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Revision History

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1. General Information

1.1 Applicant & Manufacturer Information

Applicant : Sony Mobile Communications Inc.
Address of Applicant : 4-12-3, Higashi-Shinagawa, Shinagawa-ku, Tokyo,
140-0002 Japan
Manufacturer : Sony Mobile Communications Inc.
Address of Manufacturer : 4-12-3, Higashi-Shinagawa, Shinagawa-ku, Tokyo,
140-0002 Japan

1.2 General Description of EUT

Brand Name : Sony
FCC ID : PY7-47130J

1.3 Details of EUT

Power Supply : 11.1Vdc
Worst case : CE_Worst_case : Config 3 (MP3 Play)
RE_Worst_case : Config 3 (MP3 Play)
Highest operate description : 1.782 GHz
Adapter : Model No.: UCH30C
Supplier:PHIHONG
I/P:100-240V, 50/60Hz, 1A
O/P:5V, 3A
9V, 3A
15V,3A
Ferrite core : Type number: ZCAT-2035-0930A-BK
Supplier: TDK

FCC 15B	<i>Config 1</i>	<i>Config 2</i>	<i>Config 3</i>
Applicable standard (FCC 15B)			
Accessories	EUT +AC charger +HDMI Cable	EUT +HDMI Cable +USB Cable	EUT +AC charger +HDMI Cable

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1.4 Operation Procedure

Config 1:

1. Connect the EUT to the SIM Card & Adapter & HDMI Cable and place it in the center of the desk edge.
2. After the EUT is turned on, the WIFI.BT.GPS.NFC function (Idle) and the WWAN is not connected to the analog base station.
3. EUT through the HDMI Cable computer image screen projection.
4. Start the test.

Config 2:

1. Connect the EUT to the SIM Card & USB Cable & HDMI Cable.
2. After the EUT is turned on, the WIFI.BT.GPS.NFC function (Idle) and the WWAN is not connected to the analog base station.
3. The EUT transmits data via a USB cable to a computer.
4. Start the test.

Config 3: MP3 Play

1. Connect the EUT to the SIM Card & USB Cable & HDMI Cable.
2. After the EUT is turned on, the WIFI.BT.GPS.NFC function (Idle) and the WWAN is not connected to the analog base station.
3. After the EUT plays the music, start the test.

Config 3: Recording

1. Connect the EUT to the SIM Card & USB Cable & HDMI Cable.
2. After the EUT is turned on, the WIFI.BT.GPS.NFC function (Idle) and the WWAN is not connected to the analog base station.
3. After the EUT performs the recording function, start the test.

Config 3: Play recording

1. Connect the EUT to the SIM Card & USB Cable & HDMI Cable.
2. After the EUT is turned on, the WIFI.BT.GPS.NFC function (Idle) and the WWAN is not connected to the analog base station.
3. After the EUT executes the playback function, start the test.

1.5 Description of Support Units

PRODUCT	MANUFACTURER	MODEL NO.	SERIAL NO.
Notebook	DELL	Latitude E6440	3VGS162
Mouse	DELL	MS111-T	CN-OKW2YH-71616-345-OL7T
Printer	HP	VCVRA-1004	CN33K19J3F
SIM Card	R&S	CMW-Z05	8952530076180138474
GPS Signal Generator	Spectracom	GSG53 GNSS4	200218

Support Equipment Used in Tested Cable

Cable Type	Core	Length	Shielding/Non-shielding
Mouse Cable	N/A	1.6m	Non-Shielding
Printer USB Cable	N/A	2.0m	Shielding

1.6 Modification List

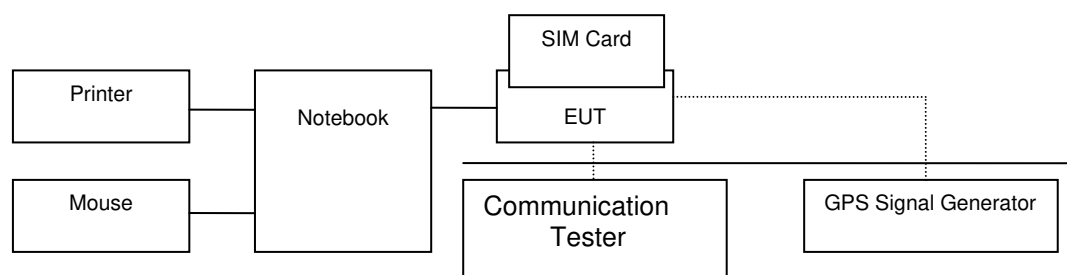
No modification was made by SGS Taiwan Electronics & Communication Laboratory.

1.7 Accessories Cable List

Cable Type	Core	Length	Shielding/Non-shielding
Power Cable	N/A	1m	N/A
HDMI Cable	N/A	1m	Shielding
USB - Type C Cable	N/A	1m	Shielding

1.8 Test Set-Up Configuration

Config 1 & 2 & 3



1.9 Measurement Procedure

Conducted Emission Testing was performed according to ANSI C63.4:2014 in a shielded room with peripherals placed on a table, 0.8m high over a metal floor. It was located more than required distance away from the shielded room wall.

Radiated Emission Testing was performed according to ANSI C63.4:2014 at the 3/10m semi-anechoic chamber. The EUT was placed on a 0.8m high table along with the peripherals. The turn table was placed 10m distance from the antenna. Cables were placed in a position to produce maximum emissions as determined by experimentation, and operation mode was selected for production of maximum emission.

The frequencies and amplitudes of maximum emission were measured at varying azimuths, antenna heights and antenna polarities. Maximum emission levels are then reported.

1.10 Standards Applicable for Testing

Tests to be carried out under FCC Part 15, Subpart B/CISPR 22

Test Standards	Status
FCC Part 15, Subpart B/ CISPR 22	Applicable
Deviation from Standard	No deviation

1.11 Summary of Results

Highest Emission					
Standard	Test Type	Result	Phase/Pol.	Frequency(MHz)	Margin(dB)
FCC Part 15 Subpart B Class B	Conducted Emission	PASS	Line	0.5900	-10.35 (AVG)
			Neutral	0.5900	-10.60 (AVG)
	Radiated Emission	PASS	Ver.	35.8200	-2.70 (QP)

2. EMISSION

2.1 Test Results

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2.3 Limits of Conducted and Radiated Emission

2.3.1 Limits of Conducted Emission

FCC Part 15, Subpart B/CISPR 22:

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi - peak	Average	Quasi - peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.50 - 5.0	73	60	56	46
5.0 - 30.0	73	60	60	50

Note : (1) The lower limit shall apply at the transition frequencies.

(2) The limit decreases linearly with the logarithm of the frequency in the range 0.15 to 0.50 MHz.

(3) All emanation from a class A/B digital device or system, including any network of conductors and apparatus connected there to, shall not exceed the level of field strengths specified above.

2.3.2 Limits of Radiated Emissions

FCC Part 15, Subpart B Limit:

- Detector Function : Quasi – Peak

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 3m)
	dBuV/m	dBuV/m
30~88	39	40
88~216	43.5	43.5
216~960	46.44	46
Above 960	49.54	54

- Detector Function : Peak , Average

FREQUENCY (MHz)	Class A (dBuV/m) (at 3m)		Class B (dBuV/m) (at 3m)	
	Peak	Average	Peak	Average
Above 1000-40000	79.3	59.3	73.9	53.9

CISPR 22 Limit:

- Detector Function : Quasi – Peak

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 10m)
	dBuV/m	dBuV/m
30-230	40	30
230-1000	47	37

NOTE 1 The lower limit shall apply at the transition frequency.

NOTE 2 Additional provisions may be required for cases where interference occurs.

FREQUENCY (GHz)	Class A (dBuV/m) (at 3m)		Class B (dBuV/m) (at 3m)	
	Average	Peak	Average	Peak
1~3	56	76	50	70
3~6	60	80	54	74

NOTE The lower limit applies at the transition frequency.

