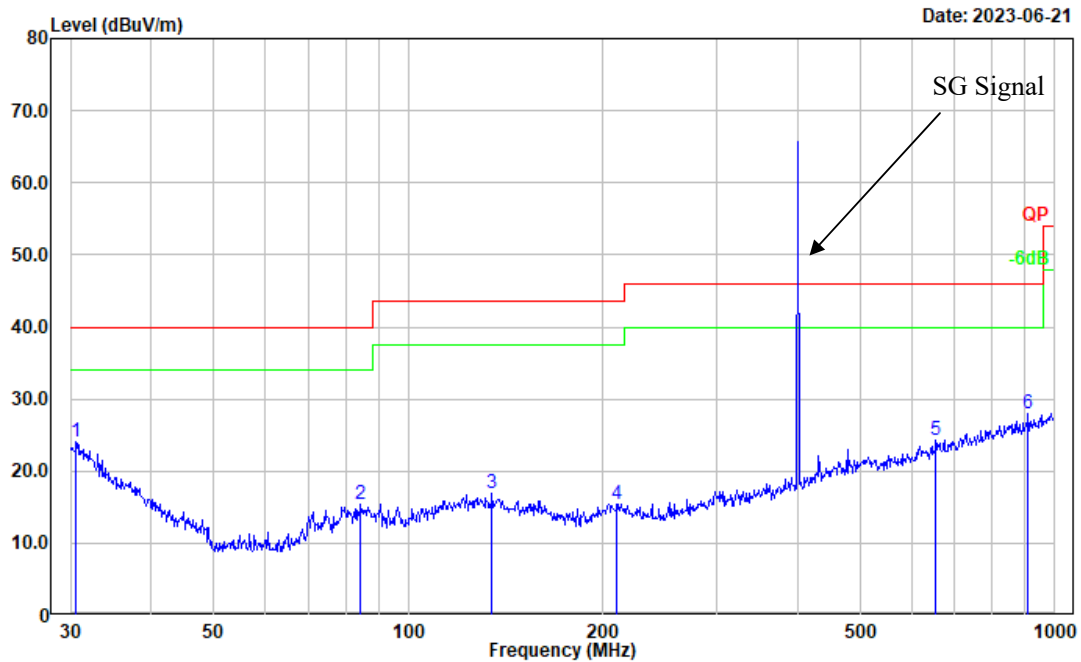
Test Mode: Charging& Receiving
Polarization: vertical
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.000	27.43	-3.60	23.83	40.00	16.17	Peak
2	38.212	33.34	-9.91	23.43	40.00	16.57	Peak
3	45.058	38.65	-14.25	24.40	40.00	15.60	Peak
4	73.103	36.75	-16.75	20.00	40.00	20.00	Peak
5	84.110	37.11	-17.23	19.88	40.00	20.12	Peak
6	916.069	28.03	-0.67	27.36	46.00	18.64	Peak

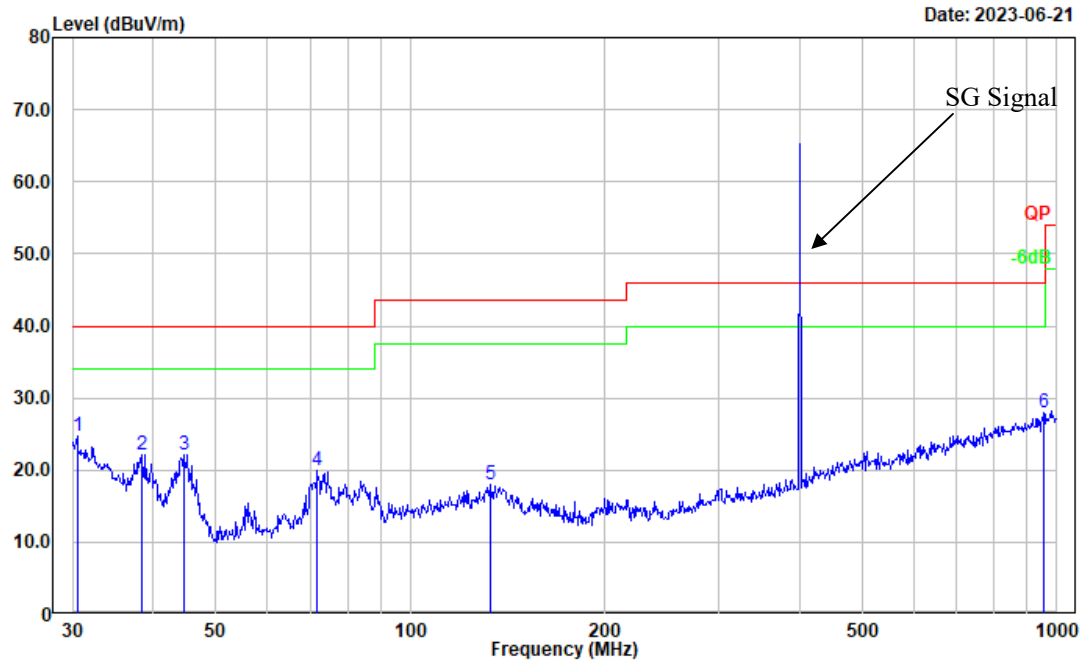
Test Mode: M2 (RX 400.0125MHz)

Test Mode: Charging& Receiving
Polarization: horizontal
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.638	28.09	-4.09	24.00	40.00	16.00	Peak
2	84.405	32.70	-17.22	15.48	40.00	24.52	Peak
3	134.559	28.44	-11.57	16.87	43.50	26.63	Peak
4	210.048	27.89	-12.47	15.42	43.50	28.08	Peak
5	654.232	28.59	-4.21	24.38	46.00	21.62	Peak
6	909.667	28.54	-0.68	27.86	46.00	18.14	Peak

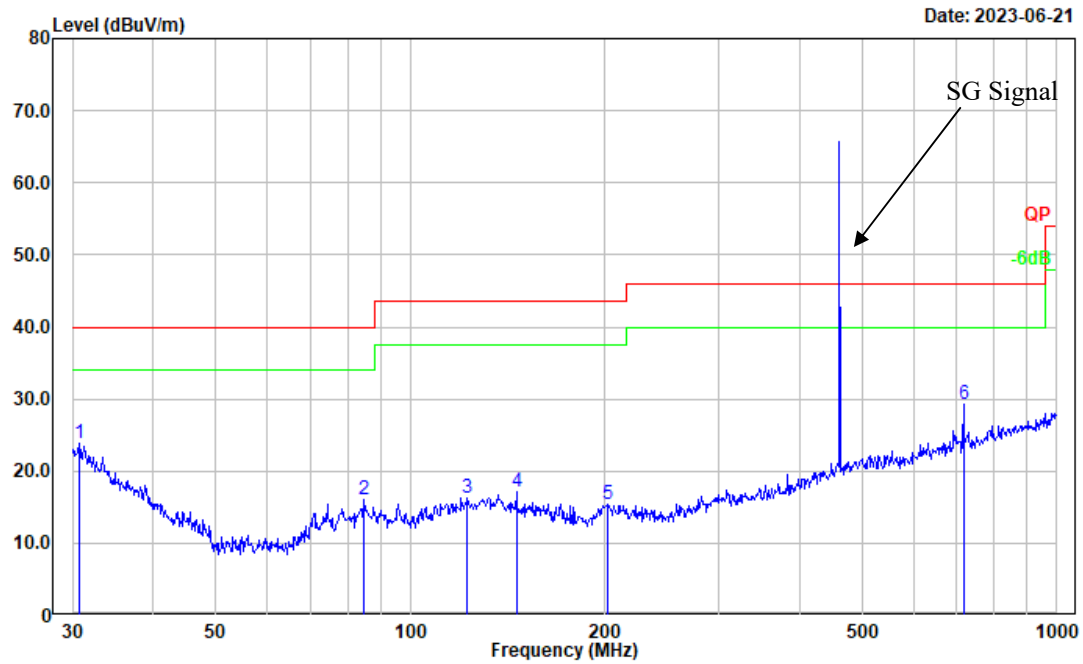
Test Mode: Charging& Receiving
Polarization: vertical
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.531	28.67	-4.00	24.67	40.00	15.33	Peak
2	38.346	32.18	-10.00	22.18	40.00	17.82	Peak
3	44.743	36.19	-14.08	22.11	40.00	17.89	Peak
4	71.832	36.53	-16.66	19.87	40.00	20.13	Peak
5	132.685	29.53	-11.48	18.05	43.50	25.45	Peak
6	952.094	28.12	-0.12	28.00	46.00	18.00	Peak

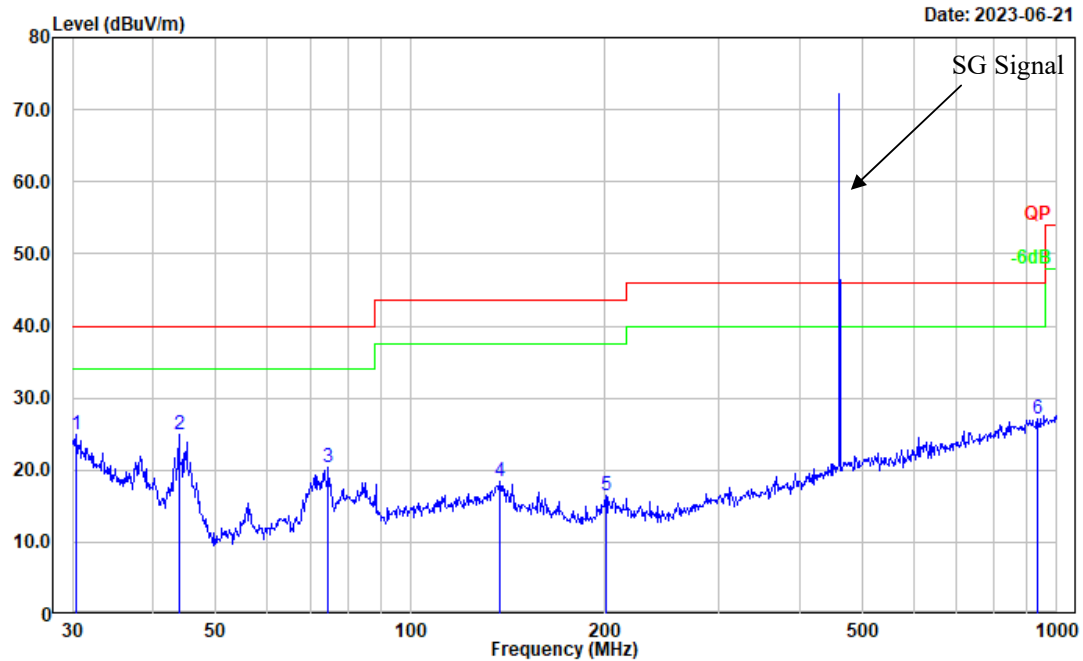
Test Mode: M2 (RX 460MHz)

