



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



TEST REPORT

Applicant: Shanghai Sunmi Technology Co.,Ltd.

Address: Room 505, KIC Plaza, No.388 Song Hu Road, Yang Pu District, Shanghai, China

FCC ID: 2AH25TF701

Product Name: WIRELESS DATA TERMINAL

Model Number: TF701

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: CR21120036-00F

Date Of Issue: 2022-01-27

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
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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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1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	WIRELESS DATA TERMINAL
EUT Model:	TF701
Highest Operation Frequency:	5825 MHz
Rated Input Voltage:	DC 3.85V from battery DC 5.0/9.0/12.0/3.6~6.0/6.0~9.0/9.0~12.0V from adapter
Serial Number:	CR21120036-RF-S1
EUT Received Date:	2021.12.23
EUT Received Status:	Good

Accessory Information:

Accessory Description	Manufacturer	Model	Parameters
USB Cable	Unknown	Unknown	Un-shield, 1 m
Adapter 1#	SHENZHEN TIANYIN ELECTRONICS Co.,Ltd	TPA-23A050200UU01	Input: 100-240V~50/60Hz 0.3A Output: 5V/2A
Adapter 2#	Jiangsu Chenyang Eletron Co.,Ltd	UC13US	Input: 100-240V~50/60Hz 0.35A Output: 5V/2A
Adapter 3#	SHENZHEN TIANYIN ELECTRONICS Co.,Ltd	TPA-10120150UU	Input: 100-240V~50/60Hz 0.6A Output: 3.6~6.0V/3A 6.0~9.0V/2A 9.0~12.0V/1.5A
Adapter 4#	Jiangsu Chenyang Eletron Co.,Ltd	CK18W02U	Input: 100-240V~50/60Hz 0.5A Output: 5V/3A 9V/2A 12V/1.5A

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: downloading
Equipment Modifications:	No
EUT Exercise Software:	No

1.2.2 Support Equipment List and Details

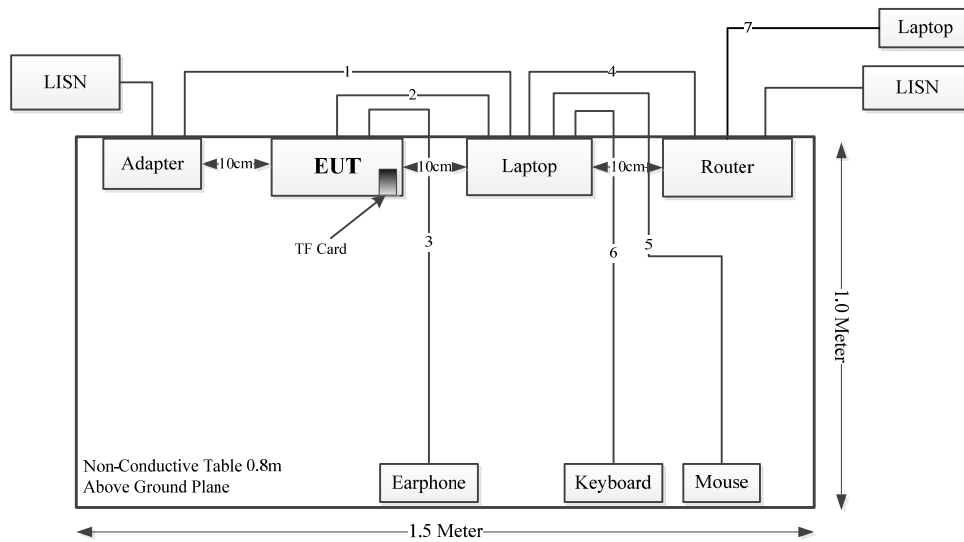
Manufacturer	Description	Model	Serial Number
Lenovo	Laptop	E480	PF-1QQYYP 19/06
DELL	Laptop	E6410	586N3Q1
Unknown	Earphone	Unknown	Earphone03
PHILIPS	Keyboard	SPK6234	K234210510742
PHILIPS	Mouse	SPK7214	M214BQ210411113
FAST	Ethernet switch	FS05	11923811054
SanDisk	TF Card	16 GB	1183DRECV11N

1.2.3 Support Cable List and Details

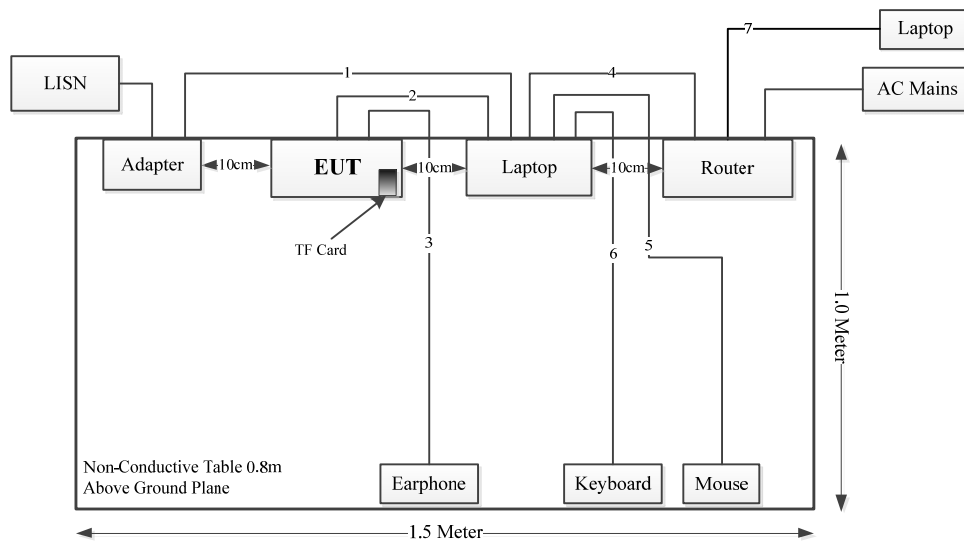
Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
Keyboard Cable	No	No	1.8	Keyboard	USB Port of Laptop
Mouse Cable	No	No	2	USB port of EUT	Mouse
Earphone Cable	No	No	2	EUT	Earphone
RJ45 Cable	No	No	1.2	Ethernet port of Switch	Laptop
RJ45 Cable	No	No	3	Ethernet port of Switch	Laptop

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

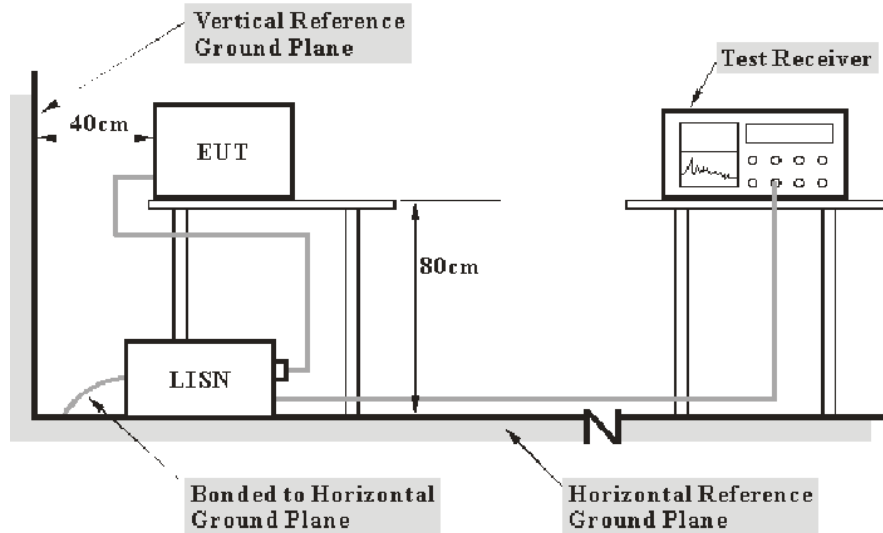
2. SUMMARY OF TEST RESULTS

Standard(s) Section	Description of Test	Result
§15.107	Conducted emissions	Compliant
§15.109	Radiated emissions	Compliant

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

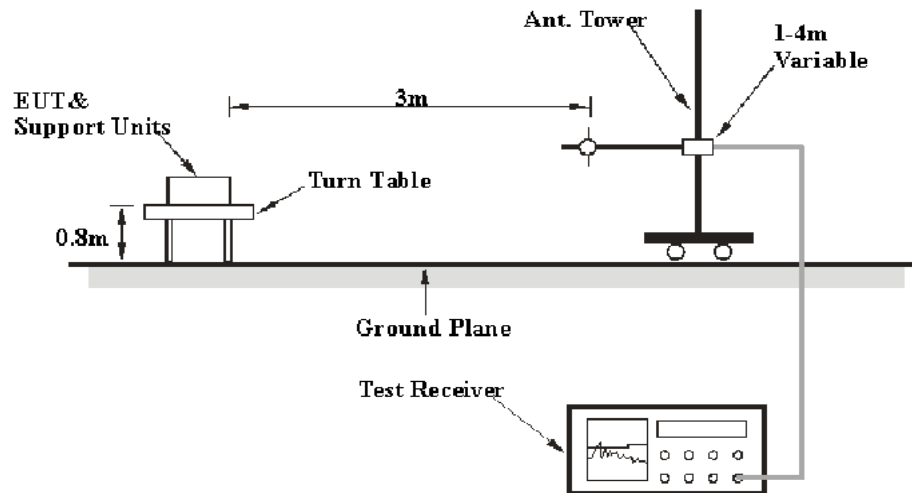
The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

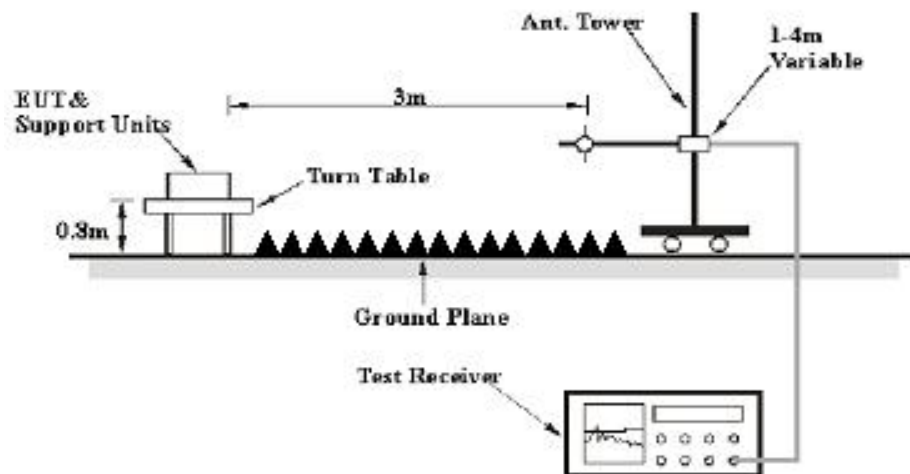
3.2 Radiation Spurious Emissions

3.2.1 EUT Setup

Below 1GHz:



Above 1GHz:



The radiated emission 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 EMI Test Receiver Setup

The system was investigated from 30 MHz to 30 GHz.