2.4. Test of Conducted Emission

2.4.1 Test Equipments

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2.4.4 Measurement Data:

Config_1_L



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1641	43.38	0.38	43.76	65.25	-21.49	QP	
2		0.1641	30.45	0.38	30.83	55.25	-24.42	AVG	
3		0.1780	41.51	0.39	41.90	64.58	-22.68	QP	
4		0.1780	24.19	0.39	24.58	54.58	-30.00	AVG	
5		0.4340	35.10	0.39	35.49	57.18	-21.69	QP	
6		0.4340	31.51	0.39	31.90	47.18	-15.28	AVG	
7		0.5980	24.20	0.40	24.60	56.00	-31.40	QP	
8		0.5980	19.05	0.40	19.45	46.00	-26.55	AVG	
9		2.3300	39.55	0.42	39.97	56.00	-16.03	QP	
10		2.3300	34.04	0.42	34.46	46.00	-11.54	AVG	
11		2.6900	39.18	0.43	39.61	56.00	-16.39	QP	
12		2.6900	33.72	0.43	34.15	46.00	-11.85	AVG	
13		4.8820	41.68	0.45	42.13	56.00	-13.87	QP	

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No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
14	*	4.8820	34.76	0.45	35.21	46.00	-10.79	AVG	

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Config_1_N



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1540	43.60	0.38	43.98	65.78	-21.80	QP	
2		0.1540	26.42	0.38	26.80	55.78	-28.98	AVG	
3		0.1900	43.90	0.39	44.29	64.04	-19.75	QP	
4		0.1900	33.40	0.39	33.79	54.04	-20.25	AVG	
5		0.5820	28.05	0.40	28.45	56.00	-27.55	QP	
6		0.5820	21.02	0.40	21.42	46.00	-24.58	AVG	
7		2.3180	39.75	0.42	40.17	56.00	-15.83	QP	
8 *		2.3180	34.20	0.42	34.62	46.00	-11.38	AVG	
9		2.6940	38.94	0.43	39.37	56.00	-16.63	QP	
10		2.6940	33.50	0.43	33.93	46.00	-12.07	AVG	
11		4.9180	41.01	0.46	41.47	56.00	-14.53	QP	
12		4.9180	32.94	0.46	33.40	46.00	-12.60	AVG	

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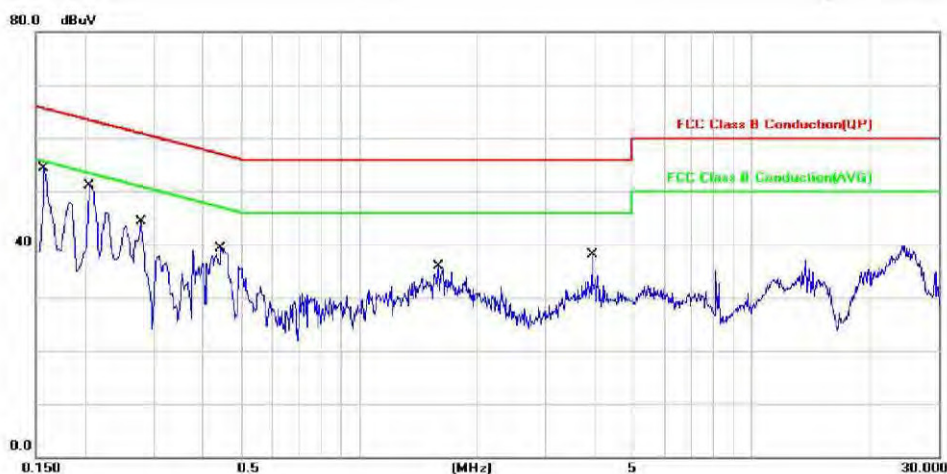
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Config_2_Internal Storage Write_L

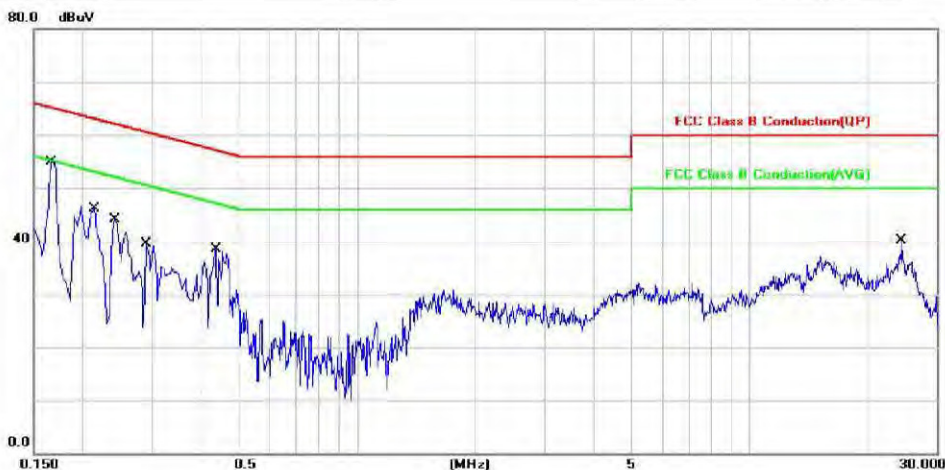


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1580	48.50	0.33	48.83	65.57	-16.74	QP	
2		0.1580	31.10	0.33	31.43	55.57	-24.14	AVG	
3 *		0.2060	46.40	0.36	46.76	63.37	-16.61	QP	
4		0.2060	30.80	0.36	31.16	53.37	-22.21	AVG	
5		0.2780	39.60	0.36	39.96	60.88	-20.92	QP	
6		0.2780	29.60	0.36	29.96	50.88	-20.92	AVG	
7		0.4460	35.20	0.37	35.57	56.95	-21.38	QP	
8		0.4460	23.40	0.37	23.77	46.95	-23.18	AVG	
9		1.5940	32.80	0.37	33.17	56.00	-22.83	QP	
10		1.5940	22.70	0.37	23.07	46.00	-22.93	AVG	
11		3.9380	26.00	0.40	26.40	56.00	-29.60	QP	
12		3.9380	19.30	0.40	19.70	46.00	-26.30	AVG	

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Config_2_Internal Storage Write_N



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1660	45.90	0.38	46.28	65.16	-18.88	QP	
2		0.1660	28.70	0.38	29.08	55.16	-26.08	AVG	
3		0.2140	42.70	0.39	43.09	63.05	-19.96	QP	
4 *		0.2140	34.70	0.39	35.09	53.05	-17.96	AVG	
5		0.2420	39.20	0.39	39.59	62.03	-22.44	QP	
6		0.2420	26.80	0.39	27.19	52.03	-24.84	AVG	
7		0.2900	34.40	0.39	34.79	60.52	-25.73	QP	
8		0.2900	23.50	0.39	23.89	50.52	-26.63	AVG	
9		0.4380	36.50	0.39	36.89	57.10	-20.21	QP	
10		0.4380	23.60	0.39	23.99	47.10	-23.11	AVG	
11		24.5260	26.70	0.97	27.67	60.00	-32.33	QP	
12		24.5260	21.50	0.97	22.47	50.00	-27.53	AVG	

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Config_3_L



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1620	41.00	0.38	41.38	65.36	-23.98	QP	
2		0.1620	26.14	0.38	26.52	55.36	-28.84	AVG	
3		0.2220	33.96	0.39	34.35	62.74	-28.39	QP	
4		0.2220	22.26	0.39	22.65	52.74	-30.09	AVG	
5		0.5980	24.05	0.40	24.45	56.00	-31.55	QP	
6		0.5980	19.09	0.40	19.49	46.00	-26.51	AVG	
7		2.2700	39.79	0.42	40.21	56.00	-15.79	QP	
8		2.2700	33.93	0.42	34.35	46.00	-11.65	AVG	
9		2.6660	41.02	0.43	41.45	56.00	-14.55	QP	
10	*	2.6660	35.11	0.43	35.54	46.00	-10.46	AVG	
11		5.1460	41.40	0.46	41.86	60.00	-18.14	QP	
12		5.1460	33.34	0.46	33.80	50.00	-16.20	AVG	

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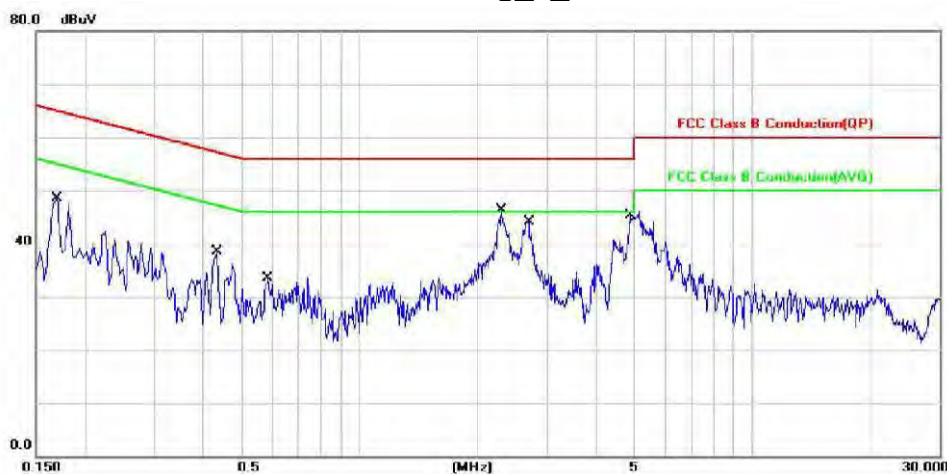
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Config_3_N



