



TEST REPORT

APPLICANT : Reliance Communications LLC

PRODUCT NAME : Orbic AirSurf 5G UW

MODEL NAME : R141TL5

BRAND NAME : Orbic

FCC ID : 2ABGH-R141TL5

STANDARD(S) : 47 CFR Part 22, Subpart H
47 CFR Part 24, Subpart E
47 CFR Part 27, Subpart L&O

RECEIPT DATE : 2021-10-18

TEST DATE : 2021-10-18 to 2021-11-30

ISSUE DATE : 2021-12-07

Edited by: Tang Jinde
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Change History		
Version	Date	Reason for change
1.0	2021-12-07	First edition



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	Reliance Communications LLC
Applicant Address:	91 Colin Drive, Unit 1, HOLBROOK, New York 11741, United States
Manufacturer:	Unimaxcomm
Manufacturer Address:	35F,HBC HuiLong Center Building-II Minzhi Street, Longhua, Shenzhen, P.R. China 518110

1.2. Equipment Under Test (EUT) Description

Product Name:	Orbic AirSurf 5G UW	
Hardware Version:	R141-REV12	
Software Version:	ORB141TL5_V1.1.9_SVZ	
IMEI:	N/A	
Serial No.:	(N/A, marked #1 by test site)	
Modulation Type:	DFT-s-OFDM	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM
	CP-OFDM	QPSK, 16QAM, 64QAM, 256QAM
Operation Band:	DC_66A_N2, DC_66A_N5, DC_13A_N66, DC_2A_N77	
Frequency Range:	N2	Tx: 1850MHz-1910MHz
		Rx: 1930MHz-1990MHz
	N5	Tx: 824MHz-849MHz
		Rx: 869MHz-894MHz
	N66	Tx: 1710MHz-1780MHz
		Rx: 2110MHz-2200MHz
	N77	Tx: 3700MHz-3980MHz
		Rx: 3700MHz-3980MHz
N78	Tx: 3700MHz-3800MHz	
	Rx: 3700MHz-3800MHz	
Channel Bandwidth	N2	5MHz, 10MHz, 15MHz, 20MHz
	N5	5MHz, 10MHz, 15MHz, 20MHz
	N66	5MHz, 10MHz, 15MHz, 20MHz
	N77	100MHz



	N78	20MHz, 40MHz, 50MHz, 60MHz, 80MHz, 90MHz, 100MHz
Antenna Type:	Fixed Internal antenna	
Antenna Gain:	N2	4.54 dBi
	N5	2.15 dBi
	N66	4.37 dBi
	N77	4.63 dBi
	N78	4.63 dBi
Accessory Information:	AC Adapter	
	Brand Name:	Orbic
	Model No.:	JHD-AP065U-190342BA-A
	Serial No.:	(N/A, marked #2 by test site)
	Rated Input:	100-240V~ 50/60HZ, 1.5A
	Rated Output:	19V=3420mA
	Manufacturer:	Shenzhen Jihongda Power Co., Ltd
	Battery	
	Brand Name:	Orbic
	Model No.:	BTE-6002
	Serial No.:	(N/A, marked #3 by test site)
	Capacity:	6000mAh
	Rated Voltage:	7.60V
	Charge Limit:	8.70V
	Manufacturer:	GANZHOU NOVEL BATTERY TECHNOLOGY CO.LTD

Note 1: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

Note 2: According to the measured power of all frequency bands, the frequency band with the highest power was selected for the same NR frequency band for testing.

Note 3: Because the Band77 frequency range covers Band78, it is test data used by the band with the highest power in Band77.



1.3. Maximum ERP/EIRP and Emission Designator

DC_66A_N2	Maximum ERP/EIRP (W)					
	DFT-s-OFDM					CP-OFDM
BW(MHz)	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	QPSK
20	0.507	0.536	0.388	0.307	0.190	0.330
15	0.498	/	/	/	/	/
10	0.482	/	/	/	/	/
5	0.483	/	/	/	/	/

DC_13A_N2	Maximum ERP/EIRP (W)					
	DFT-s-OFDM					CP-OFDM
BW(MHz)	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	QPSK
20	0.476	0.482	0.366	0.331	0.205	0.266
15	0.443	/	/	/	/	/
10	0.446	/	/	/	/	/
5	0.449	/	/	/	/	/

DC_48A_N2	Maximum ERP/EIRP (W)					
	DFT-s-OFDM					CP-OFDM
BW(MHz)	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	QPSK
20	0.532	0.532	0.348	0.310	0.249	0.485
15	0.528	/	/	/	/	/
10	0.527	/	/	/	/	/
5	0.524	/	/	/	/	/



DC_2A_N5	Maximum ERP/EIRP (W)					
	DFT-s-OFDM					CP-OFDM
BW(MHz)	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	QPSK
20	0.198	0.191	0.171	0.115	0.070	0.147
15	0.192	/	/	/	/	/
10	0.195	/	/	/	/	/
5	0.190	/	/	/	/	/

DC_66A_N5	Maximum ERP/EIRP (W)					
	DFT-s-OFDM					CP-OFDM
BW(MHz)	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	QPSK
20	0.201	0.209	0.171	0.117	0.071	0.148
15	0.191	/	/	/	/	/
10	0.194	/	/	/	/	/
5	0.181	/	/	/	/	/

DC_48A_N5	Maximum ERP/EIRP (W)					
	DFT-s-OFDM					CP-OFDM
BW(MHz)	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	QPSK
20	0.179	0.183	0.176	0.152	0.097	0.182
15	0.180	/	/	/	/	/
10	0.179	/	/	/	/	/
5	0.177	/	/	/	/	/



DC_13A_N66	Maximum ERP/EIRP (W)					
	DFT-s-OFDM					CP-OFDM
BW(MHz)	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	QPSK
20	0.625	0.628	0.493	0.335	0.212	0.345
15	0.493	/	/	/	/	/
10	0.502	/	/	/	/	/
5	0.513	/	/	/	/	/

DC_2A_N66	Maximum ERP/EIRP (W)					
	DFT-s-OFDM					CP-OFDM
BW(MHz)	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	QPSK
20	0.582	0.596	0.511	0.331	0.204	0.427
15	0.552	/	/	/	/	/
10	0.553	/	/	/	/	/
5	0.555	/	/	/	/	/

DC_48A_N66	Maximum ERP/EIRP (W)					
	DFT-s-OFDM					CP-OFDM
BW(MHz)	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	QPSK
20	0.536	0.543	0.515	0.439	0.272	0.527
15	0.515	/	/	/	/	/
10	0.531	/	/	/	/	/
5	0.527	/	/	/	/	/



DC_13A_N77	Maximum ERP/EIRP (W)					
	DFT-s-OFDM					CP-OFDM
BW(MHz)	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	QPSK
100	0.555	0.557	0.470	0.312	0.209	0.423

DC_66A_N77	Maximum ERP/EIRP (W)					
	DFT-s-OFDM					CP-OFDM
BW(MHz)	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	QPSK
100	0.530	0.574	0.478	0.301	0.206	0.433

DC_2A_N77	Maximum ERP/EIRP (W)					
	DFT-s-OFDM					CP-OFDM
BW(MHz)	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	QPSK
100	0.655	0.671	0.531	0.361	0.239	0.498

DC_5A_N77	Maximum ERP/EIRP (W)					
	DFT-s-OFDM					CP-OFDM
BW(MHz)	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	QPSK
100	0.531	0.564	0.451	0.319	0.210	0.428

Note: The test results of Maximum Emission Designator please refer to Report No.:SZ21010262W04.



1.4. Test Standards and Results

The objective of the report is to perform testing according to Part 2, Part 22, Part 24 and Part 27 for the EUT FCC ID Certification:

No	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	47 CFR Part 22	Public Mobile Services
3	47 CFR Part 24	Personal Communications Services
4	47 CFR Part 27	Miscellaneous Wireless Communications Services



Test detailed items/section required by FCC rules and results are as below:

Section	Description	Test Date	Test Engineer	Result	Method Determination /Remark
2.1046,27.50(d)(4) 22.913(a)(5) 24.232(c) 27.50(d)(4) 27.50(j)(3)	Transmitter Conducted Output Power and ERP/EIRP	Nov 30,2021	Yi Xiaogang	PASS	No deviation
2.1049	Occupied Bandwidth	May 16 to 26, 2021	Chen Haiju	PASS	No deviation
2.1055 22.355 24.235 27.54	Frequency Stability	May 29 to 31, 2021	Chen Haiju	PASS	No deviation
24.232(d) 27.50(d)(5) 27.50(j)(4)	Peak to Average Radio	Jun 8 to 22, 2021	Chen Haiju	PASS	No deviation
2.1051, 22.917(a) 24.238(a) 27.53(h) 27.53(l)	Conducted Spurious Emissions	May 02 to Jun 04, 2021	Chen Haiju	PASS	No deviation
2.1051, 22.917(a) 24.238(a) 27.53(h) 27.53(l)	Band Edge	May 02, to Jun 22, 2021	Chen Haiju	PASS	No deviation
2.1051, 22.917(a) 24.238(a) 27.53(h) 27.53(l)	Radiated Spurious Emissions	Oct 18 to Nov 23, 2021	Gao Jianrou	PASS	No deviation

Note 1: The tests were performed according to the method of measurements prescribed in KDB971168 D01 v03 and ANSI/TIA-603-E-2016.

Note 2: The path loss during the RF test is calibrated to correct the results by the offset setting in the test equipments. The ref offset4dB and Attenuator 36dB.

Note 3: These items except ERP/EIRP&RSE please refer to the 5G module report



SZ21010262W05(SA) which The FCC ID is 2ABGH-R100ML5 and the 5G module has been certified by Shenzhen Morlab Communications Technology Co., Ltd. on 07/02/2021.

1.5. Environmental Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15 - 35
Relative Humidity (%):	30 -60
Atmospheric Pressure (kPa):	86-106

2.47 CFR Part 2, Part 22H, Part 24E, Part 27L&O Requirements

2.1. Transmitter Conducted Output Power And ERP/EIRP

2.1.1. Requirement

According to FCC section 2.1046(a), for transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in FCC section 2.1033(c)(8).

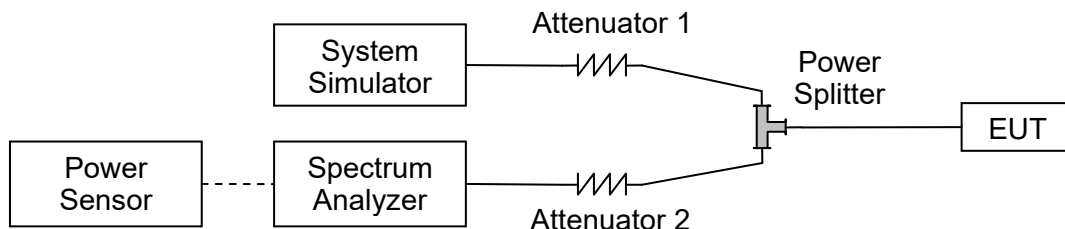
According to FCC section 24.232 (c) for N2, Mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

According to FCC section 22.913(a)(2) for N5, the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

According to FCC section 27.50 (d)(4) for N66, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP.

According to FCC section 27.50 (i)(3) for N78, Mobile and portable stations are limited to 1 Watt EIRP.

2.1.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.1.3. Test procedure

KDB 971168 D01v03 Section 5.2 and ANSI/TIA-603-E-2016.



EIRP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi)

ERP (dBm) = EIPR (dBm) - 2.15

2.1.4. Result

Conducted Output Power:

DC_48A_N2

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				372000	376000	380000
Frequency (MHz)				1860	1880	1900
20	DFT-s-OFDM PI/2 BPSK	1	1	22.72	22.61	22.65
20		1	53	22.72	22.70	22.71
20		1	104	22.66	22.70	22.69
20		50	1	22.12	22.66	22.63
20		50	25	22.40	22.07	22.65
20		50	50	22.12	22.69	22.69
20		100	0	22.41	22.32	22.72
20	DFT-s-OFDM QPSK	1	1	22.46	22.73	22.39
20		1	53	22.65	22.70	22.69
20		1	104	22.54	22.42	22.54
20		50	1	22.67	22.72	22.70
20		50	25	22.64	22.71	22.71
20		50	50	22.72	22.08	22.64
20	100	0	22.42	22.45	22.59	
20	DFT-s-OFDM 16QAM	1	1	20.25	20.87	20.29
20	DFT-s-OFDM 64QAM	1	1	20.04	20.37	20.01
20	DFT-s-OFDM 256QAM	1	1	19.42	19.12	19.38
Channel				371500	376000	380500
Frequency (MHz)				1857.5	1880	1902.5
15	DFT-s-OFDM PI/2 BPSK	1	1	22.69	22.63	22.68
Channel				371000	376000	381000
Frequency (MHz)				1855	1880	1905



10	DFT-s-OFDM PI/2 BPSK	1	1	22.68	22.61	22.66
Channel				370500	376000	381500
Frequency (MHz)				1852.5	1880	1907.5
5	DFT-s-OFDM PI/2 BPSK	1	1	22.61	22.49	22.65
Channel				372000	376000	380000
Frequency (MHz)				1860	1880	1900
20	CP-OFDM QPSK	1	1	22.15	21.97	22.32
20	CP-OFDM 16QAM	1	1	21.82	21.53	21.85
20	CP-OFDM 64QAM	1	1	20.09	20.25	20.32
20	CP-OFDM 256QAM	1	1	17.06	17.13	17.38

DC_48A_N5

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				166800	167300	167800
Frequency (MHz)				824	836.5	849
20	DFT-s-OFDM PI/2 BPSK	1	1	22.54	22.47	22.43
20		1	53	22.46	22.42	22.41
20		1	104	22.30	22.34	22.23
20		50	1	22.60	22.53	22.50
20		50	25	22.56	22.54	22.48
20		50	50	22.43	22.44	22.41
20		100	0	22.50	22.50	22.43
20	DFT-s-OFDM QPSK	1	1	22.49	22.63	22.45
20		1	53	22.25	22.42	22.38
20		1	104	22.16	22.26	22.27
20		50	1	22.44	22.60	22.51
20		50	25	22.51	22.56	22.47
20		50	50	22.10	22.41	22.35
20		100	0	22.16	22.49	22.45
20	DFT-s-OFDM 16QAM	1	1	22.41	22.45	22.46
20	DFT-s-OFDM 64QAM	1	1	21.63	21.82	21.74
20	DFT-s-OFDM 256QAM	1	1	19.73	19.86	19.72
Channel				371500	376000	380500
Frequency (MHz)				1857.5	1880	1902.5
15	DFT-s-OFDM PI/2 BPSK	1	1	22.53	22.54	22.55
Channel				371000	376000	381000
Frequency (MHz)				1855	1880	1905
10	DFT-s-OFDM PI/2 BPSK	1	1	22.52	22.41	22.29
Channel				370500	376000	381500
Frequency (MHz)				1852.5	1880	1907.5
5	DFT-s-OFDM PI/2 BPSK	1	1	22.48	22.45	22.33



Channel				166800	167300	167800
Frequency (MHz)				824	836.5	849
20	CP-OFDM QPSK	1	1	22.55	22.60	22.46
20	CP-OFDM 16QAM	1	1	22.34	22.33	22.24
20	CP-OFDM 64QAM	1	1	20.92	20.76	20.74
20	CP-OFDM 256QAM	1	1	17.90	17.85	17.71



DC_48A_N66

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				344000	349000	354000
Frequency (MHz)				1720	1745	1770
20	DFT-s-OFDM PI/2 BPSK	1	1	22.75	22.72	22.92
20		1	53	22.64	22.57	22.76
20		1	104	22.66	22.74	22.70
20		50	1	22.39	22.78	22.79
20		50	25	22.31	22.76	22.92
20		50	50	22.16	22.74	22.78
20		100	0	22.22	22.76	22.68
20	DFT-s-OFDM QPSK	1	1	22.70	22.98	22.86
20		1	53	22.45	22.69	22.67
20		1	104	22.82	22.84	22.66
20		50	1	22.32	22.95	22.68
20		50	25	22.33	22.30	22.75
20		50	50	22.17	22.03	22.72
20		100	0	22.66	22.74	22.69
20	DFT-s-OFDM 16QAM	1	1	22.67	22.65	22.75
20	DFT-s-OFDM 64QAM	1	1	21.52	21.91	22.05
20	DFT-s-OFDM 256QAM	1	1	19.97	19.86	19.93
Channel				343500	349000	354500
Frequency (MHz)				1717.5	1745	1772.5
15	DFT-s-OFDM PI/2 BPSK	1	1	22.75	22.65	22.62
Channel				343000	349000	355000
Frequency (MHz)				1715	1745	1775
10	DFT-s-OFDM PI/2 BPSK	1	1	22.74	22.66	22.88
Channel				342500	349000	355500
Frequency (MHz)				1712.5	1745	1777.5
5	DFT-s-OFDM PI/2 BPSK	1	1	22.76	22.77	22.85



Channel				344000	349000	354000
Frequency (MHz)				1710	1745	1780
20	CP-OFDM QPSK	1	1	22.50	22.85	22.76
20	CP-OFDM 16QAM	1	1	21.88	22.43	22.52
20	CP-OFDM 64QAM	1	1	20.90	20.91	20.86
20	CP-OFDM 256QAM	1	1	18.17	17.98	18.07

Note: The other test results of output power please refer to Report No.:SZ21010262W04.