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

Frequency Range	RBW	Video B/W	IF B/W	Measurement
30 MHz – 1000 MHz	120 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1 MHz	3 MHz	/	Peak
	1 MHz	Reduced video bandwidth	/	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

4. TEST DATA AND RESULTS

4.1 AC Line Conducted Emissions

Serial Number:	CR21120036-RF-S1	Test Date:	2022-01-12
Test Site:	CE	Test Mode:	Downloading
Tester:	Nick Tang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	17.2	Relative Humidity: (%)	49	ATM Pressure: (kPa)	101.6
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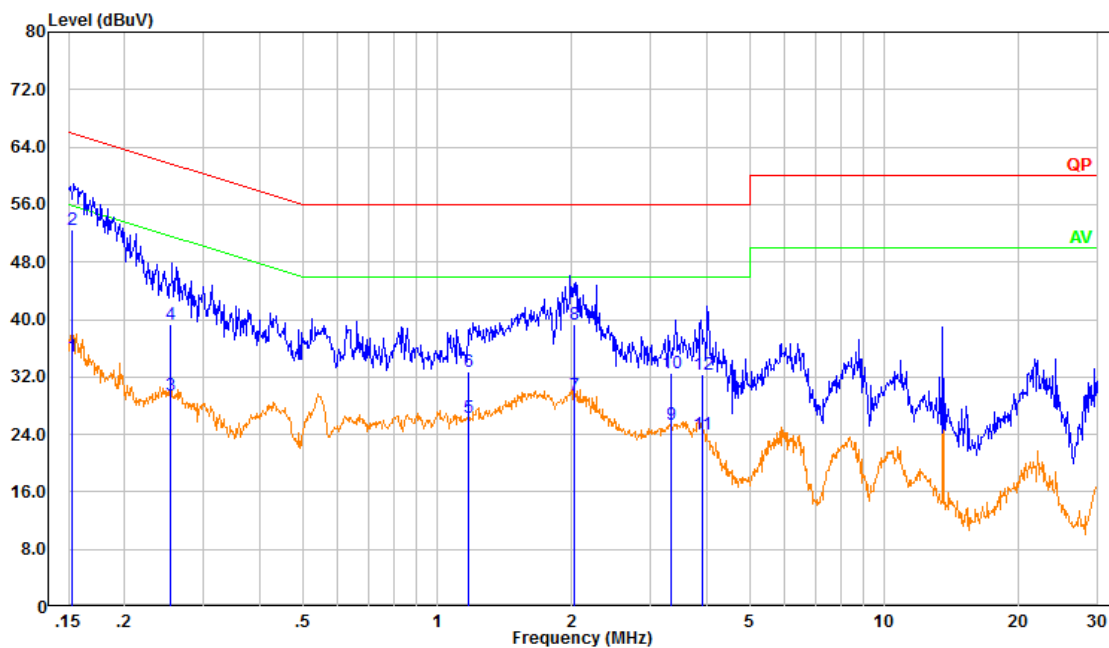
Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101134	2021-04-25	2022-04-24
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).*

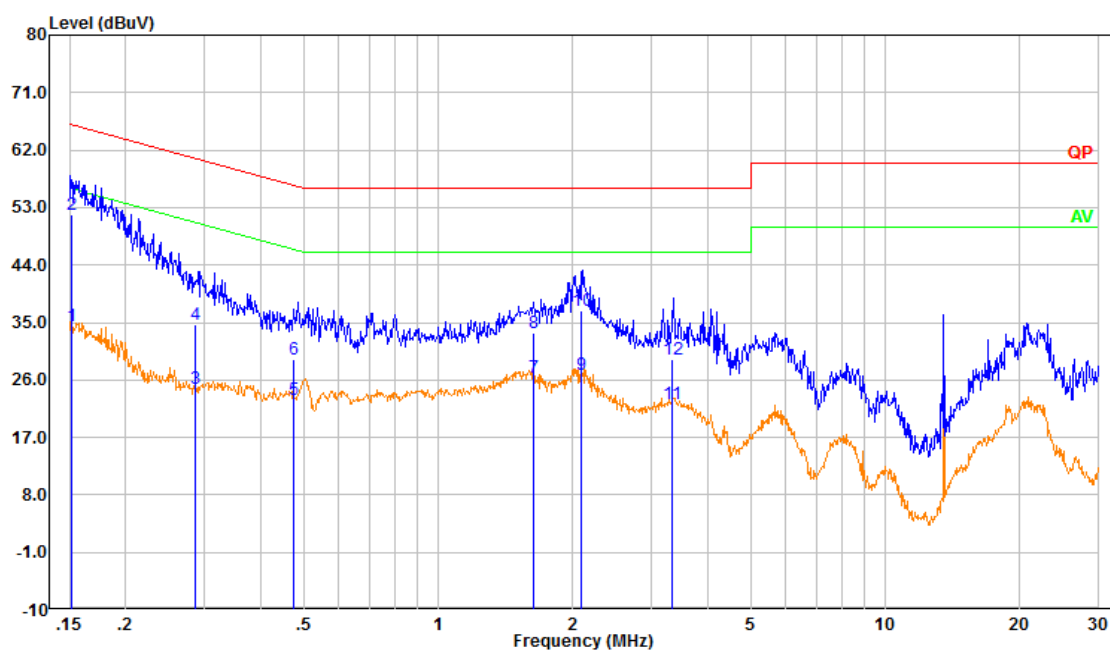
Code scanner 1#:

Line:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.152	25.17	9.61	34.78	55.87	21.09	Average
2	0.152	42.83	9.61	52.44	65.87	13.43	QP
3	0.253	19.85	9.61	29.46	51.65	22.19	Average
4	0.253	29.69	9.61	39.30	61.65	22.35	QP
5	1.175	16.79	9.62	26.41	46.00	19.59	Average
6	1.175	23.05	9.62	32.67	56.00	23.33	QP
7	2.024	19.76	9.63	29.39	46.00	16.61	Average
8	2.024	29.64	9.63	39.27	56.00	16.73	QP
9	3.331	15.72	9.65	25.37	46.00	20.63	Average
10	3.331	22.84	9.65	32.49	56.00	23.51	QP
11	3.913	14.31	9.65	23.96	46.00	22.04	Average
12	3.913	22.71	9.65	32.36	56.00	23.64	QP

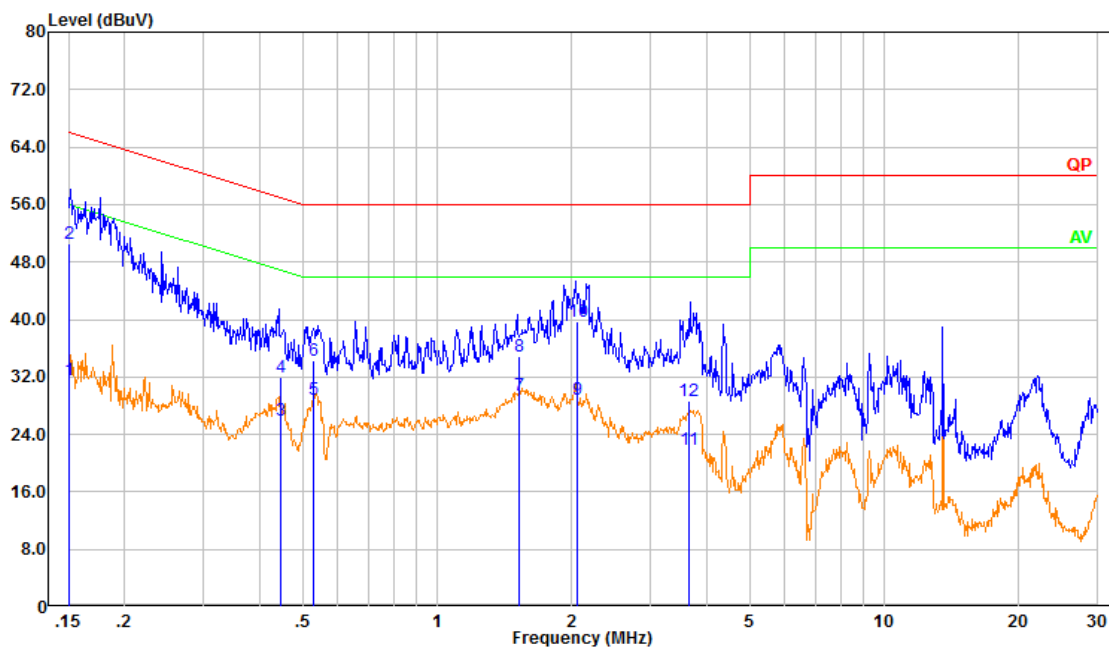
Neutral:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.151	24.82	9.61	34.43	55.95	21.52	Average
2	0.151	42.36	9.61	51.97	65.95	13.98	QP
3	0.286	15.09	9.61	24.70	50.64	25.94	Average
4	0.286	25.04	9.61	34.65	60.64	25.99	QP
5	0.474	13.21	9.61	22.82	46.44	23.62	Average
6	0.474	19.68	9.61	29.29	56.44	27.15	QP
7	1.640	16.76	9.63	26.39	46.00	19.61	Average
8	1.640	23.80	9.63	33.43	56.00	22.57	QP
9	2.093	17.16	9.63	26.80	46.00	19.20	Average
10	2.093	27.26	9.63	36.89	56.00	19.11	QP
11	3.336	12.63	9.65	22.28	46.00	23.72	Average
12	3.336	19.49	9.65	29.14	56.00	26.86	QP

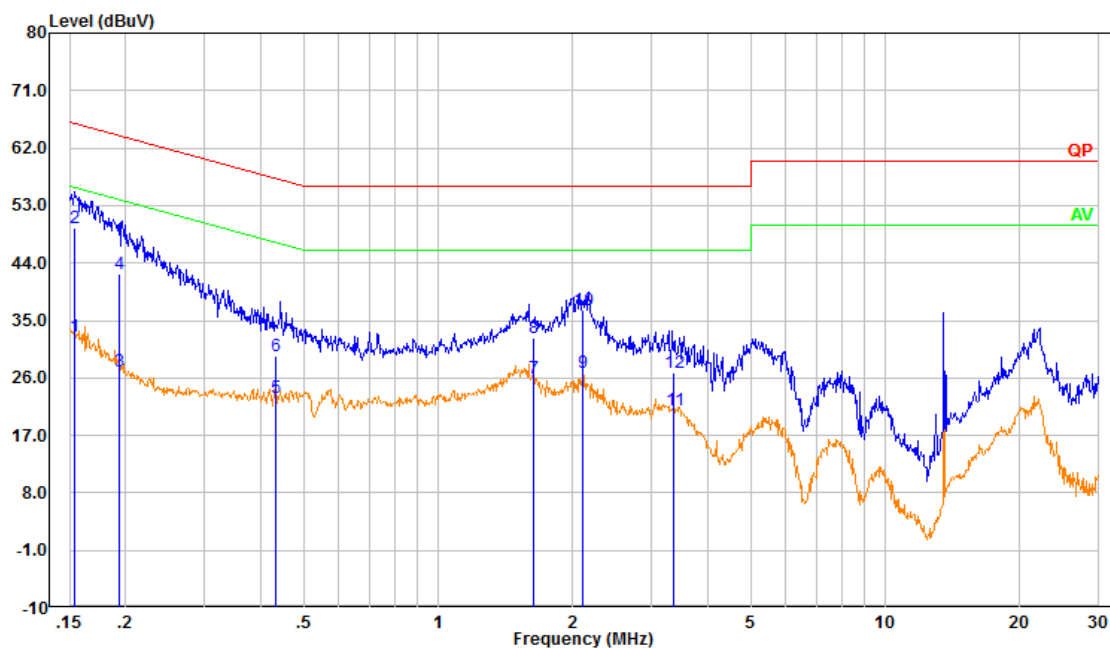
Code scanner 2#:

Line:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.151	22.04	9.61	31.65	55.96	24.31	Average
2	0.151	40.87	9.61	50.48	65.96	15.48	QP
3	0.446	16.34	9.61	25.95	46.96	21.01	Average
4	0.446	22.30	9.61	31.91	56.96	25.05	QP
5	0.531	19.16	9.61	28.77	46.00	17.23	Average
6	0.531	24.61	9.61	34.22	56.00	21.78	QP
7	1.525	19.91	9.63	29.54	46.00	16.46	Average
8	1.525	25.29	9.63	34.92	56.00	21.08	QP
9	2.055	19.32	9.63	28.95	46.00	17.05	Average
10	2.055	30.03	9.63	39.66	56.00	16.34	QP
11	3.646	12.31	9.65	21.96	46.00	24.04	Average
12	3.646	18.98	9.65	28.63	56.00	27.37	QP

Neutral:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.154	22.98	9.61	32.59	55.78	23.19	Average
2	0.154	39.92	9.61	49.53	65.78	16.25	QP
3	0.194	17.39	9.61	27.00	53.86	26.86	Average
4	0.194	32.66	9.61	42.27	63.86	21.59	QP
5	0.434	13.25	9.61	22.86	47.18	24.32	Average
6	0.434	19.85	9.61	29.46	57.18	27.72	QP
7	1.635	16.24	9.63	25.87	46.00	20.13	Average
8	1.635	22.56	9.63	32.19	56.00	23.81	QP
9	2.108	17.21	9.63	26.84	46.00	19.16	Average
10	2.108	27.08	9.63	36.71	56.00	19.29	QP
11	3.367	11.31	9.65	20.96	46.00	25.04	Average
12	3.367	17.24	9.65	26.89	56.00	29.11	QP

4.2 Radiation Spurious Emissions

Serial Number:	CR21120036-RF-S1	Test Date:	2021-12-30~2022-01-13
Test Site:	966-1, 966-2	Test Mode:	Downloading
Tester:	Tommy Luo, Carl Liang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	17.2~20.1	Relative Humidity: (%)	55~58	ATM Pressure: (kPa)	101.6~101.8
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Test Equipment List and Details:

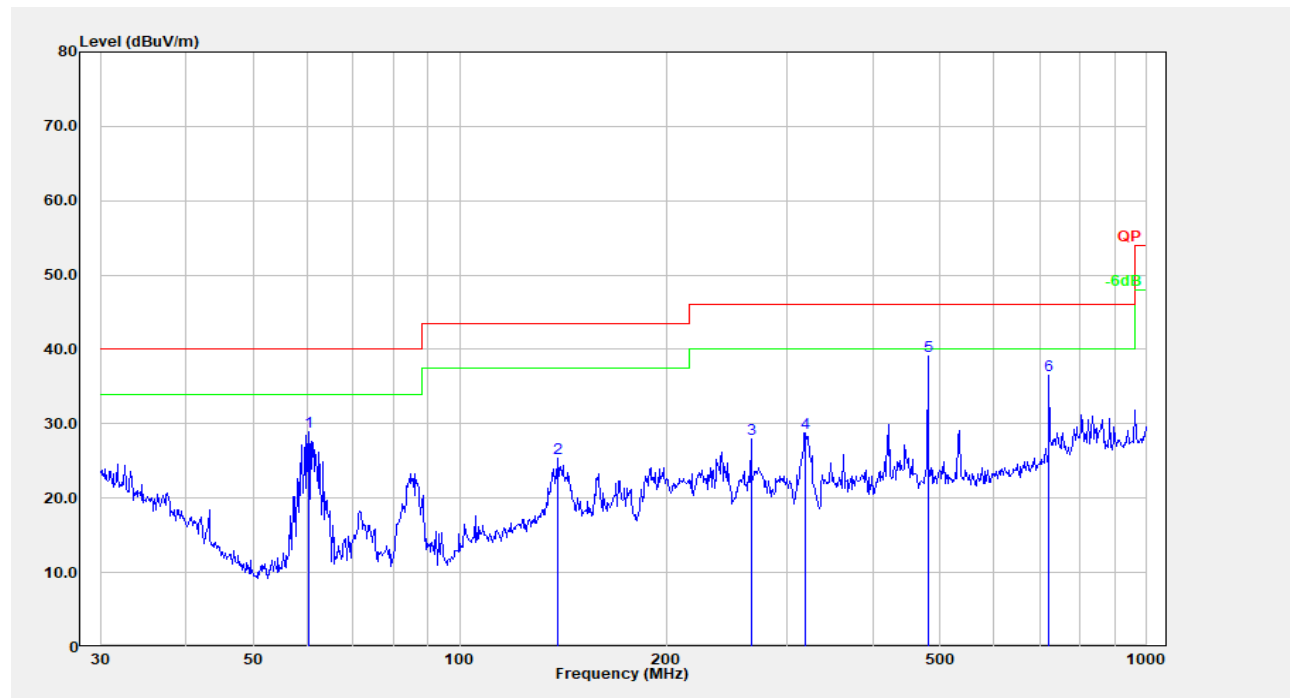
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Antenna	JB6	A082520-5	2020-10-19	2023-10-18
R&S	EMI Test Receiver	ESR3	102724	2021-07-22	2022-07-21
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0470-02	2021-07-18	2022-07-17
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0780-01	2021-07-18	2022-07-17
Sonoma	Amplifier	310N	186165	2021-07-18	2022-07-17
ETS-Lindgren	Horn Antenna	3115	9912-5985	2020-10-13	2023-10-12
PASTERNAK	Horn Antenna	PE9852/2F-20	112002	2021-02-05	2023-02-04
PASTERNAK	Horn Antenna	PE9850/2F-20	072001	2021-02-05	2023-02-04
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
MICRO-COAX	Coaxial Cable	UFB142A-1-2362-200200	235772-001	2021-08-08	2022-08-07
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2021-11-10	2022-11-09
AH	Preamplifier	PAM-1840VH	190	2020-11-20	2021-11-19
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).

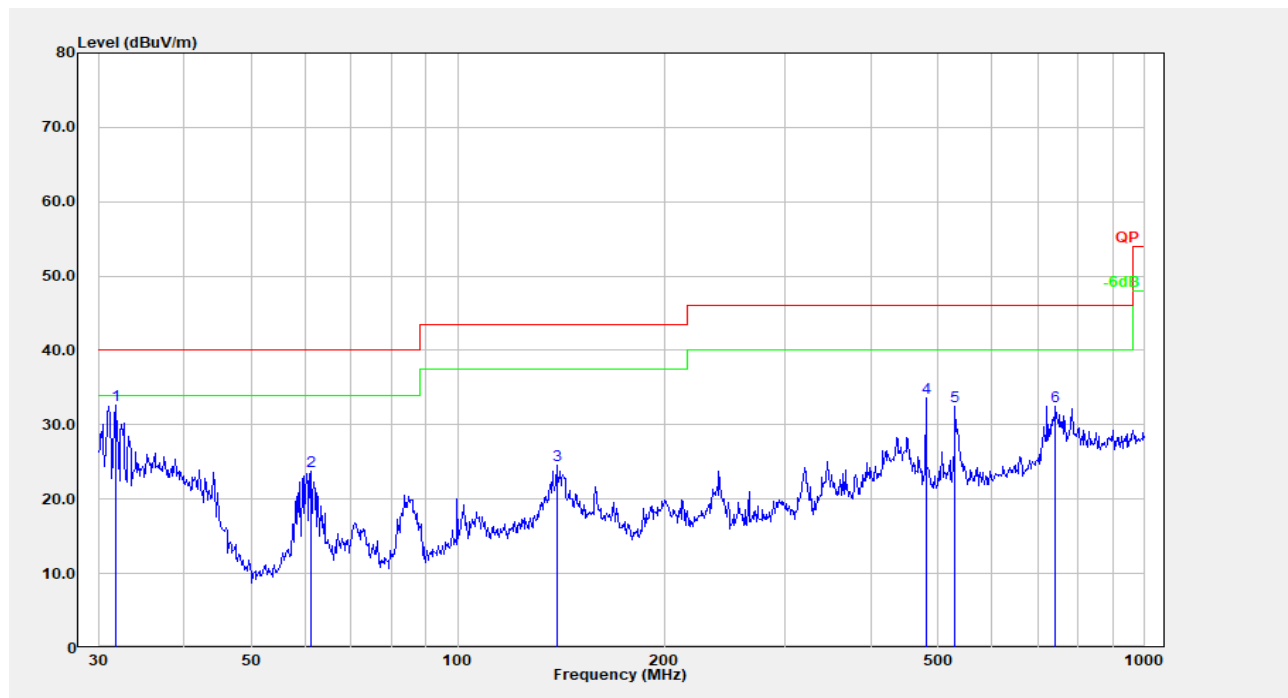
1) 30MHz-1GHz:

Code scanner 1#:

Horizontal:



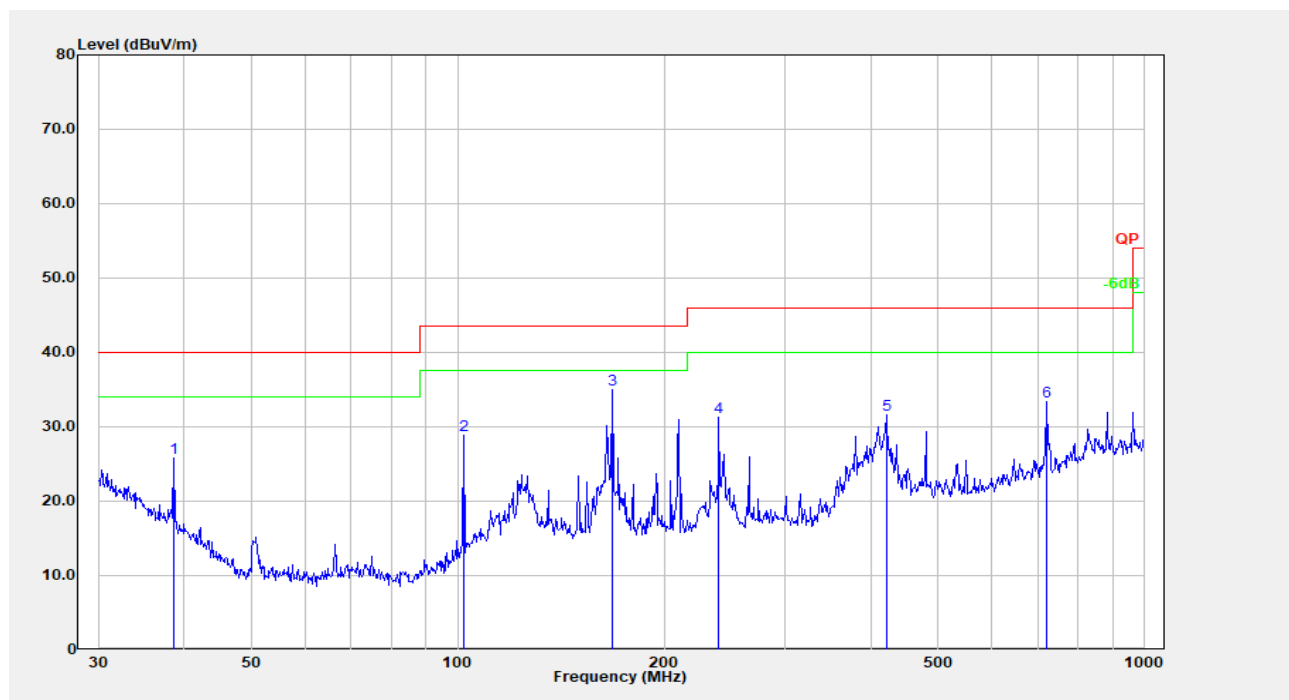
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	60.280	46.62	-17.62	29.00	40.00	11.00	Peak
2	138.874	37.52	-12.07	25.45	43.50	18.05	Peak
3	265.676	40.46	-12.44	28.02	46.00	17.98	Peak
4	318.817	39.62	-10.78	28.85	46.00	17.15	Peak
5	480.528	45.60	-6.49	39.11	46.00	6.89	Peak
6	721.726	40.02	-3.49	36.53	46.00	9.47	Peak

