



CFR 47 FCC PART 15 SUBPART E

TEST REPORT

For

DJI Goggles SE

MODEL NUMBER: RCDS13

REPORT NUMBER: 4790544262-RF-2

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Prepared for

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	November 11, 2022	Initial Issue	



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	Summary of Test Results							
Clause	Test Items	FCC Rules	Test Results					
1	6dB/26dB Bandwidth	FCC 15.407 (a)&(e)	PASS					
2	Output Power	FCC 15.407 (a)	PASS					
3	Power Spectral Density	FCC 15.407 (a)	PASS					
4	Radiated Bandedge and Spurious Emission	FCC 15.407 (b) FCC 15.209 FCC 15.205	PASS					
5	Conducted Emission Test for AC Power Port	FCC 15.207	PASS					
6	Frequency Stability	FCC 15.407 (g)	PASS					
7	Antenna Requirement	FCC 15.203	PASS					

Note:

^{1.} This test report is only published to and used by the applicant, and it is not for evidence purpose in China.

^{2.} The measurement result for the sample received is <Pass> according to < CFR 47 FCC PART 15 SUBPART E > when <Accuracy Method> decision rule is applied.

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: SZ DJI TECHNOLOGY CO., LTD

Address: 14th floor, West Wing, Skyworth Semiconductor Design Building

NO.18 Gaoxin South 4th Ave, Nanshan District, Shenzhen,

Guangdong 518057 China

Manufacturer Information

Company Name: SZ DJI TECHNOLOGY CO., LTD

Address: 14th floor, West Wing, Skyworth Semiconductor Design Building

NO.18 Gaoxin South 4th Ave, Nanshan District, Shenzhen,

Guangdong 518057 China

EUT Information

EUT Name: DJI Goggles SE

Model: RCDS13

Sample Received Date: October 10, 2022

Sample ID: 5426235

Date of Tested: October 10, 2022 to November 24, 2022

APPLICABLE STANDARDS				
STANDARD TEST RESULTS				
CFR 47 FCC PART 15 SUBPART E	PASS			

Prepared By: Checked By:

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Senior Project Engineer Senior Project Engineer

Approved By:

Stephen Guo

Operations Manager



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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10-2013, CFR 47 FCC Part 2, CFR 47 FCC Part 15, KDB 789033 D02 v02r01, KDB414788 D01 Radiated Test Site v01, KDB 662911 D01 Multiple Transmitter Output v02r01.

3. FACILITIES AND ACCREDITATION

	A2LA (Certificate No.: 4102.01)
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
	has been assessed and proved to be in compliance with A2LA.
	FCC (FCC Designation No.: CN1187)
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
	Has been recognized to perform compliance testing on equipment subject
	to the Commission's Declaration of Conformity (DoC) and Certification
	rules
	ISED (Company No.: 21320)
Accreditation	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
Certificate	has been registered and fully described in a report filed with ISED.
	The Company Number is 21320 and the test lab Conformity Assessment
	Body Identifier (CABID) is CN0046.
	VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011)
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
	has been assessed and proved to be in compliance with VCCI, the
	Membership No. is 3793.
	Facility Name:
	Chamber D, the VCCI registration No. is G-20019 and R-20004
	Shielding Room B, the VCCI registration No. is C-20012 and T-20011

Note 1:

All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, No. 1, Li Bin Road, Song Shan Lake Hi-Tech Development Zone Dongguan, 523808, People's Republic of China.

Note 2:

The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

Note 3:

For below 30 MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30 MHz had been correlated to measurements performed on an OFS.



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4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Uncertainty		
Conduction emission	3.62 dB		
Radiated Emission (Included Fundamental Emission) (9 kHz ~ 30 MHz)	2.2 dB		
Radiated Emission (Included Fundamental Emission) (30 MHz ~ 1 GHz)	4.00 dB		
Radiated Emission	5.78 dB (1 GHz ~ 18 GHz)		
(Included Fundamental Emission) (1 GHz to 26 GHz)	5.23 dB (18 GHz ~ 26 GHz)		

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name	DJI Goggles SE
Model	RCDS13
Radio Technology	SRD 5.8G
Operation Frequency	5.8G 1.4 MHz Bandwidth (5728.5 MHz ~ 5846.5 MHz) 5.8G 1.4 MHz Bandwidth (CA Mode) (5730.12 MHz ~ 5848.12 MHz) 5.8G 3 MHz Bandwidth (5727.5 MHz ~ 5844.5 MHz) 5.8G 3 MHz Bandwidth (CA Mode) (5730.2 MHz ~ 5847.2 MHz) 5.8G 10 MHz Bandwidth (5730.5 MHz ~ 5844.5 MHz) 5.8G 20 MHz Bandwidth (5735.5 MHz ~ 5839.5 MHz) 5.8G 40 MHz Bandwidth (5745.5 MHz ~ 5829.5 MHz)
Modulation	OFDM (QPSK, 16QAM, 64QAM)
Supply Voltage	DC 7.2 V by Battery

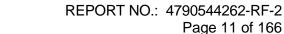
5.2. CHANNEL LIST

5.8G 1.4 MHz Bandwidth (5728.5 MHz ~ 5846.5 MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	5728.5	17	5760.5	33	5792.5	49	5824.5
2	5730.5	18	5762.5	34	5794.5	50	5826.5
3	5732.5	19	5764.5	35	5796.5	51	5828.5
4	5734.5	20	5766.5	36	5798.5	52	5830.5
5	5736.5	21	5768.5	37	5800.5	53	5832.5
6	5738.5	22	5770.5	38	5802.5	54	5834.5
7	5740.5	23	5772.5	39	5804.5	55	5836.5
8	5742.5	24	5774.5	40	5806.5	56	5838.5
9	5744.5	25	5776.5	41	5808.5	57	5840.5
10	5746.5	26	5778.5	42	5810.5	58	5842.5
11	5748.5	27	5780.5	43	5812.5	59	5844.5
12	5750.5	28	5782.5	44	5814.5	60	5846.5
13	5752.5	29	5784.5	45	5816.5	1	/
14	5754.5	30	5786.5	46	5818.5	/	/
15	5756.5	31	5788.5	47	5820.5	1	/
16	5758.5	32	5790.5	48	5822.5	1	/



5.8G 1.4 MHz Bandwidth CA Mode (5730.12 MHz ~ 5848.12 MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	5730.12	17	5762.12	33	5794.12	49	5826.12
2	5732.12	18	5764.12	34	5796.12	50	5828.12
3	5734.12	19	5766.12	35	5798.12	51	5830.12
4	5736.12	20	5768.12	36	5800.12	52	5832.12
5	5738.12	21	5770.12	37	5802.12	53	5834.12
6	5740.12	22	5772.12	38	5804.12	54	5836.12
7	5742.12	23	5774.12	39	5806.12	55	5838.12
8	5744.12	24	5776.12	40	5808.12	56	5840.12
9	5746.12	25	5778.12	41	5810.12	57	5842.12
10	5748.12	26	5780.12	42	5812.12	58	5844.12
11	5750.12	27	5782.12	43	5814.12	59	5846.12
12	5752.12	28	5784.12	44	5816.12	60	5848.12
13	5754.12	29	5786.12	45	5818.12	1	/
14	5756.12	30	5788.12	46	5820.12	/	/
15	5758.12	31	5790.12	47	5822.12	/	/
16	5760.12	32	5792.12	48	5824.12	/	/

5.8G 3 MHz Bandwidth Mode (5727.5 MHz ~ 5844.5 MHz)								
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	
1	5727.5	11	5757.5	21	5787.5	31	5817.5	
2	5730.5	12	5760.5	22	5790.5	32	5820.5	
3	5733.5	13	5763.5	23	5793.5	33	5823.5	
4	5736.5	14	5766.5	24	5796.5	34	5826.5	
5	5739.5	15	5769.5	25	5799.5	35	5829.5	
6	5742.5	16	5772.5	26	5802.5	36	5832.5	
7	5745.5	17	5775.5	27	5805.5	37	5835.5	
8	5748.5	18	5778.5	28	5808.5	38	5838.5	
9	5751.5	19	5781.5	29	5811.5	39	5841.5	
10	5754.5	20	5784.5	30	5814.5	40	5844.5	





5.8G 3 MHz Bandwidth CA Mode (5730.2 MHz ~ 5847.2 MHz) Frequency Frequency Frequency Frequency Channel Channel Channel Channel (MHz) (MHz) (MHz) (MHz) 5820.2 1 5730.2 11 5760.2 21 5790.2 31 2 12 22 5823.2 5733.2 5763.2 5793.2 32 3 5736.2 13 5766.2 23 5796.2 33 5826.2 5829.2 4 5739.2 14 5769.2 24 5799.2 34 5802.2 5832.2 5 5742.2 15 5772.2 25 35 6 5745.2 5775.2 5805.2 5835.2 16 26 36 7 5748.2 17 5778.2 27 5808.2 37 5838.2 8 5751.2 18 5781.2 28 5811.2 38 5841.2 9 5754.2 19 5784.2 29 5814.2 39 5844.2 10 20 40 5757.2 5787.2 30 5817.2 5847.2



5.8G 10 MHz Bandwidth (5730.5 MHz ~ 5844.5 MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	5730.5	30	5759.5	59	5788.5	88	5817.5
2	5731.5	31	5760.5	60	5789.5	89	5818.5
3	5732.5	32	5761.5	61	5790.5	90	5819.5
4	5733.5	33	5762.5	62	5791.5	91	5820.5
5	5734.5	34	5763.5	63	5792.5	92	5821.5
6	5735.5	35	5764.5	64	5793.5	93	5822.5
7	5736.5	36	5765.5	65	5794.5	94	5823.5
8	5737.5	37	5766.5	66	5795.5	95	5824.5
9	5738.5	38	5767.5	67	5796.5	96	5825.5
10	5739.5	39	5768.5	68	5797.5	97	5826.5
11	5740.5	40	5769.5	69	5798.5	98	5827.5
12	5741.5	41	5770.5	70	5799.5	99	5828.5
13	5742.5	42	5771.5	71	5800.5	100	5829.5
14	5743.5	43	5772.5	72	5801.5	101	5830.5
15	5744.5	44	5773.5	73	5802.5	102	5831.5
16	5745.5	45	5774.5	74	5803.5	103	5832.5
17	5746.5	46	5775.5	75	5804.5	104	5833.5
18	5747.5	47	5776.5	76	5805.5	105	5834.5
19	5748.5	48	5777.5	77	5806.5	106	5835.5
20	5749.5	49	5778.5	78	5807.5	107	5836.5
21	5750.5	50	5779.5	79	5808.5	108	5837.5
22	5751.5	51	5780.5	80	5809.5	109	5838.5
23	5752.5	52	5781.5	81	5810.5	110	5839.5
24	5753.5	53	5782.5	82	5811.5	111	5840.5
25	5754.5	54	5783.5	83	5812.5	112	5841.5
26	5755.5	55	5784.5	84	5813.5	113	5842.5
27	5756.5	56	5785.5	85	5814.5	114	5843.5
28	5757.5	57	5786.5	86	5815.5	115	5844.5
29	5758.5	58	5787.5	87	5816.5	/	/



5.8G 20 MHz Bandwidth (5735.5 MHz ~ 5839.5 MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	5735.5	28	5762.5	55	5789.5	82	5816.5
2	5736.5	29	5763.5	56	5790.5	83	5817.5
3	5737.5	30	5764.5	57	5791.5	84	5818.5
4	5738.5	31	5765.5	58	5792.5	85	5819.5
5	5739.5	32	5766.5	59	5793.5	86	5820.5
6	5740.5	33	5767.5	60	5794.5	87	5821.5
7	5741.5	34	5768.5	61	5795.5	88	5822.5
8	5742.5	35	5769.5	62	5796.5	89	5823.5
9	5743.5	36	5770.5	63	5797.5	90	5824.5
10	5744.5	37	5771.5	64	5798.5	91	5825.5
11	5745.5	38	5772.5	65	5799.5	92	5826.5
12	5746.5	39	5773.5	66	5800.5	93	5827.5
13	5747.5	40	5774.5	67	5801.5	94	5828.5
14	5748.5	41	5775.5	68	5802.5	95	5829.5
15	5749.5	42	5776.5	69	5803.5	96	5830.5
16	5750.5	43	5777.5	70	5804.5	97	5831.5
17	5751.5	44	5778.5	71	5805.5	98	5832.5
18	5752.5	45	5779.5	72	5806.5	99	5833.5
19	5753.5	46	5780.5	73	5807.5	100	5834.5
20	5754.5	47	5781.5	74	5808.5	101	5835.5
21	5755.5	48	5782.5	75	5809.5	102	5836.5
22	5756.5	49	5783.5	76	5810.5	103	5837.5
23	5757.5	50	5784.5	77	5811.5	104	5838.5
24	5758.5	51	5785.5	78	5812.5	105	5839.5
25	5759.5	52	5786.5	79	5813.5	/	/
26	5760.5	53	5787.5	80	5814.5	/	1
27	5761.5	54	5788.5	81	5815.5	/	/



	5.8G 40 MHz Bandwidth (5745.5 MHz ~ 5829.5 MHz)						
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	5745.5	23	5767.5	45	5789.5	67	5811.5
2	5746.5	24	5768.5	46	5790.5	68	5812.5
3	5747.5	25	5769.5	47	5791.5	69	5813.5
4	5748.5	26	5770.5	48	5792.5	70	5814.5
5	5749.5	27	5771.5	49	5793.5	71	5815.5
6	5750.5	28	5772.5	50	5794.5	72	5816.5
7	5751.5	29	5773.5	51	5795.5	73	5817.5
8	5752.5	30	5774.5	52	5796.5	74	5818.5
9	5753.5	31	5775.5	53	5797.5	75	5819.5
10	5754.5	32	5776.5	54	5798.5	76	5820.5
11	5755.5	33	5777.5	55	5799.5	77	5821.5
12	5756.5	34	5778.5	56	5800.5	78	5822.5
13	5757.5	35	5779.5	57	5801.5	79	5823.5
14	5758.5	36	5780.5	58	5802.5	80	5824.5
15	5759.5	37	5781.5	59	5803.5	81	5825.5
16	5760.5	38	5782.5	60	5804.5	82	5826.5
17	5761.5	39	5783.5	61	5805.5	83	5827.5
18	5762.5	40	5784.5	62	5806.5	84	5828.5
19	5763.5	41	5785.5	63	5807.5	85	5829.5
20	5764.5	42	5786.5	64	5808.5	/	/
21	5765.5	43	5787.5	65	5809.5	/	/
22	5766.5	44	5788.5	66	5810.5	/	/

5.3. MAXIMUM OUTPUT POWER

SRD 5G	Frequency (MHz)	Maximum Conducted Average Output Power (dBm)
1.4 MHz Mode	5728.5 MHz ~ 5846.5 MHz	26.04
1.4 MHz CA Mode	5730.12 MHz ~ 5848.12 MHz	26.00
3 MHz Mode	5727.5 MHz ~ 5844.5 MHz	26.08
3 MHz CA Mode	5730.2 MHz ~ 5847.2 MHz	25.67
10 MHz Mode	5730.5 MHz ~ 5844.5 MHz	16.04
20 MHz Mode	5735.5 MHz ~ 5839.5 MHz	15.94
40 MHz Mode	5745.5 MHz ~ 5829.5 MHz	15.94



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5.4. TEST CHANNEL CONFIGURATION

SRD 5.8G	Test Channel Number	Frequency
1.4 MHz Mode	CH 1(Low Channel), CH 30(MID Channel), CH 60(High Channel)	5728.5 MHz, 5786.5 MHz, 5846.5 MHz
1.4 MHz CA Mode	CH 1(Low Channel), CH 30(MID Channel), CH 60(High Channel)	5730.12 MHz, 5788.12 MHz, 5848.12 MHz
3 MHz Mode	CH 1(Low Channel), CH 20(MID Channel), CH 40(High Channel)	5727.5 MHz, 5784.5 MHz, 5844.5 MHz
3 MHz CA Mode	CH 1(Low Channel), CH 20(MID Channel), CH 40(High Channel)	5730.2 MHz, 5787.2 MHz, 5847.2 MHz
10 MHz Mode	CH 1(Low Channel), CH 58(MID Channel), CH 115(High Channel)	5730.5 MHz, 5787.5 MHz, 5844.5 MHz
20 MHz Mode	CH 1(Low Channel), CH 53(MID Channel), CH 105(High Channel)	5735.5 MHz, 5787.5 MHz, 5839.5 MHz
40 MHz Mode	CH 1(Low Channel), CH 43(MID Channel), CH 85(High Channel)	5745.5 MHz, 5787.5 MHz, 5829.5 MHz

5.5. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter under 5728.5 ~ 5848.12 MHz Band					
Test Software		DjiSdrConsole			
84 1 1 4:	Transmit Antenna Number	Test Software setting value			
Modulation Mode		NCB: 1.4 MHz/1.4 MHz CA	0 MHz/20 MHz/40 MHz		
Wode		Low Channel	MID Channel	High Channel	
All	All	Default	Default	Default	



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5.6. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna	Frequency (MHz)	Antenna Type	Maximum Antenna Gain (dBi)
0	5728.5 ~ 5848.12	Dipole	3.00
1	5728.5 ~ 5848.12	Dipole	3.00

MIMO output power port and MIMO PSD port summing were performed in accordance with KDB 662911 D01. For the STBC mode results the Directional Gain was calculated in accordance with the following mothed.

For output power measurements:

Directional gain= Gant + Array Gain = 3.00 dBi

GANT: equal to the gain of the antenna having the highest gain

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \le 4$

For power spectral density (PSD) measurements:

Directional gain= Gant + Array Gain = 3.00 dBi

G_{ANT}: equal to the gain of the antenna having the highest gain

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \le 4$

Test Mode Transmit and Receive Mode		Description			
1.4 MHz Mode	⊠ 2TX, 4RX	ANT 0,1 can be used as transmitting antenna. ANT 0,1, 2, 3 can be used as receiving antenna.			
1.4 MHz CA Mode	⊠ 2TX, 4RX	ANT 0,1 can be used as transmitting antenna. ANT 0,1, 2, 3 can be used as receiving antenna.			
3 MHz Mode	⊠ 2TX, 4RX	ANT 0,1 can be used as transmitting antenna. ANT 0,1, 2, 3 can be used as receiving antenna.			
3 MHz CA Mode	⊠ 2TX, 4RX	ANT 0,1 can be used as transmitting antenna. ANT 0,1, 2, 3 can be used as receiving antenna.			
10 MHz Mode	⊠ 2TX, 4RX	ANT 0,1 can be used as transmitting antenna. ANT 0,1, 2, 3 can be used as receiving antenna.			
20 MHz Mode	⊠ 2TX, 4RX	ANT 0,1 can be used as transmitting antenna. ANT 0,1, 2, 3 can be used as receiving antenna.			
40 MHz Mode	⊠ 2TX, 4RX	ANT 0,1 can be used as transmitting antenna. ANT 0,1, 2, 3 can be used as receiving antenna.			

Note: 1. The value of the antenna gain was declared by customer.