Test Mode: Charging& Receiving
Polarization: horizontal
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.745	28.00	-4.17	23.83	40.00	16.17	Peak
2	84.702	33.33	-17.20	16.13	40.00	23.87	Peak
3	122.404	27.73	-11.41	16.32	43.50	27.18	Peak
4	145.861	29.10	-11.97	17.13	43.50	26.37	Peak
5	202.100	27.61	-12.28	15.33	43.50	28.17	Peak
6	716.682	32.57	-3.35	29.22	46.00	16.78	Peak

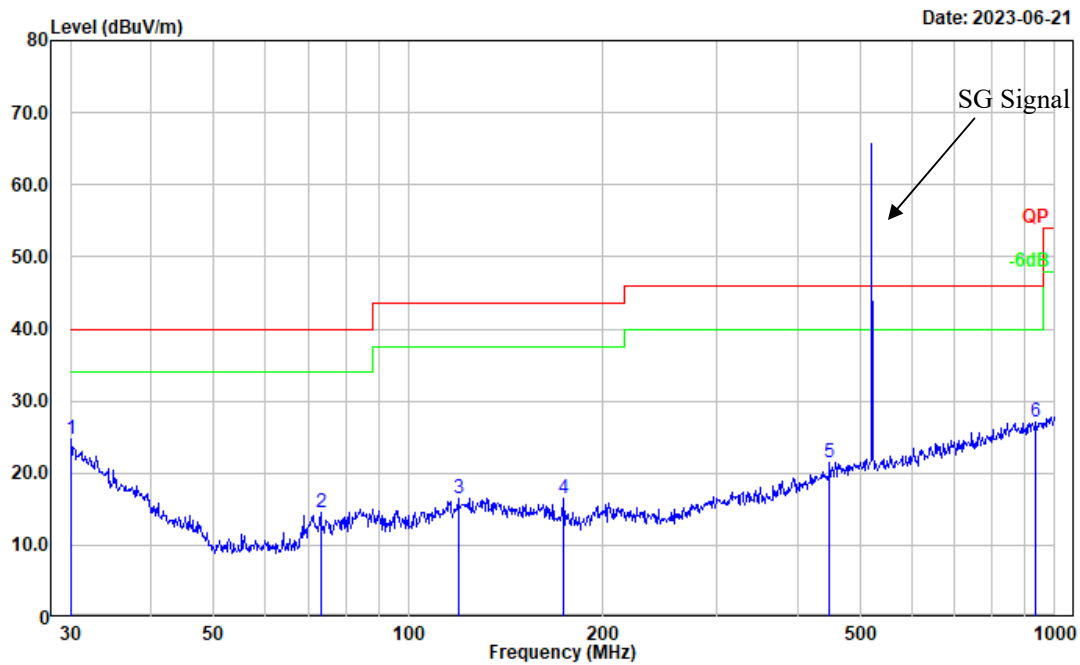
Test Mode: Charging& Receiving
Polarization: vertical
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.424	28.80	-3.93	24.87	40.00	15.13	Peak
2	43.812	38.39	-13.56	24.83	40.00	15.17	Peak
3	74.657	37.37	-16.92	20.45	40.00	19.55	Peak
4	137.420	30.20	-11.75	18.45	43.50	25.05	Peak
5	200.688	28.60	-12.23	16.37	43.50	27.13	Peak
6	932.272	27.73	-0.55	27.18	46.00	18.82	Peak

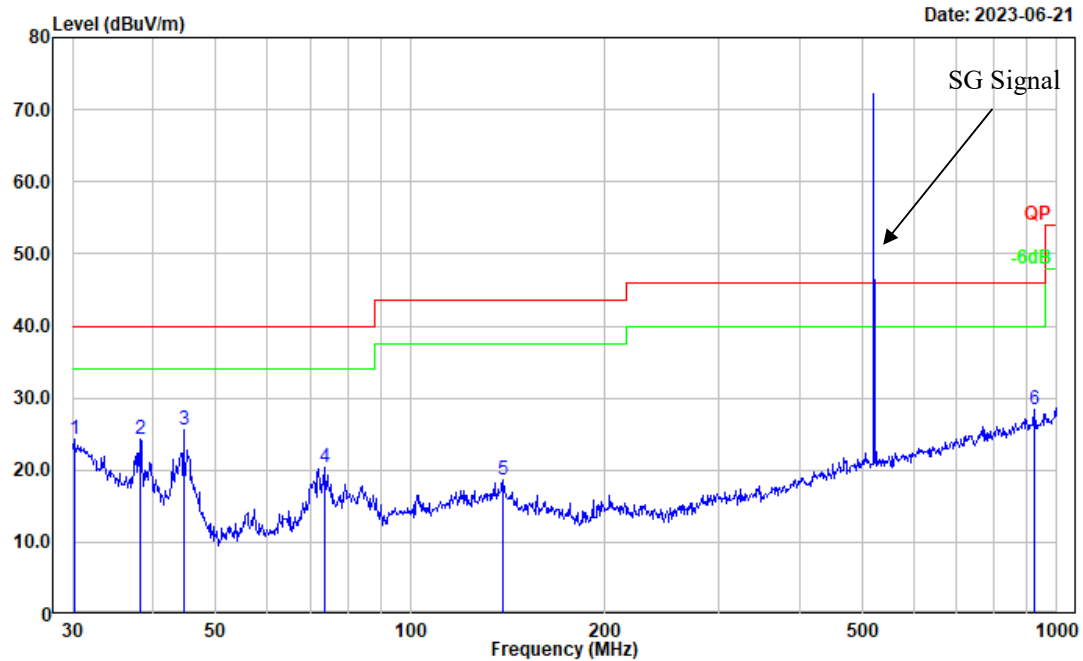
Test Mode: M2 (RX 519.9875MHz)

Test Mode: Charging& Receiving
Polarization: horizontal
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.000	28.28	-3.60	24.68	40.00	15.32	Peak
2	73.103	31.25	-16.75	14.50	40.00	25.50	Peak
3	119.436	27.91	-11.49	16.42	43.50	27.08	Peak
4	173.814	29.77	-13.19	16.58	43.50	26.92	Peak
5	447.982	28.41	-7.02	21.39	46.00	24.61	Peak
6	935.546	27.60	-0.50	27.10	46.00	18.90	Peak

Test Mode: Charging& Receiving
Polarization: vertical
Note:

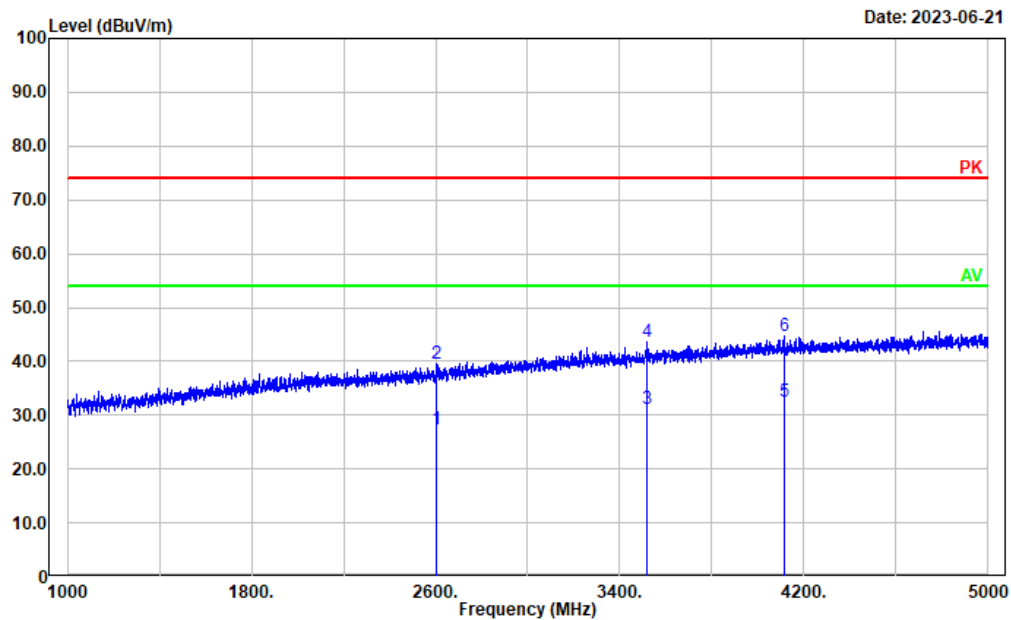


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.211	27.98	-3.76	24.22	40.00	15.78	Peak
2	38.212	34.25	-9.91	24.34	40.00	15.66	Peak
3	44.587	39.57	-14.00	25.57	40.00	14.43	Peak
4	73.617	37.10	-16.83	20.27	40.00	19.73	Peak
5	139.361	30.37	-11.83	18.54	43.50	24.96	Peak
6	922.516	29.11	-0.66	28.45	46.00	17.55	Peak

2) Above 1GHz

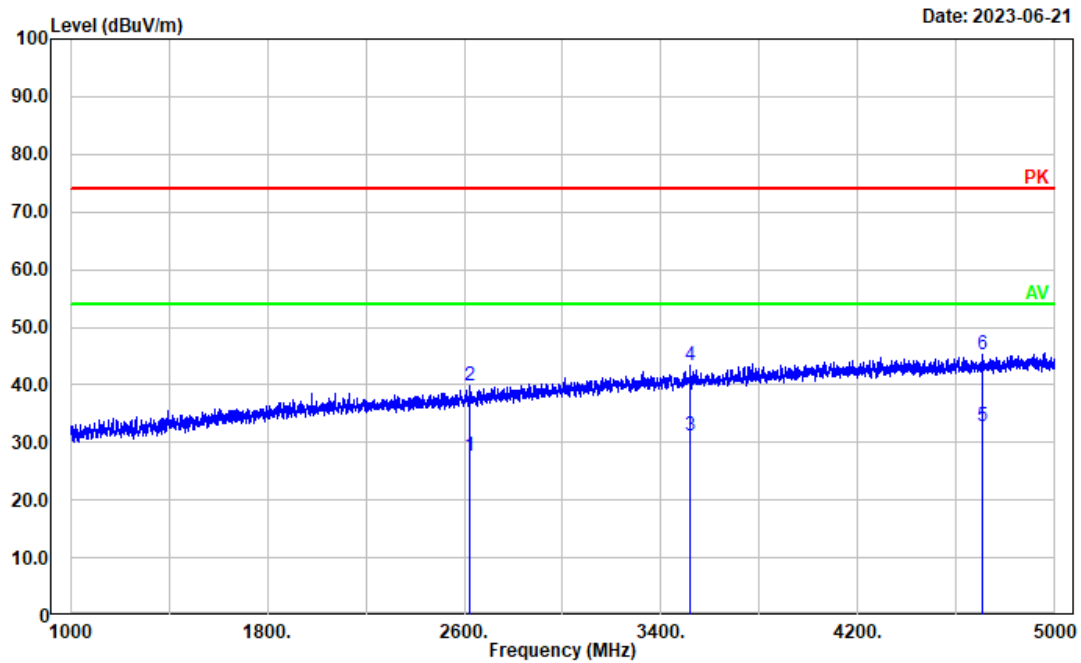
Test Mode: M1

Test Mode: Charging& Scanning
Polarization: horizontal
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	2605.121	23.15	4.26	27.41	54.00	26.59	Average
2	2605.121	35.30	4.26	39.56	74.00	34.44	Peak
3	3519.704	23.42	7.69	31.11	54.00	22.89	Average
4	3519.704	35.83	7.69	43.52	74.00	30.48	Peak
5	4111.822	23.09	9.55	32.64	54.00	21.36	Average
6	4111.822	35.18	9.55	44.73	74.00	29.27	Peak

