



**中认信通**

CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)



## TEST REPORT

**Applicant:** Shanghai Sunmi Technology Co.,Ltd.

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

**FCC ID:** 2AH25T8910B

**Product Name:** Handheld Wireless Terminal

**Model Number:** T8910

**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:** CR22050079-00A

**Date Of Issue:** 2022-08-16

**Reviewed By:** Sun Zhong *Sun Zhong*

Title: Manager

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

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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

TEST FACILITY .....	2
DECLARATIONS.....	2
<b>1. GENERAL INFORMATION.....</b>	<b>4</b>
1.1 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT) .....	4
1.2 DESCRIPTION OF TEST CONFIGURATION .....	5
1.2.4 Block Diagram of Test Setup.....	6
1.3 MEASUREMENT UNCERTAINTY .....	8
<b>2. SUMMARY OF TEST RESULTS .....</b>	<b>9</b>
<b>3. REQUIREMENTS AND TEST PROCEDURES .....</b>	<b>10</b>
3.1 AC LINE CONDUCTED EMISSIONS .....	10
3.1.1 EUT Setup.....	10
3.1.2 EMI Test Receiver Setup .....	10
3.1.3 Test Procedure .....	11
3.1.4 Corrected Amplitude & Margin Calculation.....	11
3.2 RADIATION SPURIOUS EMISSIONS .....	12
3.2.1 EUT Setup.....	12
3.2.2 EMI Test Receiver Setup .....	13
3.2.3 Test Procedure .....	13
3.2.4 Corrected Amplitude & Margin Calculation.....	13
<b>4. TEST DATA AND RESULTS.....</b>	<b>14</b>
4.1 AC LINE CONDUCTED EMISSIONS .....	14
4.2 RADIATION SPURIOUS EMISSIONS .....	21

## 1. GENERAL INFORMATION

### 1.1 Product Description for Equipment under Test (EUT)

<b>EUT Name:</b>	Handheld Wireless Terminal
<b>EUT Model:</b>	T8910
<b>Highest Operation Frequency:</b>	5825 MHz
<b>Rated Input Voltage:</b>	DC 5V charging from adapter and DC 3.8V by battery
<b>Serial Number:</b>	CR220050079-RF-S1(Type-1) CR220050079-RF-S2(Type-2) CR220050079-RF-S3(Type-3)
<b>EUT Received Date:</b>	2022.05.25
<b>EUT Received Status:</b>	Good
Note: The EUT model has three configurations that Type-1 is code scanner model 3603, Type-2 is code scanner model 4170 and Type-3 is code scanner model NG001.	

### Accessory Information:

Accessory Description	Manufacturer	Model	Parameters
Adapter 1	SHENZHEN TIANYIN ELECTRONICS CO.,LTD.	TPA-23A050200UU01	Input: AC 100-240V~50/60Hz 0.3A Output: DC 5.0V, 2000mA
Adapter 2	JIANGSU CHENYANG ELECTRON CO.,LTD.	UC13US	Input: 100-240V~50/60Hz 0.35A Output: DC 5.0V, 2A
USB Cable	Unknown	Unknown	Unshielded, 1.2m

## 1.2 Description of Test Configuration

### 1.2.1 EUT Operation Condition:

<b>EUT Operation Mode:</b>	The system was configured for testing in Typical Use Mode, which was provided by the manufacturer. Test Mode: M1: Normal working & Charging with Adapter 1 M2: Normal working & Charging with Adapter 2 M3: Downloading
<b>Equipment Modifications:</b>	No
<b>EUT Exercise Software:</b>	No

### 1.2.2 Support Equipment List and Details

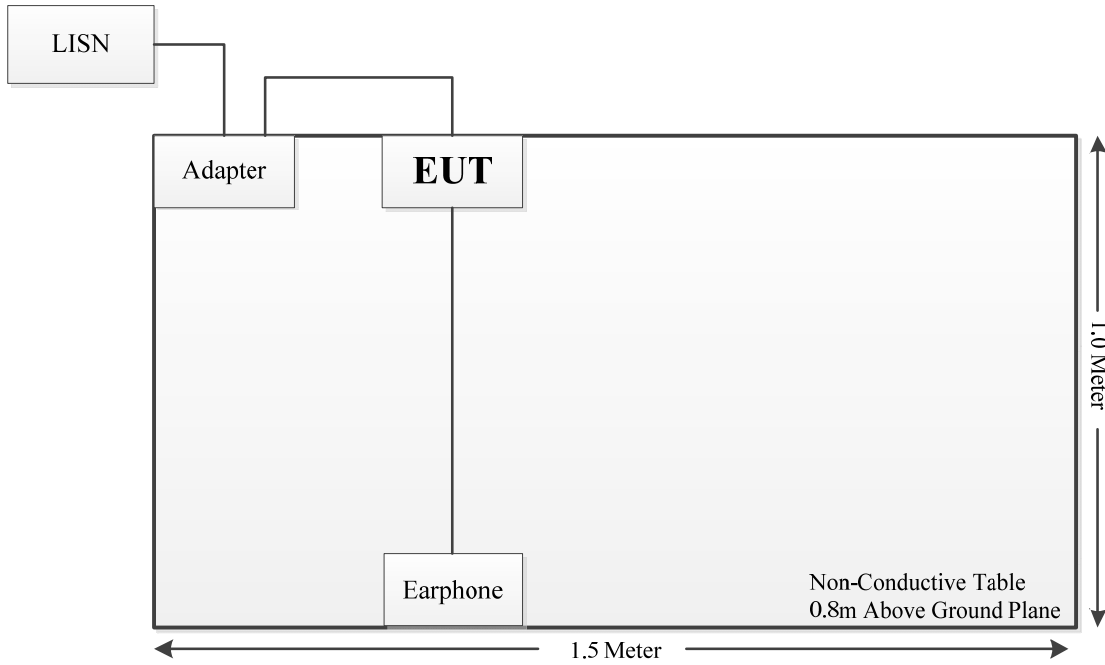
Manufacturer	Description	Model	Serial Number
PHILIPS	Keyboard	SPT6234	K234210510746
PHILIPS	Mouse	SPT6234	C234210506222
DELL	Laptop	E6410	GYXJ3 A00 JSD2
DELL	Adapter	HA65NM130	CN-OFPC2Y-CH200-14M-061U-A07

### 1.2.3 Support Cable List and Details

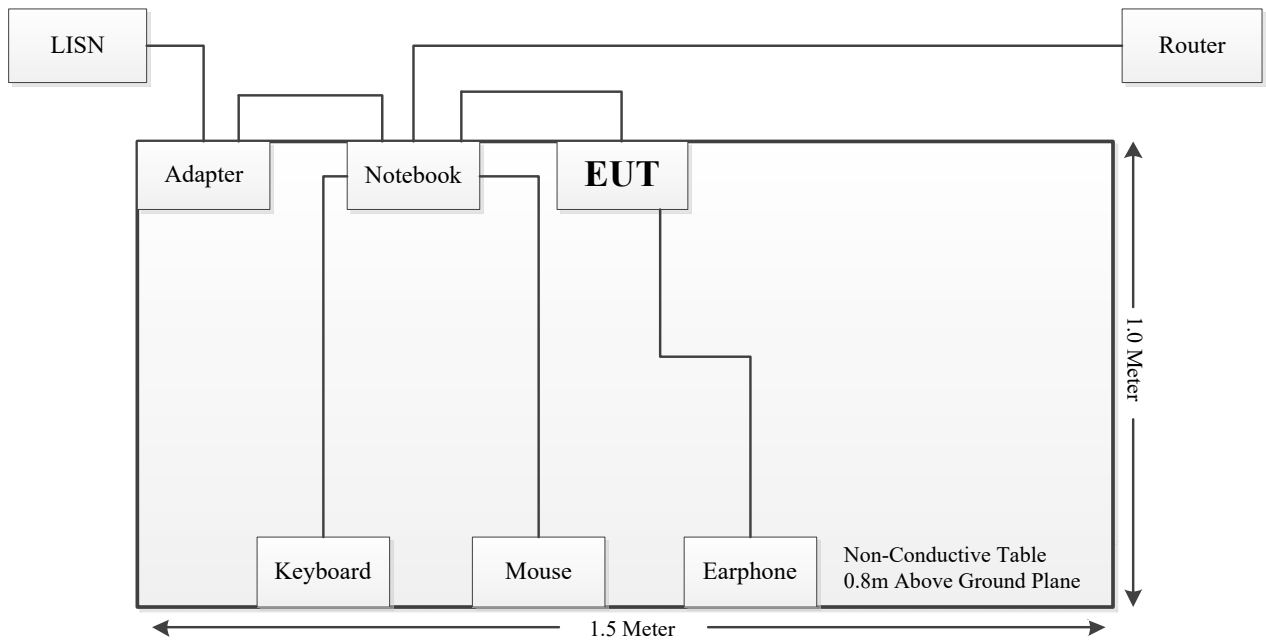
Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
Power Cable	No	No	1.2	Adapter	LISN
Power Cable	No	Yes	1.5	Laptop	Adapter
Mouse Cable	No	No	1.5	Mouse	Laptop
Keyboard Cable	No	No	1.5	Keyboard	Laptop
RJ45 Cable	No	No	1	Laptop	Router

### 1.2.4 Block Diagram of Test Setup

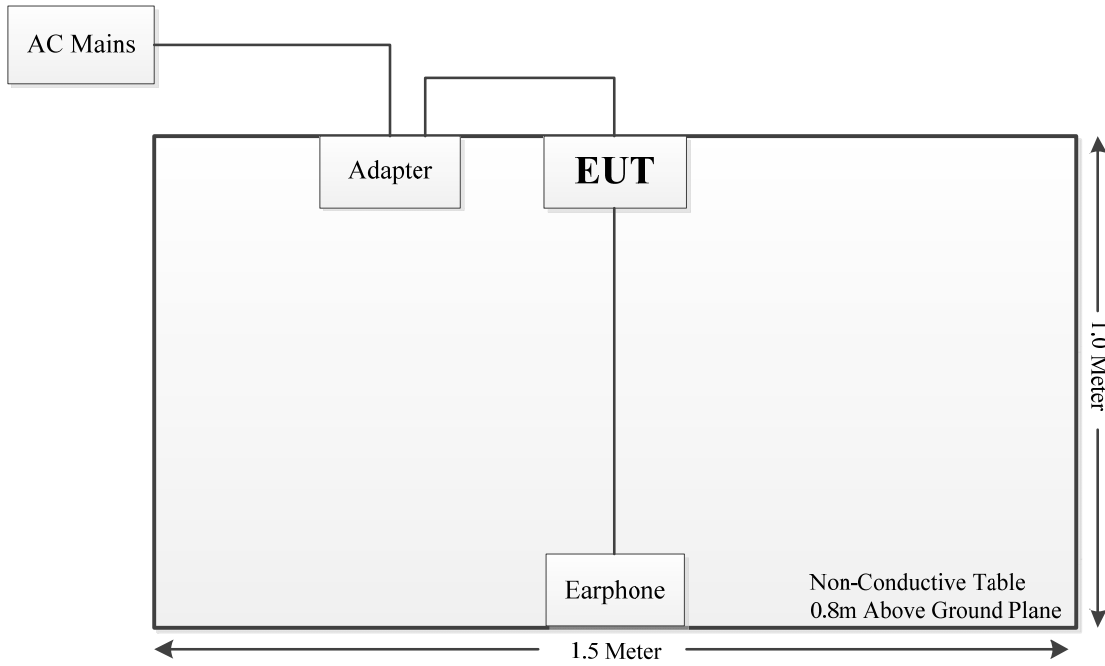
Conducted emissions:  
M1&M2



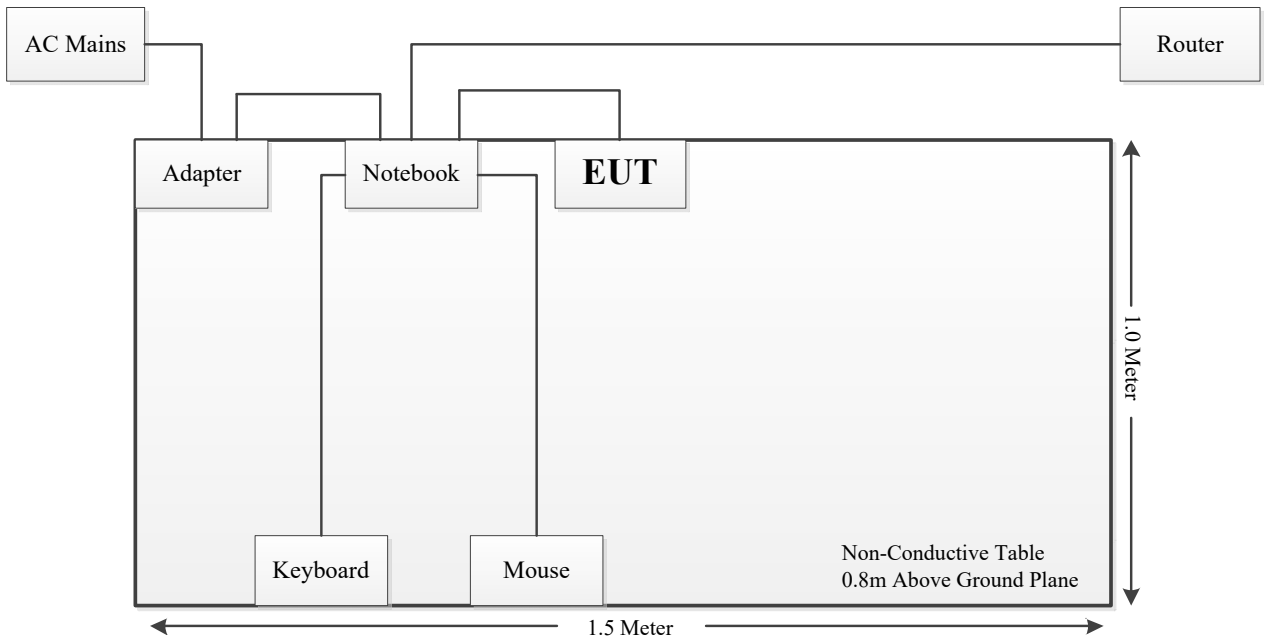
M3:



Radiated emissions:  
M1&M2



M3:



### 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°C
Humidity	±5%
AC Power Lines Conducted Emission	2.8 dB (150 kHz to 30 MHz)



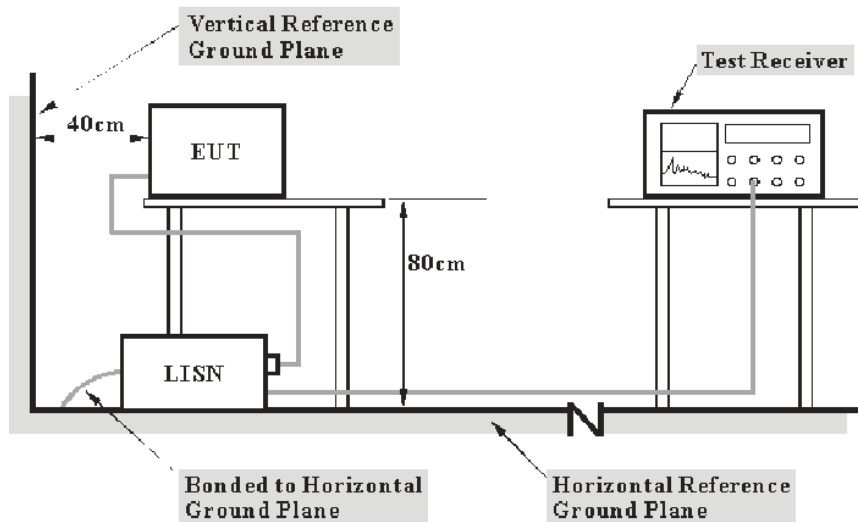
## 2. SUMMARY OF TEST RESULTS

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

### 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

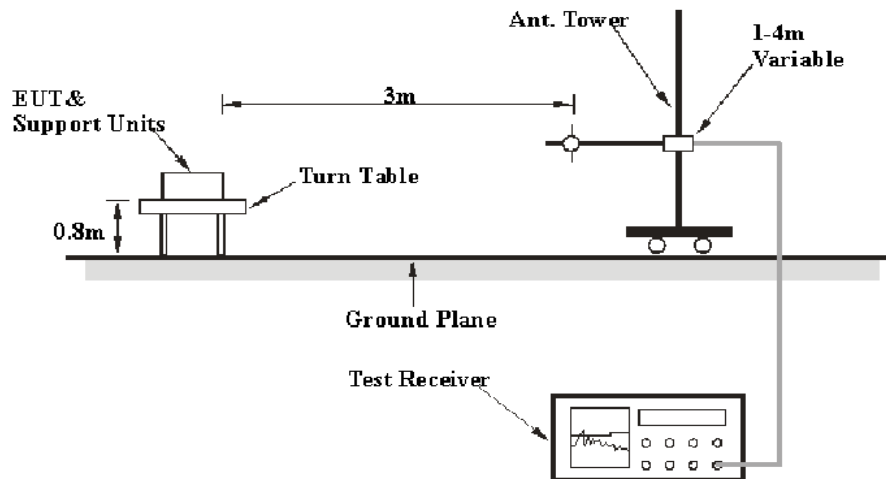
The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

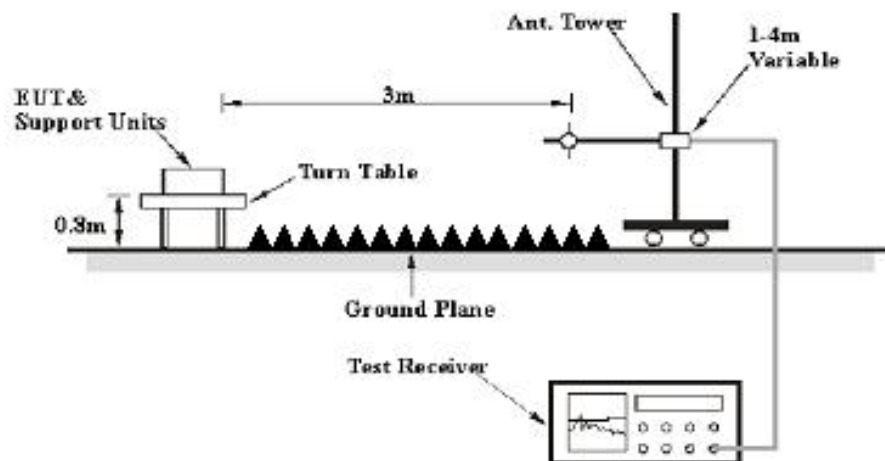
## 3.2 Radiation Spurious Emissions

### 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 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	Detector
30 MHz – 1000 MHz	120 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1 MHz	3 MHz	/	Peak
	1 MHz	3 MHz	/	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:

$$\text{Result} = \text{Reading} + \text{Factor}$$

$$\text{Factor} = \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

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:

$$\text{Margin} = \text{Limit} - \text{Result}$$

## 4. TEST DATA AND RESULTS

### 4.1 AC Line Conducted Emissions

Serial Number:	CR220050079-RF-S1(Type-1) CR220050079-RF-S2(Type-2) CR220050079-RF-S3(Type-3)	Test Date:	2022-07-27~2022-08-12
Test Site:	CE	Test Mode:	M1, M2, M3
Tester:	Vic Du	Test Result:	Pass

#### Environmental Conditions:

Temperature: (°C)	27.1~27.8	Relative Humidity: (%)	60~70	ATM Pressure: (kPa)	100.1~100.2
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#### Test Equipment List and Details:

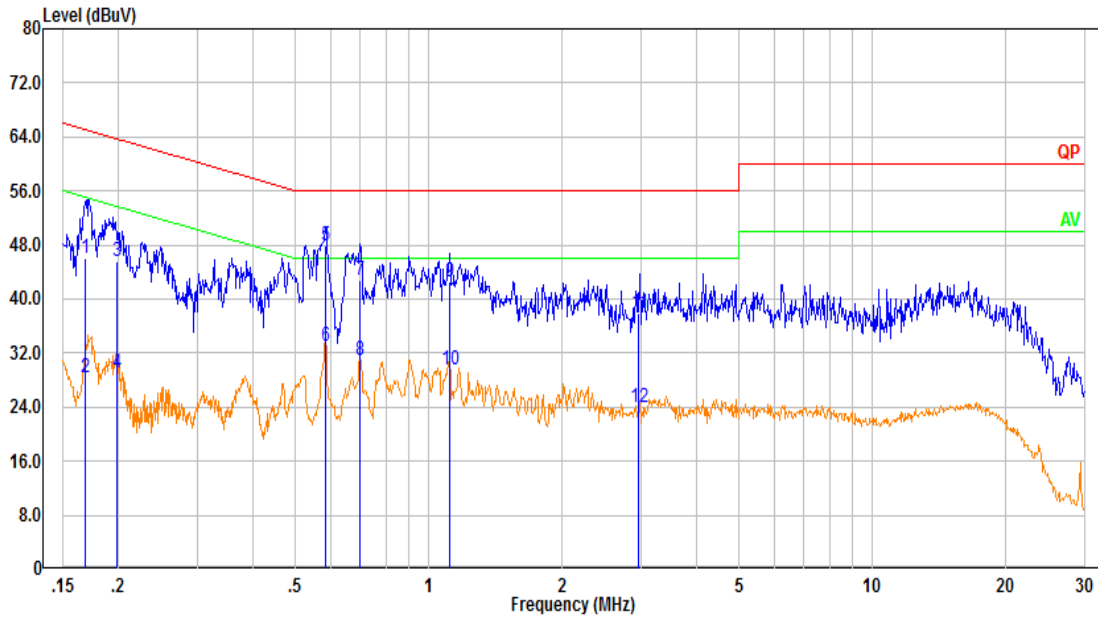
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101134	2022-04-01	2023-03-31
R&S	LISN	ENV216	101132	2022-04-01	2023-03-31
R&S	EMI Test Receiver	ESR3	102726	2022-07-15	2023-07-14
MICRO-COAX	Coaxial Cable	UTIFLEX	C-0200-01	2021-08-08	2022-08-07
MICRO-COAX	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).