2. SRD 2.4G and SRD 5.8G can't transmit simultaneously.



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5.7. THE WORSE CASE CONFIGURATIONS

The EUT was tested in the following configuration(s):

Controlled in test mode using a software application on the EUT supplied by customer. The application was used to enable a continuous transmission and to select the mode, test channels, bandwidth, data rates as required.

Test channels referring to section 5.2.

Maximum power setting referring to section 5.5.

Worst case Data Rates declared by the customer:

SRD 5.8G-1.4 MHz Mode/QPSK SRD 5.8G-1.4 MHz CA Mode/QPSK SRD 5.8G-3 MHz Mode/QPSK SRD 5.8G-3 MHz CA Mode/QPSK SRD 5.8G-10 MHz Mode/QPSK SRD 5.8G-20 MHz Mode/QPSK SRD 5.8G-40 MHz Mode/QPSK

The EUT has 4 separate antennas which correspond to 4 separate antenna ports, core ANT 0, core ANT 1, core ANT 2, core ANT 3 correspond to antenna 0, antenna 1, antenna 2, antenna 3 respectively, the EUT only support 2TX4RX mode, antenna 0 and antenna 1 used as transmit antennas and all the 4 antennas can use as receive antennas.

The EUT support SISO and MIMO mode, and both the two modes use the same power setting, so MIMO mode shall be the worst case and all tests were performed with MIMO mode.

Radiated emissions tests were performed with the MIMO modes. These were found to be the worst modulation scheme with regards to emissions after preliminary investigations and, as this mode emits the highest conducted output power level, it was deemed to be the worst case.



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5.8. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	Remarks
1	Laptop	Lenovo	E42-80	/

I/O CABLES

Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
1	USB	Type C	Unshielded	1.0	/

ACCESSORIES

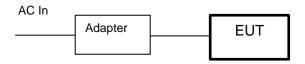
Item	Accessory	Brand Name	Model Name	Description
1	Adapter	1	PD-30CN	Input: AC 100 ~ 240 V, 50/60 Hz Output: DC 5 V, 3 A

TEST SETUP

The EUT can work in engineering mode with a software through a laptop.

SETUP DIAGRAM FOR TESTS

For Conducted Emission Test for AC Power Port Test:



For other tests:





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6. MEASURING EQUIPMENT AND SOFTWARE USED

Last time calibration information:

R&S TS 8997 Test System							
Equipment	Manufacturer	Model No.	Serial No.	Last C	Cal.	Due. Date	
Power sensor, Power Meter	R&S	OSP120	100921	Mar.2, 2	2022	Mar.1, 2023	
Vector Signal Generator	R&S	SMBV100A	261637	Oct.30, 2021		Oct.29, 2022	
Signal Generator	R&S	SMB100A	178553	Oct.30, 2021		Oct.29, 2022	
Signal Analyzer	R&S	FSV40	101118	Oct.30, 2021		Oct.29, 2022	
Software							
Description Manu		facturer	Nam	ne		Version	
For R&S TS 8997 Test Syste	em Rohde &	Schwarz	EMC	32		10.60.10	

Tonsend RF Test System								
Equipment	Manufacturer	ufacturer Model N		Serial No.	Last Cal.		Due. Date	
PXA Signal Analyzer	Keysight	ht N9030A		MY55410512	Oct.30, 2021		Oct.29, 2022	
MXG Vector Signal Generator	Keysight	eysight N5182		MY56200284	Oct.30, 2021		Oct.29, 2022	
MXG Vector Signal Generator	Keysight	eysight N5172B		MY56200301	Oct.30, 2021		Oct.29, 2022	
Software								
Description Manu		turer Name		Name			Version	
Tonsend SRD Test System Tonse		nd JS1120-3 RF Test Syste		ystem	2	.6.77.0518		

Other Instruments						
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.	
Dual Channel Power Meter	Keysight	N1912A	MY55416024	Oct.30, 2021	Oct.29, 2022	
Power Sensor	Keysight	USB Wideband Power Sensor	MY5100022	Oct.30, 2021	Oct.29, 2022	
Atttenuator	Agilent	8495B	2814a12853	Oct.30, 2021	Oct.29, 2022	



Conducted Emissions						
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date	
EMI Test Receiver	R&S	ESR3	101961	Oct.30, 2021	Oct.29, 2022	
Two-Line V- Network	R&S	ENV216	101983	Oct.30, 2021	Oct.29, 2022	
	Software					
Description			Manufacturer	Name	Version	
Test Software for Conducted Emissions			Farad	EZ-EMC	Ver. UL-3A1	

Radiated Emissions					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
MXE EMI Receiver	KESIGHT	N9038A	MY56400036	Oct.30, 2021	Oct.29, 2022
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130959	Aug.02, 2021	Aug.01, 2024
Preamplifier	HP	8447D	2944A09099	Oct.30, 2021	Oct.29, 2022
EMI Measurement Receiver	R&S	ESR26	101377	Oct.30, 2021	Oct.29, 2022
Horn Antenna	TDK	HRN-0118	130940	July 20, 2021	July 19, 2024
Preamplifier	TDK	PA-02-0118	TRS-305- 00067	Oct.30, 2021	Oct.29, 2022
Horn Antenna	Schwarzbeck	BBHA9170	697	July 20, 2021	July 19, 2024
Preamplifier	TDK	PA-02-2	TRS-307- 00003	Oct.31, 2021	Oct.30, 2022
Preamplifier	TDK	PA-02-3	TRS-308- 00002	Oct.31, 2021	Oct.30, 2022
Loop antenna	Schwarzbeck	1519B	80000	Dec.14, 2021	Dec.13, 2024
Preamplifier	TDK	PA-02-001- 3000	TRS-302- 00050	Oct.31, 2021	Oct.30, 2022
Highpass Filter	Wainwright	WHKX10- 5850-6500- 1800-40SS	4	Oct.31, 2021	Oct.30, 2022
Band Reject Filter	Wainwright	WRCJV12- 5695-5725- 5850-5880- 40SS	4	Oct.31, 2021	Oct.30, 2022
Software					
[Description		Manufacturer	Name	Version
Test Software	for Radiated E	missions	Farad	EZ-EMC	Ver. UL-3A1



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This time calibration information:										
			R&S	TS	8997 Te	st S	ystem			
Equipment		Manufacturer		Model I	No.	Serial No.	Last C	al.	Due. Date	
Power sensor, Power M	1eter		R&S		OSP1	20	100921	Apr.02, 2	2022	Apr.01, 2023
Vector Signal Genera	tor		R&S		SMBV1	00A	261637	Oct.17, 2	2022	Oct.16, 2023
Signal Generator			R&S		SMB10	00A	178553	Oct.17, 2	2022	Oct.16, 2023
Signal Analyzer			R&S		FSV4	0	101118	Oct.17, 2	2022	Oct.16, 2023
	Software									
Description			M	Manufacturer		Nam	ne		Version	
For R&S TS 8997 Test Syste			n Rohde & Schwar		Z	EMC	EMC 32		10.60.10	
			Ton	send	d RF Tes	st Sy	/stem			
Equipment	Man	ufact	urer	Mod	del No.	S	Serial No.	Last C	Cal.	Due. Date
PXA Signal Analyzer	Ke	eysigl	ht	N9	030A	MY	′55410512	Oct.17,	2022	Oct.16, 2023
MXG Vector Signal Generator	Ke	eysigl	ht	N5	182B	MY	′56200284	Oct.17,	2022	Oct.16, 2023
MXG Vector Signal Generator	Ke	eysigh	ht	N5	172B	MY	′56200301	Oct.17,	2022	Oct.16, 2023
Temperature & Humidity Chamber	SAN	SANMOOD SG-		SG-8	30-CC-2		2088	Oct.17,	2022	Oct.16, 2023
Software										
Description		Manu	ufactu	urer	Name			Version		
Tonsend SRD Test Sys	tem	То	nsen	d	JS11	120-3	3 RF Test S	ystem	2	.6.77.0518

Other Instrument						
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date	
Dual Channel Power Meter	Keysight	N1912A	MY55416024	Oct.17, 2022	Oct.16, 2023	
Power Sensor	Keysight	USB Wideband Power Sensor	MY5100022	Oct.17, 2022	Oct.16, 2023	
Atttenuator	Agilent	8495B	2814a12853	Oct.17, 2022	Oct.16, 2023	



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Conducted Emissions						
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date	
EMI Test Receiver	R&S	ESR3	101961	Oct.17, 2022	Oct.16, 2023	
Two-Line V- Network	R&S	ENV216	101983	Oct.17, 2022	Oct.16, 2023	
Artificial Mains Networks	Schwarzbeck	NSLK 8126	8126465	Oct.17, 2022	Oct.16, 2023	
	Software					
Description			Manufacturer	Name	Version	
Test Software	for Conducted	Emissions	Farad	EZ-EMC	Ver. UL-3A1	

Radiated Emissions						
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date	
MXE EMI Receiver	KESIGHT	N9038A	MY56400036	Oct.17, 2022	Oct.16, 2023	
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130959	Aug.02, 2021	Aug.01, 2024	
Preamplifier	HP	8447D	2944A09099	Oct.17, 2022	Oct.16, 2023	
EMI Measurement Receiver	R&S	ESR26	101377	Oct.17, 2022	Oct.16, 2023	
Horn Antenna	TDK	HRN-0118	130940	July 20, 2021	July 19, 2024	
Preamplifier	TDK	PA-02-0118	TRS-305- 00067	Oct.17, 2022	Oct.16, 2023	
Horn Antenna	Schwarzbeck	BBHA9170	697	July 20, 2021	July 19, 2024	
Preamplifier	TDK	PA-02-2	TRS-307- 00003	Oct.17, 2022	Oct.16, 2023	
Preamplifier	TDK	PA-02-3	TRS-308- 00002	Oct.17, 2022	Oct.16, 2023	
Loop antenna	Schwarzbeck	1519B	80000	Dec.14, 2021	Dec.13, 2024	
Preamplifier	TDK	PA-02-001- 3000	TRS-302- 00050	Oct.17, 2022	Oct.16, 2023	
Highpass Filter	Wainwright	WHKX10- 5850-6500- 1800-40SS	4	Oct.17, 2022	Oct.16, 2023	
Band Reject Filter	Wainwright	WRCJV12- 5695-5725- 5850-5880- 40SS	4	Oct.17, 2022	Oct.16, 2023	
Software						
[Description		Manufacturer	Name	Version	
Test Software	for Radiated E	missions	Farad	EZ-EMC	Ver. UL-3A1	



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7. ANTENNA PORT TEST RESULTS

7.1. ON TIME AND DUTY CYCLE

LIMITS

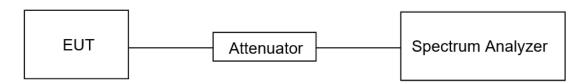
None; for reporting purposes only.

TEST PROCEDURE

Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.B.

The zero-span mode on a spectrum analyzer or EMI receiver, if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal. Set the center frequency of the instrument to the center frequency of the transmission. Set RBW ≥ EBW if possible; otherwise, set RBW to the largest available value. Set VBW ≥ RBW. Set detector = peak or average. The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T, where T is defined in II.B.1.a), and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if T ≤ 16.7 microseconds.)

TEST SETUP



TEST ENVIRONMENT

Temperature	25.1 °C	Relative Humidity	53 %
Atmosphere Pressure	101 kPa	Test Voltage	DC 7.2 V

TEST RESULTS

Please refer to section "Test Data" - Appendix D



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7.2. 6DB AND 26DB EMISSION BANDWIDTH AND 99% OCCUPIED BANDWIDTH

LIMITS

CFR 47 FCC Part15, Subpart E				
Test Item	Limit	Frequency Range (MHz)		
26 dB Emission Bandwidth	For reporting purposes only.	5150 ~ 5250		
6 dB Emission Bandwidth	The minimum 6 dB emission bandwidth shall be 500 kHz.	5725 ~ 5850		

TEST PROCEDURE

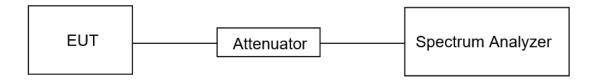
Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.C1. for 26 dB Emission Bandwidth; section II.C2. for 6 dB Emission Bandwidth; section II.D. for 99 % Occupied Bandwidth.

Connect the EUT to the spectrum analyzer and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	For 6 dB Emission Bandwidth: RBW=100 kHz For 26 dB Emission bandwidth: approximately 1 % of the EBW. For 99 % Occupied Bandwidth: approximately 1 % ~ 5 % of the OBW.
VBW	For 6 dB Bandwidth: ≥ 3*RBW For 26 dB Bandwidth: >3*RBW For 99 % Bandwidth: >3*RBW
Trace	Max hold
Sweep	Auto couple

- a) Use the 99 % power bandwidth function of the instrument, allow the trace to stabilize and report the measured bandwidth.
- b) Allow the trace to stabilize and measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6/26 dB relative to the maximum level measured in the fundamental emission.

TEST SETUP





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TEST ENVIRONMENT

Temperature	25.1 °C	Relative Humidity	53 %
Atmosphere Pressure	101 kPa	Test Voltage	DC 7.2 V

TEST RESULTS

Please refer to section "Test Data" - Appendix A1 & A2



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7.3. OUTPUT POWER

LIMITS

	CFR 47 FCC Part15, Subpart E	
Test Item	Limit	Frequency Range (MHz)
Conducted Output Power	Outdoor Access Point: 1 W (30 dBm) Indoor Access Point: 1 W (30 dBm) Fixed Point-To-Point Access Points: 1 W (30 dBm) Client Devices: 250 mW (24 dBm)	5150 ~ 5250
	Shall not exceed 1 Watt (30 dBm).	5725 ~ 5850

Note

The above limits are based upon the maximum antenna gain does not exceed 6 dBi.

If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

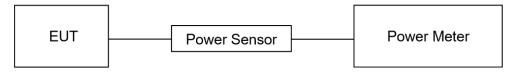
TEST PROCEDURE

Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.E.

Method PM (Measurement using an RF average power meter):

- (i) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the following conditions are satisfied:
- a. The EUT is configured to transmit continuously or to transmit with a constant duty cycle.
- b. At all times when the EUT is transmitting, it must be transmitting at its maximum power control level.
- c. The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
- (ii) If the transmitter does not transmit continuously, measure the duty cycle, x, of the transmitter output signal as described in II.B.
- (iii) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
- (iv) Adjust the measurement in dBm by adding 10 log (1/x) where x is the duty cycle (e.g., 10 log (1/0.25) if the duty cycle is 25 %).

TEST SETUP



TEST ENVIRONMENT

Temperature	25.1 °C	Relative Humidity	53 %
Atmosphere Pressure	101 kPa	Test Voltage	DC 7.2 V



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TEST RESULTS

Please refer to section "Test Data" - Appendix B



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7.4. POWER SPECTRAL DENSITY

LIMITS

CFR 47 FCC Part15, Subpart E		
Test Item	Limit	Frequency Range (MHz)
Power Spectral Density	Outdoor Access Point: 17 dBm/MHz Indoor Access Point: 17 dBm/MHz Fixed Point-To-Point Access Points: 17 dBm/MHz Client Devices: 11 dBm/MHz	5150 ~ 5250
	30 dBm/500kHz	5725 ~ 5850

Note:

The above limits are based upon the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

TEST PROCEDURE

Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.F.

Connect the EUT to the spectrum analyzer and use the following settings:

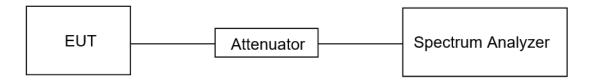
For U-NII-3:

Center Frequency	The center frequency of the channel under test
Detector	RMS
RBW	500 kHz
VBW	≥3 × RBW
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

Allow trace to fully stabilize and Use the peak search function on the instrument to find the peak of the spectrum and record its value.

Add 10 log (1/x), where x is the duty cycle, to the peak of the spectrum, the result is the Maximum PSD over 1 MHz / 500 kHz reference bandwidth.

TEST SETUP





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TEST ENVIRONMENT

Temperature	25.1 °C	Relative Humidity	53 %
Atmosphere Pressure	101 kPa	Test Voltage	DC 7.2 V

TEST RESULTS

Please refer to section "Test Data" - Appendix C



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7.5. FREQUENCY STABILITY

LIMITS

The frequency of the carrier signal shall be maintained within band of operation.

TEST PROCEDURE

- 1. The EUT was placed inside an environmental chamber as the temperature in the chamber was varied between 0 $^{\circ}$ C \sim 40 $^{\circ}$ C (declared by customer).
- 2. The temperature was incremented by 10 °C intervals and the unit allowed to stabilize at each temperature before each measurement. The center frequency of the transmitting channel was evaluated at each temperature and the frequency deviation from the channel's center frequency was recorded.
- 3. The primary supply voltage is varied from 85 % to 115 % of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

Connect the EUT to the spectrum analyzer and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	10 kHz
VBW	≥3 × RBW
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

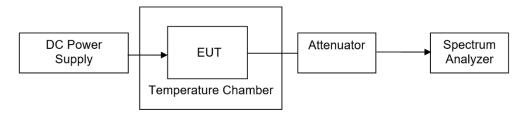
- 4. While maintaining a constant temperature inside the environmental chamber, turn the EUT on and record the operating frequency at startup, and at 2 minutes, 5minutes, and 10 minutes after the EUT is energized.
- 5. Allow the trace to stabilize, find the peak value of the power envelope and record the frequency, then calculated the frequency drift.

TEST ENVIRONMENT

	Normal Test Conditions	Extreme Test Conditions	
Relative Humidity	20 % ~ 75 %	/	
Atmospheric Pressure	100 kPa ~102 kPa	/	
Temperature	T _N (Normal Temperature): 25.1 °C	T _L (Low Temperature): -10 °C	
		T _H (High Temperature): 40 °C	
Supply Voltage	V _N (Normal Voltage): DC 7.2 V	V _L (Low Voltage): DC 4.25 V	
Supply Voltage	V _N (Normal Voltage). DC 7.2 V	V _H (High Voltage): DC 5.75 V	



TEST SETUP



TEST ENVIRONMENT

Temperature	25.1 °C	Relative Humidity	53 %
Atmosphere Pressure	101 kPa	Test Voltage	DC 7.2 V

TEST RESULTS

Please refer to section "Test Data" - Appendix E



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8. RADIATED TEST RESULTS

LIMITS

Refer to CFR 47 FCC §15.205, §15.209 and §15.407 (b).

Radiation Disturbance Test Limit for FCC (Class B) (9 kHz ~ 1 GHz).

Emissions radiated outside of the specified frequency bands above 30 MHz			
Frequency Range	Field Strength Limit	Field Stren	gth Limit
(MHz)	(uV/m) at 3 m	(dBuV/m) at 3 m	
		Quasi-Peak	
30 - 88	100	40	
88 - 216	150	43.5	
216 - 960	200	46	
Above 960	500	54	
Above 1000	500	Peak	Average
Above 1000	500	74	54

FCC Emissions radiated outside of the specified frequency bands below 30 MHz		
Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30

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FCC Restricted bands of operation refer to FCC §15.205 (a):

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

Note: ¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz. ²Above 38.6c

Limits of unwanted/undesirable emission out of the restricted bands refer to CFR 47 FCC §15.407 (b).