2.1.5.

Effective Radiated Power and Effective Isotropic Radiated Power:

DC_66A_N2				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	LowCh. /Freq.	MiddleC h./Freq.	HighCh . / Freq.	LowCh. / EIRP	MiddleC h./EIRP	HighCh . / EIRP
Channel				372000	376000	380000	372000	376000	380000
Frequency (MHz)				1860	1880	1900	1860	1880	1900
				dBm			W		
20	DFT-s-OFDM PI/2 BPSK	1	1	26.95	26.88	26.83	0.495	0.488	0.482
20		1	39	27.03	26.97	26.89	0.505	0.498	0.489
20		1	77	26.85	27.05	26.83	0.484	0.507	0.482
20		36	1	26.63	26.61	26.82	0.460	0.458	0.481
20		36	18	27.05	26.84	26.98	0.507	0.483	0.499
20		36	36	26.91	26.76	26.87	0.491	0.474	0.486
20		75	0	26.87	26.60	26.72	0.486	0.457	0.470
20	DFT-s-OFDM QPSK	1	1	27.02	27.29	27.14	0.504	0.536	0.518
20		1	39	26.93	26.87	26.93	0.493	0.486	0.493
20		1	77	26.81	27.00	26.97	0.480	0.501	0.498
20		36	1	26.99	27.02	26.56	0.500	0.504	0.453
20		36	18	27.01	27.00	27.01	0.502	0.501	0.502
20		36	36	26.88	26.72	26.75	0.488	0.470	0.473
20		75	0	26.35	26.51	26.44	0.432	0.448	0.441
20	DFT-s-OFDM 16QAM	1	1	25.89	25.59	25.48	0.388	0.362	0.353
20	DFT-s-OFDM 64QAM	1	1	24.61	24.87	24.67	0.289	0.307	0.293
20	DFT-s-OFDM 256QAM	1	1	22.31	22.79	22.73	0.170	0.190	0.187
Channel				371500	376000	380500	371500	376000	380500
Frequency (MHz)				1857.5	1880	1902.5	1857.5	1880	1902.5
15	DFT-s-OFDM PI/2 BPSK	1	1	26.97	26.81	26.54	0.498	0.480	0.451
Channel				371000	376000	381000	371000	376000	381000
Frequency (MHz)				1855	1880	1905	1855	1880	1905
10	DFT-s-OFDM PI/2 BPSK	1	1	26.83	26.66	26.69	0.482	0.463	0.467



Channel				370500	376000	381500	370500	376000	381500
Frequency (MHz)				1852.5	1880	1907.5	1852.5	1880	1907.5
5	DFT-s-OFDM PI/2 BPSK	1	1	26.84	26.73	26.65	0.483	0.471	0.462
Channel				372000	376000	380000	372000	376000	380000
Frequency (MHz)				1860	1880	1900	1860	1880	1900
20	CP-OFDM QPSK	1	1	25.19	24.75	25.00	0.330	0.299	0.316
20	CP-OFDM 16QAM	1	1	25.16	24.88	24.71	0.328	0.308	0.296
20	CP-OFDM 64QAM	1	1	23.36	23.25	23.22	0.217	0.211	0.210
20	CP-OFDM 256QAM	1	1	20.72	20.61	20.94	0.118	0.115	0.124



DC_13A_N2				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	LowCh. /Freq.	MiddIC h./Freq.	HighCh. / Freq.	LowCh. / EIRP	MiddleC h./EIRP	HighCh. / EIRP
Channel				372000	376000	380000	372000	376000	380000
Frequency (MHz)				1860	1880	1900	1860	1880	1900
				dBm			W		
20	DFT-s-OFDM PI/2 BPSK	1	1	26.46	25.85	25.29	0.443	0.385	0.338
20		1	39	26.78	26.69	25.63	0.476	0.467	0.366
20		1	77	25.81	25.49	25.30	0.381	0.354	0.339
20		36	1	26.46	26.59	26.41	0.443	0.456	0.438
20		36	18	26.62	26.50	26.33	0.459	0.447	0.430
20		36	36	26.69	25.69	25.98	0.467	0.371	0.396
20		75	0	26.57	26.49	26.41	0.454	0.446	0.438
20	DFT-s-OFDM QPSK	1	1	26.56	26.83	26.10	0.453	0.482	0.407
20		1	39	26.68	26.73	26.71	0.466	0.471	0.469
20		1	77	26.80	25.50	25.89	0.479	0.355	0.388
20		36	1	25.37	26.81	26.39	0.344	0.480	0.436
20		36	18	26.36	26.72	26.39	0.433	0.470	0.436
20		36	36	26.56	25.74	26.11	0.453	0.375	0.408
20		75	0	26.30	26.35	26.38	0.427	0.432	0.435
20	DFT-s-OFDM 16QAM	1	1	25.13	25.63	25.61	0.326	0.366	0.364
20	DFT-s-OFDM 64QAM	1	1	24.84	25.14	25.20	0.305	0.327	0.331
20	DFT-s-OFDM 256QAM	1	1	23.12	22.67	22.49	0.205	0.185	0.177
Channel				371500	376000	380500	166300	167300	168300
Frequency (MHz)				1857.5	1880	1902.5	831.5	836.5	841.5
15	DFT-s-OFDM PI/2 BPSK	1	1	26	26.46	25.02	0.398	0.443	0.318
Channel				371000	376000	381000	165800	167300	168800
Frequency (MHz)				1855	1880	1905	829	836.5	844
10	DFT-s-OFDM PI/2 BPSK	1	1	25.81	26.49	25.18	0.381	0.446	0.330
Channel				370500	376000	381500	165300	167300	169300
Frequency (MHz)				1852.5	1880	1907.5	826.5	836.5	846.5
5	DFT-s-OFDM PI/2 BPSK	1	1	25.93	26.52	25.86	0.392	0.449	0.385



Channel				372000	376000	380000	166800	167300	167800
Frequency (MHz)				1860	1880	1900	834	836.5	839
20	CP-OFDM QPSK	1	1	24.25	24.13	23.74	0.266	0.259	0.237
20	CP-OFDM 16QAM	1	1	23.73	23.68	23.29	0.236	0.233	0.213
20	CP-OFDM 64QAM	1	1	22.83	22.52	22.27	0.192	0.179	0.169
20	CP-OFDM 256QAM	1	1	21.07	20.37	20.32	0.128	0.109	0.108



DC_48A_N2				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	LowCh. /Freq.	MiddlC h./Freq.	HighCh . / Freq.	LowCh. / EIRP	MiddleC h./EIRP	HighCh . / EIRP
Channel				372000	376000	380000	372000	376000	380000
Frequency (MHz)				1860	1880	1900	1860	1880	1900
				dBm			W		
20	DFT-s-OFDM PI/2 BPSK	1	1	27.26	27.15	27.19	0.532	0.519	0.524
20		1	39	27.26	27.24	27.25	0.532	0.530	0.531
20		1	77	27.20	27.24	27.23	0.525	0.530	0.528
20		36	1	26.66	27.20	27.17	0.463	0.525	0.521
20		36	18	26.94	26.61	27.19	0.494	0.458	0.524
20		36	36	26.66	27.23	27.23	0.463	0.528	0.528
20		75	0	26.95	26.86	27.26	0.495	0.485	0.532
20	DFT-s-OFDM QPSK	1	1	27.00	27.27	26.93	0.501	0.533	0.493
20		1	39	27.19	27.24	27.23	0.524	0.530	0.528
20		1	77	27.08	26.96	27.08	0.511	0.497	0.511
20		36	1	27.21	27.26	27.24	0.526	0.532	0.530
20		36	18	27.18	27.25	27.25	0.522	0.531	0.531
20		36	36	27.26	26.62	27.18	0.532	0.459	0.522
20		75	0	26.96	26.99	27.13	0.497	0.500	0.516
20	DFT-s-OFDM 16QAM	1	1	24.79	25.41	24.83	0.301	0.348	0.304
20	DFT-s-OFDM 64QAM	1	1	24.58	24.91	24.55	0.287	0.310	0.285
20	DFT-s-OFDM 256QAM	1	1	23.96	23.66	23.92	0.249	0.232	0.247
Channel				371500	376000	380500	371500	376000	380500
Frequency (MHz)				1857.5	1880	1902.5	1857.5	1880	1902.5
15	DFT-s-OFDM PI/2 BPSK	1	1	27.23	27.17	27.22	0.528	0.521	0.527
Channel				371000	376000	381000	371000	376000	381000
Frequency (MHz)				1855	1880	1905	1855	1880	1905
10	DFT-s-OFDM PI/2 BPSK	1	1	27.22	27.15	27.20	0.527	0.519	0.525
Channel				370500	376000	381500	370500	376000	381500
Frequency (MHz)				1852.5	1880	1907.5	1852.5	1880	1907.5
5	DFT-s-OFDM PI/2 BPSK	1	1	27.15	27.03	27.19	0.519	0.505	0.524



Channel				372000	376000	380000	372000	376000	380000
Frequency (MHz)				1860	1880	1900	1860	1880	1900
20	CP-OFDM QPSK	1	1	26.69	26.51	26.86	0.467	0.448	0.485
20	CP-OFDM 16QAM	1	1	26.36	26.07	26.39	0.433	0.405	0.436
20	CP-OFDM 64QAM	1	1	24.63	24.79	24.86	0.290	0.301	0.306
20	CP-OFDM 256QAM	1	1	21.60	21.67	21.92	0.145	0.147	0.156



DC_2A_N5				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	LowCh. /Freq.	MiddleC h./Freq.	HighCh . / Freq.	LowCh. / EIRP	MiddleC h./EIRP	HighCh . / EIRP
Channel				166800	167300	167800	166800	167300	167800
Frequency (MHz)				834	836.5	839	834	836.5	839
				dBm			W		
20	DFT-s-OFDM PI/2 BPSK	1	1	22.95	22.97	22.95	0.197	0.198	0.197
20		1	39	22.89	22.76	22.53	0.195	0.189	0.179
20		1	77	22.55	22.51	22.56	0.180	0.178	0.180
20		36	1	22.53	22.57	22.55	0.179	0.181	0.180
20		36	18	22.63	22.66	22.61	0.183	0.185	0.182
20		36	36	22.26	22.25	22.33	0.168	0.168	0.171
20		75	0	22.33	22.33	22.23	0.171	0.171	0.167
20	DFT-s-OFDM QPSK	1	1	22.91	22.98	22.87	0.195	0.199	0.194
20		1	39	22.81	22.77	22.55	0.191	0.189	0.180
20		1	77	22.59	22.53	22.53	0.182	0.179	0.179
20		36	1	22.15	22.65	22.31	0.164	0.184	0.170
20		36	18	22.64	22.60	22.53	0.184	0.182	0.179
20		36	36	22.33	22.54	22.30	0.171	0.179	0.170
20		75	0	21.91	21.88	21.76	0.155	0.154	0.150
20	DFT-s-OFDM 16QAM	1	1	22.33	22.20	22.31	0.171	0.166	0.170
20	DFT-s-OFDM 64QAM	1	1	20.46	20.61	20.57	0.111	0.115	0.114
20	DFT-s-OFDM 256QAM	1	1	18.47	18.47	18.41	0.070	0.070	0.069
Channel				166300	167300	168300	166300	167300	168300
Frequency (MHz)				831.5	836.5	841.5	831.5	836.5	841.5
15	DFT-s-OFDM PI/2 BPSK	1	1	22.64	22.64	22.83	0.184	0.184	0.192
Channel				165800	167300	168800	165800	167300	168800
Frequency (MHz)				829	836.5	844	829	836.5	844
10	DFT-s-OFDM PI/2 BPSK	1	1	22.89	22.88	22.53	0.195	0.194	0.179
Channel				165300	167300	169300	165300	167300	169300
Frequency (MHz)				826.5	836.5	846.5	826.5	836.5	846.5
5	DFT-s-OFDM	1	1	22.67	22.79	22.38	0.185	0.190	0.173



	PI/2 BPSK								
Channel				166800	167300	167800	166800	167300	167800
Frequency (MHz)				834	836.5	839	834	836.5	839
20	CP-OFDM QPSK	1	1	21.60	21.66	21.57	0.145	0.147	0.144
20	CP-OFDM 16QAM	1	1	21.46	21.44	21.37	0.140	0.139	0.137
20	CP-OFDM 64QAM	1	1	19.58	19.61	19.57	0.091	0.091	0.091
20	CP-OFDM 256QAM	1	1	16.46	16.46	16.49	0.044	0.044	0.045



DC_66A_N5				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	LowCh. /Freq.	MiddlC h./Freq.	HighCh . / Freq.	LowCh. / EIRP	MiddleC h./EIRP	HighCh . / EIRP
Channel				166800	167300	167800	166800	167300	167800
Frequency (MHz)				834	836.5	839	834	836.5	839
				dBm			W		
20	DFT-s-OFDM PI/2 BPSK	1	1	22.98	23.03	23.01	0.199	0.201	0.200
20		1	39	22.89	22.77	22.59	0.195	0.189	0.182
20		1	77	22.61	22.72	22.56	0.182	0.187	0.180
20		36	1	22.37	22.34	22.50	0.173	0.171	0.178
20		36	18	22.51	22.37	22.59	0.178	0.173	0.182
20		36	36	22.28	22.31	22.35	0.169	0.170	0.172
20		75	0	22.15	22.07	21.98	0.164	0.161	0.158
20	DFT-s-OFDM QPSK	1	1	22.83	23.20	22.94	0.192	0.209	0.197
20		1	39	22.87	22.73	22.70	0.194	0.187	0.186
20		1	77	22.72	22.81	22.73	0.187	0.191	0.187
20		36	1	22.56	22.61	22.55	0.180	0.182	0.180
20		36	18	22.35	22.38	22.42	0.172	0.173	0.175
20		36	36	22.32	22.38	22.35	0.171	0.173	0.172
20		75	0	22.06	21.94	21.87	0.161	0.156	0.154
20	DFT-s-OFDM 16QAM	1	1	22.30	22.34	22.25	0.170	0.171	0.168
20	DFT-s-OFDM 64QAM	1	1	20.66	20.68	20.60	0.116	0.117	0.115
20	DFT-s-OFDM 256QAM	1	1	18.39	18.52	18.43	0.069	0.071	0.070
Channel				166300	167300	168300	166300	167300	168300
Frequency (MHz)				831.5	836.5	841.5	831.5	836.5	841.5
15	DFT-s-OFDM PI/2 BPSK	1	1	22.78	22.80	22.91	0.190	0.191	0.195
Channel				165800	167300	168800	165800	167300	168800
Frequency (MHz)				829	836.5	844	829	836.5	844
10	DFT-s-OFDM PI/2 BPSK	1	1	22.87	22.84	22.54	0.194	0.192	0.179
Channel				165300	167300	169300	165300	167300	169300
Frequency (MHz)				826.5	836.5	846.5	826.5	836.5	846.5
5	DFT-s-OFDM PI/2 BPSK	1	1	22.23	22.58	22.32	0.167	0.181	0.171