**Type-1 was the worst:**

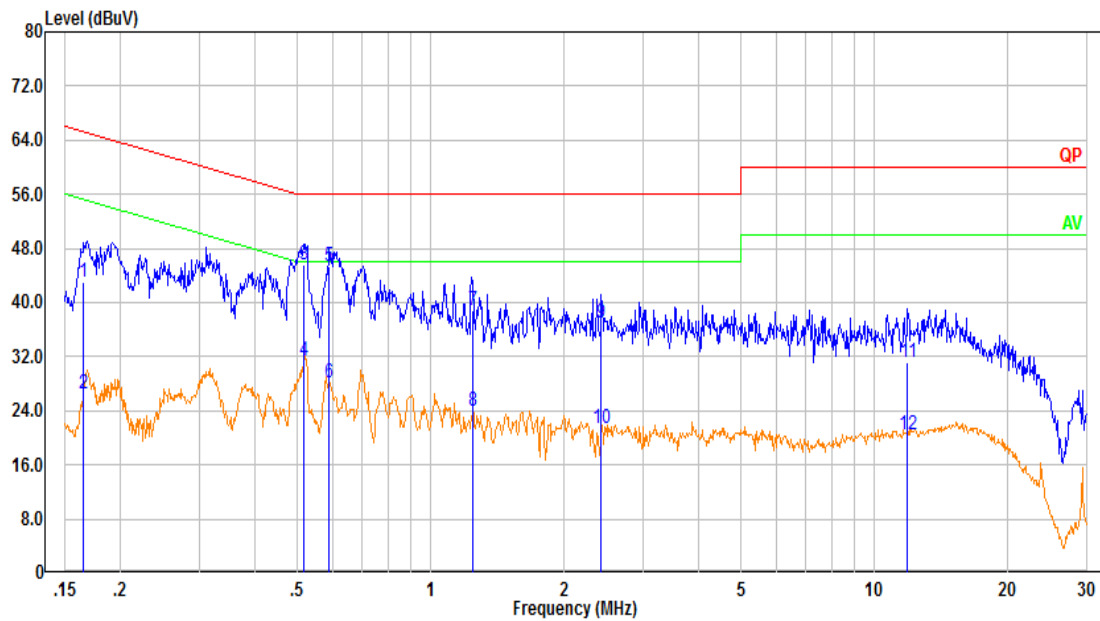
**M1**

Line:



No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB)	Result (dB $\mu$ V)	Limit (dB $\mu$ V)	Margin (dB)	Detector
1	0.168	36.39	9.61	46.00	65.08	19.08	QP
2	0.168	18.68	9.61	28.29	55.08	26.79	Average
3	0.199	36.01	9.61	45.62	63.67	18.05	QP
4	0.199	19.37	9.61	28.98	53.67	24.69	Average
5	0.586	38.21	9.62	47.82	56.00	8.18	QP
6	0.586	23.39	9.62	33.01	46.00	12.99	Average
7	0.698	33.06	9.62	42.68	56.00	13.32	QP
8	0.698	21.28	9.62	30.90	46.00	15.10	Average
9	1.112	32.94	9.62	42.56	56.00	13.44	QP
10	1.112	19.80	9.62	29.42	46.00	16.58	Average
11	2.974	28.34	9.65	37.99	56.00	18.01	QP
12	2.974	14.22	9.65	23.87	46.00	22.13	Average

Neutral:

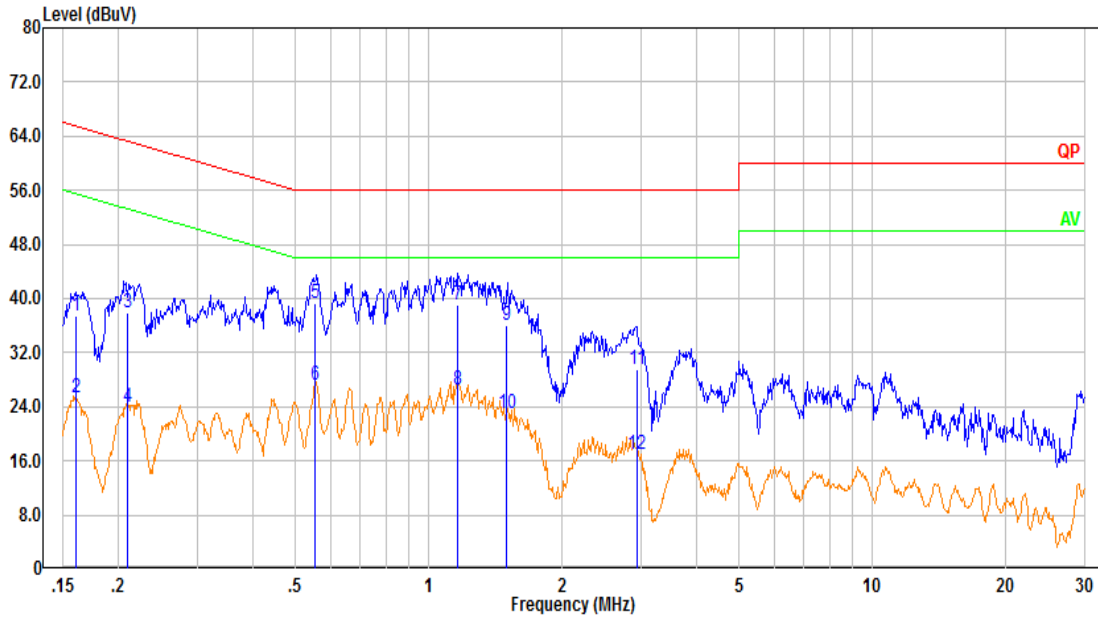


No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB)	Result (dB $\mu$ V)	Limit (dB $\mu$ V)	Margin (dB)	Detector
1	0.165	33.48	9.61	43.09	65.23	22.14	QP
2	0.165	17.02	9.61	26.63	55.23	28.60	Average
3	0.518	36.06	9.61	45.67	56.00	10.33	QP
4	0.518	21.75	9.61	31.37	46.00	14.63	Average
5	0.589	35.62	9.62	45.24	56.00	10.76	QP
6	0.589	18.58	9.62	28.20	46.00	17.80	Average
7	1.239	29.15	9.62	38.77	56.00	17.23	QP
8	1.239	14.29	9.62	23.91	46.00	22.09	Average
9	2.421	27.33	9.64	36.97	56.00	19.03	QP
10	2.421	11.83	9.64	21.47	46.00	24.53	Average
11	11.888	21.45	9.67	31.12	60.00	28.88	QP
12	11.888	10.74	9.67	20.41	50.00	29.59	Average



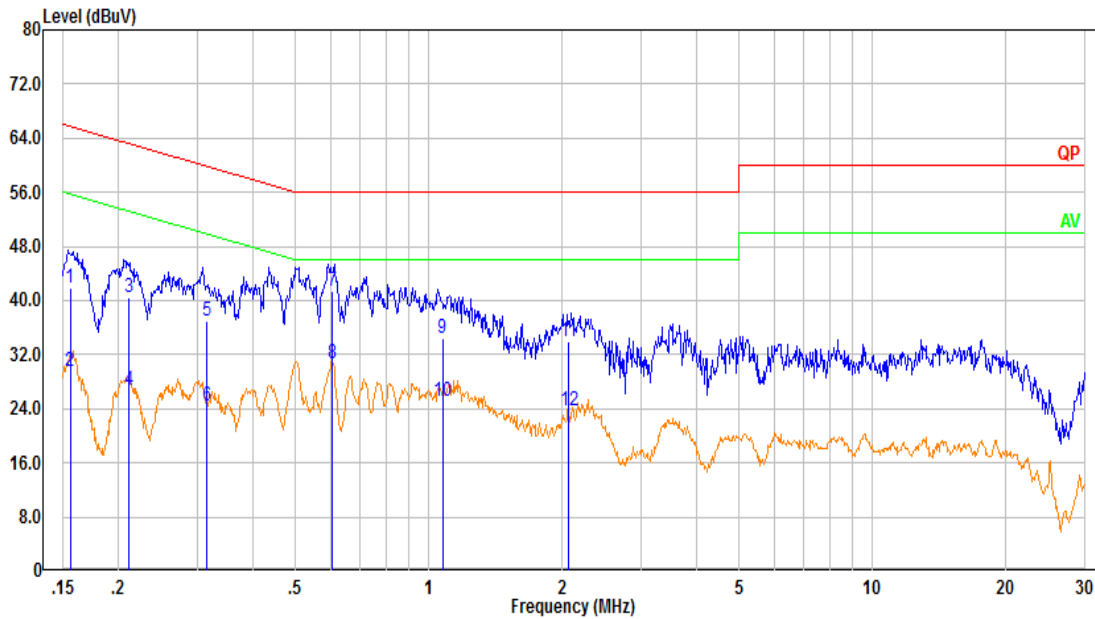
M2

Line:



No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB)	Result (dB $\mu$ V)	Limit (dB $\mu$ V)	Margin (dB)	Detector
1	0.160	27.94	9.61	37.55	65.48	27.93	QP
2	0.160	15.78	9.61	25.39	55.48	30.09	Average
3	0.209	28.31	9.61	37.92	63.26	25.34	QP
4	0.209	14.39	9.61	24.00	53.26	29.26	Average
5	0.553	29.76	9.62	39.37	56.00	16.63	QP
6	0.553	17.58	9.62	27.20	46.00	18.80	Average
7	1.165	29.51	9.62	39.13	56.00	16.87	QP
8	1.165	16.86	9.62	26.48	46.00	19.52	Average
9	1.492	26.39	9.62	36.02	56.00	19.98	QP
10	1.492	13.34	9.62	22.97	46.00	23.03	Average
11	2.939	19.87	9.65	29.52	56.00	26.48	QP
12	2.939	7.22	9.65	16.86	46.00	29.14	Average

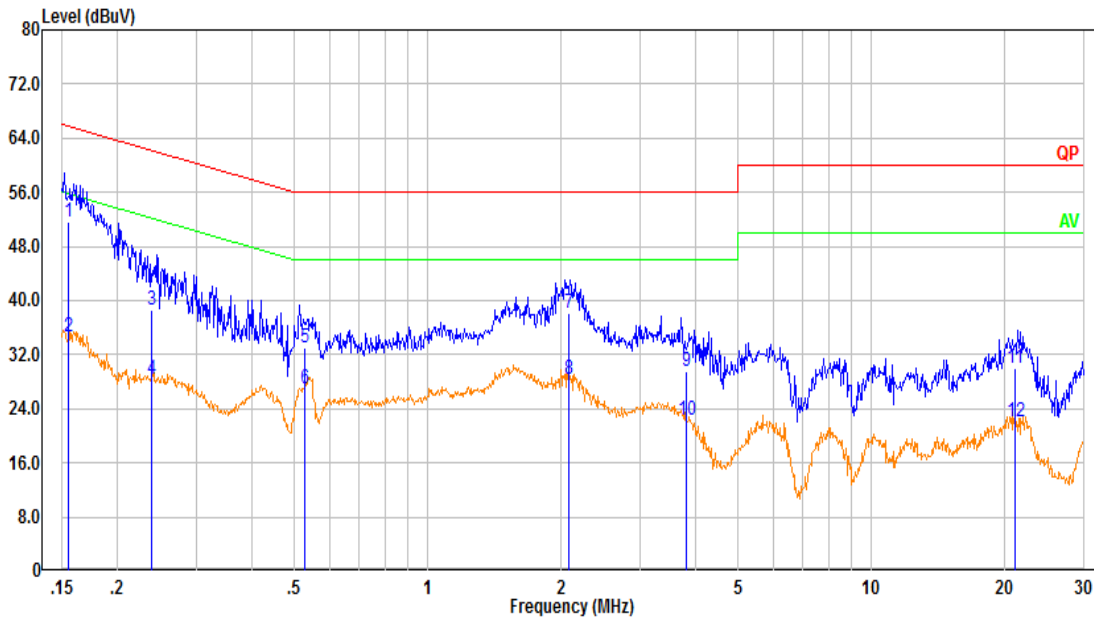
Neutral:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.155	32.27	9.61	41.88	65.71	23.83	QP
2	0.155	19.91	9.61	29.52	55.71	26.19	Average
3	0.210	30.82	9.61	40.43	63.20	22.77	QP
4	0.210	17.13	9.61	26.74	53.20	26.46	Average
5	0.315	27.26	9.61	36.87	59.85	22.98	QP
6	0.315	14.70	9.61	24.31	49.85	25.54	Average
7	0.605	31.68	9.62	41.30	56.00	14.70	QP
8	0.605	21.03	9.62	30.65	46.00	15.35	Average
9	1.073	24.80	9.62	34.42	56.00	21.58	QP
10	1.073	15.47	9.62	25.09	46.00	20.91	Average
11	2.064	24.31	9.63	33.94	56.00	22.06	QP
12	2.064	14.06	9.63	23.69	46.00	22.31	Average

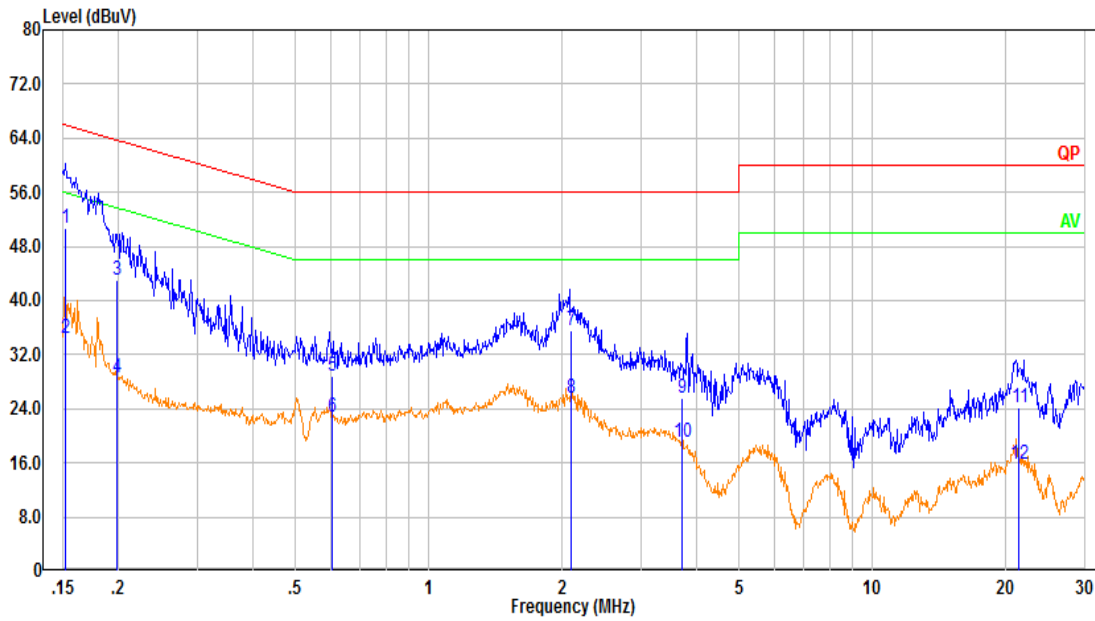
**M3**

Line:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.155	41.92	9.61	51.53	65.75	14.22	QP
2	0.155	25.04	9.61	34.65	55.75	21.10	Average
3	0.239	28.96	9.61	38.57	62.15	23.58	QP
4	0.239	18.78	9.61	28.39	52.15	23.76	Average
5	0.527	23.47	9.61	33.08	56.00	22.92	QP
6	0.527	17.36	9.61	26.97	46.00	19.03	Average
7	2.079	28.42	9.63	38.05	56.00	17.95	QP
8	2.079	18.75	9.63	28.38	46.00	17.62	Average
9	3.814	19.84	9.65	29.49	56.00	26.51	QP
10	3.814	12.59	9.65	22.24	46.00	23.76	Average
11	21.081	20.14	9.80	29.94	60.00	30.06	QP
12	21.081	12.18	9.80	21.98	50.00	28.02	Average

Neutral:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.152	41.13	9.61	50.74	65.90	15.16	QP
2	0.152	24.72	9.61	34.33	55.90	21.57	Average
3	0.198	33.50	9.61	43.11	63.70	20.59	QP
4	0.198	18.94	9.61	28.55	53.70	25.15	Average
5	0.606	19.17	9.62	28.79	56.00	27.21	QP
6	0.606	13.28	9.62	22.90	46.00	23.10	Average
7	2.099	25.94	9.63	35.57	56.00	20.43	QP
8	2.099	16.01	9.63	25.64	46.00	20.36	Average
9	3.715	15.98	9.65	25.63	56.00	30.37	QP
10	3.715	9.42	9.65	19.07	46.00	26.93	Average
11	21.427	14.55	9.72	24.27	60.00	35.73	QP
12	21.427	6.14	9.72	15.86	50.00	34.14	Average

**4.2 Radiation Spurious Emissions**

Serial Number:	CR220050079-RF-S1(Type-1) CR220050079-RF-S2(Type-2) CR220050079-RF-S3(Type-3)	Test Date:	2022-08-01~2022-08-15
Test Site:	966-1, 966-2	Test Mode:	M1-M3
Tester:	Mack Huang, Gary Ling	Test Result:	Pass

**Environmental Conditions:**

Temperature: (°C)	23.8~30.7	Relative Humidity: (%)	58~65	ATM Pressure: (kPa)	99.9~100.1
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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
PASTERNAK	Horn Antenna	PE9852/2F-20	112002	2021-02-05	2024-02-04
PASTERNAK	Horn Antenna	PE9850/2F-20	072001	2021-02-05	2024-02-04
R&S	Spectrum Analyzer	FSV40	101591	2022-07-15	2023-07-14
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	2021-11-19	2022-11-18

