



CFR 47 FCC PART 15 SUBPART E

TEST REPORT

For

DJI Relay

MODEL NUMBER: RL01-65

REPORT NUMBER: 4790741213-RF-2

ISSUE DATE: March 30, 2023

FCC ID: SS3-RL016523

Prepared for

SZ DJI TECHNOLOGY CO., LTD Lobby of T2, DJI Sky City, No. 53 Xianyuan Road, Xili Community, Xili Street, Nanshan District, Shenzhen, China

Prepared by

UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch

Building 10, Innovation Technology Park, No. 1, Li Bin Road, Song Shan Lake Hi-Tech Development Zone Dongguan, 523808, People's Republic of China

> Tel: +86 769 22038881 Fax: +86 769 33244054 Website: www.ul.com

The results reported herein have been performed in accordance with the laboratory's terms of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory. The results in this report apply to the test sample(s) mentioned above at the time of the testing period only and are not to be used to indicate applicability to other similar products.



REPORT NO.: 4790741213-RF-2 Page 2 of 179

Revision History

Rev.	Issue Date	Revisions	Revised By
V0	March 30, 2023	Initial Issue	



REPORT NO.: 4790741213-RF-2 Page 3 of 179

	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.

REPORT NO.: 4790741213-RF-2 Page 4 of 179

CONTENTS

1.	ATTES	STATION OF TEST RESULTS	6
2.	TEST I	METHODOLOGY	7
3.	FACIL	TIES AND ACCREDITATION	7
4.	CALIB	RATION AND UNCERTAINTY	8
4	<i>1</i> .1.	MEASURING INSTRUMENT CALIBRATION	8
4	1.2.	MEASUREMENT UNCERTAINTY	8
5.	EQUIP	MENT UNDER TEST	9
Ę	5.1.	DESCRIPTION OF EUT	9
Ę	5.2.	CHANNEL LIST	9
Ę	5.3.	MAXIMUM OUTPUT POWER	14
5	5.4.	TEST CHANNEL CONFIGURATION	15
Ę	5.5.	THE WORSE CASE POWER SETTING PARAMETER	15
5	5.6.	DESCRIPTION OF AVAILABLE ANTENNAS	16
5	5.7.	THE WORSE CASE CONFIGURATIONS	17
5	5.8.	DESCRIPTION OF TEST SETUP	18
6.	MEAS	URING EQUIPMENT AND SOFTWARE USED	19
7.	ANTEN	INA PORT TEST RESULTS	21
7	7.1.	ON TIME AND DUTY CYCLE	21
7	7.2.	6DB AND 26DB EMISSION BANDWIDTH AND 99% OCCUPIED BANDWIDTH	1 22
7	7.3.	OUTPUT POWER	25
7	7.4.	POWER SPECTRAL DENSITY	27
7	7.5.	FREQUENCY STABILITY	29
8.	RADIA	TED TEST RESULTS	31
8	3.1.	RESTRICTED BANDEDGE	40
8	3.2.	SPURIOUS EMISSIONS (1 GHZ ~ 7 GHZ)	54
8	3.3.	SPURIOUS EMISSIONS (7 GHZ ~ 18 GHZ)	60
8	3.4.	SPURIOUS EMISSIONS (9 KHZ ~ 30 MHZ)	102
8	3.5.	SPURIOUS EMISSIONS (18 GHZ ~ 26 GHZ)	105
8	3.6.	SPURIOUS EMISSIONS (26 GHZ ~ 40 GHZ)	107
8	3.7.	SPURIOUS EMISSIONS (30 MHZ ~ 1 GHZ)	109
9.	AC PO	WER LINE CONDUCTED EMISSION	111



REPORT NO.: 4790741213-RF-2 Page 5 of 179

10.	ANTENNA REQUIREMENT	114
11.	TEST DATA	115
11.1. 11.1.1. 11.1.2.	Test Result	115
<i>11.2.</i> 11.2.1. 11.2.2.		141
<i>11.3.</i> 11.3.1.	APPENDIX B: MAXIMUM AVERAGE OUTPUT POWER	
<i>11.4.</i> 11.4.1. 11.4.2.	Test Result	160
<i>11.5.</i> 11.5.1. 11.5.2.		175
<i>11.6.</i> 11.6.1.	APPENDIX E: FREQUENCY STABILITY Test Result	



REPORT NO.: 4790741213-RF-2 Page 6 of 179

1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: SZ DJI TECHNOLOGY CO., LTD

Address: Lobby of T2, DJI Sky City, No. 53 Xianyuan Road, Xili

Community, Xili Street, Nanshan District, Shenzhen, China

Manufacturer Information

Company Name: SZ DJI TECHNOLOGY CO., LTD

Address: Lobby of T2, DJI Sky City, No. 53 Xianyuan Road, Xili

Community, Xili Street, Nanshan District, Shenzhen, China

EUT Information

EUT Name: DJI Relay Model: RL01-65

Sample Received Date: February 24, 2023

Sample ID: 5825096

Date of Tested: February 28, 2023 to March 28, 2023

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

Prepared By: Checked By:

Denny Grany

kelo. Thang

Denny Huang Kebo Zhang

Senior Project Engineer Senior Project Engineer

Approved By:

Stephen Guo

Operations Manager



REPORT NO.: 4790741213-RF-2 Page 7 of 179

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.



Page 8 of 179

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)		
Duty Cycle	±0.028%		
Emission Bandwidth and 99% Occupied Bandwidth	±0.0196%		
Maximum Conducted Output Power	±0.766 dB		
Maximum Power Spectral Density Level	±1.22 dB		
Frequency Stability	±2.76%		
Conducted Band-edge Compliance	±1.328 dB		
Conducted Unwanted Emissions In Non-restricted	±0.746 dB (9 kHz ~ 1 GHz)		
Frequency Bands	±1.328dB (1 GHz ~ 26 GHz)		

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

Page 9 of 179

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name	DJI Relay
Model	RL01-65
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

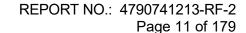
5.2. CHANNEL LIST

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	1	
14	5754.5	30	5786.5	46	5818.5	1	1	
15	5756.5	31	5788.5	47	5820.5	1	1	
16	5758.5	32	5790.5	48	5822.5	1	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	1	
14	5756.12	30	5788.12	46	5820.12	1	1	
15	5758.12	31	5790.12	47	5822.12	1	/	
16	5760.12	32	5792.12	48	5824.12	1	1	

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 4 14 5769.2 5799.2 5829.2 5739.2 24 34 5742.2 5802.2 5832.2 5 15 5772.2 25 35 6 5745.2 16 5775.2 26 5805.2 5835.2 36 7 5778.2 5748.2 17 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	1	1	



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	1	1	
26	5760.5	53	5787.5	80	5814.5	1	1	
27	5761.5	54	5788.5	81	5815.5	1	1	



	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	1	1		
21	5765.5	43	5787.5	65	5809.5	1	1		
22	5766.5	44	5788.5	66	5810.5	1	1		

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	25.66
1.4 MHz CA Mode	5730.12 MHz ~ 5848.12 MHz	25.47
3 MHz Mode	5727.5 MHz ~ 5844.5 MHz	25.57
3 MHz CA Mode	5730.2 MHz ~ 5847.2 MHz	25.77
10 MHz Mode	5730.5 MHz ~ 5844.5 MHz	25.43
20 MHz Mode	5735.5 MHz ~ 5839.5 MHz	25.32
40 MHz Mode	5745.5 MHz ~ 5829.5 MHz	20.73



Page 15 of 179

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	The Worse Case Power Setting Parameter under 5728.5 ~ 5848.12 MHz Band							
Test So	ftware	DjiSdrConsole						
	Transmit Antenna Number	Test Software setting value						
Modulation Mode		NCB: 1.4 MHz/1.4 MHz CA) MHz/20 MHz/40 MHz					
Wiode		Low Channel	MID Channel	High Channel				
All	All	Default	Default	Default				



Page 16 of 179

DESCRIPTION OF AVAILABLE ANTENNAS

Antenna	Frequency (MHz)	Antenna Type	Maximum Antenna Gain (dBi)
0	5728.5 ~ 5848.12	Dipole	4.5
1	5728.5 ~ 5848.12	Dipole	4.5
2	5728.5 ~ 5848.12	Dipole	4.5
3	5728.5 ~ 5848.12	Dipole	4.5

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 = 4.5 dBi

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

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

For power spectral density (PSD) measurements:

Directional gain= GANT + Array Gain = 4.5 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		
	Neceive Mode			
1.4 MHz	M OTV ADV	ANT 0,1 / 0,3 / 2,1 / 2,3 can be used as transmitting antenna.		
Mode	⊠ 2TX, 4RX	ANT 0,1, 2, 3 can be used as receiving antenna.		
1.4 MHz CA	⊠ 2TX, 4RX	ANT 0,1 / 0,3 / 2,1 / 2,3 can be used as transmitting antenna.		
Mode	∠ ∠ 1 ∧, 4 K ∧	ANT 0,1, 2, 3 can be used as receiving antenna.		
3 MHz Mode	⊠ 2TX, 4RX	ANT 0,1 / 0,3 / 2,1 / 2,3 can be used as transmitting antenna.		
3 IVIHZ IVIOGE	∠ 21X, 4RX	ANT 0,1, 2, 3 can be used as receiving antenna.		
3 MHz CA	⊠ 2TX, 4RX	ANT 0,1 / 0,3 / 2,1 / 2,3 can be used as transmitting antenna.		
Mode	∠ ∠ 1 ∧, 4 K ∧	ANT 0,1, 2, 3 can be used as receiving antenna.		
10 MHz	⊠ 2TX, 4RX	ANT 0,1 / 0,3 / 2,1 / 2,3 can be used as transmitting antenna.		
Mode	∠ 17, 4KA	ANT 0,1, 2, 3 can be used as receiving antenna.		
20 MHz	⊠ 2TX, 4RX	ANT 0,1 / 0,3 / 2,1 / 2,3 can be used as transmitting antenna.		
Mode	∠ 1 ∧, 4 K ∧	ANT 0,1, 2, 3 can be used as receiving antenna.		
40 MHz	☐ 2TX, 4RX	ANT 0,1 / 0,3 / 2,1 / 2,3 can be used as transmitting antenna.		
Mode	∠ 1 ∧, 4 ∧ ∧	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.



Page 17 of 179

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/ antenna 0 and antenna 3/ antenna 2 and antenna 1/ antenna 2 and antenna 3 used as transmit antennas and all the 4 antennas can use as receive antennas, all the transmit combination(ANT0 and ANT1 / ANT0 and ANT3 / ANT2 and ANT1 / ANT2 and ANT3) had been tested, but only the worst data was recorded in the report.

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.



Page 18 of 179

5.8. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

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

I/O CABLES

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

ACCESSORIES

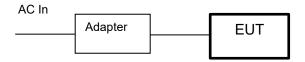
Item	Accessory	Brand Name	Model Name	Description
1	Adapter	1	PD-30CN	Input: AC 100 ~ 240 V, 50/60 Hz Output: DC 5 V, 3 A

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:



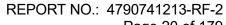


Page 19 of 179

6. MEASURING EQUIPMENT AND SOFTWARE USED

R&S TS 8997 Test System									
Equipment		Manufacturer		Model	No.	Serial No.	Last C	Cal.	Due. Date
Power sensor, Power M	1eter	R&S	3	OSP1	20	100921	Apr.02,2	2022	Apr.01,2023
Vector Signal Genera	tor	R&S	3	SMBV1	00A	261637	Oct.17,	2022	Oct.16, 2023
Signal Generator		R&S	6	SMB10	A00	178553	Oct.17,	2022	Oct.16, 2023
Signal Analyzer		R&S	3	FSV4	.0	101118	Oct.17,	2022	Oct.16, 2023
				Software	е				
Description			Manu	facturer		Nam	ne		Version
For R&S TS 8997 Test	Syste	m Ro	hde 8	k Schwar	Z	EMC	32		10.60.10
Tonsend RF Test System									
Equipment	Man	ufacturer	Мо	del No.	S	Serial No.	Last 0	Cal.	Due. Date
PXA Signal Analyzer	Ke	ysight	NS	9030A	MY	′55410512	Oct.17,	2022	Oct.16, 2023
MXG Vector Signal Generator	Ke	ysight	N5	5182B	MY	′56200284	Oct.17,	2022	Oct.16, 2023
MXG Vector Signal Generator	Ke	ysight	N5	5172B	MY	′56200301	Oct.17,	2022	Oct.16, 2023
DC power supply	Ke	ysight	E3	8642A	MY	′55159130	Oct.17,	2022	Oct.16, 2023
Temperature & Humidity Chamber						2088	Oct.17,	2022	Oct.16, 2023
Attenuator	А	gilent	84	495B	28	14a12853	Oct.18,	2022	Oct.17, 2023
				Softwar	е				
Description		Manufac	turer	Name Ve			Version		
Tonsend SRD Test System Tonsend			JS11	120-3	3 RF Test S	ystem	2	.6.77.0518	

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				
	Software								
	Description		Manufacturer	Name	Version				
Test Software	for Conducted	Emissions	Farad	EZ-EMC	Ver. UL-3A1				





Page 20 of 179

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	00008	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	1	1
Band Reject Filter	Wainwright	WRCJV12- 5695-5725- 5850-5880- 40SS	4	/	/
Band Reject Filter	Wainwright	WRCJV20- 5120-5150- 5350-5380- 60SS	2	/	/
Band Reject Filter	Wainwright	WRCJV20- 5440-5470- 5725-5755- 60SS	1	1	1
Software					
[Description			Name	Version
Test Software for Radiated Emissions			Farad	EZ-EMC	Ver. UL-3A1



Page 21 of 179

7. ANTENNA PORT TEST RESULTS

7.1. ON TIME AND DUTY CYCLE

LIMITS

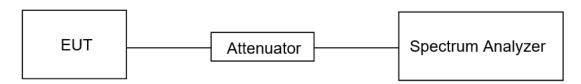
None; for reporting purposes only.

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



Page 22 of 179

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	
26 dB Emission Bandwidth	For reporting purposes only.	5250 ~ 5350	
26 dB Emission Bandwidth	For reporting purposes only.	5470 ~ 5725 (For FCC)	
6 dB Emission Bandwidth	The minimum 6 dB emission bandwidth shall be 500 kHz.	5725 ~ 5850	
99 % Occupied Bandwidth	For reporting purposes only.	5150 ~ 5825 (For ISED)	

TEST PROCEDURE

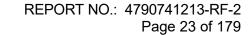
Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.C1. for 26 dB Emission Bandwidth; section II.C2. for 6 dB Emission Bandwidth; section II.D. for 99 % Occupied Bandwidth.

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

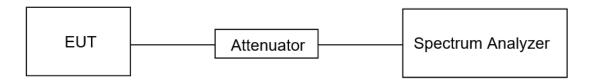
a) Use the 99 % power bandwidth function of the instrument, allow the trace to stabilize and report the measured bandwidth.

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





Page 24 of 179

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



Page 25 of 179

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.

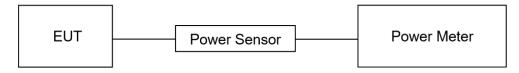
TEST PROCEDURE

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



Page 26 of 179

TEST RESULTS

Please refer to section "Test Data" - Appendix B



Page 27 of 179

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:

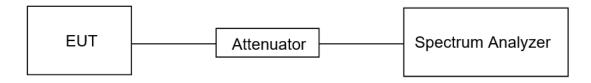
For U-NII-3:

1 01 0 1111 0.	
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





Page 28 of 179

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



Page 29 of 179

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

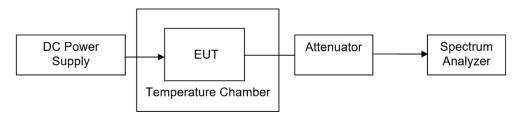
- 4. While maintaining a constant temperature inside the environmental chamber, turn the EUT on and record the operating frequency at startup, and at 2 minutes, 5minutes, and 10 minutes after the EUT is energized.
- 5. Allow the trace to stabilize, find the peak value of the power envelope and record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

TEST ENVIRONMENT

Normal Test Conditions		Extreme Test Conditions	
Relative Humidity	20 % ~ 75 %	1	
Atmospheric Pressure	100 kPa ∼102 kPa	1	
Tomporatura	T _N (Normal Temperature):	T _∟ (Low Temperature): 0 °C	
Temperature	25.1 °C	T _н (High Temperature): 40 °C	
Supply Voltage	V _N (Normal Voltage): DC 7.2 V	V _∟ (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



Page 31 of 179

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-l	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

Page 32 of 179

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	PIRPLIMIT	Field Strength Limit
(MHz)		(dBuV/m) at 3 m
5150~5250 MHz	PK: -27 (dBm/MHz)	PK:68.2(dBµV/m)
5725~5850 MHz	PK: -27 (dBm/MHz) *1	PK: 68.2(dBµV/m) *1
	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.



Page 33 of 179

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.



Page 34 of 179

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.



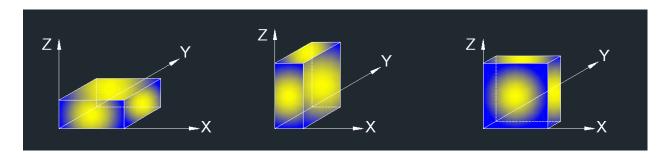
Above 1 GHz

The setting of the spectrum analyzer

RBW	1 MHz
IVRW	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.



Page 36 of 179

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):

- 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.



REPORT NO.: 4790741213-RF-2 Page 37 of 179

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):

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. All modes, channels and antennas have been tested, only the worst data was recorded in the report.

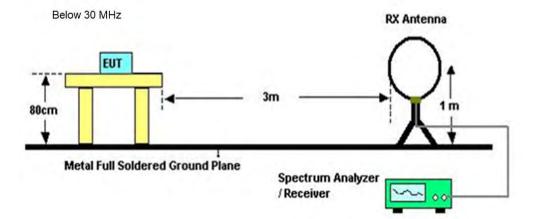
For Radiate Spurious emission (26 GHz ~ 40 GHz):

Note:

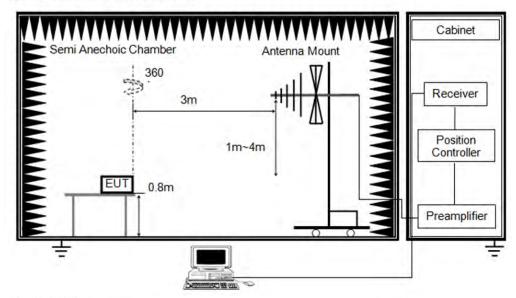
- 1. Measurement = Reading Level + Correct Factor.
- 2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
- 3. Peak: Peak detector.
- 4. All modes, channels and antennas have been tested, only the worst data was recorded in the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



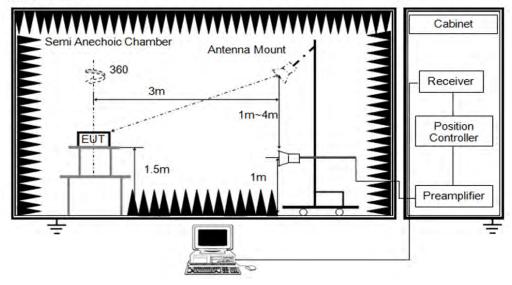
TEST SETUP



Below 1 GHz and above 30 MHz



Above 1 GHz





REPORT NO.: 4790741213-RF-2

Page 39 of 179

TEST ENVIRONMENT

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

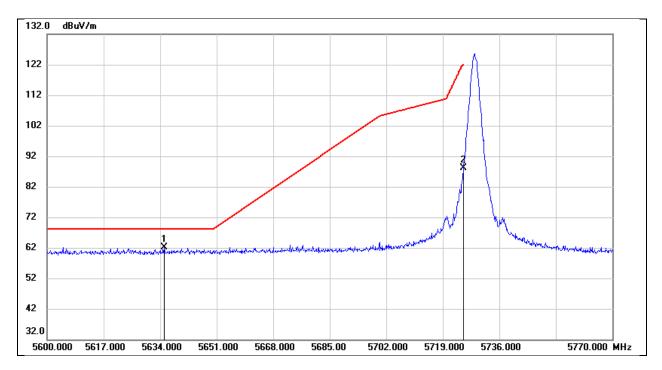
TEST RESULTS



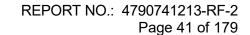
REPORT NO.: 4790741213-RF-2 Page 40 of 179

8.1. RESTRICTED BANDEDGE

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

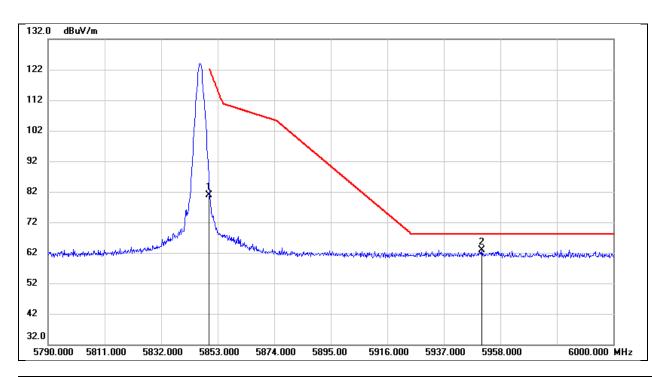


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5635.190	24.09	38.03	62.12	68.20	-6.08	peak
2	5725.000	49.97	38.27	88.24	122.20	-33.96	peak

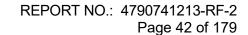




Test Mode:	1.4 MHz PEAK	Channel:	5846.5 MHz
Polarity:	Horizontal	Test Voltage:	DC 7.2 V

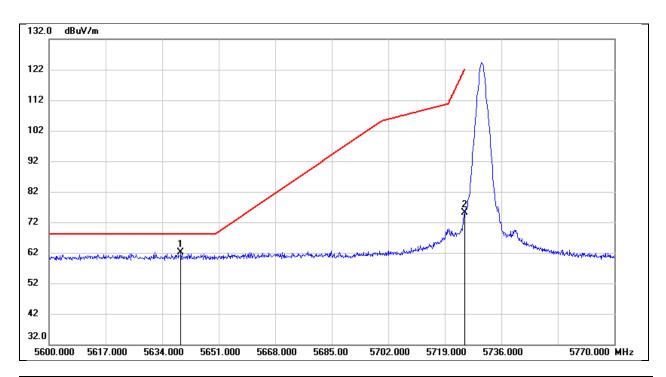


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5850.000	42.40	38.60	81.00	122.20	-41.20	peak
2	5951.070	23.97	38.87	62.84	68.20	-5.36	peak





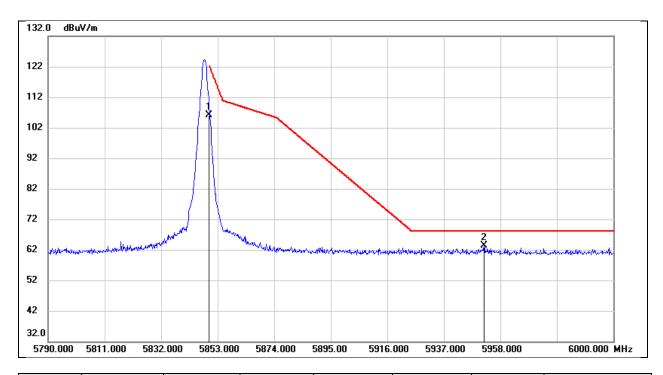
Test Mode:	1.4 MHz CA PEAK	Channel:	5730.12 MHz
Polarity:	Horizontal	Test Voltage:	DC 7.2 V



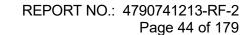
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5639.610	24.02	38.03	62.05	68.20	-6.15	peak
2	5725.000	36.87	38.27	75.14	122.20	-47.06	peak



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

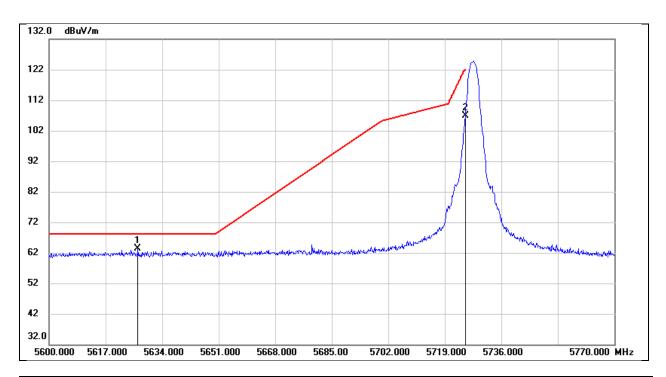


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5850.000	67.58	38.60	106.18	122.20	-16.02	peak
2	5951.910	24.54	38.87	63.41	68.20	-4.79	peak

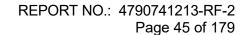




Test Mode:	3 MHz PEAK	Channel:	5727.5 MHz
Polarity:	Horizontal	Test Voltage:	DC 7.2 V

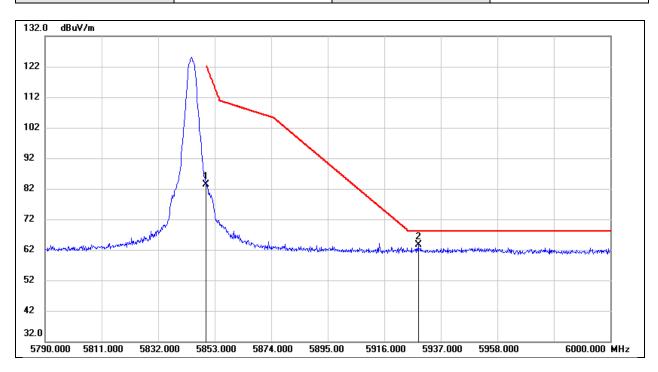


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5626.690	25.39	38.00	63.39	68.20	-4.81	peak
2	5725.000	68.71	38.27	106.98	122.20	-15.22	peak

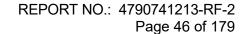




Test Mode: 3 MHz PEAK Channel: 5844.5 MHz
Polarity: Horizontal Test Voltage: DC 7.2 V