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1700	46.00	0.38	46.38	64.96	-18.58	QP	
2		0.1700	34.47	0.38	34.85	54.96	-20.11	AVG	
3		0.4340	36.64	0.39	37.03	57.18	-20.15	QP	
4		0.4340	32.30	0.39	32.69	47.18	-14.49	AVG	
5		0.5860	28.05	0.40	28.45	56.00	-27.55	QP	
6		0.5860	17.63	0.40	18.03	46.00	-27.97	AVG	
7		2.2980	40.22	0.42	40.64	56.00	-15.36	QP	
8 *		2.2980	33.95	0.42	34.37	46.00	-11.63	AVG	
9		2.6980	38.72	0.43	39.15	56.00	-16.85	QP	
10		2.6980	33.23	0.43	33.66	46.00	-12.34	AVG	
11		4.8820	39.44	0.45	39.89	56.00	-16.11	QP	
12		4.8820	32.02	0.45	32.47	46.00	-13.53	AVG	

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2.5 Test of Radiated Emission

2.5.1 Test Equipments

Below 1GHz

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Above 1GHz

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2.5.2 Operating Environment

Temperature : 22 degree C Humidity : 69 %RH
Atmospheric Pressure : 996 mBar

2.5.3 Measurement Level Calculation

Correction Factor = Antenna Factor + Cable loss- Amplifier Gain
Measurement Level = Reading Level + Correction Factor
Over (Margin) = Measurement Level – Limit

2.5.4 Measurement Data

Below 1GHz

Config 1_H



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		144.9800	39.87	-12.21	27.66	43.50	-15.84	QP	
2		145.4300	44.03	-12.20	31.83	43.50	-11.67	peak	
3		159.9800	45.63	-11.88	33.75	43.50	-9.75	peak	
4		159.9800	39.00	-11.88	27.12	43.50	-16.38	QP	
5		206.5400	48.33	-14.66	33.67	43.50	-9.83	peak	
6		206.5400	43.30	-14.66	28.64	43.50	-14.86	QP	
7		408.0043	38.07	-8.22	29.85	46.00	-16.15	QP	
8		408.3000	40.42	-8.21	32.21	46.00	-13.79	peak	
9		428.5731	44.55	-7.76	36.79	46.00	-9.21	QP	
10 *		428.6700	46.34	-7.76	38.58	46.00	-7.42	peak	
11		455.8300	37.95	-7.22	30.73	46.00	-15.27	peak	
12		456.0058	35.64	-7.22	28.42	46.00	-17.58	QP	

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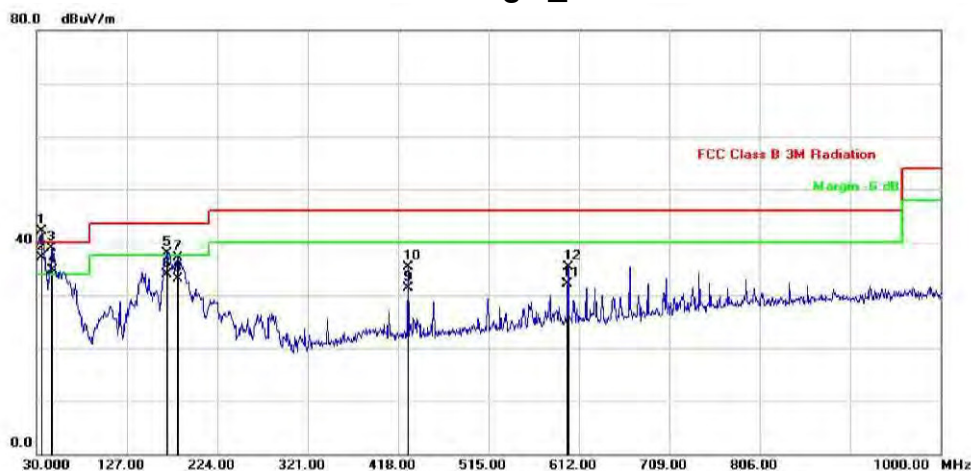
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Config 1_V



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	35.8200	54.67	-12.62	42.05	40.00	2.05	peak	
2	!	36.0000	49.80	-12.60	37.20	40.00	-2.80	QP	
3	!	46.4900	50.36	-11.51	38.85	40.00	-1.15	peak	
4	!	47.7490	46.17	-11.47	34.70	40.00	-5.30	QP	
5	!	169.6800	50.19	-12.25	37.94	43.50	-5.56	peak	
6		169.6800	46.15	-12.25	33.90	43.50	-9.60	QP	
7		181.3200	50.57	-13.49	37.08	43.50	-6.42	peak	
8		181.3200	46.69	-13.49	33.20	43.50	-10.30	QP	
9		428.5780	39.02	-7.76	31.26	46.00	-14.74	QP	
10		428.6700	43.07	-7.76	35.31	46.00	-10.69	peak	
11		600.0040	37.11	-5.00	32.11	46.00	-13.89	QP	
12		600.3600	40.21	-5.00	35.21	46.00	-10.79	peak	

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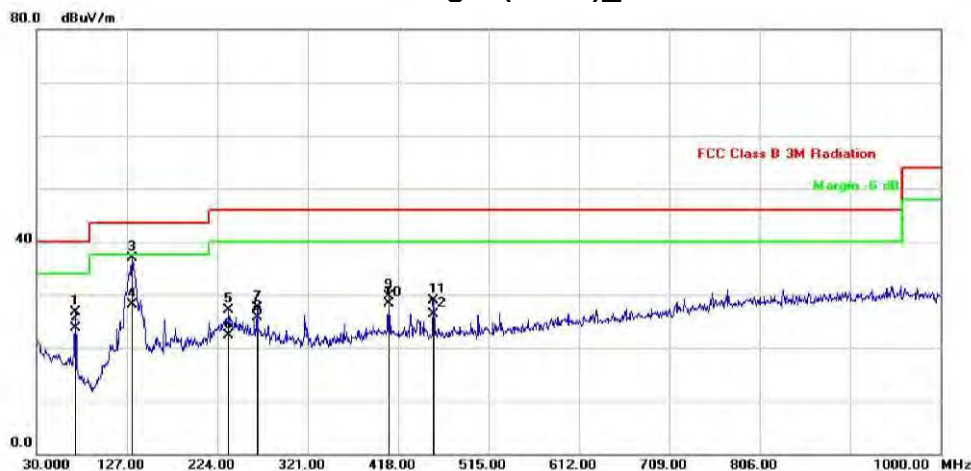
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Config 2 (Write)_H



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1		71.7100	41.51	-14.77	26.74	40.00	-13.26	peak	
2		71.7100	38.57	-14.77	23.80	40.00	-16.20	QP	
3 *		132.8200	50.00	-13.19	36.81	43.50	-6.69	peak	
4		132.8200	41.39	-13.19	28.20	43.50	-15.30	QP	
5		236.6100	40.51	-13.40	27.11	46.00	-18.89	peak	
6		236.6100	35.80	-13.40	22.40	46.00	-23.60	QP	
7		266.6800	39.59	-12.13	27.46	46.00	-18.54	peak	
8		266.6800	37.83	-12.13	25.70	46.00	-20.30	QP	
9		408.3000	37.99	-8.21	29.78	46.00	-16.22	peak	
10		408.3000	36.51	-8.21	28.30	46.00	-17.70	QP	
11		455.8300	36.21	-7.22	28.99	46.00	-17.01	peak	
12		455.8300	33.62	-7.22	26.40	46.00	-19.60	QP	