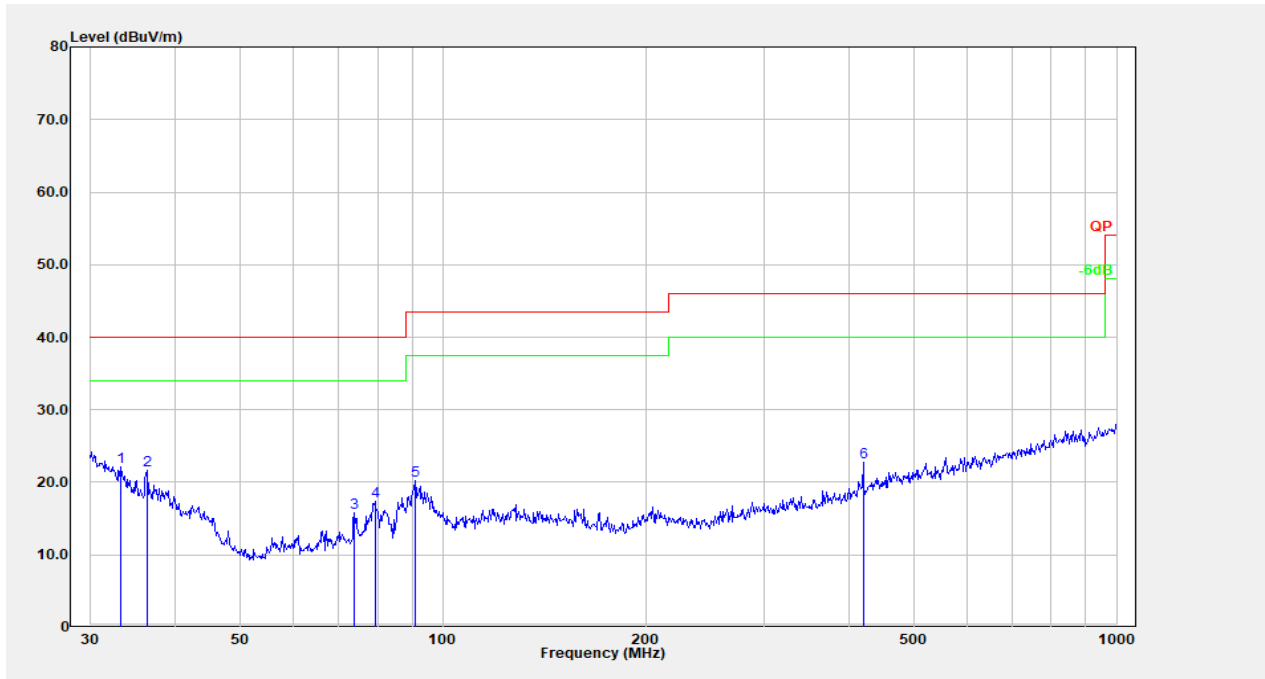
\* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

1) 30MHz-1GHz:

M1:

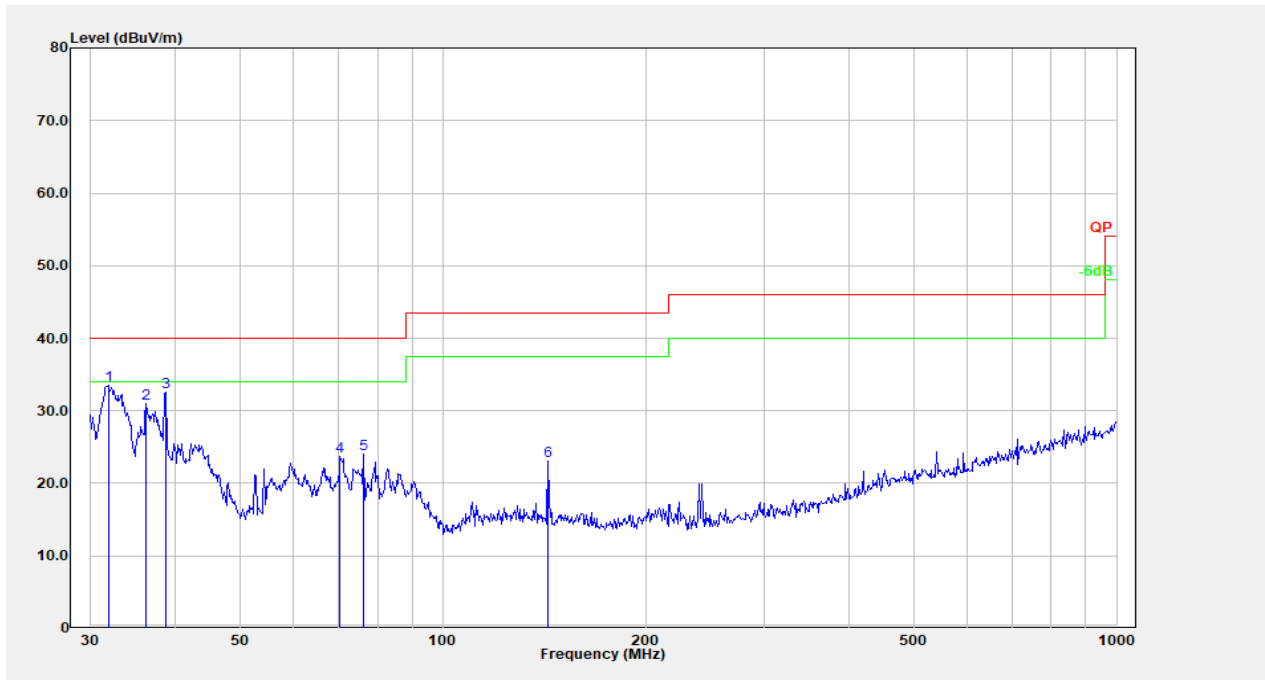
Type-1:

Horizontal:



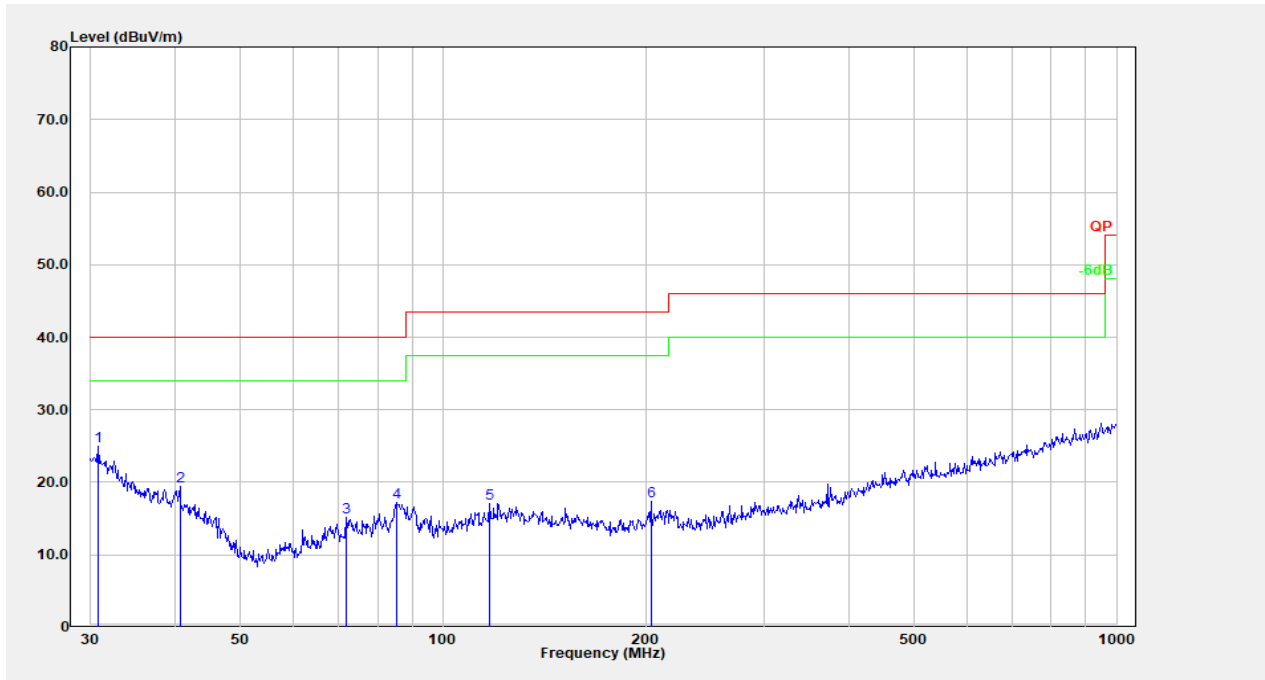
No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector
1	33.211	28.38	-6.28	22.10	40.00	17.90	Peak
2	36.381	30.35	-8.71	21.63	40.00	18.37	Peak
3	73.876	33.00	-17.13	15.87	40.00	24.13	Peak
4	79.243	35.08	-17.63	17.45	40.00	22.55	Peak
5	90.855	37.14	-16.97	20.17	43.50	23.33	Peak
6	420.580	30.94	-8.12	22.82	46.00	23.18	Peak

**Vertical:**



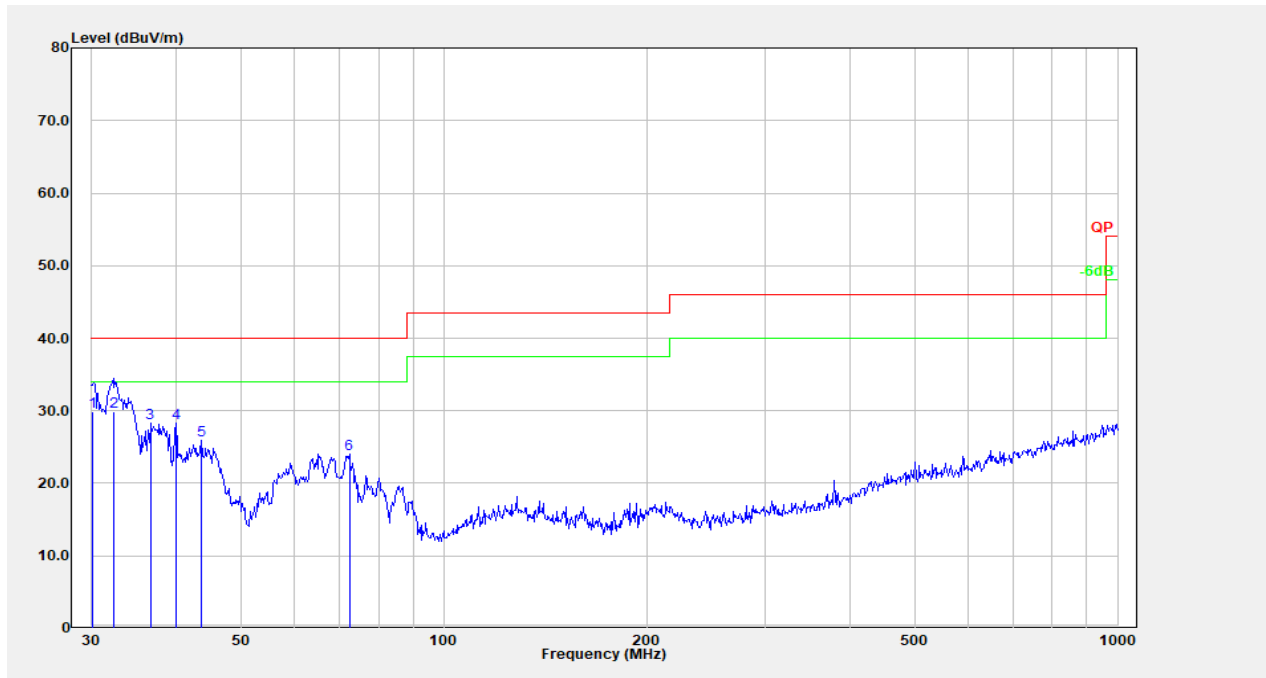
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	31.843	38.64	-5.20	33.44	40.00	6.56	Peak
2	36.254	39.62	-8.62	31.01	40.00	8.99	Peak
3	38.752	43.15	-10.52	32.63	40.00	7.37	Peak
4	70.337	40.43	-16.74	23.68	40.00	16.32	Peak
5	76.244	41.28	-17.30	23.98	40.00	16.02	Peak
6	143.326	35.26	-12.18	23.08	43.50	20.42	Peak

**Type-2:  
Horizontal:**



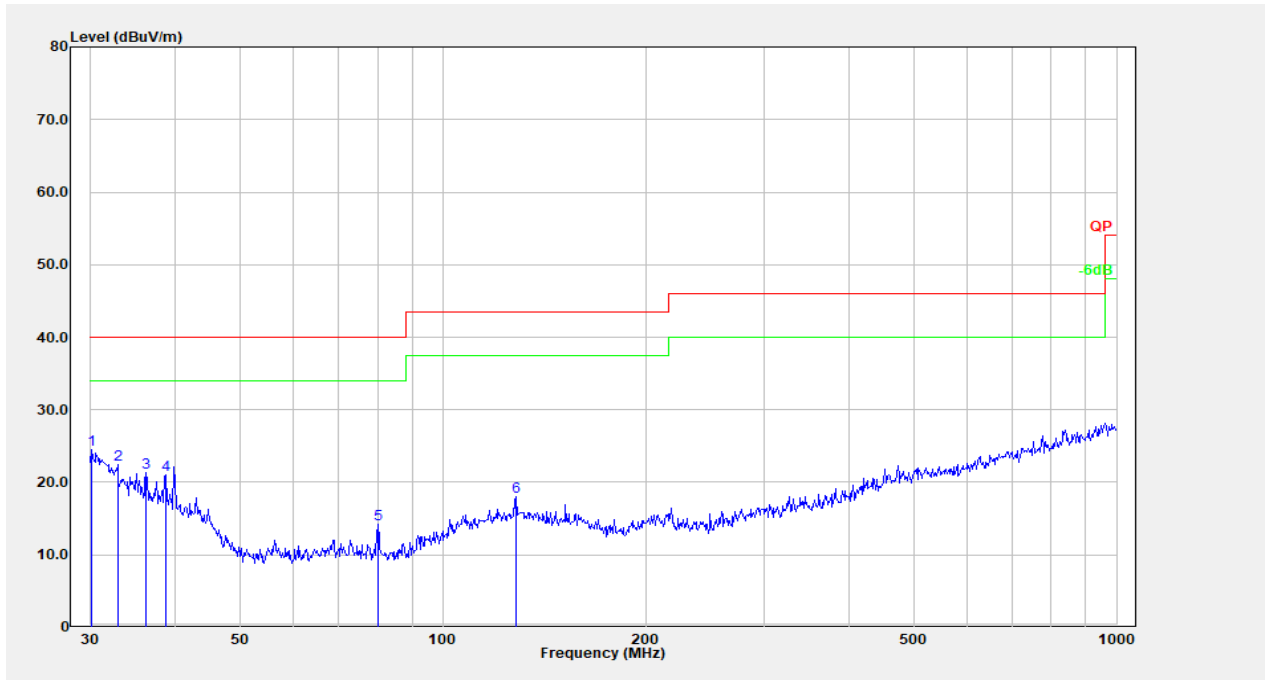
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.745	29.39	-4.36	25.02	40.00	14.98	Peak
2	40.702	31.44	-11.94	19.50	40.00	20.50	Peak
3	71.832	32.02	-16.91	15.11	40.00	24.89	Peak
4	85.298	34.64	-17.42	17.22	40.00	22.78	Peak
5	117.360	29.11	-11.96	17.15	43.50	26.35	Peak
6	203.523	29.87	-12.48	17.39	43.50	26.11	Peak



**Vertical:**

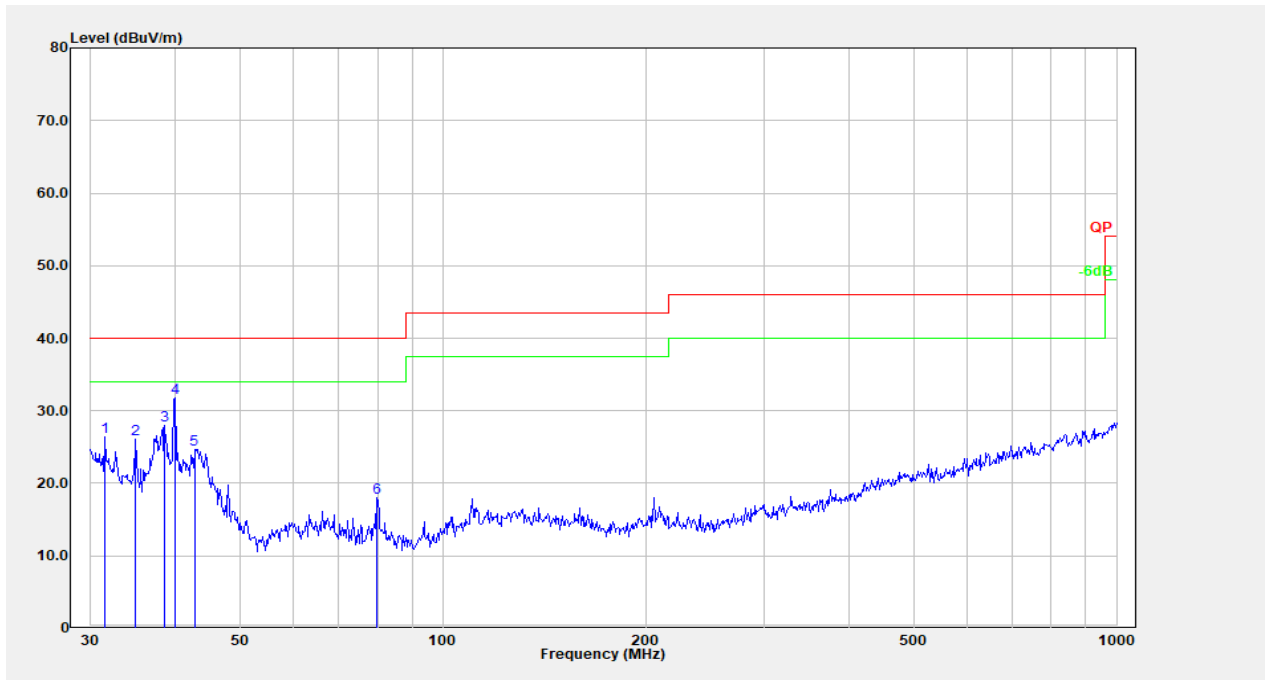
No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector
1	30.041	33.73	-3.82	29.91	40.00	10.09	QP
2	32.342	35.43	-5.59	29.83	40.00	10.17	QP
3	36.637	37.26	-8.91	28.35	40.00	11.65	Peak
4	39.994	39.82	-11.52	28.31	40.00	11.69	Peak
5	43.659	39.61	-13.70	25.91	40.00	14.09	Peak
6	72.338	41.05	-16.94	24.11	40.00	15.89	Peak