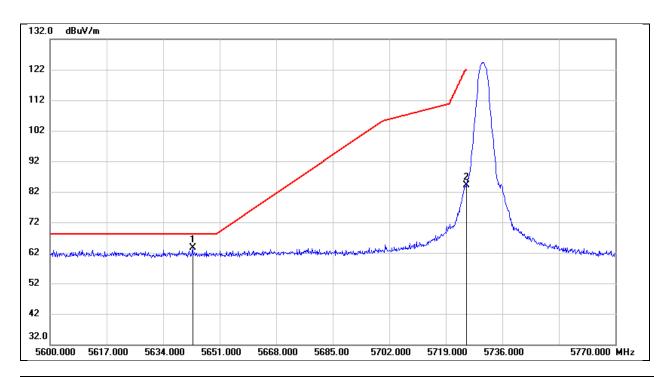


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5850.000	44.76	38.60	83.36	122.20	-38.84	peak
2	5928.600	24.81	38.81	63.62	68.20	-4.58	peak

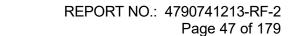




Test Mode:	3 MHz CA PEAK	Channel:	5730.2 MHz
Polarity:	Horizontal	Test Voltage:	DC 7.2 V

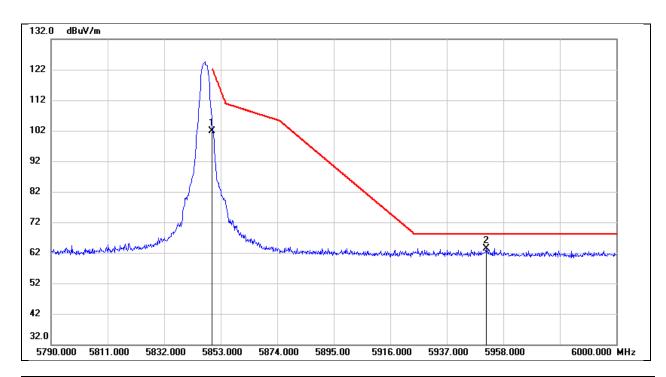


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5642.840	25.55	38.04	63.59	68.20	-4.61	peak
2	5725.000	45.79	38.27	84.06	122.20	-38.14	peak

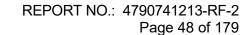




Test Mode:	3 MHz CA PEAK	Channel:	5847.2 MHz
Polarity:	Horizontal	Test Voltage:	DC 7.2 V

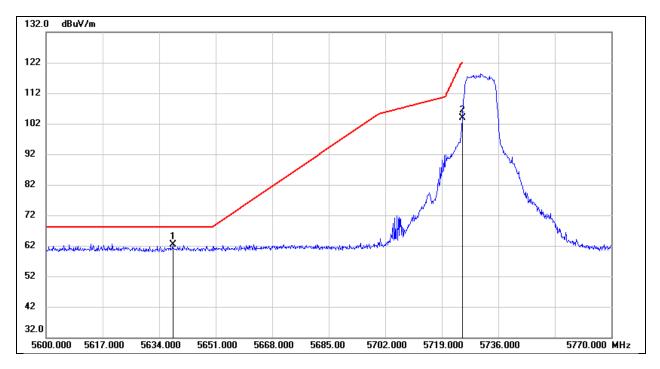


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5850.000	63.22	38.60	101.82	122.20	-20.38	peak
2	5951.700	24.50	38.87	63.37	68.20	-4.83	peak





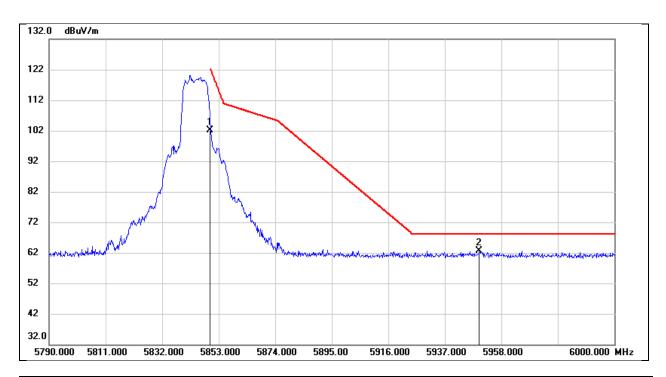
Test Mode:	10 MHz PEAK	Channel:	5730.5 MHz
Polarity:	Horizontal	Test Voltage:	DC 7.2 V



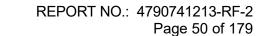
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5638.080	24.23	38.03	62.26	68.20	-5.94	peak
2	5725.000	65.66	38.27	103.93	122.20	-18.27	peak



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

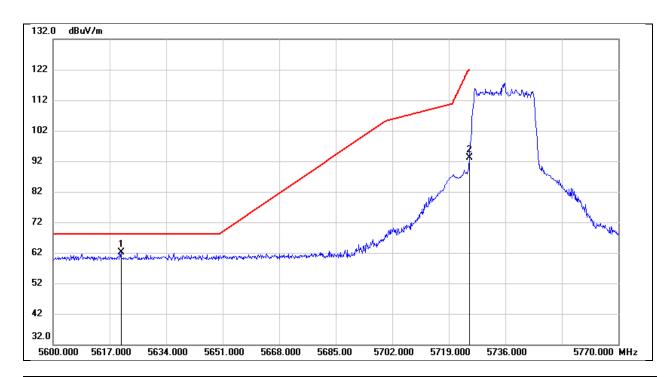


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5850.000	63.58	38.60	102.18	122.20	-20.02	peak
2	5949.810	23.86	38.87	62.73	68.20	-5.47	peak

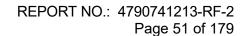




Test Mode: 20 MHz PEAK Channel: 5735.5 MHz
Polarity: Horizontal Test Voltage: DC 7.2 V

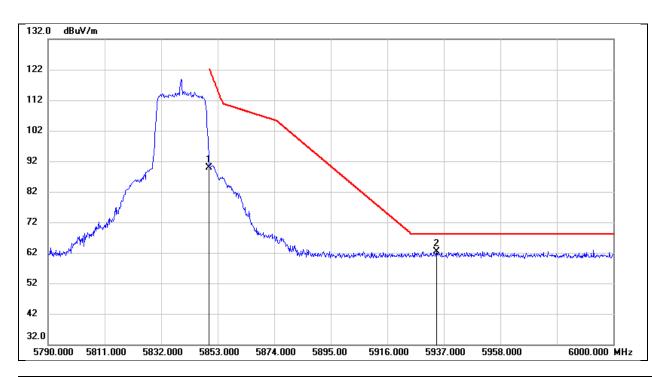


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5620.400	24.07	37.98	62.05	68.20	-6.15	peak
2	5725.000	54.86	38.27	93.13	122.20	-29.07	peak

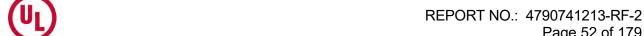




Test Mode:	20 MHz PEAK	Channel:	5839.5 MHz
Polarity:	Horizontal	Test Voltage:	DC 7.2 V

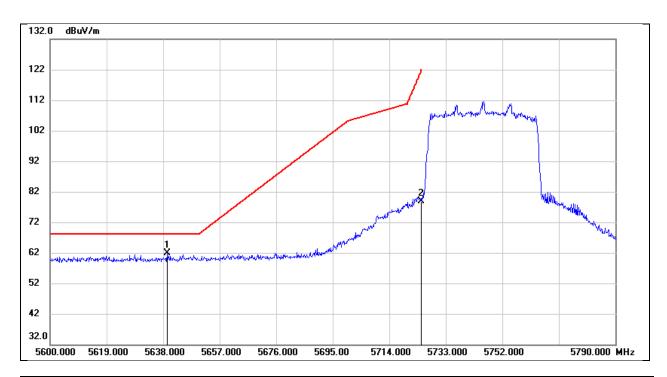


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5850.000	51.26	38.60	89.86	122.20	-32.34	peak
2	5934.270	23.61	38.82	62.43	68.20	-5.77	peak



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

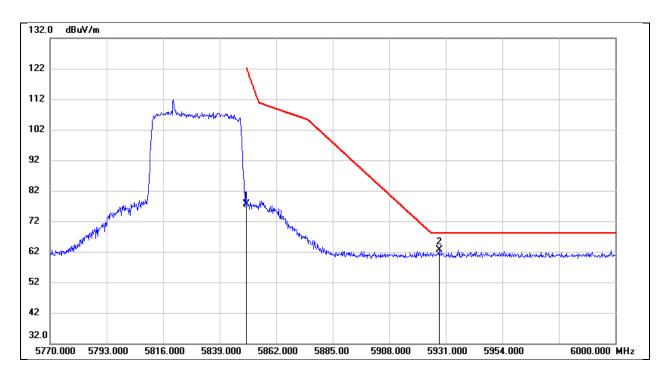
Page 52 of 179



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5639.330	23.89	38.03	61.92	68.20	-6.28	peak
2	5725.000	40.58	38.27	78.85	122.20	-43.35	peak



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



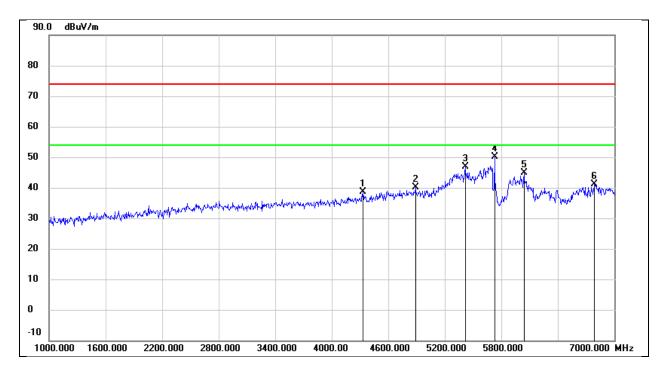
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5850.000	39.10	38.60	77.70	122.20	-44.50	peak
2	5928.240	23.80	38.81	62.61	68.20	-5.59	peak



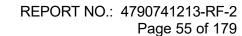
REPORT NO.: 4790741213-RF-2 Page 54 of 179

8.2. SPURIOUS EMISSIONS (1 GHZ ~ 7 GHZ)

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

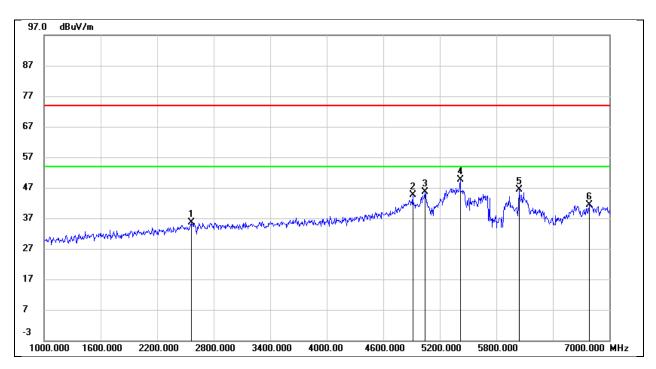


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4330.000	41.66	-2.94	38.72	74.00	-35.28	peak
2	4888.000	40.65	-0.60	40.05	74.00	-33.95	peak
3	5416.000	46.55	0.32	46.87	74.00	-27.13	peak
4	5730.200	48.98	1.07	50.05	/	/	Fundamental
5	6040.000	42.89	1.99	44.88	74.00	-29.12	peak
6	6790.000	35.92	5.15	41.07	74.00	-32.93	peak





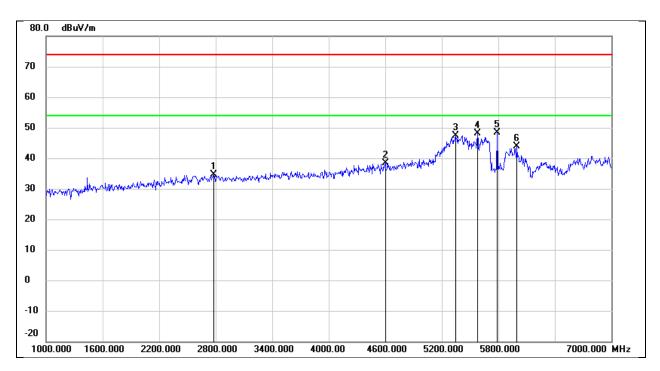
Test Mode:	3 MHz CA	Channel:	5730.2 MHz
Polarity:	Vertical	Test Voltage:	DC 7.2 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2560.000	43.88	-8.31	35.57	74.00	-38.43	peak
2	4912.000	45.10	-0.50	44.60	74.00	-29.40	peak
3	5044.000	45.83	-0.10	45.73	74.00	-28.27	peak
4	5416.000	49.38	0.32	49.70	74.00	-24.30	peak
5	6040.000	44.42	1.99	46.41	74.00	-27.59	peak
6	6790.000	36.33	5.15	41.48	74.00	-32.52	peak



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

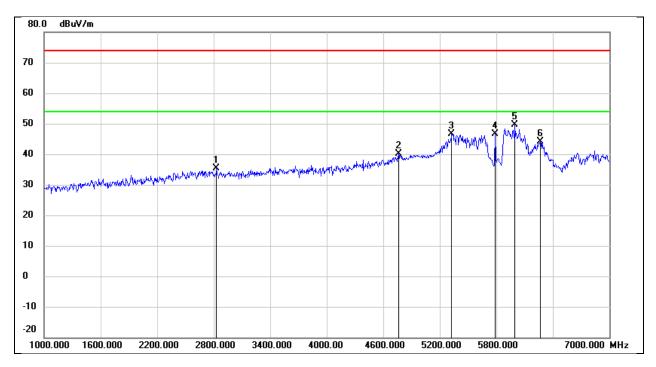


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2776.000	42.26	-7.66	34.60	74.00	-39.40	peak
2	4600.000	40.16	-1.74	38.42	74.00	-35.58	peak
3	5344.000	47.25	0.24	47.49	74.00	-26.51	peak
4	5578.000	47.48	0.65	48.13	74.00	-25.87	peak
5	5787.200	47.12	1.25	48.37	1	/	Fundamental
6	5998.000	41.93	1.85	43.78	74.00	-30.22	peak





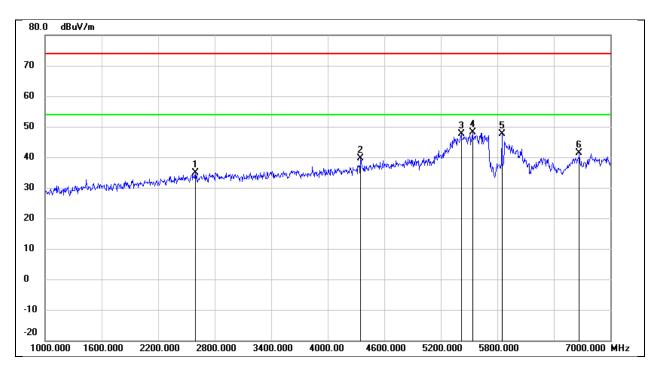
Test Mode:	3 MHz CA	Channel:	5787.2 MHz
Polarity:	Vertical	Test Voltage:	DC 7.2 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2830.000	42.76	-7.50	35.26	74.00	-38.74	peak
2	4762.000	41.19	-1.10	40.09	74.00	-33.91	peak
3	5326.000	46.46	0.22	46.68	74.00	-27.32	peak
4	5787.200	45.49	1.25	46.74	/	/	Fundamental
5	5998.000	47.81	1.85	49.66	74.00	-24.34	peak
6	6268.000	41.32	2.85	44.17	74.00	-29.83	peak



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

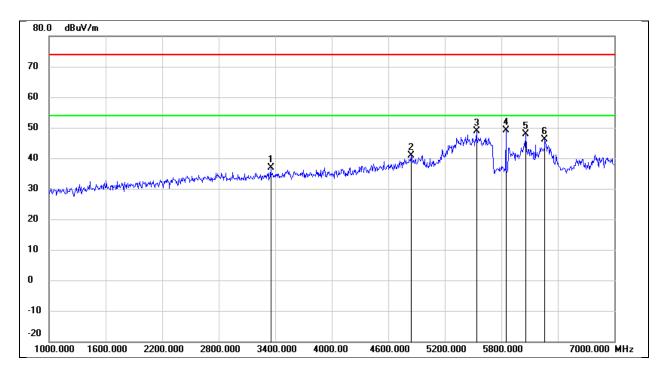


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2596.000	43.13	-8.20	34.93	74.00	-39.07	peak
2	4348.000	42.45	-2.85	39.60	74.00	-34.40	peak
3	5416.000	47.30	0.32	47.62	74.00	-26.38	peak
4	5536.000	47.60	0.52	48.12	74.00	-25.88	peak
5	5847.200	46.19	1.41	47.60	1	/	Fundamental
6	6670.000	36.77	4.57	41.34	74.00	-32.66	peak



REPORT NO.: 4790741213-RF-2 Page 59 of 179

Test Mode:	3 MHz CA	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	3352.000	43.04	-6.19	36.85	74.00	-37.15	peak
2	4840.000	41.74	-0.78	40.96	74.00	-33.04	peak
3	5536.000	48.25	0.52	48.77	74.00	-25.23	peak
4	5847.200	47.62	1.41	49.03	/	/	Fundamental
5	6058.000	45.87	2.06	47.93	74.00	-26.07	peak
6	6262.000	43.19	2.83	46.02	74.00	-27.98	peak

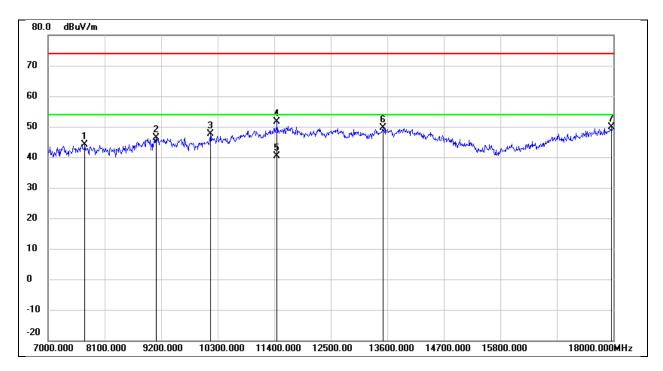


REPORT NO.: 4790741213-RF-2

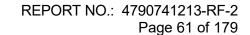
Page 60 of 179

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

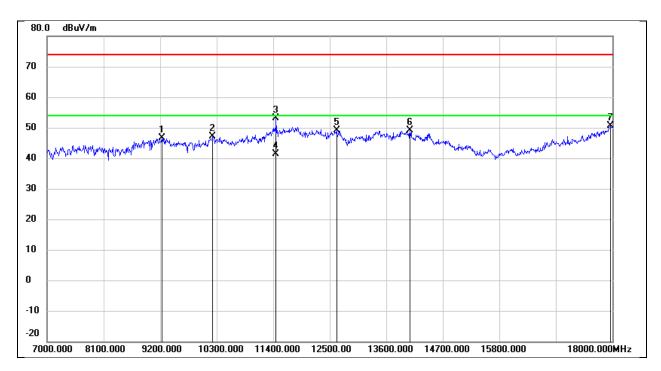


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7715.000	37.56	6.68	44.24	74.00	-29.76	peak
2	9101.000	35.88	10.40	46.28	74.00	-27.72	peak
3	10157.000	35.58	12.10	47.68	74.00	-26.32	peak
4	11455.000	35.16	16.58	51.74	74.00	-22.26	peak
5	11455.000	23.92	16.58	40.50	54.00	-13.50	AVG
6	13512.000	29.06	20.68	49.74	74.00	-24.26	peak
7	17967.000	24.00	25.89	49.89	74.00	-24.11	peak

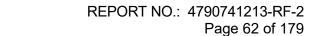




Test Mode:	1.4 MHz	Channel:	5728.5 MHz
Polarity:	Vertical	Test Voltage:	DC 7.2 V

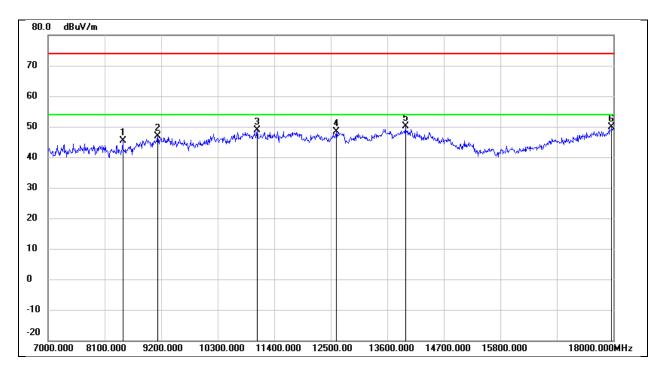


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9233.000	36.04	10.48	46.52	74.00	-27.48	peak
2	10223.000	34.98	12.24	47.22	74.00	-26.78	peak
3	11455.000	36.46	16.58	53.04	74.00	-20.96	peak
4	11455.000	24.72	16.58	41.30	54.00	-12.70	AVG
5	12632.000	31.25	17.99	49.24	74.00	-24.76	peak
6	14062.000	27.51	21.62	49.13	74.00	-24.87	peak
7	17967.000	24.63	25.89	50.52	74.00	-23.48	peak





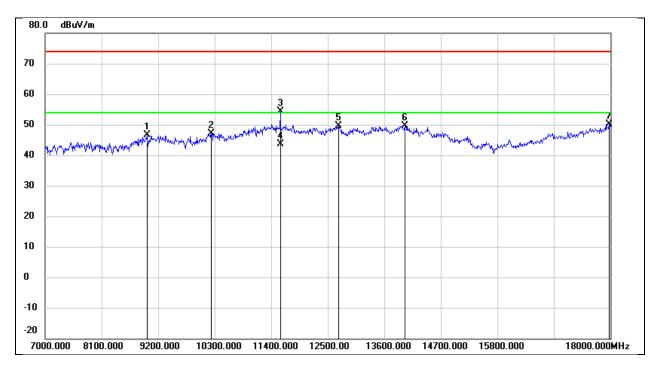
Test Mode:	1.4 MHz	Channel:	5786.5 MHz
Polarity:	Horizontal	Test Voltage:	DC 7.2 V



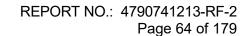
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8452.000	38.46	6.85	45.31	74.00	-28.69	peak
2	9134.000	36.58	10.41	46.99	74.00	-27.01	peak
3	11070.000	33.85	15.01	48.86	74.00	-25.14	peak
4	12610.000	30.42	17.97	48.39	74.00	-25.61	peak
5	13952.000	28.36	21.76	50.12	74.00	-23.88	peak
6	17967.000	23.91	25.89	49.80	74.00	-24.20	peak



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

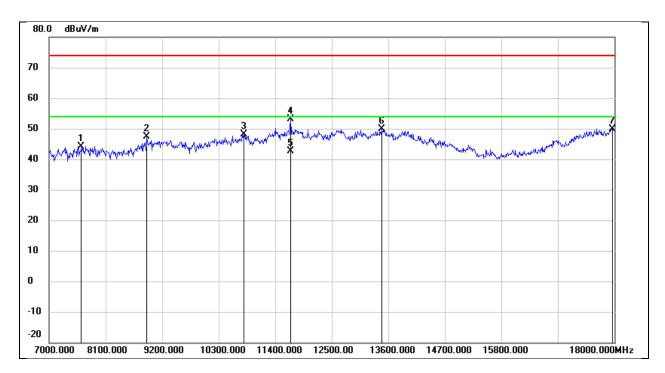


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8980.000	36.50	10.21	46.71	74.00	-27.29	peak
2	10234.000	34.83	12.26	47.09	74.00	-26.91	peak
3	11576.000	37.44	16.91	54.35	74.00	-19.65	peak
4	11576.000	26.79	16.91	43.70	54.00	-10.30	AVG
5	12709.000	31.64	18.09	49.73	74.00	-24.27	peak
6	13996.000	27.67	21.87	49.54	74.00	-24.46	peak
7	17978.000	24.15	25.97	50.12	74.00	-23.88	peak





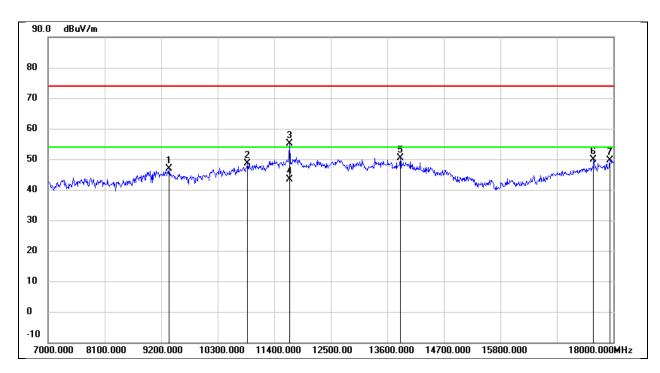
Test Mode:	1.4 MHz	Channel:	5846.5 MHz
Polarity:	Horizontal	Test Voltage:	DC 7.2 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7627.000	37.38	6.76	44.14	74.00	-29.86	peak
2	8903.000	37.70	9.66	47.36	74.00	-26.64	peak
3	10784.000	34.10	13.91	48.01	74.00	-25.99	peak
4	11697.000	36.10	17.13	53.23	74.00	-20.77	peak
5	11697.000	25.47	17.13	42.60	54.00	-11.40	AVG
6	13468.000	29.35	20.50	49.85	74.00	-24.15	peak
7	17967.000	24.11	25.89	50.00	74.00	-24.00	peak



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

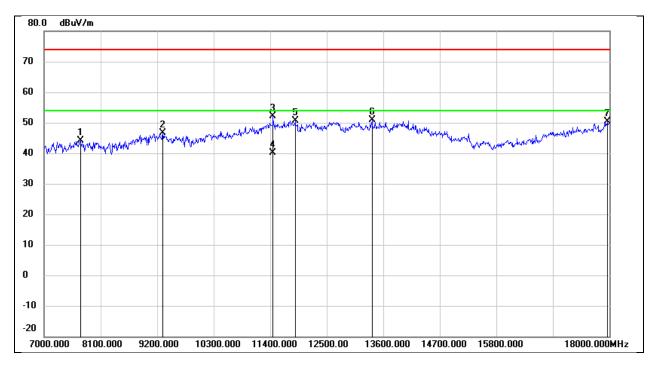


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9354.000	36.24	10.56	46.80	74.00	-27.20	peak
2	10883.000	34.43	14.27	48.70	74.00	-25.30	peak
3	11697.000	38.07	17.13	55.20	74.00	-18.80	peak
4	11697.000	26.13	17.13	43.26	54.00	-10.74	AVG
5	13853.000	28.92	21.52	50.44	74.00	-23.56	peak
6	17615.000	26.30	23.49	49.79	74.00	-24.21	peak
7	17934.000	24.06	25.67	49.73	74.00	-24.27	peak