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1GHz)			
Frequency Range	FIDD Limit	Field Strength Limit	
(MHz)	EIRP Limit	(dBuV/m) at 3 m	
5150~5250 MHz	PK: -27 (dBm/MHz)	PK:68.2(dBµV/m)	
	PK: -27 (dBm/MHz) *1	PK: 68.2(dBµV/m) *1	
5725~5850 MHz	PK: 10 (dBm/MHz) *2	PK: 105.2 (dBµV/m) *2	
	PK: 15.6 (dBm/MHz) *3	PK: 110.8(dBµV/m) *3	
	PK: 27 (dBm/MHz) *4	PK: 122.2 (dBµV/m) *4	

Note:

^{*1} beyond 75 MHz or more above of the band edge.

^{*2} below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.

^{*3} below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.

^{*4} from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.



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TEST PROCEDURE

Below 30 MHz

The setting of the spectrum analyzer

RBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
VBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
Sweep	Auto

- 1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.4.
- 2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 80 cm above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1 m height antenna tower.
- 5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz Radiated emission limits in these three bands are based on measurements employing an average detector.
- 6. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak and average detector mode remeasured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak and average detector and reported.
- 7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KDB 414788.
- 8. The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377Ω . For example, the measurement frequency X KHz resulted in a level of Y dBuV/m, which is equivalent to Y-51.5 = Z dBuA/m, which has the same margin, W dB, to the corresponding RSS-GEN Table 6 limit as it has to be 15.209(a) limit.



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Below 1 GHz and above 30 MHz

The setting of the spectrum analyzer

RBW	120 kHz
VBW	300 kHz
Sweep	Auto
Detector	Peak/QP
Trace	Max hold

- 1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.5.
- 2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 80 cm above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 5. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.



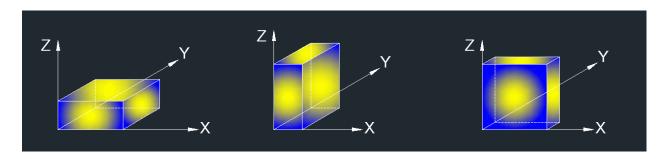
Above 1 GHz

The setting of the spectrum analyzer

RBW	1 MHz
1\/B\/\/	PEAK: 3 MHz AVG: see note 6
Sweep	Auto
Detector	Peak
Trace	Max hold

- 1. The testing follows the guidelines in KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.G.3 ~ II.G.6.
- 2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 1.5 m above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 5. For measurement above 1 GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.
- 6. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 7.1. ON TIME AND DUTY CYCLE.

X axis, Y axis, Z axis positions:



Note: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.



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For Restricted Bandedge:

Note:

- 1. Measurement = Reading Level + Correct Factor.
- 2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.
- 7. Both horizontal and vertical have been tested, only the worst data was recorded in the report.
- 8. All modes, channels and antennas have been tested, only the worst data was recorded in the report.

For Radiate Spurious emission (9 kHz ~ 30 MHz):

Note:

- 1. Measurement = Reading Level + Correct Factor.
- 2. If the peak values are less than the QP limit, the QP result is deemed to comply with QP limit.
- 3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.
- 4. All modes, channels and antennas have been tested, only the worst data was recorded in the report.

For Radiate Spurious Emission (30 MHz ~ 1 GHz):

Note:

- 1. Result Level = Read Level + Correct Factor.
- 2. If the peak values are less than the QP limit, the QP result is deemed to comply with QP limit.
- 3. All modes, channels and antennas have been tested, only the worst data was recorded in the report.

For Radiate Spurious Emission (1 GHz ~ 7 GHz):

- 1. Measurement = Reading Level + Correct Factor.
- 2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
- 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.
- 9. All modes, channels and antennas have been tested, only the worst data was recorded in the report.



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For Radiate Spurious Emission (7 GHz ~ 18 GHz):

Note:

- 1. Peak Result = Reading Level + Correct Factor.
- 2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
- 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.
- 9. All modes, channels and antennas have been tested, only the worst data was recorded in the report.

For Radiate Spurious emission (18 GHz ~ 26 GHz):

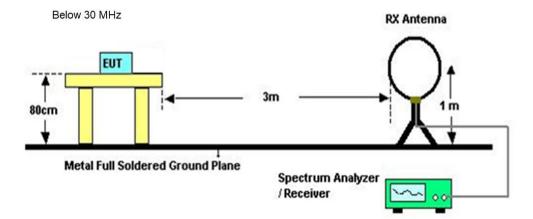
- 1. Measurement = Reading Level + Correct Factor.
- 2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
- 3. Peak: Peak detector.
- 4. All modes, channels and antennas have been tested, only the worst data was recorded in the report.

For Radiate Spurious emission (26 GHz ~ 40 GHz):

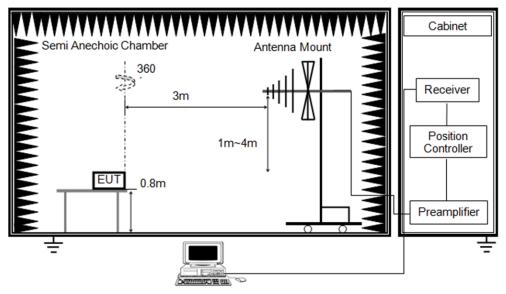
- Measurement = Reading Level + Correct Factor.
- 2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
- 3. Peak: Peak detector.
- 4. All modes, channels and antennas have been tested, only the worst data was recorded in the report.



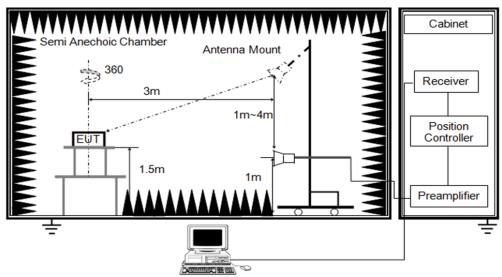
TEST SETUP



Below 1 GHz and above 30 MHz



Above 1 GHz





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TEST ENVIRONMENT

Temperature	24.9 °C	Relative Humidity	56 %
Atmosphere Pressure	101 kPa	Test Voltage	DC 7.2 V

TEST RESULTS

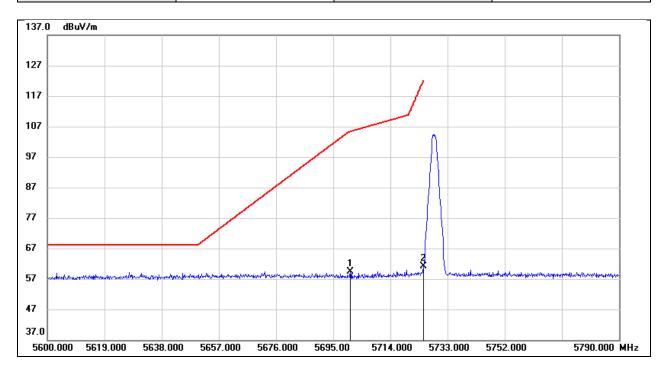


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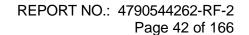
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8.1. RESTRICTED BANDEDGE

Test Mode:	1.4 MHz PEAK	Channel:	5728.5 MHz
Polarity:	Horizontal	Test Voltage:	DC 7.2 V

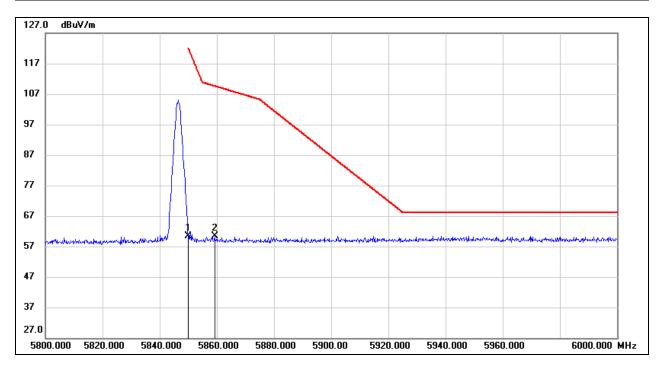


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5700.700	18.20	41.20	59.40	105.40	-46.00	peak
2	5725.000	19.83	41.27	61.10	122.20	-61.10	peak

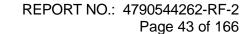




Test Mode:	1.4 MHz Hz PEAK	Channel:	5846.5 MHz
Polarity:	Horizontal	Test Voltage:	DC 7.2 V

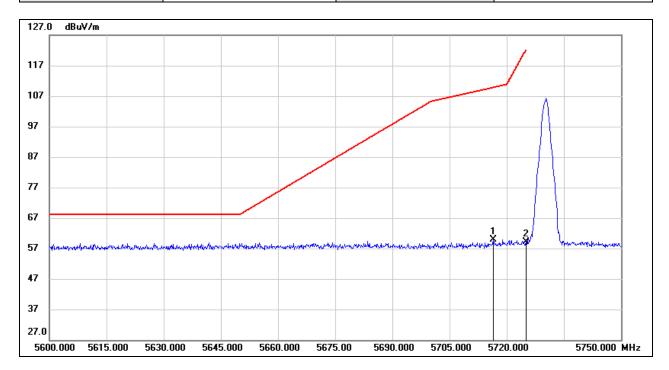


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5850.000	18.74	41.60	60.34	122.20	-61.86	peak
2	5859.200	18.65	41.62	60.27	109.62	-49.35	peak

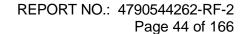




Test Mode:	1.4 MHz CA Mode PEAK	Channel:	5730.12 MHz
Polarity:	Horizontal	Test Voltage:	DC 7.2 V

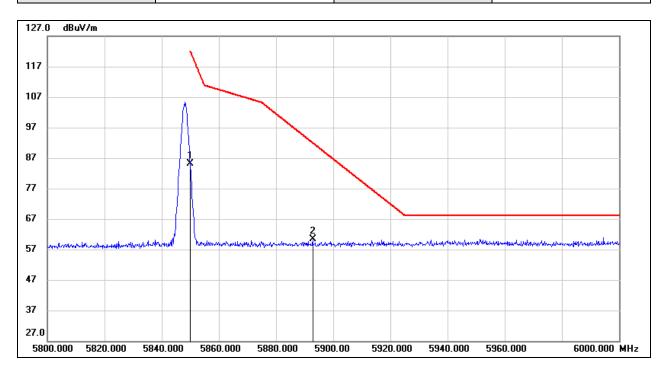


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5716.400	18.76	41.24	60.00	109.79	-49.79	peak
2	5725.000	17.76	41.27	59.03	122.20	-63.17	peak

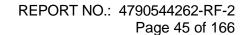




Test Mode: 1.4 MHz CA Mode PEAK Channel: 5848.12 MHz
Polarity: Horizontal Test Voltage: DC 7.2 V

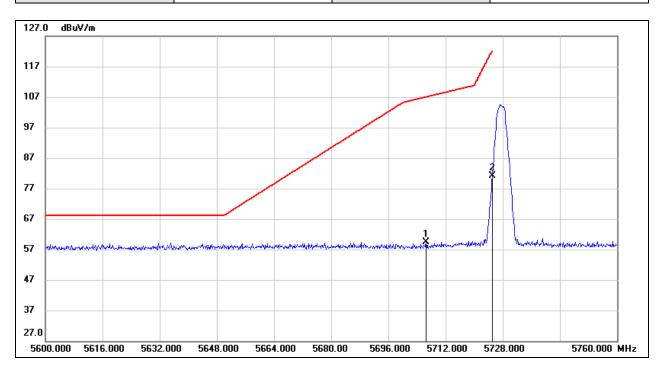


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5850.000	43.41	41.60	85.01	122.20	-37.19	peak
2	5892.800	18.60	41.71	60.31	91.99	-31.68	peak

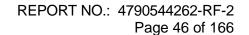




Test Mode: 3 MHz PEAK Channel: 5727.5 MHz
Polarity: Horizontal Test Voltage: DC 7.2 V

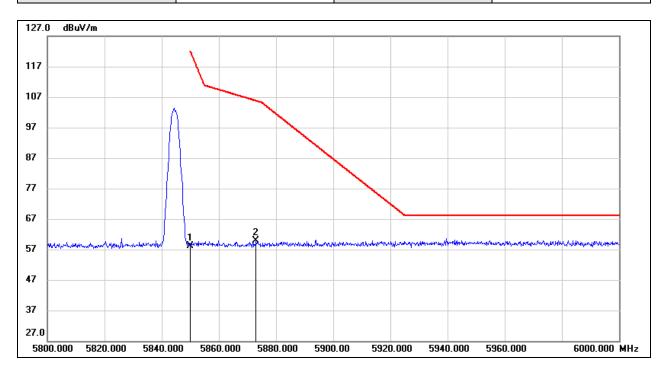


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5706.560	18.20	41.22	59.42	107.04	-47.62	peak
2	5725.000	39.92	41.27	81.19	122.20	-41.01	peak

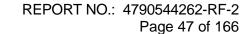




Test Mode:	3 MHz PEAK	Channel:	5844.5 MHz
Polarity:	Horizontal	Test Voltage:	DC 7.2 V

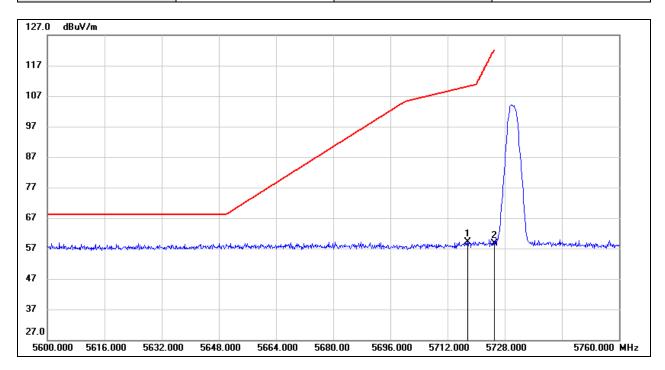


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5850.000	16.43	41.60	58.03	122.20	-64.17	peak
2	5873.000	18.28	41.66	59.94	105.76	-45.82	peak

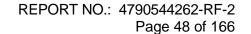




Test Mode:	3 MHz CA Mode PEAK	Channel:	5730.2 MHz
Polarity:	Horizontal	Test Voltage:	DC 7.2 V

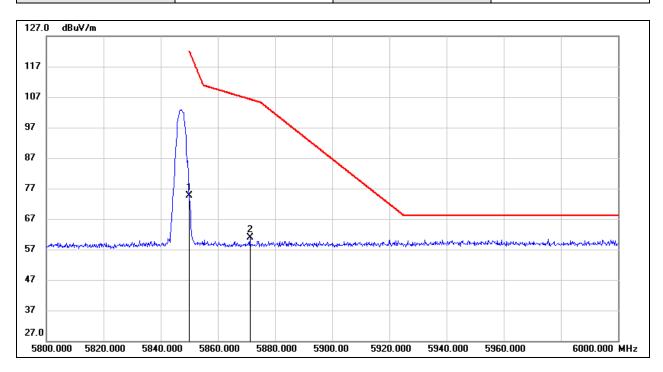


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5717.600	17.96	41.25	59.21	110.13	-50.92	peak
2	5725.000	17.30	41.27	58.57	122.20	-63.63	peak

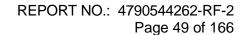




Test Mode: 3 MHz CA Mode PEAK Channel: 5847.2 MHz
Polarity: Horizontal Test Voltage: DC 7.2 V

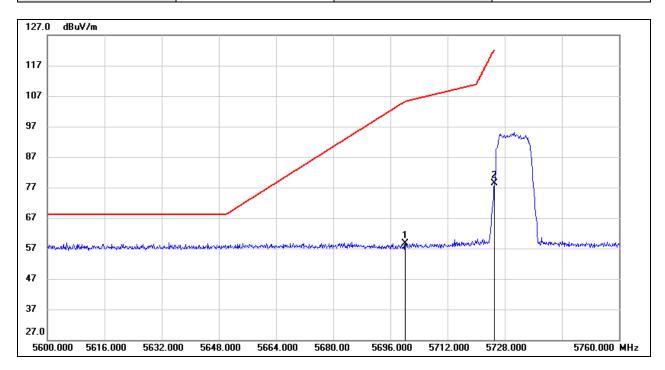


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5850.000	32.96	41.60	74.56	122.20	-47.64	peak
2	5871.200	19.20	41.65	60.85	106.26	-45.41	peak

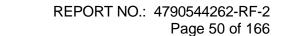




Test Mode:	10 MHz PEAK	Channel:	5730.5 MHz
Polarity:	Horizontal	Test Voltage:	DC 7.2 V

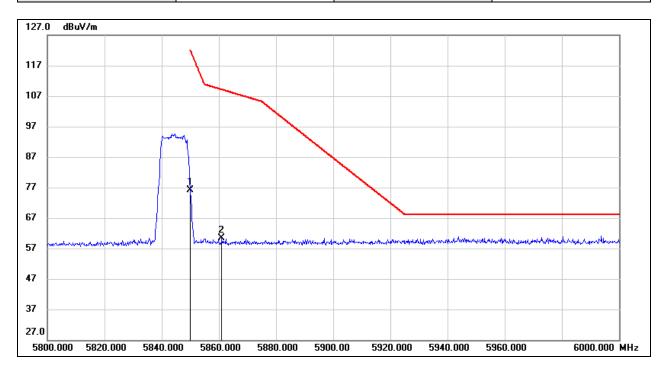


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5700.160	17.55	41.20	58.75	105.24	-46.49	peak
2	5725.000	37.13	41.27	78.40	122.20	-43.80	peak

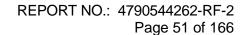




Test Mode: 10 MHz PEAK Channel: 5844.5 MHz
Polarity: Horizontal Test Voltage: DC 7.2 V

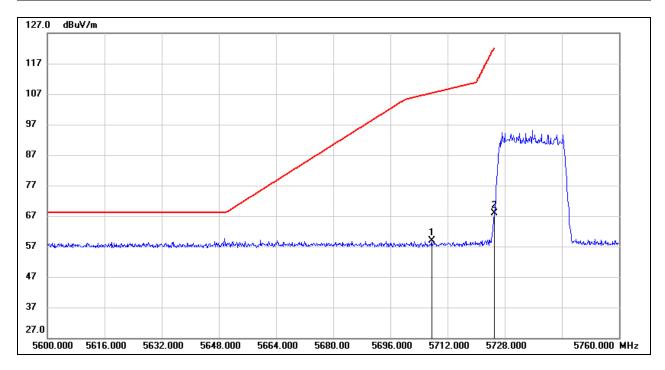


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5850.000	34.47	41.60	76.07	122.20	-46.13	peak
2	5861.000	18.76	41.63	60.39	109.12	-48.73	peak

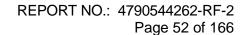




Test Mode: 20 MHz PEAK Channel: 5735.5 MHz
Polarity: Horizontal Test Voltage: DC 7.2 V