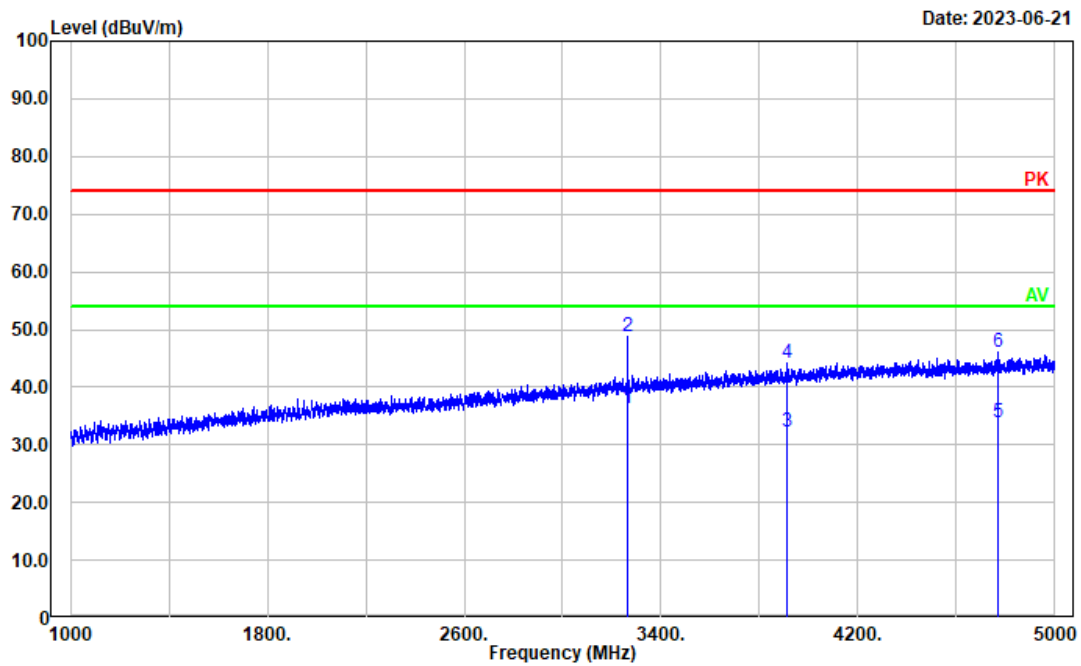
Test Mode: Charging& Scanning
Polarization: vertical
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	2624.325	23.31	4.34	27.65	54.00	26.35	Average
2	2624.325	35.62	4.34	39.96	74.00	34.04	Peak
3	3520.504	23.33	7.70	31.03	54.00	22.97	Average
4	3520.504	35.66	7.70	43.36	74.00	30.64	Peak
5	4704.741	22.30	10.53	32.83	54.00	21.17	Average
6	4704.741	34.60	10.53	45.13	74.00	28.87	Peak

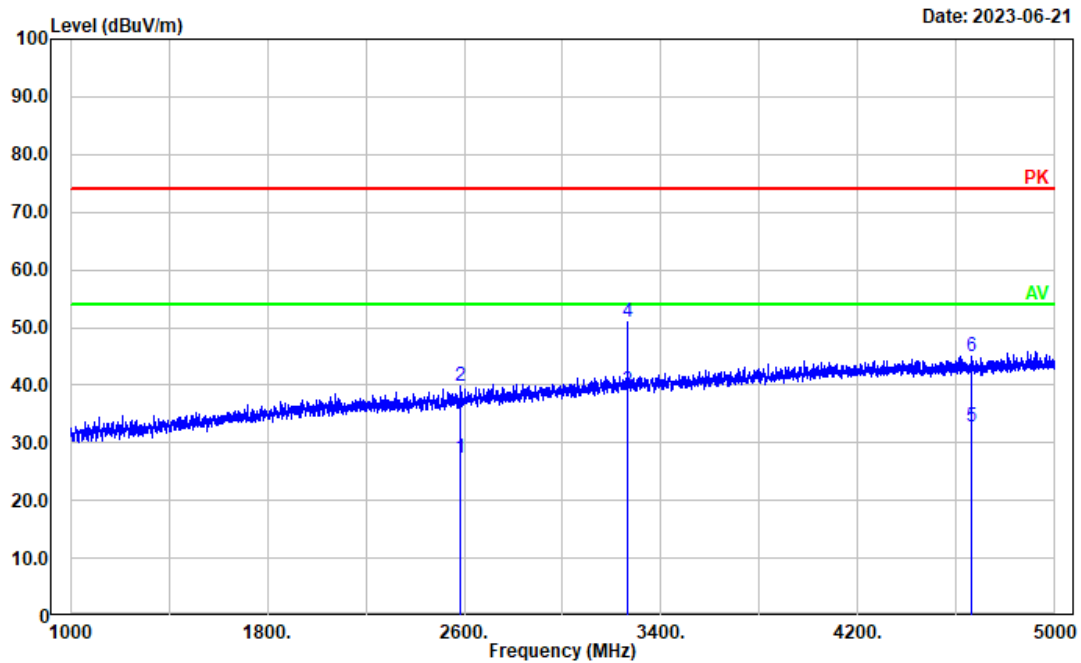
Test Mode: M2 (RX 136.0125MHz)

Test Mode: Charging& Receiving
Polarization: horizontal
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBUV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	3264.453	29.43	6.94	36.37	54.00	17.63	Average
2	3264.453	41.87	6.94	48.81	74.00	25.19	Peak
3	3913.383	23.08	9.07	32.15	54.00	21.85	Average
4	3913.383	35.17	9.07	44.24	74.00	29.76	Peak
5	4766.353	23.19	10.78	33.97	54.00	20.03	Average
6	4766.353	35.39	10.78	46.17	74.00	27.83	Peak

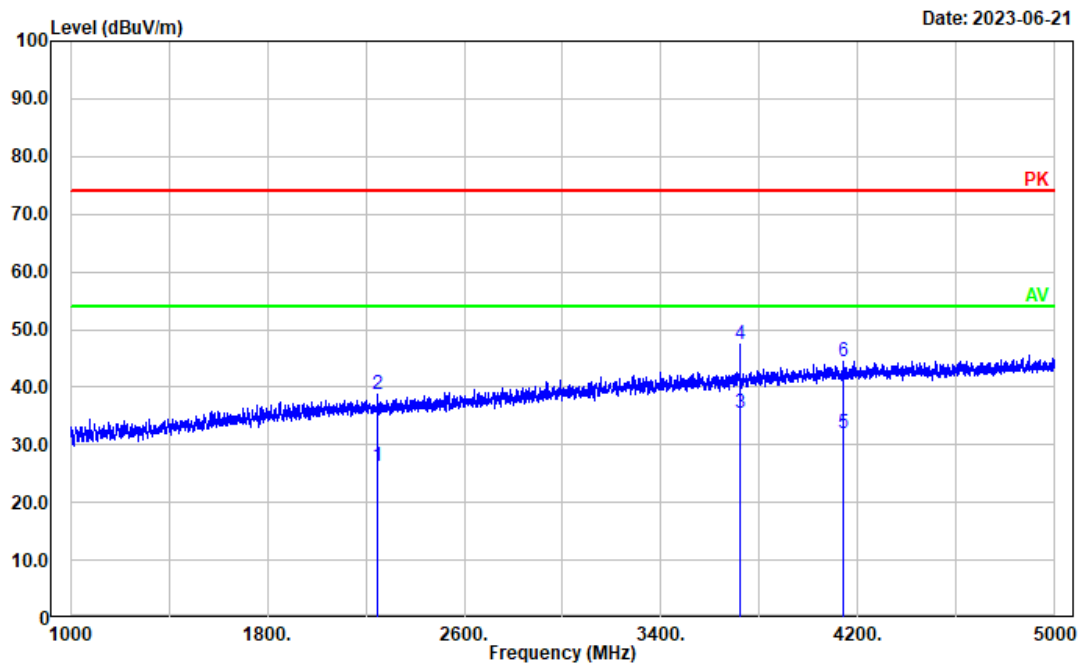
Test Mode: Charging& Receiving
Polarization: vertical
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	2585.117	23.32	4.16	27.48	54.00	26.52	Average
2	2585.117	35.64	4.16	39.80	74.00	34.20	Peak
3	3264.453	32.02	6.94	38.96	54.00	15.04	Average
4	3264.453	44.05	6.94	50.99	74.00	23.01	Peak
5	4660.732	22.27	10.49	32.76	54.00	21.24	Average
6	4660.732	34.53	10.49	45.02	74.00	28.98	Peak

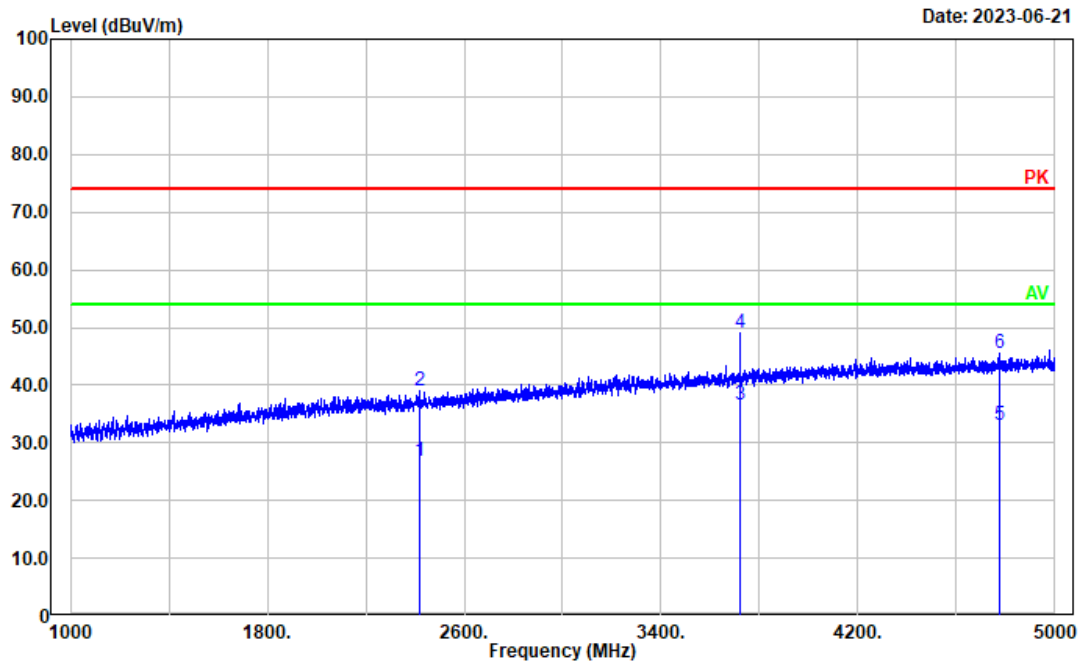
Test Mode: M2 (RX 155MHz)