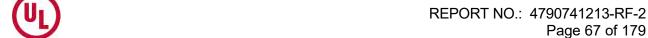


REPORT NO.: 4790741213-RF-2 Page 66 of 179

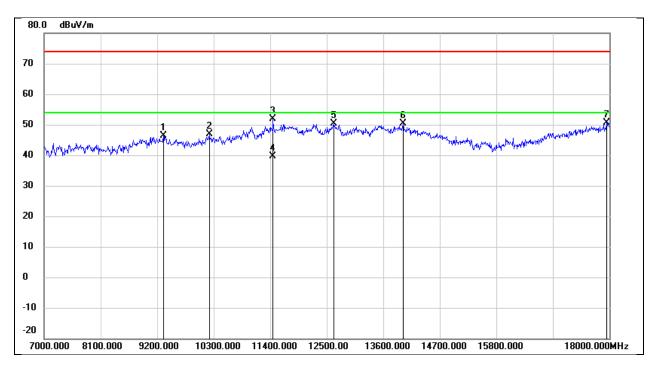
Test Mode:	1.4 MHz CA	Channel:	5730.12 MHz
Polarity:	Horizontal	Test Voltage:	DC 7.2 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7704.000	37.54	6.69	44.23	74.00	-29.77	peak
2	9310.000	35.99	10.54	46.53	74.00	-27.47	peak
3	11455.000	35.55	16.58	52.13	74.00	-21.87	peak
4	11455.000	23.62	16.58	40.20	54.00	-13.80	AVG
5	11884.000	33.18	17.48	50.66	74.00	-23.34	peak
6	13380.000	30.69	20.12	50.81	74.00	-23.19	peak
7	17967.000	24.53	25.89	50.42	74.00	-23.58	peak



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

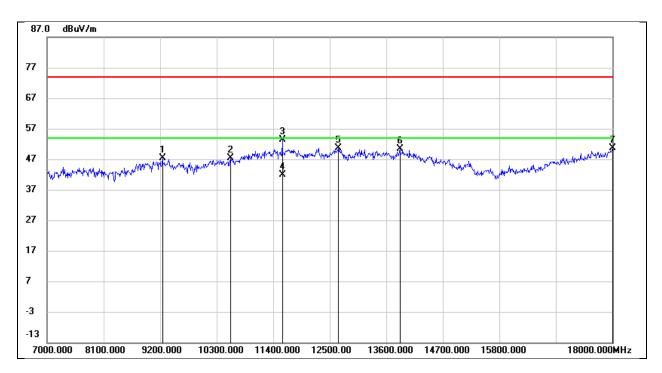


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9321.000	35.80	10.53	46.33	74.00	-27.67	peak
2	10212.000	34.72	12.21	46.93	74.00	-27.07	peak
3	11455.000	35.28	16.58	51.86	74.00	-22.14	peak
4	11455.000	23.02	16.58	39.60	54.00	-14.40	AVG
5	12632.000	32.32	17.99	50.31	74.00	-23.69	peak
6	13985.000	28.46	21.85	50.31	74.00	-23.69	peak
7	17945.000	24.92	25.75	50.67	74.00	-23.33	peak

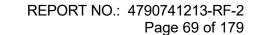




Test Mode:	1.4 MHz CA	Channel:	5788.12 MHz
Polarity:	Horizontal	Test Voltage:	DC 7.2 V

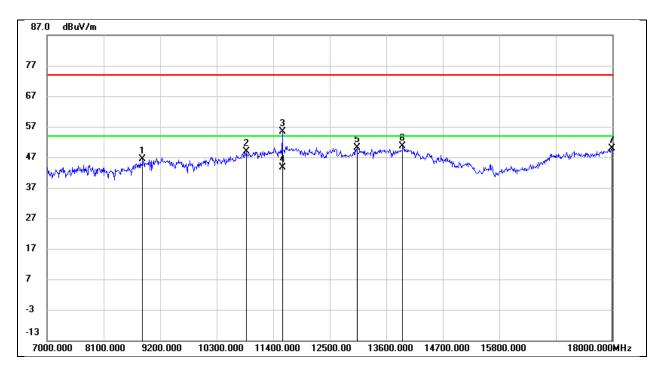


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9244.000	36.95	10.49	47.44	74.00	-26.56	peak
2	10575.000	34.19	13.10	47.29	74.00	-26.71	peak
3	11576.000	36.37	16.91	53.28	74.00	-20.72	peak
4	11576.000	24.89	16.91	41.80	54.00	-12.20	AVG
5	12665.000	32.55	18.04	50.59	74.00	-23.41	peak
6	13864.000	28.84	21.53	50.37	74.00	-23.63	peak
7	18000.000	24.57	26.12	50.69	74.00	-23.31	peak





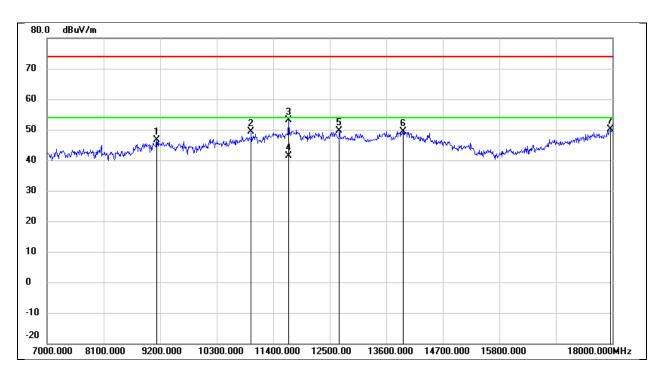
Test Mode: 1.4 MHz CA Channel: 5788.12 MHz
Polarity: Vertical Test Voltage: DC 7.2 V



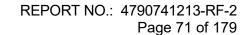
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8859.000	37.03	9.36	46.39	74.00	-27.61	peak
2	10872.000	34.53	14.23	48.76	74.00	-25.24	peak
3	11576.000	38.45	16.91	55.36	74.00	-18.64	peak
4	11576.000	26.79	16.91	43.70	54.00	-10.30	AVG
5	13028.000	31.51	18.57	50.08	74.00	-23.92	peak
6	13919.000	28.96	21.68	50.64	74.00	-23.36	peak
7	17989.000	23.93	26.04	49.97	74.00	-24.03	peak



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

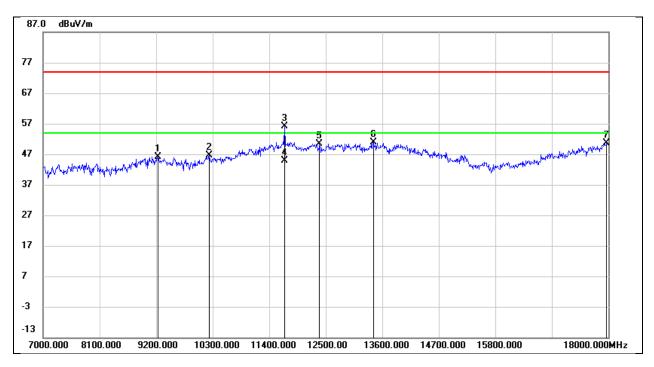


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9134.000	36.32	10.41	46.73	74.00	-27.27	peak
2	10971.000	34.75	14.61	49.36	74.00	-24.64	peak
3	11697.000	36.05	17.13	53.18	74.00	-20.82	peak
4	11697.000	24.17	17.13	41.30	54.00	-12.70	AVG
5	12687.000	31.51	18.05	49.56	74.00	-24.44	peak
6	13930.000	27.68	21.71	49.39	74.00	-24.61	peak
7	17967.000	24.33	25.89	50.22	74.00	-23.78	peak

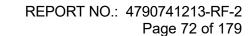




Test Mode:	1.4 MHz CA	Channel:	5848.12 MHz
Polarity:	Vertical	Test Voltage:	DC 7.2 V

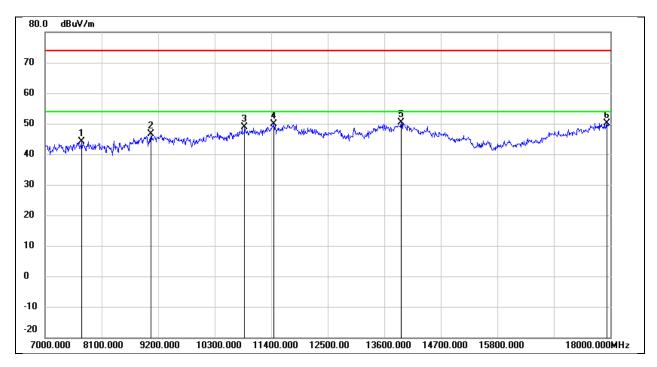


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9233.000	35.63	10.48	46.11	74.00	-27.89	peak
2	10234.000	34.37	12.26	46.63	74.00	-27.37	peak
3	11697.000	39.09	17.13	56.22	74.00	-17.78	peak
4	11697.000	27.67	17.13	44.80	54.00	-9.20	AVG
5	12379.000	32.68	17.80	50.48	74.00	-23.52	peak
6	13435.000	30.56	20.35	50.91	74.00	-23.09	peak
7	17967.000	24.79	25.89	50.68	74.00	-23.32	peak





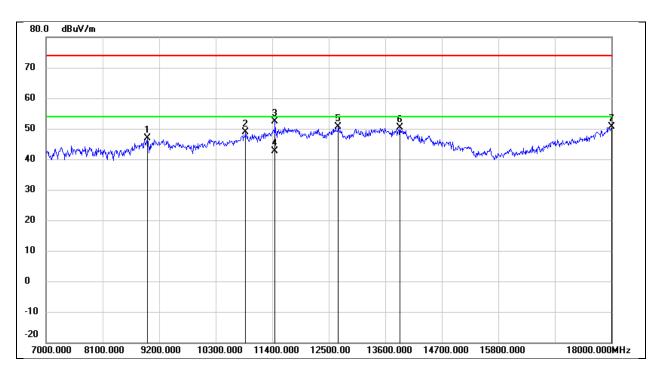
Test Mode:	3 MHz	Channel:	5727.5 MHz
Polarity:	Horizontal	Test Voltage:	DC 7.2 V



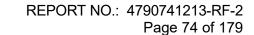
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7715.000	37.55	6.68	44.23	74.00	-29.77	peak
2	9057.000	36.24	10.38	46.62	74.00	-27.38	peak
3	10883.000	34.50	14.27	48.77	74.00	-25.23	peak
4	11455.000	33.27	16.58	49.85	74.00	-24.15	peak
5	13930.000	28.65	21.71	50.36	74.00	-23.64	peak
6	17934.000	24.50	25.67	50.17	74.00	-23.83	peak



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

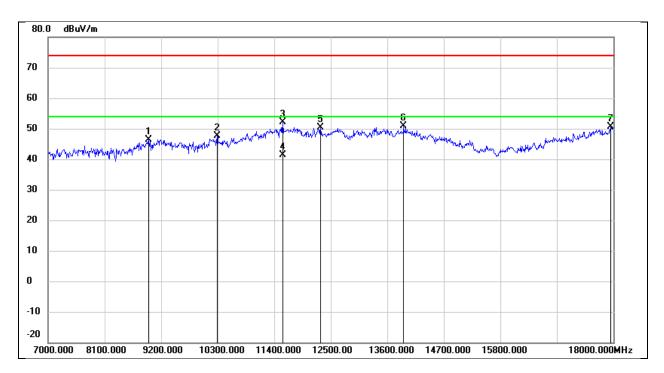


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8969.000	36.63	10.13	46.76	74.00	-27.24	peak
2	10883.000	34.56	14.27	48.83	74.00	-25.17	peak
3	11455.000	35.92	16.58	52.50	74.00	-21.50	peak
4	11455.000	26.02	16.58	42.60	54.00	-11.40	AVG
5	12687.000	32.54	18.05	50.59	74.00	-23.41	peak
6	13886.000	28.68	21.60	50.28	74.00	-23.72	peak
7	18000.000	24.57	26.12	50.69	74.00	-23.31	peak

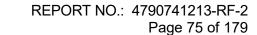




Test Mode:	3 MHz	Channel:	5784.5 MHz
Polarity:	Horizontal	Test Voltage:	DC 7.2 V

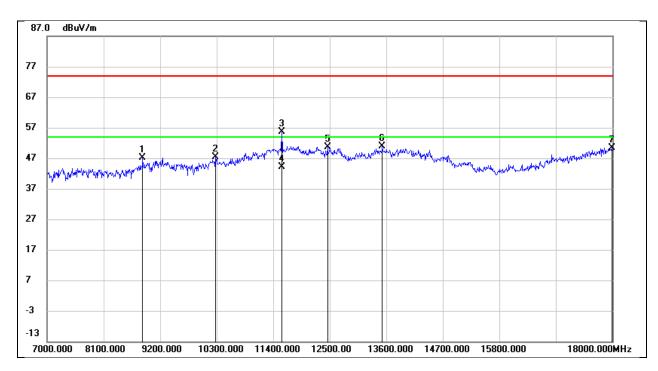


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8958.000	36.37	10.05	46.42	74.00	-27.58	peak
2	10289.000	35.14	12.38	47.52	74.00	-26.48	peak
3	11565.000	35.20	16.89	52.09	74.00	-21.91	peak
4	11565.000	24.61	16.89	41.50	54.00	-12.50	AVG
5	12302.000	32.55	17.78	50.33	74.00	-23.67	peak
6	13919.000	29.11	21.68	50.79	74.00	-23.21	peak
7	17945.000	24.85	25.75	50.60	74.00	-23.40	peak

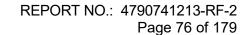




Test Mode:	3 MHz	Channel:	5784.5 MHz
Polarity:	Vertical	Test Voltage:	DC 7.2 V

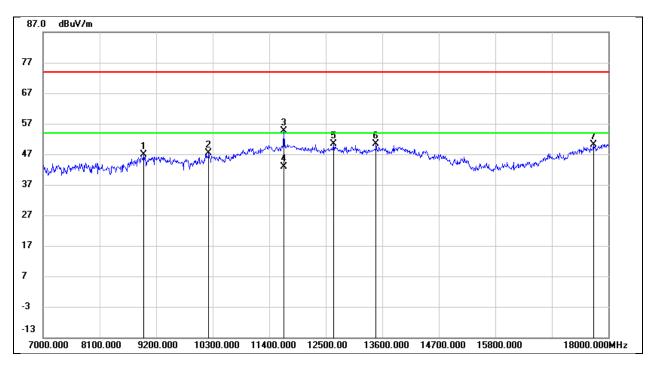


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8859.000	37.77	9.36	47.13	74.00	-26.87	peak
2	10278.000	34.91	12.35	47.26	74.00	-26.74	peak
3	11565.000	38.73	16.89	55.62	74.00	-18.38	peak
4	11565.000	27.31	16.89	44.20	54.00	-9.80	AVG
5	12456.000	32.88	17.82	50.70	74.00	-23.30	peak
6	13523.000	30.11	20.70	50.81	74.00	-23.19	peak
7	17989.000	24.39	26.04	50.43	74.00	-23.57	peak

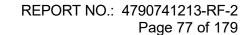




Test Mode:	3 MHz	Channel:	5844.5 MHz
Polarity:	Horizontal	Test Voltage:	DC 7.2 V

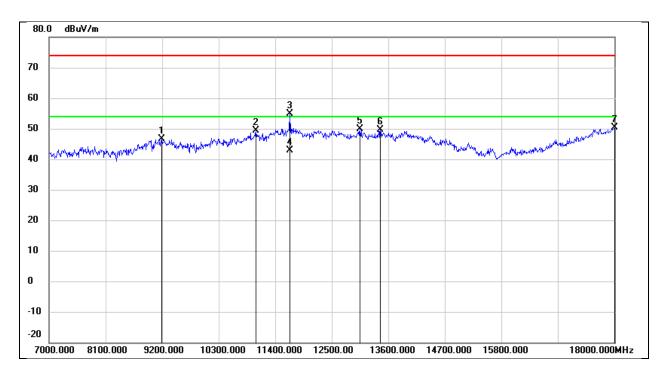


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8958.000	36.80	10.05	46.85	74.00	-27.15	peak
2	10223.000	35.23	12.24	47.47	74.00	-26.53	peak
3	11686.000	37.39	17.12	54.51	74.00	-19.49	peak
4	11686.000	25.68	17.12	42.80	54.00	-11.20	AVG
5	12654.000	32.48	18.01	50.49	74.00	-23.51	peak
6	13479.000	29.71	20.55	50.26	74.00	-23.74	peak
7	17714.000	26.09	24.16	50.25	74.00	-23.75	peak





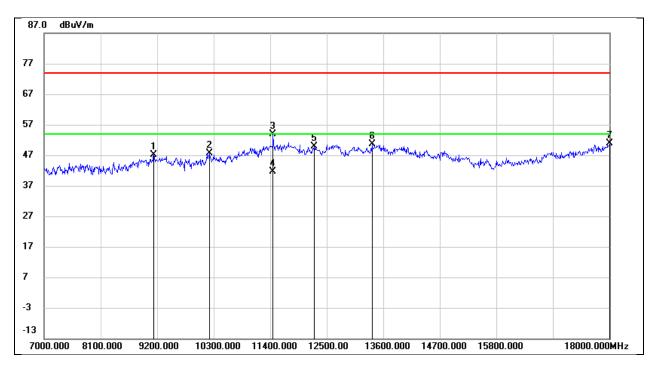
Test Mode:	3 MHz	Channel:	5844.5 MHz
Polarity:	Vertical	Test Voltage:	DC 7.2 V



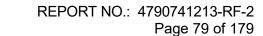
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9189.000	36.23	10.46	46.69	74.00	-27.31	peak
2	11026.000	34.44	14.82	49.26	74.00	-24.74	peak
3	11686.000	37.72	17.12	54.84	74.00	-19.16	peak
4	11686.000	25.78	17.12	42.90	54.00	-11.10	AVG
5	13050.000	31.27	18.66	49.93	74.00	-24.07	peak
6	13446.000	29.33	20.41	49.74	74.00	-24.26	peak
7	18000.000	24.16	26.12	50.28	74.00	-23.72	peak



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

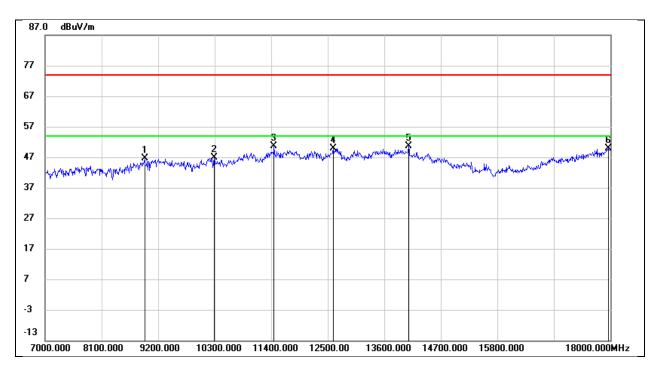


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9134.000	36.76	10.41	47.17	74.00	-26.83	peak
2	10212.000	35.46	12.21	47.67	74.00	-26.33	peak
3	11455.000	37.25	16.58	53.83	74.00	-20.17	peak
4	11455.000	25.12	16.58	41.70	54.00	-12.30	AVG
5	12258.000	32.04	17.77	49.81	74.00	-24.19	peak
6	13380.000	30.39	20.12	50.51	74.00	-23.49	peak
7	18000.000	24.72	26.12	50.84	74.00	-23.16	peak

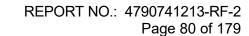




Test Mode:	3 MHz CA	Channel:	5730.2 MHz
Polarity:	Vertical	Test Voltage:	DC 7.2 V

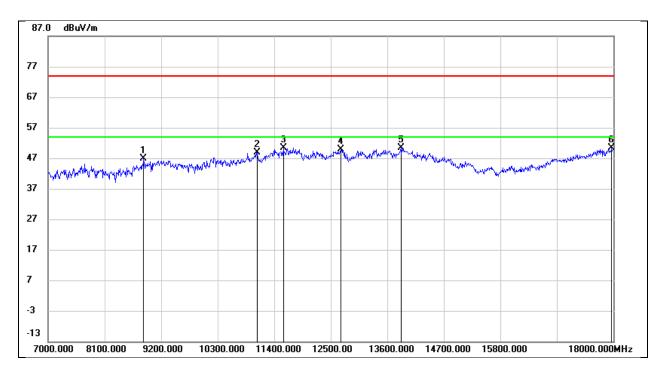


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8936.000	36.75	9.90	46.65	74.00	-27.35	peak
2	10289.000	34.54	12.38	46.92	74.00	-27.08	peak
3	11455.000	33.97	16.58	50.55	74.00	-23.45	peak
4	12610.000	31.98	17.97	49.95	74.00	-24.05	peak
5	14073.000	29.00	21.57	50.57	74.00	-23.43	peak
6	17956.000	23.97	25.82	49.79	74.00	-24.21	peak

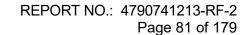




Test Mode:	3 MHz CA	Channel:	5787.2 MHz
Polarity:	Horizontal	Test Voltage:	DC 7.2 V

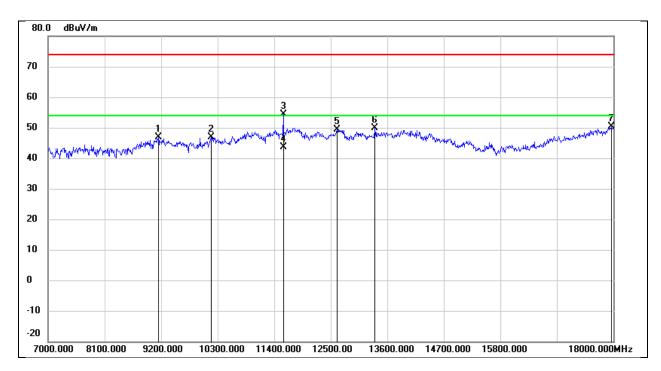


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8859.000	37.46	9.36	46.82	74.00	-27.18	peak
2	11070.000	33.97	15.01	48.98	74.00	-25.02	peak
3	11576.000	33.54	16.91	50.45	74.00	-23.55	peak
4	12698.000	31.90	18.08	49.98	74.00	-24.02	peak
5	13864.000	28.88	21.53	50.41	74.00	-23.59	peak
6	17967.000	24.48	25.89	50.37	74.00	-23.63	peak

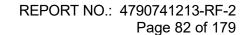




Test Mode:	3 MHz CA	Channel:	5787.2 MHz
Polarity:	Vertical	Test Voltage:	DC 7.2 V

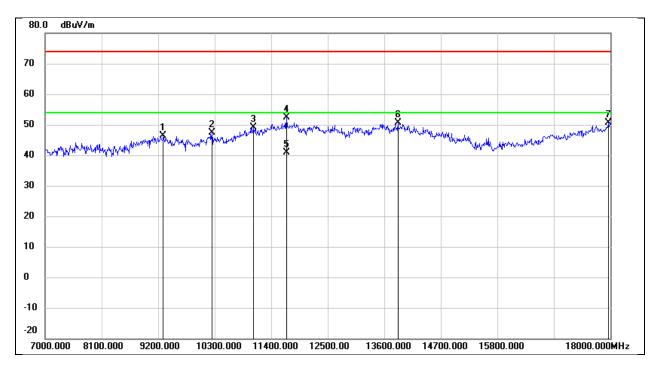


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9145.000	36.40	10.43	46.83	74.00	-27.17	peak
2	10168.000	34.85	12.13	46.98	74.00	-27.02	peak
3	11576.000	37.45	16.91	54.36	74.00	-19.64	peak
4	11576.000	26.69	16.91	43.60	54.00	-10.40	AVG
5	12621.000	31.30	17.98	49.28	74.00	-24.72	peak
6	13358.000	29.92	20.02	49.94	74.00	-24.06	peak
7	17956.000	24.59	25.82	50.41	74.00	-23.59	peak

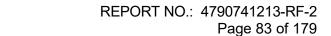




Test Mode:	3 MHz CA	Channel:	5847.2 MHz
Polarity:	Horizontal	Test Voltage:	DC 7.2 V

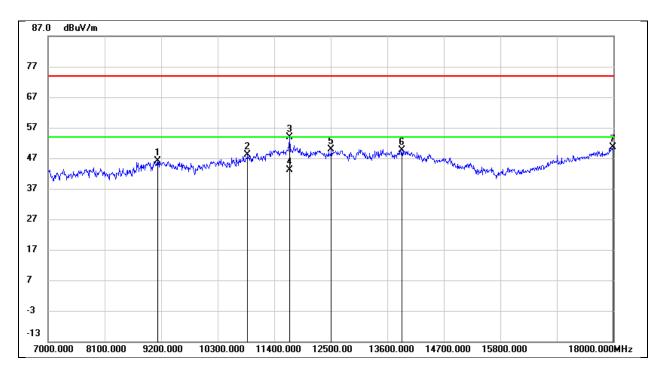


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9299.000	35.95	10.53	46.48	74.00	-27.52	peak
2	10245.000	35.11	12.28	47.39	74.00	-26.61	peak
3	11059.000	34.26	14.96	49.22	74.00	-24.78	peak
4	11697.000	35.35	17.13	52.48	74.00	-21.52	peak
5	11697.000	23.67	17.13	40.80	54.00	-13.20	AVG
6	13864.000	29.13	21.53	50.66	74.00	-23.34	peak
7	17967.000	24.86	25.89	50.75	74.00	-23.25	peak





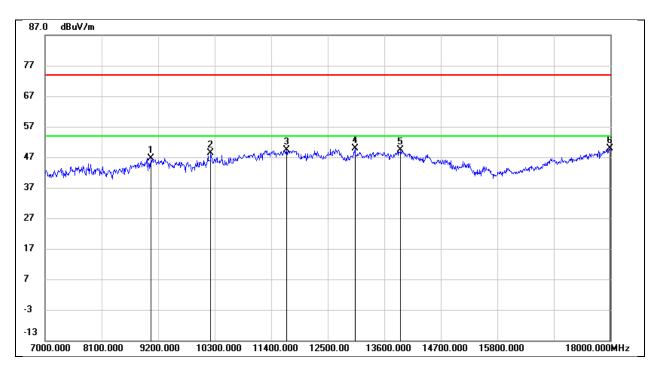
Test Mode:	3 MHz CA	Channel:	5847.2 MHz
Polarity:	Vertical	Test Voltage:	DC 7.2 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9134.000	35.60	10.41	46.01	74.00	-27.99	peak
2	10883.000	33.78	14.27	48.05	74.00	-25.95	peak
3	11697.000	36.80	17.13	53.93	74.00	-20.07	peak
4	11697.000	26.07	17.13	43.20	54.00	-10.80	AVG
5	12511.000	32.15	17.84	49.99	74.00	-24.01	peak
6	13886.000	27.92	21.60	49.52	74.00	-24.48	peak
7	17989.000	24.49	26.04	50.53	74.00	-23.47	peak