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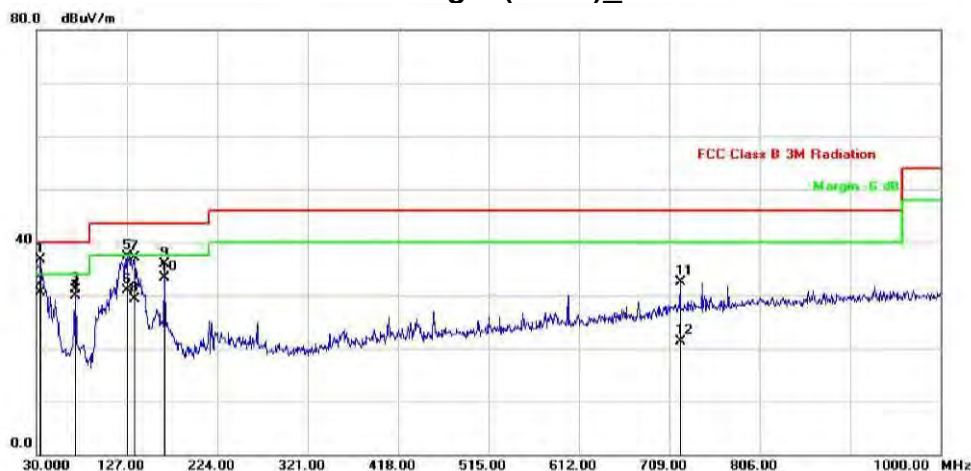
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Config 2 (Write)_V



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
1	*	34.8500	49.43	-12.75	36.68	40.00	-3.32	peak	
2		34.8500	43.25	-12.75	30.50	40.00	-9.50	QP	
3		71.7100	45.82	-14.77	31.05	40.00	-8.95	peak	
4		71.7100	44.67	-14.77	29.90	40.00	-10.10	QP	
5		127.9700	51.01	-13.74	37.27	43.50	-6.23	peak	
6		127.9700	44.74	-13.74	31.00	43.50	-12.50	QP	
7		135.7300	49.99	-12.84	37.15	43.50	-6.35	peak	
8		135.7300	42.14	-12.84	29.30	43.50	-14.20	QP	
9		167.7400	48.13	-12.17	35.96	43.50	-7.54	peak	
10		167.7400	45.57	-12.17	33.40	43.50	-10.10	QP	
11		720.6400	35.07	-2.59	32.48	46.00	-13.52	peak	
12		720.6400	23.99	-2.59	21.40	46.00	-24.60	QP	

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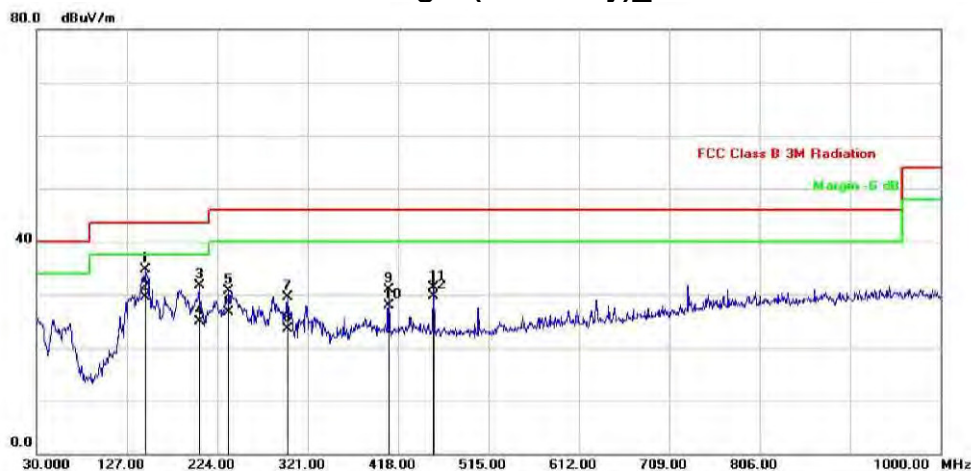
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Config 3 (MP3 Play)_H



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	146.4000	46.90	-12.18	34.72	43.50	-8.78	peak	
2		146.4000	41.71	-12.18	29.53	43.50	-13.97	QP	
3		204.6000	46.39	-14.65	31.74	43.50	-11.76	peak	
4		204.6000	39.54	-14.65	24.89	43.50	-18.61	QP	
5		236.6100	44.15	-13.40	30.75	46.00	-15.25	peak	
6		236.6100	40.18	-13.40	26.78	46.00	-19.22	QP	
7		299.6600	40.68	-11.11	29.57	46.00	-16.43	peak	
8		299.6600	34.60	-11.11	23.49	46.00	-22.51	QP	
9		408.3000	39.16	-8.21	30.95	46.00	-15.05	peak	
10		408.3000	36.02	-8.21	27.81	46.00	-18.19	QP	
11		455.8300	38.61	-7.22	31.39	46.00	-14.61	peak	
12		455.8300	36.87	-7.22	29.65	46.00	-16.35	QP	

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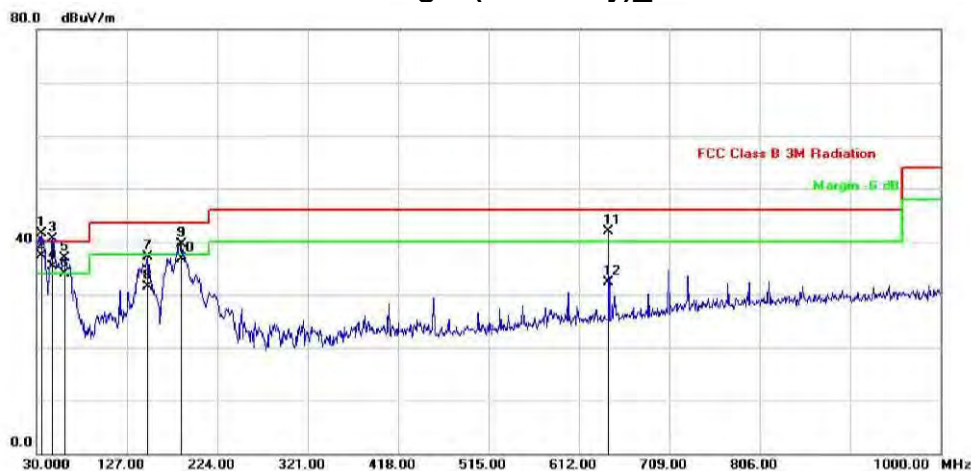
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Config 3 (MP3 Play)_V



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	35.8200	54.12	-12.62	41.50	40.00	1.50	peak	
2	!	35.8200	49.92	-12.62	37.30	40.00	-2.70	QP	
3	X	47.4600	51.99	-11.48	40.51	40.00	0.51	peak	
4	!	47.4600	46.88	-11.48	35.40	40.00	-4.60	QP	
5	!	60.0700	49.16	-12.31	36.85	40.00	-3.15	peak	
6		60.0700	46.31	-12.31	34.00	40.00	-6.00	QP	
7		149.3100	49.31	-12.11	37.20	43.50	-6.30	peak	
8		149.3100	43.53	-12.11	31.42	43.50	-12.08	QP	
9	!	185.2000	53.48	-13.90	39.58	43.50	-3.92	peak	
10		185.2000	50.65	-13.90	36.75	43.50	-6.75	QP	
11	!	644.0100	46.19	-4.34	41.85	46.00	-4.15	peak	
12		644.0100	36.74	-4.34	32.40	46.00	-13.60	QP	