Test Mode: Charging& Receiving
Polarization: horizontal
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	2249.050	23.30	3.05	26.35	54.00	27.65	Average
2	2249.050	35.60	3.05	38.65	74.00	35.35	Peak
3	3720.544	27.06	8.39	35.45	54.00	18.55	Average
4	3720.544	39.11	8.39	47.50	74.00	26.50	Peak
5	4139.828	22.47	9.49	31.96	54.00	22.04	Average
6	4139.828	34.93	9.49	44.42	74.00	29.58	Peak

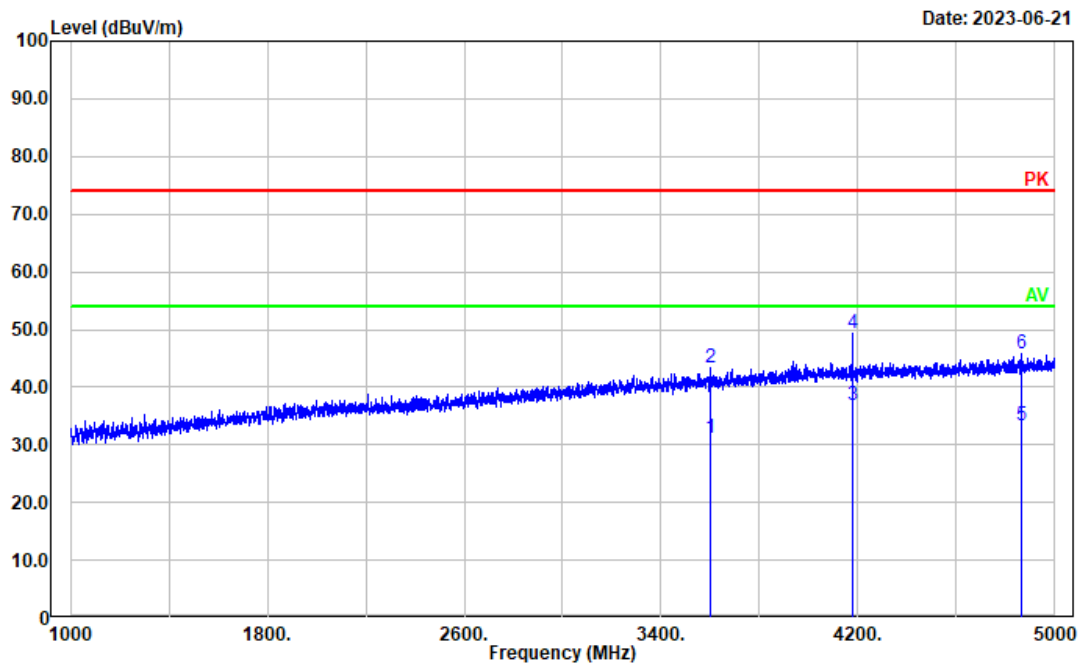
Test Mode: Charging& Receiving
Polarization: vertical
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	2416.283	23.23	3.56	26.79	54.00	27.21	Average
2	2416.283	35.47	3.56	39.03	74.00	34.97	Peak
3	3719.744	28.27	8.39	36.66	54.00	17.34	Average
4	3719.744	40.53	8.39	48.92	74.00	25.08	Peak
5	4773.555	22.34	10.81	33.15	54.00	20.85	Average
6	4773.555	34.68	10.81	45.49	74.00	28.51	Peak

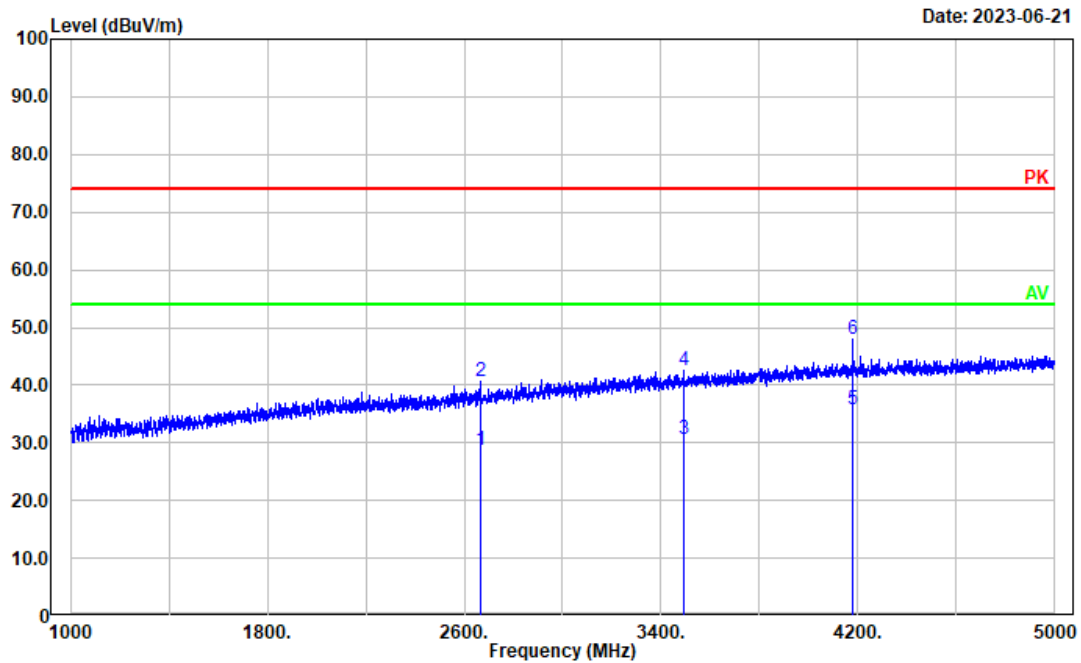
Test Mode: M2 (RX 173.9875MHz)

Test Mode: Charging& Receiving
Polarization: horizontal
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBUV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	3601.320	23.17	7.98	31.15	54.00	22.85	Average
2	3601.320	35.34	7.98	43.32	74.00	30.68	Peak
3	4175.835	27.32	9.57	36.89	54.00	17.11	Average
4	4175.835	39.64	9.57	49.21	74.00	24.79	Peak
5	4861.572	22.46	11.00	33.46	54.00	20.54	Average
6	4861.572	34.90	11.00	45.90	74.00	28.10	Peak

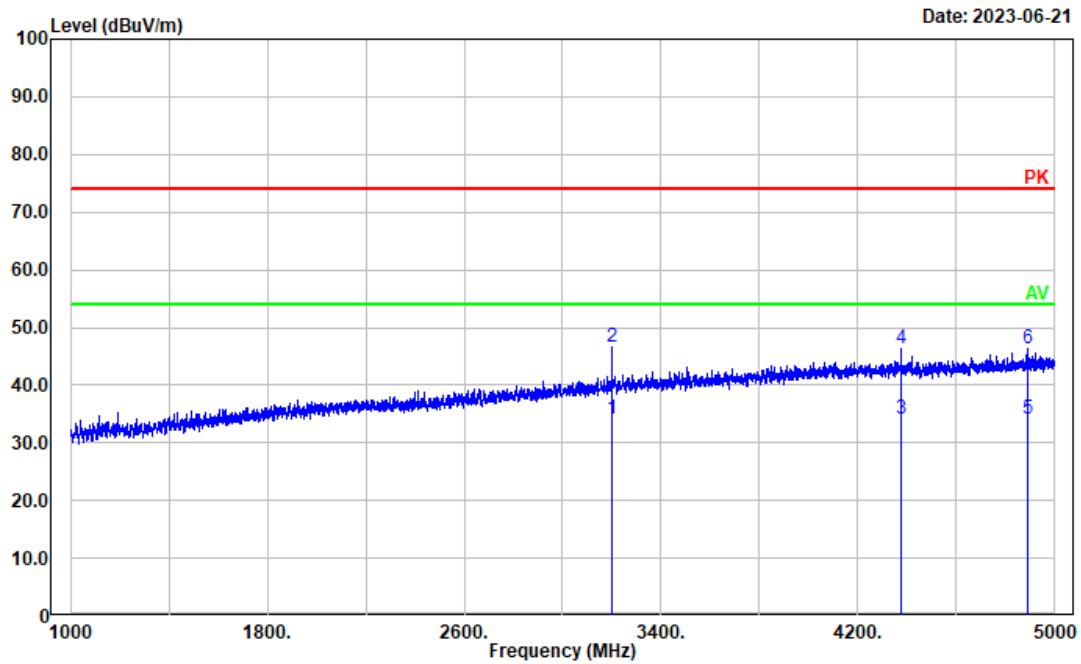
Test Mode: Charging& Receiving
Polarization: vertical
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	2665.133	24.09	4.53	28.62	54.00	25.38	Average
2	2665.133	36.20	4.53	40.73	74.00	33.27	Peak
3	3493.299	23.05	7.58	30.63	54.00	23.37	Average
4	3493.299	35.10	7.58	42.68	74.00	31.32	Peak
5	4175.835	26.15	9.57	35.72	54.00	18.28	Average
6	4175.835	38.31	9.57	47.88	74.00	26.12	Peak

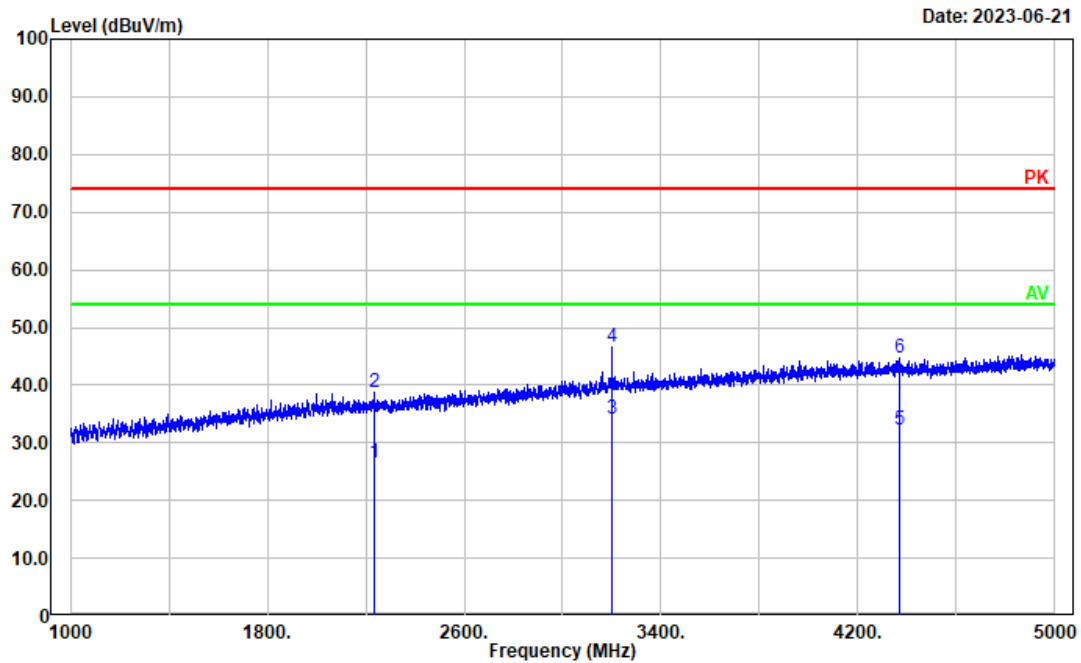
Test Mode: M2 (RX 400.0125MHz)