Channel				166800	167300	167800	166800	167300	167800
Frequency (MHz)				834	836.5	839	834	836.5	839
20	CP-OFDM QPSK	1	1	21.56	21.70	21.64	0.143	0.148	0.146
20	CP-OFDM 16QAM	1	1	21.46	21.47	21.53	0.140	0.140	0.142
20	CP-OFDM 64QAM	1	1	19.56	19.63	19.53	0.090	0.092	0.090
20	CP-OFDM 256QAM	1	1	16.49	16.54	16.48	0.045	0.045	0.044



DC_48A_N5				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	LowCh. /Freq.	MiddIC h./Freq.	HighCh. / Freq.	LowCh. / EIRP	MiddleC h./EIRP	HighCh. / EIRP
Channel				166800	167300	167800	166800	167300	167800
Frequency (MHz)				834	836.5	839	834	836.5	839
				dBm			W		
20	DFT-s-OFDM PI/2 BPSK	1	1	22.54	22.47	22.43	0.179	0.177	0.175
20		1	39	22.46	22.42	22.41	0.176	0.175	0.174
20		1	77	22.30	22.34	22.23	0.170	0.171	0.167
20		36	1	22.60	22.53	22.50	0.182	0.179	0.178
20		36	18	22.56	22.54	22.48	0.180	0.179	0.177
20		36	36	22.43	22.44	22.41	0.175	0.175	0.174
20		75	0	22.50	22.50	22.43	0.178	0.178	0.175
20	DFT-s-OFDM QPSK	1	1	22.49	22.63	22.45	0.177	0.183	0.176
20		1	39	22.25	22.42	22.38	0.168	0.175	0.173
20		1	77	22.16	22.26	22.27	0.164	0.168	0.169
20		36	1	22.44	22.60	22.51	0.175	0.182	0.178
20		36	18	22.51	22.56	22.47	0.178	0.180	0.177
20		36	36	22.10	22.41	22.35	0.162	0.174	0.172
20		75	0	22.16	22.49	22.45	0.164	0.177	0.176
20	DFT-s-OFDM 16QAM	1	1	22.41	22.45	22.46	0.174	0.176	0.176
20	DFT-s-OFDM 64QAM	1	1	21.63	21.82	21.74	0.146	0.152	0.149
20	DFT-s-OFDM 256QAM	1	1	19.73	19.86	19.72	0.094	0.097	0.094
Channel				166300	167300	168300	166300	167300	168300
Frequency (MHz)				831.5	836.5	841.5	831.5	836.5	841.5
15	DFT-s-OFDM PI/2 BPSK	1	1	22.53	22.54	22.55	0.179	0.179	0.180
Channel				165800	167300	168800	165800	167300	168800
Frequency (MHz)				829	836.5	844	829	836.5	844
10	DFT-s-OFDM PI/2 BPSK	1	1	22.52	22.41	22.29	0.179	0.174	0.169
Channel				165300	167300	169300	165300	167300	169300
Frequency (MHz)				826.5	836.5	846.5	826.5	836.5	846.5
5	DFT-s-OFDM PI/2 BPSK	1	1	22.48	22.45	22.33	0.177	0.176	0.171



Channel				166800	167300	167800	166800	167300	167800
Frequency (MHz)				834	836.5	839	834	836.5	839
20	CP-OFDM QPSK	1	1	22.55	22.60	22.46	0.180	0.182	0.176
20	CP-OFDM 16QAM	1	1	22.34	22.33	22.24	0.171	0.171	0.167
20	CP-OFDM 64QAM	1	1	20.92	20.76	20.74	0.124	0.119	0.119
20	CP-OFDM 256QAM	1	1	17.90	17.85	17.71	0.062	0.061	0.059



DC_13A_N66				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	LowCh. /Freq.	MiddIC h./Freq.	HighCh . / Freq.	LowCh. / EIRP	MiddleC h./EIRP	HighCh . / EIRP
Channel				344000	349000	354000	344000	349000	354000
Frequency (MHz)				1720	1745	1770	1720	1745	1770
				dBm			W		
20	DFT-s-OFDM PI/2 BPSK	1	1	27.31	27.66	27.61	0.538	0.583	0.577
20		1	39	27.75	27.78	27.59	0.596	0.600	0.574
20		1	77	27.54	27.65	27.75	0.568	0.582	0.596
20		36	1	27.57	27.56	27.59	0.571	0.570	0.574
20		36	18	27.65	27.96	27.85	0.582	0.625	0.610
20		36	36	27.84	27.88	27.97	0.608	0.614	0.627
20		75	0	27.23	27.53	27.48	0.528	0.566	0.560
20	DFT-s-OFDM QPSK	1	1	27.68	27.98	27.53	0.586	0.628	0.566
20		1	39	27.69	27.90	27.82	0.587	0.617	0.605
20		1	77	27.54	27.85	27.84	0.568	0.610	0.608
20		36	1	27.66	27.97	27.59	0.583	0.627	0.574
20		36	18	27.85	27.97	27.61	0.610	0.627	0.577
20		36	36	27.77	27.97	27.94	0.598	0.627	0.622
20		75	0	26.77	27.06	27.04	0.475	0.508	0.506
20	DFT-s-OFDM 16QAM	1	1	26.68	26.93	26.86	0.466	0.493	0.485
20	DFT-s-OFDM 64QAM	1	1	24.92	25.25	25.12	0.310	0.335	0.325
20	DFT-s-OFDM 256QAM	1	1	23.00	23.15	23.26	0.200	0.207	0.212
Channel				343500	349000	354500	343500	349000	354500
Frequency (MHz)				1717.5	1745	1772.5	1717.5	1745	1772.5
15	DFT-s-OFDM PI/2 BPSK	1	1	26.52	26.93	26.76	0.449	0.493	0.474
Channel				343000	349000	355000	343000	349000	355000
Frequency (MHz)				1715	1745	1775	1715	1745	1775
10	DFT-s-OFDM PI/2 BPSK	1	1	26.55	26.99	27.01	0.452	0.500	0.502
Channel				342500	349000	355500	342500	349000	355500
Frequency (MHz)				1712.5	1745	1777.5	1712.5	1745	1777.5
5	DFT-s-OFDM PI/2 BPSK	1	1	27.05	27.10	26.84	0.507	0.513	0.483



Channel				344000	349000	354000	344000	349000	354000
Frequency (MHz)				1720	1745	1770	1720	1745	1770
20	CP-OFDM QPSK	1	1	25.08	25.38	25.35	0.322	0.345	0.343
20	CP-OFDM 16QAM	1	1	25.00	25.16	25.13	0.316	0.328	0.326
20	CP-OFDM 64QAM	1	1	23.09	23.29	23.25	0.204	0.213	0.211
20	CP-OFDM 256QAM	1	1	19.82	20.08	19.99	0.096	0.102	0.100



DC_2A_N66				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	LowCh. /Freq.	MiddIC h./Freq.	HighCh. / Freq.	LowCh. / EIRP	MiddleC h./EIRP	HighCh. / EIRP
Channel				344000	349000	354000	344000	349000	354000
Frequency (MHz)				1720	1745	1770	1720	1745	1770
				dBm			W		
20	DFT-s-OFDM PI/2 BPSK	1	1	27.31	27.40	27.62	0.538	0.550	0.578
20		1	39	27.20	27.39	27.34	0.525	0.548	0.542
20		1	77	27.65	27.59	27.47	0.582	0.574	0.558
20		36	1	27.05	27.08	27.10	0.507	0.511	0.513
20		36	18	27.16	27.39	27.27	0.520	0.548	0.533
20		36	36	27.36	27.35	27.19	0.545	0.543	0.524
20		75	0	27.03	27.12	26.89	0.505	0.515	0.489
20	DFT-s-OFDM QPSK	1	1	27.39	27.75	27.45	0.548	0.596	0.556
20		1	39	27.37	27.28	27.32	0.546	0.535	0.540
20		1	77	27.64	27.40	27.27	0.581	0.550	0.533
20		36	1	27.47	27.52	27.38	0.558	0.565	0.547
20		36	18	27.54	27.34	27.24	0.568	0.542	0.530
20		36	36	27.42	27.48	27.17	0.552	0.560	0.521
20		75	0	26.54	26.56	26.51	0.451	0.453	0.448
20	DFT-s-OFDM 16QAM	1	1	26.78	26.72	27.08	0.476	0.470	0.511
20	DFT-s-OFDM 64QAM	1	1	24.88	24.92	25.20	0.308	0.310	0.331
20	DFT-s-OFDM 256QAM	1	1	22.81	22.89	23.10	0.191	0.195	0.204
Channel				343500	349000	354500	343500	349000	354500
Frequency (MHz)				1717.5	1745	1772.5	1717.5	1745	1772.5
15	DFT-s-OFDM PI/2 BPSK	1	1	27.42	27.21	27.38	0.552	0.526	0.547
Channel				343000	349000	355000	343000	349000	355000
Frequency (MHz)				1715	1745	1775	1715	1745	1775
10	DFT-s-OFDM PI/2 BPSK	1	1	27.43	27.29	27.24	0.553	0.536	0.530
Channel				342500	349000	355500	342500	349000	355500
Frequency (MHz)				1712.5	1745	1777.5	1712.5	1745	1777.5
5	DFT-s-OFDM PI/2 BPSK	1	1	27.38	27.15	27.44	0.547	0.519	0.555



Channel				344000	349000	354000	344000	349000	354000
Frequency (MHz)				1720	1745	1770	1720	1745	1770
20	CP-OFDM QPSK	1	1	26.08	26.13	26.30	0.406	0.410	0.427
20	CP-OFDM 16QAM	1	1	25.91	25.97	26.03	0.390	0.395	0.401
20	CP-OFDM 64QAM	1	1	24.02	24.08	24.18	0.252	0.256	0.262
20	CP-OFDM 256QAM	1	1	20.95	20.93	21.16	0.124	0.124	0.131



DC_48A_N66				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	LowCh. /Freq.	MiddIC h./Freq.	HighCh. / Freq.	LowCh. / EIRP	MiddleC h./EIRP	HighCh. / EIRP
Channel				344000	349000	354000	344000	349000	354000
Frequency (MHz)				1720	1745	1770	1720	1745	1770
				dBm			W		
20	DFT-s-OFDM PI/2 BPSK	1	1	27.12	27.09	27.29	0.515	0.512	0.536
20		1	39	27.01	26.94	27.13	0.502	0.494	0.516
20		1	77	27.03	27.11	27.07	0.505	0.514	0.509
20		36	1	26.76	27.15	27.16	0.474	0.519	0.520
20		36	18	26.68	27.13	27.29	0.466	0.516	0.536
20		36	36	26.53	27.11	27.15	0.450	0.514	0.519
20		75	0	26.59	27.13	27.05	0.456	0.516	0.507
20	DFT-s-OFDM QPSK	1	1	27.07	27.35	27.23	0.509	0.543	0.528
20		1	39	26.82	27.06	27.04	0.481	0.508	0.506
20		1	77	27.19	27.21	27.03	0.524	0.526	0.505
20		36	1	26.69	27.32	27.05	0.467	0.540	0.507
20		36	18	26.70	26.67	27.12	0.468	0.465	0.515
20		36	36	26.54	26.40	27.09	0.451	0.437	0.512
20		75	0	27.03	27.11	27.06	0.505	0.514	0.508
20	DFT-s-OFDM 16QAM	1	1	27.04	27.02	27.12	0.506	0.504	0.515
20	DFT-s-OFDM 64QAM	1	1	25.89	26.28	26.42	0.388	0.425	0.439
20	DFT-s-OFDM 256QAM	1	1	24.34	24.23	24.30	0.272	0.265	0.269
Channel				343500	349000	354500	343500	349000	354500
Frequency (MHz)				1717.5	1745	1772.5	1717.5	1745	1772.5
15	DFT-s-OFDM PI/2 BPSK	1	1	27.12	27.02	26.99	0.515	0.504	0.500
Channel				343000	349000	355000	343000	349000	355000
Frequency (MHz)				1715	1745	1775	1715	1745	1775
10	DFT-s-OFDM PI/2 BPSK	1	1	27.11	27.03	27.25	0.514	0.505	0.531
Channel				342500	349000	355500	342500	349000	355500
Frequency (MHz)				1712.5	1745	1777.5	1712.5	1745	1777.5
5	DFT-s-OFDM PI/2 BPSK	1	1	27.13	27.14	27.22	0.516	0.518	0.527



Channel				344000	349000	354000	344000	349000	354000
Frequency (MHz)				1720	1745	1770	1720	1745	1770
20	CP-OFDM QPSK	1	1	26.87	27.22	27.13	0.486	0.527	0.516
20	CP-OFDM 16QAM	1	1	26.25	26.80	26.89	0.422	0.479	0.489
20	CP-OFDM 64QAM	1	1	25.27	25.28	25.23	0.337	0.337	0.333
20	CP-OFDM 256QAM	1	1	22.54	22.35	22.44	0.179	0.172	0.175



DC_2A_N77				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	LowCh. /Freq.	MiddIC h./Freq.	HighCh. / Freq.	LowCh. / EIRP	MiddleC h./EIRP	HighCh. / EIRP
Channel				650000	656000	662000	650000	656000	662000
Frequency (MHz)				3750	3840	3930	3750	3840	3930
				dBm			W		
100	DFT-s-OFDM PI/2 BPSK	1	1	28.16	27.85	27.50	0.655	0.610	0.562
100		1	39	27.66	27.73	27.56	0.583	0.593	0.570
100		1	77	27.88	27.54	27.30	0.614	0.568	0.537
100		36	1	27.05	27.02	26.97	0.507	0.504	0.498
100		36	18	27.23	27.24	26.91	0.528	0.530	0.491
100		36	36	27.02	26.58	26.98	0.504	0.455	0.499
100		75	0	27.10	26.80	26.89	0.513	0.479	0.489
100	DFT-s-OFDM QPSK	1	1	28.18	28.27	28.11	0.658	0.671	0.647
100		1	39	27.76	27.53	27.37	0.597	0.566	0.546
100		1	77	27.86	27.52	27.49	0.611	0.565	0.561
100		36	1	26.79	27.30	27.03	0.478	0.537	0.505
100		36	18	27.17	27.29	27.10	0.521	0.536	0.513
100		36	36	26.74	26.91	26.94	0.472	0.491	0.494
100		75	0	26.74	26.50	26.32	0.472	0.447	0.429
100	DFT-s-OFDM 16QAM	1	1	27.25	26.96	26.67	0.531	0.497	0.465
100	DFT-s-OFDM 64QAM	1	1	25.57	25.27	24.98	0.361	0.337	0.315
100	DFT-s-OFDM 256QAM	1	1	23.79	23.51	23.01	0.239	0.224	0.200
Channel				650000	656000	662000	650000	656000	662000
Frequency (MHz)				3750	3840	3930	3750	3840	3930
100	CP-OFDM QPSK	1	1	26.97	26.60	26.34	0.498	0.457	0.431
100	CP-OFDM 16QAM	1	1	26.58	26.23	25.86	0.455	0.420	0.385
100	CP-OFDM 64QAM	1	1	24.71	24.25	23.99	0.296	0.266	0.251
100	CP-OFDM 256QAM	1	1	22.15	21.75	21.47	0.164	0.150	0.140