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Above 1GHz

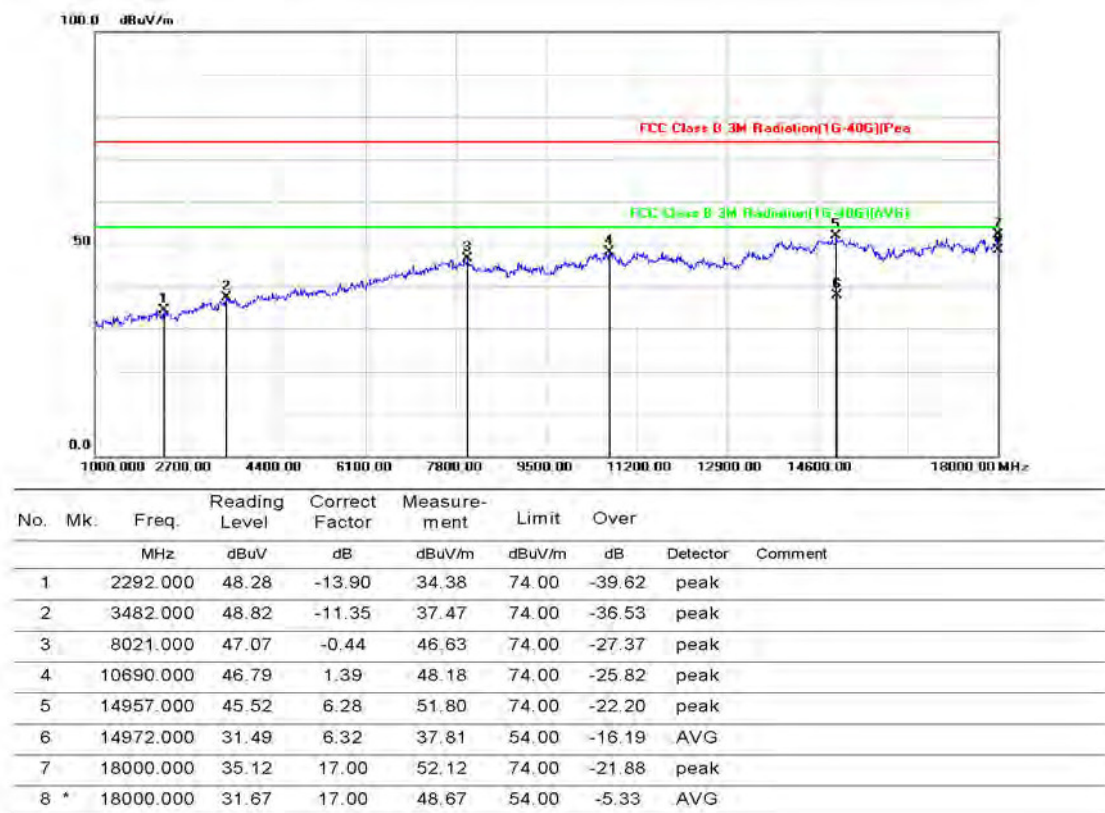
Config 1_H



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Config 1_V



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Config 2 (Write)_H



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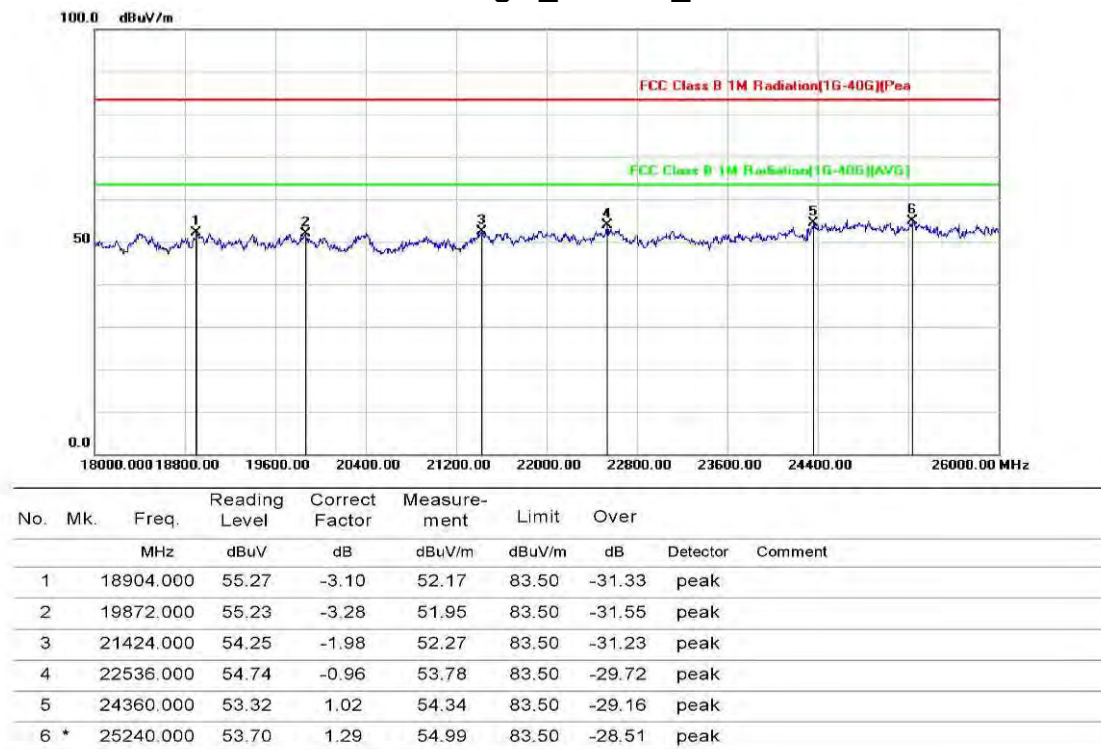
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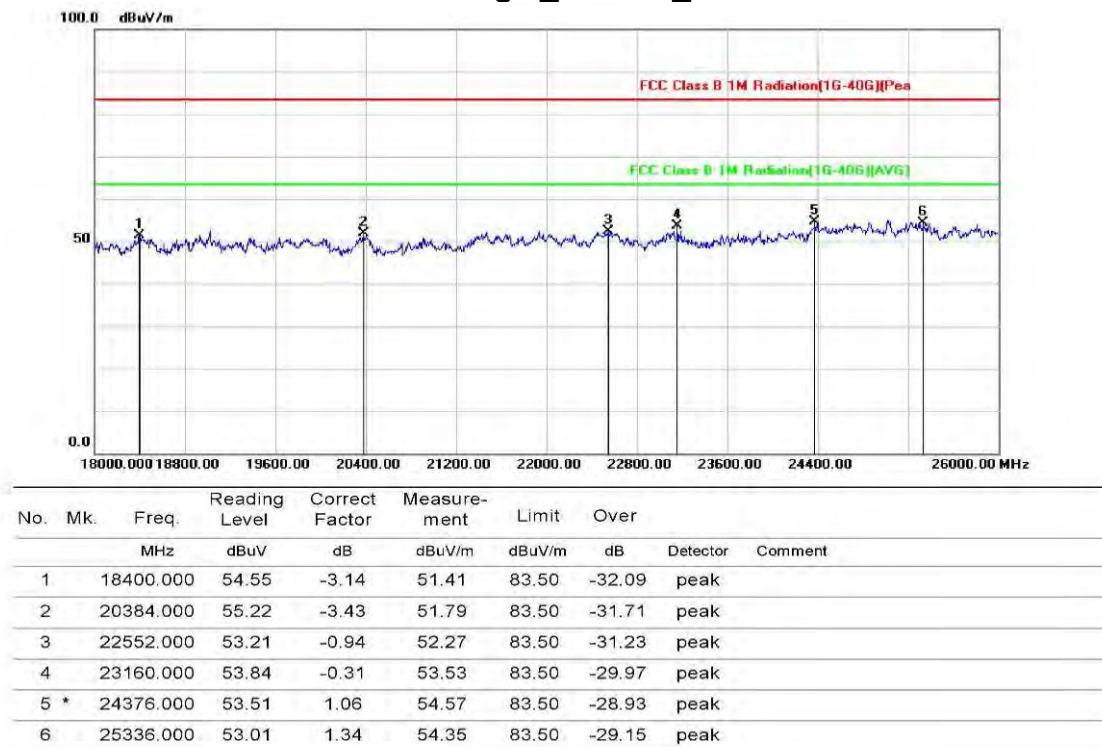
Config 1_18~26G_H