**Type-3:  
Horizontal:**

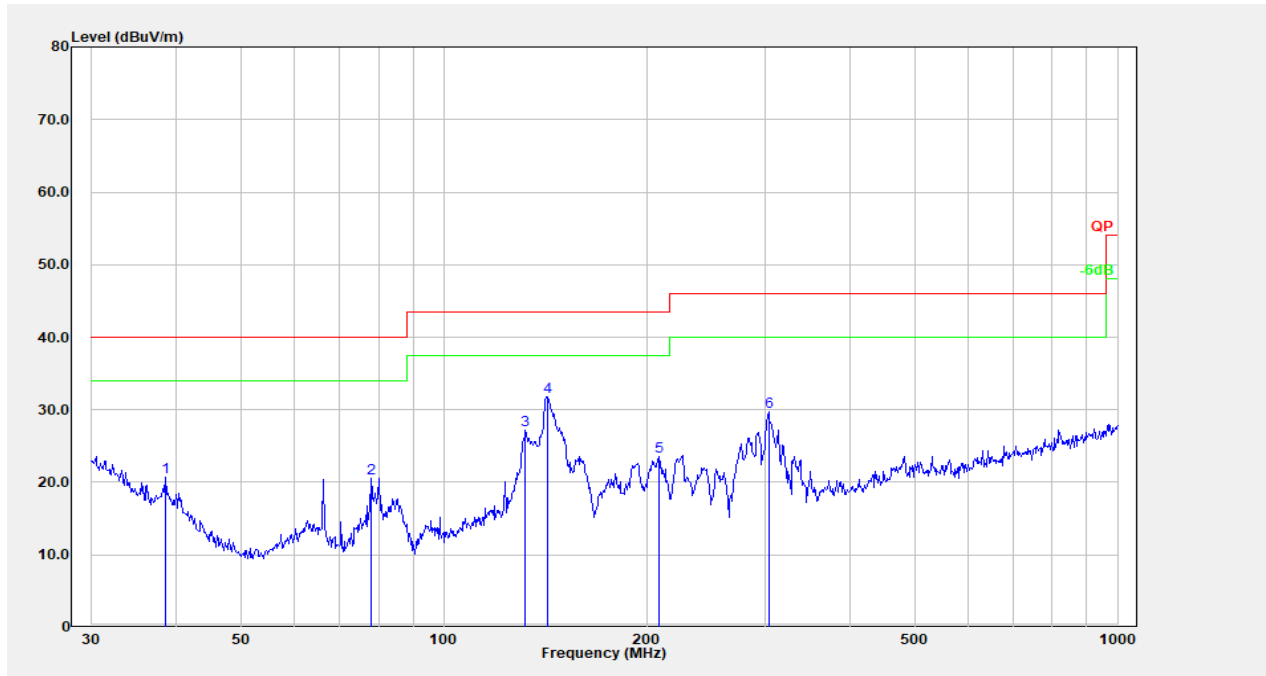


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.105	28.33	-3.87	24.46	40.00	15.54	Peak
2	32.864	28.48	-6.01	22.47	40.00	17.53	Peak
3	36.254	29.98	-8.62	21.36	40.00	18.64	Peak
4	38.752	31.55	-10.52	21.03	40.00	18.97	Peak
5	80.081	31.93	-17.70	14.23	40.00	25.77	Peak
6	128.563	29.58	-11.53	18.05	43.50	25.45	Peak

**Vertical:**

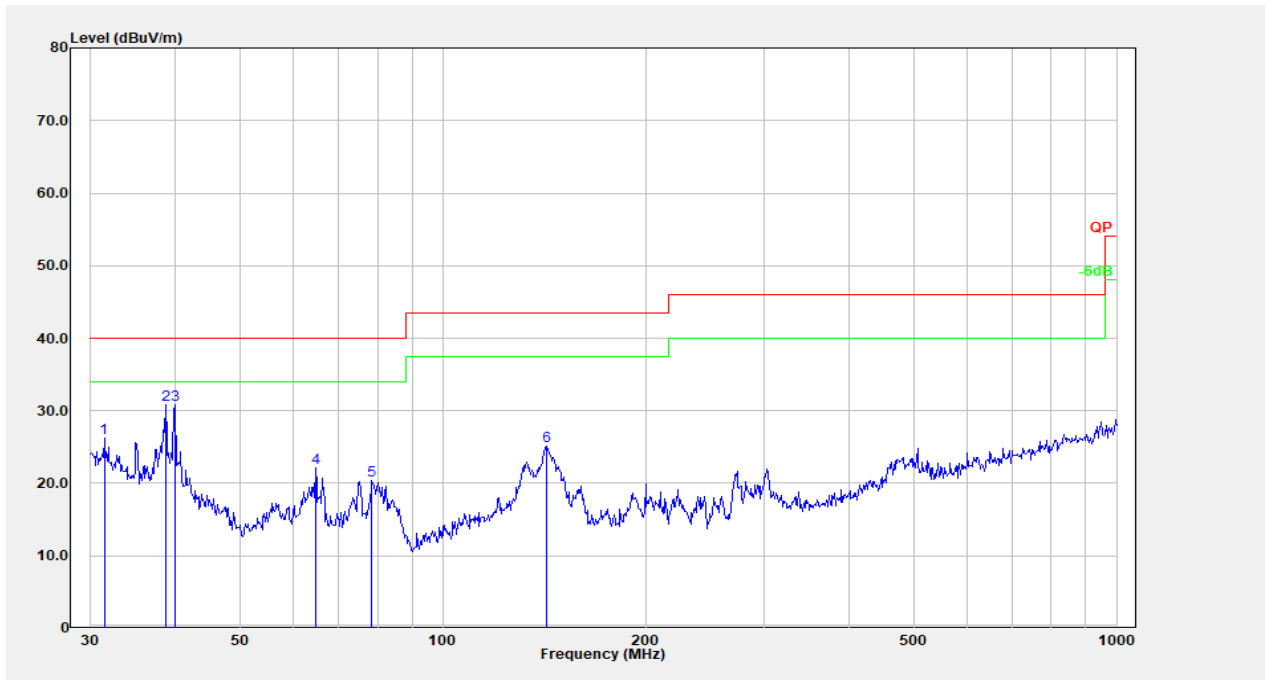


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	31.510	31.32	-4.95	26.38	40.00	13.62	Peak
2	35.005	33.75	-7.67	26.08	40.00	13.92	Peak
3	38.616	38.41	-10.41	28.00	40.00	12.00	Peak
4	39.994	43.29	-11.52	31.77	40.00	8.23	Peak
5	42.750	37.78	-13.14	24.64	40.00	15.36	Peak
6	79.800	35.71	-17.69	18.02	40.00	21.98	Peak

**M2****Type-1:****Horizontal:**

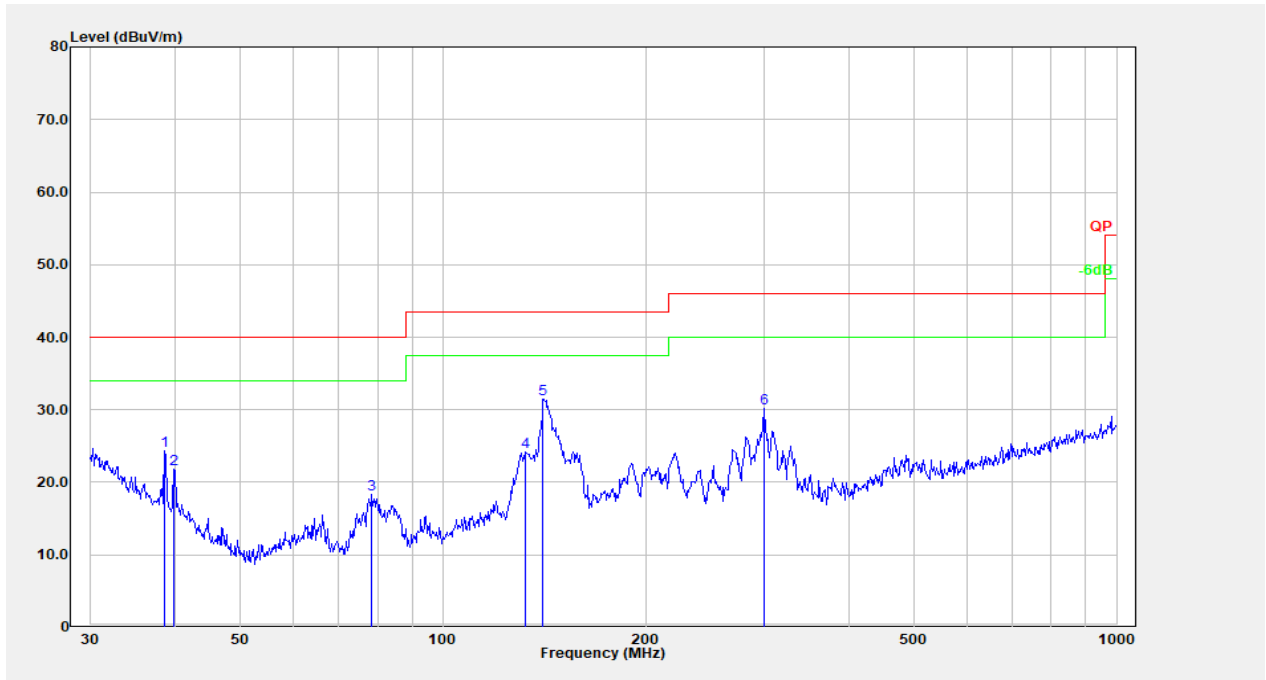
No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector
1	38.616	31.06	-10.41	20.65	40.00	19.35	Peak
2	77.865	38.12	-17.49	20.63	40.00	19.37	Peak
3	132.221	38.85	-11.68	27.17	43.50	16.33	Peak
4	142.324	43.99	-12.16	31.83	43.50	11.67	Peak
5	208.580	36.16	-12.58	23.58	43.50	19.92	Peak
6	303.544	40.56	-10.80	29.76	46.00	16.24	Peak

**Vertical:**



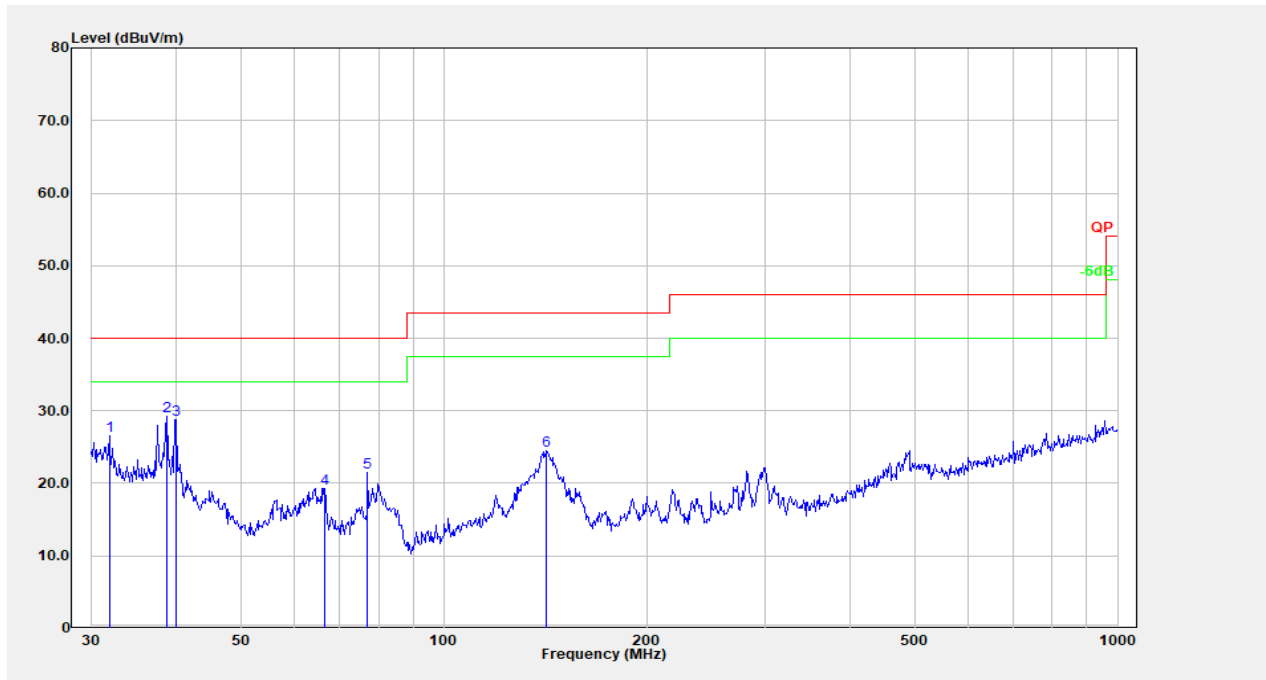
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	31.399	31.17	-4.86	26.30	40.00	13.70	Peak
2	38.752	41.41	-10.52	30.89	40.00	9.11	Peak
3	39.994	42.35	-11.52	30.84	40.00	9.16	Peak
4	64.659	39.27	-17.20	22.07	40.00	17.93	Peak
5	78.413	37.88	-17.55	20.33	40.00	19.67	Peak
6	142.324	37.22	-12.16	25.06	43.50	18.44	Peak

**Type-2  
Horizontal:**



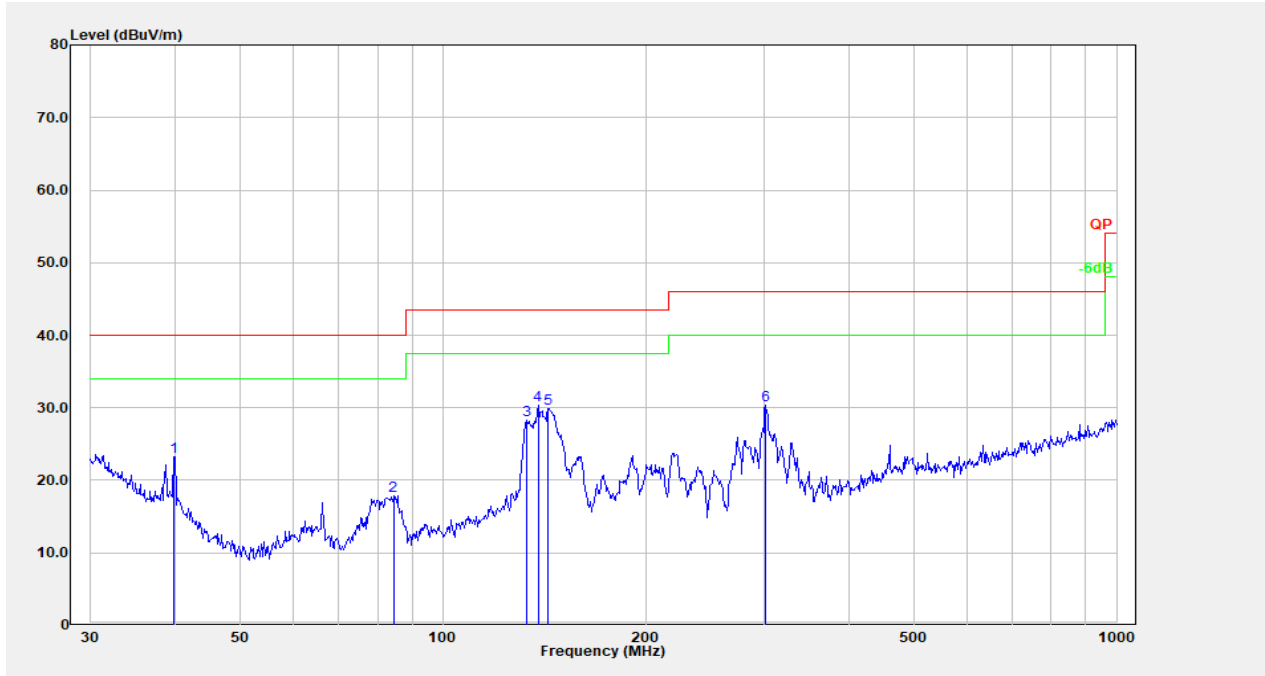
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	38.616	34.70	-10.41	24.30	40.00	15.70	Peak
2	39.854	33.26	-11.40	21.85	40.00	18.15	Peak
3	78.413	35.86	-17.55	18.31	40.00	21.69	Peak
4	132.685	35.97	-11.73	24.24	43.50	19.26	Peak
5	140.835	43.68	-12.18	31.50	43.50	12.00	Peak
6	299.316	40.99	-10.83	30.17	46.00	15.83	Peak

**Vertical:**



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	31.843	31.70	-5.20	26.50	40.00	13.50	Peak
2	38.752	39.79	-10.52	29.27	40.00	10.73	Peak
3	39.994	40.34	-11.52	28.82	40.00	11.18	Peak
4	66.499	36.35	-17.05	19.31	40.00	20.69	Peak
5	77.051	38.94	-17.39	21.55	40.00	18.45	Peak
6	141.826	36.71	-12.17	24.55	43.50	18.95	Peak

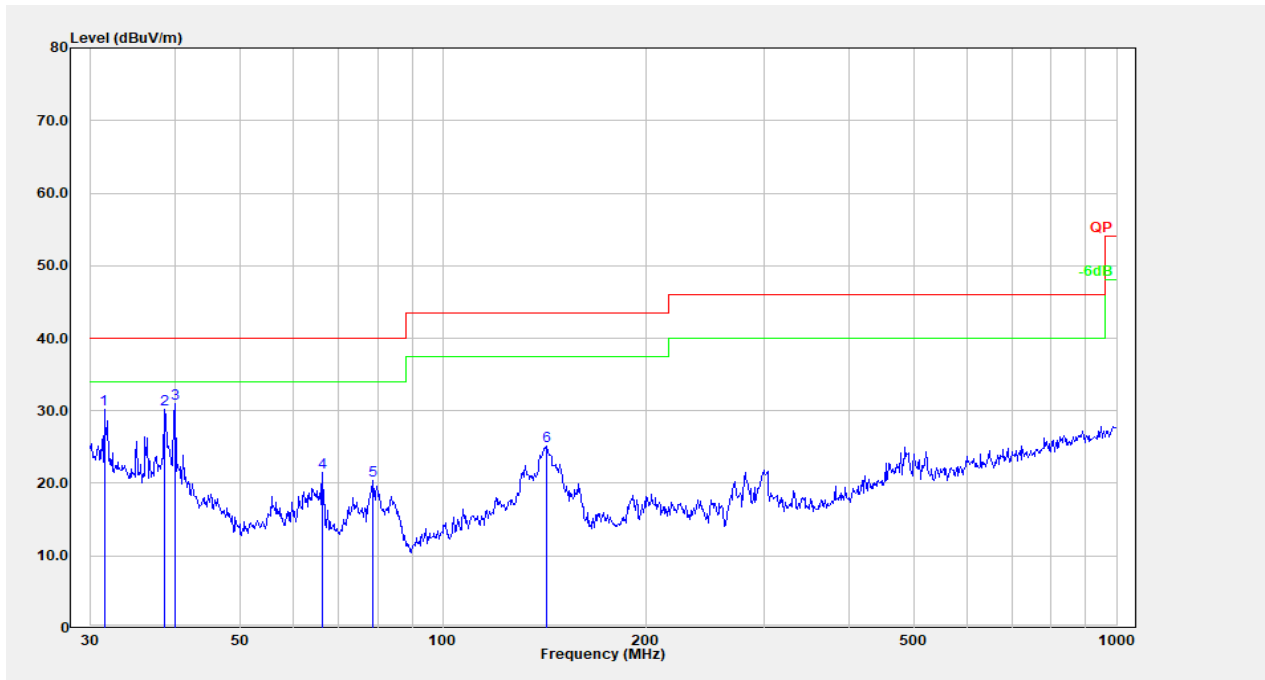
**Type-3:  
Horizontal:**



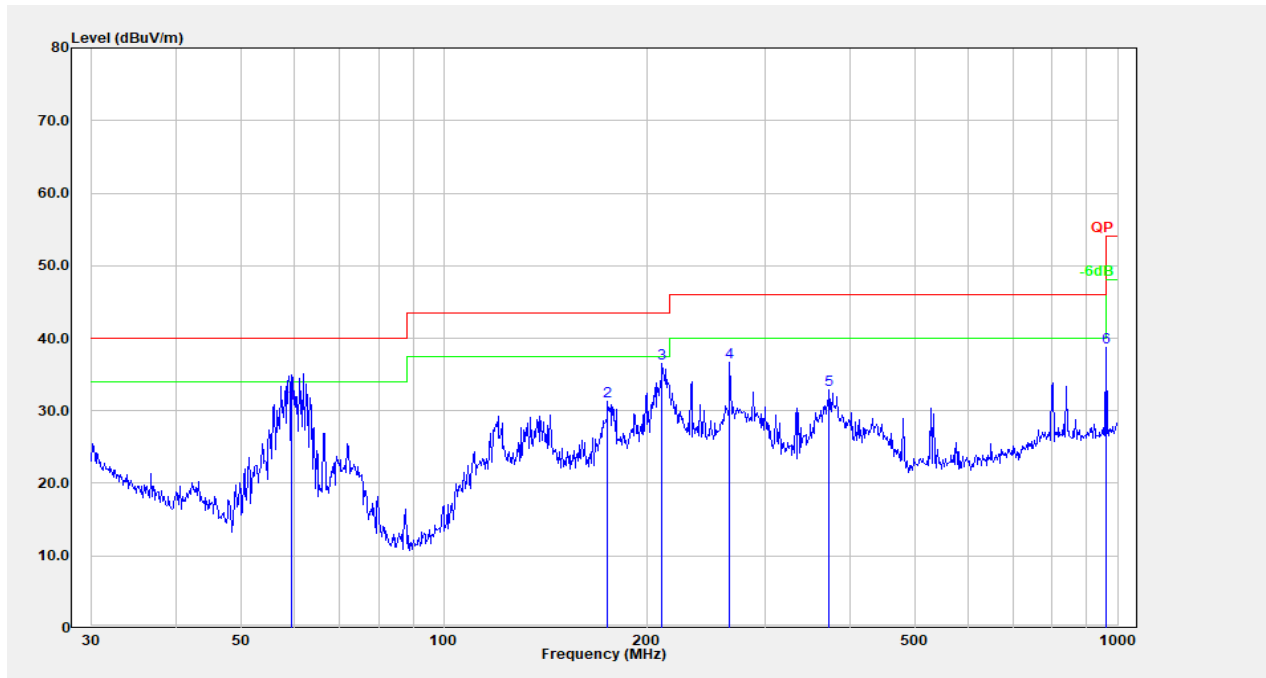
No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector
1	39.854	34.66	-11.40	23.26	40.00	16.74	Peak
2	84.405	35.39	-17.47	17.92	40.00	22.08	Peak
3	133.151	40.06	-11.77	28.29	43.50	15.21	Peak
4	138.387	42.37	-12.06	30.31	43.50	13.19	Peak
5	143.326	42.07	-12.18	29.89	43.50	13.61	Peak
6	301.422	41.12	-10.80	30.32	46.00	15.68	Peak