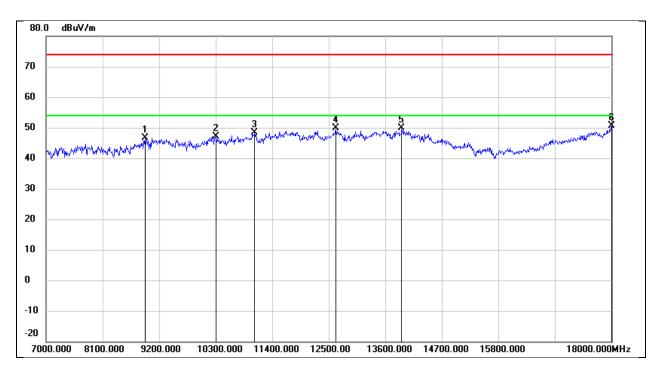
Test Mode:	10 MHz	Channel:	5730.5 MHz
Polarity:	Horizontal	Test Voltage:	DC 7.2 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9057.000	36.25	10.38	46.63	74.00	-27.37	peak
2	10223.000	36.06	12.24	48.30	74.00	-25.70	peak
3	11697.000	32.15	17.13	49.28	74.00	-24.72	peak
4	13028.000	31.39	18.57	49.96	74.00	-24.04	peak
5	13919.000	27.82	21.68	49.50	74.00	-24.50	peak
6	17989.000	23.74	26.04	49.78	74.00	-24.22	peak



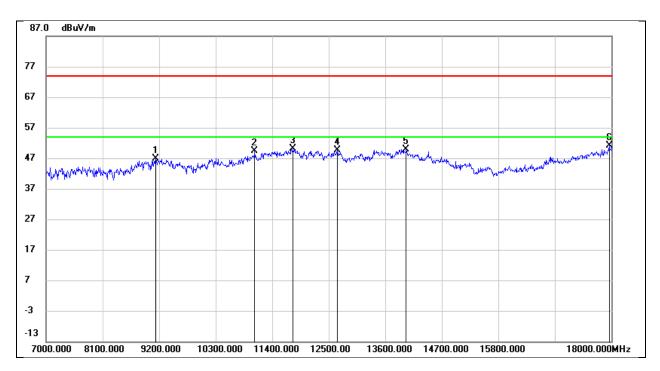
Test Mode:	10 MHz	Channel:	5730.5 MHz
Polarity:	Vertical	Test Voltage:	DC 7.2 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8925.000	36.79	9.82	46.61	74.00	-27.39	peak
2	10300.000	34.76	12.40	47.16	74.00	-26.84	peak
3	11059.000	33.46	14.96	48.42	74.00	-25.58	peak
4	12632.000	31.98	17.99	49.97	74.00	-24.03	peak
5	13919.000	28.08	21.68	49.76	74.00	-24.24	peak
6	18000.000	24.46	26.12	50.58	74.00	-23.42	peak



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

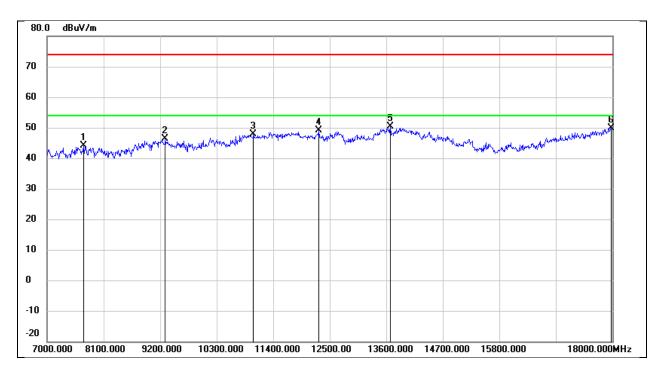


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9134.000	36.47	10.41	46.88	74.00	-27.12	peak
2	11059.000	34.33	14.96	49.29	74.00	-24.71	peak
3	11807.000	32.91	17.34	50.25	74.00	-23.75	peak
4	12665.000	31.50	18.04	49.54	74.00	-24.46	peak
5	14007.000	27.99	21.85	49.84	74.00	-24.16	peak
6	17956.000	25.28	25.82	51.10	74.00	-22.90	peak





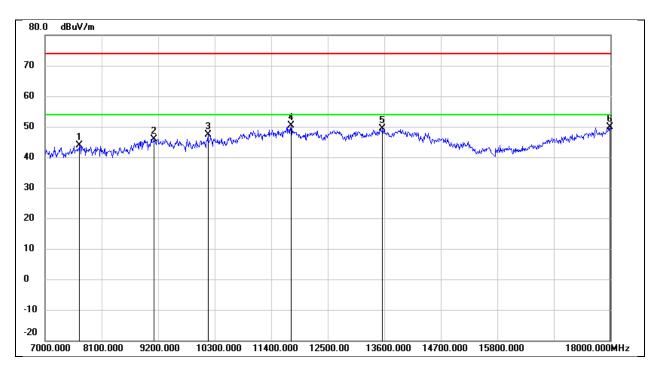
Test Mode:	10 MHz	Channel:	5787.5 MHz
Polarity:	Vertical	Test Voltage:	DC 7.2 V



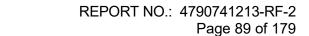
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7715.000	37.44	6.68	44.12	74.00	-29.88	peak
2	9299.000	35.88	10.53	46.41	74.00	-27.59	peak
3	11015.000	33.19	14.79	47.98	74.00	-26.02	peak
4	12291.000	31.30	17.78	49.08	74.00	-24.92	peak
5	13677.000	29.23	21.08	50.31	74.00	-23.69	peak
6	17978.000	23.92	25.97	49.89	74.00	-24.11	peak



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

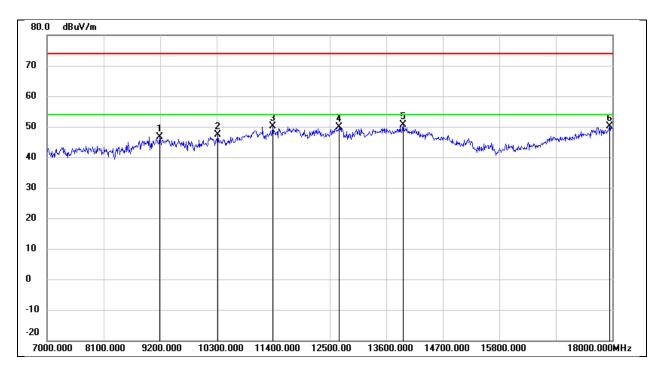


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7671.000	37.24	6.71	43.95	74.00	-30.05	peak
2	9112.000	35.57	10.41	45.98	74.00	-28.02	peak
3	10168.000	35.26	12.13	47.39	74.00	-26.61	peak
4	11785.000	32.98	17.30	50.28	74.00	-23.72	peak
5	13567.000	28.70	20.80	49.50	74.00	-24.50	peak
6	17989.000	23.92	26.04	49.96	74.00	-24.04	peak



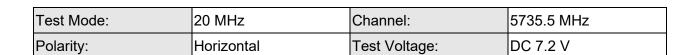


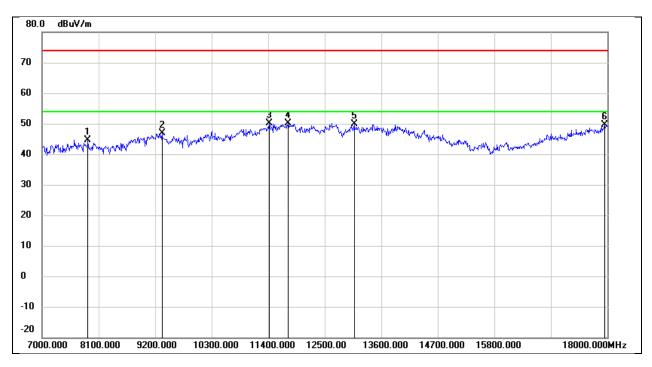
Test Mode:	10 MHz	Channel:	5844.5 MHz
Polarity:	Vertical	Test Voltage:	DC 7.2 V



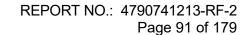
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9189.000	36.22	10.46	46.68	74.00	-27.32	peak
2	10322.000	34.81	12.45	47.26	74.00	-26.74	peak
3	11389.000	33.82	16.31	50.13	74.00	-23.87	peak
4	12687.000	31.81	18.05	49.86	74.00	-24.14	peak
5	13930.000	29.04	21.71	50.75	74.00	-23.25	peak
6	17945.000	24.38	25.75	50.13	74.00	-23.87	peak





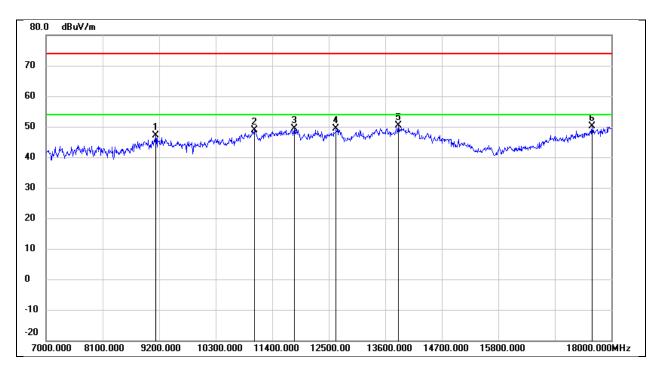


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7891.000	38.18	6.52	44.70	74.00	-29.30	peak
2	9332.000	36.40	10.54	46.94	74.00	-27.06	peak
3	11422.000	33.55	16.46	50.01	74.00	-23.99	peak
4	11785.000	32.80	17.30	50.10	74.00	-23.90	peak
5	13072.000	31.11	18.77	49.88	74.00	-24.12	peak
6	17945.000	23.88	25.75	49.63	74.00	-24.37	peak

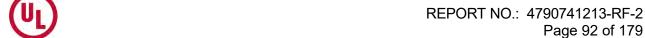




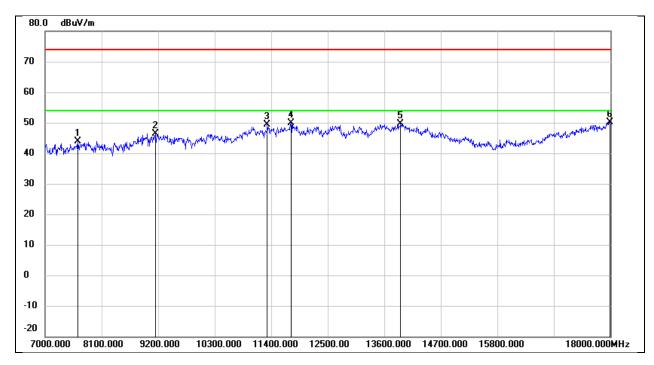
Test Mode:	20 MHz	Channel:	5735.5 MHz
Polarity:	Vertical	Test Voltage:	DC 7.2 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9134.000	36.71	10.41	47.12	74.00	-26.88	peak
2	11048.000	33.90	14.91	48.81	74.00	-25.19	peak
3	11829.000	32.03	17.38	49.41	74.00	-24.59	peak
4	12643.000	31.45	18.01	49.46	74.00	-24.54	peak
5	13853.000	28.85	21.52	50.37	74.00	-23.63	peak
6	17626.000	26.52	23.57	50.09	74.00	-23.91	peak



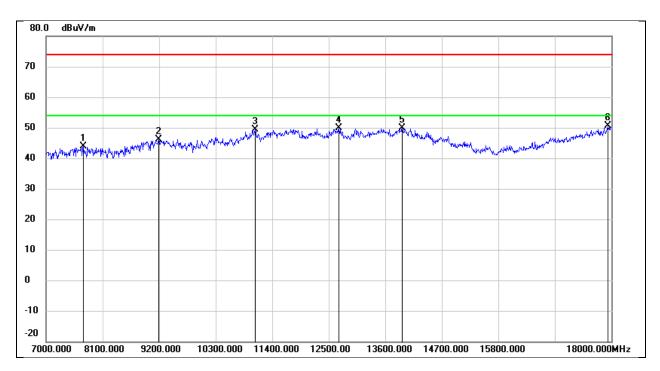
Test Mode:	20 MHz	Channel:	5787.5 MHz
Polarity:	Horizontal	Test Voltage:	DC 7.2 V



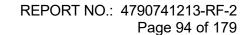
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7638.000	37.19	6.75	43.94	74.00	-30.06	peak
2	9145.000	35.98	10.43	46.41	74.00	-27.59	peak
3	11323.000	33.31	16.05	49.36	74.00	-24.64	peak
4	11785.000	32.46	17.30	49.76	74.00	-24.24	peak
5	13919.000	28.01	21.68	49.69	74.00	-24.31	peak
6	17989.000	24.05	26.04	50.09	74.00	-23.91	peak



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

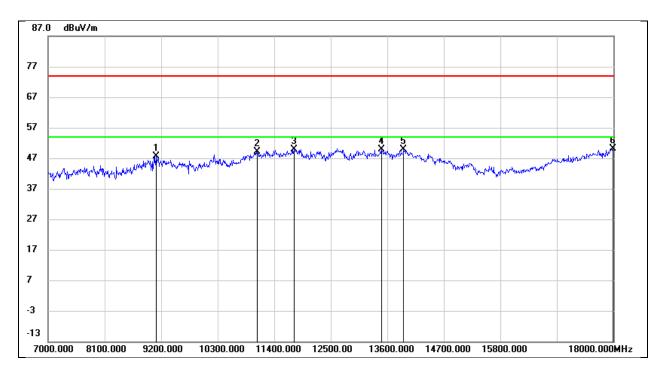


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7726.000	37.30	6.68	43.98	74.00	-30.02	peak
2	9189.000	35.66	10.46	46.12	74.00	-27.88	peak
3	11070.000	34.37	15.01	49.38	74.00	-24.62	peak
4	12698.000	31.78	18.08	49.86	74.00	-24.14	peak
5	13930.000	28.13	21.71	49.84	74.00	-24.16	peak
6	17934.000	25.06	25.67	50.73	74.00	-23.27	peak





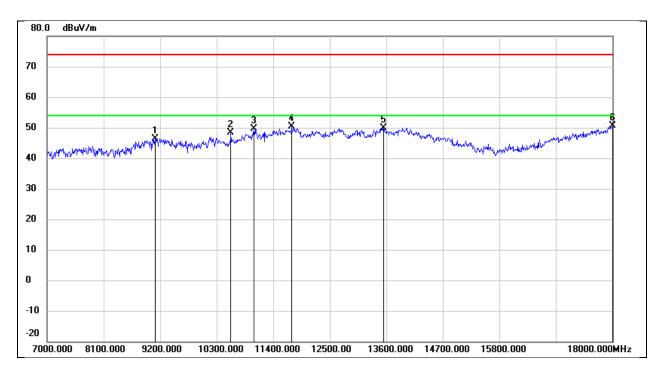
Test Mode:	20 MHz	Channel:	5839.5 MHz
Polarity:	Horizontal	Test Voltage:	DC 7.2 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9101.000	37.12	10.40	47.52	74.00	-26.48	peak
2	11070.000	34.19	15.01	49.20	74.00	-24.80	peak
3	11785.000	32.70	17.30	50.00	74.00	-24.00	peak
4	13490.000	29.29	20.60	49.89	74.00	-24.11	peak
5	13919.000	28.10	21.68	49.78	74.00	-24.22	peak
6	17989.000	24.19	26.04	50.23	74.00	-23.77	peak



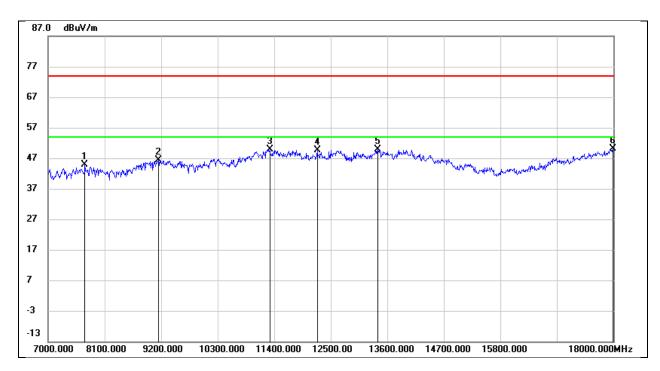
Test Mode:	20 MHz	Channel:	5839.5 MHz
Polarity:	Vertical	Test Voltage:	DC 7.2 V



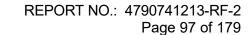
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9101.000	35.95	10.40	46.35	74.00	-27.65	peak
2	10575.000	35.18	13.10	48.28	74.00	-25.72	peak
3	11026.000	34.84	14.82	49.66	74.00	-24.34	peak
4	11763.000	33.19	17.26	50.45	74.00	-23.55	peak
5	13545.000	29.07	20.75	49.82	74.00	-24.18	peak
6	18000.000	24.56	26.12	50.68	74.00	-23.32	peak



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

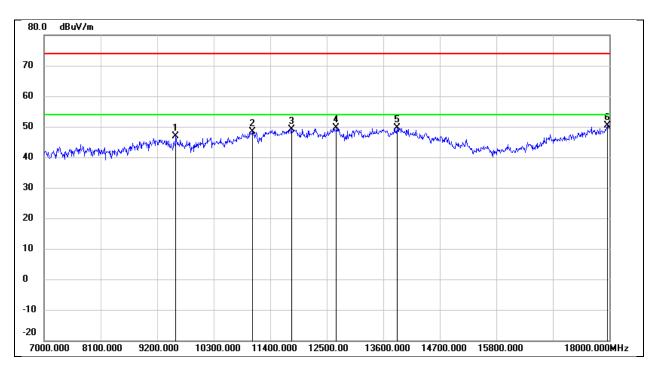


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7715.000	38.19	6.68	44.87	74.00	-29.13	peak
2	9145.000	35.93	10.43	46.36	74.00	-27.64	peak
3	11312.000	33.98	16.00	49.98	74.00	-24.02	peak
4	12236.000	31.95	17.76	49.71	74.00	-24.29	peak
5	13413.000	29.64	20.26	49.90	74.00	-24.10	peak
6	17989.000	24.11	26.04	50.15	74.00	-23.85	peak





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

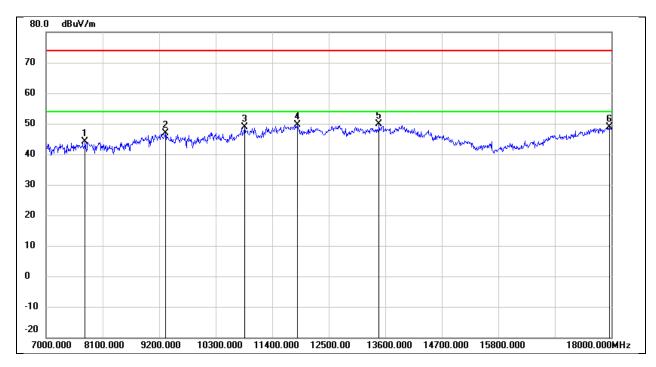


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9563.000	36.18	10.79	46.97	74.00	-27.03	peak
2	11059.000	33.52	14.96	48.48	74.00	-25.52	peak
3	11818.000	31.89	17.36	49.25	74.00	-24.75	peak
4	12687.000	31.49	18.05	49.54	74.00	-24.46	peak
5	13864.000	28.19	21.53	49.72	74.00	-24.28	peak
6	17956.000	24.51	25.82	50.33	74.00	-23.67	peak



REPORT NO.: 4790741213-RF-2 Page 98 of 179

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

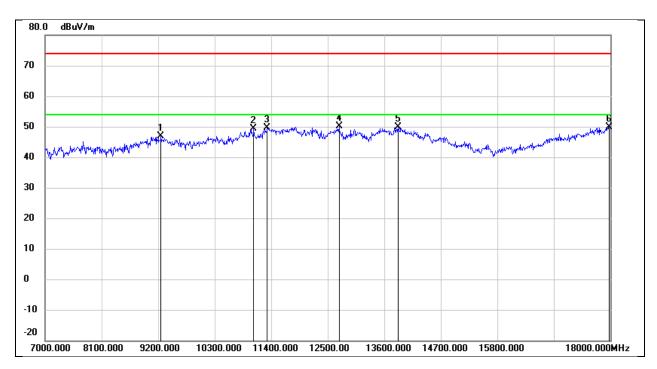


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7759.000	37.43	6.64	44.07	74.00	-29.93	peak
2	9321.000	36.25	10.53	46.78	74.00	-27.22	peak
3	10861.000	34.66	14.20	48.86	74.00	-25.14	peak
4	11884.000	32.09	17.48	49.57	74.00	-24.43	peak
5	13479.000	29.22	20.55	49.77	74.00	-24.23	peak
6	17956.000	22.95	25.82	48.77	74.00	-25.23	peak



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

Page 99 of 179

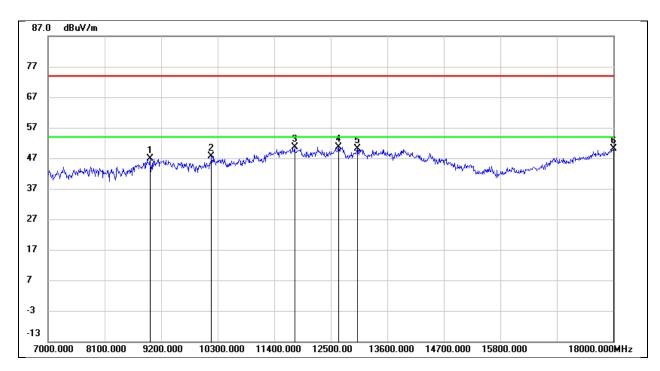


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9255.000	36.27	10.51	46.78	74.00	-27.22	peak
2	11059.000	34.38	14.96	49.34	74.00	-24.66	peak
3	11323.000	33.49	16.05	49.54	74.00	-24.46	peak
4	12720.000	32.01	18.09	50.10	74.00	-23.90	peak
5	13864.000	28.39	21.53	49.92	74.00	-24.08	peak
6	17978.000	23.89	25.97	49.86	74.00	-24.14	peak



REPORT NO.: 4790741213-RF-2 Page 100 of 179

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

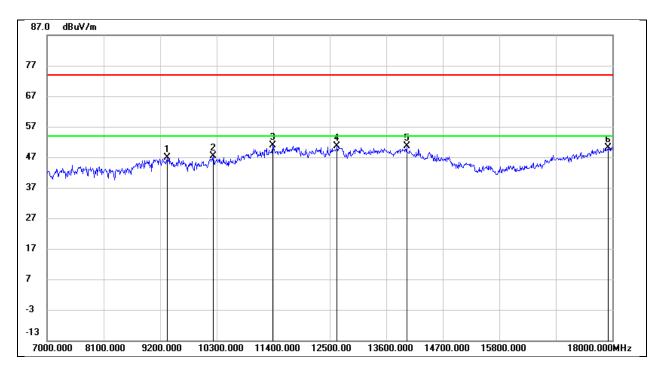


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8980.000	36.67	10.21	46.88	74.00	-27.12	peak
2	10179.000	35.60	12.14	47.74	74.00	-26.26	peak
3	11796.000	33.31	17.32	50.63	74.00	-23.37	peak
4	12654.000	32.70	18.01	50.71	74.00	-23.29	peak
5	13017.000	31.53	18.53	50.06	74.00	-23.94	peak
6	18000.000	24.05	26.12	50.17	74.00	-23.83	peak



REPORT NO.: 4790741213-RF-2 Page 101 of 179

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



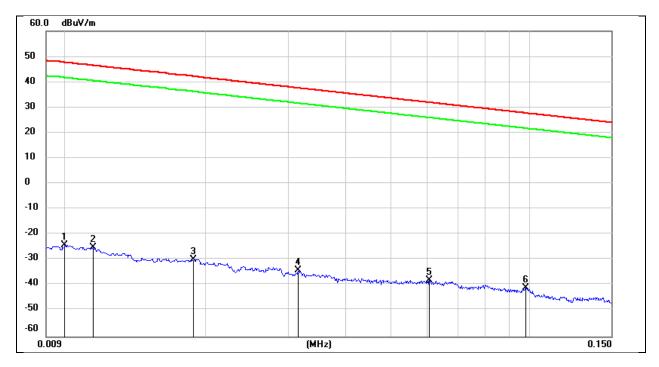
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9332.000	36.31	10.54	46.85	74.00	-27.15	peak
2	10234.000	35.24	12.26	47.50	74.00	-26.50	peak
3	11389.000	34.47	16.31	50.78	74.00	-23.22	peak
4	12643.000	32.62	18.01	50.63	74.00	-23.37	peak
5	13996.000	28.88	21.87	50.75	74.00	-23.25	peak
6	17923.000	24.46	25.60	50.06	74.00	-23.94	peak



REPORT NO.: 4790741213-RF-2 Page 102 of 179

8.4. SPURIOUS EMISSIONS (9 KHZ ~ 30 MHZ)

Test Mode:	3 MHz CA	Channel:	5847.2 MHz
Polarity:	Loop Antenna Face On To The EUT	Test Voltage:	DC 7.2 V

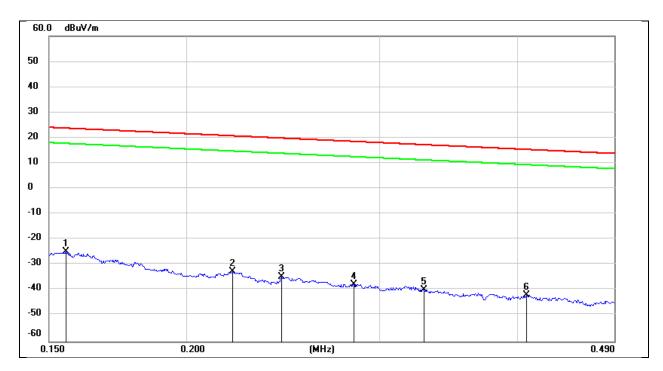


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.0100	77.22	-101.40	-24.18	47.60	-71.78	peak
2	0.0114	76.38	-101.40	-25.02	46.46	-71.48	peak
3	0.0188	71.64	-101.35	-29.71	42.12	-71.83	peak
4	0.0316	67.24	-101.40	-34.16	37.61	-71.77	peak
5	0.0606	63.45	-101.52	-38.07	31.95	-70.02	peak
6	0.0981	60.77	-101.78	-41.01	27.77	-68.78	peak