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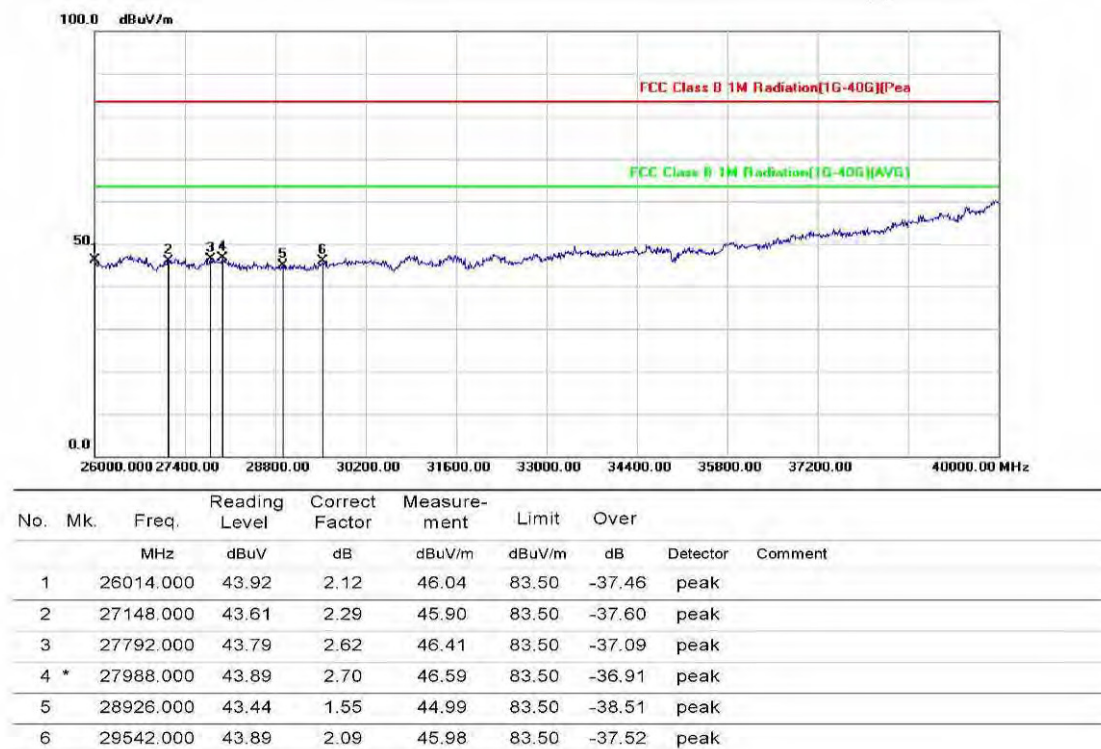
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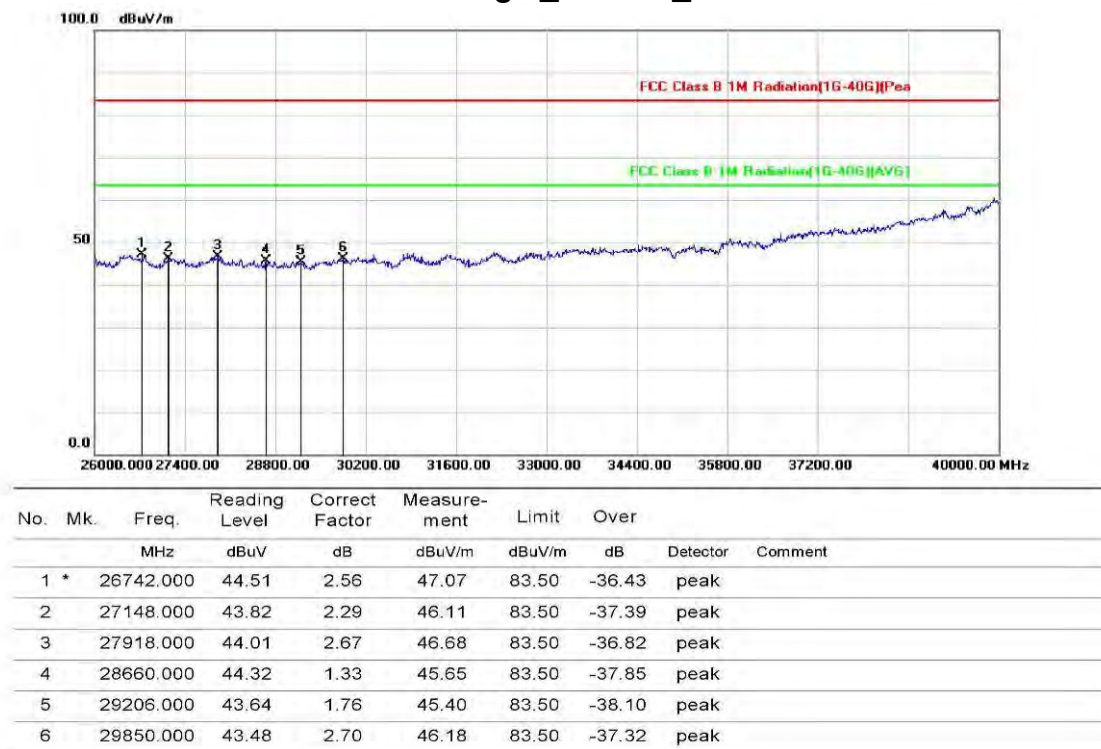
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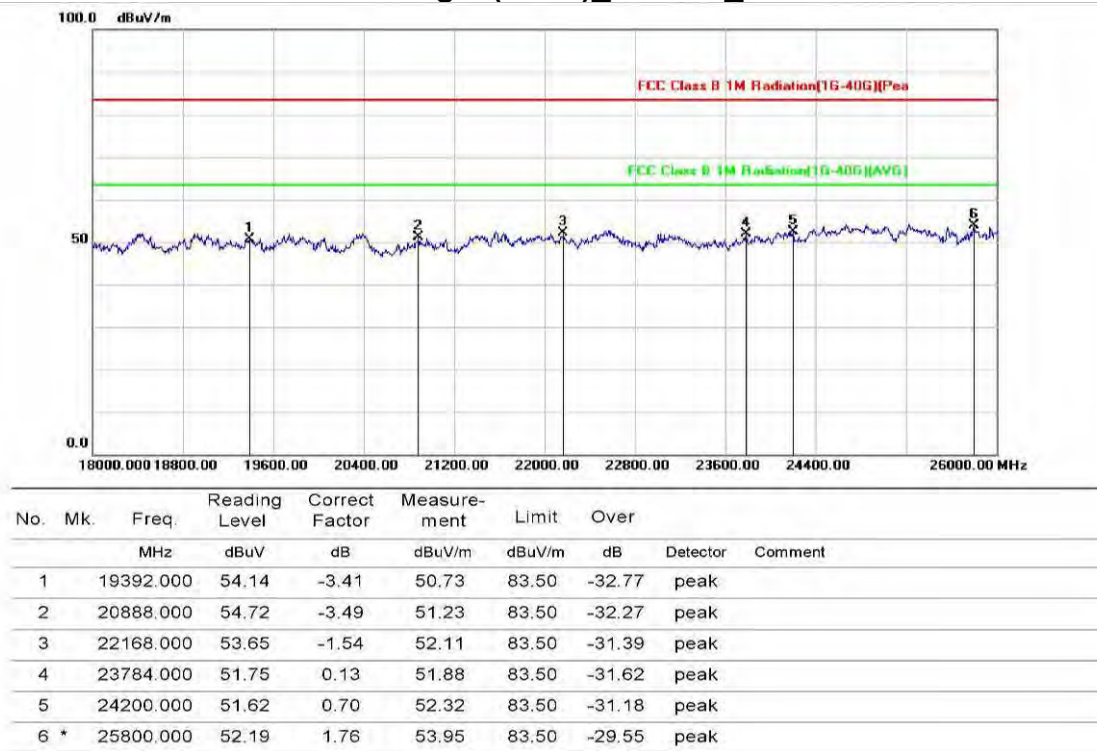
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Config 1_26~40G_V



The frequency band during 18GHz till 26.5 GHz that was not reported was verified with no extra obvious finding except ambient signals.