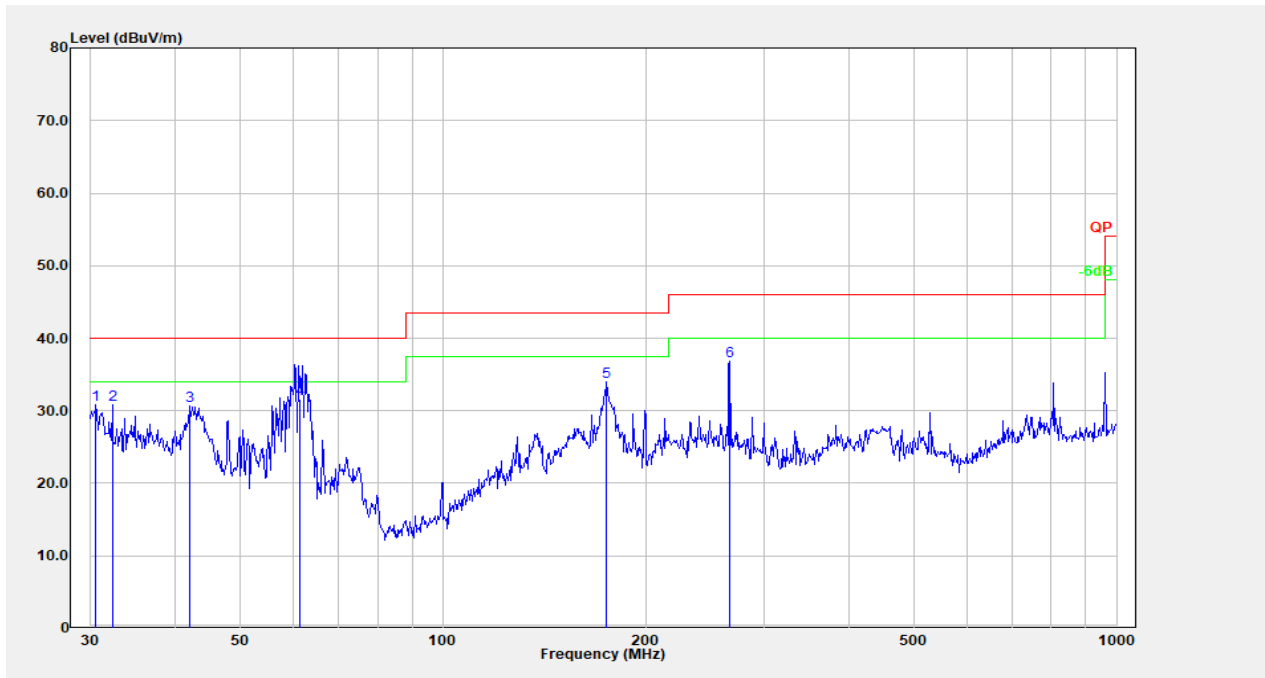
**Vertical:**



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	31.399	35.02	-4.86	30.15	40.00	9.85	Peak
2	38.616	40.55	-10.41	30.14	40.00	9.86	Peak
3	39.994	42.54	-11.52	31.02	40.00	8.98	Peak
4	66.266	38.61	-17.07	21.54	40.00	18.46	Peak
5	78.689	38.03	-17.57	20.45	40.00	19.55	Peak
6	142.324	37.35	-12.16	25.19	43.50	18.31	Peak

**M3 (Type-1 was the wors)****Horizontal:**

No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector
1	59.441	48.57	-17.63	30.94	40.00	9.06	QP
2	175.037	44.84	-13.54	31.30	43.50	12.20	Peak
3	210.786	49.09	-12.63	36.46	43.50	7.04	Peak
4	265.676	49.10	-12.44	36.66	46.00	9.34	Peak
5	373.311	42.44	-9.60	32.84	46.00	13.16	Peak
6	962.162	38.77	-0.09	38.68	54.00	15.32	Peak

**Vertical:**

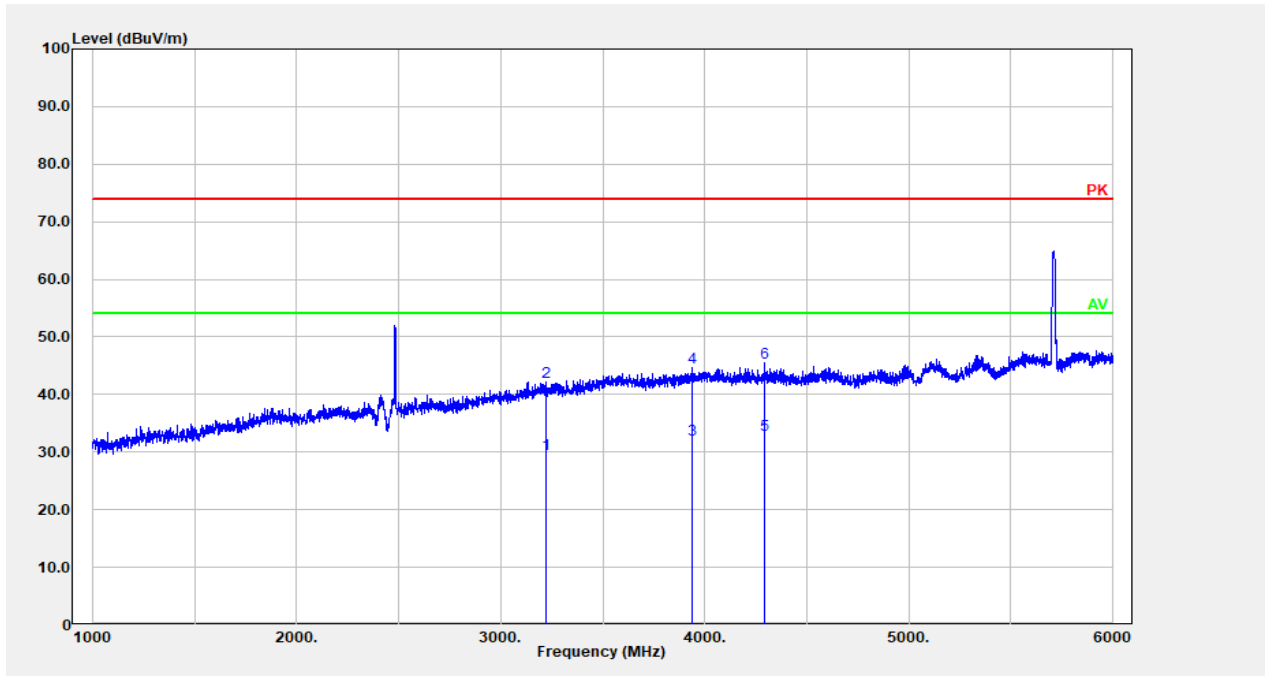
No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector
1	30.531	35.04	-4.20	30.84	40.00	9.16	Peak
2	32.293	36.35	-5.55	30.80	40.00	9.20	Peak
3	42.007	43.29	-12.67	30.62	40.00	9.38	Peak
4	61.181	49.15	-17.56	31.59	40.00	8.41	QP
5	175.037	47.45	-13.54	33.91	43.50	9.59	Peak
6	266.609	49.32	-12.41	36.91	46.00	9.09	Peak

2) Above 1GHz

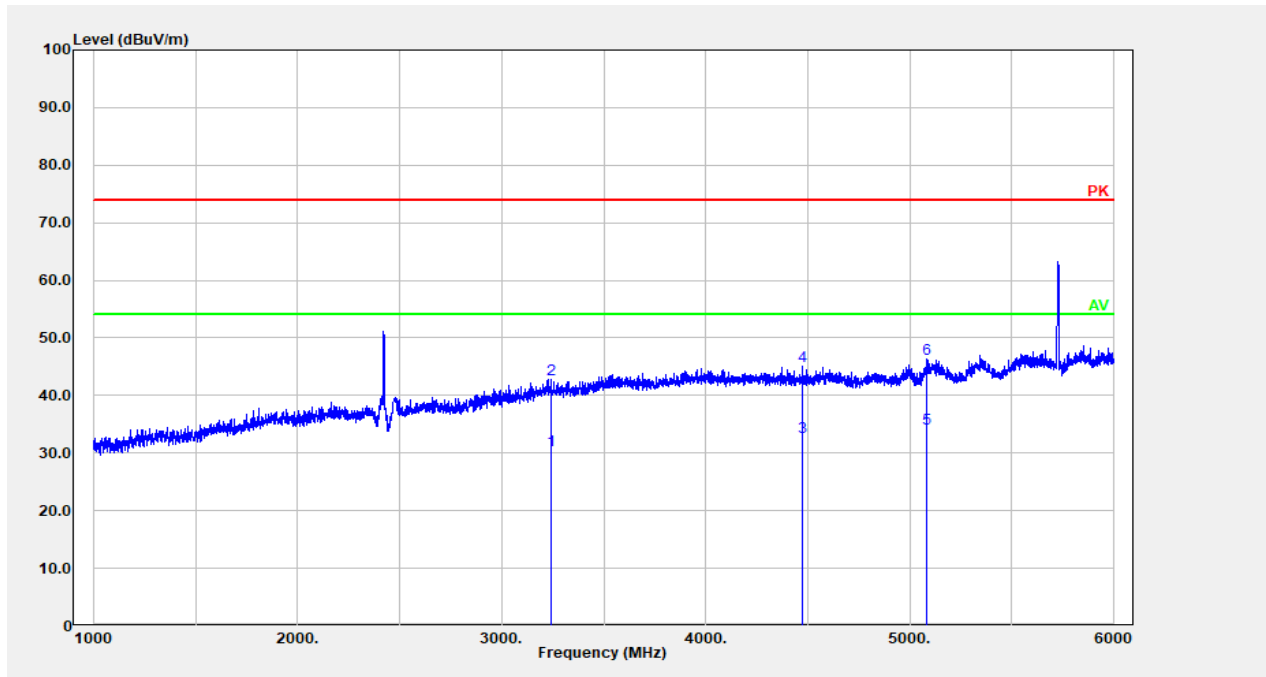
**Type-1 was the worst:**

**M1**

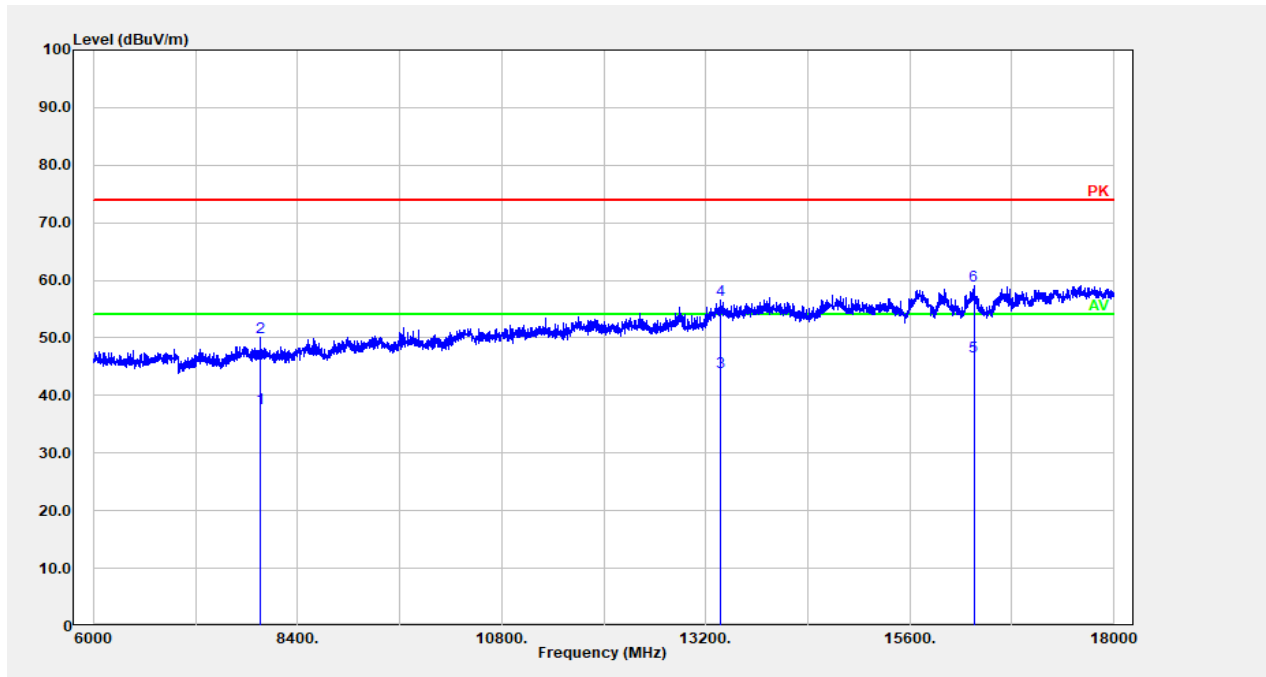
**Horizontal:**



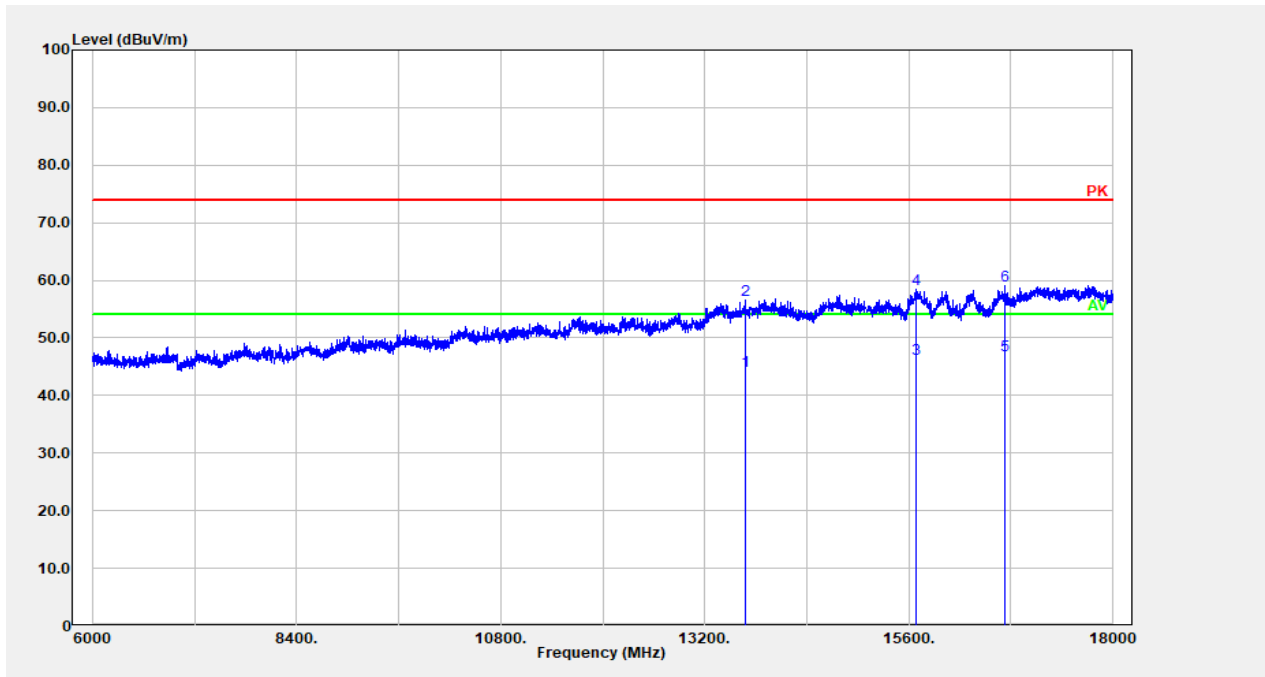
No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector
1	3222.445	22.45	7.28	29.73	54.00	24.27	Average
2	3222.445	34.90	7.28	42.18	74.00	31.82	Peak
3	3936.587	22.42	9.79	32.21	54.00	21.79	Average
4	3936.587	34.84	9.79	44.63	74.00	29.37	Peak
5	4293.659	23.41	9.63	33.04	54.00	20.96	Average
6	4293.659	35.83	9.63	45.46	74.00	28.54	Peak