DC_5A_N77				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	LowCh. /Freq.	MiddIC h./Freq.	HighCh. / Freq.	LowCh. / EIRP	MiddleC h./EIRP	HighCh. / EIRP
Channel				650000	656000	662000	650000	656000	662000
Frequency (MHz)				3750	3840	3930	3750	3840	3930
				dBm			W		
100	DFT-s-OFDM PI/2 BPSK	1	1	27.22	26.94	26.88	0.527	0.494	0.488
100		1	39	26.64	27.25	26.19	0.461	0.531	0.416
100		1	77	26.44	26.33	26.67	0.441	0.430	0.465
100		36	1	25.77	26.18	25.85	0.378	0.415	0.385
100		36	18	25.92	26.18	26.25	0.391	0.415	0.422
100		36	36	26.25	25.81	26.29	0.422	0.381	0.426
100		75	0	26.16	25.98	26.18	0.413	0.396	0.415
100	DFT-s-OFDM QPSK	1	1	27.33	27.51	26.67	0.541	0.564	0.465
100		1	39	26.45	27.27	26.15	0.442	0.533	0.412
100		1	77	25.83	25.81	26.22	0.383	0.381	0.419
100		36	1	25.94	26.60	25.57	0.393	0.457	0.361
100		36	18	26.49	26.19	26.21	0.446	0.416	0.418
100		36	36	25.64	26.20	25.71	0.366	0.417	0.372
100		75	0	25.81	26.31	25.60	0.381	0.428	0.363
100	DFT-s-OFDM 16QAM	1	1	26.54	26.26	25.81	0.451	0.423	0.381
100	DFT-s-OFDM 64QAM	1	1	25.04	24.32	24.05	0.319	0.270	0.254
100	DFT-s-OFDM 256QAM	1	1	23.23	22.64	22.39	0.210	0.184	0.173
Channel				650000	656000	662000	650000	656000	662000
Frequency (MHz)				3750	3840	3930	3750	3840	3930
100	CP-OFDM QPSK	1	1	26.31	25.81	25.40	0.428	0.381	0.347
100	CP-OFDM 16QAM	1	1	25.62	25.19	24.96	0.365	0.330	0.313
100	CP-OFDM 64QAM	1	1	23.83	23.35	23.20	0.242	0.216	0.209
100	CP-OFDM 256QAM	1	1	21.35	20.71	20.45	0.136	0.118	0.111



DC_13A_N77				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	LowCh. /Freq.	MiddIC h./Freq.	HighCh. / Freq.	LowCh. / EIRP	MiddleC h./EIRP	HighCh. / EIRP
Channel				650000	656000	662000	650000	656000	662000
Frequency (MHz)				3750	3840	3930	3750	3840	3930
				dBm			W		
100	DFT-s-OFDM PI/2 BPSK	1	1	27.44	26.94	26.79	0.555	0.494	0.478
100		1	39	26.39	27.25	26.13	0.436	0.531	0.410
100		1	77	26.35	26.36	26.70	0.432	0.433	0.468
100		36	1	26.45	26.89	25.62	0.442	0.489	0.365
100		36	18	26.54	27.24	25.84	0.451	0.530	0.384
100		36	36	26.20	26.55	25.76	0.417	0.452	0.377
100		75	0	26.39	26.87	25.90	0.436	0.486	0.389
100	DFT-s-OFDM QPSK	1	1	27.19	27.46	27.31	0.524	0.557	0.538
100		1	39	26.53	27.09	26.04	0.450	0.512	0.402
100		1	77	26.02	25.83	26.19	0.400	0.383	0.416
100		36	1	25.93	27.19	25.65	0.392	0.524	0.367
100		36	18	26.53	27.18	26.09	0.450	0.522	0.406
100		36	36	25.85	26.29	25.75	0.385	0.426	0.376
100		75	0	25.93	26.38	25.59	0.392	0.435	0.362
100	DFT-s-OFDM 16QAM	1	1	26.72	26.14	25.76	0.470	0.411	0.377
100	DFT-s-OFDM 64QAM	1	1	24.94	24.10	24.00	0.312	0.257	0.251
100	DFT-s-OFDM 256QAM	1	1	23.20	22.60	22.36	0.209	0.182	0.172
Channel				650000	656000	662000	650000	656000	662000
Frequency (MHz)				3750	3840	3930	3750	3840	3930
100	CP-OFDM QPSK	1	1	26.26	25.53	25.40	0.423	0.357	0.347
100	CP-OFDM 16QAM	1	1	25.95	25.10	25.01	0.394	0.324	0.317
100	CP-OFDM 64QAM	1	1	23.97	23.20	23.07	0.249	0.209	0.203
100	CP-OFDM 256QAM	1	1	21.28	20.93	20.40	0.134	0.124	0.110



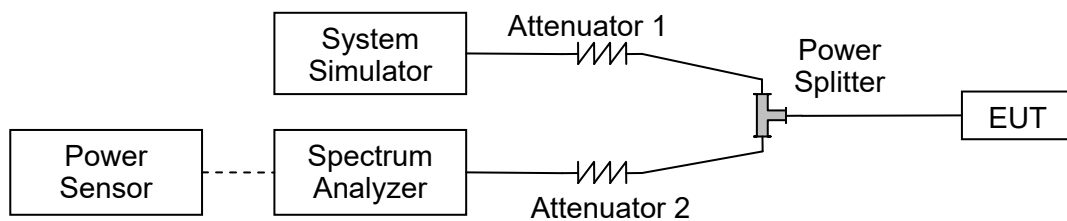
DC_66A_N77				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	LowCh. /Freq.	MiddIC h./Freq.	HighCh. / Freq.	LowCh. / EIRP	MiddleC h./EIRP	HighCh. / EIRP
Channel				650000	656000	662000	650000	656000	662000
Frequency (MHz)				3750	3840	3930	3750	3840	3930
				dBm			W		
100	DFT-s-OFDM PI/2 BPSK	1	1	27.22	27.01	26.88	0.527	0.502	0.488
100		1	39	26.70	27.24	26.23	0.468	0.530	0.420
100		1	77	26.47	26.18	26.59	0.444	0.415	0.456
100		36	1	26.61	26.91	25.56	0.458	0.491	0.360
100		36	18	26.67	27.25	25.84	0.465	0.531	0.384
100		36	36	26.40	26.47	25.66	0.437	0.444	0.368
100		75	0	26.51	26.90	25.78	0.448	0.490	0.378
100	DFT-s-OFDM QPSK	1	1	27.59	27.05	25.92	0.574	0.507	0.391
100		1	39	26.69	27.26	26.18	0.467	0.532	0.415
100		1	77	26.03	25.83	26.20	0.401	0.383	0.417
100		36	1	26.14	26.42	25.58	0.411	0.439	0.361
100		36	18	26.71	27.36	26.01	0.469	0.545	0.399
100		36	36	25.85	26.36	25.83	0.385	0.433	0.383
100		75	0	25.98	26.32	25.66	0.396	0.429	0.368
100	DFT-s-OFDM 16QAM	1	1	26.79	26.13	25.86	0.478	0.410	0.385
100	DFT-s-OFDM 64QAM	1	1	24.79	24.29	24.02	0.301	0.269	0.252
100	DFT-s-OFDM 256QAM	1	1	23.13	22.64	22.45	0.206	0.184	0.176
Channel				650000	656000	662000	650000	656000	662000
Frequency (MHz)				3750	3840	3930	3750	3840	3930
100	CP-OFDM QPSK	1	1	26.36	25.77	25.33	0.433	0.378	0.341
100	CP-OFDM 16QAM	1	1	25.96	25.32	25.05	0.394	0.340	0.320
100	CP-OFDM 64QAM	1	1	23.85	23.28	23.11	0.243	0.213	0.205
100	CP-OFDM 256QAM	1	1	21.65	20.66	20.44	0.146	0.116	0.111

2.2. Occupied Bandwidth

2.2.1. Requirement

According to FCC section 2.1049, the occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission. Occupied bandwidth is also known as the 99% emission bandwidth.

2.2.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.2.3. Test procedure

KDB 971168 D01v03 Section 4.1 and ANSI/TIA-603-E-2016.

2.2.4. Test Result

Note: The test results please refer to Report No.:SZ21010262W04.

2.3. Frequency Stability

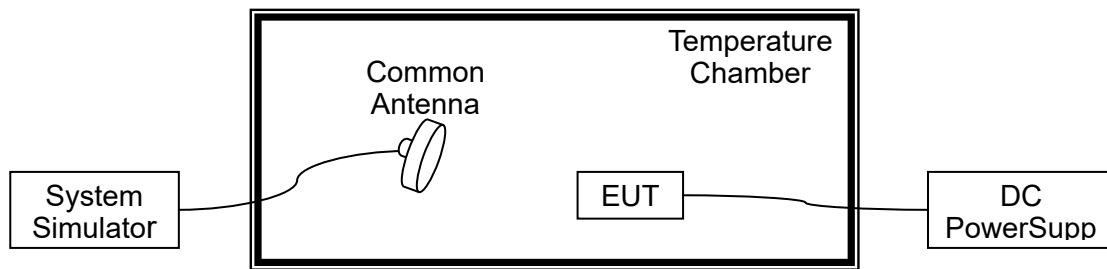
2.3.1. Requirement

According to FCC section 2.1055, 22.355, 243.235& 27.54, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. According to FCC section 2.1055, the test conditions are:

- (a) The temperature is varied from -30°C to $+50^{\circ}\text{C}$ at intervals of not more than 10°C .
- (b) For hand carried battery powered equipment, the primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacture. The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

Note: The operating temperature of EUT is from 0°C to 45°C , which are specified by the applicant.

2.3.2. Test Description



The EUT which is powered by the DC Power Supply directly, is located in the Temperature Chamber. The EUT is commanded by the System Simulator (SS) to operate at the maximum output power. A call is established between the EUT and the SS via a Common Antenna.

2.3.3. Test procedure

KDB 971168 D01v03 Section 9.0 and ANSI/TIA-603-E-2016.

2.3.4. Test Result

Note: The test results please refer to Report No.:SZ21010262W04.

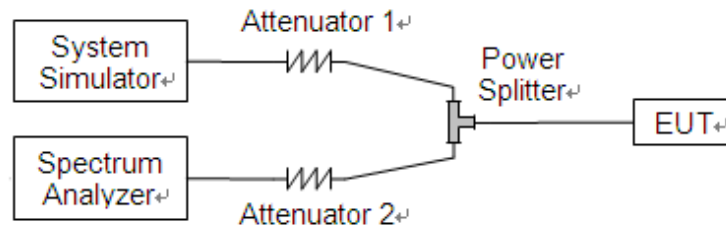
2.4. Peak to Average Ratio

2.4.1. Requirement

According to FCC section 24.232(d), section 27.50(d) (5) & section 27.50(j) (4), the peak to average ratio (PAR) of the transmission may not exceed 13dB.

2.4.2. Test Description

Test Set:



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.4.3. Test procedure

KDB 971168 D01v03 Section 5.7 and ANSI/TIA-603-E-2016.

2.4.4. Test Result

Note: The test results please refer to Report No.:SZ21010262W04.

2.5. Conducted Spurious Emissions

2.5.1. Requirement

According to FCC section 2.1051, the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43+10*\log(P)$ dB. This calculated to be -13 dBm.

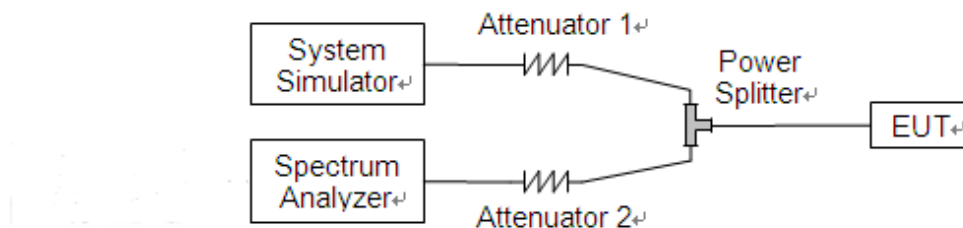
According to FCC section 24.238(a) for N2, The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

According to FCC section 22.917(a) for N5, the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

According to FCC section 27.53(h) for N66, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10} (P)$ dB.

According to FCC section 27.53(l) for N78, for mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

2.5.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the



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SS.



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2.5.3. Test procedure

KDB 971168 D01v03 Section 6.0 and ANSI/TIA-603-E-2016.

2.5.4. Test Result

Note: The test results please refer to Report No.:SZ21010262W04.



2.6. Band Edge

2.6.1. Requirement

According to FCC section 2.1051, the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

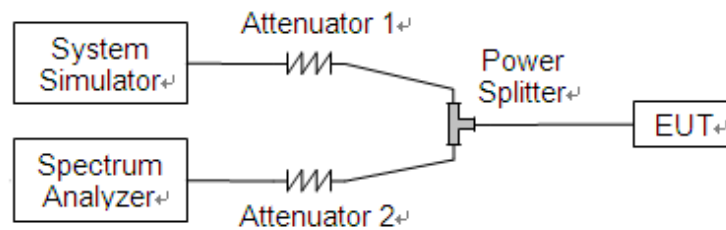
According to FCC section 24.238(a) for N2, The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

According to FCC section 22.917(a) for N5, the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

According to FCC section 27.53(h) for N66, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.

According to FCC section 27.53(l) for N77, for mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

2.6.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.6.3. Test procedure

KDB 971168 D01v03 Section 6.0 and ANSI/TIA-603-E-2016.

2.6.4. Test Result

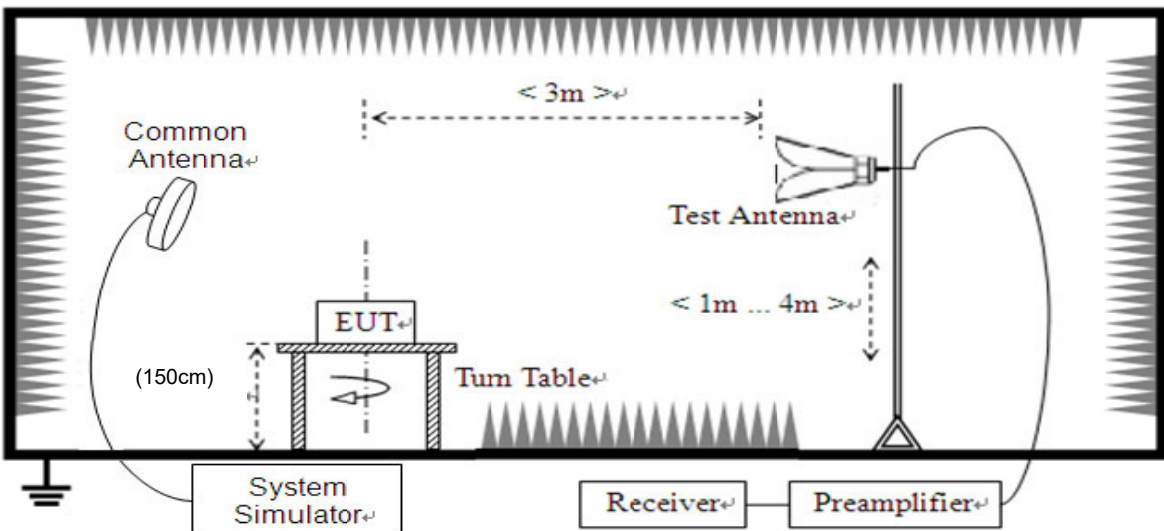
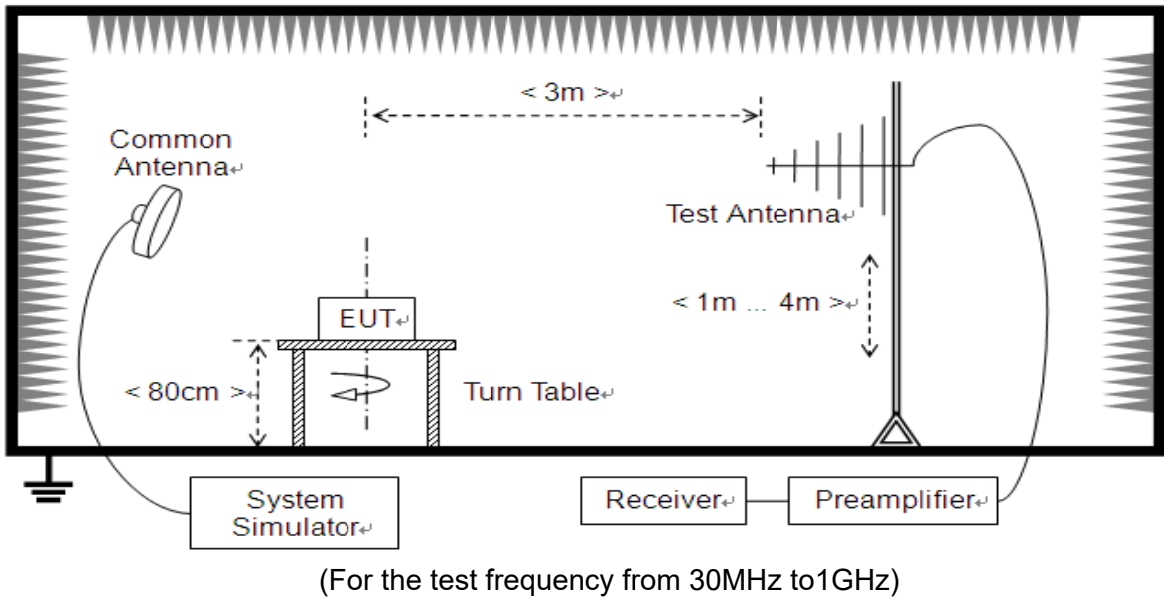
Note: The test results please refer to Report No.:SZ21010262W04.