Test Mode: Charging& Receiving
Polarization: horizontal
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	3200.440	27.48	6.76	34.24	54.00	19.76	Average
2	3200.440	39.95	6.76	46.71	74.00	27.29	Peak
3	4372.674	24.20	9.82	34.02	54.00	19.98	Average
4	4372.674	36.40	9.82	46.22	74.00	27.78	Peak
5	4887.978	23.10	11.10	34.20	54.00	19.80	Average
6	4887.978	35.20	11.10	46.30	74.00	27.70	Peak

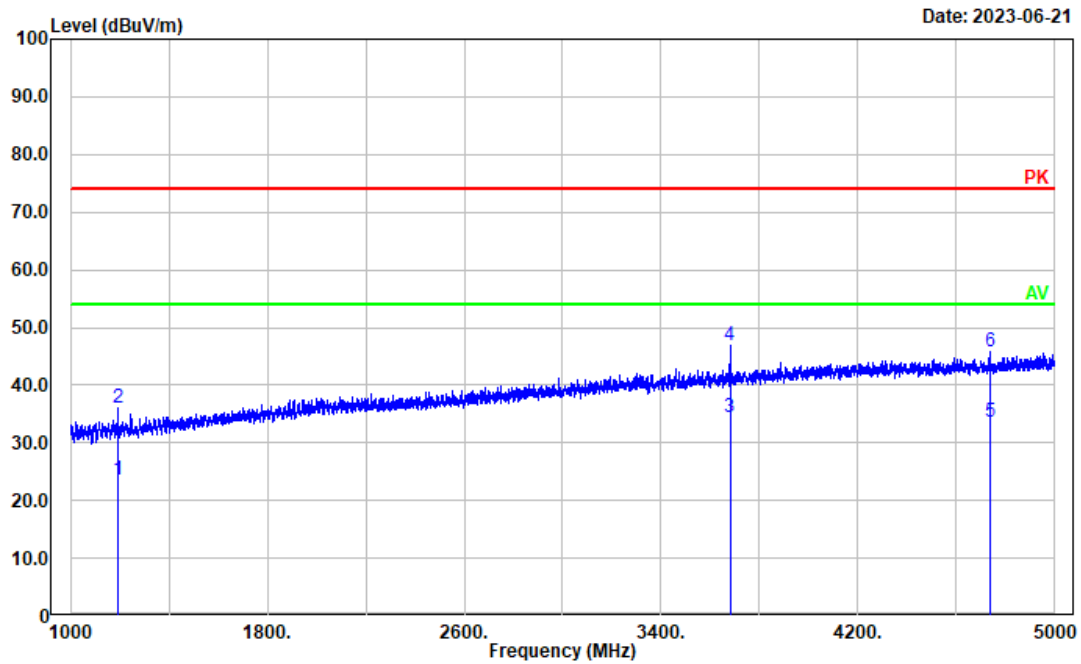
Test Mode: Charging& Receiving
Polarization: vertical
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	2232.246	23.42	3.01	26.43	54.00	27.57	Average
2	2232.246	35.83	3.01	38.84	74.00	35.16	Peak
3	3200.440	27.49	6.76	34.25	54.00	19.75	Average
4	3200.440	39.97	6.76	46.73	74.00	27.27	Peak
5	4366.273	22.44	9.82	32.26	54.00	21.74	Average
6	4366.273	34.87	9.82	44.69	74.00	29.31	Peak

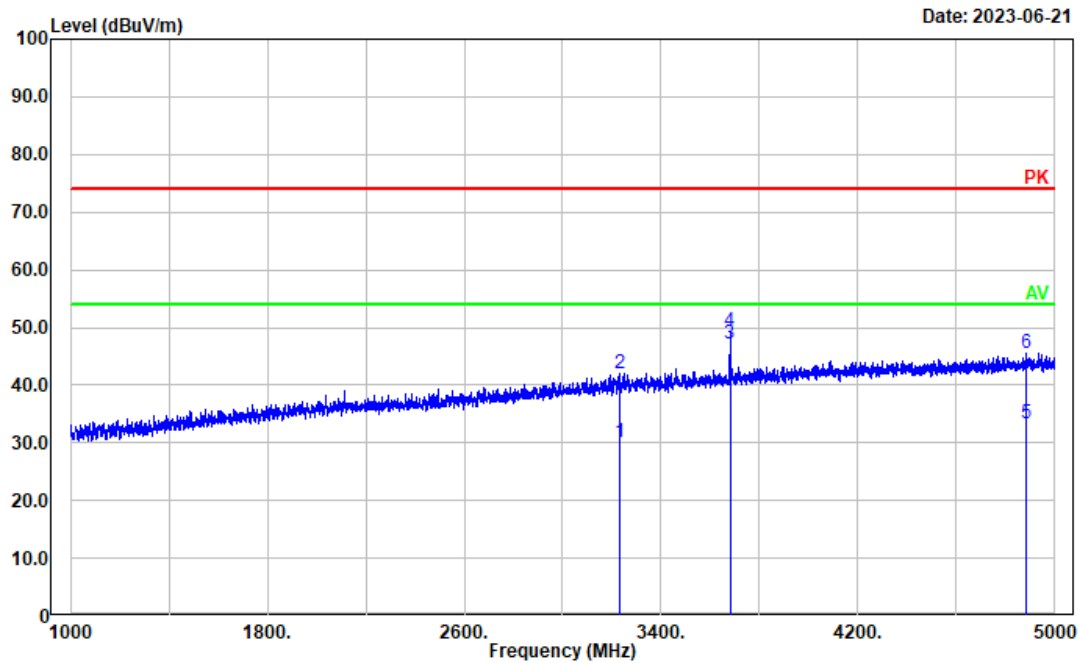
Test Mode: M2 (RX 460MHz)

Test Mode: Charging& Receiving
Polarization: horizontal
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	1192.038	25.38	-1.74	23.64	54.00	30.36	Average
2	1192.038	37.75	-1.74	36.01	74.00	37.99	Peak
3	3679.736	26.26	8.24	34.50	54.00	19.50	Average
4	3679.736	38.51	8.24	46.75	74.00	27.25	Peak
5	4734.347	23.03	10.64	33.67	54.00	20.33	Average
6	4734.347	35.05	10.64	45.69	74.00	28.31	Peak

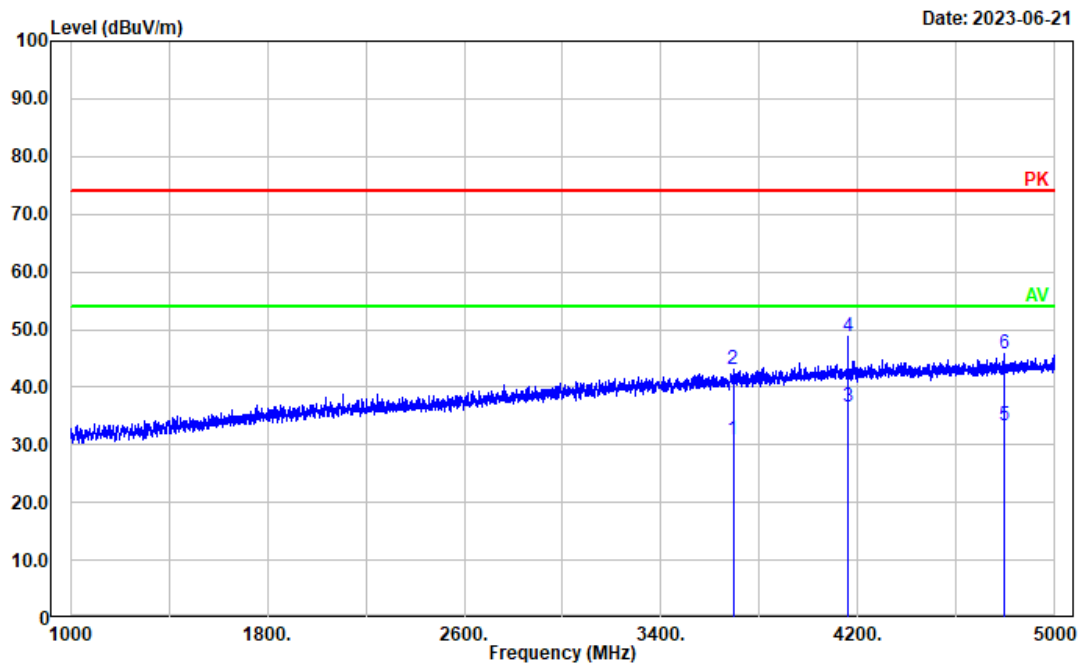
Test Mode: Charging& Receiving
Polarization: vertical
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	3229.246	23.13	6.85	29.98	54.00	24.02	Average
2	3229.246	35.27	6.85	42.12	74.00	31.88	Peak
3	3679.736	39.02	8.24	47.26	54.00	6.74	Average
4	3679.736	41.05	8.24	49.29	74.00	24.71	Peak
5	4885.577	22.24	11.08	33.32	54.00	20.68	Average
6	4885.577	34.49	11.08	45.57	74.00	28.43	Peak