**Vertical:**

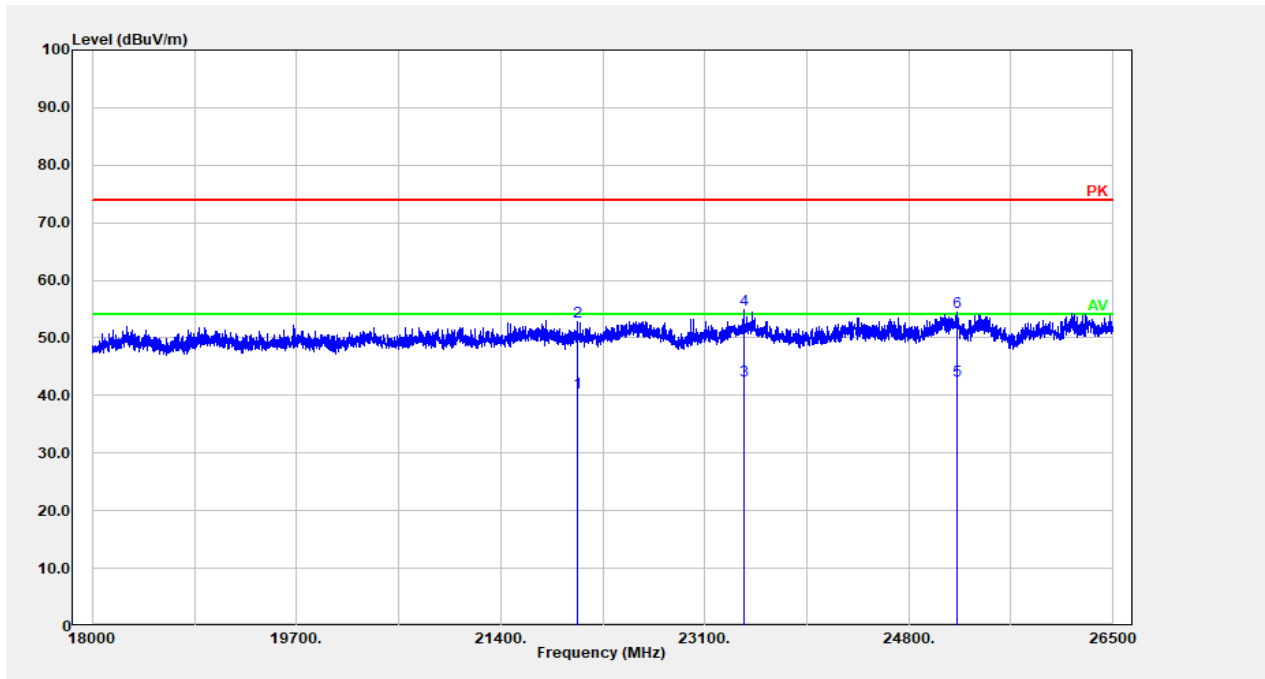
No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector
1	3242.448	23.14	7.37	30.51	54.00	23.49	Average
2	3242.448	35.39	7.37	42.76	74.00	31.24	Peak
3	4474.695	23.14	9.66	32.80	54.00	21.20	Average
4	4474.695	35.37	9.66	45.03	74.00	28.97	Peak
5	5085.817	23.06	11.27	34.33	54.00	19.67	Average
6	5085.817	35.13	11.27	46.40	74.00	27.60	Peak

**Horizontal:**

No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector
1	7961.192	22.31	15.51	37.82	54.00	16.18	Average
2	7961.192	34.63	15.51	50.14	74.00	23.86	Peak
3	13376.680	21.43	22.68	44.11	54.00	9.89	Average
4	13376.680	33.88	22.68	56.56	74.00	17.44	Peak
5	16353.270	25.24	21.52	46.76	54.00	7.24	Average
6	16353.270	37.49	21.52	59.01	74.00	14.99	Peak

**Vertical:**

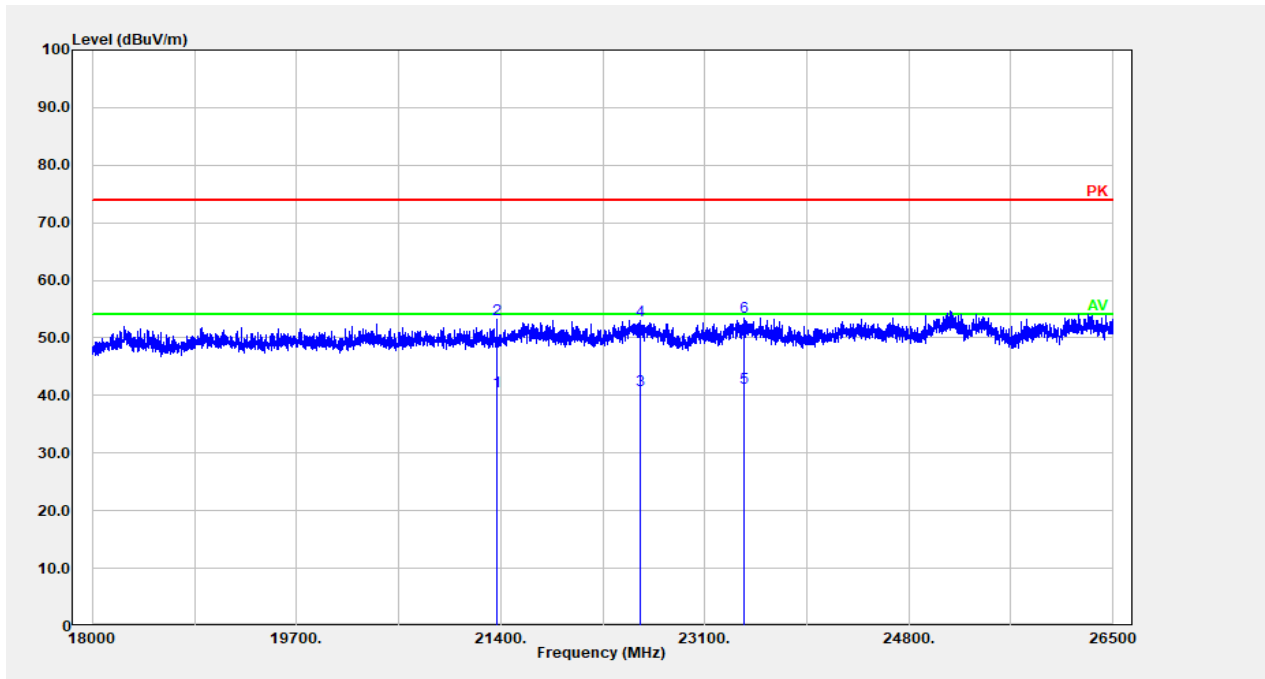
No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector
1	13679.140	21.34	23.00	44.34	54.00	9.66	Average
2	13679.140	33.67	23.00	56.67	74.00	17.33	Peak
3	15688.340	25.15	21.21	46.36	54.00	7.64	Average
4	15688.340	37.33	21.21	58.54	74.00	15.46	Peak
5	16737.350	24.13	22.82	46.95	54.00	7.05	Average
6	16737.350	36.25	22.82	59.07	74.00	14.93	Peak

**Horizontal:**

No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector
1	22040.010	31.43	9.00	40.43	54.00	13.57	Average
2	22040.010	43.85	9.00	52.85	74.00	21.15	Peak
3	23422.380	31.32	11.17	42.49	54.00	11.51	Average
4	23422.380	43.74	11.17	54.91	74.00	19.09	Peak
5	25207.740	29.07	13.52	42.59	54.00	11.41	Average
6	25207.740	41.00	13.52	54.52	74.00	19.48	Peak

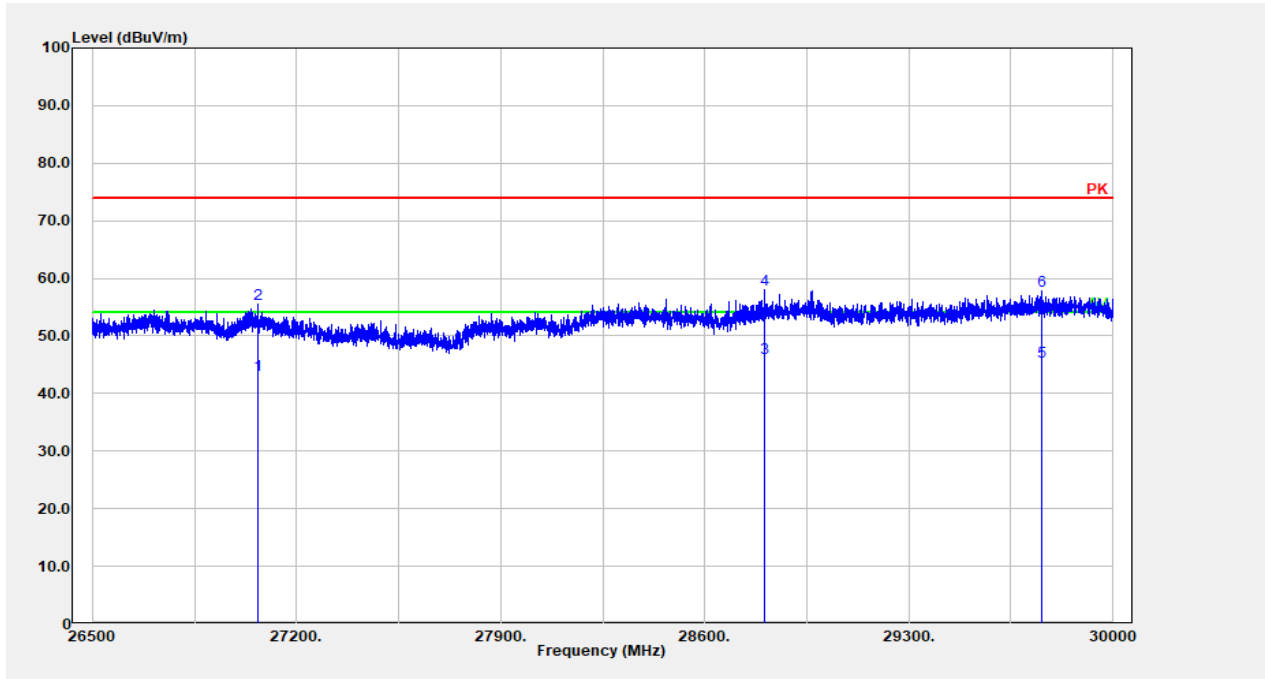


**Vertical:**

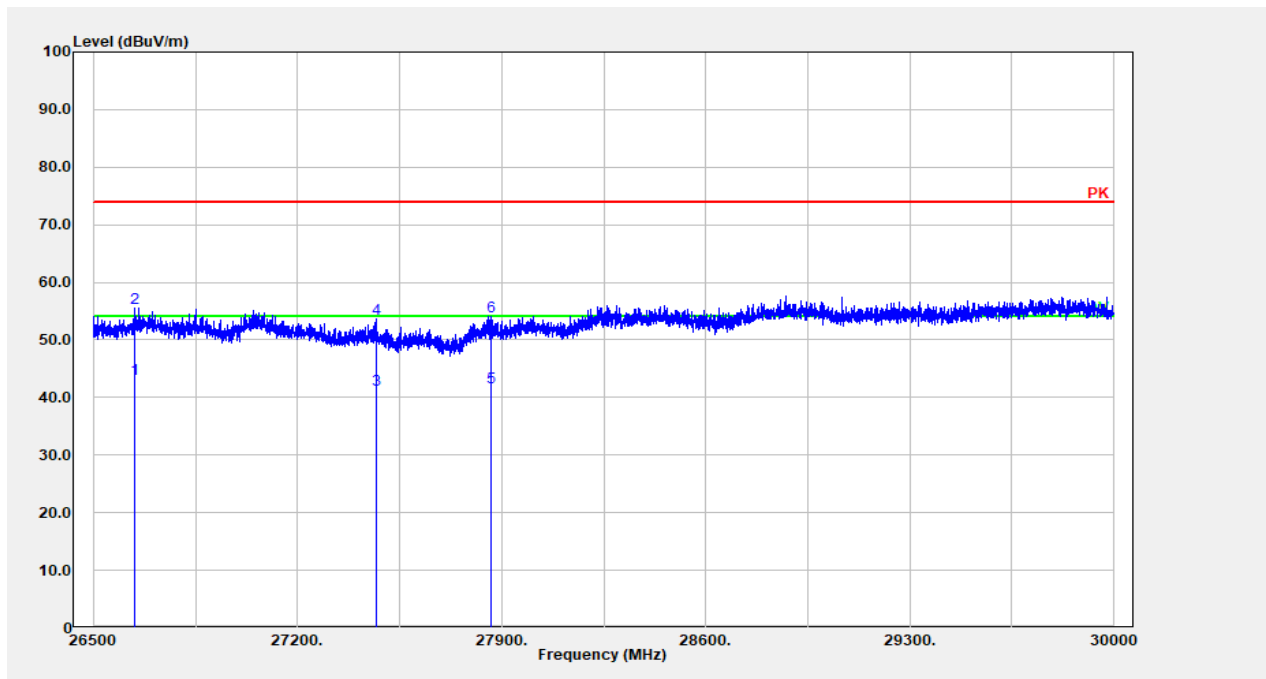


No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector
1	21364.970	32.41	8.39	40.80	54.00	13.20	Average
2	21364.970	44.77	8.39	53.16	74.00	20.84	Peak
3	22567.110	30.21	10.75	40.96	54.00	13.04	Average
4	22567.110	42.36	10.75	53.11	74.00	20.89	Peak
5	23427.490	30.15	11.18	41.33	54.00	12.67	Average
6	23427.490	42.37	11.18	53.55	74.00	20.45	Peak

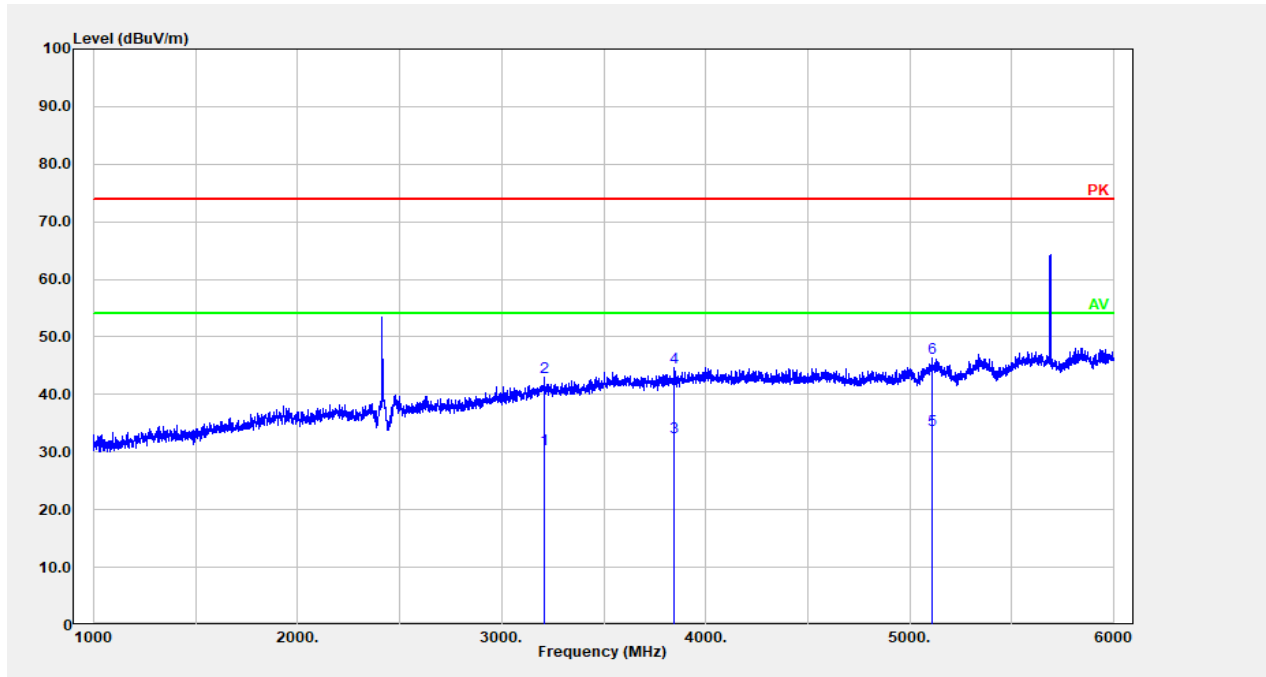
**Horizontal:**



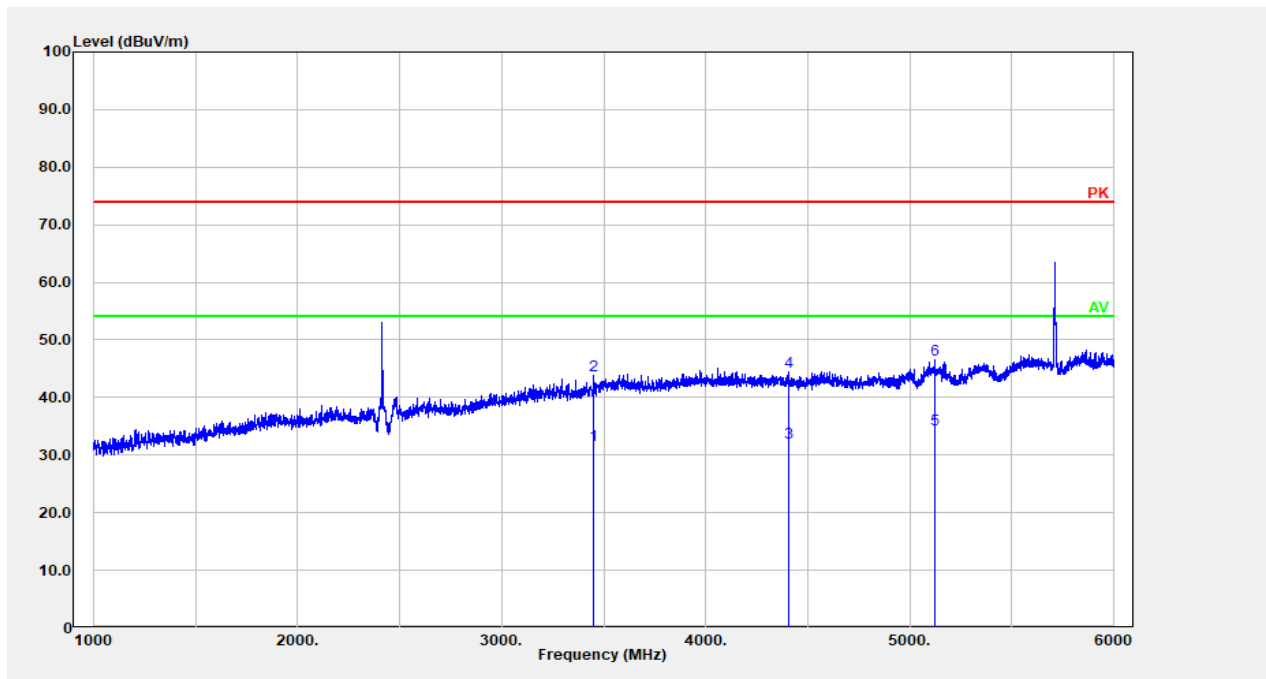
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	27065.710	29.14	14.11	43.25	54.00	10.75	Average
2	27065.710	41.36	14.11	55.47	74.00	18.53	Peak
3	28804.160	31.04	15.00	46.04	54.00	7.96	Average
4	28804.160	43.09	15.00	58.09	74.00	15.91	Peak
5	29757.050	30.43	15.08	45.51	54.00	8.49	Average
6	29757.050	42.77	15.08	57.85	74.00	16.15	Peak