2.7. Radiated Spurious Emissions

2.7.1. Requirement

According to FCC section 2.1051, section 22.917(a), section 24.238(a), section 27.53(h) and section 27.53(g), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \cdot \log(P)$ dB. This calculated to be -13dBm.

2.7.2. Test Description





(For the test frequency above 1GHz)

The EUT is located in a 3m Full-Anechoic Chamber, the cable loss, air loss and so on of the site as factors are pre-calibrated using the "Substitution" method, and calculated to correct the reading.

A call is established between the EUT and the SS via a Common Antenna. The EUT is commanded by the SS to operate at the maximum and minimum output power, and only the test result of the maximum output power was recorded.

In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground and the Turn Table is actuated to turn from 0° to 360° to determine the maximum value of the radiated power. The emission levels at both horizontal and vertical polarizations should be tested. The Filters consists of Notch Filters and High Pass Filter.

Note: when doing measurements above 1GHz, the EUT has been within the 3dB cone width of the horn antenna during horizontal antenna.

2.7.3. Test procedure

KDB 971168 D01v03 Section 5.8 and ANSI/TIA-603-E-2016.

2.7.4. Test Result

The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. Test Antenna height is varied from 1m to 4m above the ground, and the Turn Table is actuated to turn from 0° to 360°, both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The substitution corrections are obtained as described below:

$$A_{\text{SUBST}} = P_{\text{SUBST_TX}} - P_{\text{SUBST_RX}} - L_{\text{SUBST_CABLES}} + G_{\text{SUBST_TX_ANT}}$$

$$A_{\text{TOT}} = L_{\text{CABLES}} + A_{\text{SUBST}}$$

Where A_{SUBST} is the final substitution correction including receive antenna gain.

$P_{\text{SUBST_TX}}$ is signal generator level,



$P_{\text{SUBST_RX}}$ is receiver level,

$L_{\text{SUBST_CABLES}}$ is cable losses including TX cable,

$G_{\text{SUBST_TX_ANT}}$ is substitution antenna gain.

A_{TOT} is total correction factor including cable loss and substitution correction

During the test, the data of A_{TOT} was added in the Test Spectrum Analyze, so Spectrum Analyze reading is the final values which contain the data of A_{TOT} .

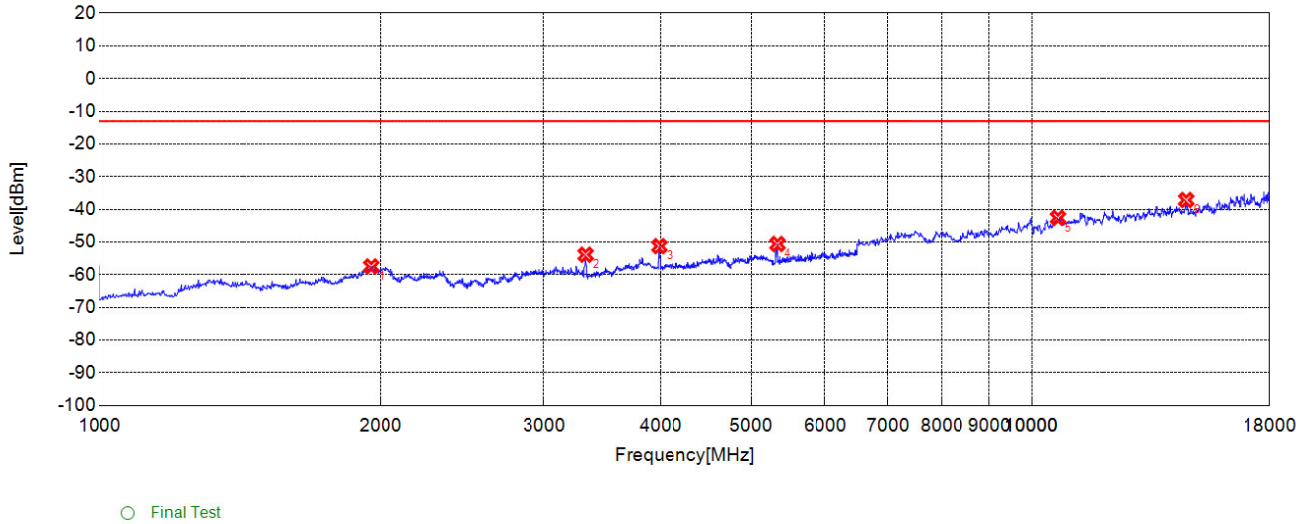
Note1: The power of the EUT transmitting frequency should be ignored.

Note2: All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Note3: All bandwidth and modulation were considered and evaluated respectively by performing full test for each band, only the worst cases (Max Bandwidth and QPSK mode) were recorded in this test report.



Test Graph

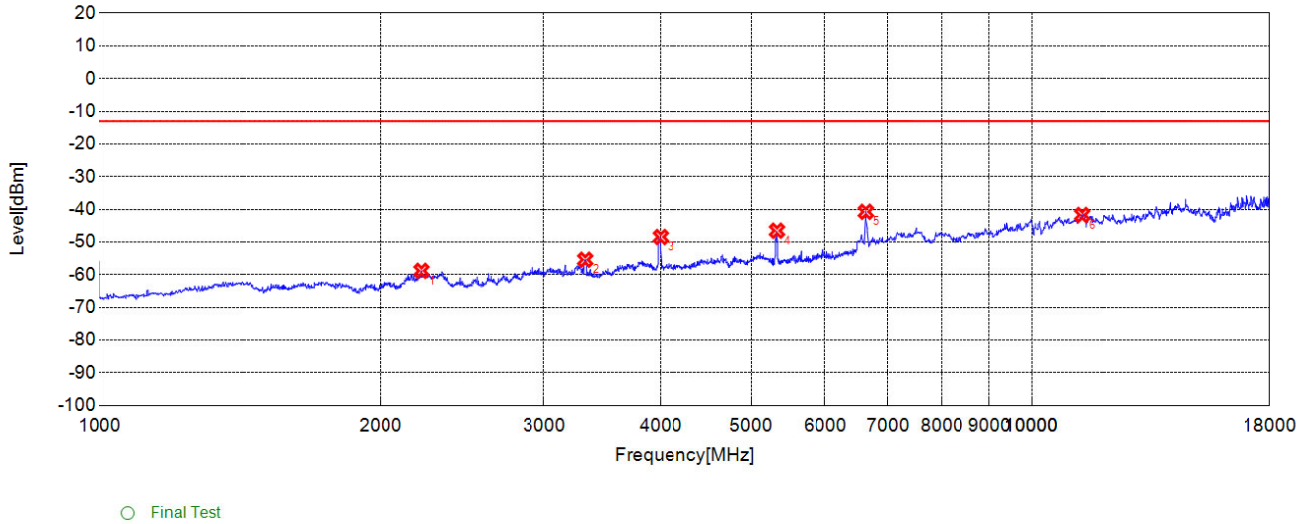


Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	1952.9530	-57.47	-13.00	44.47	-5.04	-46.42	41.38	Horizontal
2	3325.8260	-53.88	-13.00	40.88	-9.98	-48.05	38.07	Horizontal
3	3984.4840	-51.27	-13.00	38.27	-7.69	-47.33	39.64	Horizontal
4	5333.3330	-50.61	-13.00	37.61	-2.61	-43.15	40.54	Horizontal
5	10667.1670	-42.61	-13.00	29.61	13.86	-34.74	48.60	Horizontal
6	14650.1500	-37.15	-13.00	24.15	22.61	-27.14	49.75	Horizontal

DC_66A_N2 372000 20M DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 15KHz 1-18G H



Test Graph

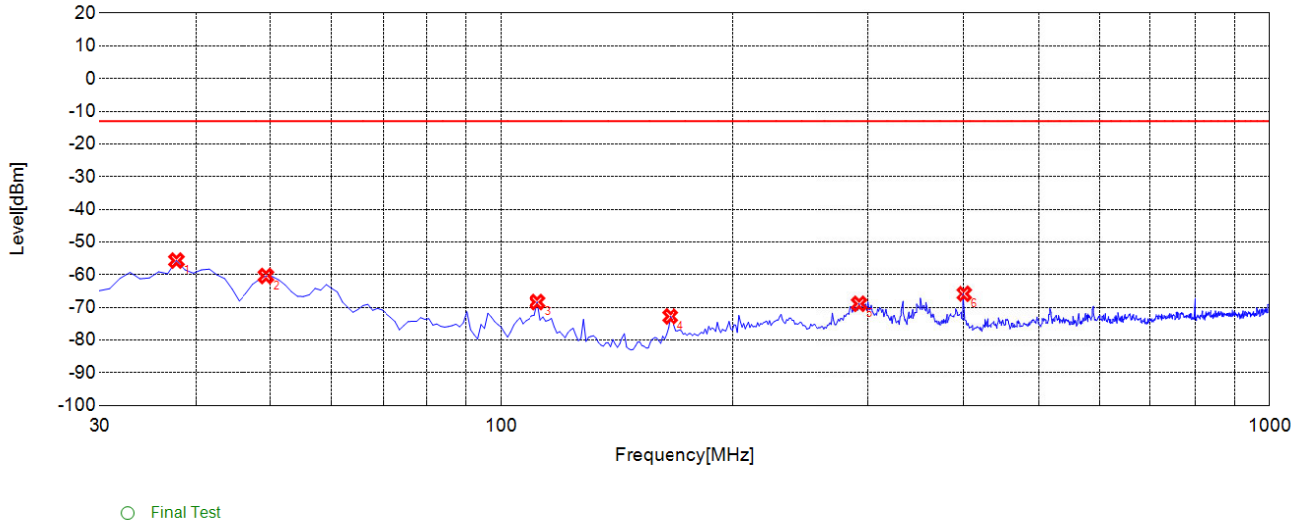


Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	2215.2150	-58.81	-13.00	45.81	-7.57	-47.01	39.44	Vertical
2	3322.3220	-55.42	-13.00	42.42	-10.55	-48.05	37.50	Vertical
3	3998.4980	-48.47	-13.00	35.47	-8.16	-47.33	39.17	Vertical
4	5326.3260	-46.54	-13.00	33.54	-3.11	-43.21	40.10	Vertical
5	6638.1380	-40.76	-13.00	27.76	4.15	-39.19	43.34	Vertical
6	11323.3230	-41.72	-13.00	28.72	15.41	-33.60	49.01	Vertical

DC_66A_N2 372000 20M DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 15KHz 1-18G V



Test Graph

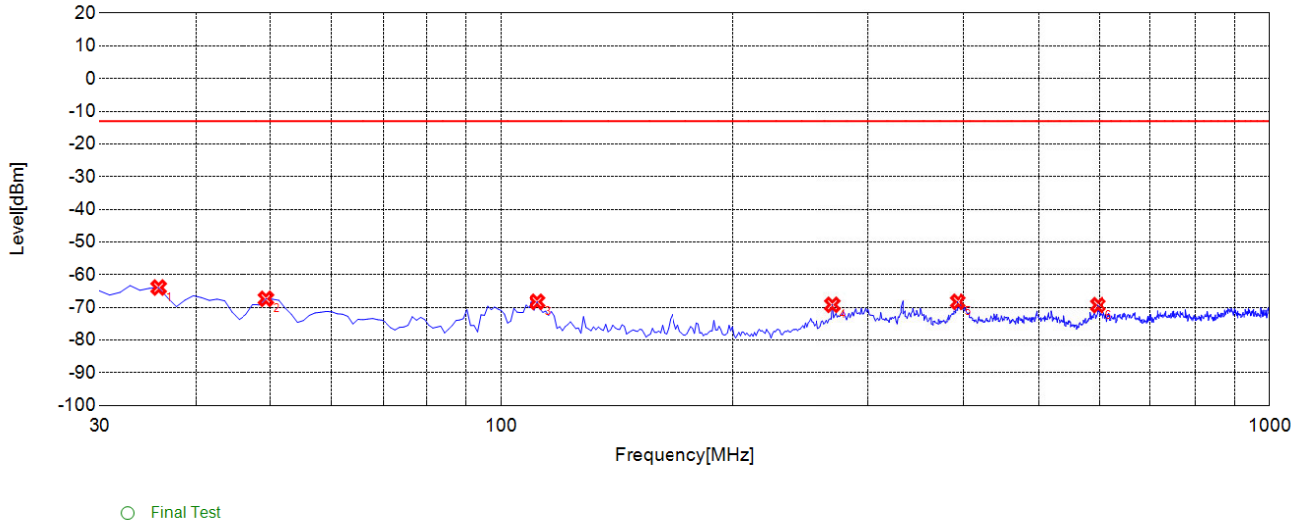


Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	37.7680	-55.68	-13.00	42.68	-8.07	-39.56	31.49	Horizontal
2	49.4190	-60.39	-13.00	47.39	-7.01	-39.46	32.45	Horizontal
3	111.5620	-68.37	-13.00	55.37	-17.73	-38.68	20.95	Horizontal
4	165.9360	-72.77	-13.00	59.77	-18.94	-38.23	19.29	Horizontal
5	292.1620	-68.9	-13.00	55.90	-11.84	-36.97	25.13	Horizontal
6	399.9400	-65.84	-13.00	52.84	-10.14	-36.26	26.12	Horizontal

DC_66A_N2 372000 20M DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 15KHz 30M-1G H



Test Graph

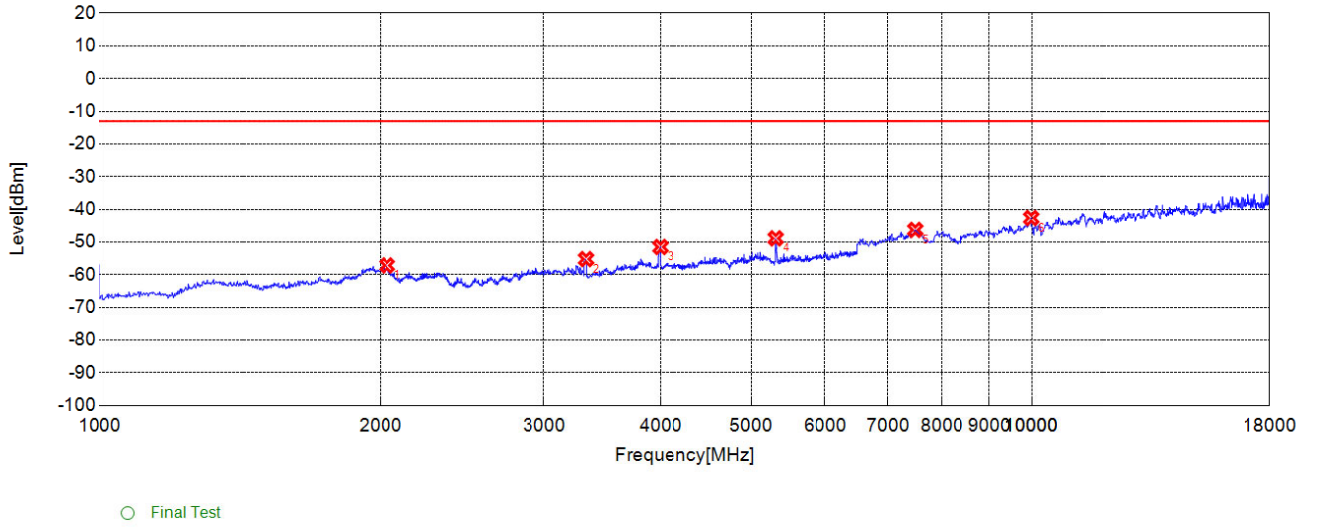


Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	35.8260	-63.93	-13.00	50.93	-16.61	-39.57	22.96	Vertical
2	49.4190	-67.38	-13.00	54.38	-15.27	-39.46	24.19	Vertical
3	111.5620	-68.29	-13.00	55.29	-16.00	-38.68	22.68	Vertical
4	269.8300	-69.21	-13.00	56.21	-13.17	-37.11	23.94	Vertical
5	392.1720	-68.29	-13.00	55.29	-10.05	-36.39	26.34	Vertical
6	598.0180	-69.32	-13.00	56.32	-5.37	-34.93	29.56	Vertical