REPORT NO.: 4790741213-RF-2 Page 103 of 179

Test Mode:	3 MHz CA	Channel:	5847.2 MHz
Polarity:	Loop Antenna Face On To The EUT	Test Voltage:	DC 7.2 V

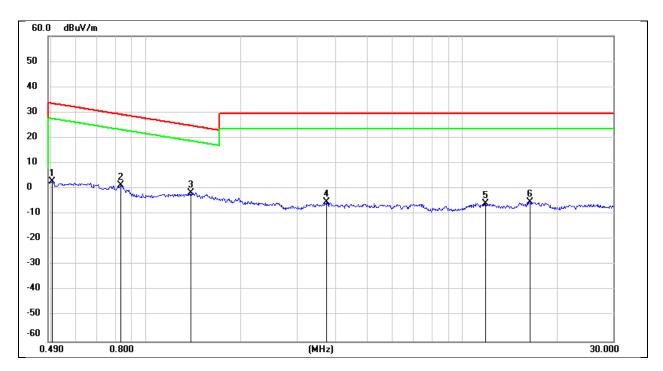


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.1554	76.77	-101.65	-24.88	23.77	-48.65	peak
2	0.2204	69.16	-101.75	-32.59	20.74	-53.33	peak
3	0.2442	67.03	-101.79	-34.76	19.85	-54.61	peak
4	0.2837	64.22	-101.83	-37.61	18.54	-56.15	peak
5	0.3286	62.21	-101.88	-39.67	17.27	-56.94	peak
6	0.4081	60.08	-101.97	-41.89	15.39	-57.28	peak



REPORT NO.: 4790741213-RF-2 Page 104 of 179

Test Mode:	3 MHz CA	Channel:	5847.2 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	0.5039	64.93	-62.07	2.86	33.56	-30.70	peak
2	0.8296	63.44	-62.17	1.27	29.23	-27.96	peak
3	1.3810	60.47	-62.10	-1.63	24.80	-26.43	peak
4	3.7100	56.20	-61.41	-5.21	29.54	-34.75	peak
5	11.8513	55.06	-60.88	-5.82	29.54	-35.36	peak
6	16.3959	55.67	-60.96	-5.29	29.54	-34.83	peak

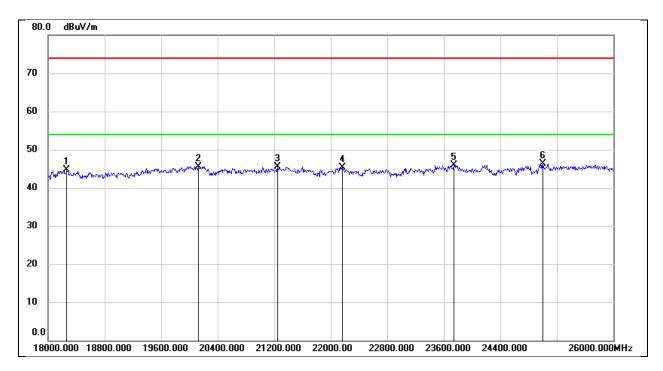


REPORT NO.: 4790741213-RF-2

Page 105 of 179

8.5. SPURIOUS EMISSIONS (18 GHZ ~ 26 GHZ)

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

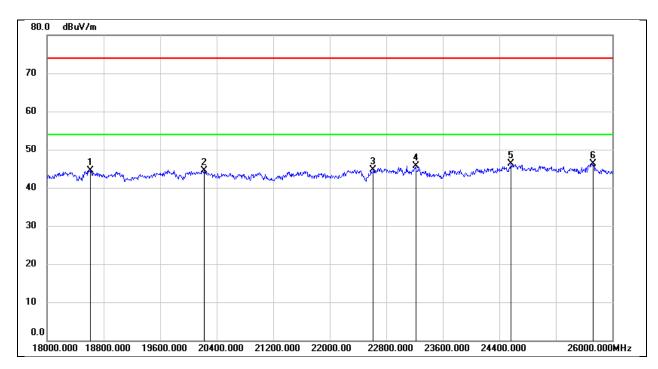


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18264.000	50.15	-5.53	44.62	74.00	-29.38	peak
2	20128.000	51.12	-5.53	45.59	74.00	-28.41	peak
3	21248.000	50.29	-4.77	45.52	74.00	-28.48	peak
4	22160.000	49.58	-4.31	45.27	74.00	-28.73	peak
5	23744.000	49.15	-3.20	45.95	74.00	-28.05	peak
6	25000.000	48.36	-2.10	46.26	74.00	-27.74	peak



REPORT NO.: 4790741213-RF-2 Page 106 of 179

Test Mode:	3 MHz CA	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	18616.000	49.89	-5.34	44.55	74.00	-29.45	peak
2	20224.000	50.02	-5.60	44.42	74.00	-29.58	peak
3	22616.000	48.59	-3.80	44.79	74.00	-29.21	peak
4	23216.000	49.01	-3.38	45.63	74.00	-28.37	peak
5	24568.000	48.60	-2.33	46.27	74.00	-27.73	peak
6	25728.000	47.11	-0.72	46.39	74.00	-27.61	peak

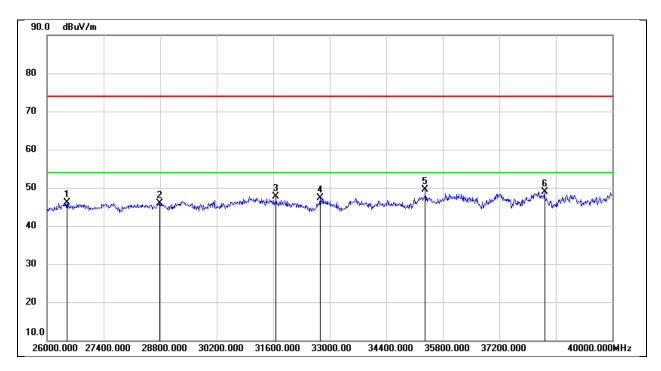


REPORT NO.: 4790741213-RF-2

Page 107 of 179

8.6. SPURIOUS EMISSIONS (26 GHZ ~ 40 GHZ)

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

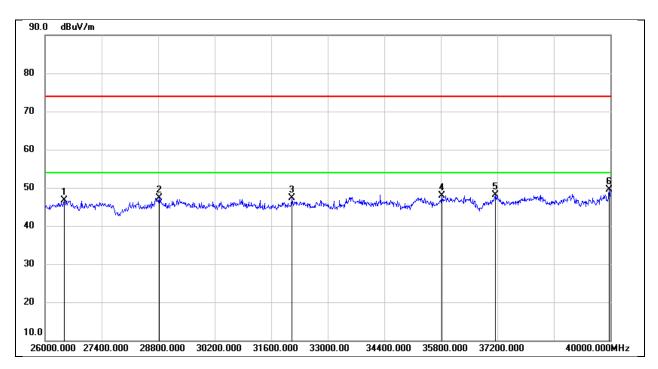


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	26490.000	50.79	-4.74	46.05	74.00	-27.95	peak
2	28786.000	46.49	-0.64	45.85	74.00	-28.15	peak
3	31670.000	48.86	-1.21	47.65	74.00	-26.35	peak
4	32762.000	48.45	-1.21	47.24	74.00	-26.76	peak
5	35366.000	46.90	2.59	49.49	74.00	-24.51	peak
6	38320.000	45.06	3.77	48.83	74.00	-25.17	peak



REPORT NO.: 4790741213-RF-2 Page 108 of 179

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



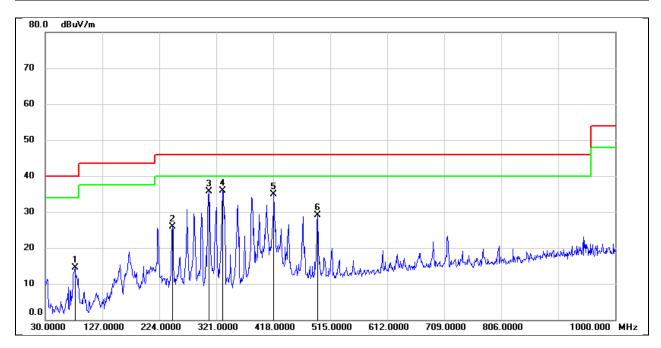
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	26476.000	51.53	-4.78	46.75	74.00	-27.25	peak
2	28828.000	48.13	-0.79	47.34	74.00	-26.66	peak
3	32104.000	48.99	-1.75	47.24	74.00	-26.76	peak
4	35828.000	44.25	3.67	47.92	74.00	-26.08	peak
5	37158.000	44.84	3.17	48.01	74.00	-25.99	peak
6	39972.000	44.45	5.13	49.58	74.00	-24.42	peak



REPORT NO.: 4790741213-RF-2 Page 109 of 179

8.7. SPURIOUS EMISSIONS (30 MHZ ~ 1 GHZ)

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

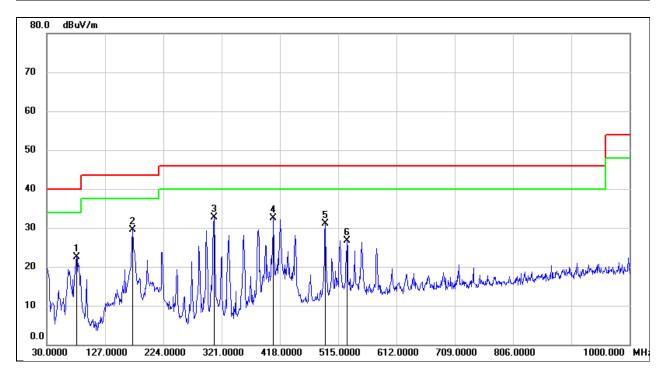


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	80.4400	35.79	-21.38	14.41	40.00	-25.59	QP
2	246.3100	44.83	-19.02	25.81	46.00	-20.19	QP
3	308.3900	50.81	-15.12	35.69	46.00	-10.31	QP
4	331.6700	50.45	-14.64	35.81	46.00	-10.19	QP
5	418.9700	47.83	-13.01	34.82	46.00	-11.18	QP
6	493.6600	40.78	-11.61	29.17	46.00	-16.83	QP





Test Mode:	3 MHz CA	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	79.4700	43.76	-21.30	22.46	40.00	-17.54	QP
2	172.5900	46.71	-17.20	29.51	43.50	-13.99	QP
3	308.3900	47.76	-15.12	32.64	46.00	-13.36	QP
4	407.3299	45.68	-13.20	32.48	46.00	-13.52	QP
5	493.6600	42.79	-11.61	31.18	46.00	-14.82	QP
6	529.5500	37.46	-10.82	26.64	46.00	-19.36	QP

REPORT NO.: 4790741213-RF-2 Page 111 of 179

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

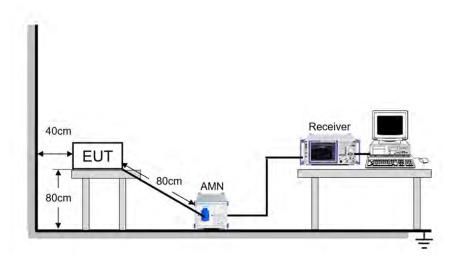
TEST PROCEDURE

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

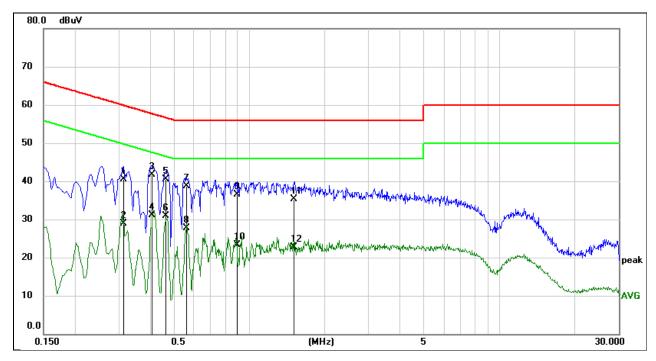
Temperature	23.6 °C	Relative Humidity	53 %
Atmosphere Pressure	101 kPa	Test Voltage	AC 120 V/60 Hz



REPORT NO.: 4790741213-RF-2 Page 112 of 179

TEST RESULTS

Test Mode:	3 MHz CA	Channel:	5847.2 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	0.3135	30.92	9.55	40.47	59.88	-19.41	QP
2	0.3135	19.42	9.55	28.97	49.88	-20.91	AVG
3	0.4092	32.17	9.53	41.70	57.66	-15.96	QP
4	0.4092	21.53	9.53	31.06	47.66	-16.60	AVG
5	0.4647	30.99	9.51	40.50	56.61	-16.11	QP
6	0.4647	21.30	9.51	30.81	46.61	-15.80	AVG
7	0.5604	29.27	9.50	38.77	56.00	-17.23	QP
8	0.5604	18.21	9.50	27.71	46.00	-18.29	AVG
9	0.8873	27.02	9.50	36.52	56.00	-19.48	QP
10	0.8873	13.71	9.50	23.21	46.00	-22.79	AVG
11	1.5011	25.71	9.57	35.28	56.00	-20.72	QP
12	1.5011	13.09	9.57	22.66	46.00	-23.34	AVG

Note:

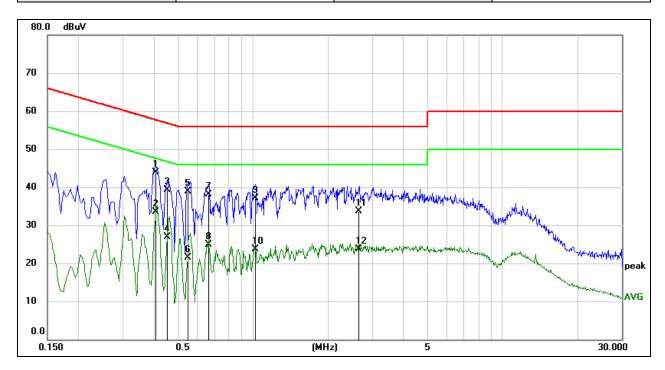
- 1. Result = Reading + Correct Factor.
- 2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).
- 4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

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



REPORT NO.: 4790741213-RF-2 Page 113 of 179

Test Mode:	3 MHz CA	Channel:	5847.2 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	0.4093	34.30	9.53	43.83	57.66	-13.83	QP
2	0.4093	23.95	9.53	33.48	47.66	-14.18	AVG
3	0.4532	29.72	9.52	39.24	56.82	-17.58	QP
4	0.4532	17.45	9.52	26.97	46.82	-19.85	AVG
5	0.5465	29.48	9.50	38.98	56.00	-17.02	QP
6	0.5465	12.00	9.50	21.50	46.00	-24.50	AVG
7	0.6646	28.53	9.50	38.03	56.00	-17.97	QP
8	0.6646	15.32	9.50	24.82	46.00	-21.18	AVG
9	1.0219	27.52	9.51	37.03	56.00	-18.97	QP
10	1.0219	14.13	9.51	23.64	46.00	-22.36	AVG
11	2.6502	24.16	9.62	33.78	56.00	-22.22	QP
12	2.6502	14.09	9.62	23.71	46.00	-22.29	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.



REPORT NO.: 4790741213-RF-2

Page 114 of 179

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

REPORT NO.: 4790741213-RF-2

Page 115 of 179

11. TEST DATA

11.1. APPENDIX A1: DTS AND 26DB BANDWIDTH 11.1.1. Test Result

Test Mode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
	Ant0	5728.5	1.12	5727.94	5729.06	>=0.5	PASS
	Ant1	5728.5	1.13	5727.94	5729.07	>=0.5	PASS
1.4 MHz	Ant0	5786.5	1.11	5785.94	5787.06	>=0.5	PASS
1.4 IVITZ	Ant1	5786.5	1.14	5785.93	5787.07	>=0.5	PASS
	Ant0	5846.5	1.09	5845.96	5847.05	>=0.5	PASS
	Ant1	5846.5	1.15	5845.91	5847.06	>=0.5	PASS
	Ant0	5730.12	1.10	5729.57	5730.67	>=0.5	PASS
	Ant1	5730.12	1.13	5729.55	5730.68	>=0.5	PASS
1.4 MHz CA	Ant0	5788.12	1.10	5787.57	5788.67	>=0.5	PASS
1.4 WIHZ CA	Ant1	5788.12	1.17	5787.53	5788.70	>=0.5	PASS
	Ant0	5848.12	1.12	5847.56	5848.68	>=0.5	PASS
	Ant1	5848.12	1.16	5847.53	5848.69	>=0.5	PASS

Test Mode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Verdict
		5728.5	2.07	5727.54	5729.61	PASS
1.4 MHz	Ant1	5786.5	2.05	5785.58	5787.64	PASS
		5846.5	2.10	5845.58	5847.68	PASS
		5730.12	2.00	5729.22	5731.22	PASS
1.4 MHz CA	Ant1	5788.12	2.00	5787.20	5789.20	PASS
		5848.12	2.10	5847.09	5849.20	PASS

Test Mode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
	Ant0	5727.5	2.15	5726.44	5728.59	>=0.5	PASS
	Ant1	5727.5	2.21	5726.39	5728.61	>=0.5	PASS
3 MHz	Ant0	5784.5	2.15	5783.43	5785.58	>=0.5	PASS
3 IVITZ	Ant1	5784.5	2.19	5783.40	5785.59	>=0.5	PASS
	Ant0	5844.5	2.11	5843.45	5845.56	>=0.5	PASS
	Ant1	5844.5	2.21	5843.39	5845.60	>=0.5	PASS
	Ant0	5730.2	2.11	5729.15	5731.25	>=0.5	PASS
	Ant1	5730.2	2.19	5729.10	5731.29	>=0.5	PASS
3 MHz CA	Ant0	5787.2	2.14	5786.13	5788.27	>=0.5	PASS
3 MINZ CA	Ant1	5787.2	2.19	5786.10	5788.29	>=0.5	PASS
	Ant0	5847.2	2.11	5846.15	5848.25	>=0.5	PASS
	Ant1	5847.2	2.20	5846.10	5848.30	>=0.5	PASS

Test Mode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Verdict
	Ant1	5727.5	4.13	5725.56	5729.68	PASS
3 MHz		5784.5	3.57	5782.70	5786.27	PASS
		5844.5	4.13	5842.56	5846.69	PASS
3 MHz CA	Hz CA Ant1	5730.2	3.76	5728.27	5732.03	PASS
		5787.2	3.46	5785.38	5788.84	PASS
		5847.2	4.15	5845.26	5849.41	PASS

REPORT NO.: 4790741213-RF-2 Page 116 of 179

Test Mode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
	Ant0	5730.5	9.02	5725.98	5735.00	>=0.5	PASS
	Ant1	5730.5	9.04	5725.96	5735.00	>=0.5	PASS
10 MHz	Ant0	5787.5	9.02	5782.98	5792.00	>=0.5	PASS
10 MITZ	Ant1	5787.5	9.00	5782.98	5791.98	>=0.5	PASS
	Ant0	5844.5	9.02	5839.98	5849.00	>=0.5	PASS
	Ant1	5844.5	9.00	5839.98	5848.98	>=0.5	PASS
	Ant0	5735.5	17.96	5726.50	5744.46	>=0.5	PASS
	Ant1	5735.5	17.96	5726.50	5744.46	>=0.5	PASS
20 MHz	Ant0	5787.5	17.96	5778.50	5796.46	>=0.5	PASS
ZU WITZ	Ant1	5787.5	18.00	5778.50	5796.50	>=0.5	PASS
	Ant0	5839.5	17.92	5830.54	5848.46	>=0.5	PASS
	Ant1	5839.5	18.00	5830.50	5848.50	>=0.5	PASS
	Ant0	5745.5	35.92	5727.50	5763.42	>=0.5	PASS
	Ant1	5745.5	35.84	5727.58	5763.42	>=0.5	PASS
40 MH=	Ant0	5787.5	35.92	5769.50	5805.42	>=0.5	PASS
40 MHz	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	35.84	5811.50	5847.34	>=0.5	PASS

Test Mode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Verdict
10 MHz	Ant0	5730.5	15.18	5722.70	5737.88	PASS
	Ant1	5730.5	11.00	5725.04	5736.04	PASS
	Ant0	5787.5	17.78	5778.96	5796.74	PASS
IU WITZ	Ant1	5787.5	10.30	5782.38	5792.68	PASS
	Ant0	5844.5	10.62	5839.16	5849.78	PASS
	Ant1	5844.5	10.64	5839.18	5849.82	PASS
	Ant0	5735.5	19.24	5725.82	5745.06	PASS
	Ant1	5735.5	18.96	5725.98	5744.94	PASS
20 MHz	Ant0	5787.5	19.24	5777.78	5797.02	PASS
20 IVITZ	Ant1	5787.5	19.16	5777.82	5796.98	PASS
	Ant0	5839.5	19.72	5829.74	5849.46	PASS
	Ant1	5839.5	19.36	5829.74	5849.10	PASS
	Ant0	5745.5	37.60	5726.70	5764.30	PASS
	Ant1	5745.5	37.52	5726.54	5764.06	PASS
40 MHz	Ant0	5787.5	37.60	5768.54	5806.14	PASS
	Ant1	5787.5	37.76	5768.38	5806.14	PASS
	Ant0	5829.5	37.68	5810.54	5848.22	PASS
	Ant1	5829.5	37.60	5810.62	5848.22	PASS

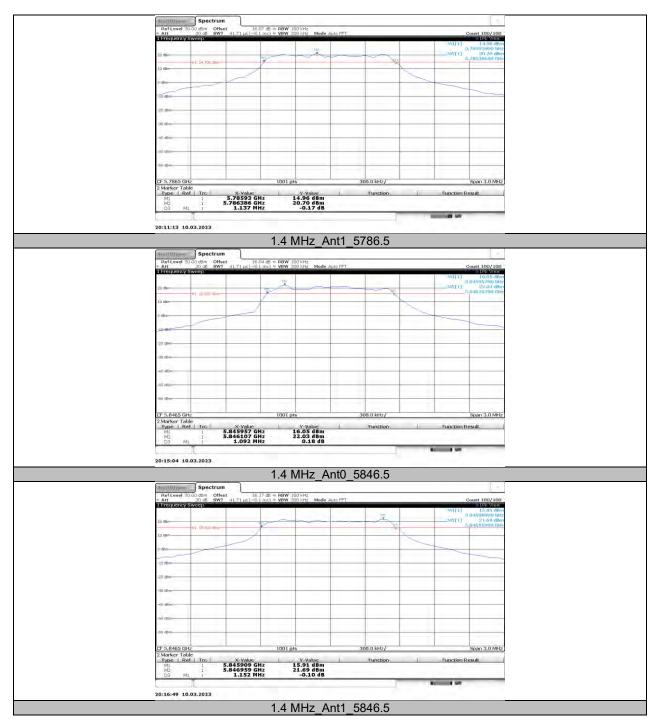
Note: All the modes and antennas had been tested, but only the worst data was recorded in the report.