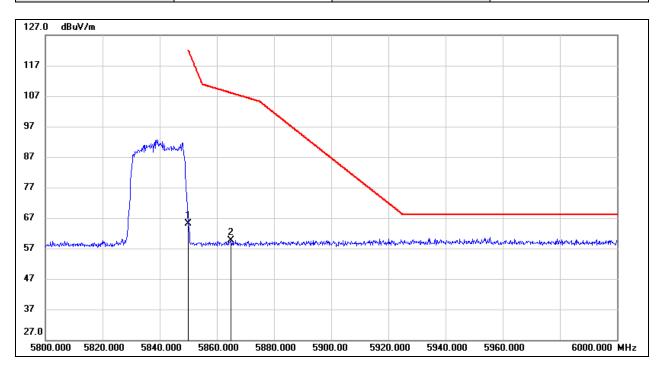


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5707.520	17.55	41.22	58.77	107.31	-48.54	peak
2	5725.000	26.54	41.27	67.81	122.20	-54.39	peak

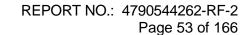




Test Mode: 20 MHz PEAK Channel: 5839.5 MHz
Polarity: Horizontal Test Voltage: DC 7.2 V

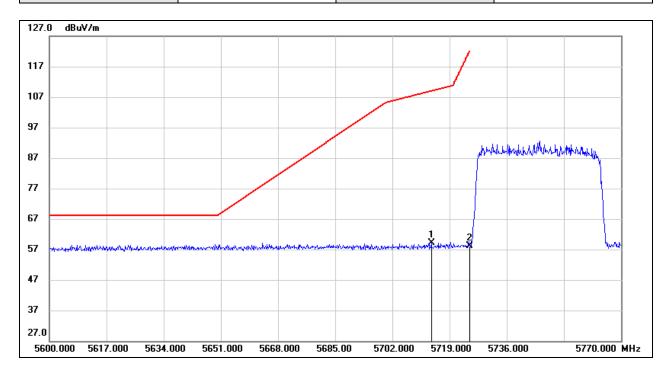


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5850.000	23.54	41.60	65.14	122.20	-57.06	peak
2	5865.000	18.02	41.64	59.66	108.00	-48.34	peak

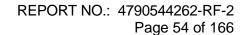




Test Mode:	40 MHz PEAK	Channel:	5745.5 MHz
Polarity:	Horizontal	Test Voltage:	DC 7.2 V

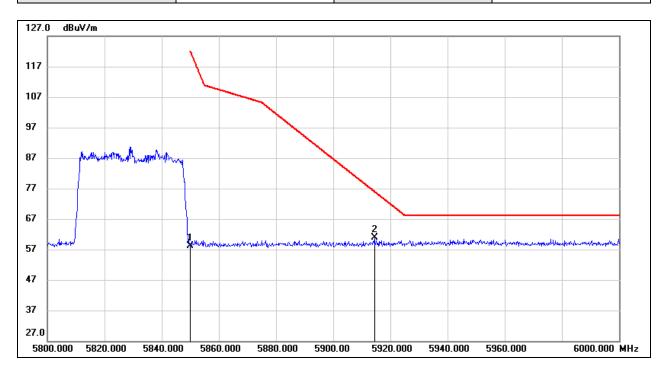


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5713.560	17.82	41.23	59.05	109.00	-49.95	peak
2	5725.000	16.81	41.27	58.08	122.20	-64.12	peak





Test Mode:	40 MHz PEAK	Channel:	5829.5 MHz
Polarity:	Horizontal	Test Voltage:	DC 7.2 V



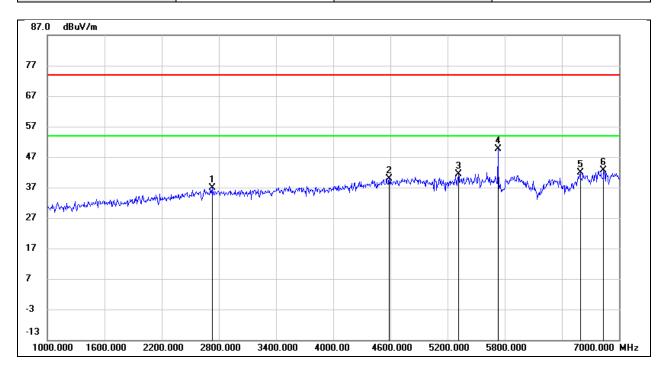
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5850.000	16.63	41.60	58.23	122.20	-63.97	peak
2	5914.400	19.07	41.77	60.84	76.02	-15.18	peak



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8.2. SPURIOUS EMISSIONS (1 GHZ ~ 7 GHZ)

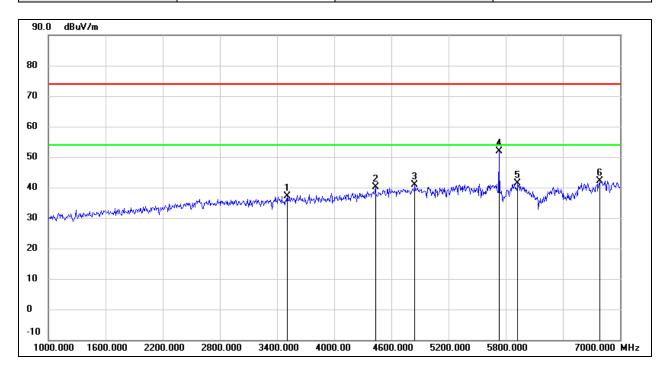
Test Mode:	1.4 MHz	Channel:	5728.5 MHz
Polarity:	Horizontal	Test Voltage:	DC 7.2 V



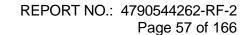
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2728.000	44.68	-7.80	36.88	74.00	-37.12	peak
2	4588.000	41.69	-1.79	39.90	74.00	-34.10	peak
3	5314.000	41.27	0.21	41.48	74.00	-32.52	peak
4	5728.000	48.62	1.07	49.69	74.00	-24.31	peak
5	6592.000	37.76	4.19	41.95	74.00	-32.05	peak
6	6838.000	37.16	5.40	42.56	74.00	-31.44	peak



Test Mode:	1.4 MHz	Channel:	5728.5 MHz
Polarity:	Vertical	Test Voltage:	DC 7.2 V

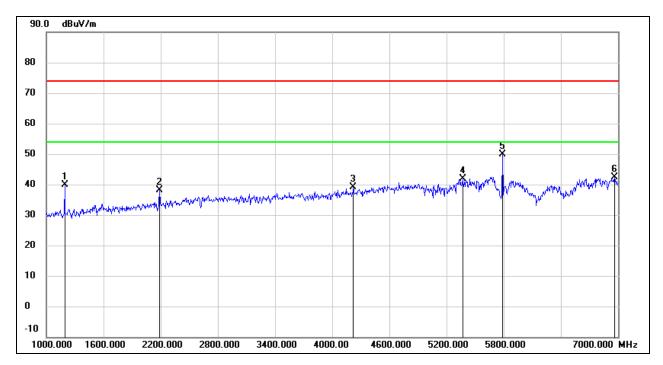


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3508.000	42.96	-5.82	37.14	74.00	-36.86	peak
2	4432.000	42.47	-2.46	40.01	74.00	-33.99	peak
3	4846.000	41.60	-0.77	40.83	74.00	-33.17	peak
4	5728.000	50.77	1.07	51.84	74.00	-22.16	peak
5	5926.000	39.67	1.64	41.31	74.00	-32.69	peak
6	6790.000	36.93	5.15	42.08	74.00	-31.92	peak





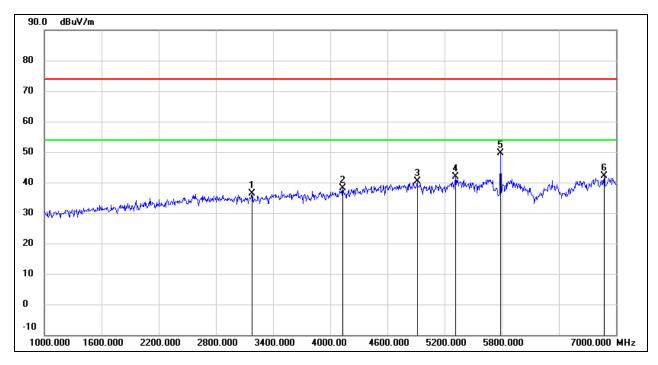
Test Mode:	1.4 MHz	Channel:	5786.5 MHz
Polarity:	Horizontal	Test Voltage:	DC 7.2 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1192.000	53.94	-14.14	39.80	74.00	-34.20	peak
2	2188.000	48.16	-10.09	38.07	74.00	-35.93	peak
3	4222.000	42.52	-3.44	39.08	74.00	-34.92	peak
4	5368.000	41.58	0.28	41.86	74.00	-32.14	peak
5	5788.000	48.61	1.25	49.86	74.00	-24.14	peak
6	6964.000	36.28	6.03	42.31	74.00	-31.69	peak



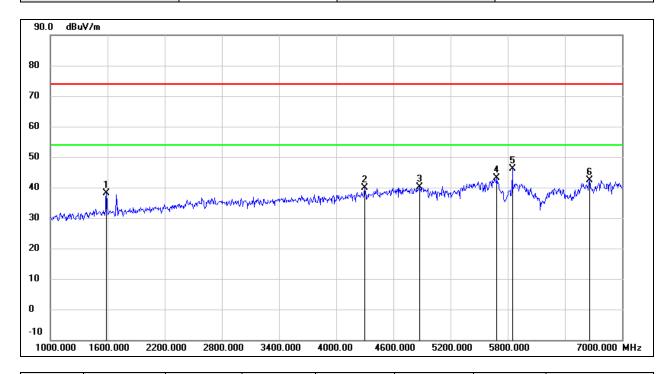
Test Mode: 1.4 MHz Channel: 5786.5 MHz
Polarity: Vertical Test Voltage: DC 7.2 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3178.000	42.85	-6.58	36.27	74.00	-37.73	peak
2	4132.000	42.10	-3.87	38.23	74.00	-35.77	peak
3	4912.000	40.95	-0.50	40.45	74.00	-33.55	peak
4	5314.000	41.78	0.21	41.99	74.00	-32.01	peak
5	5788.000	48.37	1.25	49.62	74.00	-24.38	peak
6	6874.000	36.61	5.57	42.18	74.00	-31.82	peak



Test Mode:	1.4 MHz	Channel:	5846.5 MHz
Polarity:	Horizontal	Test Voltage:	DC 7.2 V

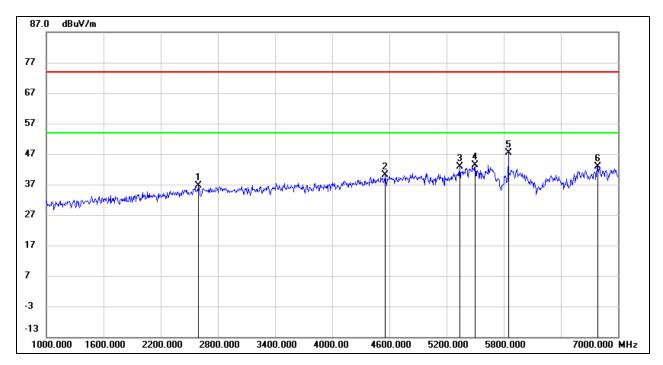


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1588.000	50.45	-12.42	38.03	74.00	-35.97	peak
2	4300.000	42.84	-3.08	39.76	74.00	-34.24	peak
3	4876.000	40.70	-0.64	40.06	74.00	-33.94	peak
4	5686.000	42.18	0.96	43.14	74.00	-30.86	peak
5	5848.000	44.64	1.41	46.05	74.00	-27.95	peak
6	6658.000	37.80	4.49	42.29	74.00	-31.71	peak





Test Mode:	1.4 MHz	Channel:	5846.5 MHz
Polarity:	Vertical	Test Voltage:	DC 7.2 V



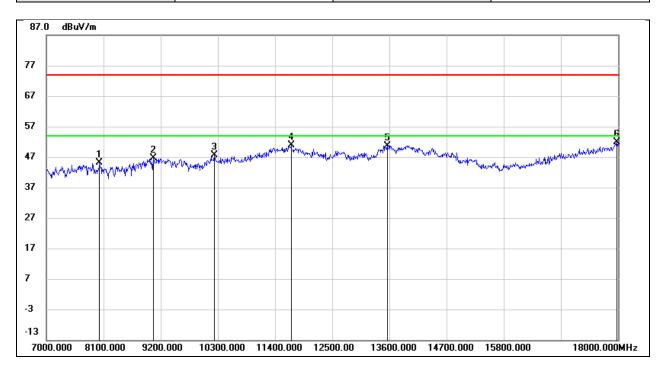
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2596.000	44.81	-8.20	36.61	74.00	-37.39	peak
2	4558.000	42.05	-1.91	40.14	74.00	-33.86	peak
3	5338.000	42.76	0.24	43.00	74.00	-31.00	peak
4	5500.000	43.00	0.42	43.42	74.00	-30.58	peak
5	5848.000	46.07	1.41	47.48	74.00	-26.52	peak
6	6790.000	37.70	5.15	42.85	74.00	-31.15	peak



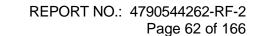
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8.3. SPURIOUS EMISSIONS (7 GHZ ~ 18 GHZ)

Test Mode:	1.4 MHz	Channel:	5728.5 MHz
Polarity:	Horizontal	Test Voltage:	DC 7.2 V

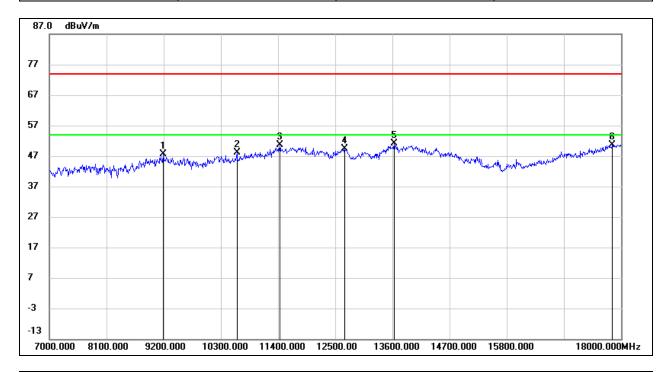


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8023.000	38.63	6.45	45.08	74.00	-28.92	peak
2	9057.000	36.23	10.38	46.61	74.00	-27.39	peak
3	10234.000	35.27	12.26	47.53	74.00	-26.47	peak
4	11708.000	33.78	17.16	50.94	74.00	-23.06	peak
5	13556.000	29.97	20.78	50.75	74.00	-23.25	peak
6	17978.000	25.93	25.97	51.90	74.00	-22.10	peak

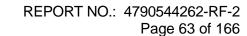




Test Mode:	1.4 MHz	Channel:	5728.5 MHz
Polarity:	Vertical	Test Voltage:	DC 7.2 V



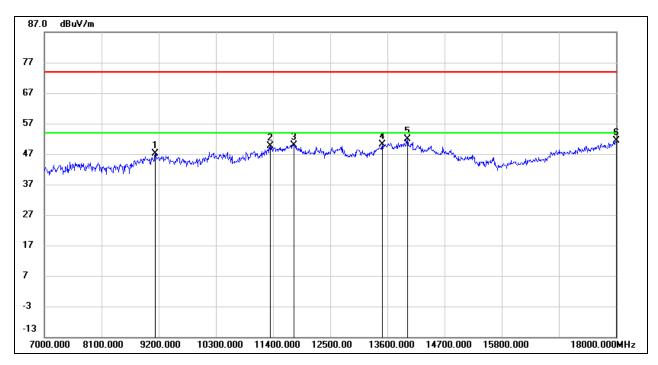
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9189.000	37.22	10.46	47.68	74.00	-26.32	peak
2	10608.000	34.92	13.23	48.15	74.00	-25.85	peak
3	11433.000	34.10	16.50	50.60	74.00	-23.40	peak
4	12676.000	31.26	18.05	49.31	74.00	-24.69	peak
5	13633.000	30.06	20.97	51.03	74.00	-22.97	peak
6	17835.000	25.65	24.99	50.64	74.00	-23.36	peak



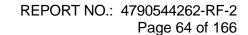


Test Mode: 1.4 MHz Channel: 5786.5 MHz

Polarity: Horizontal Test Voltage: DC 7.2 V

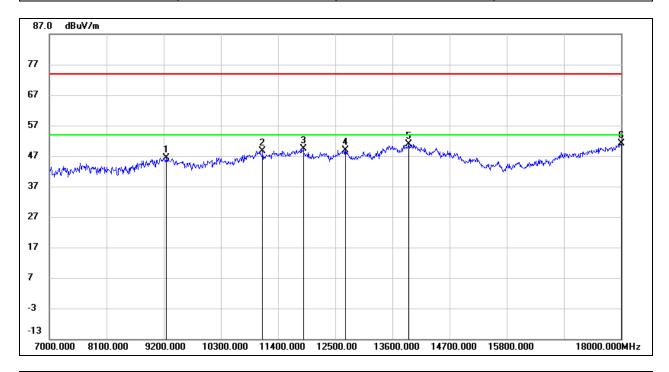


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9134.000	36.72	10.41	47.13	74.00	-26.87	peak
2	11345.000	33.57	16.14	49.71	74.00	-24.29	peak
3	11796.000	32.65	17.32	49.97	74.00	-24.03	peak
4	13501.000	29.45	20.64	50.09	74.00	-23.91	peak
5	13985.000	29.91	21.85	51.76	74.00	-22.24	peak
6	18000.000	25.36	26.12	51.48	74.00	-22.52	peak





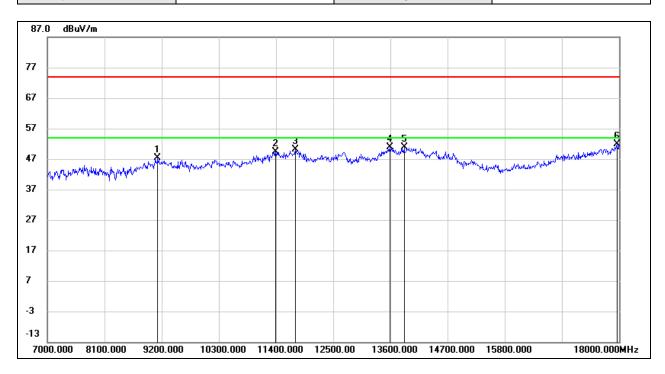
Test Mode:	1.4 MHz	Channel:	5786.5 MHz
Polarity:	Vertical	Test Voltage:	DC 7.2 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9244.000	35.97	10.49	46.46	74.00	-27.54	peak
2	11103.000	33.46	15.15	48.61	74.00	-25.39	peak
3	11884.000	31.85	17.48	49.33	74.00	-24.67	peak
4	12698.000	30.79	18.08	48.87	74.00	-25.13	peak
5	13919.000	29.18	21.68	50.86	74.00	-23.14	peak
6	18000.000	24.90	26.12	51.02	74.00	-22.98	peak