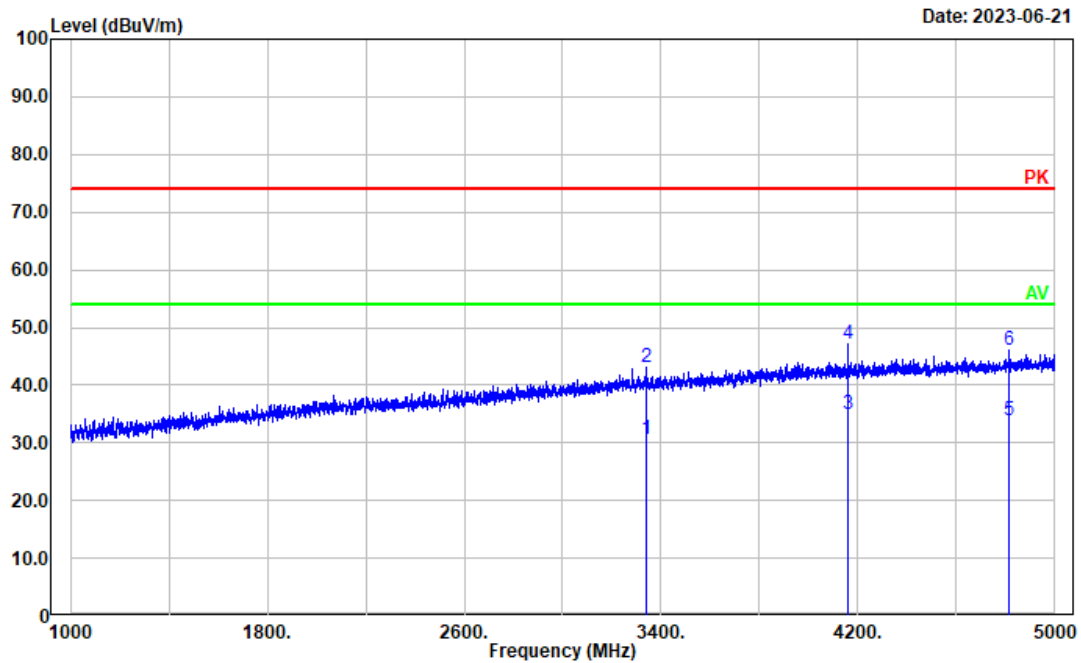
Test Mode: M2 (RX 519.9875MHz)

Test Mode: Charging& Receiving
Polarization: horizontal
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	3692.539	22.44	8.32	30.76	54.00	23.24	Average
2	3692.539	34.87	8.32	43.19	74.00	30.81	Peak
3	4159.832	27.18	9.51	36.69	54.00	17.31	Average
4	4159.832	39.35	9.51	48.86	74.00	25.14	Peak
5	4792.759	22.41	10.88	33.29	54.00	20.71	Average
6	4792.759	34.83	10.88	45.71	74.00	28.29	Peak

Test Mode: Charging& Receiving
Polarization: vertical
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	3342.068	23.46	7.11	30.57	54.00	23.43	Average
2	3342.068	35.91	7.11	43.02	74.00	30.98	Peak
3	4159.832	25.39	9.51	34.90	54.00	19.10	Average
4	4159.832	37.77	9.51	47.28	74.00	26.72	Peak
5	4815.963	23.07	10.93	34.00	54.00	20.00	Average
6	4815.963	35.13	10.93	46.06	74.00	27.94	Peak

4.3 Antenna Power Conduction Limits for Receivers

Serial Number:	26TE-1	Test Date:	2023/06/16-2023/06/30
Test Site:	RF	Test Mode:	M1&M2
Tester:	Morpheus Shi	Test Result:	Pass

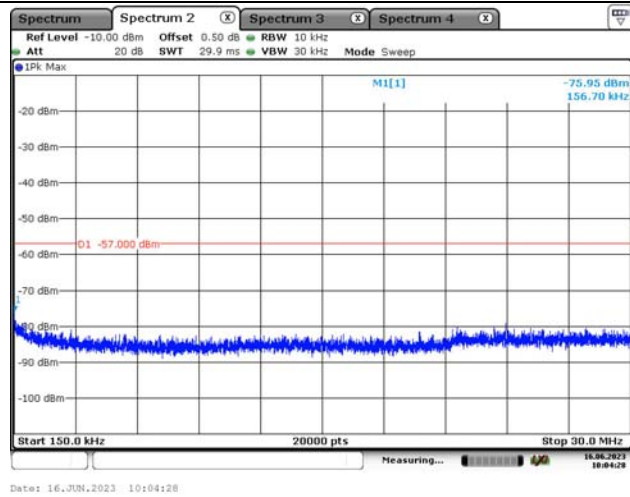
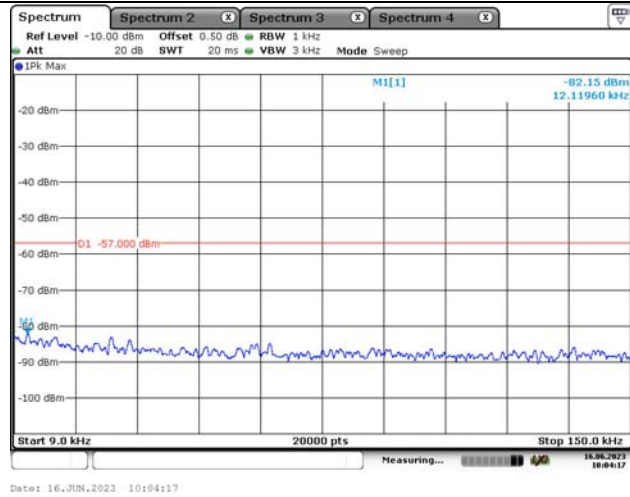
Environmental Conditions:

Temperature: (°C)	26.1-26.5	Relative Humidity: (%)	57-61	ATM Pressure: (kPa)	99.9
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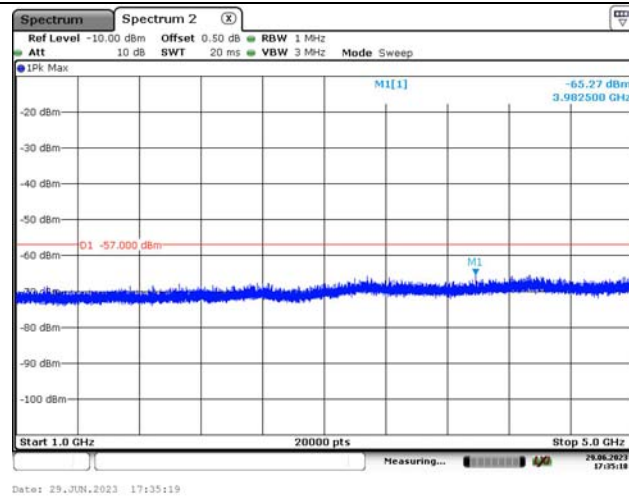
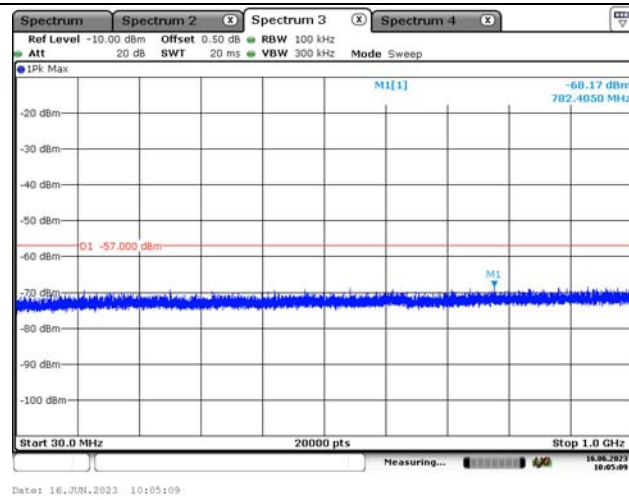
Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2022/07/15	2023/07/14
YINSAIGE	Coaxial Cable	SS402	SJ0100001	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	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).*

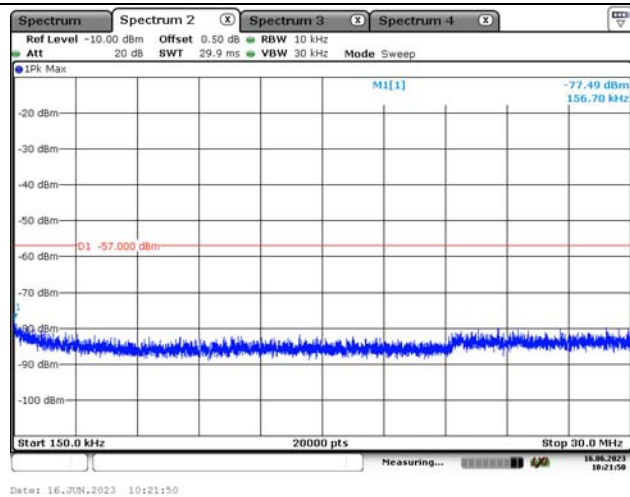
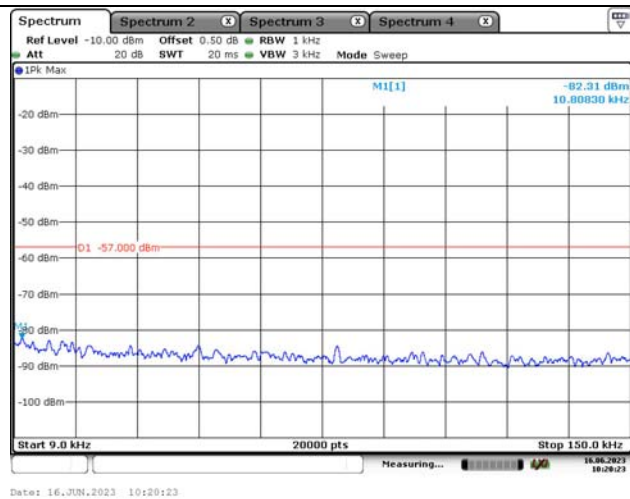
Test Mode: M1**Scanning**

Scanning

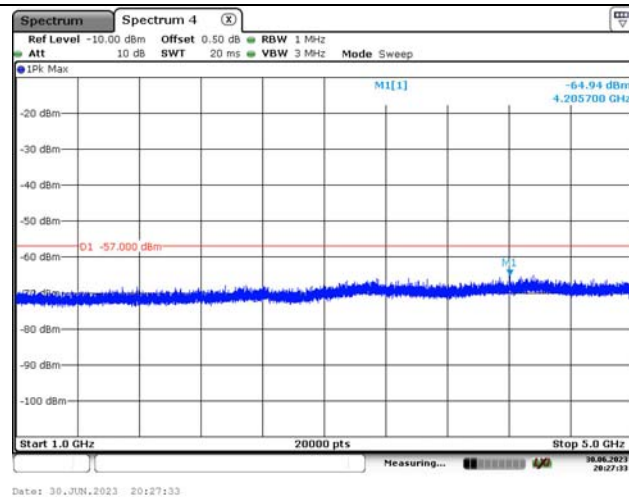
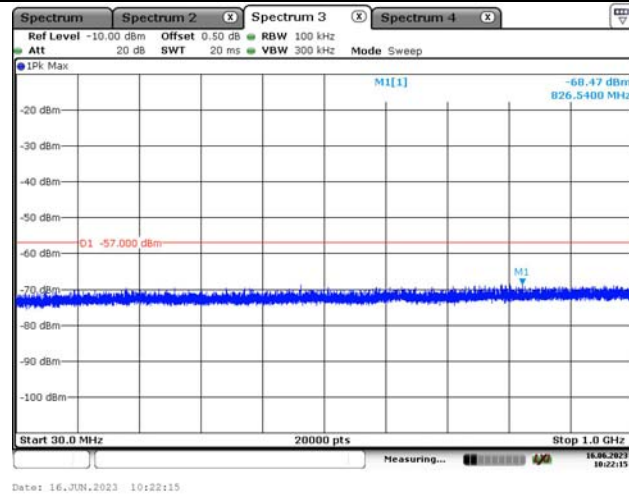