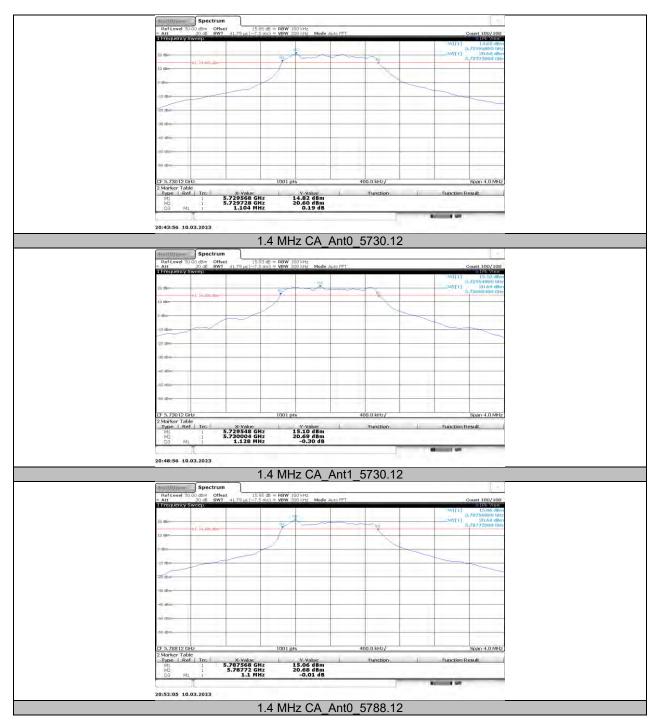
11.1.2. Test Graphs



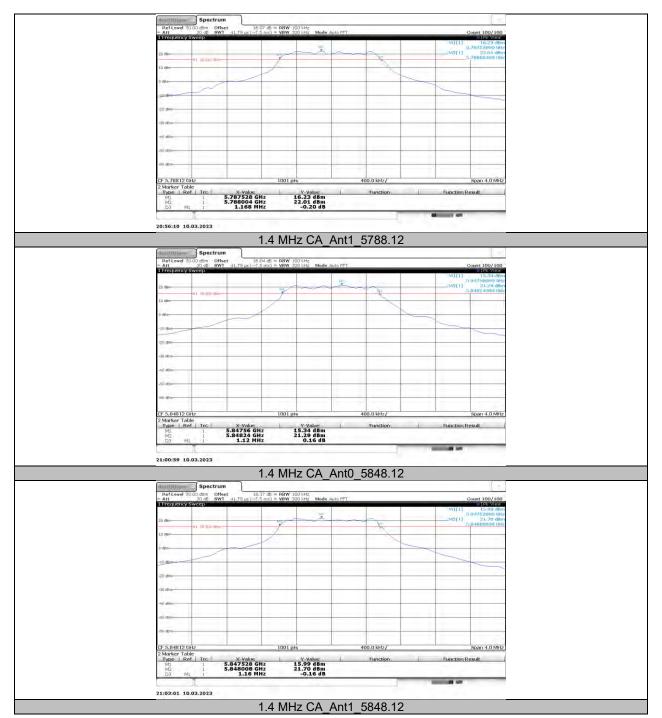
























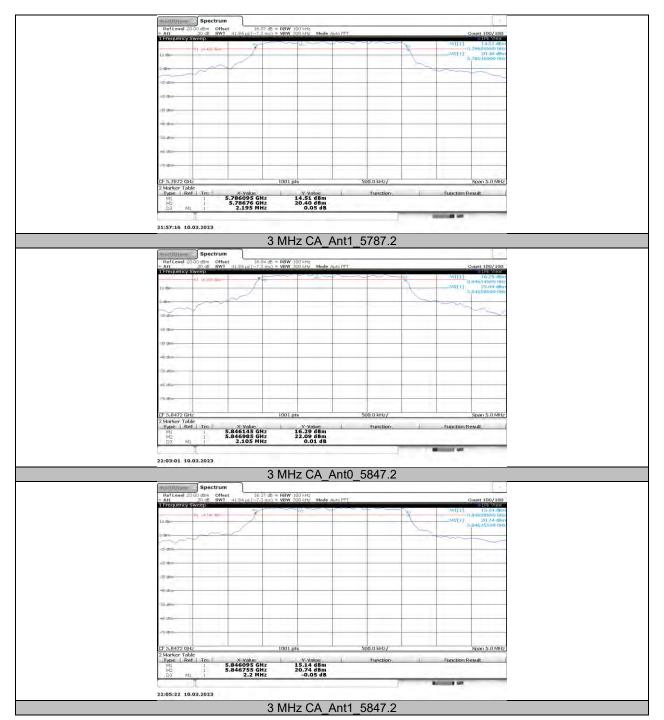








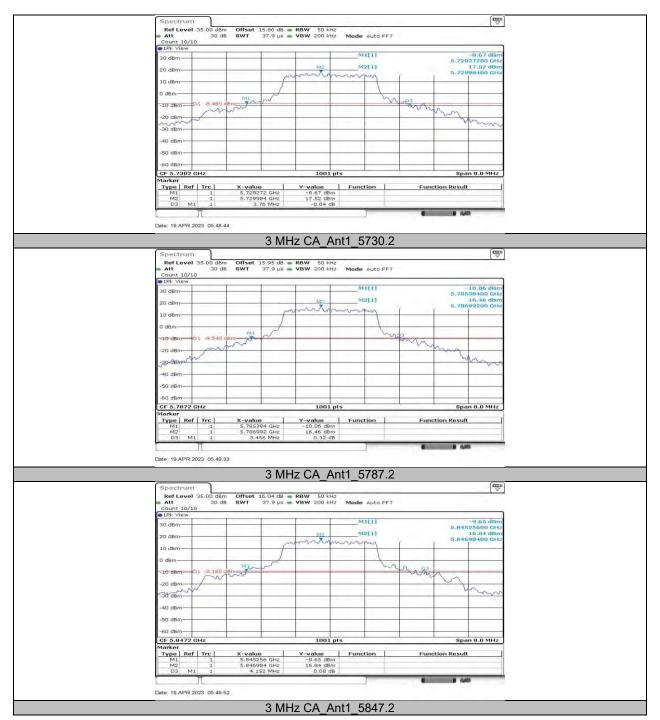




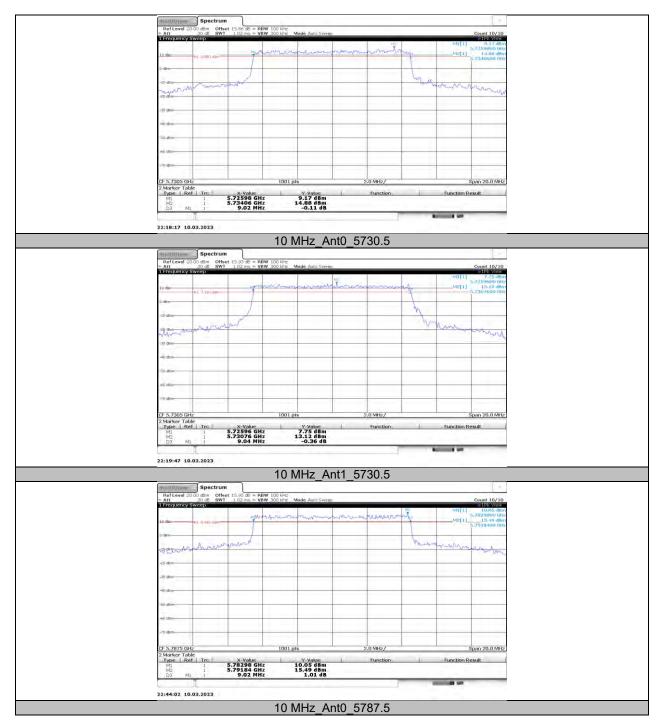




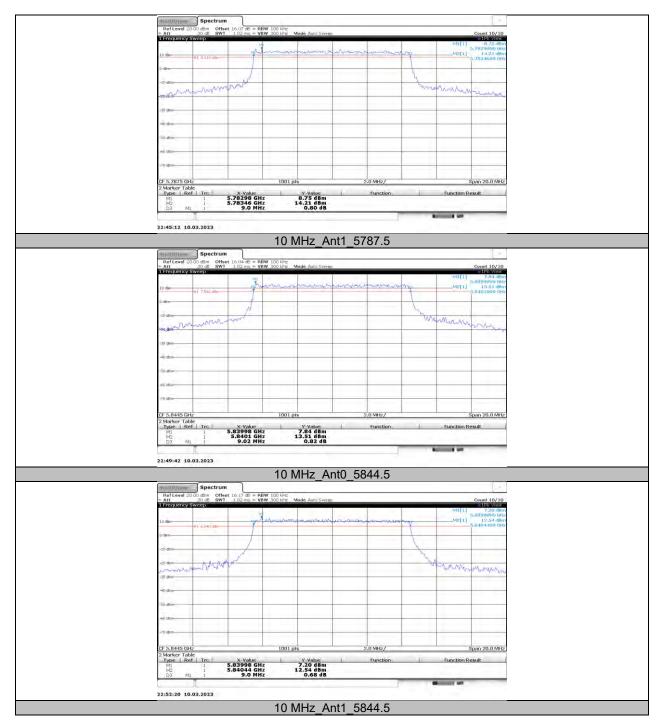




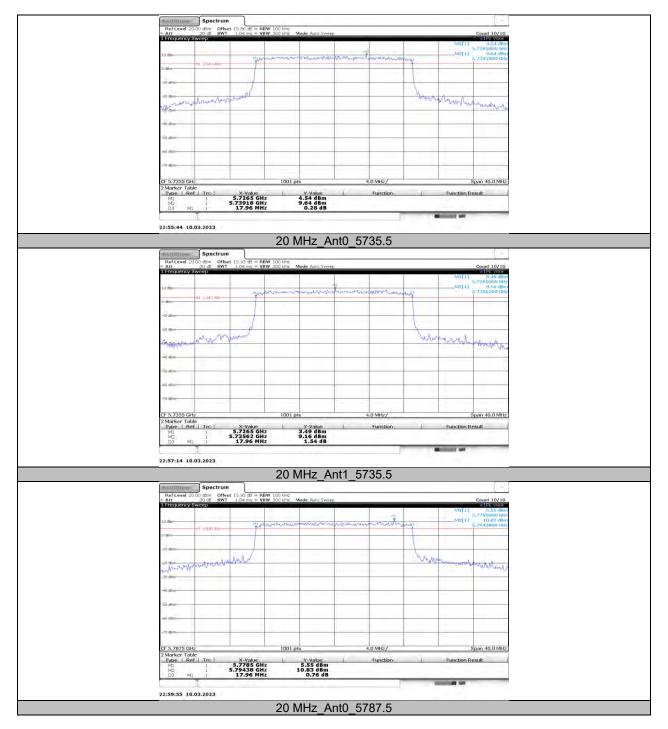




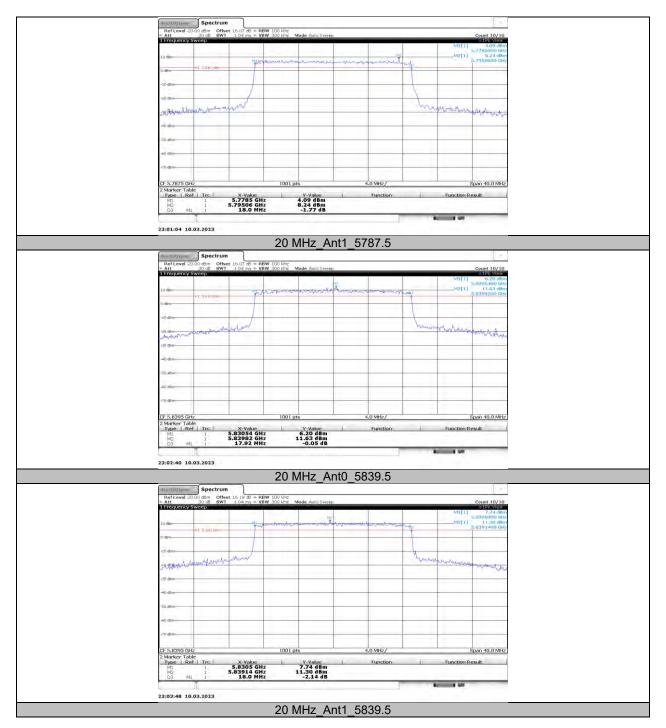




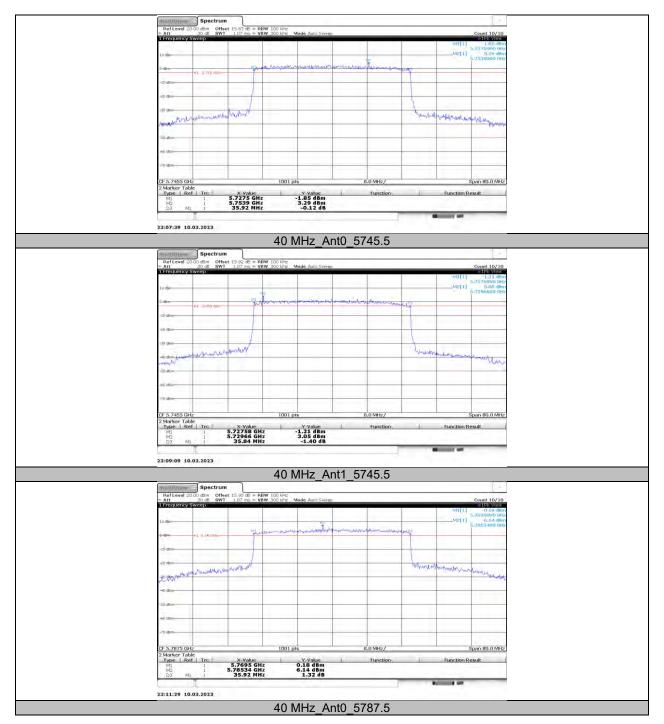




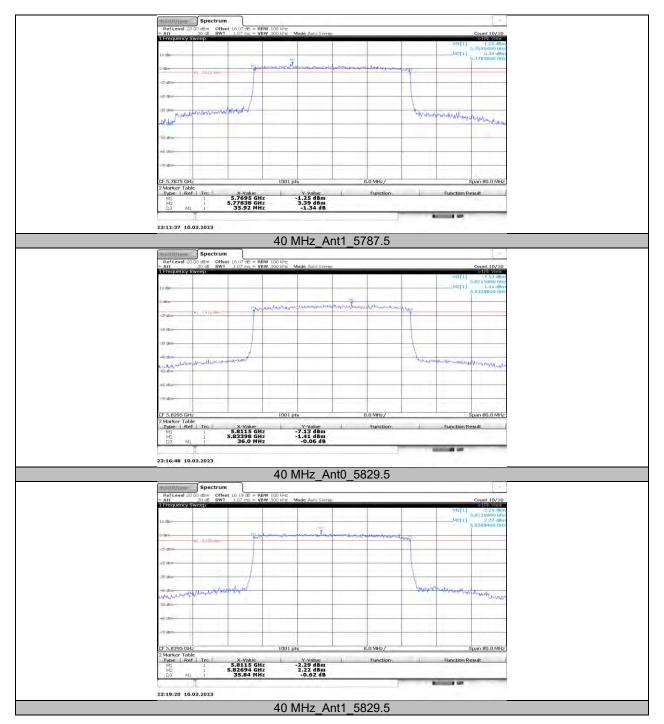




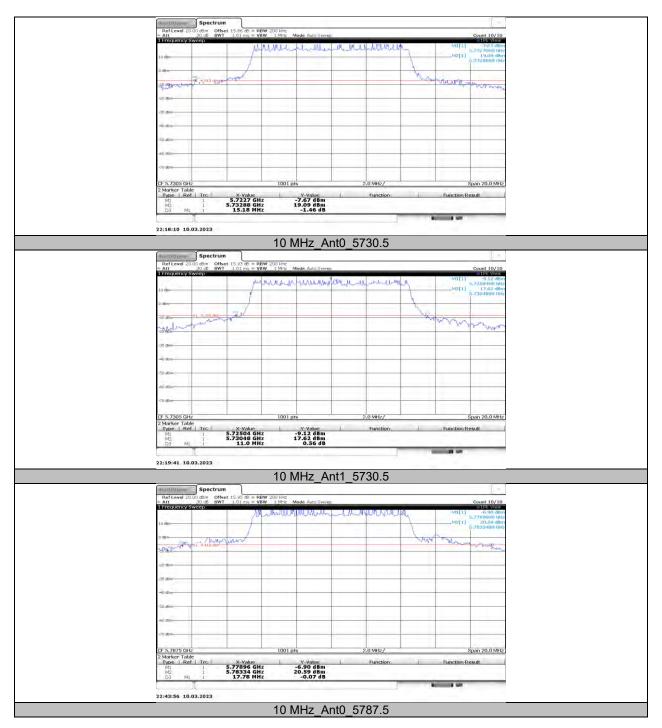




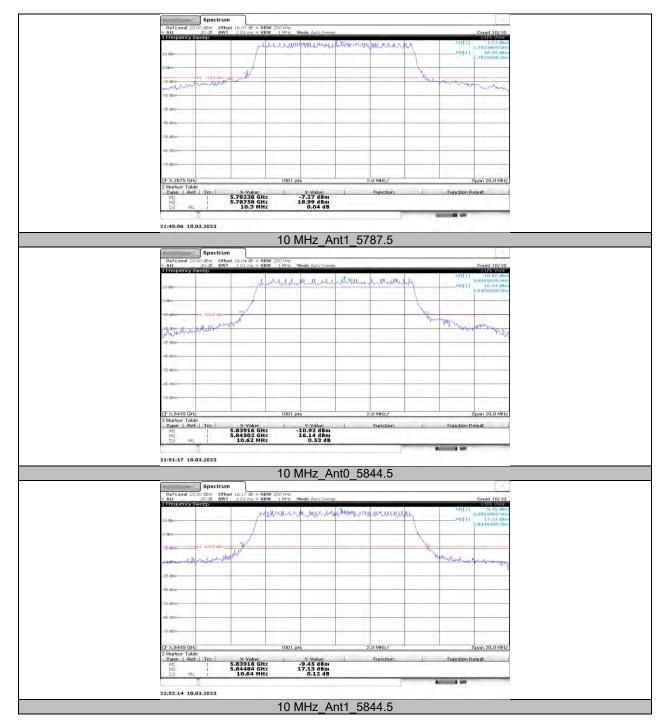




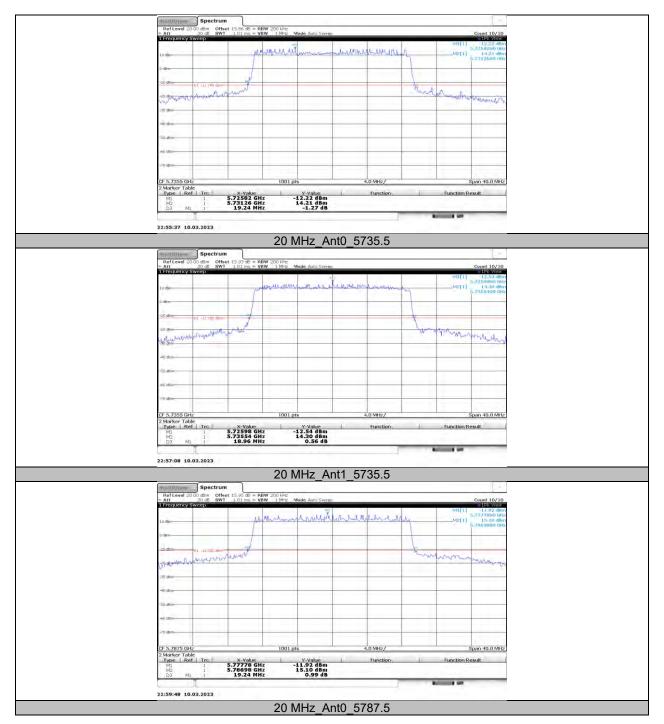




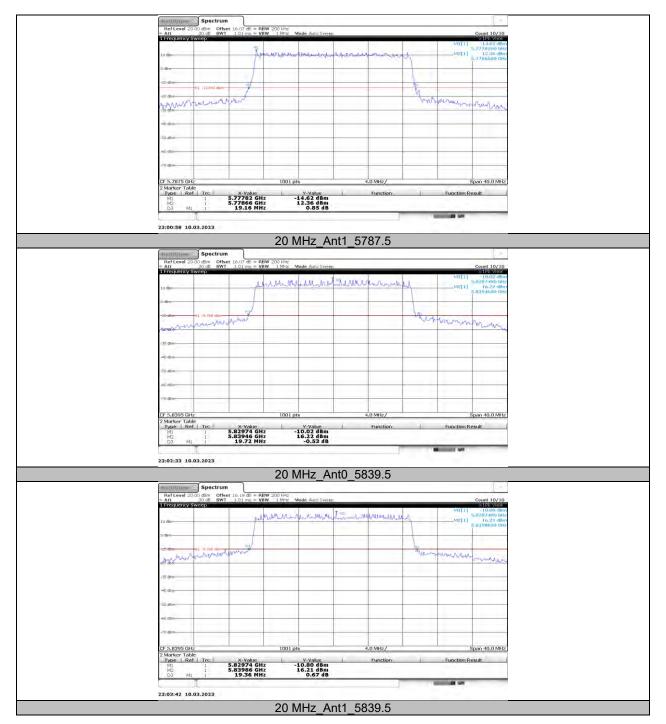




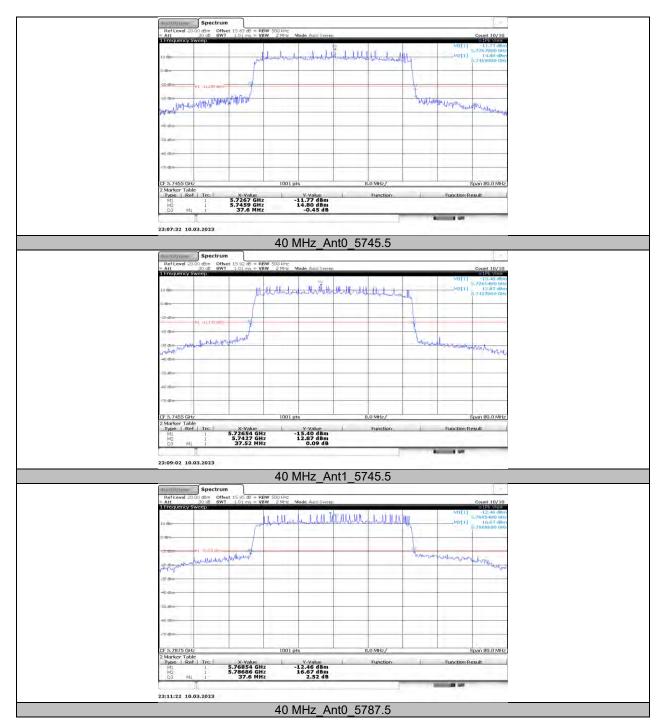




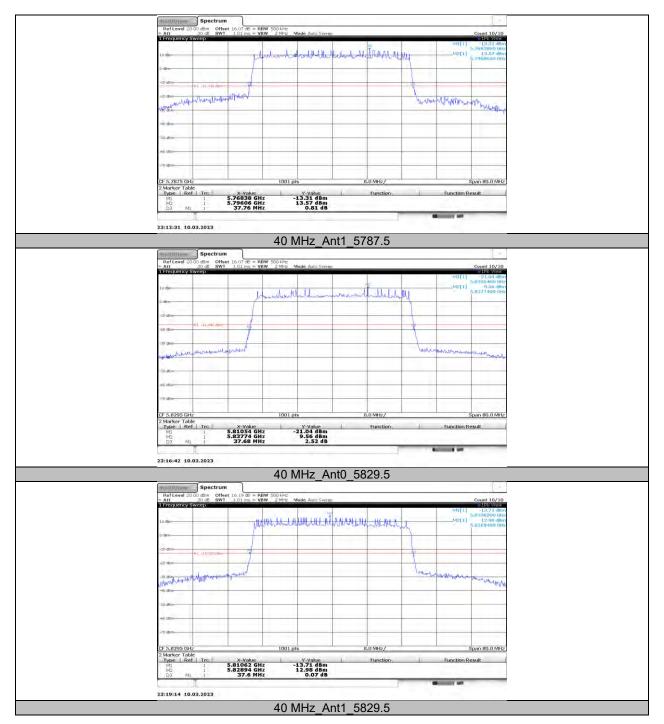












REPORT NO.: 4790741213-RF-2 Page 141 of 179

11.2. APPENDIX A2: OCCUPIED CHANNEL BANDWIDTH 11.2.1. Test Result

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
	Ant0	5728.5	1.289	5727.8363	5729.1253		
	Ant1	5728.5	1.227	5727.8823	5729.1091		
1.4 MHz	Ant0	5786.5	1.282	5785.8588	5787.1410		
1.4 IVITZ	Ant1	5786.5	1.37	5785.8152	5787.1848		
	Ant0	5846.5	1.257	5845.8957	5847.1528		
	Ant1	5846.5	1.404	5845.7742	5847.1784	-	
	Ant0	5730.12	1.289	5729.5200	5730.8092		
	Ant1	5730.12	1.4	5729.4150	5730.8150		
1.4 MHz CA	Ant0	5788.12	1.275	5787.5360	5788.8106		
1.4 IVITZ CA	Ant1	5788.12	1.449	5787.3544	5788.8035		
	Ant0	5848.12	1.338	5847.4745	5848.8123		
	Ant1	5848.12	1.412	5847.3882	5848.8000		

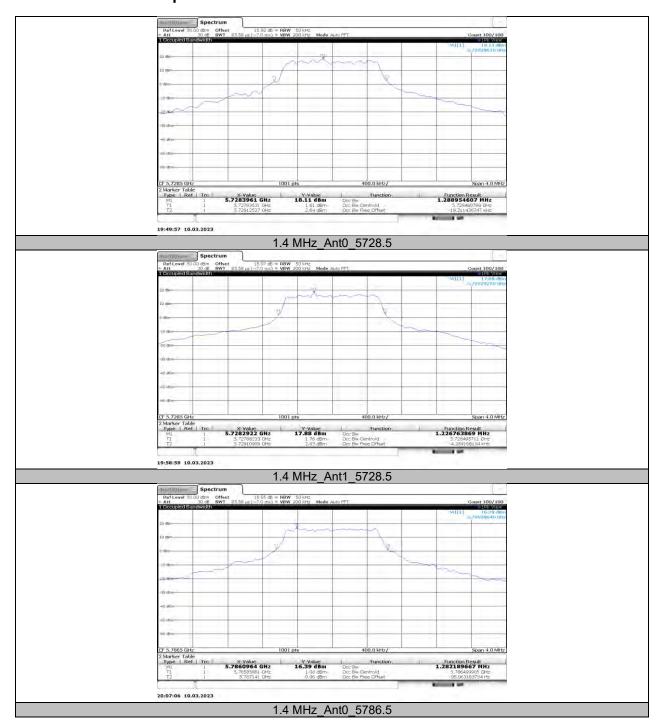
Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
	Ant0	5727.5	2.213	5726.3767	5728.5897		
	Ant1	5727.5	2.228	5726.3699	5728.5979		
3 MHz	Ant0	5784.5	2.229	5783.3646	5785.5940		
3 IVITZ	Ant1	5784.5	2.697	5783.0696	5785.7662		
	Ant0	5844.5	2.358	5843.2709	5845.6292	-	
	Ant1	5844.5	2.397	5843.2496	5845.6463	-	
	Ant0	5730.2	2.339	5728.9872	5731.3263	-	
	Ant1	5730.2	2.26	5729.0431	5731.3029		
3 MHz CA	Ant0	5787.2	2.269	5786.0328	5788.3020		
3 IVITIZ CA	Ant1	5787.2	2.353	5785.9708	5788.3236		
	Ant0	5847.2	2.351	5845.9826	5848.3338		
	Ant1	5847.2	2.381	5845.9522	5848.3330		

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
	Ant0	5730.5	9.46	5725.7669	5735.2270		
	Ant1	5730.5	9.398	5725.8110	5735.2089		
10 MHz	Ant0	5787.5	9.434	5782.7903	5792.2239		
10 MITZ	Ant1	5787.5	9.324	5782.8278	5792.1520		
	Ant0	5844.5	9.49	5839.8071	5849.2971		
	Ant1	5844.5	9.325	5839.8416	5849.1668		
	Ant0	5735.5	17.892	5726.5111	5744.4034		
	Ant1	5735.5	17.784	5726.5795	5744.3638		
20 MHz	Ant0	5787.5	17.958	5778.5391	5796.4973		
ZU IVITIZ	Ant1	5787.5	17.969	5778.4756	5796.4450		
	Ant0	5839.5	17.948	5830.5179	5848.4655		
	Ant1	5839.5	17.989	5830.5015	5848.4908		
	Ant0	5745.5	35.894	5727.4354	5763.3291		
	Ant1	5745.5	35.601	5727.5522	5763.1533		
40 MHz	Ant0	5787.5	36.189	5769.4576	5805.6465		
40 MINZ	Ant1	5787.5	35.831	5769.5374	5805.3683		
	Ant0	5829.5	35.559	5811.7605	5847.3191		
	Ant1	5829.5	35.72	5811.6079	5847.3278		

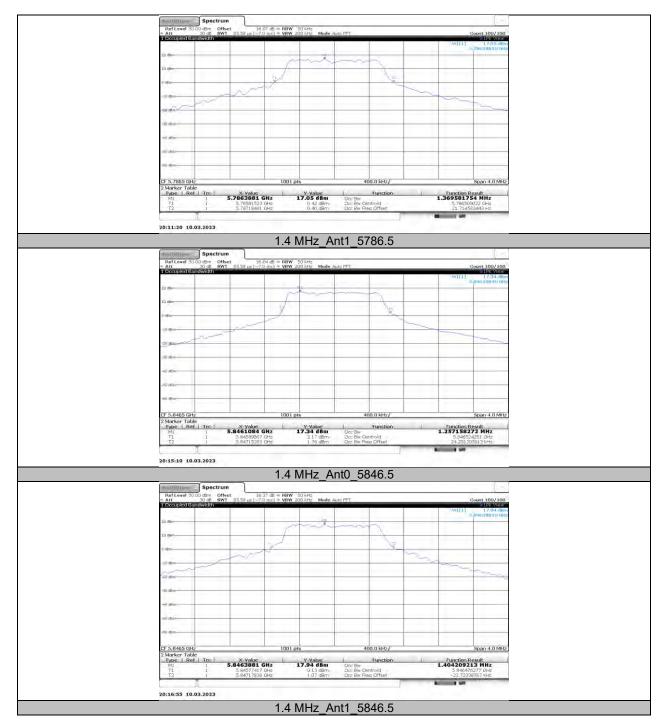
Note: All the modes and antennas had been tested, but only the worst data was recorded in the report.