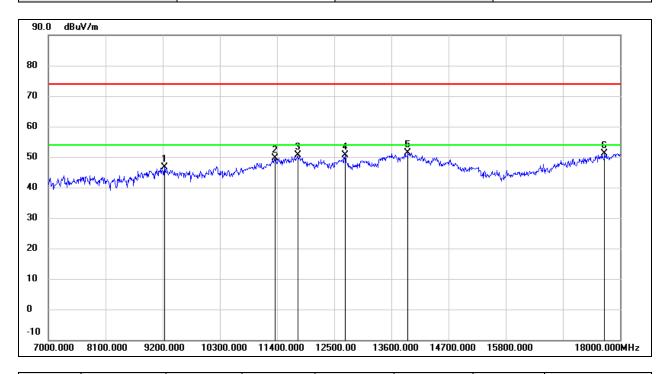
Test Mode:	1.4 MHz	Channel:	5846.5 MHz
Polarity:	Horizontal	Test Voltage:	DC 7.2 V



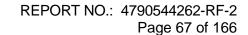
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9123.000	37.07	10.42	47.49	74.00	-26.51	peak
2	11389.000	32.99	16.31	49.30	74.00	-24.70	peak
3	11774.000	32.95	17.28	50.23	74.00	-23.77	peak
4	13589.000	29.91	20.86	50.77	74.00	-23.23	peak
5	13864.000	29.36	21.53	50.89	74.00	-23.11	peak
6	17956.000	26.17	25.82	51.99	74.00	-22.01	peak



Test Mode:	1.4 MHz	Channel:	5846.5 MHz
Polarity:	Vertical	Test Voltage:	DC 7.2 V

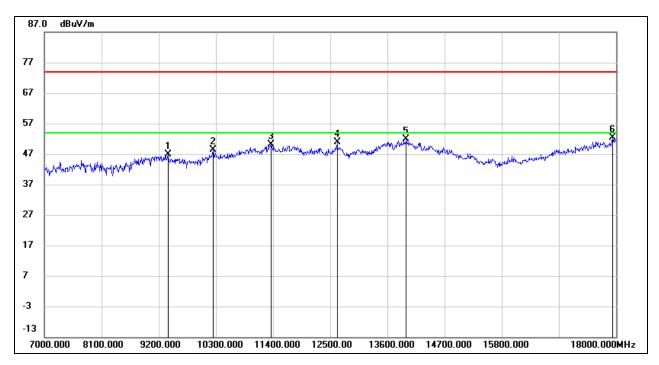


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9233.000	36.15	10.48	46.63	74.00	-27.37	peak
2	11356.000	33.41	16.19	49.60	74.00	-24.40	peak
3	11796.000	33.30	17.32	50.62	74.00	-23.38	peak
4	12709.000	32.58	18.09	50.67	74.00	-23.33	peak
5	13919.000	29.80	21.68	51.48	74.00	-22.52	peak
6	17703.000	27.11	24.09	51.20	74.00	-22.80	peak

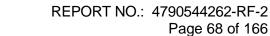




Test Mode:	1.4 MHz CA Mode	Channel:	5730.12 MHz
Polarity:	Horizontal	Test Voltage:	DC 7.2 V



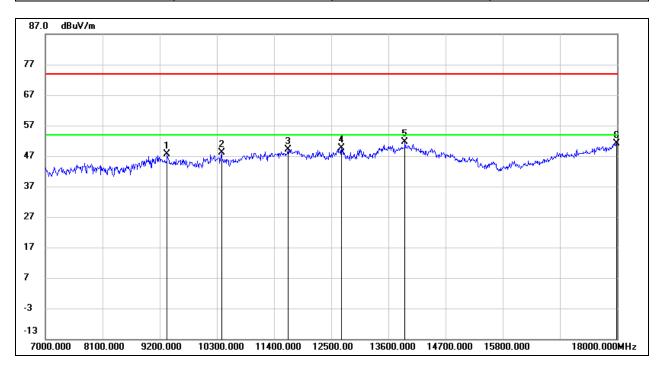
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9376.000	36.18	10.58	46.76	74.00	-27.24	peak
2	10245.000	36.18	12.28	48.46	74.00	-25.54	peak
3	11356.000	33.98	16.19	50.17	74.00	-23.83	peak
4	12632.000	32.90	17.99	50.89	74.00	-23.11	peak
5	13963.000	30.11	21.78	51.89	74.00	-22.11	peak
6	17934.000	26.78	25.67	52.45	74.00	-21.55	peak



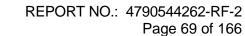


Test Mode: 1.4 MHz CA Mode Channel: 5730.12 MHz

Polarity: Vertical Test Voltage: DC 7.2 V

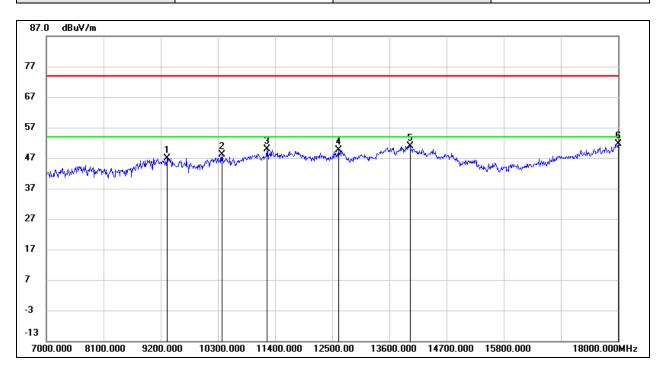


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9343.000	37.04	10.55	47.59	74.00	-26.41	peak
2	10388.000	35.46	12.59	48.05	74.00	-25.95	peak
3	11675.000	32.10	17.10	49.20	74.00	-24.80	peak
4	12698.000	31.63	18.08	49.71	74.00	-24.29	peak
5	13919.000	29.96	21.68	51.64	74.00	-22.36	peak
6	17989.000	25.19	26.04	51.23	74.00	-22.77	peak





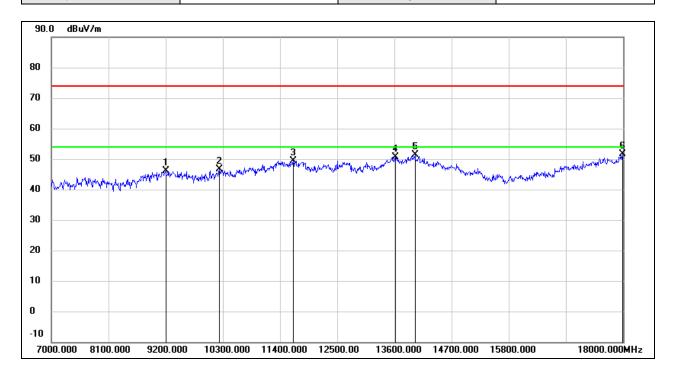
Test Mode: 1.4 MHz CA Mode Channel: 5788.12 MHz
Polarity: Horizontal Test Voltage: DC 7.2 V



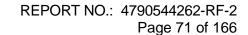
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9321.000	36.44	10.53	46.97	74.00	-27.03	peak
2	10377.000	35.54	12.56	48.10	74.00	-25.90	peak
3	11246.000	34.13	15.73	49.86	74.00	-24.14	peak
4	12621.000	31.60	17.98	49.58	74.00	-24.42	peak
5	13996.000	29.08	21.87	50.95	74.00	-23.05	peak
6	18000.000	25.54	26.12	51.66	74.00	-22.34	peak



Test Mode:	1.4 MHz CA Mode	Channel:	5788.12 MHz
Polarity:	Vertical	Test Voltage:	DC 7.2 V

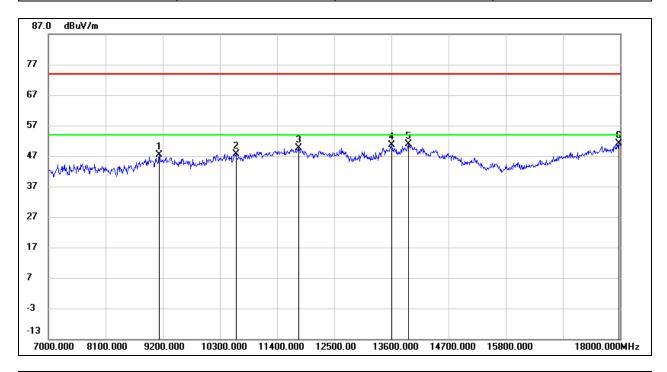


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9200.000	35.67	10.46	46.13	74.00	-27.87	peak
2	10234.000	34.40	12.26	46.66	74.00	-27.34	peak
3	11653.000	32.30	17.05	49.35	74.00	-24.65	peak
4	13622.000	29.79	20.95	50.74	74.00	-23.26	peak
5	13996.000	29.57	21.87	51.44	74.00	-22.56	peak
6	17989.000	25.52	26.04	51.56	74.00	-22.44	peak

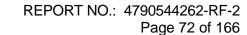




Test Mode:	1.4 MHz CA Mode	Channel:	5848.12 MHz
Polarity:	Horizontal	Test Voltage:	DC 7.2 V



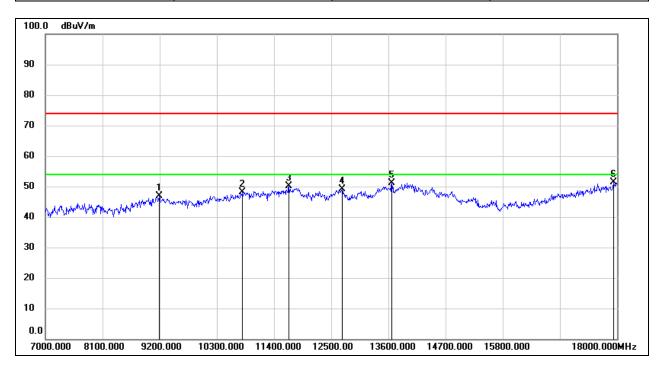
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9134.000	37.03	10.41	47.44	74.00	-26.56	peak
2	10608.000	34.45	13.23	47.68	74.00	-26.32	peak
3	11818.000	32.30	17.36	49.66	74.00	-24.34	peak
4	13611.000	29.72	20.92	50.64	74.00	-23.36	peak
5	13930.000	29.13	21.71	50.84	74.00	-23.16	peak
6	17978.000	25.05	25.97	51.02	74.00	-22.98	peak





Test Mode: 1.4 MHz CA Mode Channel: 5848.12 MHz

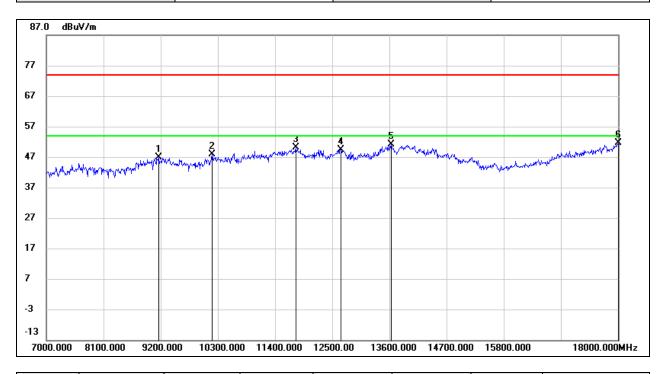
Polarity: Vertical Test Voltage: DC 7.2 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9189.000	36.45	10.46	46.91	74.00	-27.09	peak
2	10795.000	34.26	13.94	48.20	74.00	-25.80	peak
3	11686.000	32.94	17.12	50.06	74.00	-23.94	peak
4	12709.000	31.05	18.09	49.14	74.00	-24.86	peak
5	13666.000	30.17	21.05	51.22	74.00	-22.78	peak
6	17934.000	25.74	25.67	51.41	74.00	-22.59	peak



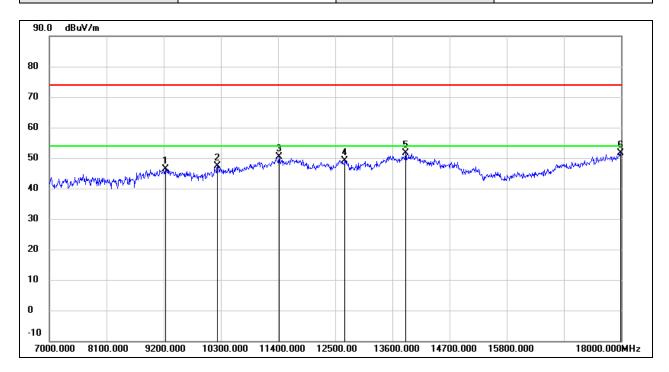
Test Mode: 3 MHz Channel: 5727.5 MHz
Polarity: Horizontal Test Voltage: DC 7.2 V



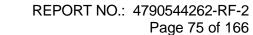
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9167.000	36.50	10.45	46.95	74.00	-27.05	peak
2	10190.000	35.73	12.18	47.91	74.00	-26.09	peak
3	11796.000	32.79	17.32	50.11	74.00	-23.89	peak
4	12665.000	31.39	18.04	49.43	74.00	-24.57	peak
5	13633.000	30.16	20.97	51.13	74.00	-22.87	peak
6	18000.000	25.46	26.12	51.58	74.00	-22.42	peak



Test Mode:	3 MHz	Channel:	5727.5 MHz
Polarity:	Vertical	Test Voltage:	DC 7.2 V

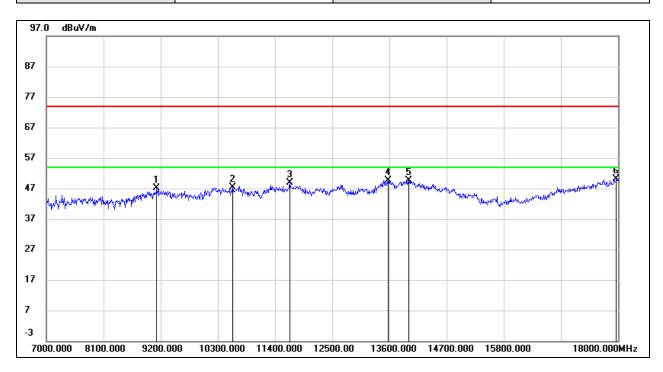


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9233.000	35.97	10.48	46.45	74.00	-27.55	peak
2	10234.000	35.04	12.26	47.30	74.00	-26.70	peak
3	11422.000	33.98	16.46	50.44	74.00	-23.56	peak
4	12687.000	31.20	18.05	49.25	74.00	-24.75	peak
5	13853.000	30.16	21.52	51.68	74.00	-22.32	peak
6	17989.000	25.67	26.04	51.71	74.00	-22.29	peak





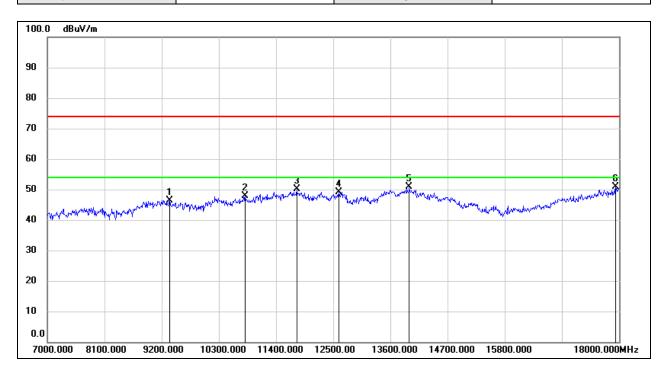
Test Mode:	3 MHz	Channel:	5784.5 MHz
Polarity:	Horizontal	Test Voltage:	DC 7.2 V



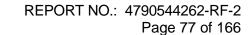
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9123.000	36.69	10.42	47.11	74.00	-26.89	peak
2	10586.000	34.26	13.15	47.41	74.00	-26.59	peak
3	11686.000	31.65	17.12	48.77	74.00	-25.23	peak
4	13578.000	28.85	20.83	49.68	74.00	-24.32	peak
5	13974.000	27.86	21.82	49.68	74.00	-24.32	peak
6	17967.000	24.33	25.89	50.22	74.00	-23.78	peak



Test Mode: 3 MHz Channel: 5784.5 MHz
Polarity: Vertical Test Voltage: DC 7.2 V

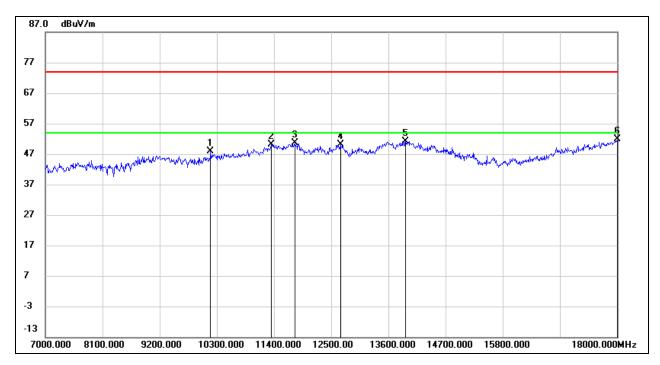


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9354.000	35.77	10.56	46.33	74.00	-27.67	peak
2	10806.000	33.82	13.98	47.80	74.00	-26.20	peak
3	11796.000	32.90	17.32	50.22	74.00	-23.78	peak
4	12610.000	31.11	17.97	49.08	74.00	-24.92	peak
5	13963.000	29.07	21.78	50.85	74.00	-23.15	peak
6	17934.000	25.13	25.67	50.80	74.00	-23.20	peak





Test Mode: 3 MHz Channel: 5844.5 MHz
Polarity: Horizontal Test Voltage: DC 7.2 V

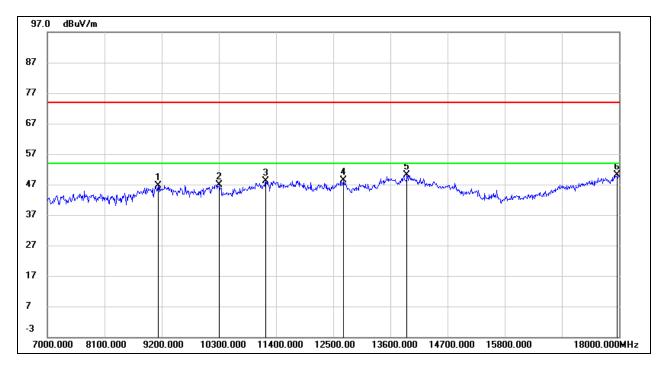


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	10179.000	35.68	12.14	47.82	74.00	-26.18	peak
2	11345.000	33.93	16.14	50.07	74.00	-23.93	peak
3	11796.000	33.38	17.32	50.70	74.00	-23.30	peak
4	12676.000	32.09	18.05	50.14	74.00	-23.86	peak
5	13930.000	29.49	21.71	51.20	74.00	-22.80	peak
6	18000.000	25.73	26.12	51.85	74.00	-22.15	peak