Vertical:

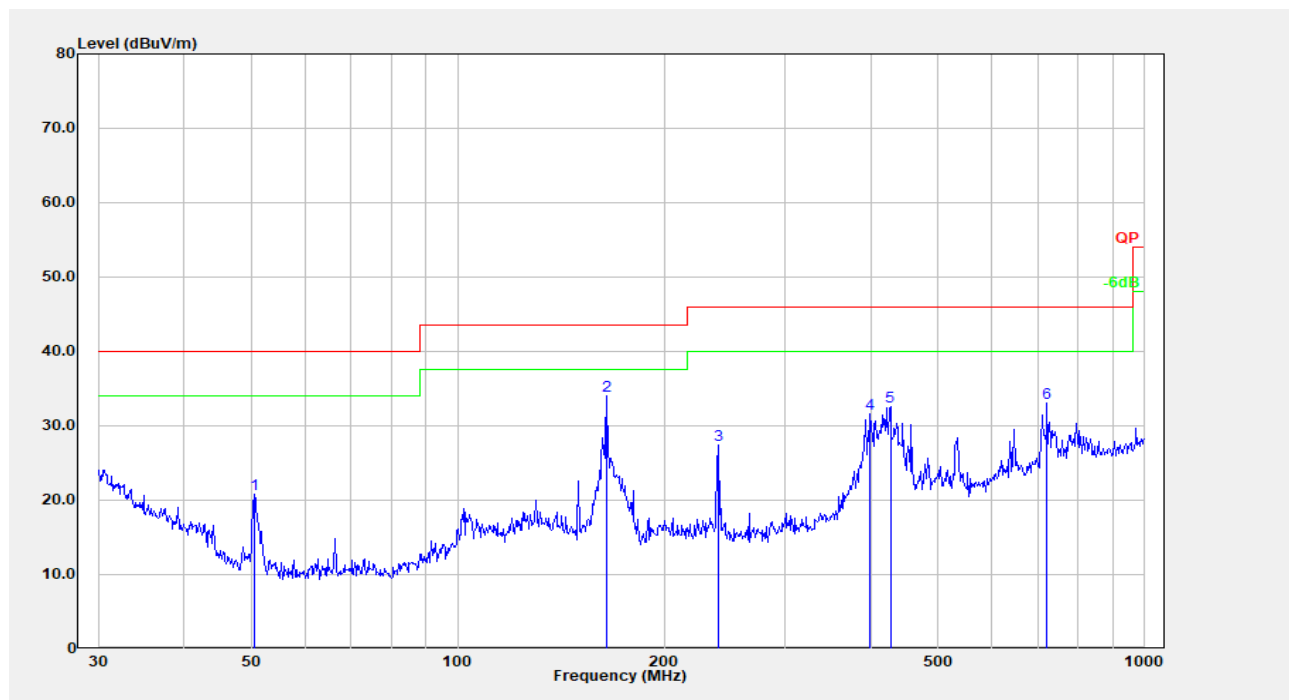
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	31.731	37.81	-5.12	32.69	40.00	7.31	Peak
2	61.132	41.37	-17.57	23.80	40.00	16.20	Peak
3	139.361	36.59	-12.09	24.50	43.50	19.00	Peak
4	480.528	40.04	-6.49	33.55	46.00	12.45	Peak
5	530.101	38.71	-6.19	32.52	46.00	13.48	Peak
6	742.259	35.68	-3.14	32.54	46.00	13.46	Peak

Code scanner 2#:

Horizontal:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	38.616	36.15	-10.41	25.74	40.00	14.26	Peak
2	102.001	43.10	-14.22	28.88	43.50	14.62	Peak
3	167.824	48.02	-12.96	35.05	43.50	8.45	Peak
4	239.987	44.51	-13.17	31.34	46.00	14.66	Peak
5	420.580	39.65	-8.12	31.54	46.00	14.46	Peak
6	721.726	36.94	-3.49	33.45	46.00	12.55	Peak

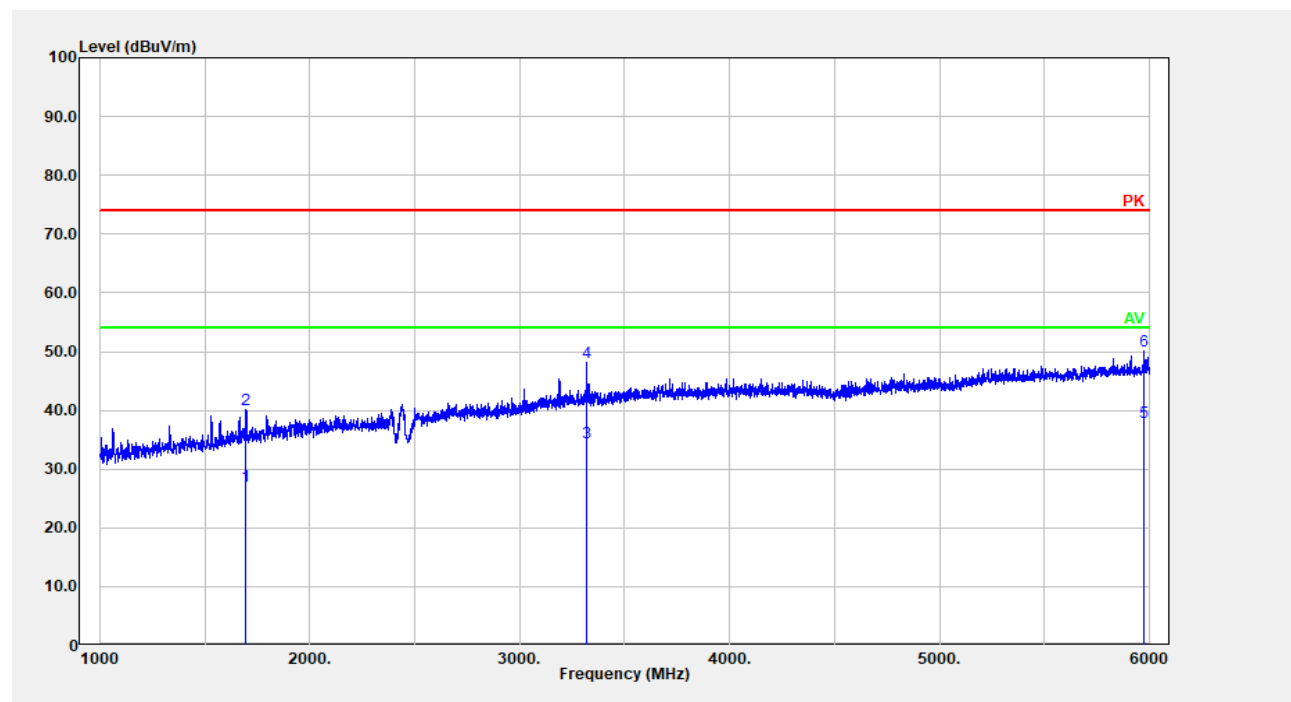
Vertical:

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	50.586	38.24	-17.41	20.83	40.00	19.17	Peak
2	164.908	46.84	-12.77	34.08	43.50	9.42	Peak
3	239.987	40.56	-13.17	27.39	46.00	18.61	Peak
4	399.030	40.58	-9.02	31.56	46.00	14.44	Peak
5	426.521	40.43	-7.86	32.57	46.00	13.43	Peak
6	721.726	36.52	-3.49	33.03	46.00	12.97	Peak

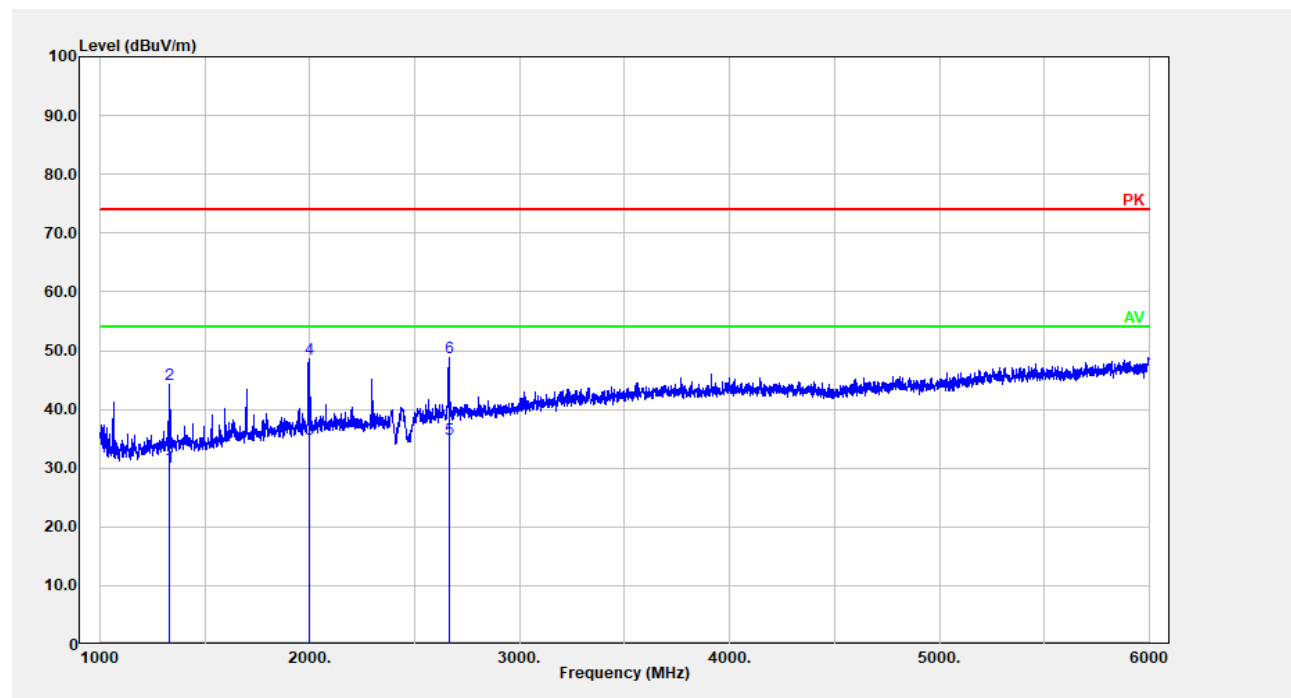
2) Above 1GHz

Code scanner 1#:

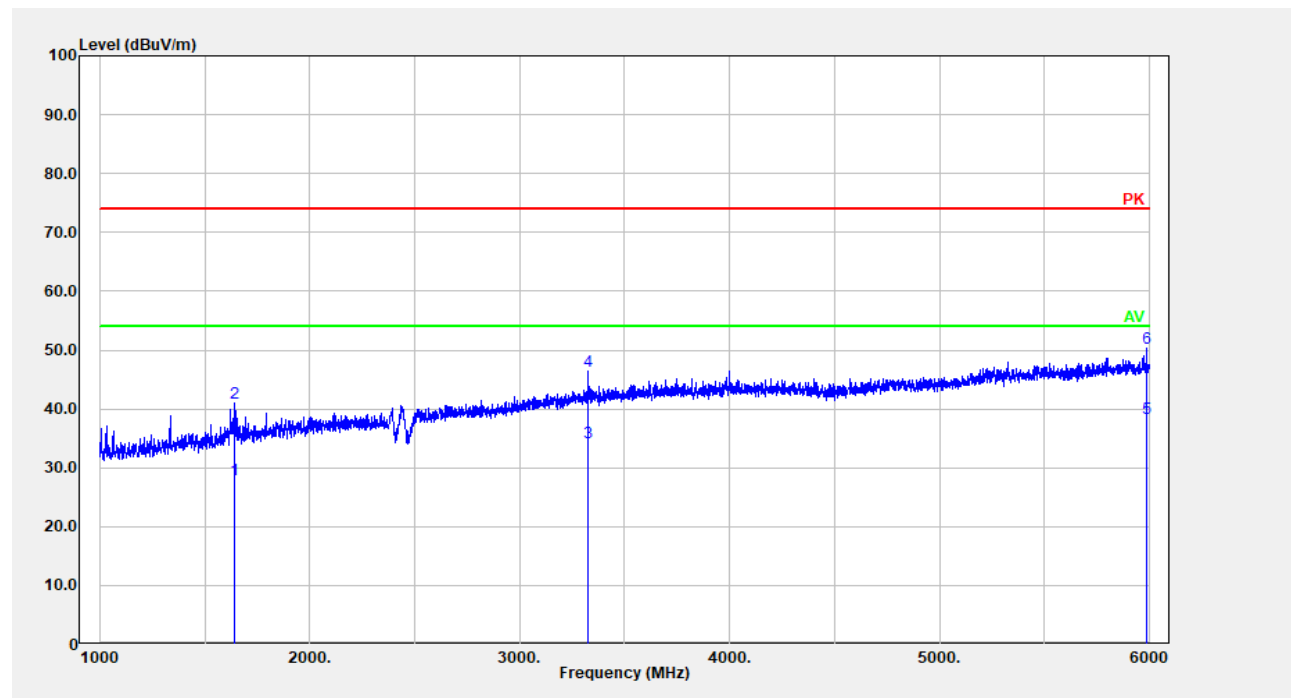
Horizontal:



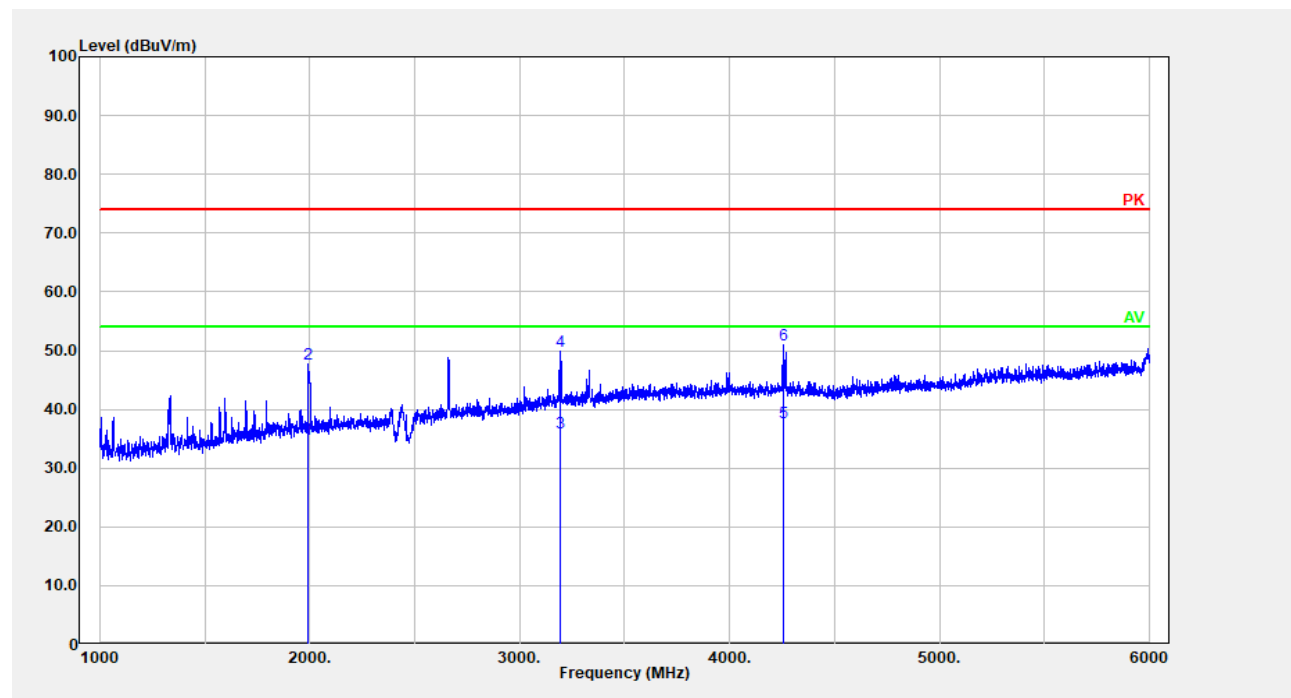
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	1693.139	26.47	0.69	27.16	54.00	26.84	Average
2	1693.139	39.37	0.69	40.06	74.00	33.94	Peak
3	3318.464	26.73	7.71	34.44	54.00	19.56	Average
4	3318.464	40.43	7.71	48.14	74.00	25.86	Peak
5	5972.995	24.55	13.40	37.95	54.00	16.05	Average
6	5972.995	36.81	13.40	50.21	74.00	23.79	Peak

Vertical:

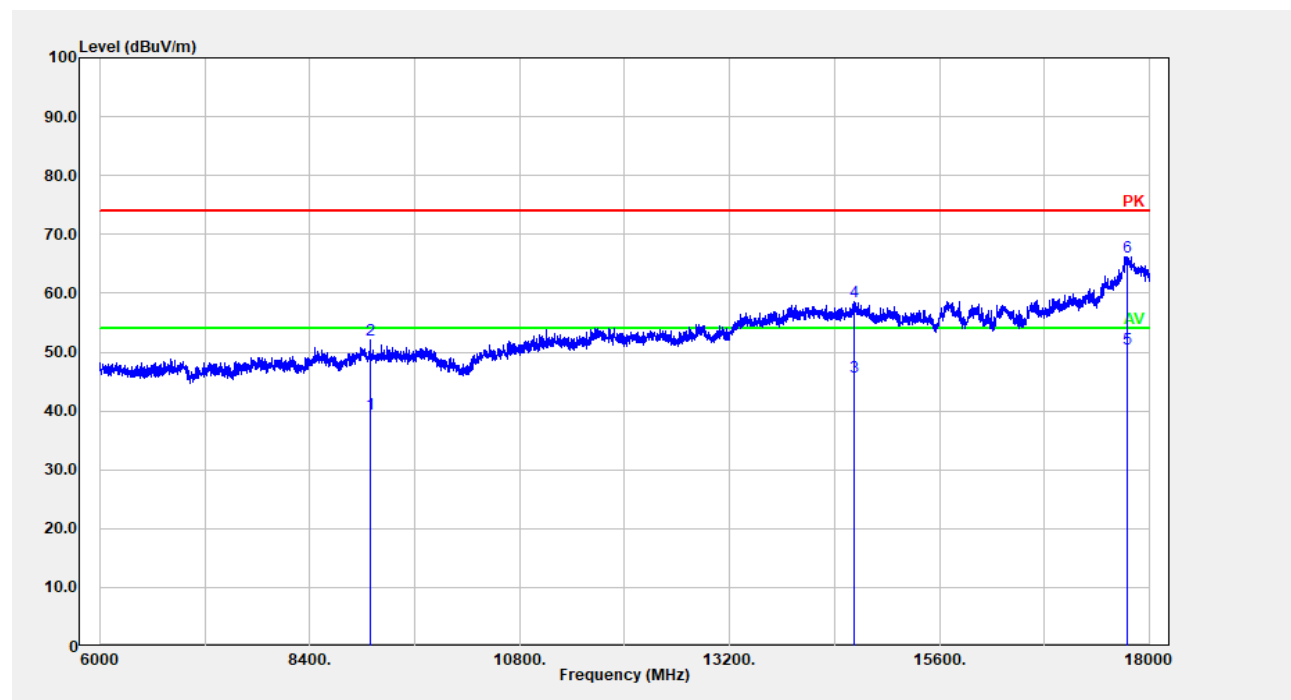
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1330.066	31.29	-1.13	30.16	54.00	23.84	Average
2	1330.066	45.30	-1.13	44.17	74.00	29.83	Peak
3	1998.200	32.59	2.36	34.95	54.00	19.05	Average
4	1998.200	46.26	2.36	48.62	74.00	25.38	Peak
5	2663.333	30.46	4.57	35.03	54.00	18.97	Average
6	2663.333	44.15	4.57	48.72	74.00	25.28	Peak

**Code scanner 2#:
Horizontal:**

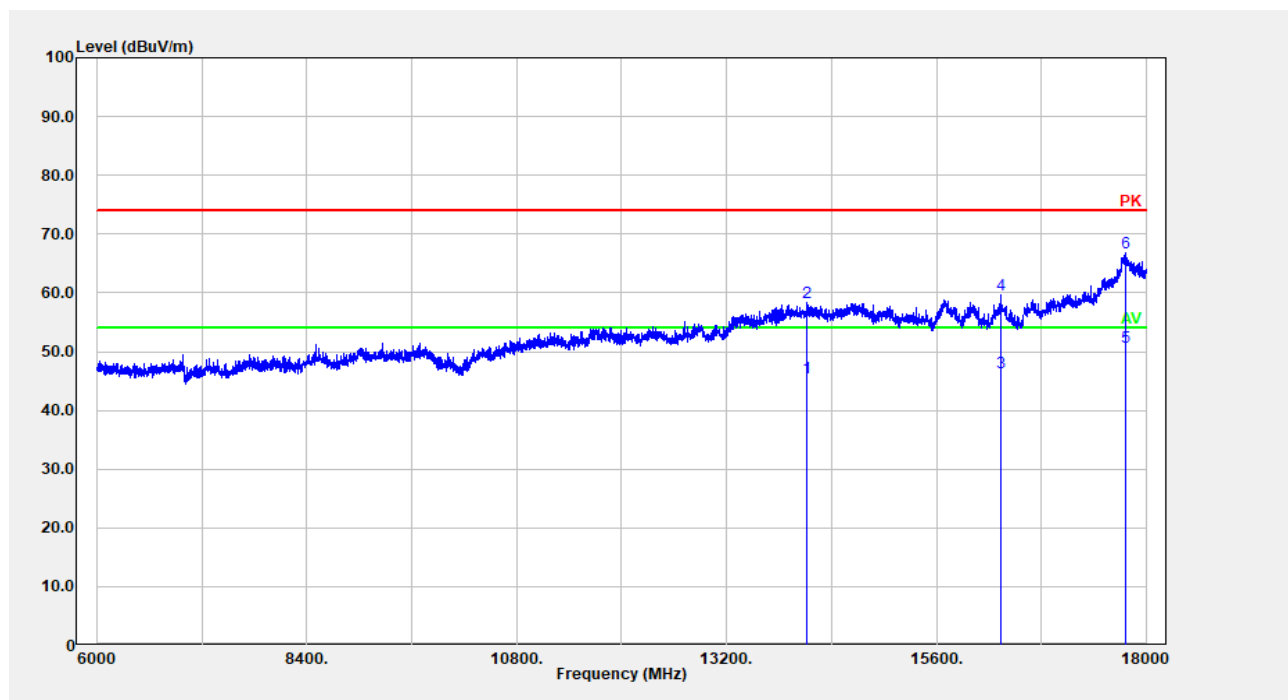
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	1643.129	27.57	0.49	28.06	54.00	25.94	Average
2	1643.129	40.43	0.49	40.92	74.00	33.08	Peak
3	3324.465	26.51	7.74	34.25	54.00	19.75	Average
4	3324.465	38.75	7.74	46.49	74.00	27.51	Peak
5	5985.997	24.83	13.46	38.29	54.00	15.71	Average
6	5985.997	36.97	13.46	50.43	74.00	23.57	Peak