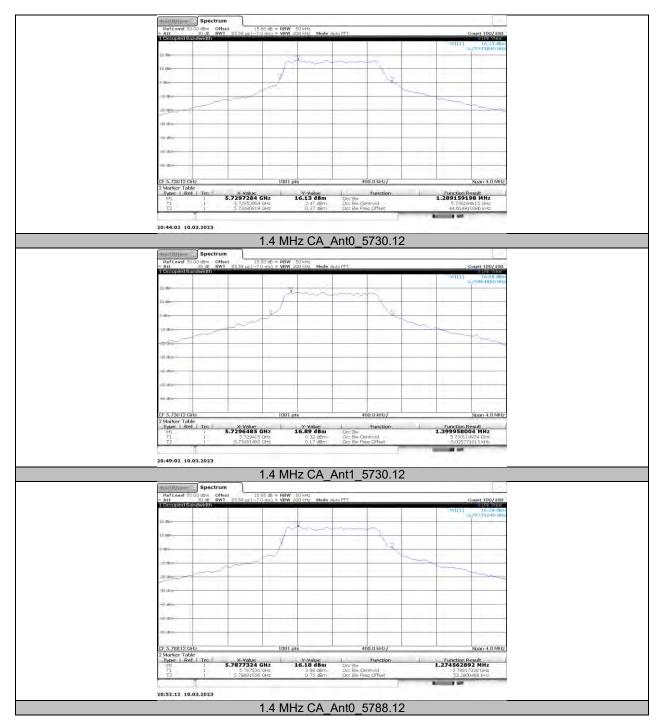
11.2.2. Test Graphs



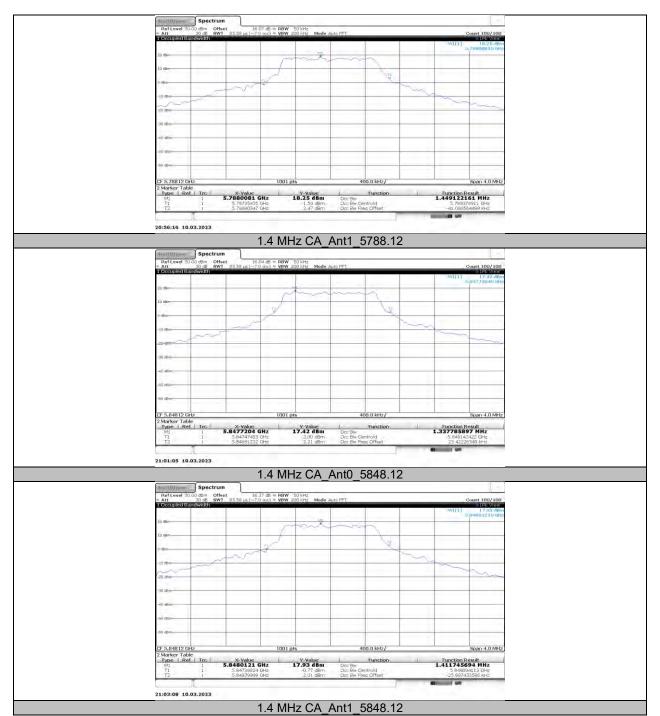




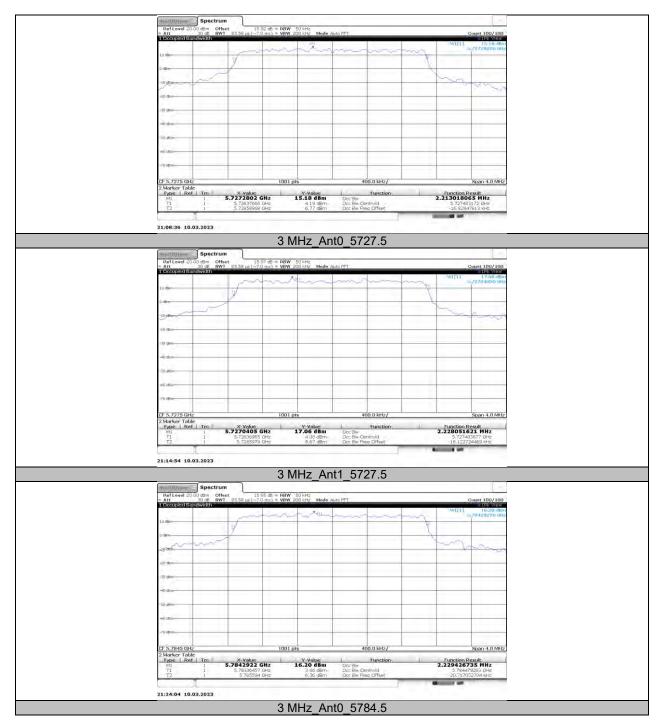








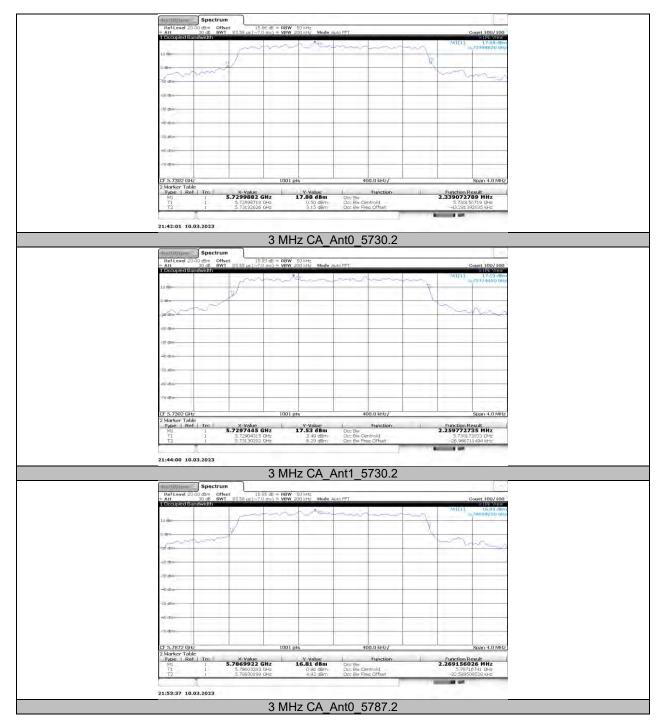




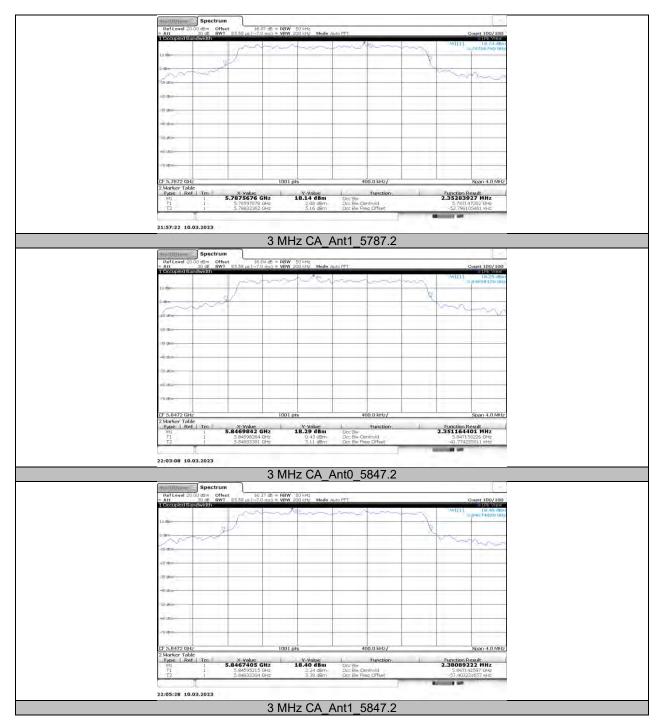




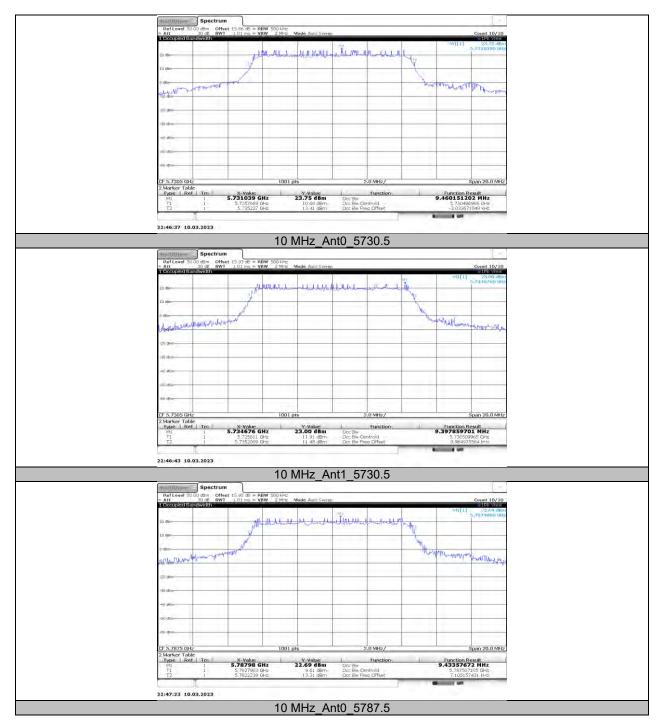




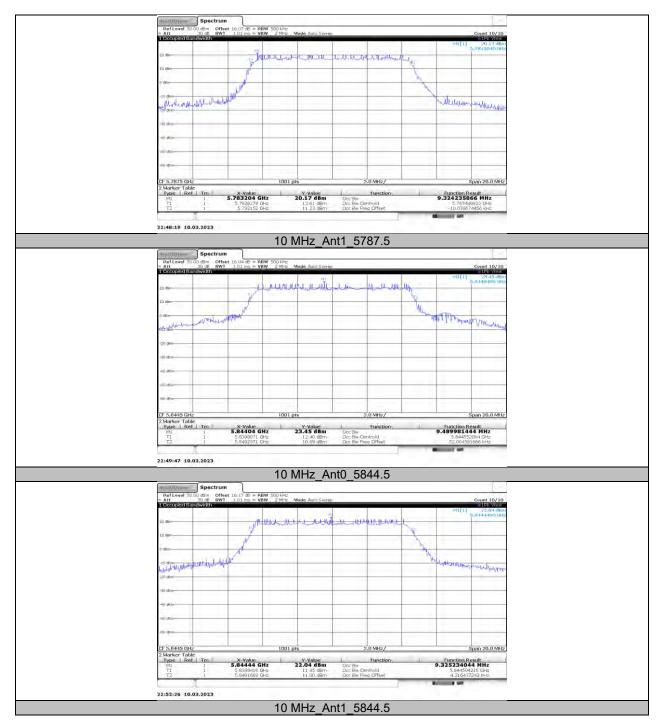




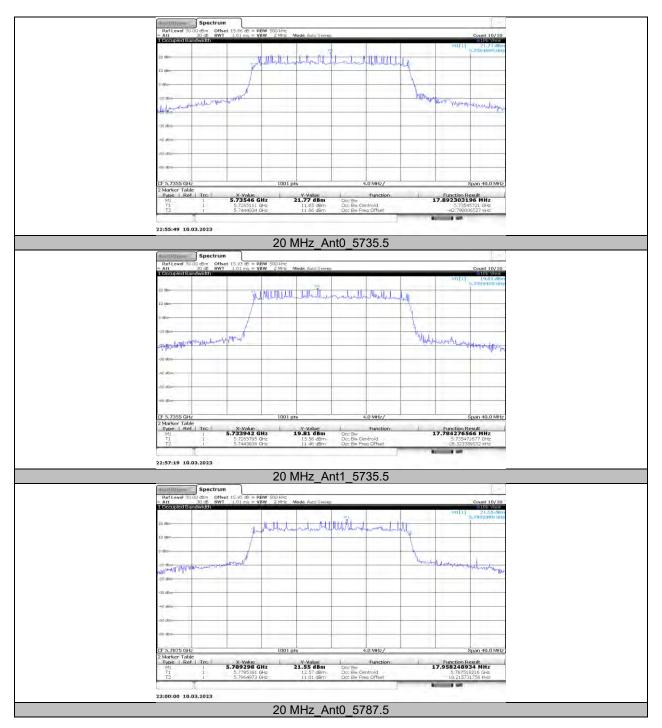




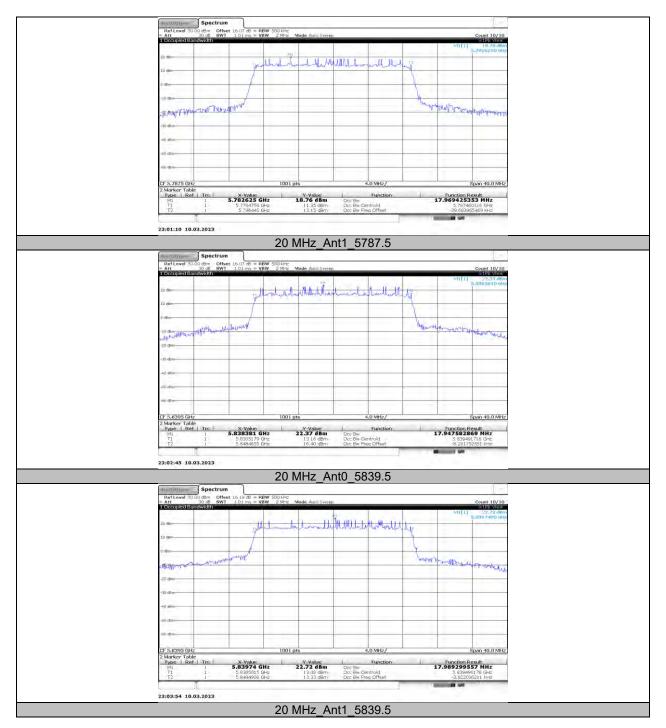




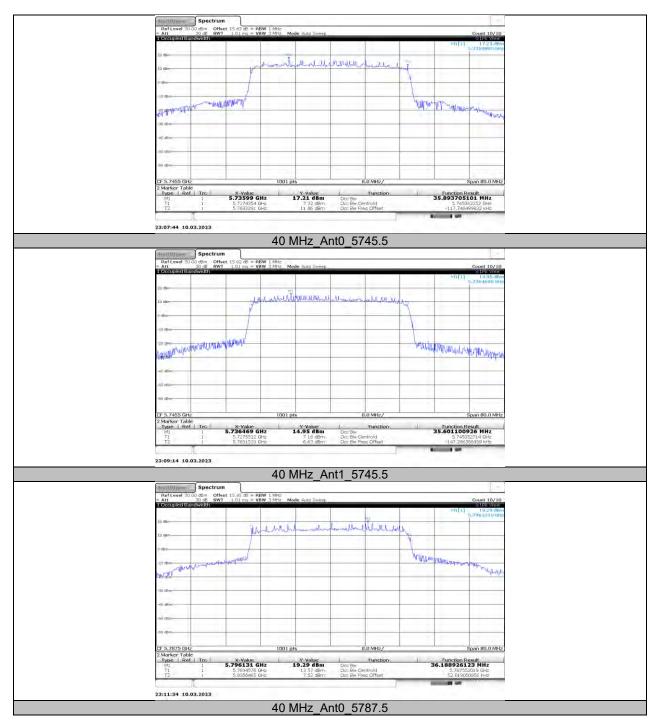




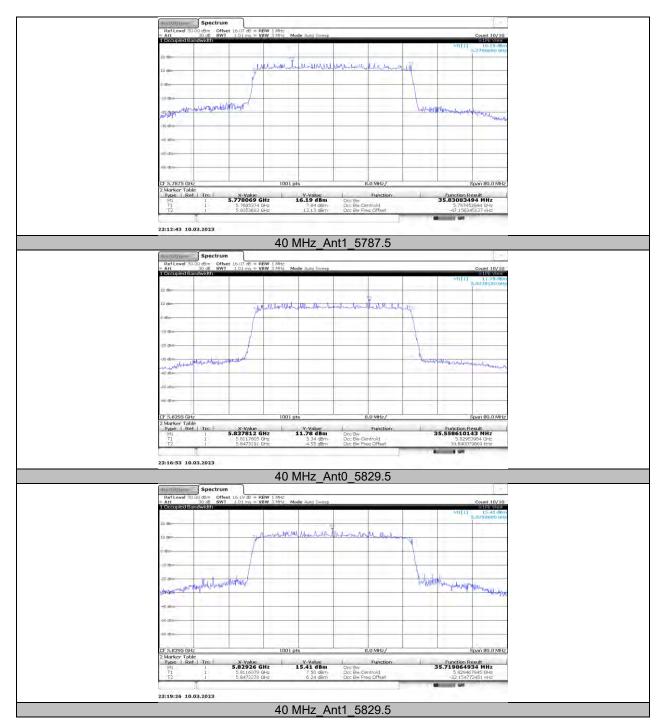














REPORT NO.: 4790741213-RF-2 Page 156 of 179

11.3. APPENDIX B: MAXIMUM AVERAGE OUTPUT POWER 11.3.1. Test Result

Mode	Frequency	Average Condu	Limit		
	(MHz)	ANT0	ANT1	Total	(dBm)
	5728.5	21.99	21.98	25.00	≤30
1.4 MHz	5786.5	21.06	21.79	24.45	≤30
	5846.5	21.32	22.10	24.74	≤30
	5730.12	21.59	21.30	24.46	≤30
1.4 MHz CA	5788.12	21.90	22.80	25.38	≤30
	5848.12	22.25	22.25	25.26	≤30
	5727.5	21.86	21.73	24.81	≤30
3 MHz	5784.5	21.39	22.47	24.97	≤30
	5844.5	22.11	22.63	25.39	≤30
	5730.2	21.58	22.18	24.90	≤30
3 MHz CA	5787.2	21.22	22.30	24.80	≤30
	5847.2	21.92	22.47	25.21	≤30
	5730.5	21.17	21.07	24.13	≤30
10 MHz	5787.5	22.22	21.03	24.68	≤30
	5844.5	20.72	21.74	24.27	≤30
	5735.5	21.90	21.11	24.53	≤30
20 MHz	5787.5	22.36	20.87	24.69	≤30
	5839.5	21.08	21.73	24.43	≤30
	5745.5	18.25	17.11	20.73	≤30
40 MHz	5787.5	18.08	16.59	20.41	≤30
	5829.5	17.29	17.93	20.63	≤30



REPORT NO.: 4790741213-RF-2 Page 157 of 179

20.69

Average Conducted Output Power (dBm) Frequency Mode Limit (MHz) (dBm) ANT0 ANT3 Total 5728.5 22.24 22.48 25.37 ≤30 1.4 MHz 5786.5 22.02 22.84 25.46 ≤30 5846.5 22.37 22.91 25.66 ≤30 22.45 ≤30 5730.12 22.04 25.26 1.4 MHz CA 5788.12 22.24 22.06 25.16 ≤30 5848.12 21.79 22.14 24.98 ≤30 5727.5 21.46 21.73 ≤30 24.61 5784.5 22.03 ≤30 3 MHz 22.16 25.11 5844.5 22.02 21.83 24.94 ≤30 5730.2 22.00 22.04 25.03 ≤30 ≤30 3 MHz CA 5787.2 21.73 22.20 24.98 5847.2 ≤30 21.57 21.65 24.62 5730.5 21.51 22.00 ≤30 24.77 10 MHz 22.64 ≤30 5787.5 20.47 24.70 5844.5 21.36 21.79 ≤30 24.59 5735.5 21.21 21.71 24.48 ≤30 20 MHz 5787.5 21.90 20.01 24.07 ≤30 5839.5 21.45 21.97 24.73 ≤30 5745.5 17.63 16.82 20.25 ≤30 40 MHz 5787.5 18.30 16.55 20.52 ≤30 5829.5 17.50 17.85 ≤30



REPORT NO.: 4790741213-RF-2 Page 158 of 179

Mode	Frequency	Average Con	ducted Output P	ower (dBm)	Limit
Mode	(MHz)	ANT2	ANT1	Total	(dBm)
	5728.5	22.01	22.72	25.39	≤30
1.4 MHz	5786.5	22.04	21.34	24.71	≤30
	5846.5	22.70	21.84	25.30	≤30
	5730.12	21.17	22.48	24.88	≤30
1.4 MHz CA	5788.12	22.66	22.10	25.40	≤30
	5848.12	22.49	21.88	25.21	≤30
	5727.5	21.79	22.60	25.22	≤30
3 MHz	5784.5	22.56	22.15	25.37	≤30
	5844.5	22.66	22.33	25.51	≤30
	5730.2	22.00	23.21	25.66	≤30
3 MHz CA	5787.2	22.76	22.32	25.56	≤30
	5847.2	23.27	22.18	25.77	≤30
	5730.5	21.31	22.90	25.19	≤30
10 MHz	5787.5	21.04	23.00	25.14	≤30
	5844.5	22.25	21.79	25.04	≤30
	5735.5	21.40	22.76	25.14	≤30
20 MHz	5787.5	20.22	22.64	24.61	≤30
	5839.5	22.15	21.17	24.70	≤30
	5745.5	16.69	18.43	20.66	≤30
40 MHz	5787.5	16.51	18.48	20.62	≤30
	5829.5	17.80	16.84	20.36	≤30



REPORT NO.: 4790741213-RF-2 Page 159 of 179

Frequency Average Conducted Output Power (dBm) Limit Mode (MHz) (dBm) ANT2 ANT3 Total 5728.5 21.91 21.88 24.91 ≤30 22.26 22.82 1.4 MHz 5786.5 25.56 ≤30 5846.5 21.97 22.27 25.13 ≤30 5730.12 22.01 22.43 25.24 ≤30 5788.12 21.67 22.75 25.25 ≤30 1.4 MHz CA 22.38 22.53 ≤30 5848.12 25.47 5727.5 22.10 22.98 25.57 ≤30 5784.5 22.04 22.70 ≤30 25.39 3 MHz 22.20 5844.5 22.27 25.25 ≤30 5730.2 22.33 23.01 25.69 ≤30 3 MHz CA 5787.2 22.58 22.78 25.69 ≤30 5847.2 22.10 22.61 25.37 ≤30 5730.5 21.47 ≤30 21.03 24.27 ≤30 10 MHz 5787.5 22.32 20.18 24.39 5844.5 21.01 21.15 24.09 ≤30 ≤30 5735.5 20.89 21.38 24.15 20 MHz 5787.5 22.19 20.05 24.26 ≤30 5839.5 20.89 21.15 24.03 ≤30 5745.5 17.28 16.47 ≤30 19.90 40 MHz 5787.5 18.44 16.66 20.65 ≤30

Note: 1. Conducted Power=Meas. Level+ Correction Factor

5829.5

16.90

19.71

≤30

16.50

^{2.} The Duty Cycle Factor (refer to section 7.1) had already compensated to the test data.



REPORT NO.: 4790741213-RF-2

Page 160 of 179

11.4. APPENDIX C: MAXIMUM POWER SPECTRAL DENSITY 11.4.1. Test Result

Mode	Frequency (MHz)	PSD 5150-5725MHz(dBm/MHz) 5725-5850MHz(dBm/500kHz)			Limit 5150-5725MHz(dBm/MHz) 5725-5850MHz(dBm/500kHz)	
		ANT0	ANT1	Total	3723-3030WHZ(dBH//300KHZ)	
	5728.5	17.390	18.100	20.770	≤30	
1.4 MHz	5786.5	17.980	17.260	20.645	≤30	
	5846.5	18.800	17.660	21.278	≤30	
	5730.12	16.960	18.050	20.549	≤30	
1.4 MHz CA	5788.12	18.390	17.720	21.078	≤30	
	5848.12	18.540	17.720	21.160	≤30	
	5727.5	17.560	15.990	19.856	≤30	
3 MHz	5784.5	19.110	15.730	20.751	≤30	
	5844.5	18.760	16.100	20.641	≤30	
	5730.2	18.400	17.170	20.839	≤30	
3 MHz CA	5787.2	18.970	15.920	20.718	≤30	
	5847.2	19.160	16.710	21.116	≤30	
	5730.5	9.660	11.180	13.496	≤30	
10 MHz	5787.5	9.940	12.000	14.101	≤30	
	5844.5	10.550	10.330	13.452	≤30	
	5735.5	7.210	8.560	10.948	≤30	
20 MHz	5787.5	6.130	8.300	10.359	≤30	
	5839.5	7.900	6.850	10.417	≤30	
	5745.5	-0.820	1.580	3.554	≤30	
40 MHz	5787.5	-0.340	1.530	3.705	≤30	
	5829.5	0.560	-0.440	3.099	≤30	

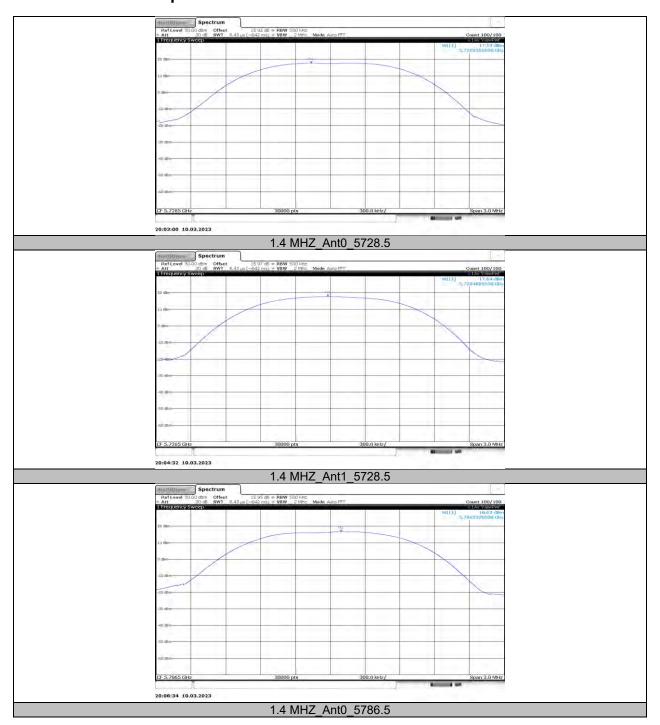
Note: 1. The Result and Limit Unit is dBm/500 kHz in the band 5.725 ~ 5.85 GHz.