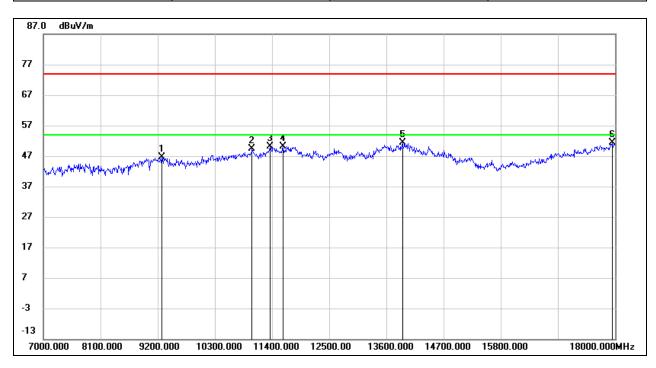
Test Mode:	3 MHz	Channel:	5844.5 MHz
Polarity:	Vertical	Test Voltage:	DC 7.2 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9134.000	36.29	10.41	46.70	74.00	-27.30	peak
2	10311.000	34.52	12.42	46.94	74.00	-27.06	peak
3	11202.000	32.65	15.55	48.20	74.00	-25.80	peak
4	12698.000	30.18	18.08	48.26	74.00	-25.74	peak
5	13919.000	28.48	21.68	50.16	74.00	-23.84	peak
6	17967.000	24.19	25.89	50.08	74.00	-23.92	peak



Test Mode: 3 MHz CA Mode Channel: 5730.2 MHz
Polarity: Horizontal Test Voltage: DC 7.2 V

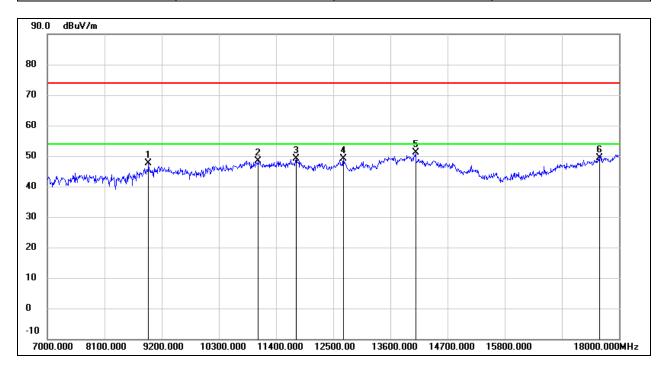


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9277.000	36.20	10.51	46.71	74.00	-27.29	peak
2	11015.000	34.54	14.79	49.33	74.00	-24.67	peak
3	11367.000	33.83	16.22	50.05	74.00	-23.95	peak
4	11609.000	33.17	16.98	50.15	74.00	-23.85	peak
5	13908.000	29.63	21.66	51.29	74.00	-22.71	peak
6	17945.000	25.70	25.75	51.45	74.00	-22.55	peak

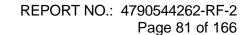




Test Mode:	3 MHz CA Mode	Channel:	5730.2 MHz
Polarity:	Vertical	Test Voltage:	DC 7.2 V

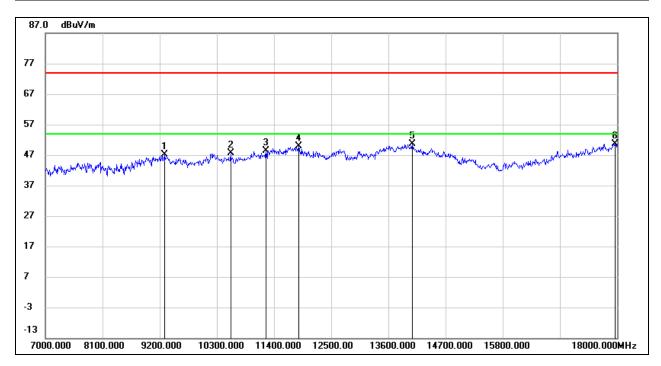


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8947.000	37.61	9.98	47.59	74.00	-26.41	peak
2	11059.000	33.37	14.96	48.33	74.00	-25.67	peak
3	11785.000	31.71	17.30	49.01	74.00	-24.99	peak
4	12698.000	31.09	18.08	49.17	74.00	-24.83	peak
5	14084.000	29.61	21.52	51.13	74.00	-22.87	peak
6	17626.000	25.84	23.57	49.41	74.00	-24.59	peak

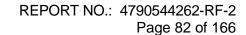




Test Mode:	3 MHz CA Mode	Channel:	5787.2 MHz
Polarity:	Horizontal	Test Voltage:	DC 7.2 V

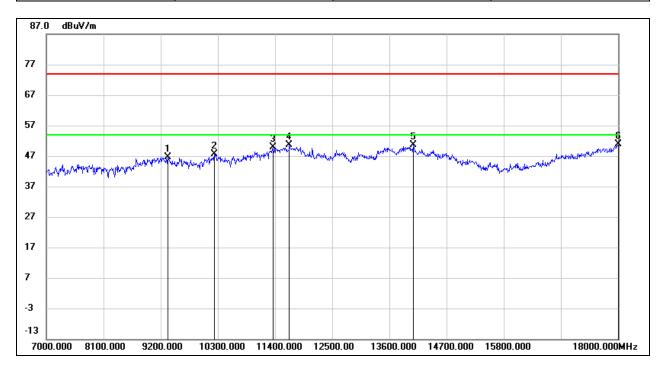


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9288.000	36.51	10.52	47.03	74.00	-26.97	peak
2	10564.000	34.58	13.06	47.64	74.00	-26.36	peak
3	11246.000	32.57	15.73	48.30	74.00	-25.70	peak
4	11873.000	32.34	17.46	49.80	74.00	-24.20	peak
5	14062.000	29.08	21.62	50.70	74.00	-23.30	peak
6	17956.000	24.77	25.82	50.59	74.00	-23.41	peak





Test Mode:	3 MHz CA Mode	Channel:	5787.2 MHz
Polarity:	Vertical	Test Voltage:	DC 7.2 V

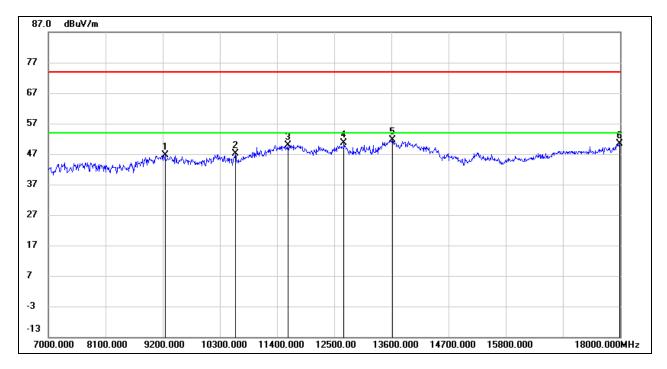


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9332.000	36.01	10.54	46.55	74.00	-27.45	peak
2	10234.000	35.32	12.26	47.58	74.00	-26.42	peak
3	11356.000	33.64	16.19	49.83	74.00	-24.17	peak
4	11675.000	33.51	17.10	50.61	74.00	-23.39	peak
5	14062.000	29.08	21.62	50.70	74.00	-23.30	peak
6	18000.000	24.73	26.12	50.85	74.00	-23.15	peak

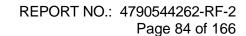




Test Mode:	Mode: 3 MHz CA Mode		5847.2 MHz
Polarity:	Horizontal	Test Voltage:	DC 7.2 V



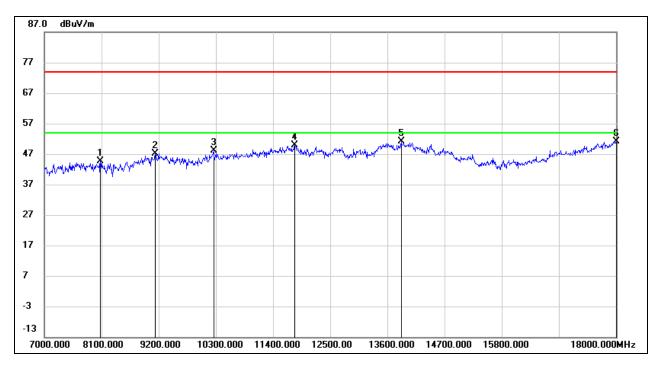
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9244.000	36.24	10.49	46.73	74.00	-27.27	peak
2	10597.000	33.94	13.19	47.13	74.00	-26.87	peak
3	11609.000	32.96	16.98	49.94	74.00	-24.06	peak
4	12687.000	32.65	18.05	50.70	74.00	-23.30	peak
5	13622.000	30.76	20.95	51.71	74.00	-22.29	peak
6	17989.000	24.28	26.04	50.32	74.00	-23.68	peak





Test Mode: 3 MHz CA Mode Channel: 5847.2 MHz

Polarity: Vertical Test Voltage: DC 7.2 V

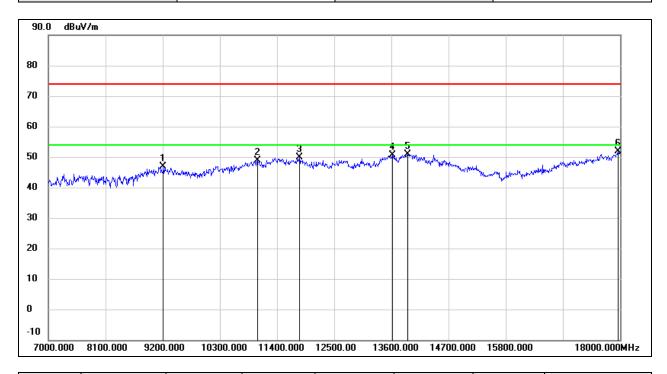


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8078.000	38.13	6.51	44.64	74.00	-29.36	peak
2	9134.000	36.66	10.41	47.07	74.00	-26.93	peak
3	10256.000	35.71	12.31	48.02	74.00	-25.98	peak
4	11818.000	32.60	17.36	49.96	74.00	-24.04	peak
5	13864.000	29.49	21.53	51.02	74.00	-22.98	peak
6	18000.000	24.94	26.12	51.06	74.00	-22.94	peak



Test Mode: 10 MHz Channel: 5730.5 MHz Polarity: Horizontal Test Voltage: DC 7.2 V

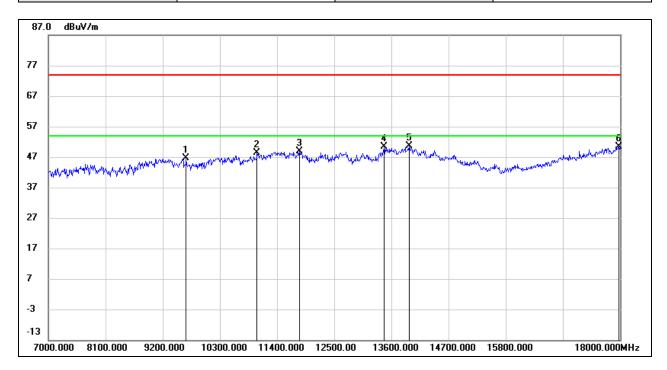
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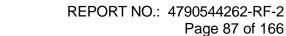
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9211.000	36.29	10.47	46.76	74.00	-27.24	peak
2	11026.000	34.08	14.82	48.90	74.00	-25.10	peak
3	11829.000	32.51	17.38	49.89	74.00	-24.11	peak
4	13622.000	29.71	20.95	50.66	74.00	-23.34	peak
5	13908.000	29.32	21.66	50.98	74.00	-23.02	peak
6	17967.000	26.06	25.89	51.95	74.00	-22.05	peak



Test Mode:	10 MHz	Channel:	5730.5 MHz
Polarity:	Vertical	Test Voltage:	DC 7.2 V

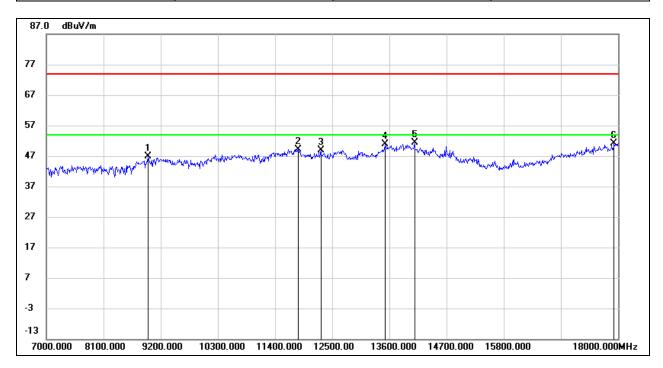


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9651.000	35.68	10.99	46.67	74.00	-27.33	peak
2	11015.000	33.63	14.79	48.42	74.00	-25.58	peak
3	11829.000	31.61	17.38	48.99	74.00	-25.01	peak
4	13457.000	29.82	20.46	50.28	74.00	-23.72	peak
5	13941.000	29.00	21.73	50.73	74.00	-23.27	peak
6	17978.000	24.35	25.97	50.32	74.00	-23.68	peak





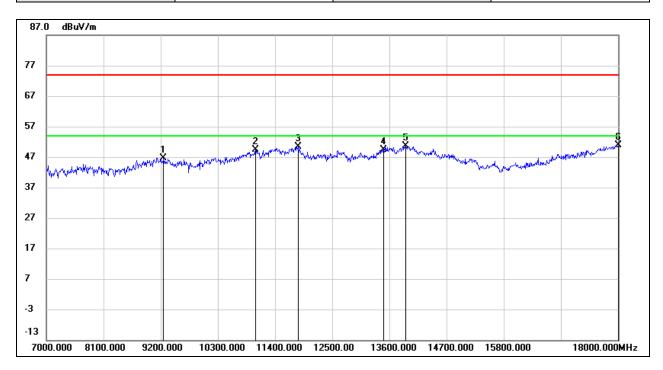
Test Mode: 10 MHz Channel: 5787.5 MHz
Polarity: Horizontal Test Voltage: DC 7.2 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8958.000	36.72	10.05	46.77	74.00	-27.23	peak
2	11840.000	31.80	17.40	49.20	74.00	-24.80	peak
3	12280.000	31.11	17.77	48.88	74.00	-25.12	peak
4	13512.000	30.10	20.68	50.78	74.00	-23.22	peak
5	14084.000	29.76	21.52	51.28	74.00	-22.72	peak
6	17923.000	25.52	25.60	51.12	74.00	-22.88	peak



Test Mode: 10 MHz Channel: 5787.5 MHz
Polarity: Vertical Test Voltage: DC 7.2 V

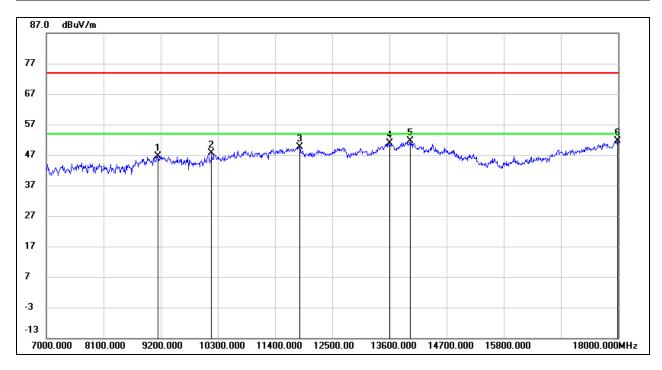


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9255.000	36.23	10.51	46.74	74.00	-27.26	peak
2	11026.000	34.64	14.82	49.46	74.00	-24.54	peak
3	11840.000	32.87	17.40	50.27	74.00	-23.73	peak
4	13490.000	28.87	20.60	49.47	74.00	-24.53	peak
5	13919.000	28.99	21.68	50.67	74.00	-23.33	peak
6	18000.000	24.84	26.12	50.96	74.00	-23.04	peak





Test Mode:	10 MHz	Channel:	5844.5 MHz
Polarity:	Horizontal	Test Voltage:	DC 7.2 V

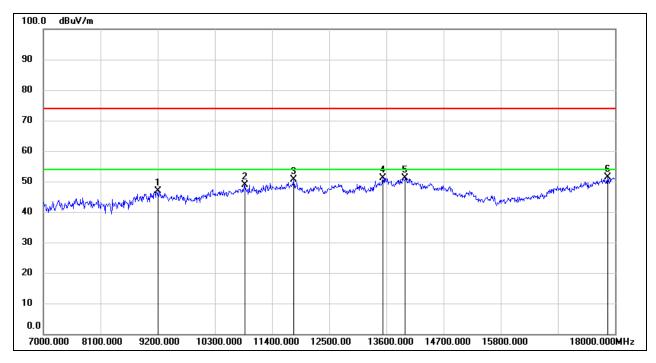


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9145.000	36.23	10.43	46.66	74.00	-27.34	peak
2	10179.000	35.55	12.14	47.69	74.00	-26.31	peak
3	11873.000	32.10	17.46	49.56	74.00	-24.44	peak
4	13611.000	30.06	20.92	50.98	74.00	-23.02	peak
5	13996.000	29.72	21.87	51.59	74.00	-22.41	peak
6	17989.000	25.70	26.04	51.74	74.00	-22.26	peak

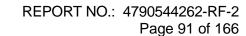


Test Mode: 10 MHz Channel: 5844.5 MHz Polarity: Vertical Test Voltage: DC 7.2 V

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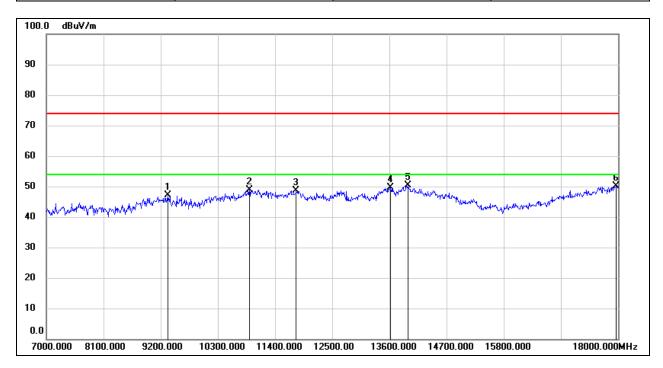
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9200.000	36.31	10.46	46.77	74.00	-27.23	peak
2	10872.000	34.63	14.23	48.86	74.00	-25.14	peak
3	11818.000	33.19	17.36	50.55	74.00	-23.45	peak
4	13534.000	30.52	20.73	51.25	74.00	-22.75	peak
5	13963.000	29.31	21.78	51.09	74.00	-22.91	peak
6	17857.000	26.28	25.14	51.42	74.00	-22.58	peak