Test Mode: M2

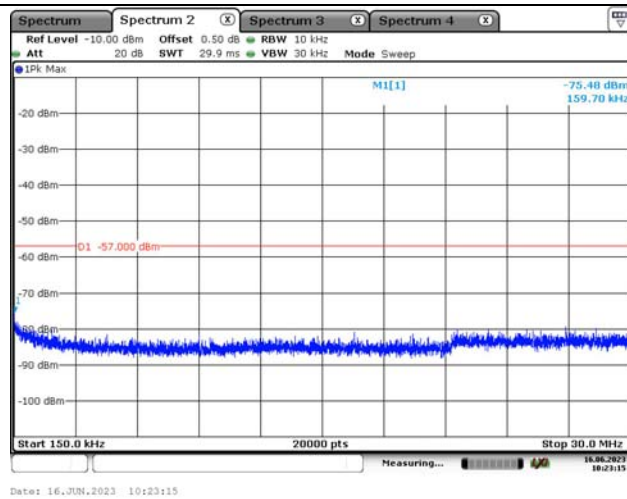
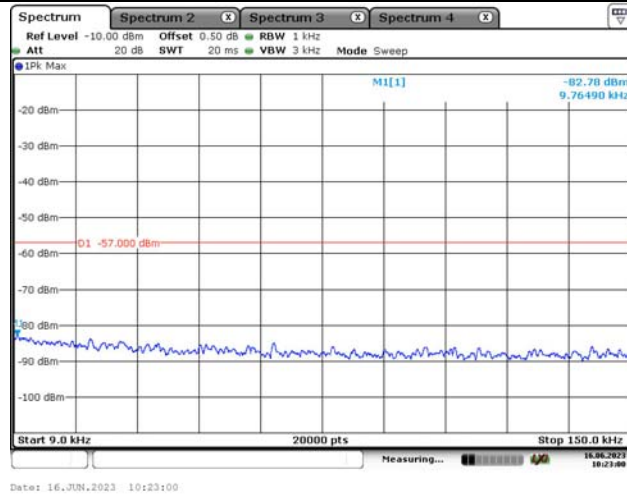
136.0125 MHz



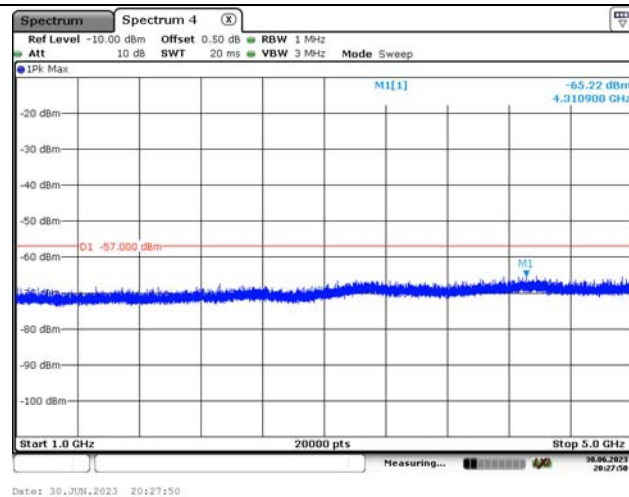
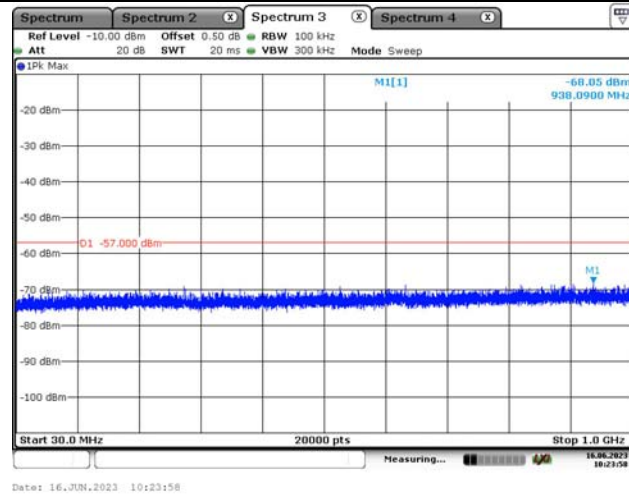
136.0125 MHz



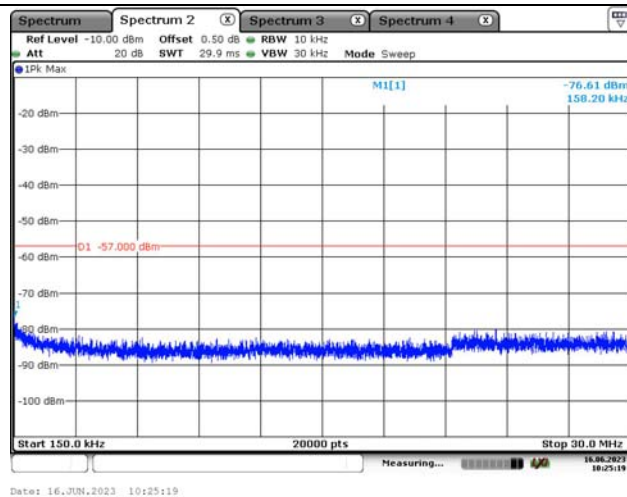
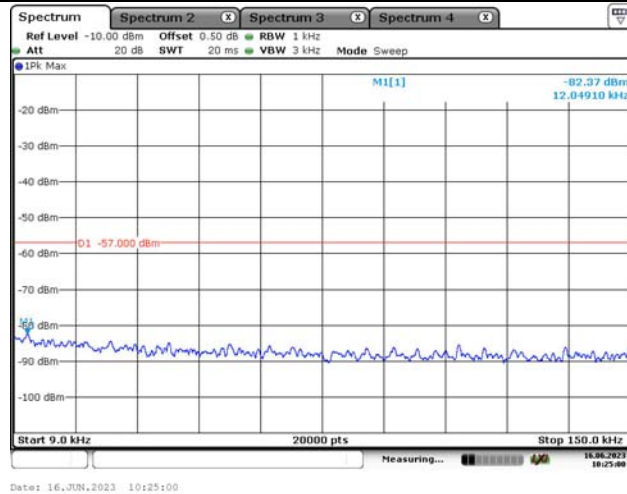
155 MHz



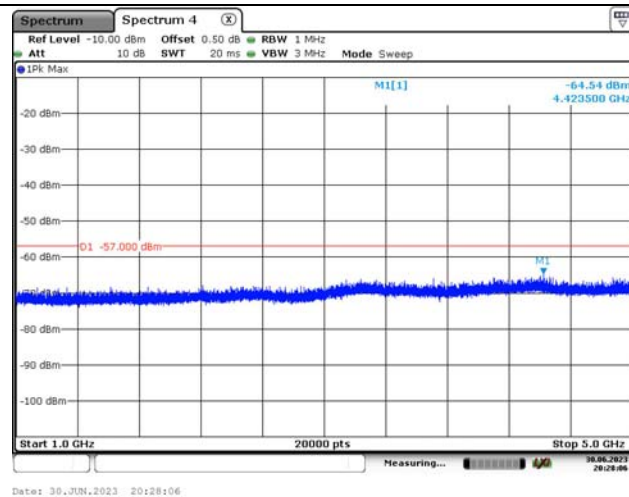
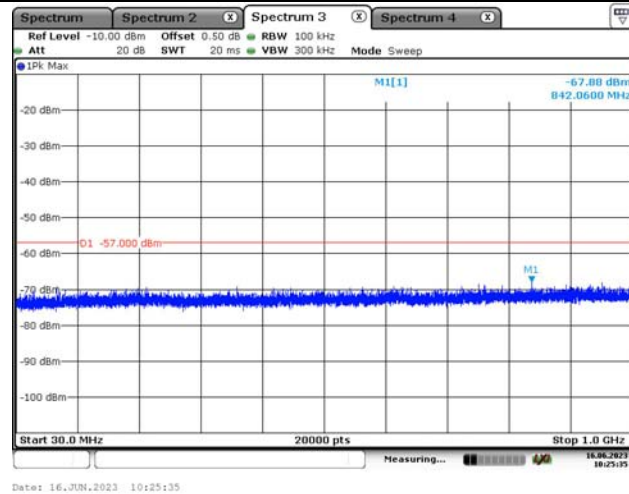
155 MHz



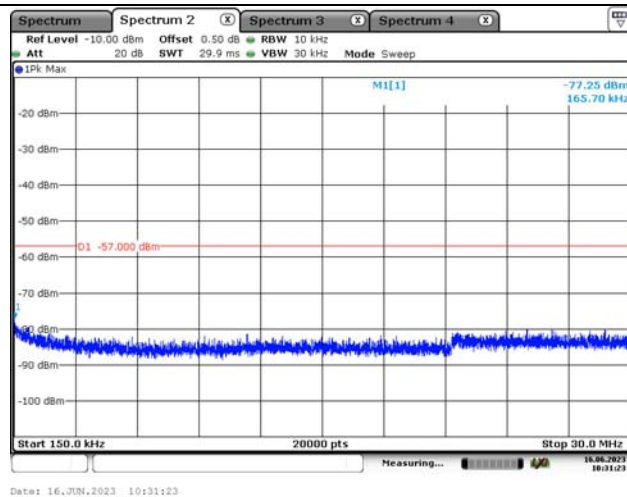
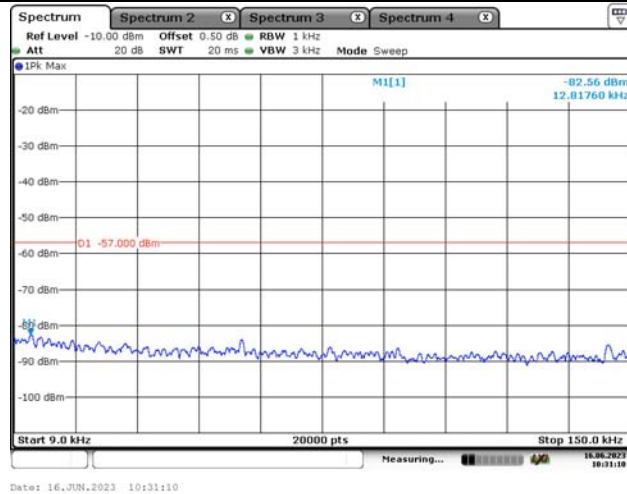
173.9875 MHz