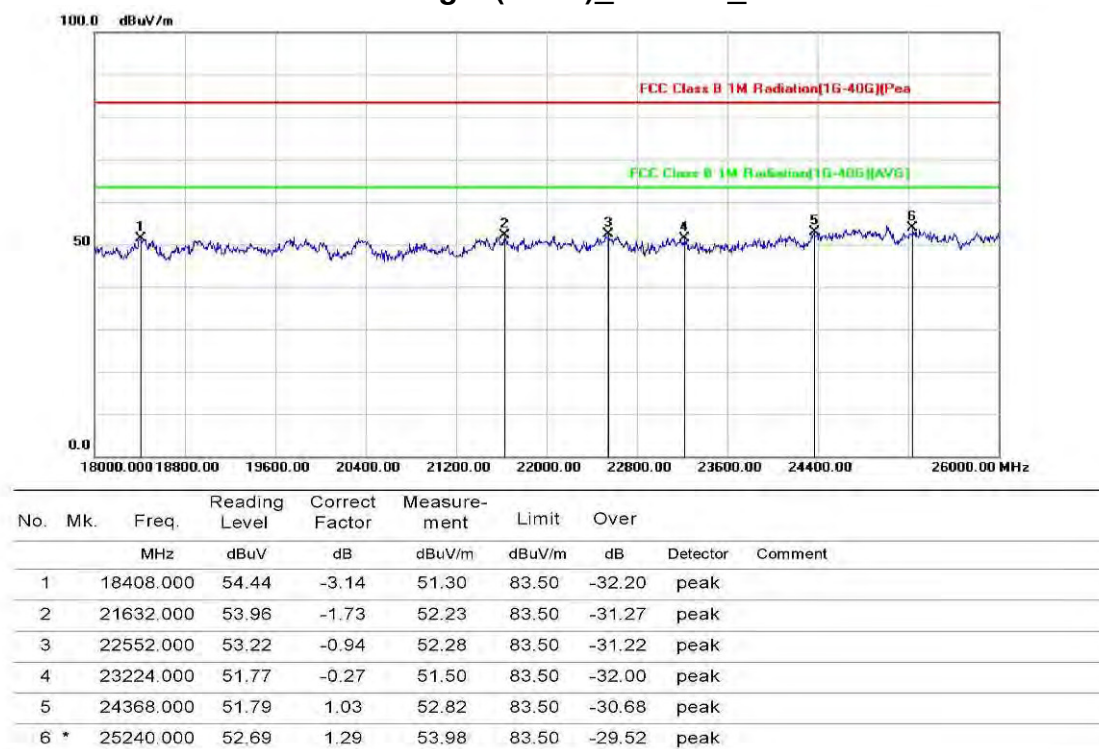
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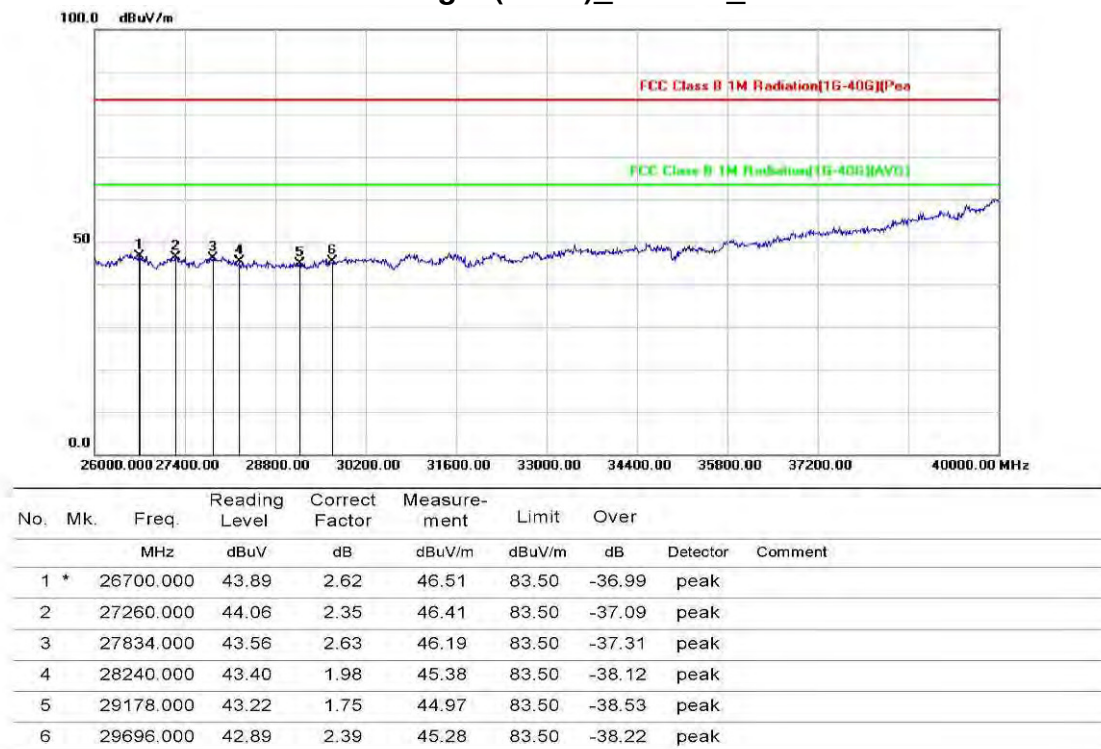
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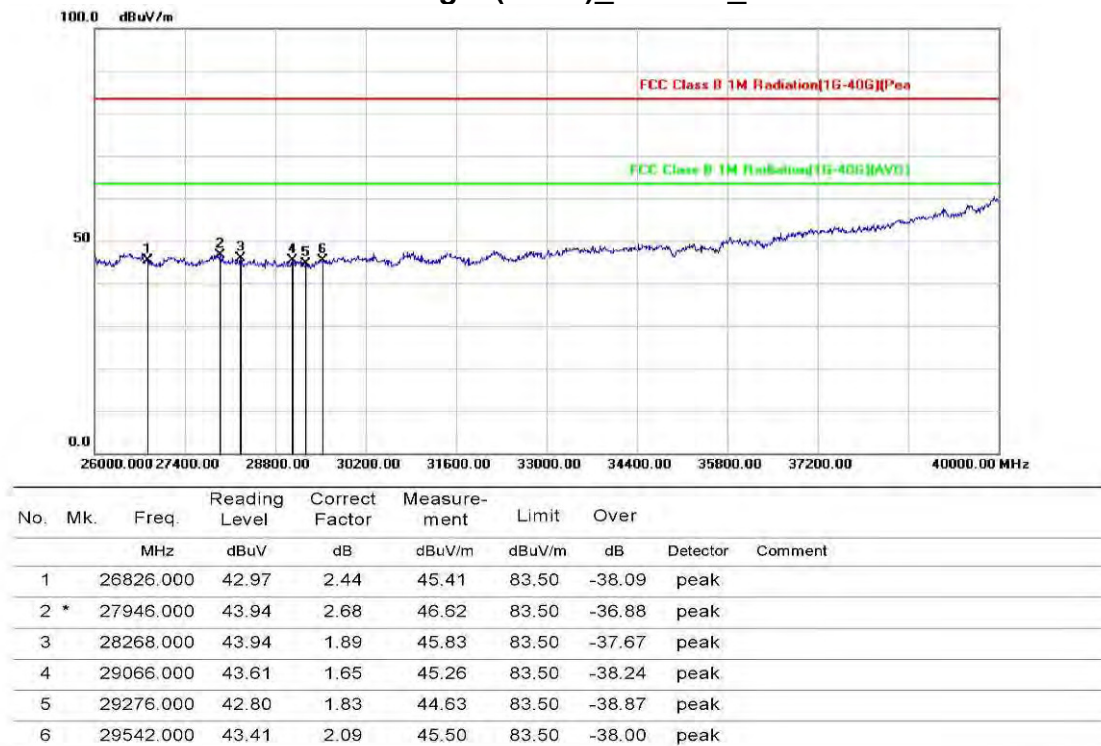
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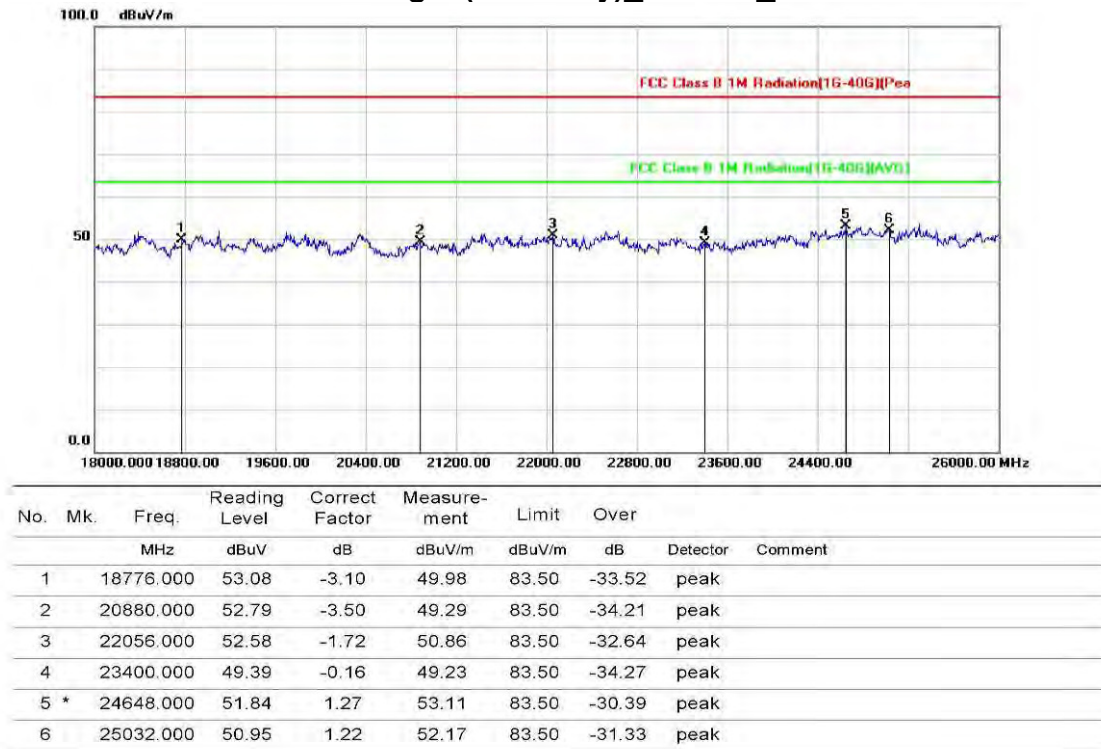