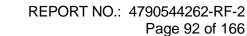


Test Mode: 20 MHz Channel: 5735.5 MHz

Polarity: Horizontal Test Voltage: DC 7.2 V

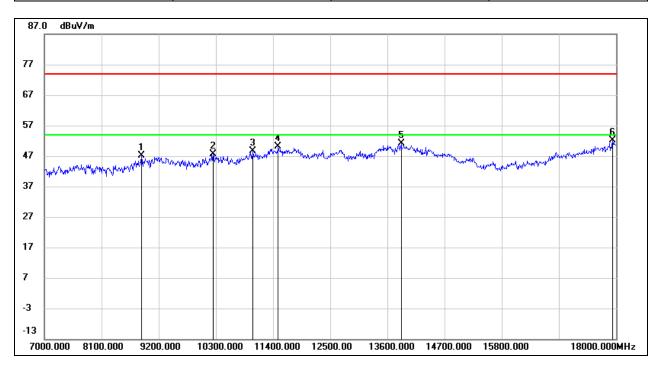


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9332.000	36.57	10.54	47.11	74.00	-26.89	peak
2	10905.000	34.55	14.36	48.91	74.00	-25.09	peak
3	11807.000	31.31	17.34	48.65	74.00	-25.35	peak
4	13622.000	28.78	20.95	49.73	74.00	-24.27	peak
5	13952.000	28.57	21.76	50.33	74.00	-23.67	peak
6	17956.000	24.34	25.82	50.16	74.00	-23.84	peak





Test Mode: 20 MHz Channel: 5735.5 MHz
Polarity: Vertical Test Voltage: DC 7.2 V

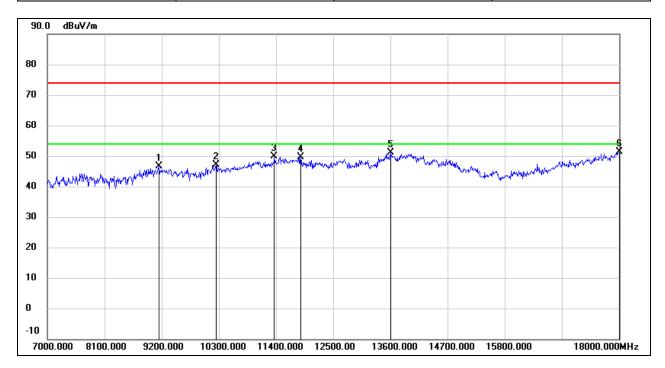


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8870.000	37.58	9.44	47.02	74.00	-26.98	peak
2	10245.000	35.40	12.28	47.68	74.00	-26.32	peak
3	11015.000	33.76	14.79	48.55	74.00	-25.45	peak
4	11499.000	33.27	16.77	50.04	74.00	-23.96	peak
5	13864.000	29.50	21.53	51.03	74.00	-22.97	peak
6	17934.000	26.40	25.67	52.07	74.00	-21.93	peak

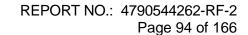




Test Mode:	20 MHz	Channel:	5787.5 MHz
Polarity:	Horizontal	Test Voltage:	DC 7.2 V

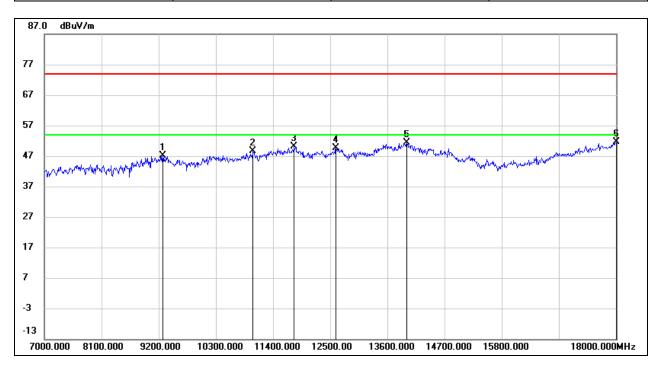


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9145.000	36.26	10.43	46.69	74.00	-27.31	peak
2	10245.000	34.88	12.28	47.16	74.00	-26.84	peak
3	11367.000	33.74	16.22	49.96	74.00	-24.04	peak
4	11873.000	32.16	17.46	49.62	74.00	-24.38	peak
5	13600.000	30.14	20.89	51.03	74.00	-22.97	peak
6	18000.000	25.29	26.12	51.41	74.00	-22.59	peak





Test Mode:	20 MHz	Channel:	5787.5 MHz
Polarity:	Vertical	Test Voltage:	DC 7.2 V

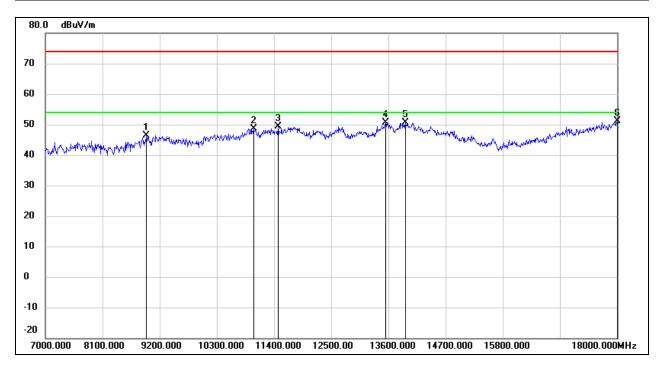


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9277.000	36.56	10.51	47.07	74.00	-26.93	peak
2	11015.000	33.93	14.79	48.72	74.00	-25.28	peak
3	11807.000	32.68	17.34	50.02	74.00	-23.98	peak
4	12610.000	31.73	17.97	49.70	74.00	-24.30	peak
5	13974.000	29.48	21.82	51.30	74.00	-22.70	peak
6	18000.000	25.53	26.12	51.65	74.00	-22.35	peak





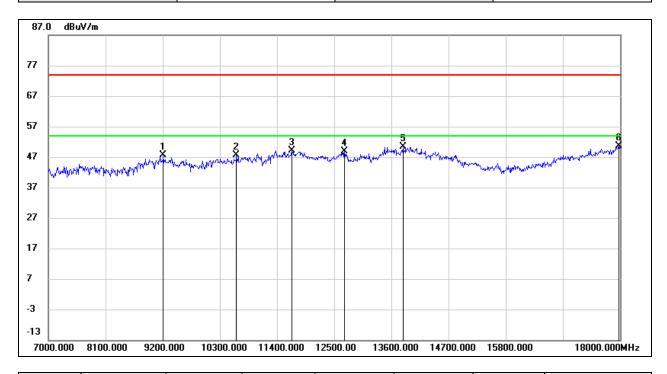
Test Mode:	20 MHz	Channel:	5839.5 MHz
Polarity:	Horizontal	Test Voltage:	DC 7.2 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8947.000	36.47	9.98	46.45	74.00	-27.55	peak
2	11004.000	34.01	14.74	48.75	74.00	-25.25	peak
3	11477.000	32.63	16.67	49.30	74.00	-24.70	peak
4	13545.000	29.76	20.75	50.51	74.00	-23.49	peak
5	13930.000	28.92	21.71	50.63	74.00	-23.37	peak
6	18000.000	24.93	26.12	51.05	74.00	-22.95	peak



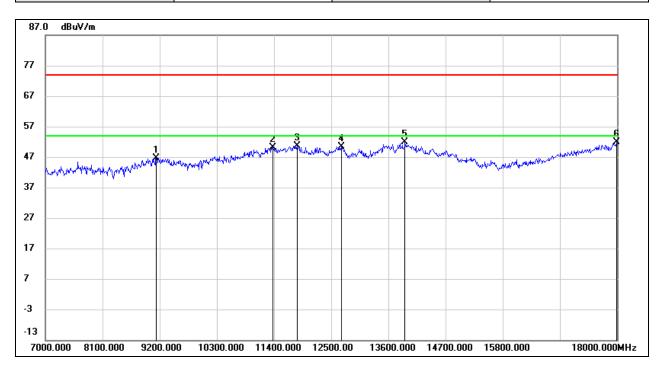
Test Mode:	20 MHz	Channel:	5839.5 MHz
Polarity:	Vertical	Test Voltage:	DC 7.2 V



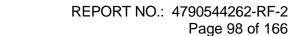
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9211.000	37.19	10.47	47.66	74.00	-26.34	peak
2	10619.000	34.23	13.28	47.51	74.00	-26.49	peak
3	11686.000	32.07	17.12	49.19	74.00	-24.81	peak
4	12698.000	30.73	18.08	48.81	74.00	-25.19	peak
5	13820.000	28.96	21.43	50.39	74.00	-23.61	peak
6	17978.000	24.72	25.97	50.69	74.00	-23.31	peak



Test Mode:	40 MHz	Channel:	5745.5 MHz
Polarity:	Horizontal	Test Voltage:	DC 7.2 V

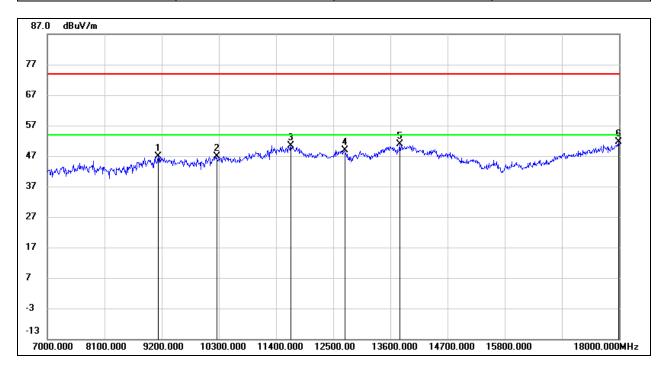


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9134.000	36.27	10.41	46.68	74.00	-27.32	peak
2	11378.000	33.88	16.26	50.14	74.00	-23.86	peak
3	11840.000	33.32	17.40	50.72	74.00	-23.28	peak
4	12698.000	32.40	18.08	50.48	74.00	-23.52	peak
5	13919.000	30.32	21.68	52.00	74.00	-22.00	peak
6	17989.000	25.75	26.04	51.79	74.00	-22.21	peak





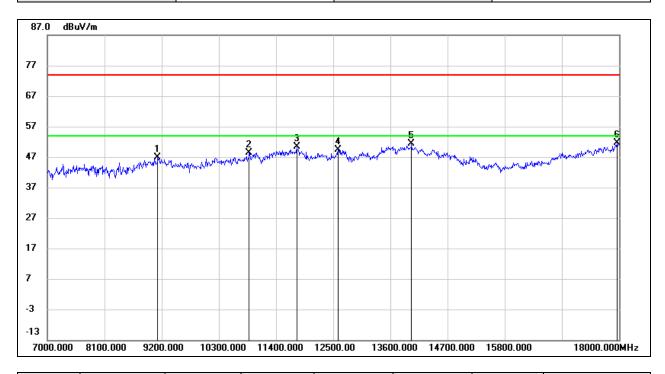
Test Mode:	40 MHz	Channel:	5745.5 MHz
Polarity:	Vertical	Test Voltage:	DC 7.2 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9134.000	36.36	10.41	46.77	74.00	-27.23	peak
2	10256.000	34.60	12.31	46.91	74.00	-27.09	peak
3	11686.000	33.37	17.12	50.49	74.00	-23.51	peak
4	12720.000	30.78	18.09	48.87	74.00	-25.13	peak
5	13776.000	29.52	21.33	50.85	74.00	-23.15	peak
6	17989.000	25.71	26.04	51.75	74.00	-22.25	peak



Test Mode:	40 MHz	Channel:	5787.5 MHz
Polarity:	Horizontal	Test Voltage:	DC 7.2 V

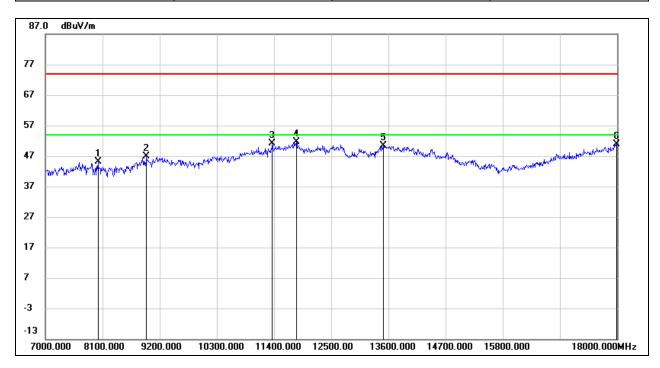


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9123.000	36.56	10.42	46.98	74.00	-27.02	peak
2	10883.000	34.21	14.27	48.48	74.00	-25.52	peak
3	11796.000	33.17	17.32	50.49	74.00	-23.51	peak
4	12588.000	31.45	17.94	49.39	74.00	-24.61	peak
5	14007.000	29.41	21.85	51.26	74.00	-22.74	peak
6	17956.000	25.85	25.82	51.67	74.00	-22.33	peak



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Test Mode: 40 MHz Channel: 5787.5 MHz
Polarity: Vertical Test Voltage: DC 7.2 V

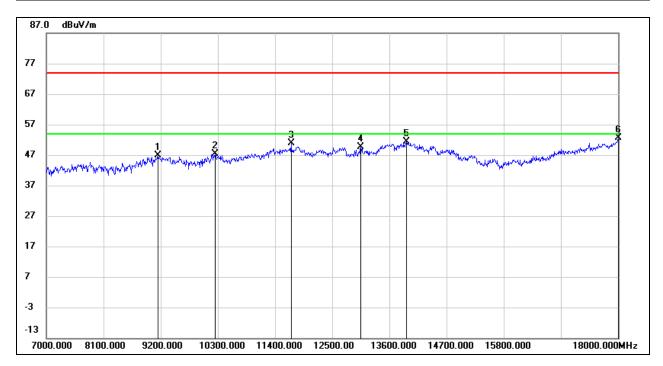


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8012.000	38.61	6.44	45.05	74.00	-28.95	peak
2	8947.000	36.79	9.98	46.77	74.00	-27.23	peak
3	11367.000	34.91	16.22	51.13	74.00	-22.87	peak
4	11829.000	34.32	17.38	51.70	74.00	-22.30	peak
5	13501.000	29.74	20.64	50.38	74.00	-23.62	peak
6	17989.000	24.79	26.04	50.83	74.00	-23.17	peak



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Test Mode:	40 MHz	Channel:	5829.5 MHz
Polarity:	Horizontal	Test Voltage:	DC 7.2 V

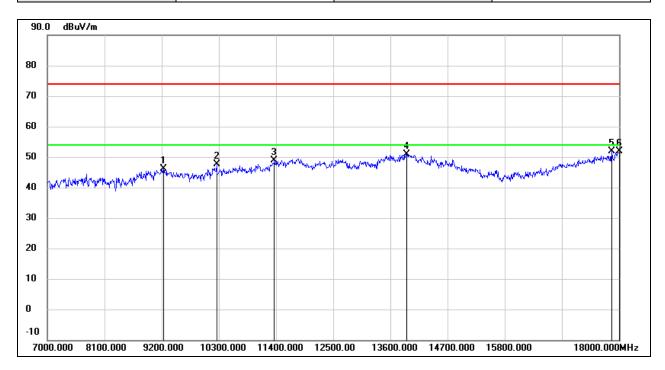


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9145.000	36.56	10.43	46.99	74.00	-27.01	peak
2	10245.000	35.15	12.28	47.43	74.00	-26.57	peak
3	11708.000	33.66	17.16	50.82	74.00	-23.18	peak
4	13050.000	30.91	18.66	49.57	74.00	-24.43	peak
5	13930.000	29.67	21.71	51.38	74.00	-22.62	peak
6	18000.000	26.62	26.12	52.74	74.00	-21.26	peak



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Test Mode:	40 MHz	Channel:	5829.5 MHz
Polarity:	Vertical	Test Voltage:	DC 7.2 V



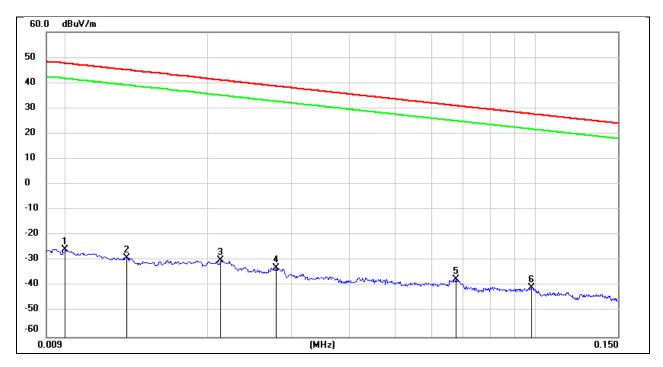
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9233.000	35.53	10.48	46.01	74.00	-27.99	peak
2	10256.000	35.32	12.31	47.63	74.00	-26.37	peak
3	11367.000	32.62	16.22	48.84	74.00	-25.16	peak
4	13908.000	29.30	21.66	50.96	74.00	-23.04	peak
5	17857.000	26.63	25.14	51.77	74.00	-22.23	peak
6	18000.000	25.83	26.12	51.95	74.00	-22.05	peak



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8.4. SPURIOUS EMISSIONS (9 KHZ ~ 30 MHZ)

Test Mode:	3 MHz	Channel:	5727.5 MHz
Polarity:	Loop Antenna Face On To The EUT	Test Voltage:	DC 7.2 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.0100	75.72	-101.40	-25.68	47.60	-73.28	peak
2	0.0134	72.34	-101.39	-29.05	45.06	-74.11	peak
3	0.0212	71.54	-101.35	-29.81	41.07	-70.88	peak
4	0.0279	68.67	-101.38	-32.71	38.69	-71.40	peak
5	0.0675	64.14	-101.56	-37.42	31.02	-68.44	peak
6	0.0981	61.27	-101.78	-40.51	27.77	-68.28	peak



Loop Antenna Face On To The EUT

Test Mode:

Polarity:

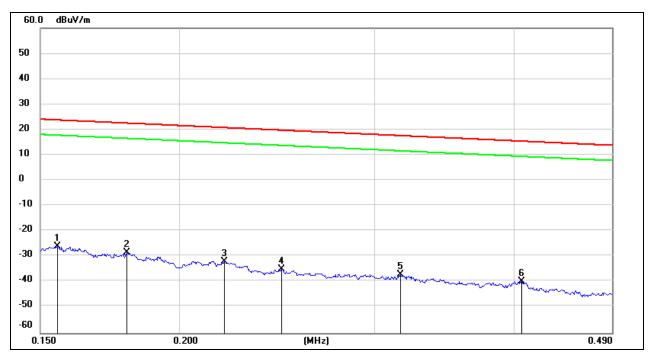
3 MHz

Channel: 5727.5 MHz

DC 7.2 V

Test Voltage:

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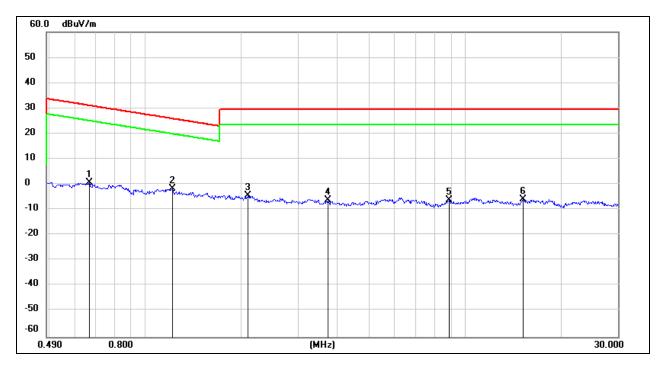