DC_66A_N2 372000 20M DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 15KHz 30M-1G V



Test Graph

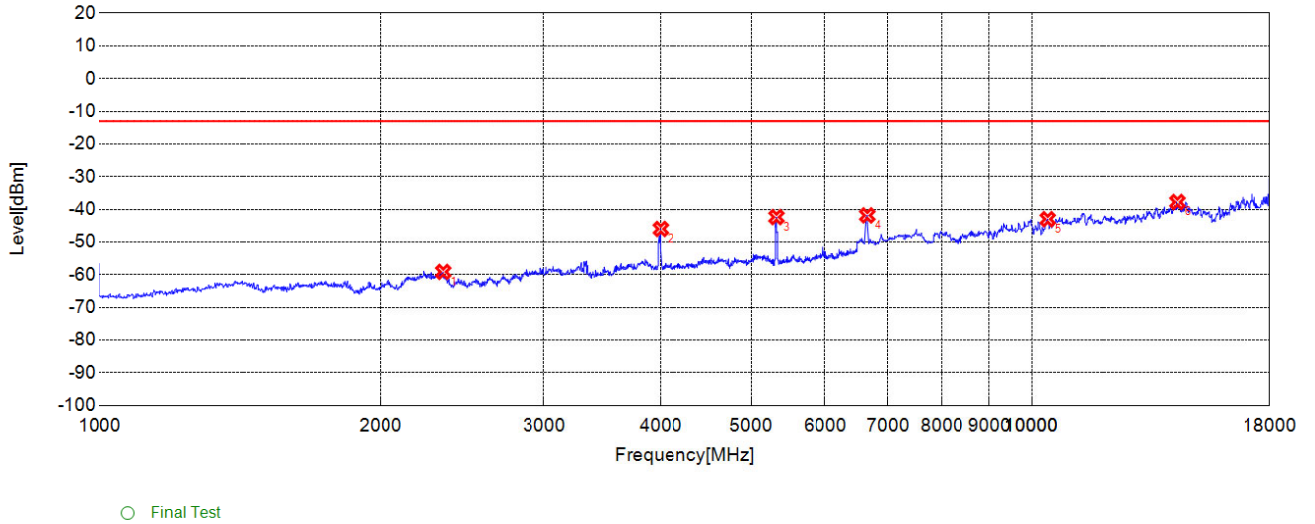


Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	2033.0330	-57.16	-13.00	44.16	-5.60	-46.57	40.97	Horizontal
2	3329.3290	-55.22	-13.00	42.22	-9.97	-48.05	38.08	Horizontal
3	3994.9950	-51.52	-13.00	38.52	-7.71	-47.33	39.62	Horizontal
4	5308.8090	-48.88	-13.00	35.88	-2.94	-43.33	40.39	Horizontal
5	7489.9900	-46.29	-13.00	33.29	10.46	-35.67	46.13	Horizontal
6	9987.9880	-42.67	-13.00	29.67	14.01	-34.38	48.39	Horizontal

DC_66A_N2 376000 20M DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 15KHz 1-18G H



Test Graph

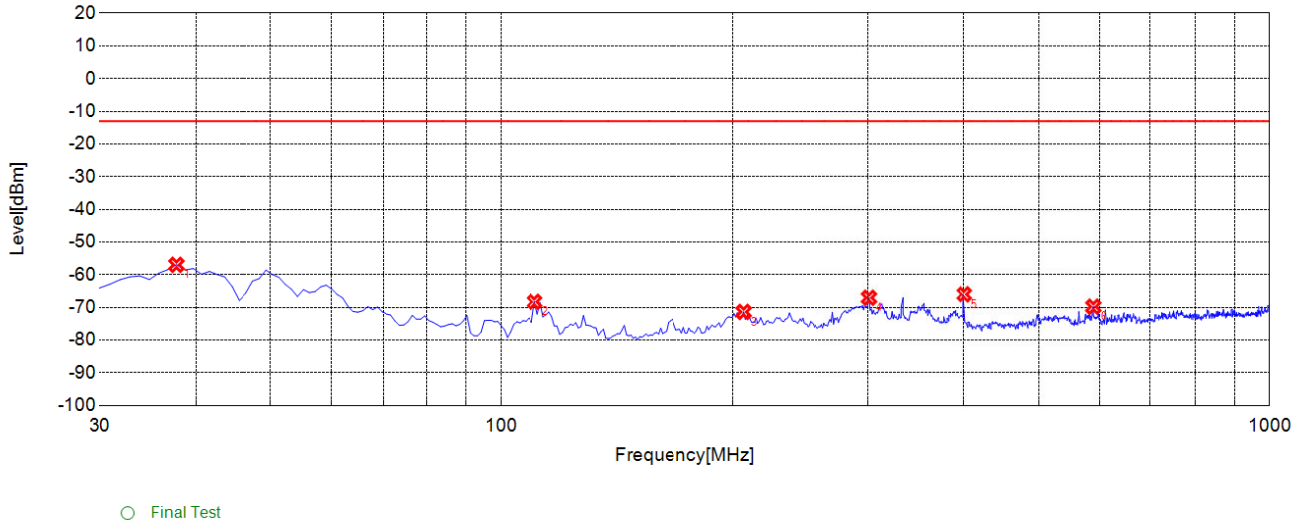


Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	2337.3370	-59.14	-13.00	46.14	-8.18	-46.49	38.31	Vertical
2	3998.4980	-46.01	-13.00	33.01	-8.16	-47.33	39.17	Vertical
3	5319.3190	-42.38	-13.00	29.38	-3.20	-43.26	40.06	Vertical
4	6661.1610	-41.86	-13.00	28.86	3.96	-39.21	43.17	Vertical
5	10402.4020	-43.01	-13.00	30.01	15.20	-34.42	49.62	Vertical
6	14339.3390	-37.77	-13.00	24.77	22.58	-28.06	50.64	Vertical

DC_66A_N2 376000 20M DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 15KHz 1-18G V



Test Graph

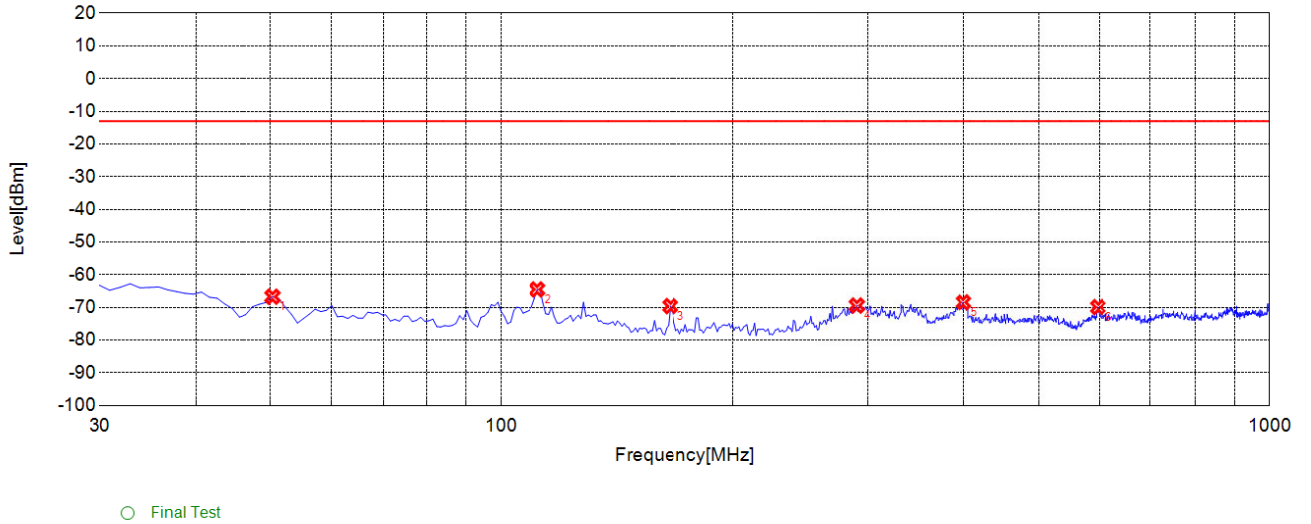


Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	37.7680	-56.98	-13.00	43.98	-8.07	-39.56	31.49	Horizontal
2	110.5910	-68.29	-13.00	55.29	-17.68	-38.68	21.00	Horizontal
3	206.7170	-71.39	-13.00	58.39	-14.34	-37.66	23.32	Horizontal
4	300.9010	-67.05	-13.00	54.05	-12.13	-36.96	24.83	Horizontal
5	399.9400	-66.01	-13.00	53.01	-10.14	-36.26	26.12	Horizontal
6	589.2790	-69.79	-13.00	56.79	-6.19	-34.91	28.72	Horizontal

DC_66A_N2 376000 20M DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 15KHz 30M-1G H



Test Graph

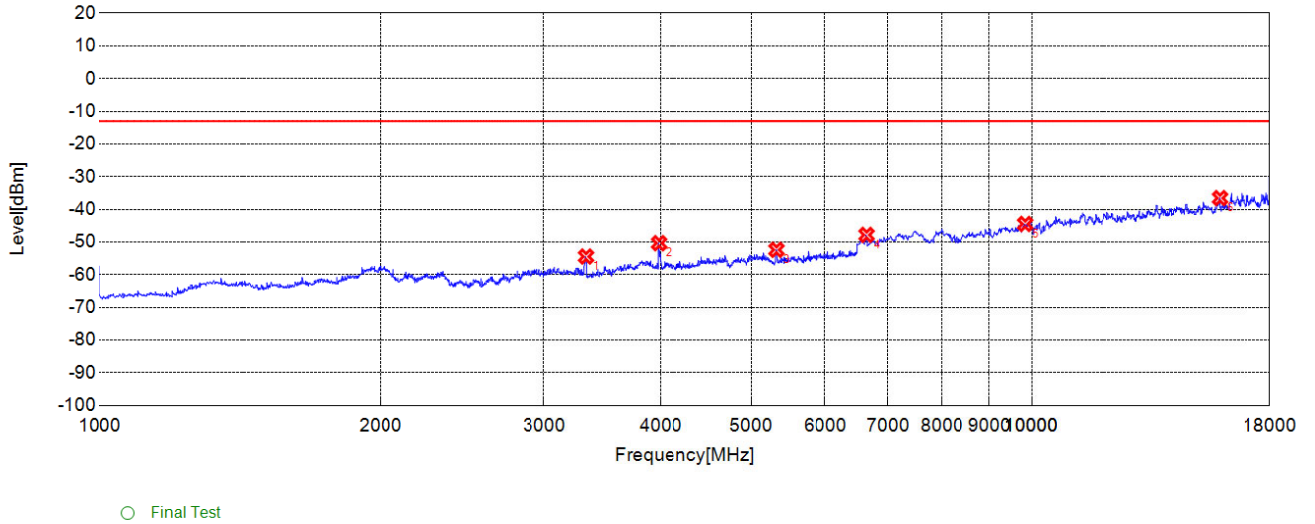


Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	50.3900	-66.73	-13.00	53.73	-15.33	-39.46	24.13	Vertical
2	111.5620	-64.51	-13.00	51.51	-16.00	-38.68	22.68	Vertical
3	165.9360	-69.61	-13.00	56.61	-17.07	-38.23	21.16	Vertical
4	290.2200	-69.44	-13.00	56.44	-12.08	-36.97	24.89	Vertical
5	398.9690	-68.45	-13.00	55.45	-9.51	-36.28	26.77	Vertical
6	598.0180	-69.93	-13.00	56.93	-5.37	-34.93	29.56	Vertical

DC_66A_N2 376000 20M DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 15KHz 30M-1G V



Test Graph

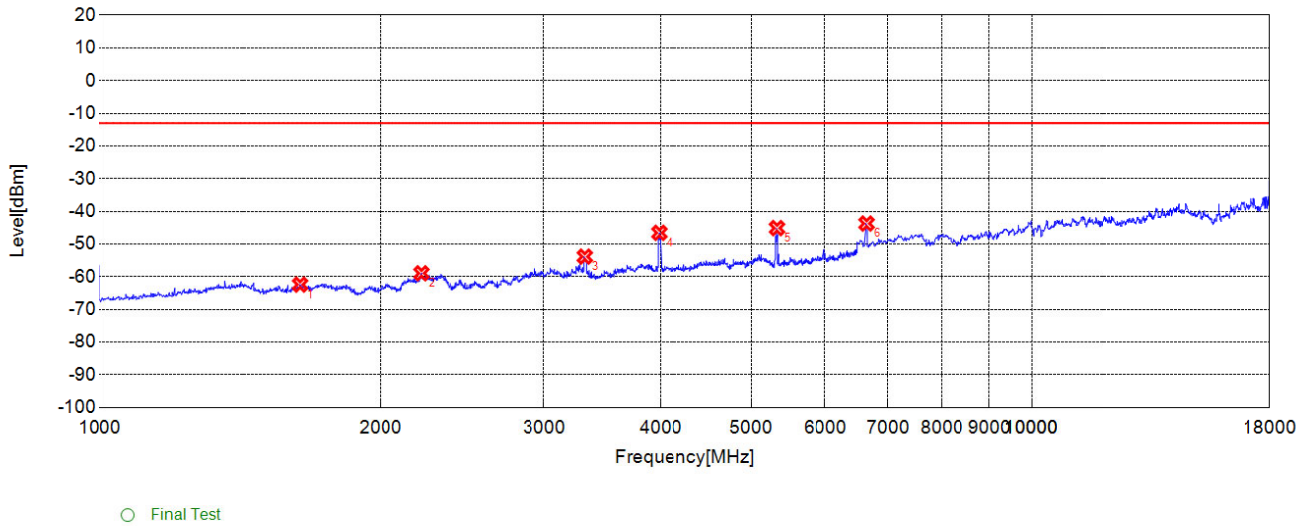


Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	3329.3290	-54.45	-13.00	41.45	-9.97	-48.05	38.08	Horizontal
2	3980.9810	-50.36	-13.00	37.36	-7.68	-47.33	39.65	Horizontal
3	5319.3190	-52.39	-13.00	39.39	-2.81	-43.26	40.45	Horizontal
4	6649.6500	-47.83	-13.00	34.83	3.96	-39.22	43.18	Horizontal
5	9838.3380	-44.48	-13.00	31.48	13.24	-35.54	48.78	Horizontal
6	15916.4160	-36.57	-13.00	23.57	22.98	-27.73	50.71	Horizontal

DC_66A_N2 380000 20M DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 15KHz 1-18G H