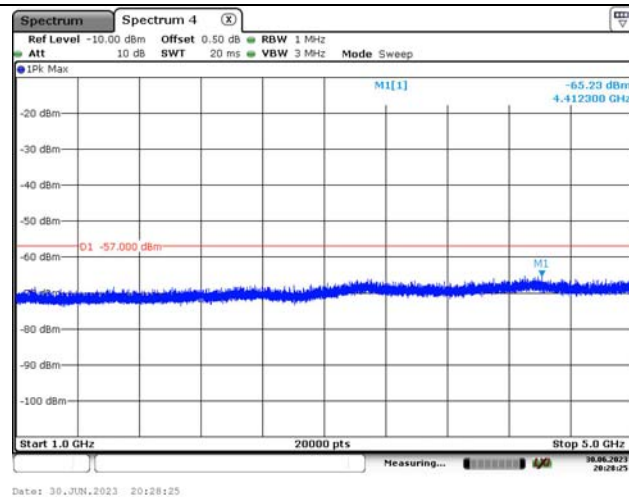
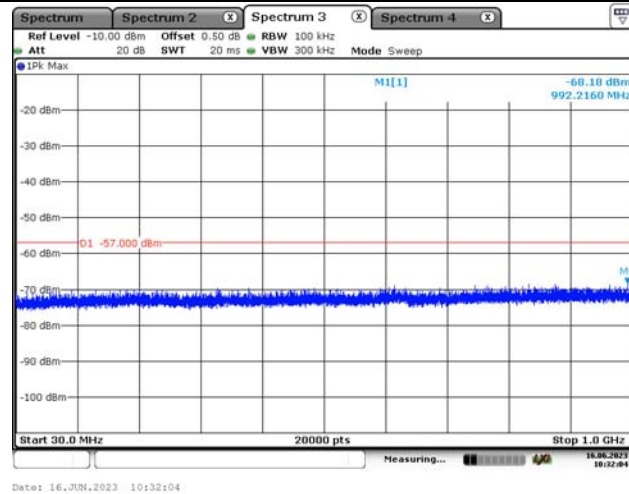
173.9875 MHz



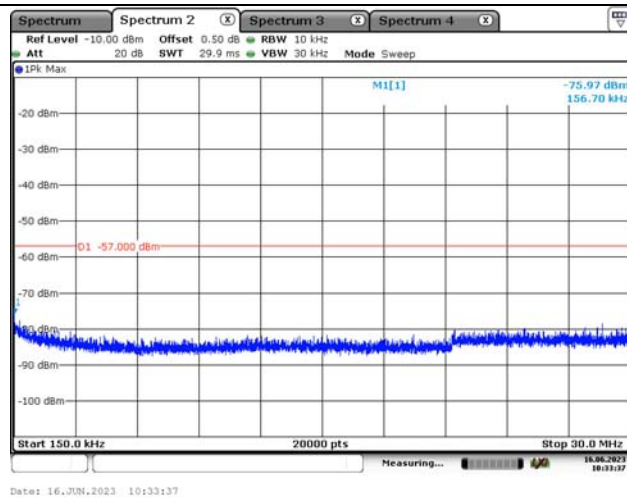
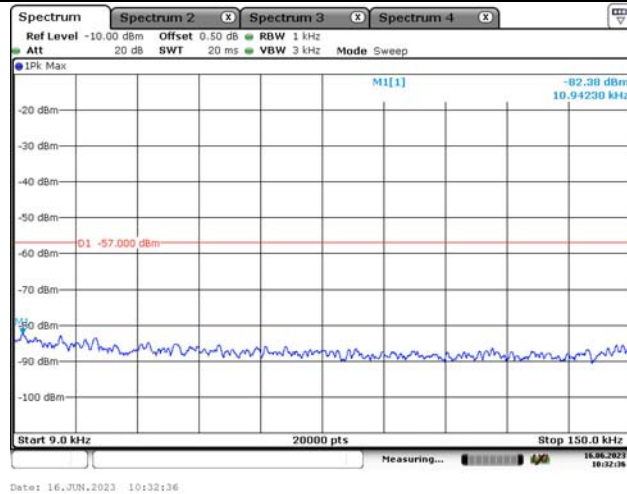
400.0125MHz



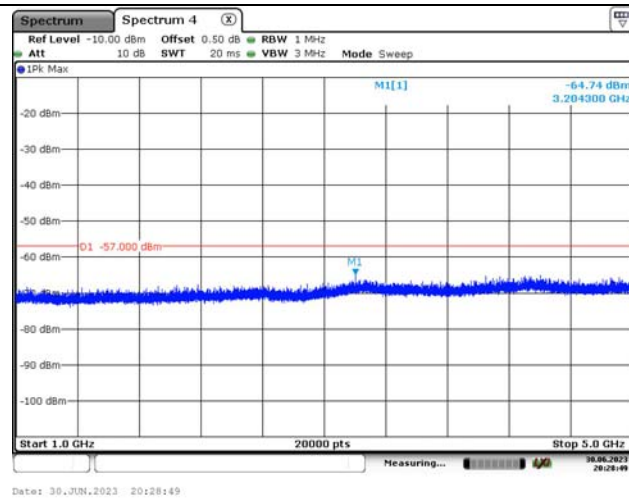
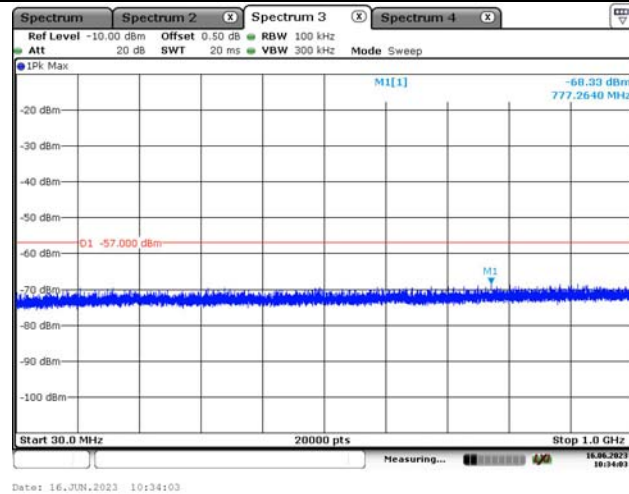
400.0125MHz



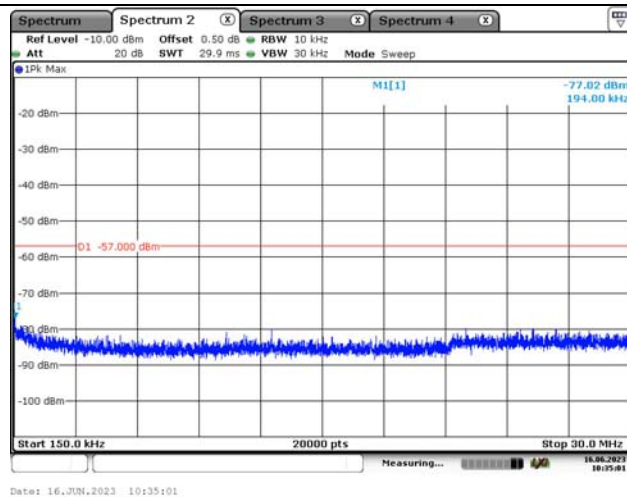
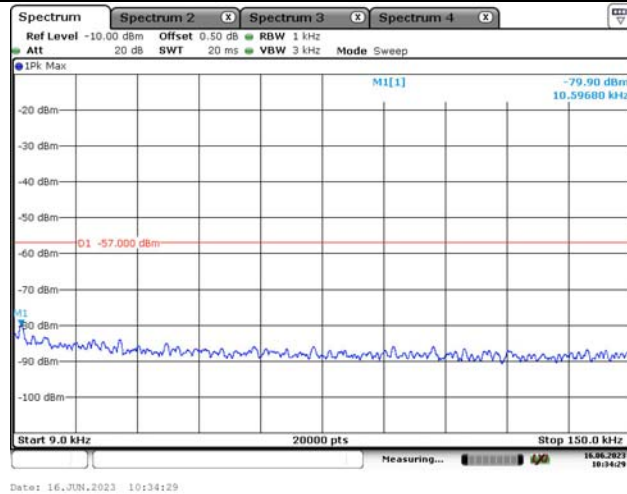
460 MHz



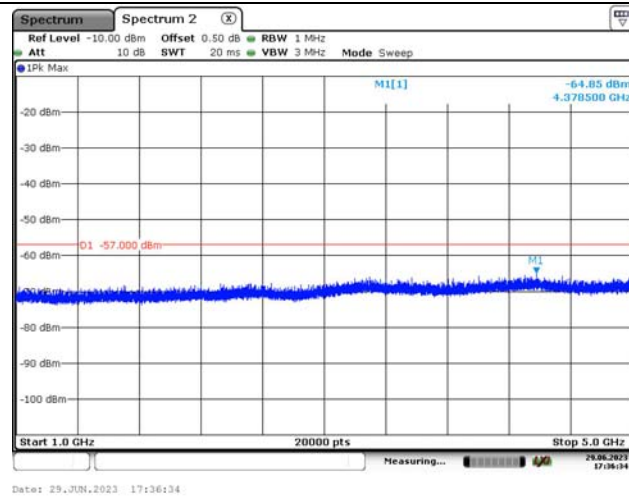
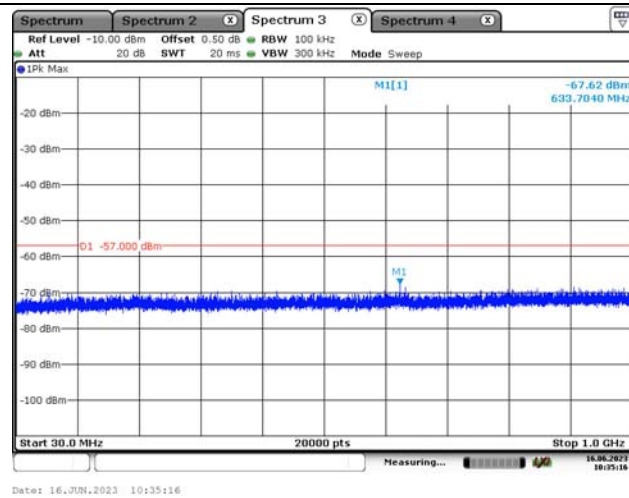
460 MHz



519.9875 MHz



519.9875 MHz



4.4 Scanning Receivers and Frequency Converters Used with Scanning Receivers

Serial Number:	26TE-1	Test Date:	2023/06/16-2023/06/30
Test Site:	RF	Test Mode:	Scanning
Tester:	Morpheus Shi	Test Result:	Pass

Environmental Conditions:					
Temperature: (°C)	26.1-26.5	Relative Humidity: (%)	57-61	ATM Pressure: (kPa)	99.9

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2022/07/15	2023/07/14
YINSAIGE	Coaxial Cable	SS402	SJ0100001	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A
HP	RF Communications Test Set	8920A	3438A05209	2023/3/31	2024/3/30
Agilent	MXG Vector Signal Generator	N5182B	MY51350144	2023/3/31	2024/3/30

** 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
136-174/400-520	824, 836, 849, 869, 881.5, 894	43	>38

5. EUT PHOTOGRAPHS

Please refer to the attachment CR230633408-EXP EUT EXTERNAL PHOTOGRAPHS and CR230633408-INP EUT INTERNAL PHOTOGRAPHS

6. TEST SETUP PHOTOGRAPHS

Please refer to the attachment CR230633408-00A -TSP TEST SETUP PHOTOGRAPHS.

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