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.1554	75.77	-101.65	-25.88	23.77	-49.65	peak
2	0.1794	73.27	-101.68	-28.41	22.53	-50.94	peak
3	0.2197	69.77	-101.75	-31.98	20.76	-52.74	peak
4	0.2472	66.95	-101.80	-34.85	19.74	-54.59	peak
5	0.3163	64.70	-101.87	-37.17	17.60	-54.77	peak
6	0.4062	62.14	-101.96	-39.82	15.43	-55.25	peak



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Test Mode:	3 MHz	Channel:	5727.5 MHz	
Polarity:	Loop Antenna Face On To The EUT	Test Voltage:	DC 7.2 V	



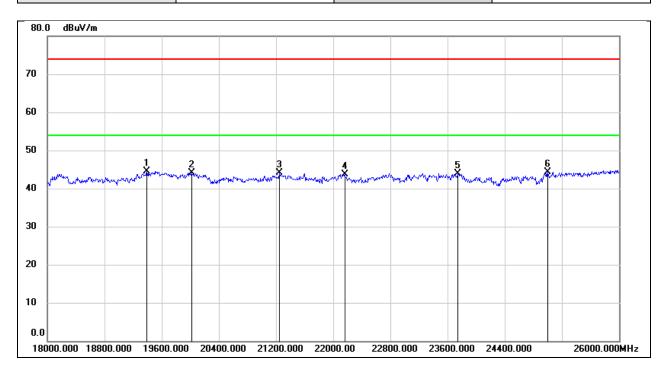
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.6671	62.75	-62.10	0.65	31.12	-30.47	peak
2	1.2157	60.47	-62.17	-1.70	25.91	-27.61	peak
3	2.0939	57.39	-61.79	-4.40	29.54	-33.94	peak
4	3.7100	55.20	-61.41	-6.21	29.54	-35.75	peak
5	8.9001	54.91	-60.95	-6.04	29.54	-35.58	peak
6	15.1859	55.05	-61.01	-5.96	29.54	-35.50	peak



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8.5. SPURIOUS EMISSIONS (18 GHZ ~ 26 GHZ)

Test Mode:	3 MHz	Channel:	5727.5 MHz
Polarity:	Horizontal	Test Voltage:	DC 7.2 V

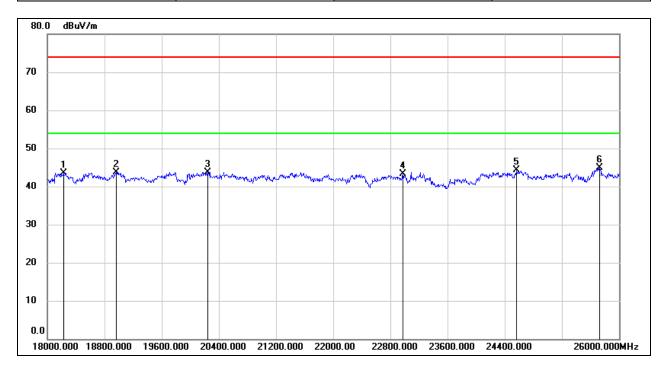


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	19392.000	50.12	-5.57	44.55	74.00	-29.45	peak
2	20016.000	49.56	-5.47	44.09	74.00	-29.91	peak
3	21248.000	48.79	-4.77	44.02	74.00	-29.98	peak
4	22160.000	48.08	-4.31	43.77	74.00	-30.23	peak
5	23744.000	47.15	-3.20	43.95	74.00	-30.05	peak
6	25000.000	46.36	-2.10	44.26	74.00	-29.74	peak



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Test Mode:	st Mode: 3 MHz		5727.5 MHz	
Polarity:	Vertical	Test Voltage:	DC 7.2 V	



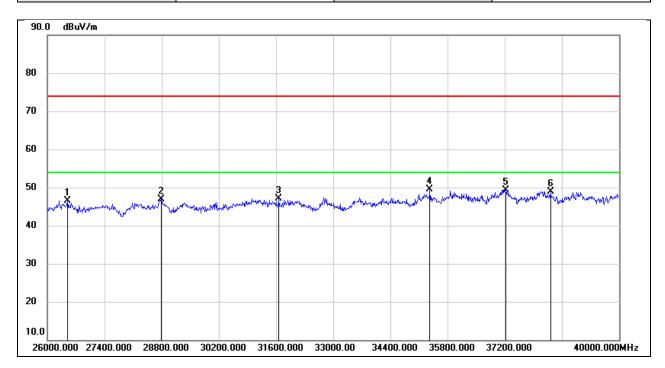
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18224.000	49.08	-5.53	43.55	74.00	-30.45	peak
2	18960.000	49.01	-5.25	43.76	74.00	-30.24	peak
3	20240.000	49.32	-5.61	43.71	74.00	-30.29	peak
4	22976.000	46.76	-3.46	43.30	74.00	-30.70	peak
5	24568.000	46.60	-2.33	44.27	74.00	-29.73	peak
6	25728.000	45.61	-0.72	44.89	74.00	-29.11	peak



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8.6. SPURIOUS EMISSIONS (26 GHZ ~ 40 GHZ)

Test Mode:	3 MHz	Channel:	5727.5 MHz
Polarity:	Horizontal	Test Voltage:	DC 7.2 V

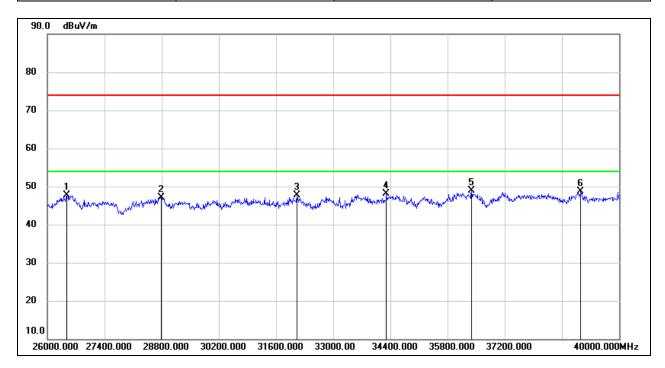


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	26490.000	51.29	-4.74	46.55	74.00	-27.45	peak
2	28786.000	47.49	-0.64	46.85	74.00	-27.15	peak
3	31670.000	48.36	-1.21	47.15	74.00	-26.85	peak
4	35366.000	46.90	2.59	49.49	74.00	-24.51	peak
5	37228.000	46.23	3.14	49.37	74.00	-24.63	peak
6	38320.000	45.06	3.77	48.83	74.00	-25.17	peak



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Test Mode:	3 MHz	Channel:	5727.5 MHz
Polarity:	Vertical	Test Voltage:	DC 7.2 V



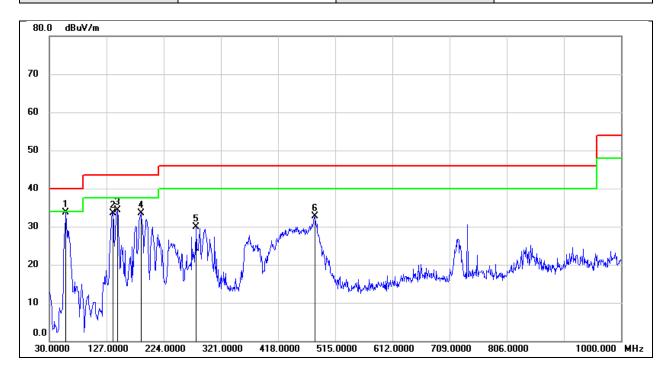
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	26476.000	52.53	-4.78	47.75	74.00	-26.25	peak
2	28786.000	47.77	-0.64	47.13	74.00	-26.87	peak
3	32104.000	49.49	-1.75	47.74	74.00	-26.26	peak
4	34302.000	46.95	1.10	48.05	74.00	-25.95	peak
5	36388.000	45.32	3.52	48.84	74.00	-25.16	peak
6	39062.000	44.48	4.30	48.78	74.00	-25.22	peak



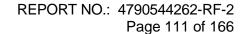
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8.7. SPURIOUS EMISSIONS (30 MHZ ~ 1 GHZ)

Test Mode:	3 MHz	Channel:	5727.5 MHz
Polarity:	Horizontal	Test Voltage:	DC 7.2 V

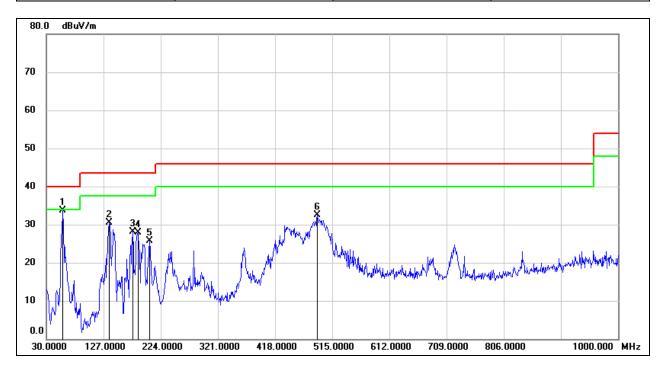


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	58.1300	54.31	-20.55	33.76	40.00	-6.24	QP
2	137.6700	52.40	-18.95	33.45	43.50	-10.05	QP
3	145.4299	52.81	-18.55	34.26	43.50	-9.24	QP
4	185.2000	50.18	-16.75	33.43	43.50	-10.07	QP
5	279.2900	46.62	-16.76	29.86	46.00	-16.14	QP
6	480.0800	44.53	-11.79	32.74	46.00	-13.26	QP





Test Mode:	3 MHz	Channel:	5727.5 MHz
Polarity:	Vertical	Test Voltage:	DC 7.2 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	58.1300	54.32	-20.55	33.77	40.00	-6.23	QP
2	136.7000	49.48	-19.02	30.46	43.50	-13.04	QP
3	176.4700	45.19	-17.02	28.17	43.50	-15.33	QP
4	185.2000	44.63	-16.75	27.88	43.50	-15.62	QP
5	204.6000	42.53	-16.79	25.74	43.50	-17.76	QP
6	489.7800	44.27	-11.70	32.57	46.00	-13.43	QP



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9. AC POWER LINE CONDUCTED EMISSION

LIMITS

Please refer to CFR 47 FCC §15.207 (a).

FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

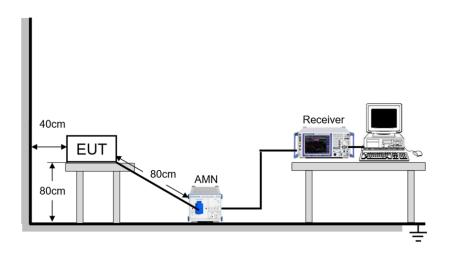
TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 6.2.

The EUT is put on a table of non-conducting material that is 80 cm high. The vertical conducting wall of shielding is located 40 cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10-2013. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9 kHz.

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

TEST SETUP



TEST ENVIRONMENT

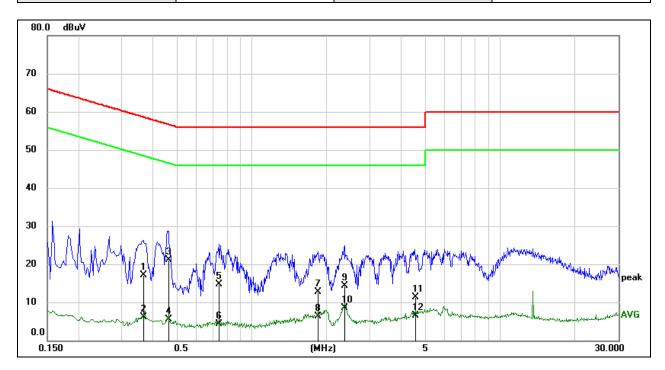
Temperature	23.6 °C	Relative Humidity	53 %
Atmosphere Pressure	101 kPa	Test Voltage	AC 120 V/60 Hz



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TEST RESULTS

Test Mode:	3 MHz	Channel:	5727.5 MHz	
Line	L1	Test Voltage	AC 120 V/60 Hz	



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.3649	7.71	9.43	17.14	58.62	-41.48	QP
2	0.3649	-3.39	9.43	6.04	48.62	-42.58	AVG
3	0.4612	11.73	9.34	21.07	56.67	-35.60	QP
4	0.4612	-3.84	9.34	5.50	46.67	-41.17	AVG
5	0.7356	5.09	9.60	14.69	56.00	-41.31	QP
6	0.7356	-5.36	9.60	4.24	46.00	-41.76	AVG
7	1.8602	3.02	9.62	12.64	56.00	-43.36	QP
8	1.8602	-3.27	9.62	6.35	46.00	-39.65	AVG
9	2.3589	4.66	9.63	14.29	56.00	-41.71	QP
10	2.3589	-1.14	9.63	8.49	46.00	-37.51	AVG
11	4.5824	1.77	9.61	11.38	56.00	-44.62	QP
12	4.5824	-3.17	9.61	6.44	46.00	-39.56	AVG

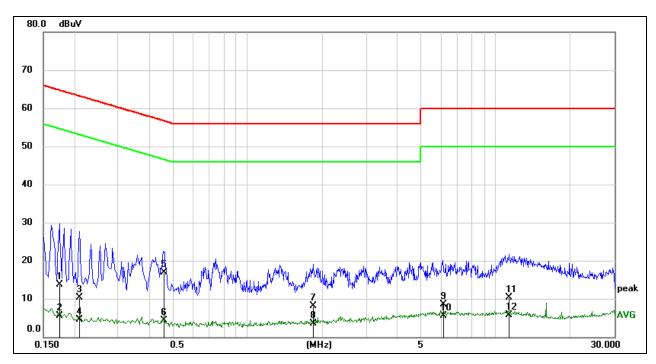
Note:

- 1. Result = Reading + Correct Factor.
- 2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).
- 4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

Note: All the modes have been tested, only the worst data was recorded in the report.

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Test Mode:	3 MHz	Channel:	5727.5 MHz
Line	N	Test Voltage	AC 120 V/60 Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1751	4.19	9.59	13.78	64.71	-50.93	QP
2	0.1751	-4.17	9.59	5.42	54.71	-49.29	AVG
3	0.2088	0.74	9.58	10.32	63.25	-52.93	QP
4	0.2088	-4.98	9.58	4.60	53.25	-48.65	AVG
5	0.4596	7.48	9.34	16.82	56.70	-39.88	QP
6	0.4596	-5.02	9.34	4.32	46.70	-42.38	AVG
7	1.8387	-1.52	9.62	8.10	56.00	-47.90	QP
8	1.8387	-6.12	9.62	3.50	46.00	-42.50	AVG
9	6.1382	-1.15	9.64	8.49	60.00	-51.51	QP
10	6.1382	-4.17	9.64	5.47	50.00	-44.53	AVG
11	11.2593	0.65	9.74	10.39	60.00	-49.61	QP
12	11.2593	-4.09	9.74	5.65	50.00	-44.35	AVG

Note:

- 1. Result = Reading + Correct Factor.
- 2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).
- 4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

Note: All the modes have been tested, only the worst data was recorded in the report.



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ANTENNA REQUIREMENT

APPLICABLE REQUIREMENTS

Please refer to FCC §15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Please refer to FCC §15.407(a)(1)(2)(3)

If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi..

RESULTS

Complies



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11. TEST DATA

11.1. APPENDIX A1: DTS BANDWIDTH

11.1.1. Test Result

Test Mode	Antenna	Channel	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
1.4 MHz	Ant0	5728.5	1.10	5727.94	5729.05	≥0.5	PASS
	Ant1	5728.5	1.10	5727.94	5729.04	≥0.5	PASS
	Ant0	5786.5	1.09	5785.95	5787.04	≥0.5	PASS
	Ant1	5786.5	1.11	5785.94	5787.04	≥0.5	PASS
	Ant0	5846.5	1.09	5845.95	5847.04	≥0.5	PASS
	Ant1	5846.5	1.10	5845.94	5847.04	≥0.5	PASS
1.4 MHz CA	Ant0	5730.12	1.09	5729.56	5730.66	≥0.5	PASS
	Ant1	5730.12	1.10	5729.56	5730.66	≥0.5	PASS
	Ant0	5788.12	1.09	5787.57	5788.66	≥0.5	PASS
	Ant1	5788.12	1.11	5787.56	5788.67	≥0.5	PASS
	Ant0	5848.12	1.10	5847.56	5848.66	≥0.5	PASS
	Ant1	5848.12	1.10	5847.56	5848.66	≥0.5	PASS

Test Mode	Antenna	Channel	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
3 MHz	Ant0	5727.5	2.18	5726.41	5728.58	≥0.5	PASS
	Ant1	5727.5	2.18	5726.41	5728.59	≥0.5	PASS
	Ant0	5784.5	2.18	5783.41	5785.59	≥0.5	PASS
	Ant1	5784.5	2.18	5783.41	5785.59	≥0.5	PASS
	Ant0	5844.5	2.18	5843.41	5845.59	≥0.5	PASS
	Ant1	5844.5	2.18	5843.41	5845.59	≥0.5	PASS
3 MHz CA	Ant0	5730.2	2.18	5729.11	5731.28	≥0.5	PASS
	Ant1	5730.2	2.18	5729.11	5731.29	≥0.5	PASS
	Ant0	5787.2	2.18	5786.11	5788.29	≥0.5	PASS
	Ant1	5787.2	2.19	5786.11	5788.29	≥0.5	PASS
	Ant0	5847.2	2.18	5846.11	5848.29	≥0.5	PASS
	Ant1	5847.2	2.18	5846.11	5848.29	≥0.5	PASS

Test Mode	Antenna	Channel	6db BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
10 MHz	Ant0	5730.5	9.02	5725.98	5735.00	≥0.5	PASS
	Ant1	5730.5	9.00	5726.00	5735.00	≥0.5	PASS
	Ant0	5787.5	9.00	5783.00	5792.00	≥0.5	PASS
	Ant1	5787.5	9.02	5782.98	5792.00	≥0.5	PASS
	Ant0	5844.5	8.98	5840.00	5848.98	≥0.5	PASS
	Ant1	5844.5	9.02	5839.98	5849.00	≥0.5	PASS
20 MHz	Ant0	5735.5	18.00	5726.50	5744.50	≥0.5	PASS
	Ant1	5735.5	18.00	5726.50	5744.50	≥0.5	PASS
	Ant0	5787.5	18.00	5778.50	5796.50	≥0.5	PASS
	Ant1	5787.5	17.96	5778.50	5796.46	≥0.5	PASS
	Ant0	5839.5	17.96	5830.50	5848.46	≥0.5	PASS
	Ant1	5839.5	17.96	5830.50	5848.46	≥0.5	PASS
40 MHz	Ant0	5745.5	36.00	5727.50	5763.50	≥0.5	PASS
	Ant1	5745.5	35.92	5727.50	5763.42	≥0.5	PASS
	Ant0	5787.5	36.00	5769.50	5805.50	≥0.5	PASS
	Ant1	5787.5	35.92	5769.50	5805.42	≥0.5	PASS
	Ant0	5829.5	36.00	5811.50	5847.50	≥0.5	PASS
	Ant1	5829.5	36.00	5811.50	5847.50	≥0.5	PASS



11.1.2. Test Graphs