Test Graph

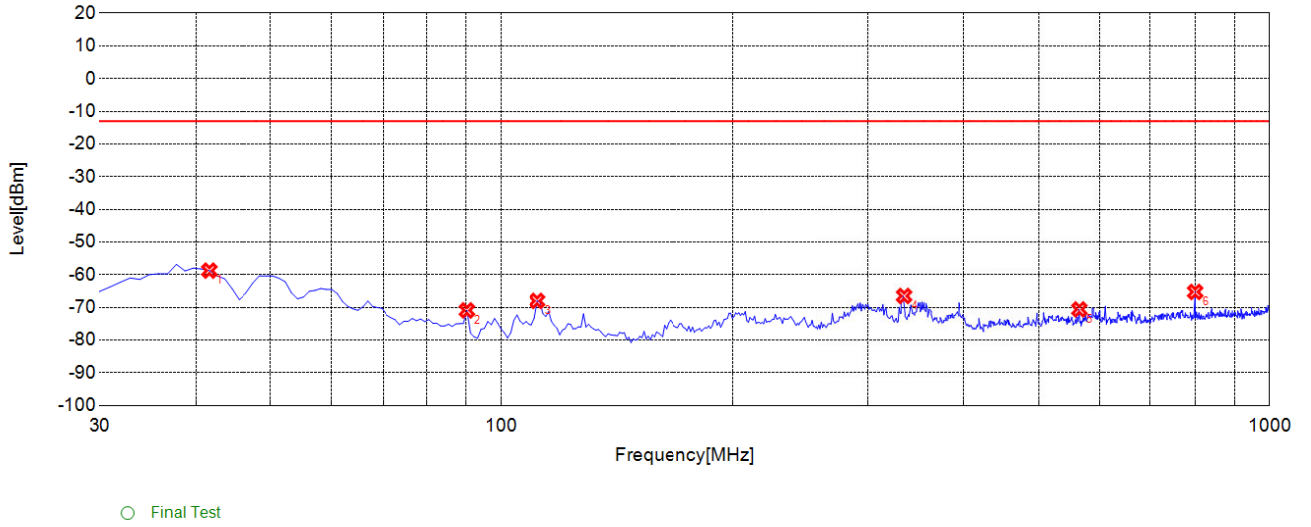


Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	1640.6410	-62.42	-13.00	49.42	-9.86	-46.17	36.31	Vertical
2	2215.2150	-58.95	-13.00	45.95	-7.57	-47.01	39.44	Vertical
3	3318.8190	-53.85	-13.00	40.85	-10.56	-48.05	37.49	Vertical
4	3984.4840	-46.58	-13.00	33.58	-8.13	-47.33	39.20	Vertical
5	5326.3260	-45.13	-13.00	32.13	-3.11	-43.21	40.10	Vertical
6	6649.6500	-43.74	-13.00	30.74	4.03	-39.22	43.25	Vertical

DC_66A_N2 380000 20M DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 15KHz 1-18G V



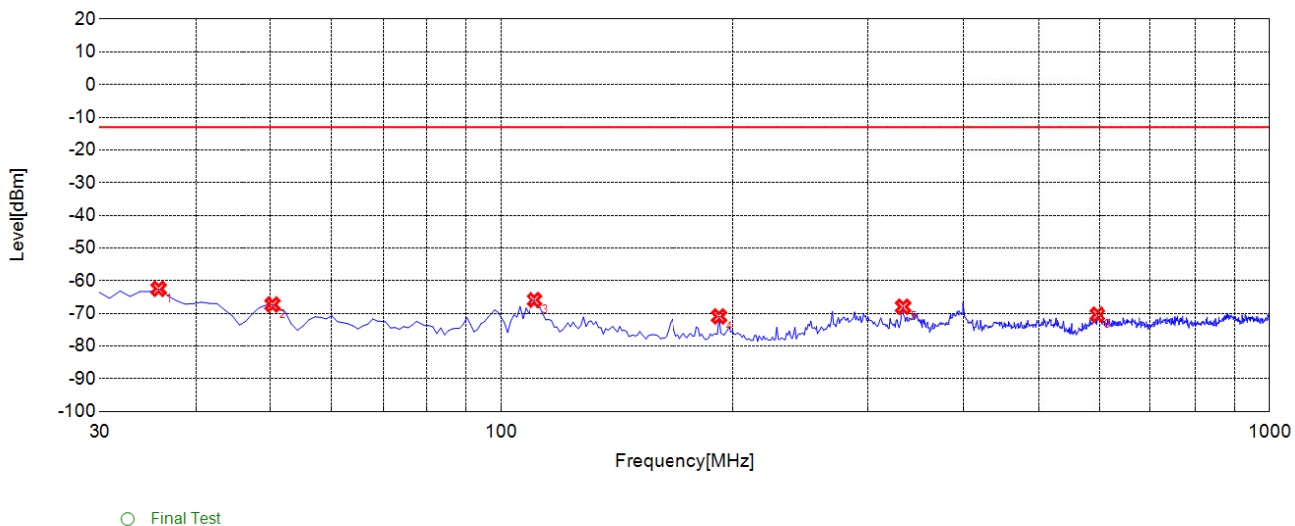
Test Graph



Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	41.6520	-58.76	-13.00	45.76	-7.05	-39.53	32.48	Horizontal
2	90.2000	-70.92	-13.00	57.92	-18.92	-38.71	19.79	Horizontal
3	111.5620	-68.01	-13.00	55.01	-17.73	-38.68	20.95	Horizontal
4	333.9140	-66.51	-13.00	53.51	-11.99	-37.03	25.04	Horizontal
5	565.0050	-70.63	-13.00	57.63	-7.15	-34.84	27.69	Horizontal
6	799.9800	-65.27	-13.00	52.27	-3.49	-34.24	30.75	Horizontal

DC_66A_N2 380000 20M DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 15KHz 30M-1G H

Test Graph

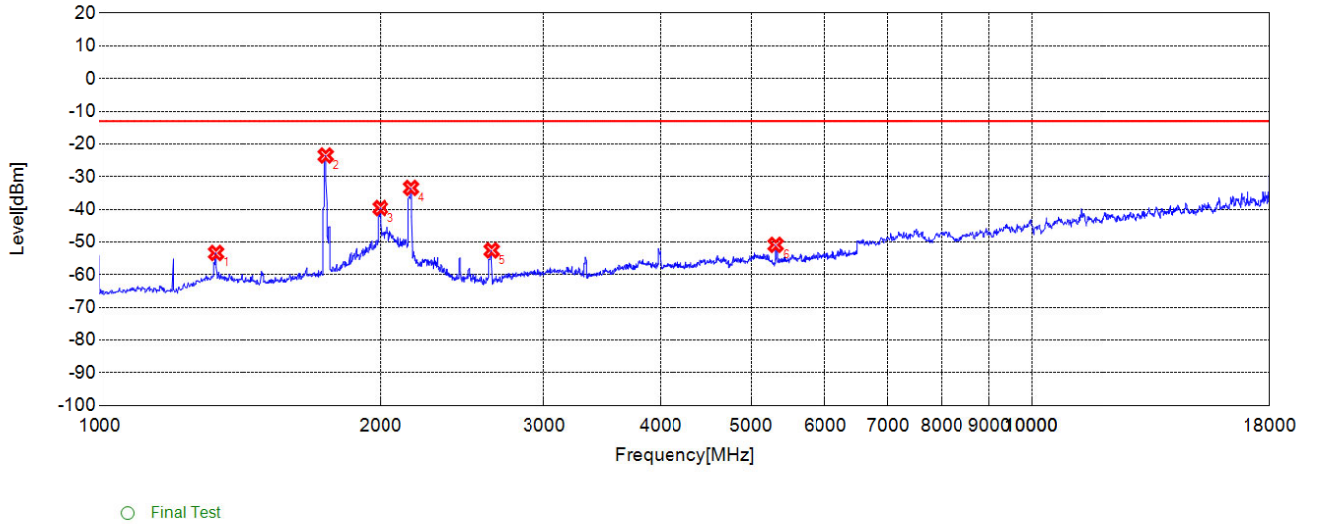


Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	35.8260	-62.49	-13.00	49.49	-16.61	-39.57	22.96	Vertical
2	50.3900	-67.29	-13.00	54.29	-15.33	-39.46	24.13	Vertical
3	110.5910	-65.92	-13.00	52.92	-16.08	-38.68	22.60	Vertical
4	192.1520	-70.93	-13.00	57.93	-15.55	-38.04	22.49	Vertical
5	332.9430	-67.98	-13.00	54.98	-10.83	-37.03	26.20	Vertical
6	597.0470	-70.4	-13.00	57.40	-5.37	-34.93	29.56	Vertical

DC_66A_N2 380000 20M DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 15KHz 30M-1G V



Test Graph

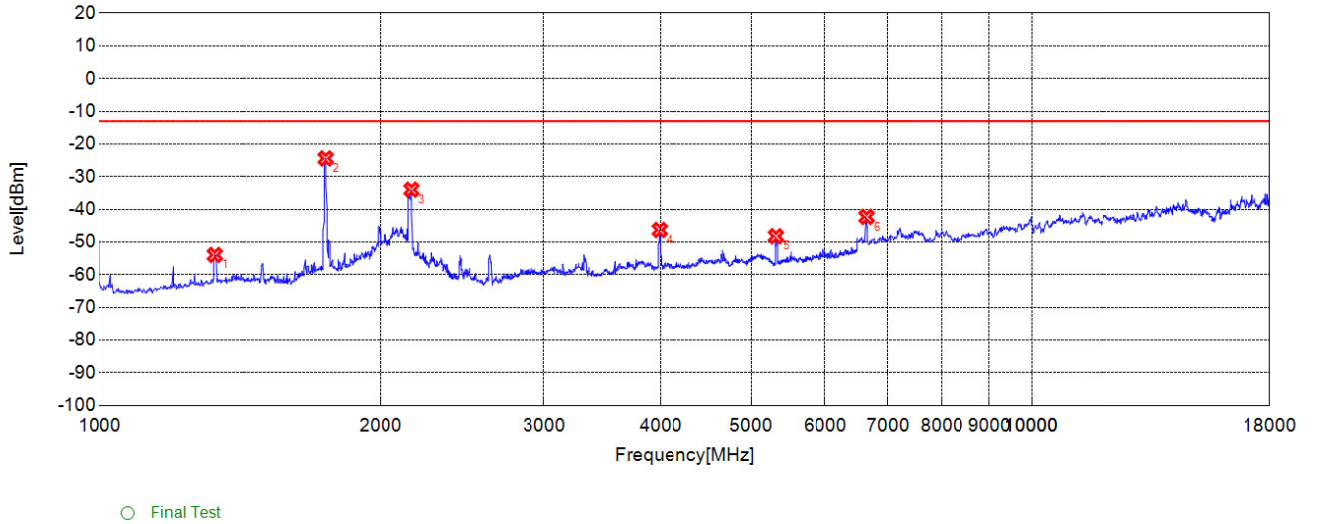


Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	1332.3320	-53.36	-13.00	40.36	-7.85	-45.28	37.43	Horizontal
2	1746.7470	-23.54	-13.00	10.54	-8.28	-46.27	37.99	NA
3	1998.9990	-39.6	-13.00	26.60	-4.24	-46.27	42.03	Horizontal
4	2159.1590	-33.46	-13.00	20.46	-7.78	-46.75	38.97	NA
5	2633.6340	-52.56	-13.00	39.56	-10.16	-47.21	37.05	Horizontal
6	5308.8090	-50.87	-13.00	37.87	-2.94	-43.33	40.39	Horizontal

DC_66A_N5 166800 20M DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 15KHz 1-18G H



Test Graph

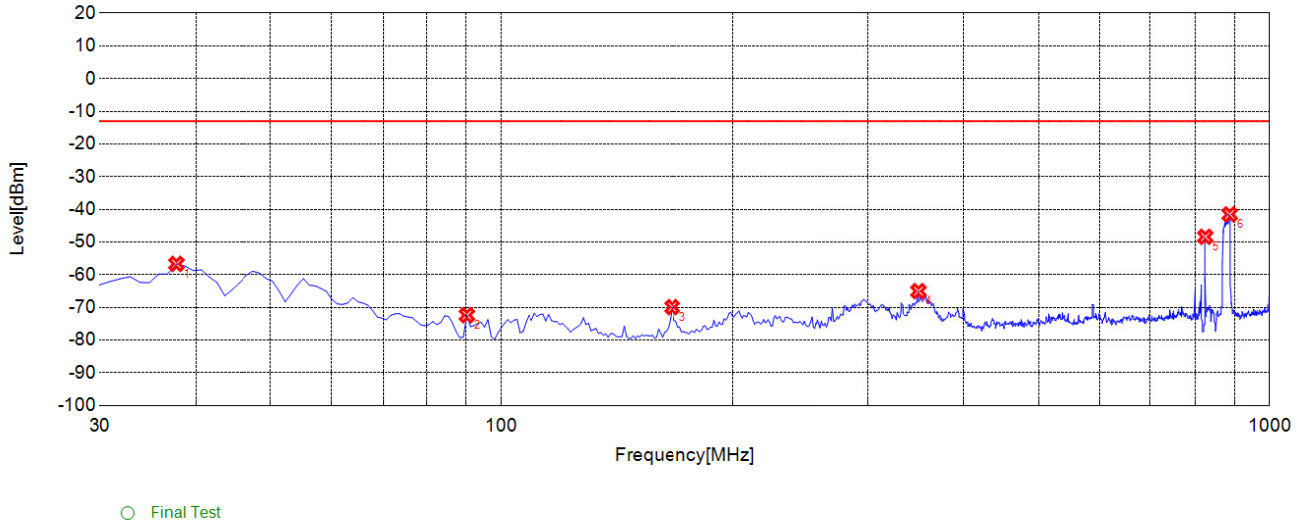


Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	1328.3280	-53.95	-13.00	40.95	-8.92	-45.28	36.36	Vertical
2	1746.7470	-24.42	-13.00	11.42	-9.27	-46.27	37.00	NA
3	2161.1610	-33.99	-13.00	20.99	-8.25	-46.76	38.51	NA
4	3987.9880	-46.31	-13.00	33.31	-8.14	-47.33	39.19	Vertical
5	5312.3120	-48.24	-13.00	35.24	-3.28	-43.31	40.03	Vertical
6	6649.6500	-42.32	-13.00	29.32	4.03	-39.22	43.25	Vertical

DC_66A_N5 166800 20M DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 15KHz 1-18G V



Test Graph

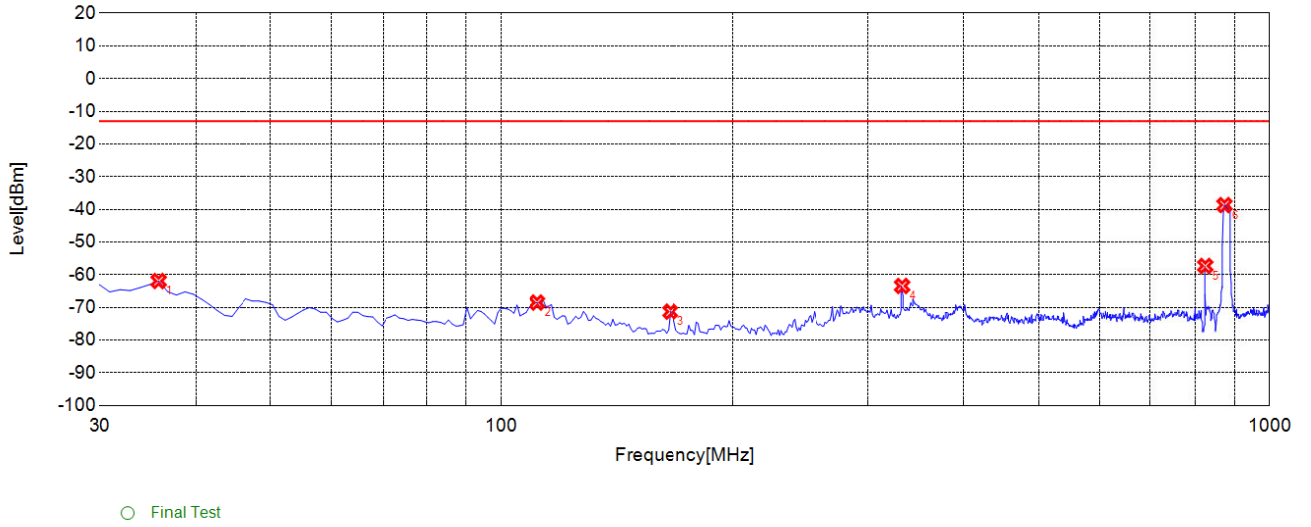


Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	37.7680	-56.7	-13.00	43.70	-8.07	-39.56	31.49	Horizontal
2	90.2000	-72.39	-13.00	59.39	-18.92	-38.71	19.79	Horizontal
3	166.9070	-69.93	-13.00	56.93	-18.82	-38.20	19.38	Horizontal
4	348.4780	-65.04	-13.00	52.04	-10.47	-36.99	26.52	Horizontal
5	824.2540	-48.4	-13.00	35.40	-3.01	-34.17	31.16	NA
6	886.3960	-41.55	-13.00	28.55	-2.06	-34.00	31.94	NA

DC_66A_N5 166800 20M DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 15KHz 30M-1G H