**Vertical:**

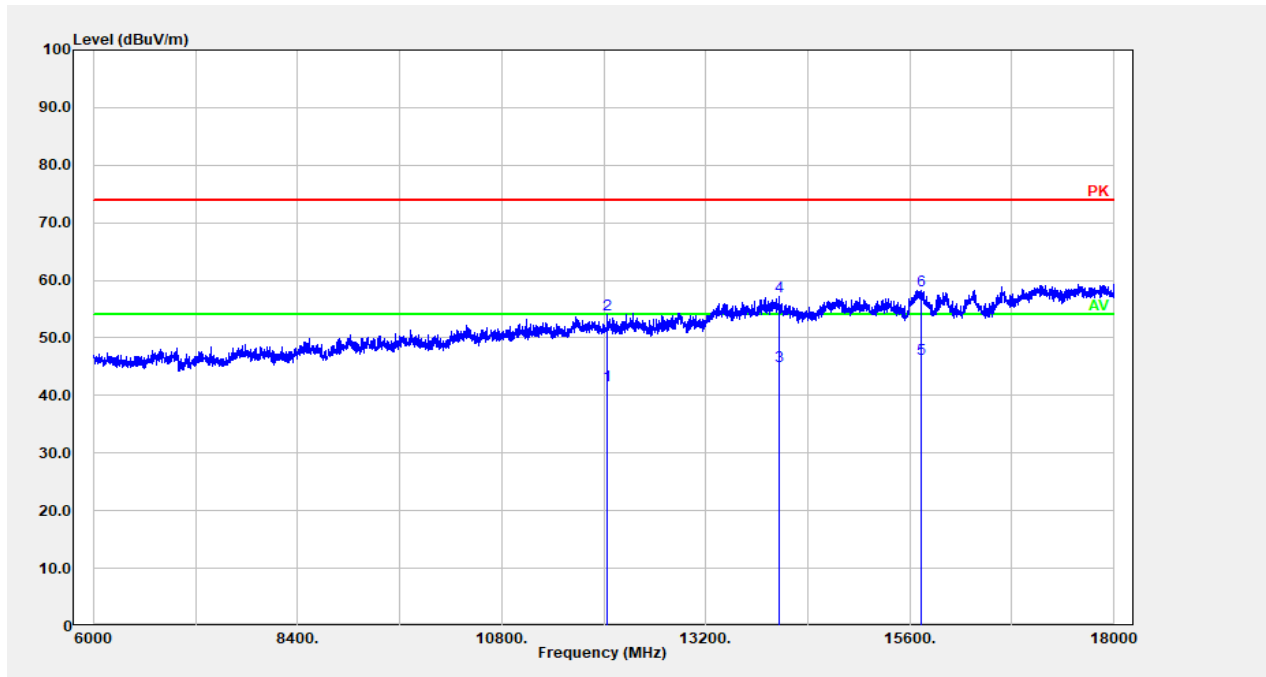
No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector
1	26642.130	30.15	13.15	43.30	54.00	10.70	Average
2	26642.130	42.31	13.15	55.46	74.00	18.54	Peak
3	27469.690	27.34	13.91	41.25	54.00	12.75	Average
4	27469.690	39.68	13.91	53.59	74.00	20.41	Peak
5	27864.570	27.41	14.33	41.74	54.00	12.26	Average
6	27864.570	39.74	14.33	54.07	74.00	19.93	Peak

**M2****Horizontal:**

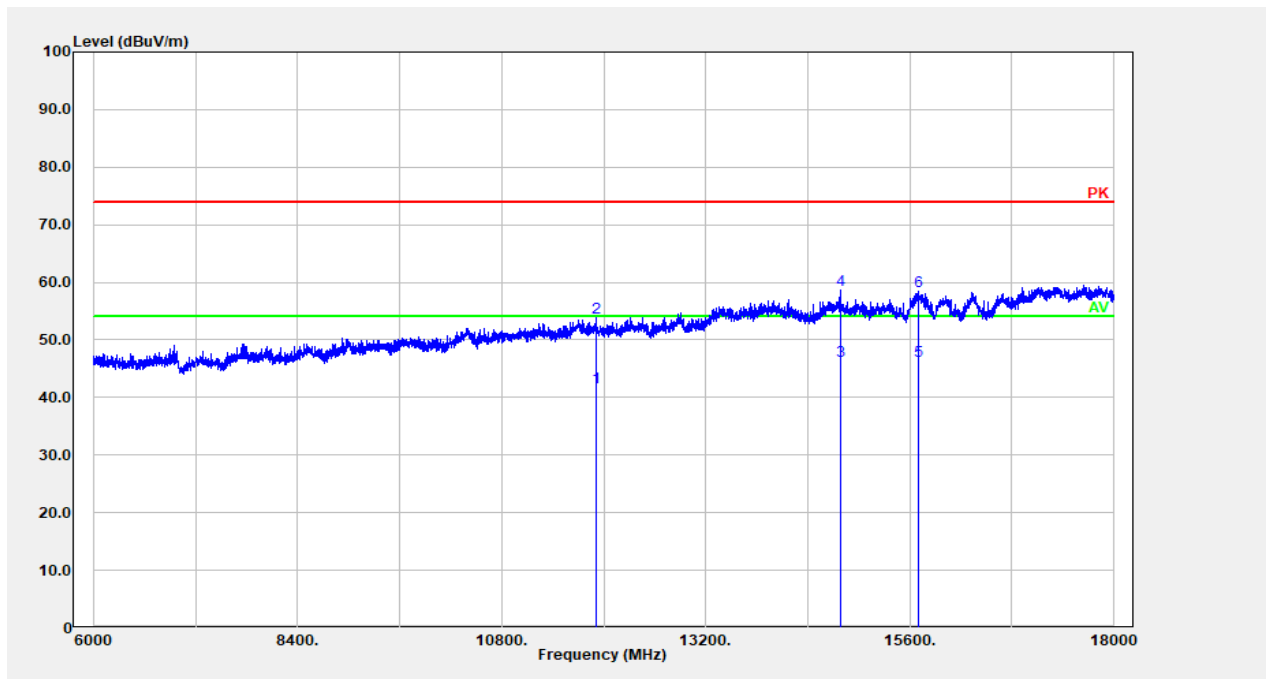
No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector
1	3207.441	23.35	7.21	30.56	54.00	23.44	Average
2	3207.441	35.71	7.21	42.92	74.00	31.08	Peak
3	3842.569	23.09	9.45	32.54	54.00	21.46	Average
4	3842.569	35.19	9.45	44.64	74.00	29.36	Peak
5	5107.822	22.43	11.38	33.81	54.00	20.19	Average
6	5107.822	34.97	11.38	46.35	74.00	27.65	Peak

**Vertical:**

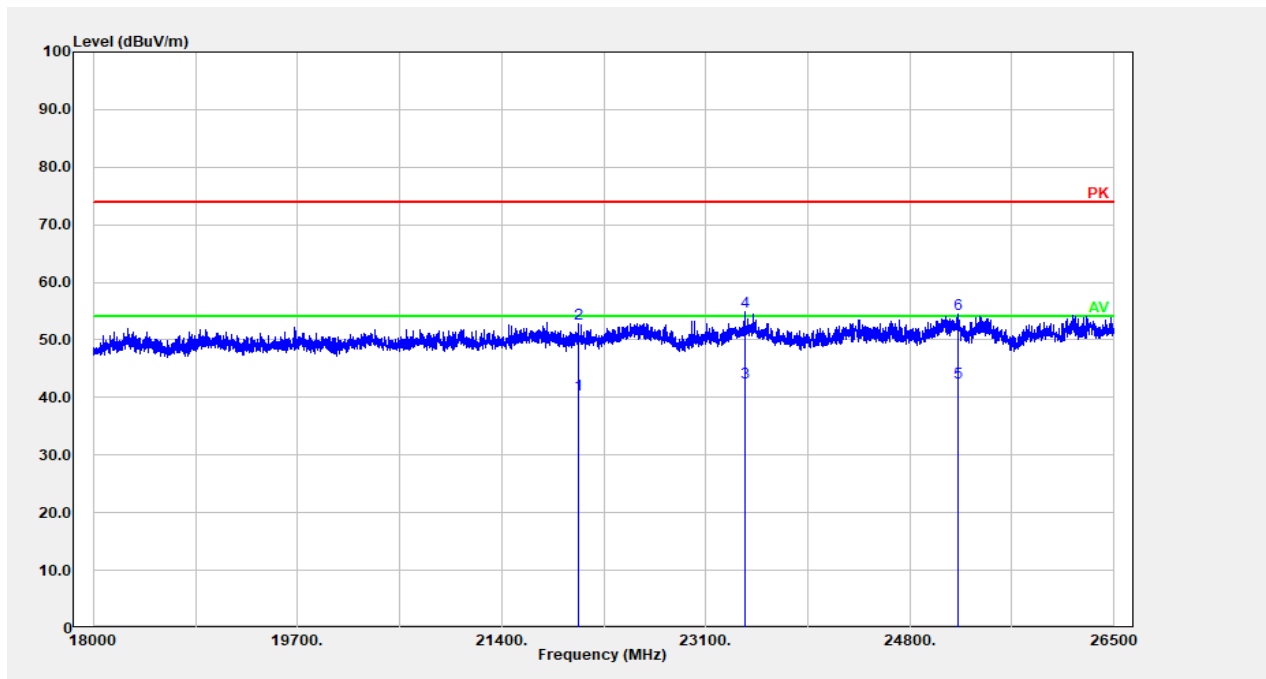
No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector
1	3447.490	23.22	8.44	31.66	54.00	22.34	Average
2	3447.490	35.45	8.44	43.89	74.00	30.11	Peak
3	4404.681	22.41	9.77	32.18	54.00	21.82	Average
4	4404.681	34.74	9.77	44.51	74.00	29.49	Peak
5	5123.825	23.04	11.43	34.47	54.00	19.53	Average
6	5123.825	35.09	11.43	46.52	74.00	27.48	Peak

**Horizontal:**

No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector
1	12037.210	21.44	20.28	41.72	54.00	12.28	Average
2	12037.210	33.88	20.28	54.16	74.00	19.84	Peak
3	14068.010	21.23	23.85	45.08	54.00	8.92	Average
4	14068.010	33.44	23.85	57.29	74.00	16.71	Peak
5	15741.150	25.03	21.25	46.28	54.00	7.72	Average
6	15741.150	37.06	21.25	58.31	74.00	15.69	Peak

**Vertical:**

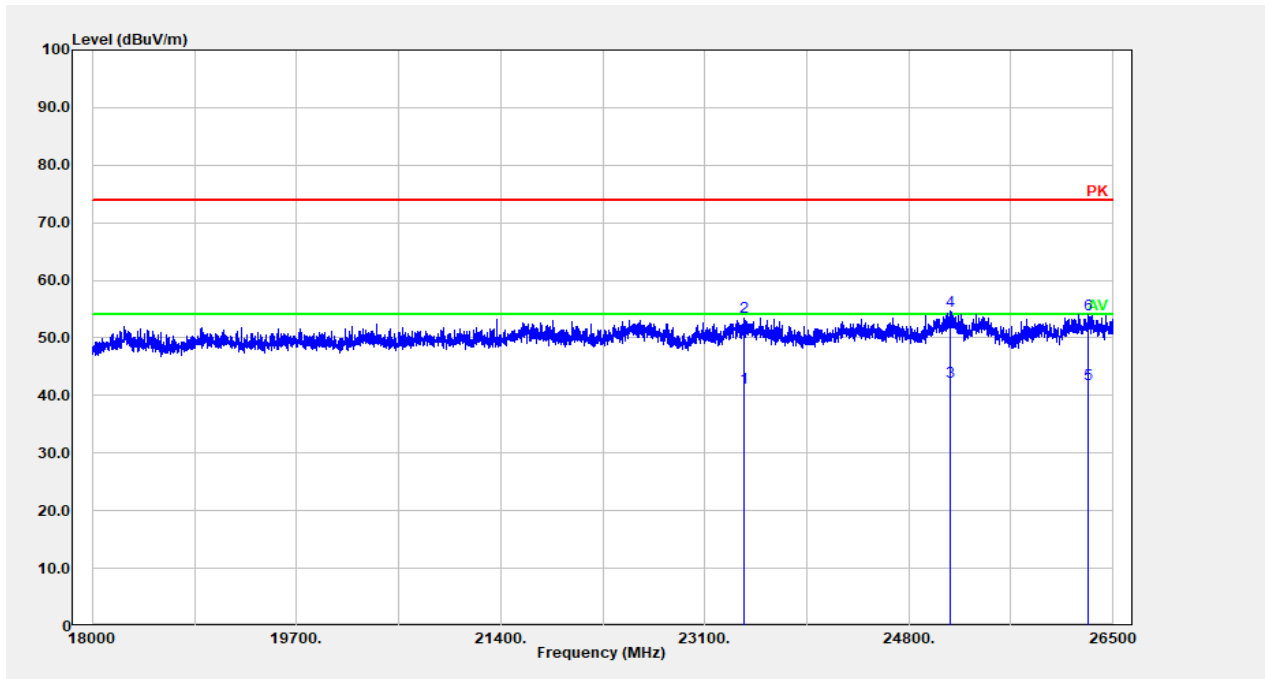
No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector
1	11914.780	21.16	20.58	41.74	54.00	12.26	Average
2	11914.780	33.33	20.58	53.91	74.00	20.09	Peak
3	14785.760	22.34	24.07	46.41	54.00	7.59	Average
4	14785.760	34.66	24.07	58.73	74.00	15.27	Peak
5	15697.940	25.12	21.23	46.35	54.00	7.65	Average
6	15697.940	37.25	21.23	58.48	74.00	15.52	Peak

**Horizontal:**

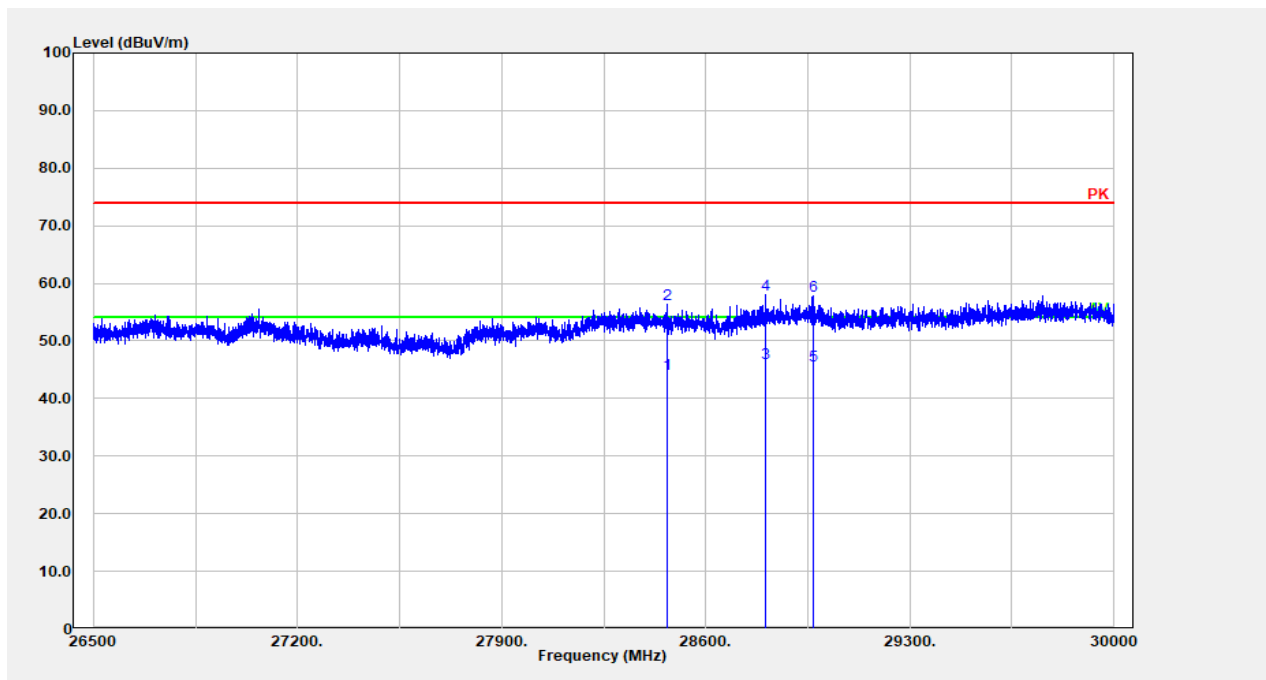
No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector
1	22040.010	31.43	9.00	40.43	54.00	13.57	Average
2	22040.010	43.85	9.00	52.85	74.00	21.15	Peak
3	23422.380	31.32	11.17	42.49	54.00	11.51	Average
4	23422.380	43.74	11.17	54.91	74.00	19.09	Peak
5	25207.740	29.07	13.52	42.59	54.00	11.41	Average
6	25207.740	41.00	13.52	54.52	74.00	19.48	Peak



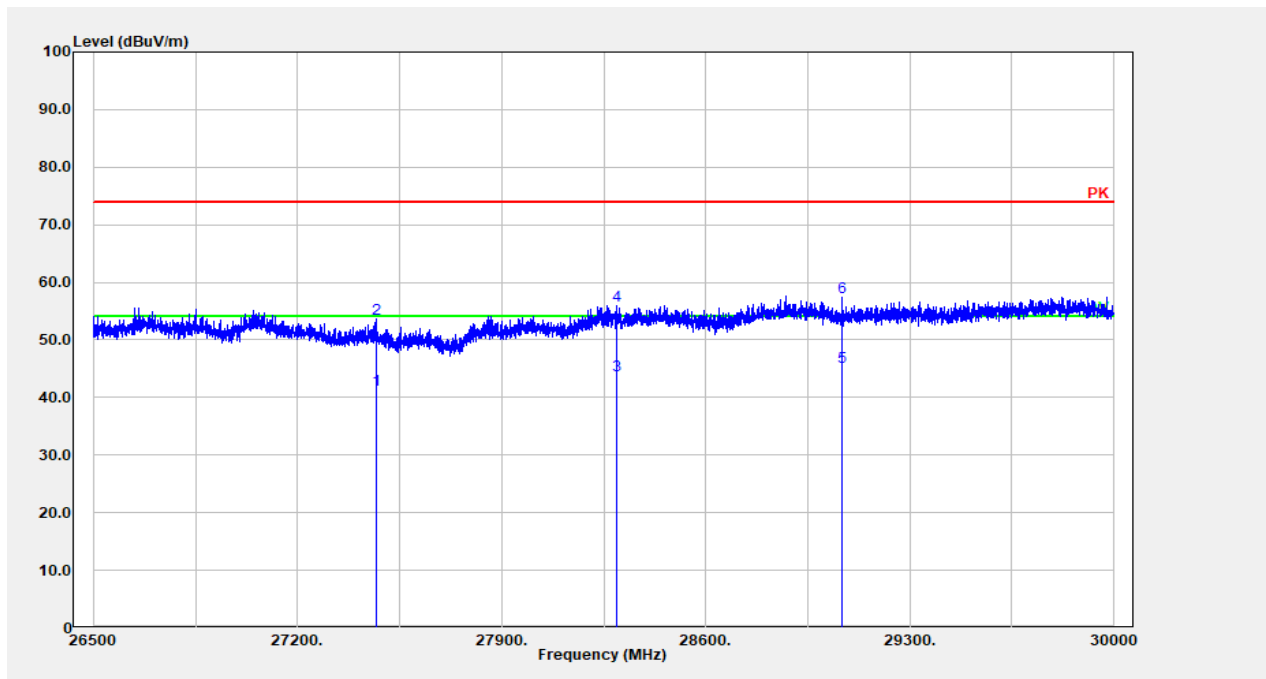
**Vertical:**



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	23427.490	30.13	11.18	41.31	54.00	12.69	Average
2	23427.490	42.37	11.18	53.55	74.00	20.45	Peak
3	25141.430	29.34	13.04	42.38	54.00	11.62	Average
4	25141.430	41.68	13.04	54.72	74.00	19.28	Peak
5	26294.260	29.06	12.91	41.97	54.00	12.03	Average
6	26294.260	41.17	12.91	54.08	74.00	19.92	Peak