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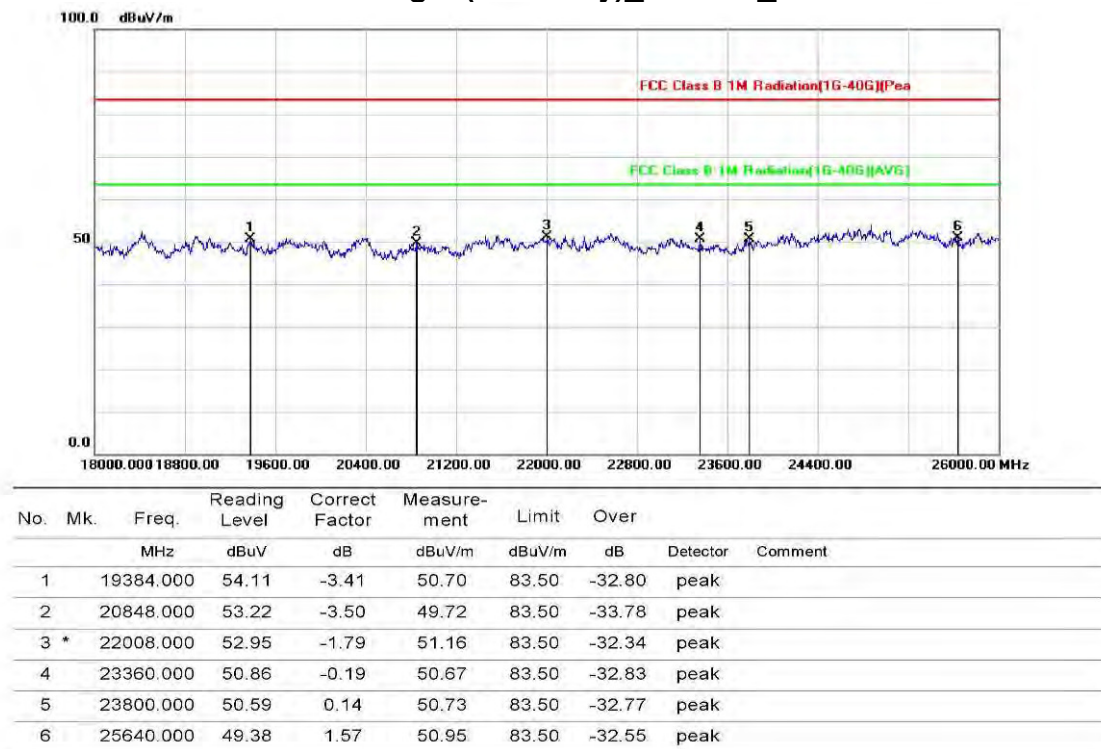
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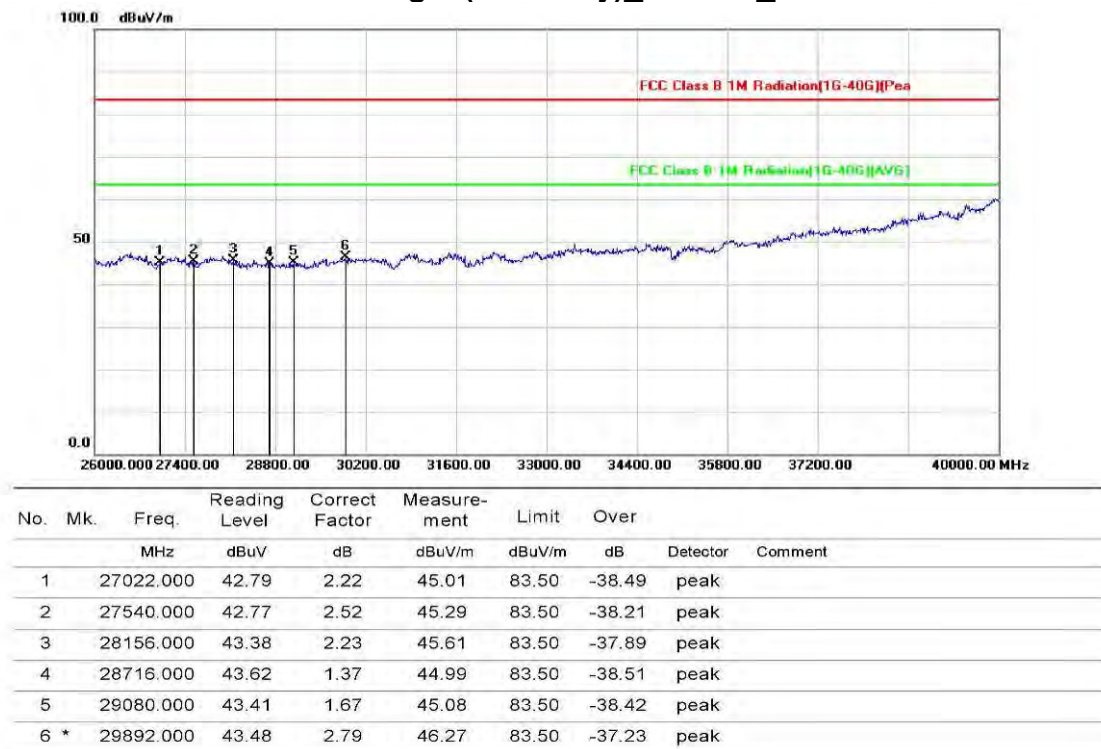
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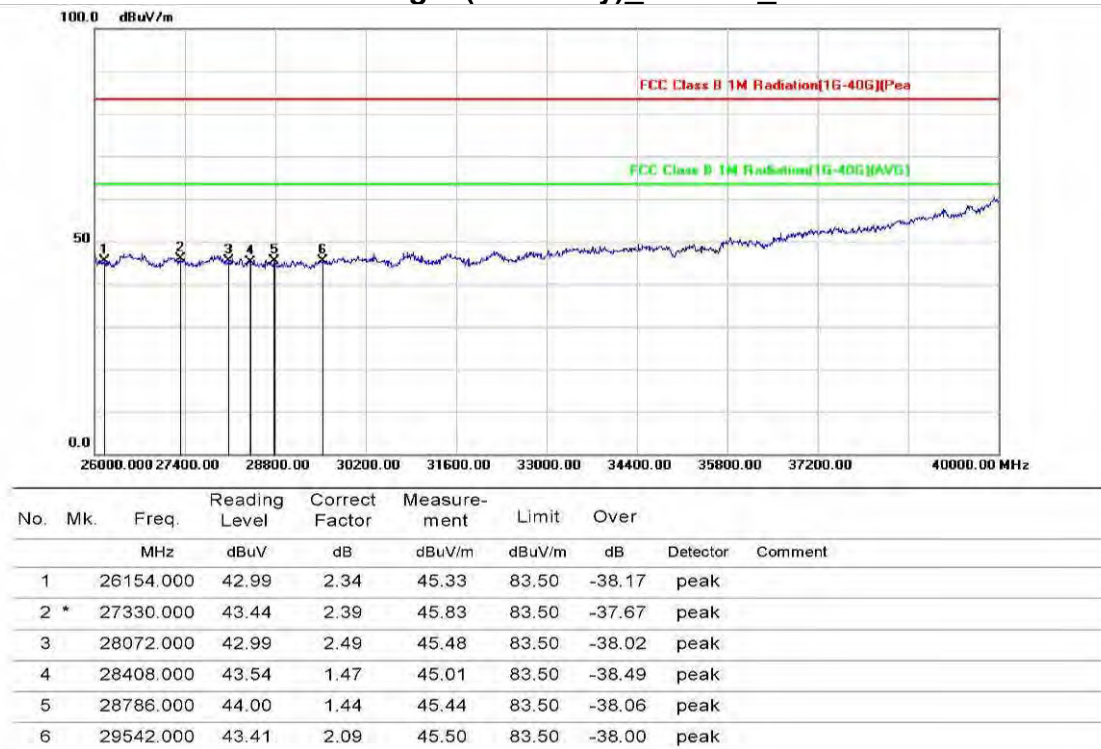
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