Vertical:

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	1992.198	32.49	2.34	34.83	54.00	19.17	Average
2	1992.198	45.35	2.34	47.69	74.00	26.31	Peak
3	3194.439	28.77	7.17	35.94	54.00	18.06	Average
4	3194.439	42.68	7.17	49.85	74.00	24.15	Peak
5	4259.652	27.94	9.72	37.66	54.00	16.34	Average
6	4259.652	41.33	9.72	51.05	74.00	22.95	Peak

Code scanner 1#:**Horizontal:**

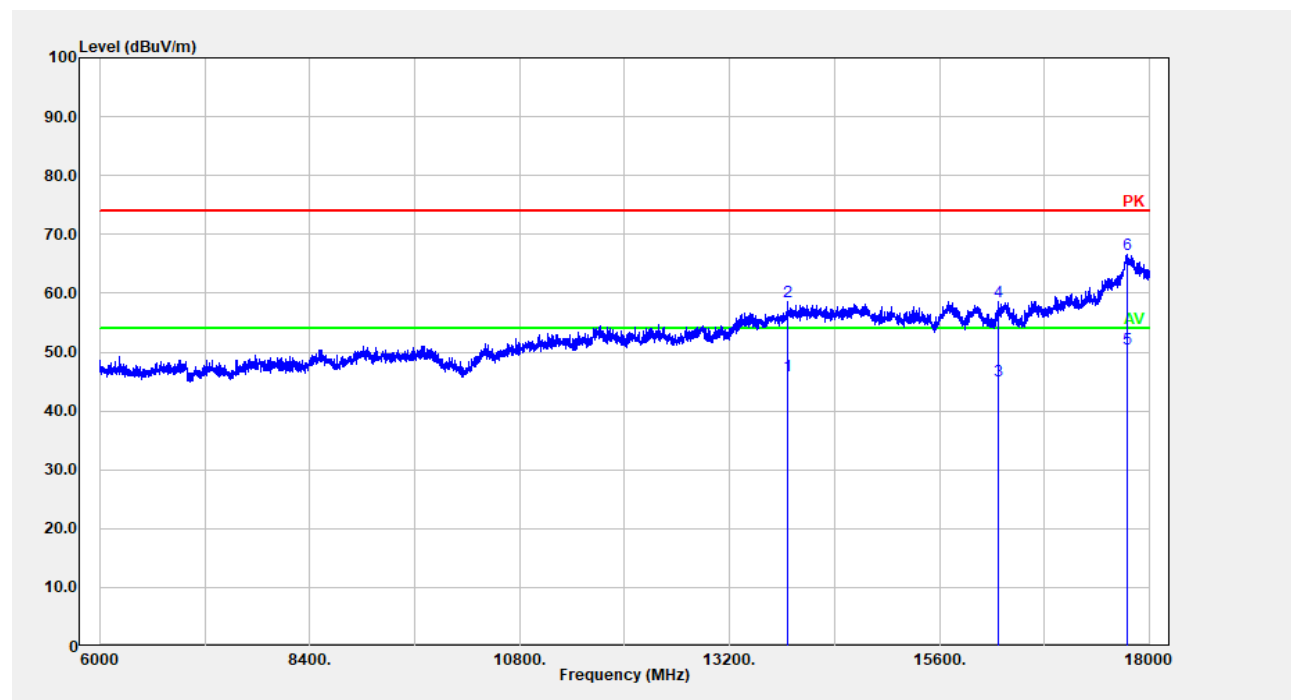
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	9094.219	22.34	17.15	39.49	54.00	14.51	Average
2	9094.219	34.82	17.15	51.97	74.00	22.03	Peak
3	14627.330	21.63	24.21	45.84	54.00	8.16	Average
4	14627.330	34.42	24.21	58.63	74.00	15.37	Peak
5	17745.550	20.97	29.58	50.55	54.00	3.45	Average
6	17745.550	36.61	29.58	66.19	74.00	7.81	Peak

Vertical:

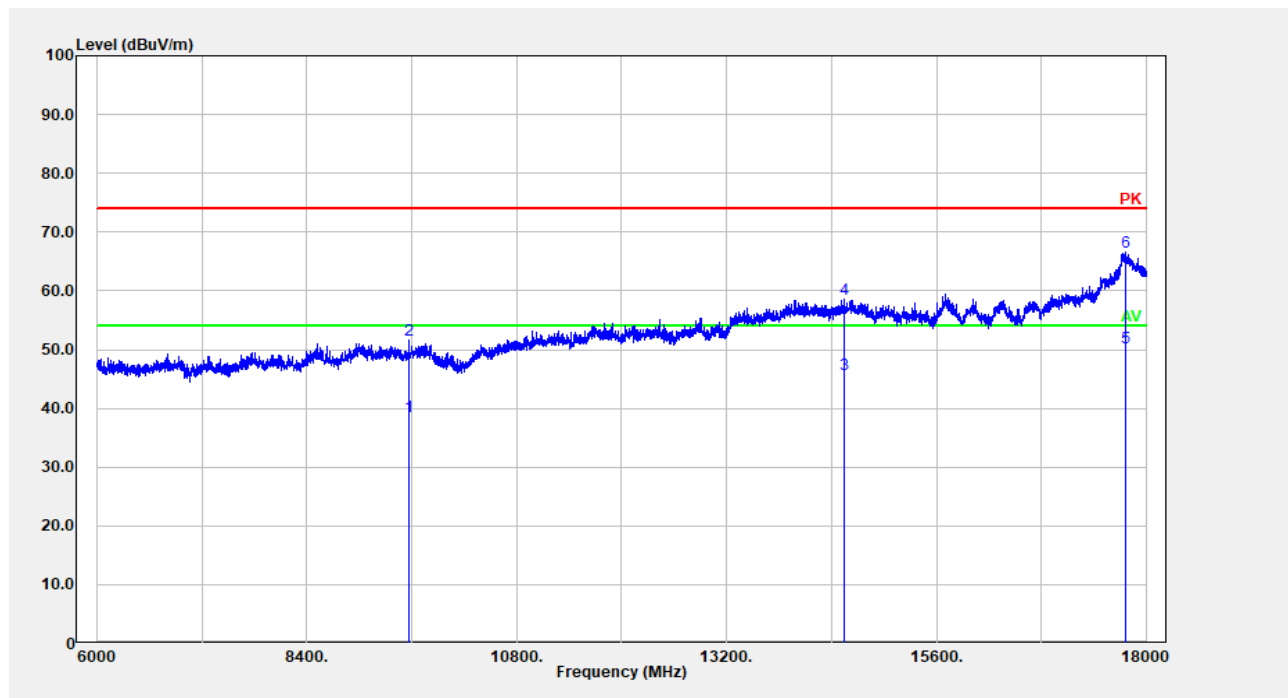
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1	14116.020	21.66	23.94	45.60	54.00	8.40	Average
2	14116.020	34.35	23.94	58.29	74.00	15.71	Peak
3	16334.070	24.82	21.59	46.41	54.00	7.59	Average
4	16334.070	38.04	21.59	59.63	74.00	14.37	Peak
5	17771.960	21.18	29.58	50.76	54.00	3.24	Average
6	17771.960	37.23	29.58	66.81	74.00	7.19	Peak

Code scanner 2#::

Horizontal:



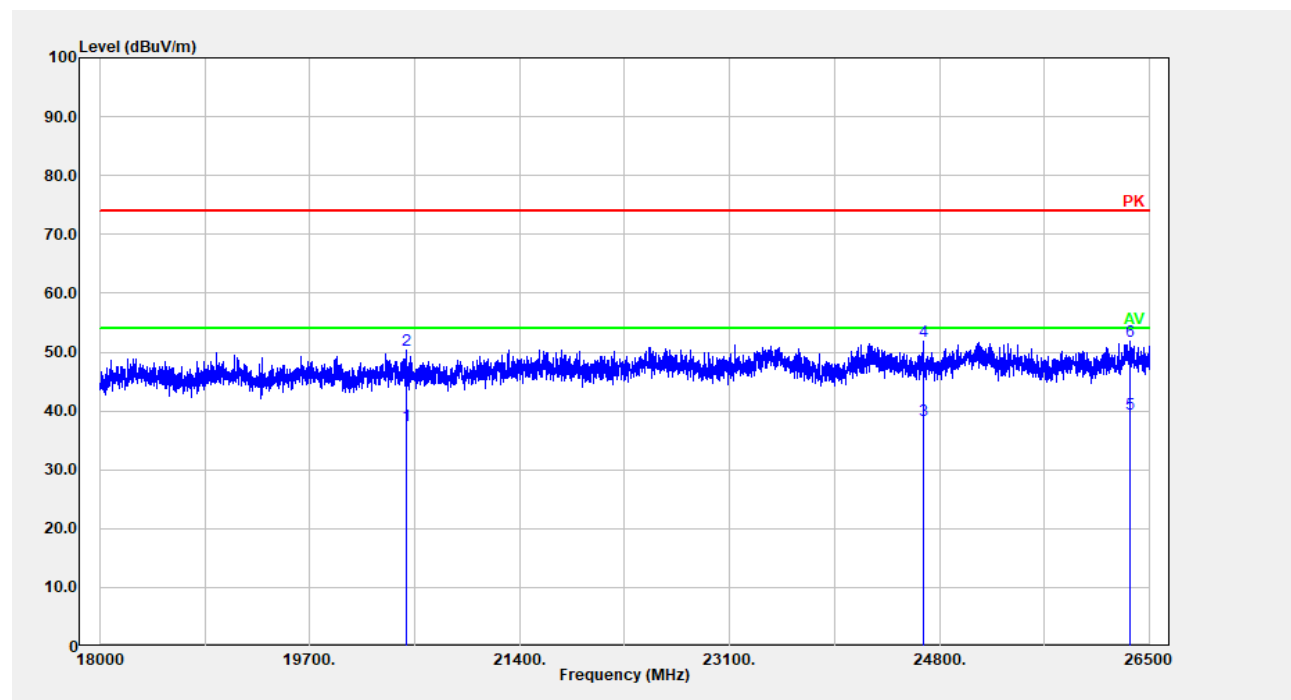
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	13863.970	22.53	23.48	46.01	54.00	7.99	Average
2	13863.970	34.99	23.48	58.47	74.00	15.53	Peak
3	16266.850	23.54	21.58	45.12	54.00	8.88	Average
4	16266.850	36.89	21.58	58.47	74.00	15.53	Peak
5	17755.150	20.87	29.58	50.45	54.00	3.55	Average
6	17755.150	36.94	29.58	66.52	74.00	7.48	Peak

Vertical:

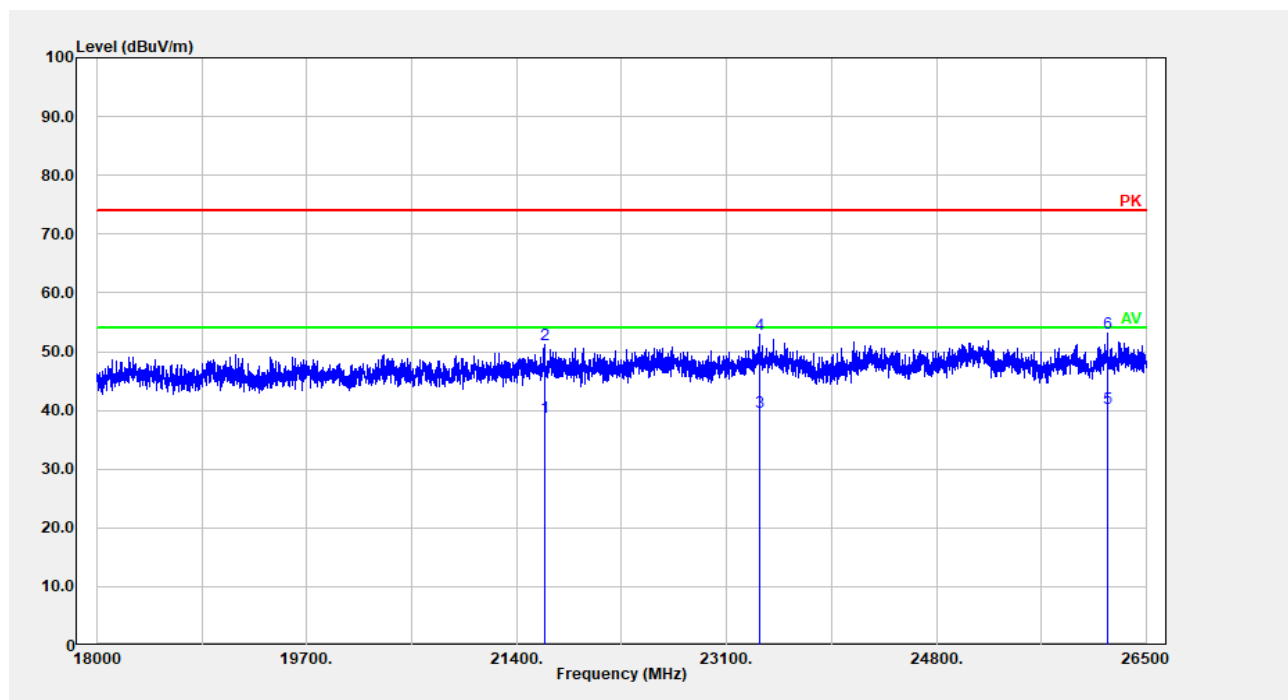
No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	9569.514	21.06	17.63	38.69	54.00	15.31	Average
2	9569.514	34.03	17.63	51.66	74.00	22.34	Peak
3	14548.110	21.59	24.20	45.79	54.00	8.21	Average
4	14548.110	34.32	24.20	58.52	74.00	15.48	Peak
5	17762.350	20.67	29.58	50.25	54.00	3.75	Average
6	17762.350	36.92	29.58	66.50	74.00	7.50	Peak

Code scanner 1#:

Horizontal:



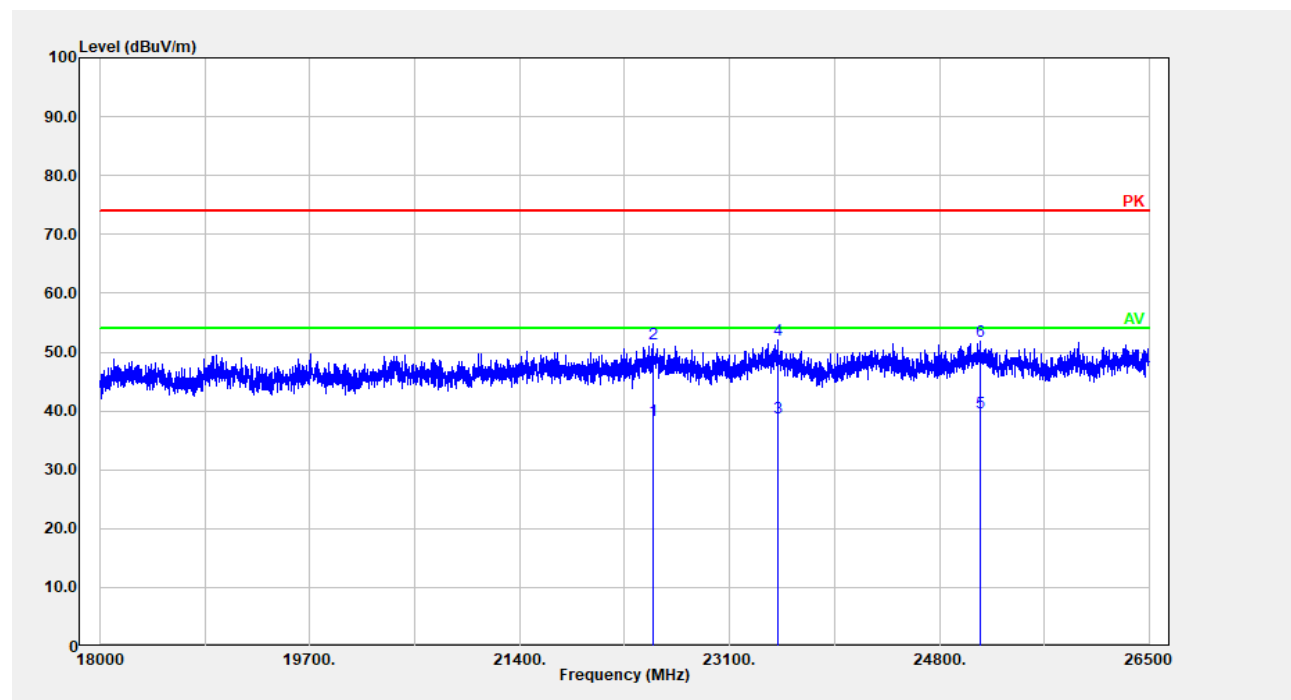
No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	20482.500	30.76	6.66	37.42	54.00	16.58	Average
2	20482.500	43.62	6.66	50.28	74.00	23.72	Peak
3	24673.830	27.36	11.12	38.48	54.00	15.52	Average
4	24673.830	40.75	11.12	51.87	74.00	22.13	Peak
5	26341.870	26.84	12.68	39.52	54.00	14.48	Average
6	26341.870	39.25	12.68	51.93	74.00	22.07	Peak

Vertical:

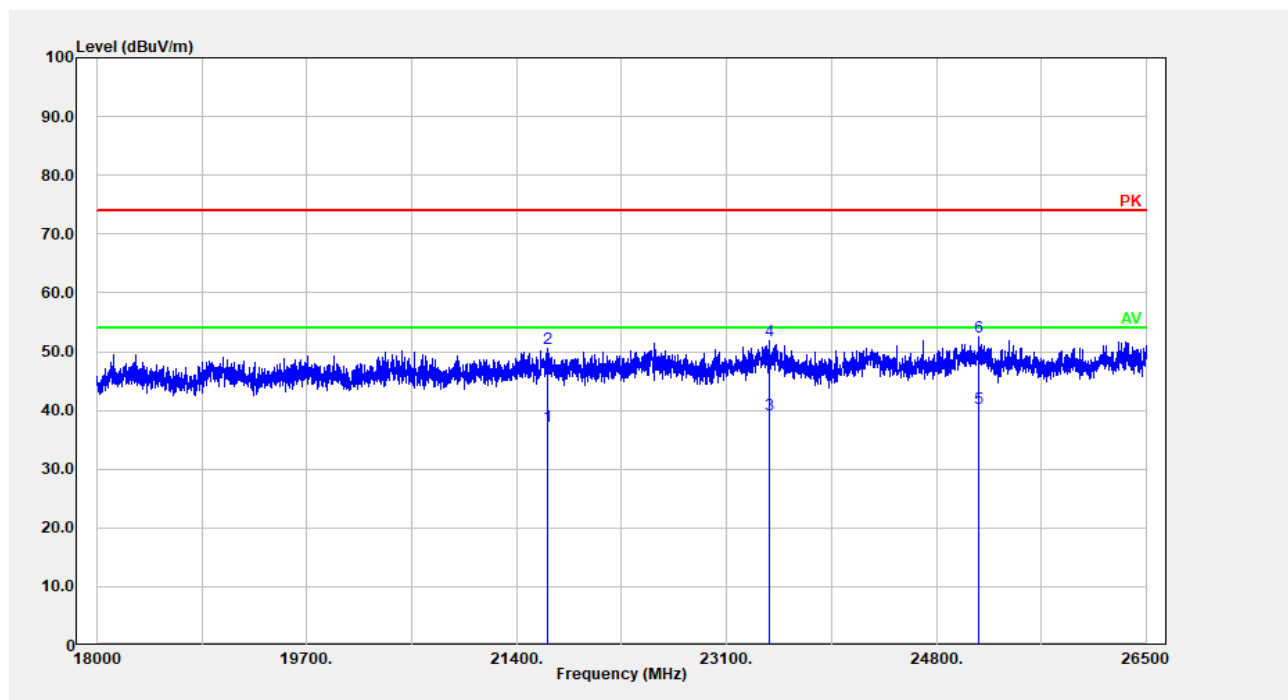
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1	21625.130	30.06	8.75	38.81	54.00	15.19	Average
2	21625.130	42.38	8.75	51.13	74.00	22.87	Peak
3	23369.670	28.60	11.01	39.61	54.00	14.39	Average
4	23369.670	41.93	11.01	52.94	74.00	21.06	Peak
5	26187.140	27.45	12.96	40.41	54.00	13.59	Average
6	26187.140	40.21	12.96	53.17	74.00	20.83	Peak

Code scanner 2#:

Horizontal:



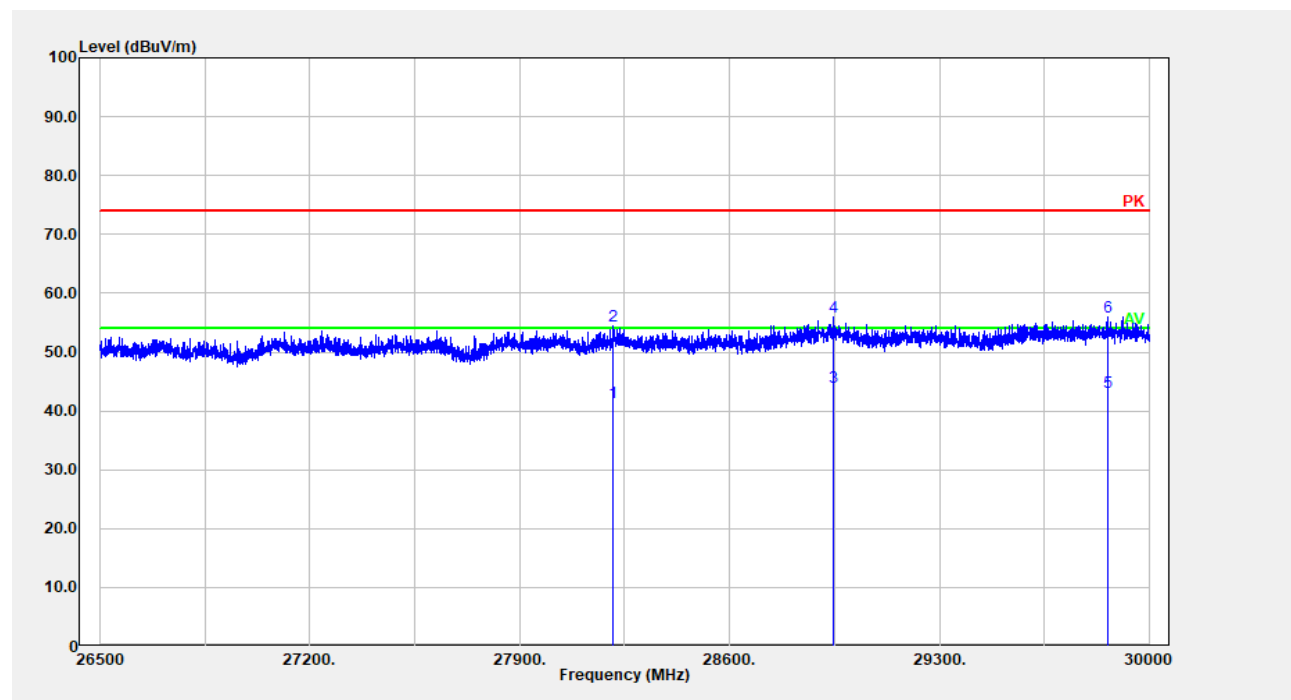
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	22483.800	27.38	11.06	38.44	54.00	15.56	Average
2	22483.800	40.41	11.06	51.47	74.00	22.53	Peak
3	23493.800	27.51	11.37	38.88	54.00	15.12	Average
4	23493.800	40.62	11.37	51.99	74.00	22.01	Peak
5	25127.830	26.79	12.95	39.74	54.00	14.26	Average
6	25127.830	39.00	12.95	51.95	74.00	22.05	Peak