^{2.} The Duty Cycle Factor and RBW Factor is compensated in the graph.

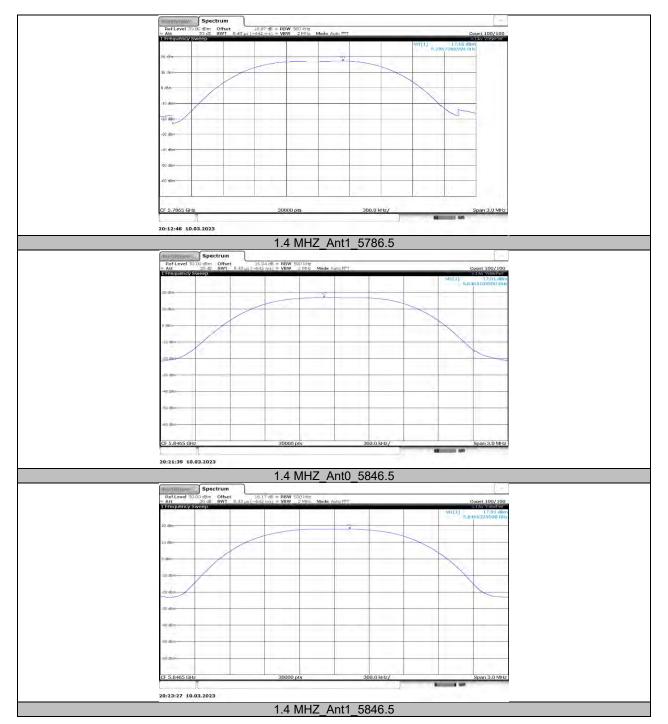
^{3.} All the modes and antennas had been tested, but only the worst data was recorded in the report.



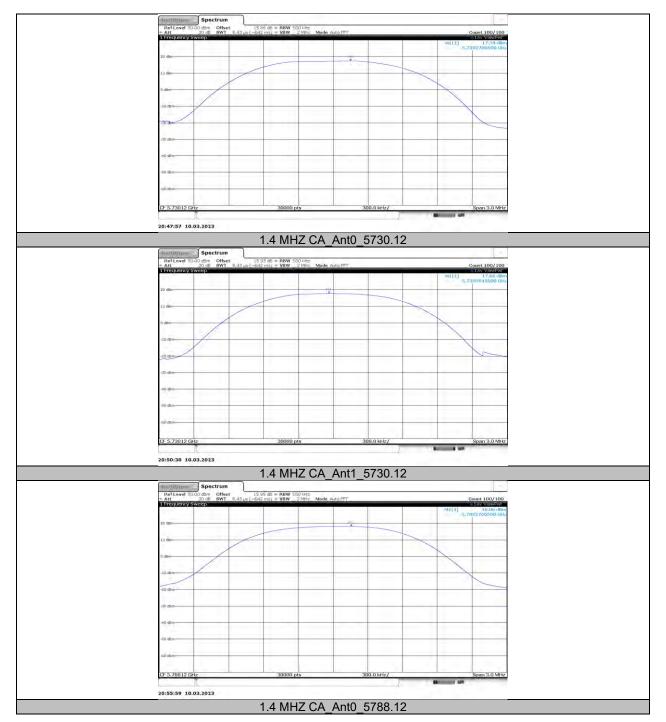
11.4.2. Test Graphs



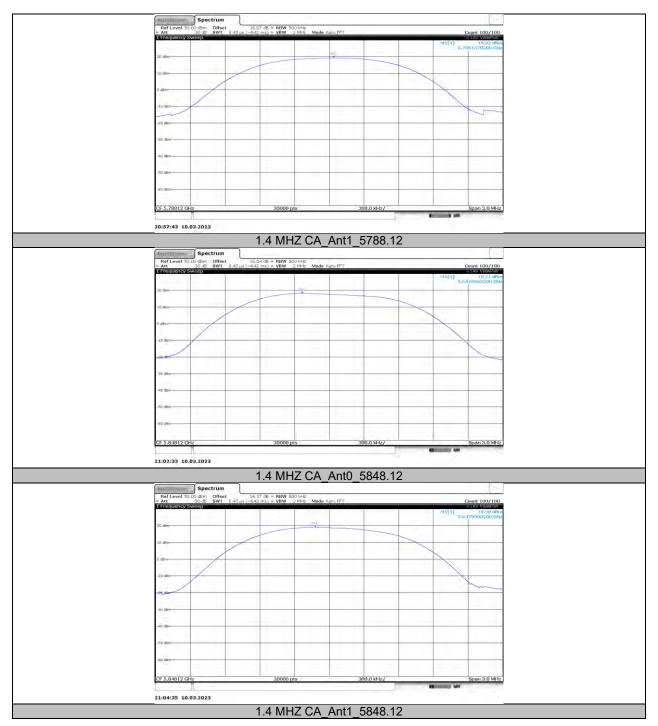




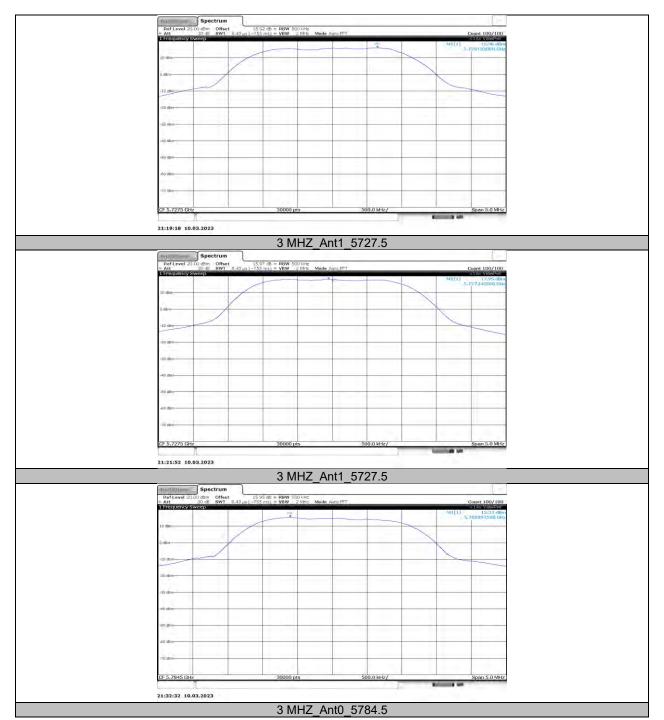




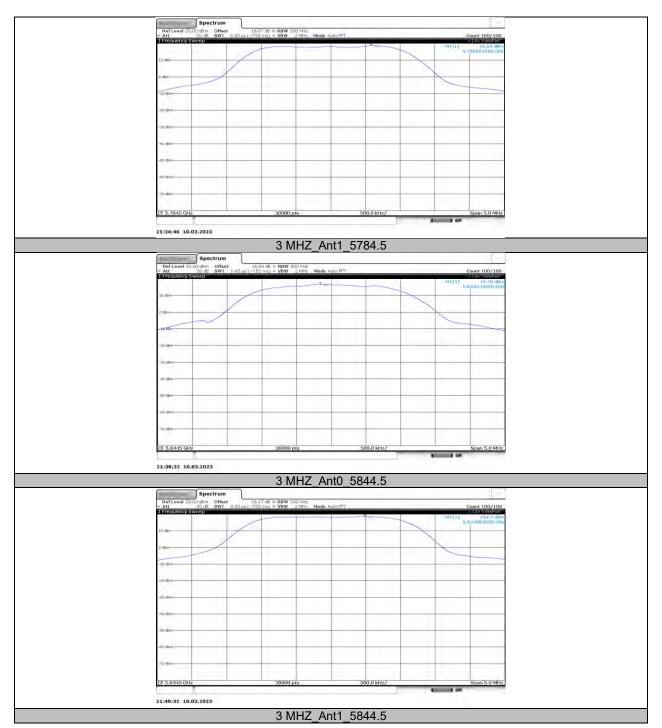




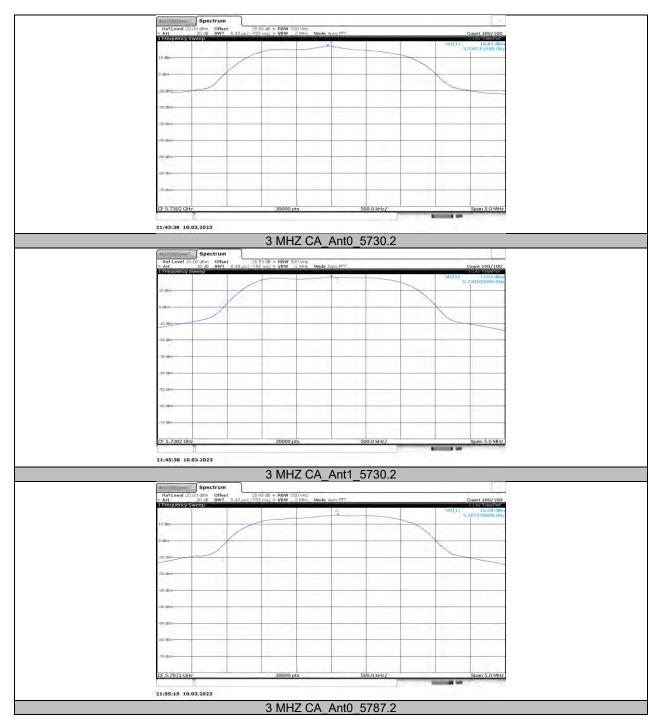




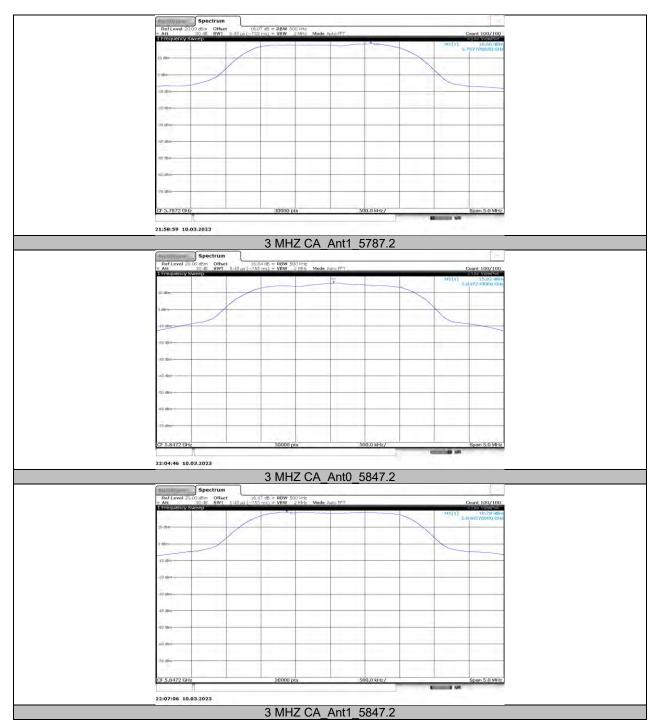




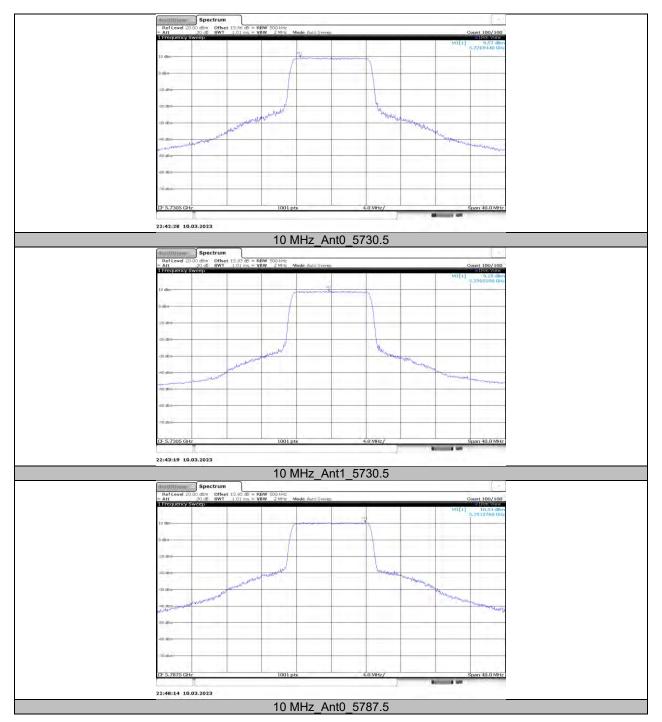




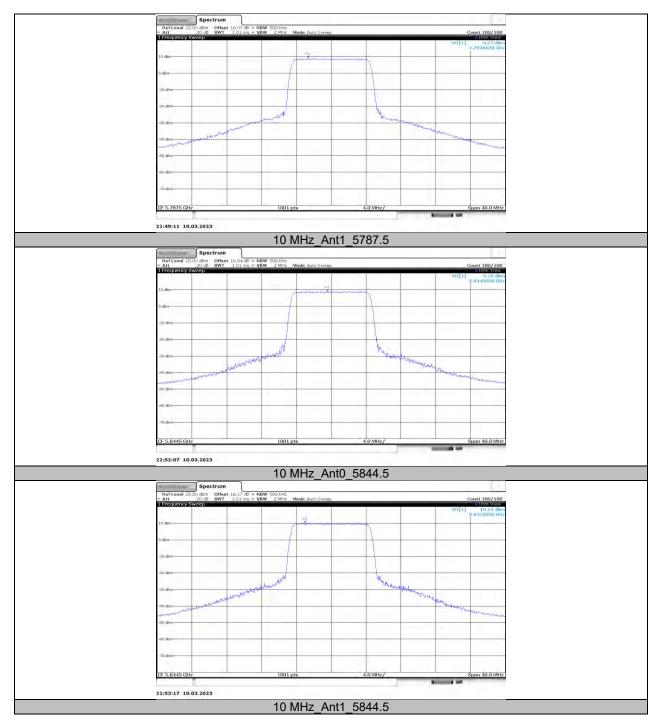




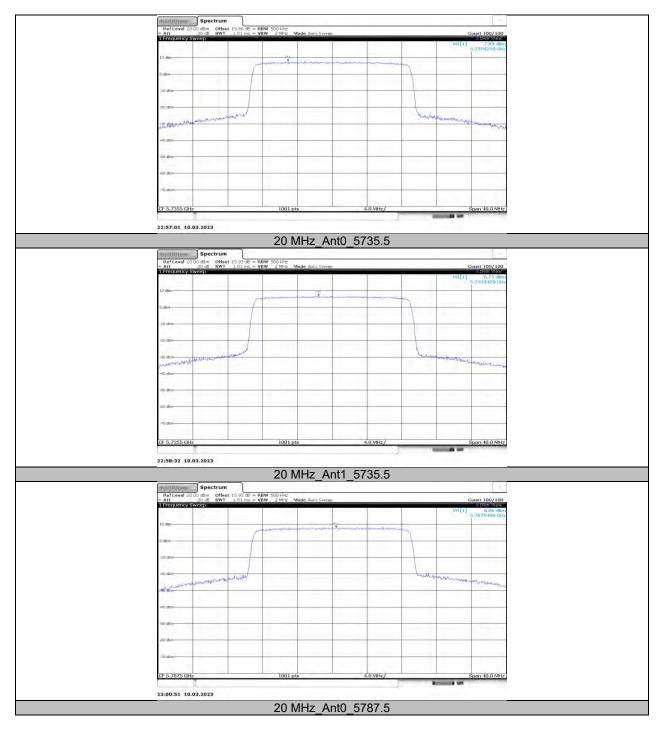




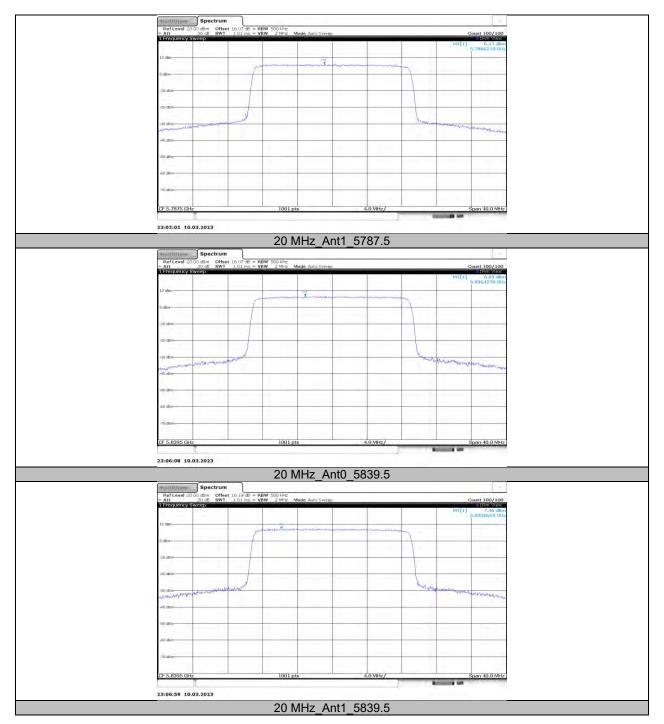




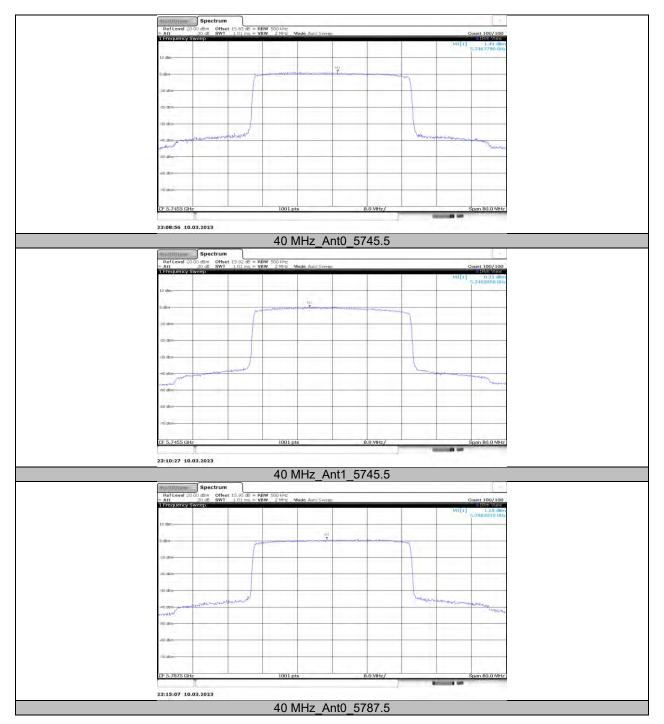




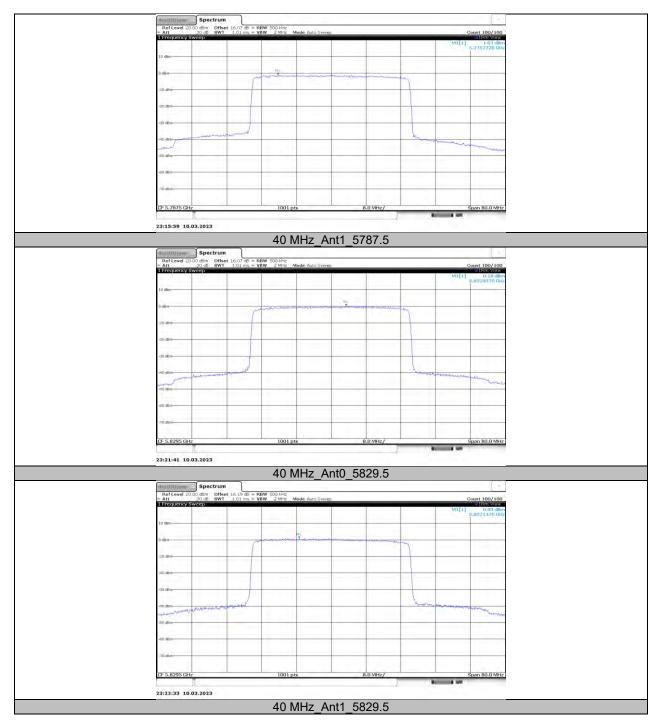














REPORT NO.: 4790741213-RF-2

Page 175 of 179

11.5. APPENDIX D: DUTY CYCLE 11.5.1. Test Result

Test Mode	Antenna	Channel	ON Time [ms]	Period [ms]	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
1.4 MHz	Ant0	5728.5	50.00	50.00	1.0000	100.00	0.00
1.4 MHz CA	Ant0	5730.12	50.00	50.00	1.0000	100.00	0.00

Test Mode	Antenna	Channel	ON Time [ms]	Period [ms]	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
3 MHz	Ant0	5727.5	50.00	50.00	1.0000	100.00	0.00
3 MHz CA	Ant0	5730.2	50.00	50.00	1.0000	100.00	0.00

Test Mode	Antenna	Channel	ON Time [ms]	Period [ms]	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
10 MHz	Ant0	5730.5	30.00	30.00	1.0000	100.00	0.00
20 MHz	Ant0	5735.5	30.00	30.00	1.0000	100.00	0.00
40 MHz	Ant0	5745.5	30.00	30.00	1.0000	100.00	0.00

Note:

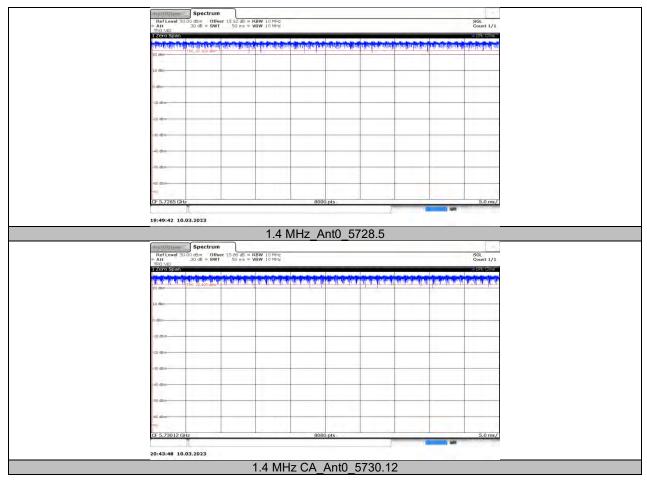
Duty Cycle Correction Factor=10log (1/x). Where: x is Duty Cycle (Linear)

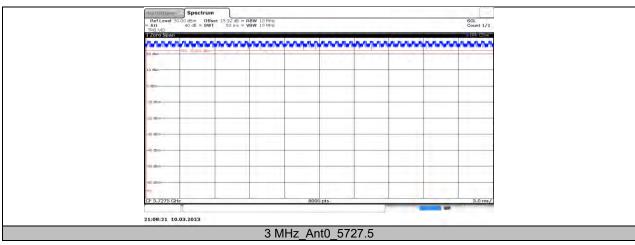
Where: T is On Time

If that calculated VBW is not available on the analyzer then the next higher value should be used. Note: All the modes and antennas had been tested, but only the worst data was recorded in the report.

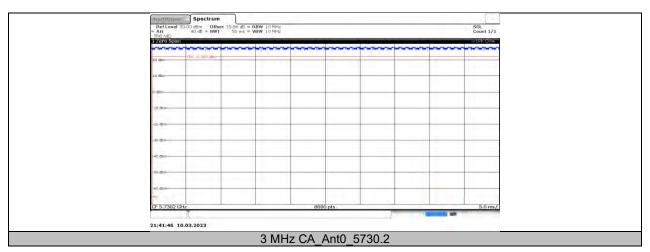


11.5.2. Test Graphs



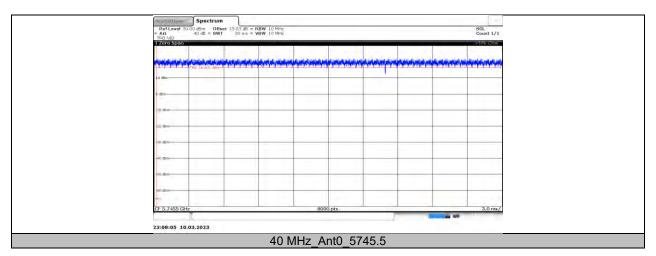














REPORT NO.: 4790741213-RF-2

Page 179 of 179

11.6. APPENDIX E: FREQUENCY STABILITY 11.6.1. Test Result

	Frequency Error vs. Voltage									
				1.4 MHz	z Mode: 5786.5	MHz				
_		0 Minute		2 Minute		5 Minute		10 Minute		
Temp.	Volt.	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	
T _N	V_L	5786.5006	0.10	5786.5056	0.96	5786.5097	1.68	5786.4921	-1.37	
T _N	V _N	5786.5216	3.74	5786.5109	1.88	5786.4974	-0.46	5786.4871	-2.23	
T _N	VH	5786.4958	-0.73	5786.5119	2.05	5786.4899	-1.75	5786.5029	0.51	
	Frequency Error vs. Temperature									
				1.4 MHz	z Mode: 5786.5	5 MHz				
_	0 Mir	ute 2 Mir								
Temp.		0 Mir	iute	2 Mir	nute	5 Mir	nute	10 M	inute	
Temp.	Volt.	0 Mir Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	nute Tolerance (ppm)	5 Mir Freq.Error (MHz)	Tolerance (ppm)	10 M Freq.Error (MHz)	Tolerance (ppm)	
Temp.	Volt.	Freq.Error	Tolerance	Freq.Error	Tolerance	Freq.Error	Tolerance	Freq.Error	Tolerance	
·		Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	
40	V _N	Freq.Error (MHz) 5786.4906	Tolerance (ppm) -1.63	Freq.Error (MHz) 5786.4849	Tolerance (ppm) -2.61	Freq.Error (MHz) 5786.5113	Tolerance (ppm) 1.96	Freq.Error (MHz) 5786.4902	Tolerance (ppm) -1.69	
40	V _N	Freq.Error (MHz) 5786.4906 5786.4762	Tolerance (ppm) -1.63 -4.12	Freq.Error (MHz) 5786.4849 5786.4796	Tolerance (ppm) -2.61 -3.53	Freq.Error (MHz) 5786.5113 5786.5034	Tolerance (ppm) 1.96 0.59	Freq.Error (MHz) 5786.4902 5786.4846	Tolerance (ppm) -1.69 -2.66	

Note: All the modes and antennas had been tested, but only the worst data was recorded in the report.

END OF REPORT