**Horizontal:**

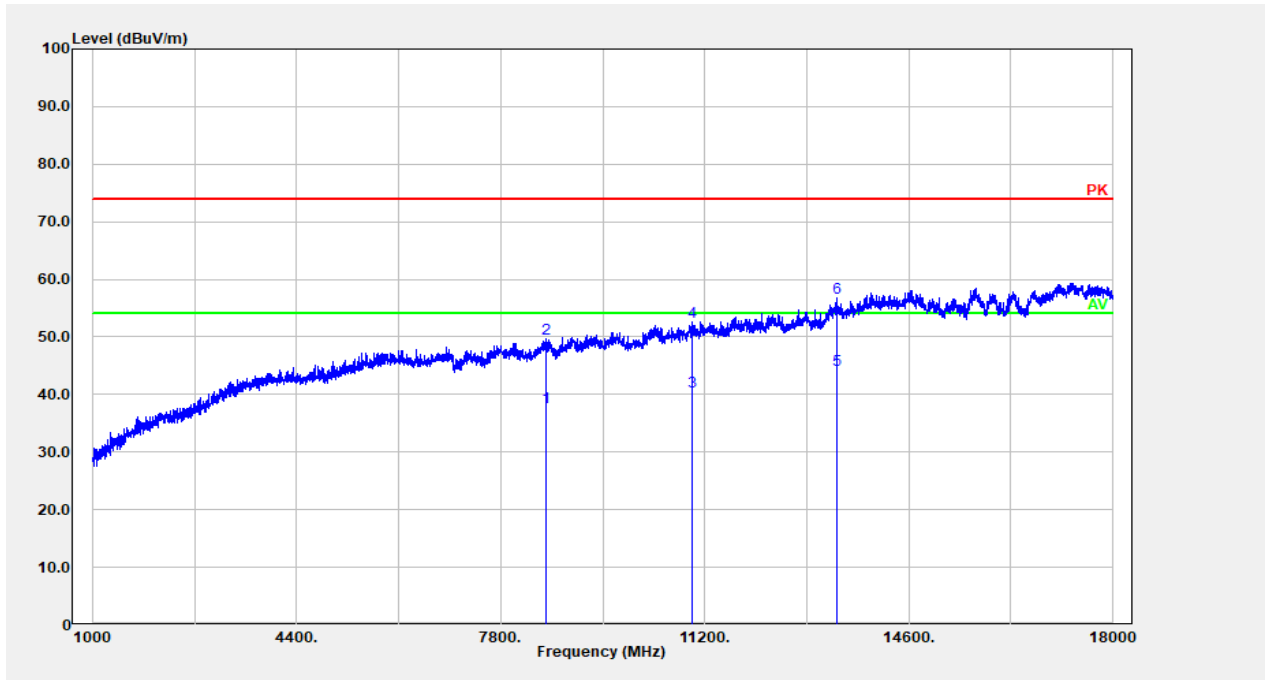
No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector
1	28466.690	30.15	14.04	44.19	54.00	9.81	Average
2	28466.690	42.33	14.04	56.37	74.00	17.63	Peak
3	28804.160	31.04	15.00	46.04	54.00	7.96	Average
4	28804.160	43.09	15.00	58.09	74.00	15.91	Peak
5	28969.390	31.08	14.65	45.73	54.00	8.27	Average
6	28969.390	43.16	14.65	57.81	74.00	16.19	Peak

**Vertical:**

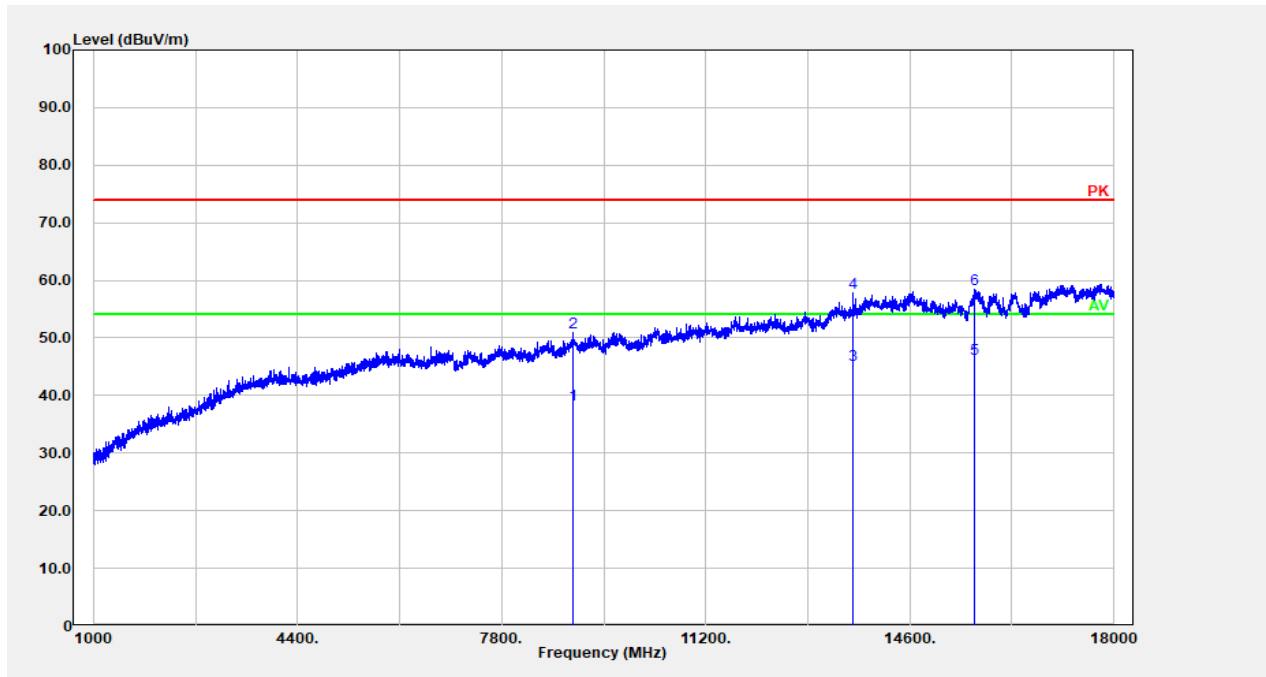
No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector
1	27469.690	27.34	13.91	41.25	54.00	12.75	Average
2	27469.690	39.68	13.91	53.59	74.00	20.41	Peak
3	28293.760	30.14	13.72	43.86	54.00	10.14	Average
4	28293.760	42.28	13.72	56.00	74.00	18.00	Peak
5	29066.710	31.04	14.32	45.36	54.00	8.64	Average
6	29066.710	43.03	14.32	57.35	74.00	16.65	Peak

**M3**

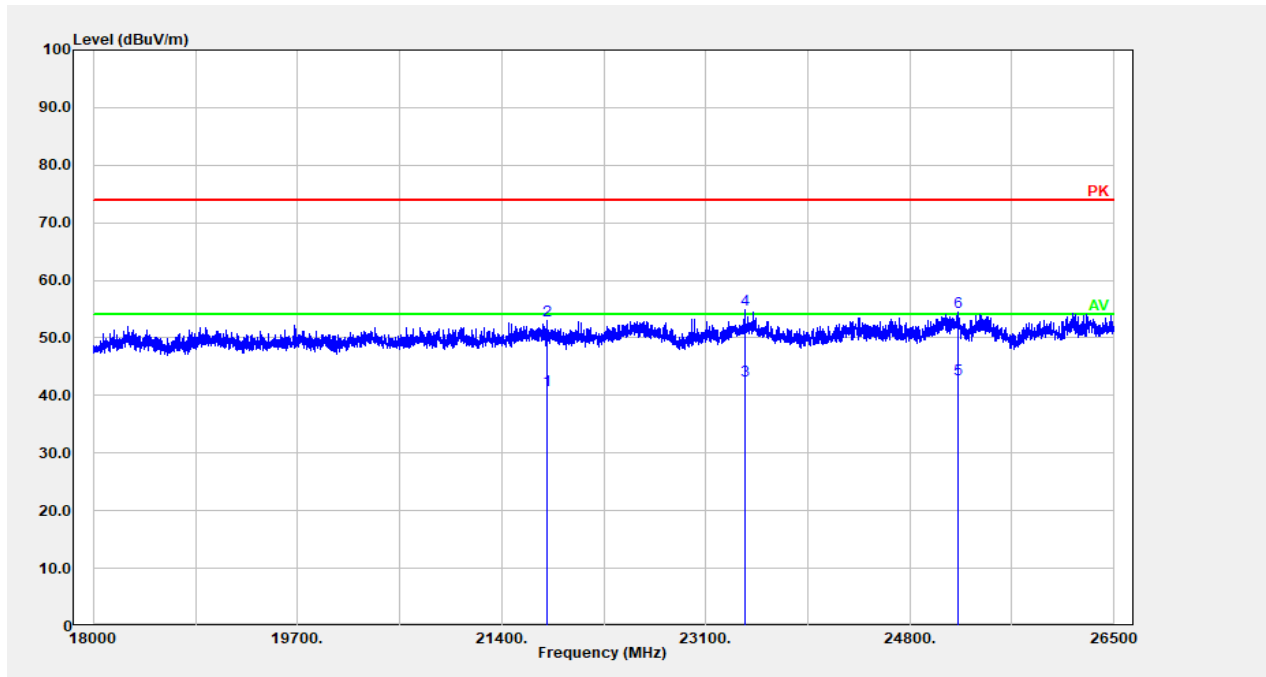
**Horizontal:**



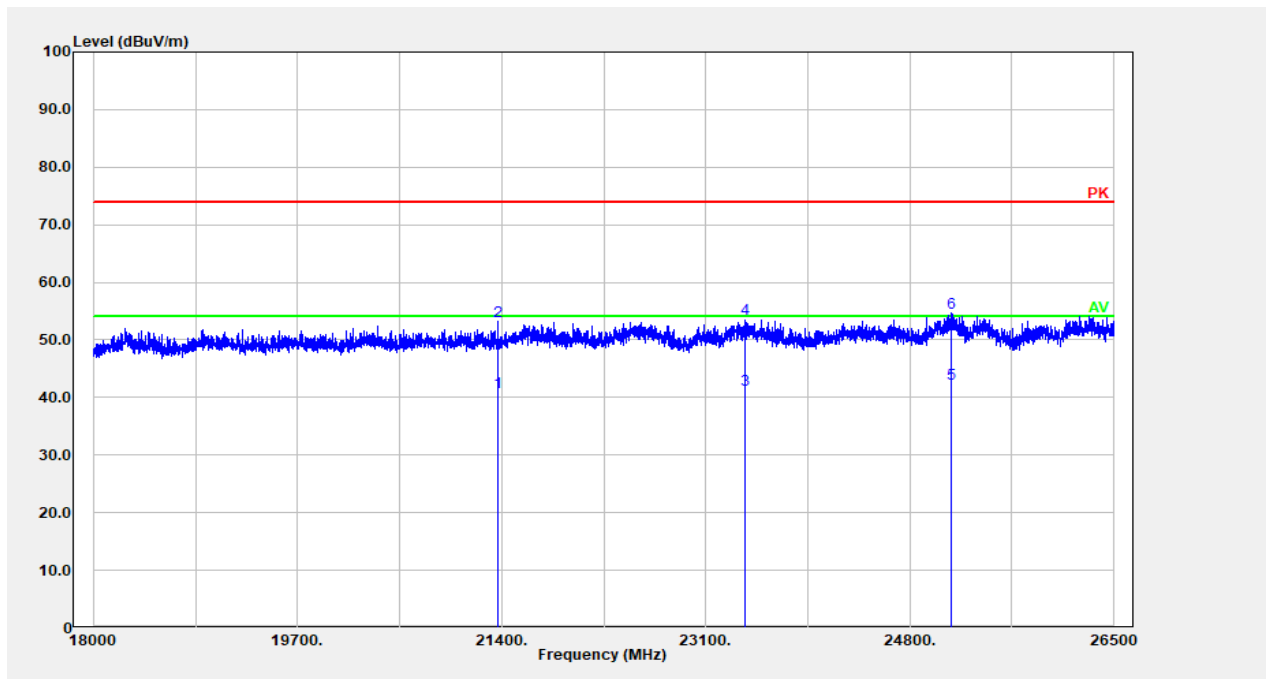
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	8546.109	21.03	16.66	37.69	54.00	16.31	Average
2	8546.109	33.01	16.66	49.67	74.00	24.33	Peak
3	10984.400	21.13	19.31	40.44	54.00	13.56	Average
4	10984.400	33.27	19.31	52.58	74.00	21.42	Peak
5	13405.680	21.43	22.80	44.23	54.00	9.77	Average
6	13405.680	33.97	22.80	56.77	74.00	17.23	Peak

**Vertical:**

No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector
1	8994.999	21.32	17.16	38.48	54.00	15.52	Average
2	8994.999	33.75	17.16	50.91	74.00	23.09	Peak
3	13650.530	22.41	22.87	45.28	54.00	8.72	Average
4	13650.530	34.93	22.87	57.80	74.00	16.20	Peak
5	15687.540	25.15	21.21	46.36	54.00	7.64	Average
6	15687.540	37.31	21.21	58.52	74.00	15.48	Peak

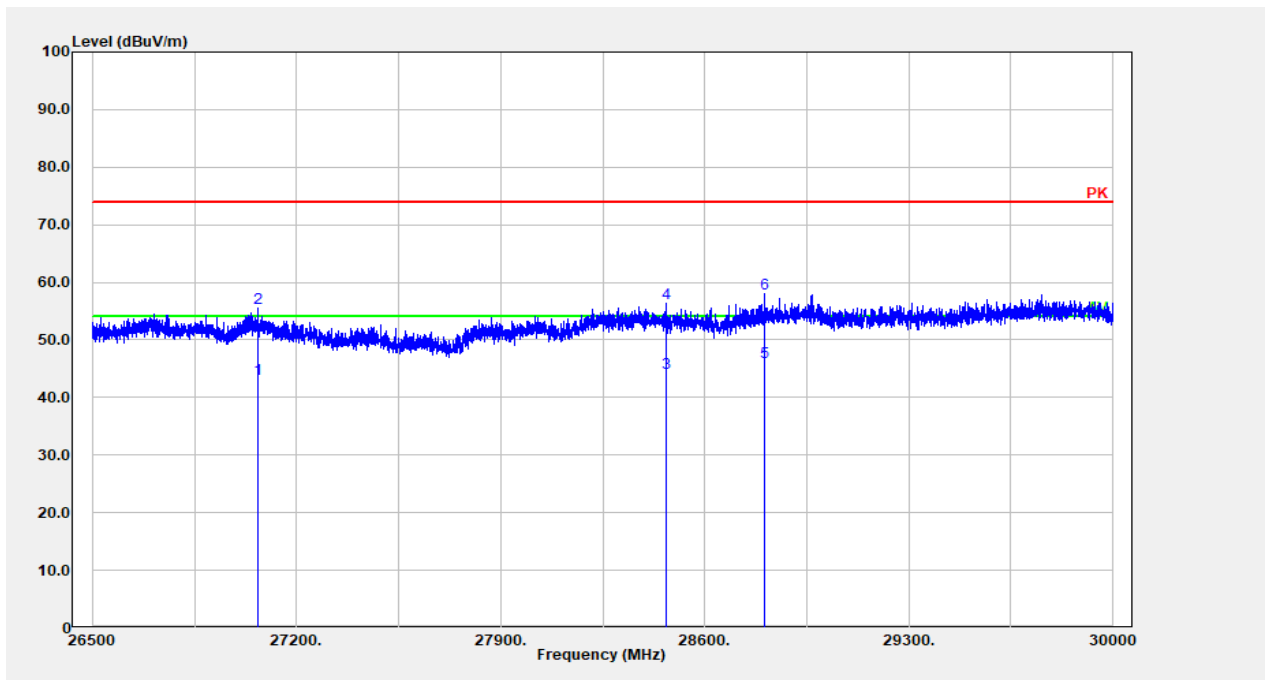
**Horizontal:**

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	21773.050	32.14	8.74	40.88	54.00	13.12	Average
2	21773.050	44.29	8.74	53.03	74.00	20.97	Peak
3	23422.380	31.32	11.17	42.49	54.00	11.51	Average
4	23422.380	43.74	11.17	54.91	74.00	19.09	Peak
5	25207.740	29.21	13.52	42.73	54.00	11.27	Average
6	25207.740	41.00	13.52	54.52	74.00	19.48	Peak

**Vertical:**

No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector
1	21364.970	32.43	8.39	40.82	54.00	13.18	Average
2	21364.970	44.77	8.39	53.16	74.00	20.84	Peak
3	23427.490	30.13	11.18	41.31	54.00	12.69	Average
4	23427.490	42.37	11.18	53.55	74.00	20.45	Peak
5	25141.430	29.34	13.04	42.38	54.00	11.62	Average
6	25141.430	41.68	13.04	54.72	74.00	19.28	Peak

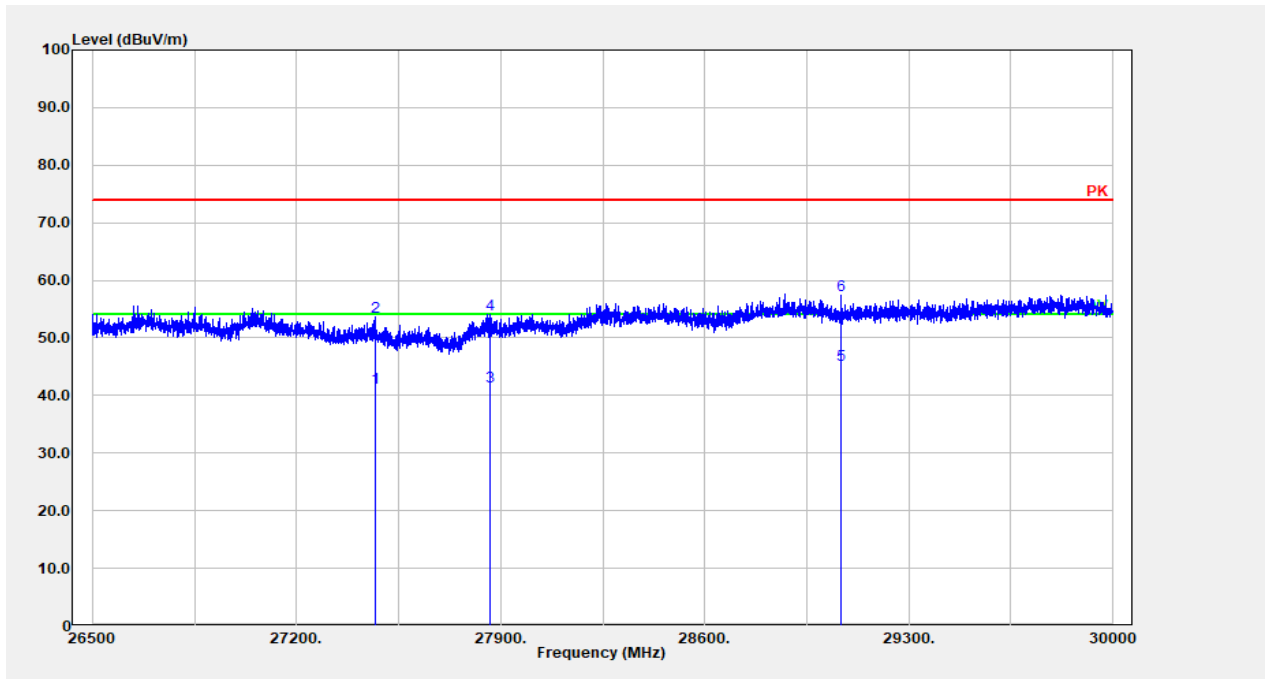
**Horizontal:**



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	27065.710	29.13	14.11	43.24	54.00	10.76	Average
2	27065.710	41.36	14.11	55.47	74.00	18.53	Peak
3	28466.690	30.15	14.04	44.19	54.00	9.81	Average
4	28466.690	42.33	14.04	56.37	74.00	17.63	Peak
5	28804.160	31.04	15.00	46.04	54.00	7.96	Average
6	28804.160	43.09	15.00	58.09	74.00	15.91	Peak



**Vertical:**



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	27469.690	27.34	13.91	41.25	54.00	12.75	Average
2	27469.690	39.68	13.91	53.59	74.00	20.41	Peak
3	27864.570	27.31	14.33	41.64	54.00	12.36	Average
4	27864.570	39.74	14.33	54.07	74.00	19.93	Peak
5	29066.710	31.01	14.32	45.33	54.00	8.67	Average
6	29066.710	43.03	14.32	57.35	74.00	16.65	Peak

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