Vertical:

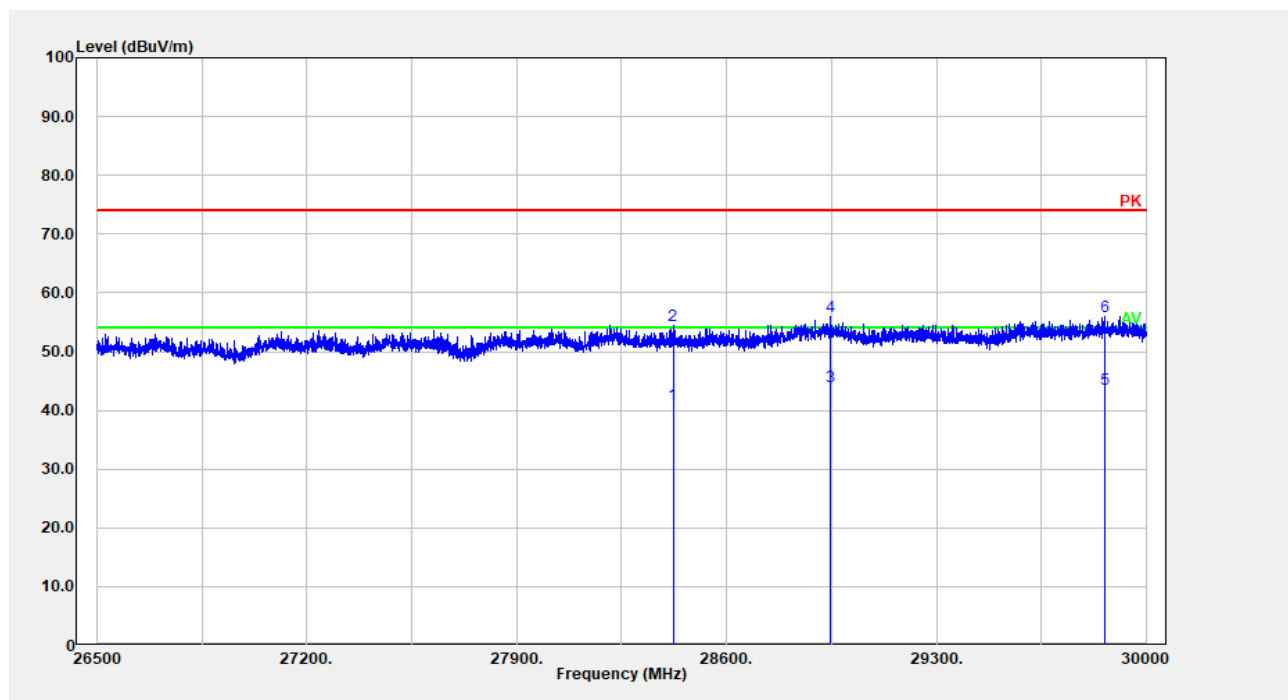
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	21652.330	28.62	8.74	37.36	54.00	16.64	Average
2	21652.330	41.77	8.74	50.51	74.00	23.49	Peak
3	23447.890	27.96	11.24	39.20	54.00	14.80	Average
4	23447.890	40.52	11.24	51.76	74.00	22.24	Peak
5	25141.430	27.24	13.04	40.28	54.00	13.72	Average
6	25141.430	39.41	13.04	52.45	74.00	21.55	Peak

Code scanner 1#:

Horizontal:



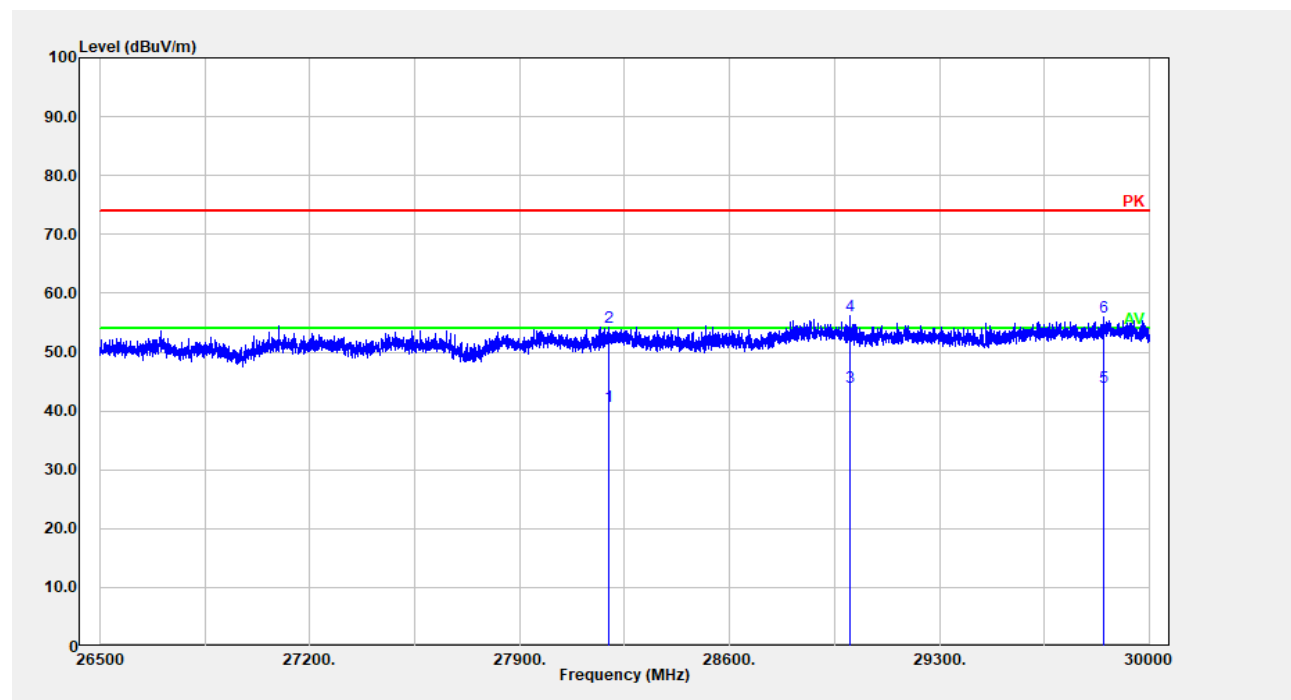
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	28212.540	27.53	13.86	41.39	54.00	12.61	Average
2	28212.540	40.51	13.86	54.37	74.00	19.63	Peak
3	28944.890	29.40	14.70	44.10	54.00	9.90	Average
4	28944.890	41.22	14.70	55.92	74.00	18.08	Peak
5	29859.970	28.67	14.60	43.27	54.00	10.73	Average
6	29859.970	41.31	14.60	55.91	74.00	18.09	Peak

Vertical:

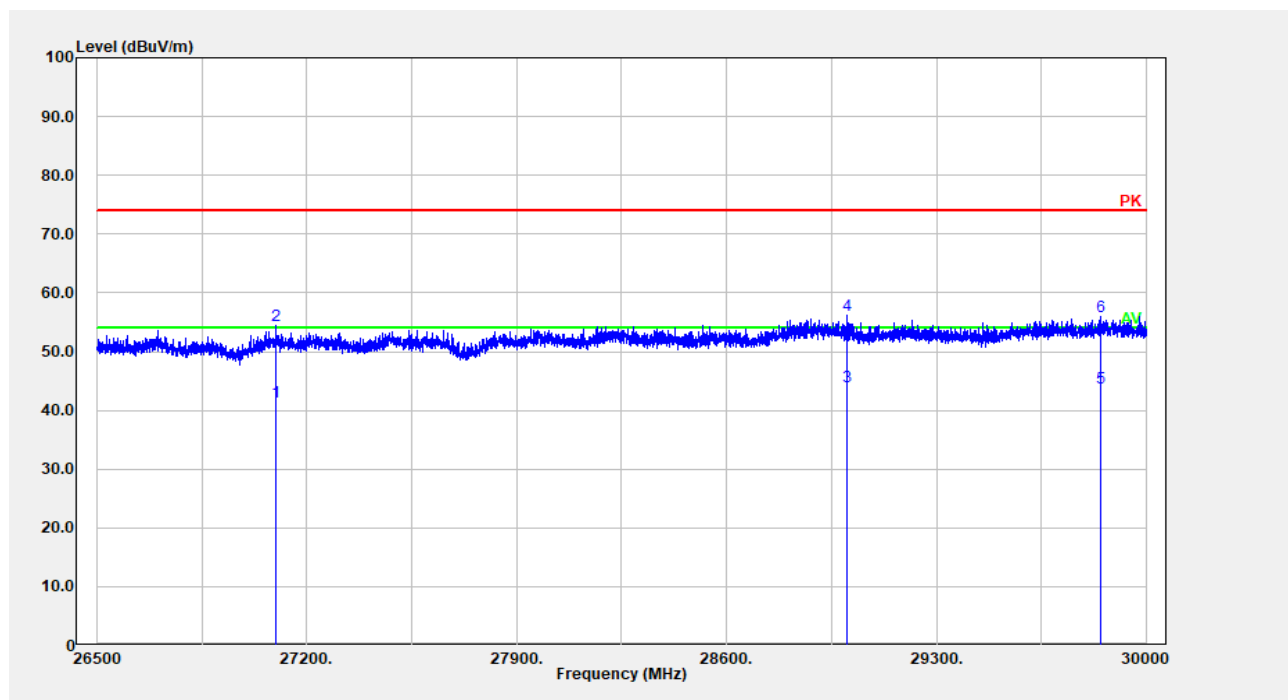
No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	28421.180	27.10	13.95	41.05	54.00	12.95	Average
2	28421.180	40.42	13.95	54.37	74.00	19.63	Peak
3	28944.890	29.31	14.70	44.01	54.00	9.99	Average
4	28944.890	41.22	14.70	55.92	74.00	18.08	Peak
5	29859.970	29.04	14.60	43.64	54.00	10.36	Average
6	29859.970	41.31	14.60	55.91	74.00	18.09	Peak

Code scanner 2#:

Horizontal:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	28195.040	26.89	13.96	40.85	54.00	13.15	Average
2	28195.040	40.30	13.96	54.26	74.00	19.74	Peak
3	29003.700	29.43	14.58	44.01	54.00	9.99	Average
4	29003.700	41.71	14.58	56.29	74.00	17.71	Peak
5	29845.970	29.27	14.67	43.94	54.00	10.06	Average
6	29845.970	41.30	14.67	55.97	74.00	18.03	Peak

Vertical:

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	27096.520	27.37	14.09	41.46	54.00	12.54	Average
2	27096.520	40.32	14.09	54.41	74.00	19.59	Peak
3	29003.700	29.41	14.58	43.99	54.00	10.01	Average
4	29003.700	41.71	14.58	56.29	74.00	17.71	Peak
5	29845.970	29.05	14.67	43.72	54.00	10.28	Average
6	29845.970	41.30	14.67	55.97	74.00	18.03	Peak

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