Test Graph

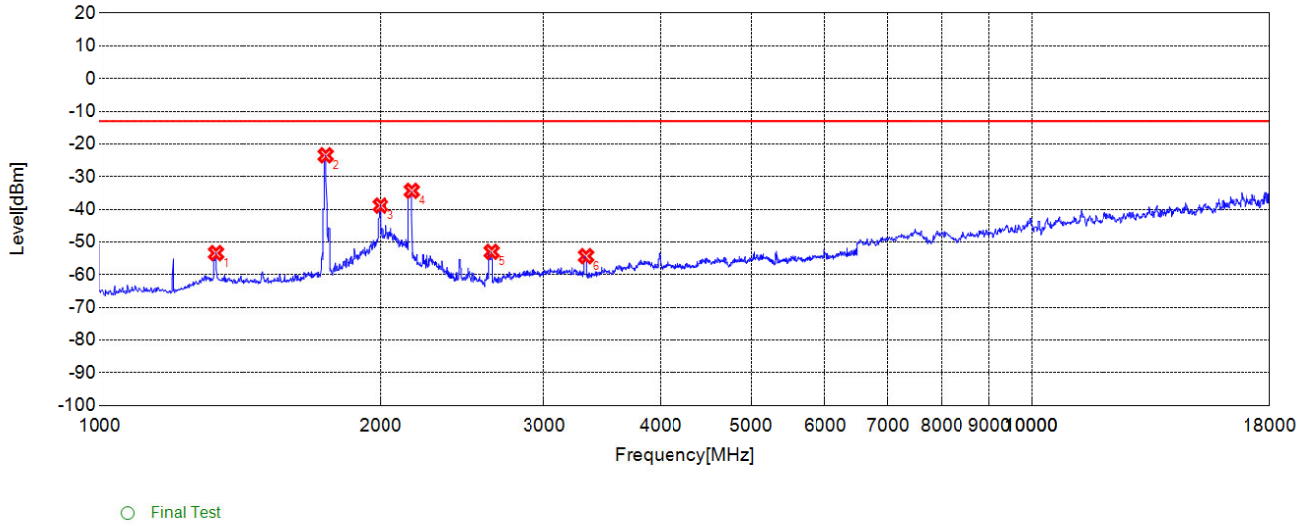


Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	35.8260	-61.93	-13.00	48.93	-16.61	-39.57	22.96	Vertical
2	111.5620	-68.51	-13.00	55.51	-16.00	-38.68	22.68	Vertical
3	165.9360	-71.3	-13.00	58.30	-17.07	-38.23	21.16	Vertical
4	331.9720	-63.45	-13.00	50.45	-10.92	-37.04	26.12	Vertical
5	824.2540	-57.33	-13.00	44.33	-2.81	-34.17	31.36	NA
6	872.8030	-38.7	-13.00	25.70	-2.08	-34.04	31.96	NA

DC_66A_N5 166800 20M DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 15KHz 30M-1G V



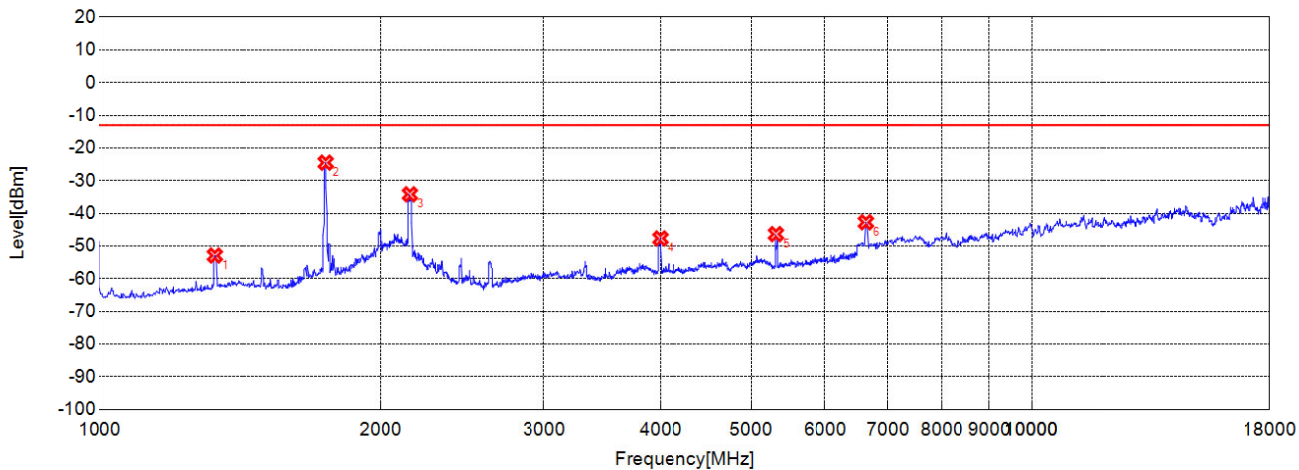
Test Graph



Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	1332.3320	-53.39	-13.00	40.39	-7.85	-45.28	37.43	Horizontal
2	1746.7470	-23.47	-13.00	10.47	-8.28	-46.27	37.99	NA
3	1998.9990	-38.87	-13.00	25.87	-4.24	-46.27	42.03	Horizontal
4	2163.1630	-34.34	-13.00	21.34	-7.78	-46.77	38.99	NA
5	2633.6340	-52.99	-13.00	39.99	-10.16	-47.21	37.05	Horizontal
6	3329.3290	-54.33	-13.00	41.33	-9.97	-48.05	38.08	Horizontal

DC_66A_N5 167300 20M DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 15KHz 1-18G H

Test Graph



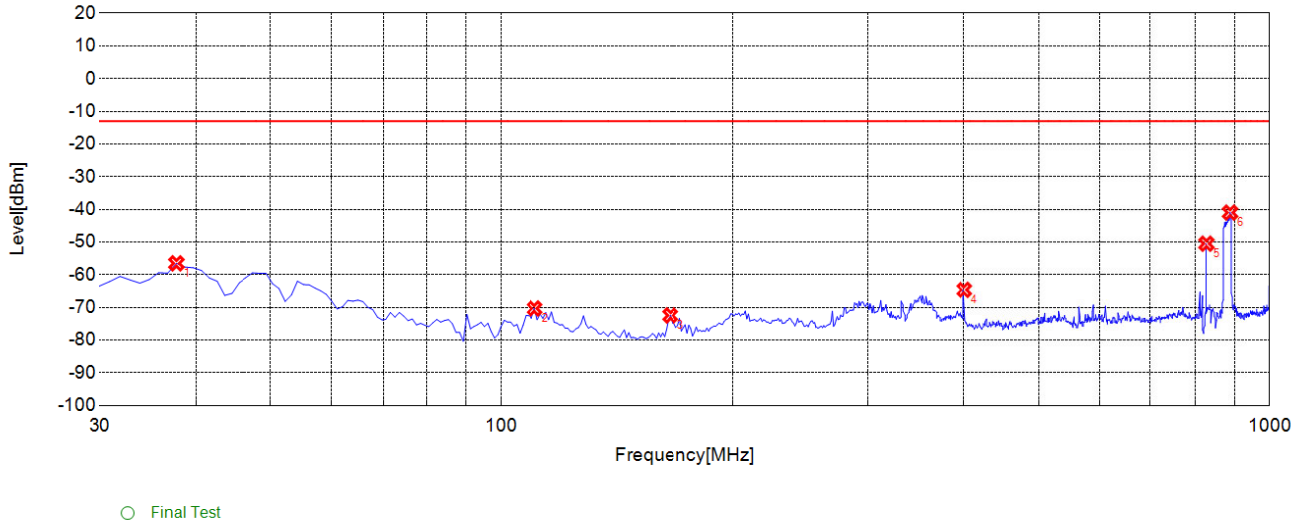
○ Final Test

Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	1328.3280	-52.91	-13.00	39.91	-8.92	-45.28	36.36	Vertical
2	1746.7470	-24.5	-13.00	11.50	-9.27	-46.27	37.00	NA
3	2153.1530	-34.19	-13.00	21.19	-8.43	-46.73	38.30	NA
4	3994.9950	-47.69	-13.00	34.69	-8.15	-47.33	39.18	Vertical
5	5312.3120	-46.37	-13.00	33.37	-3.28	-43.31	40.03	Vertical
6	6638.1380	-42.74	-13.00	29.74	4.15	-39.19	43.34	Vertical

DC_66A_N5 167300 20M DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 15KHz 1-18G V



Test Graph

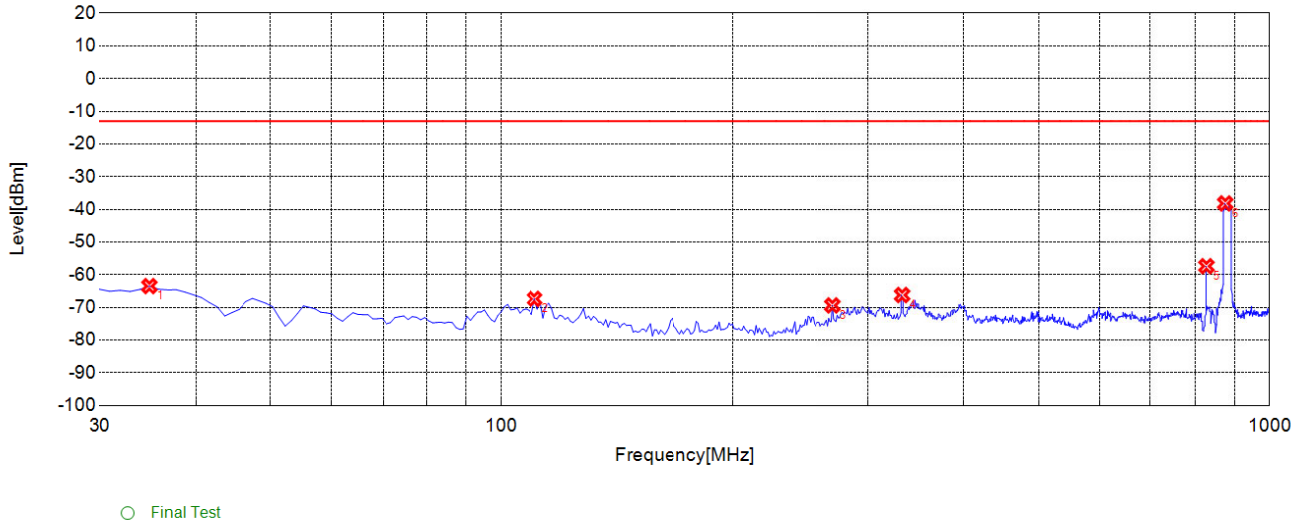


Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	37.7680	-56.53	-13.00	43.53	-8.07	-39.56	31.49	Horizontal
2	110.5910	-70.33	-13.00	57.33	-17.68	-38.68	21.00	Horizontal
3	165.9360	-72.46	-13.00	59.46	-18.94	-38.23	19.29	Horizontal
4	399.9400	-64.63	-13.00	51.63	-10.14	-36.26	26.12	Horizontal
5	827.1670	-50.52	-13.00	37.52	-2.90	-34.16	31.26	NA
6	887.3670	-41	-13.00	28.00	-2.05	-34.00	31.95	NA

DC_66A_N5 167300 20M DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 15KHz 30M-1G H



Test Graph

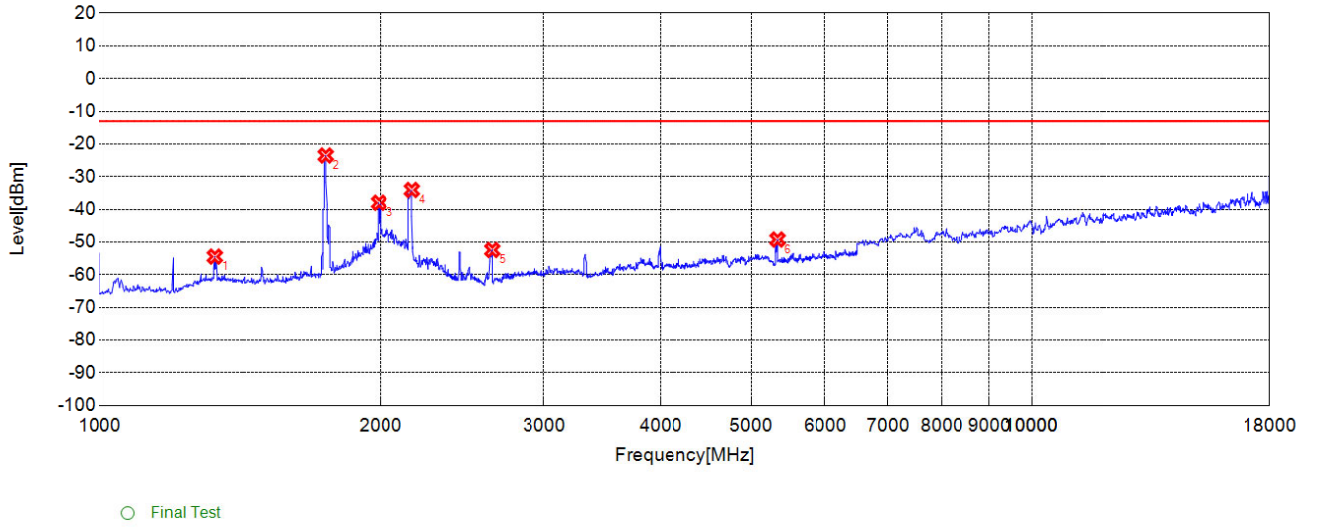


Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	34.8550	-63.49	-13.00	50.49	-16.68	-39.58	22.90	Vertical
2	110.5910	-67.39	-13.00	54.39	-16.08	-38.68	22.60	Vertical
3	269.8300	-69.4	-13.00	56.40	-13.17	-37.11	23.94	Vertical
4	331.9720	-66.22	-13.00	53.22	-10.92	-37.04	26.12	Vertical
5	827.1670	-57.4	-13.00	44.40	-2.67	-34.16	31.49	NA
6	874.7450	-38.19	-13.00	25.19	-1.94	-34.03	32.09	NA

DC_66A_N5 167300 20M DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 15KHz 30M-1G V



Test Graph

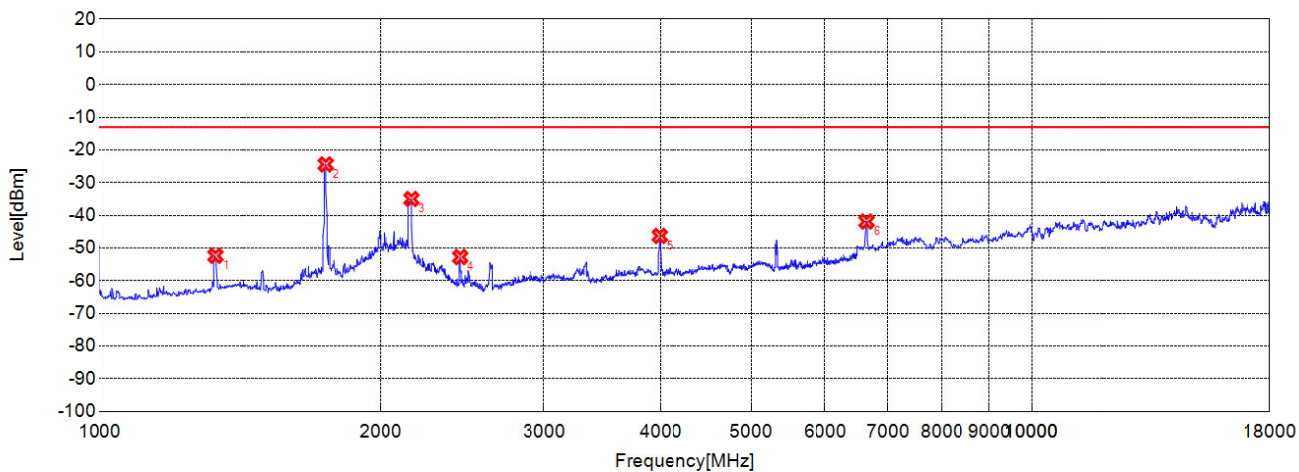


Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	1328.3280	-54.47	-13.00	41.47	-7.82	-45.28	37.46	Horizontal
2	1746.7470	-23.54	-13.00	10.54	-8.28	-46.27	37.99	NA
3	1990.9910	-37.98	-13.00	24.98	-4.39	-46.30	41.91	Horizontal
4	2163.1630	-34.08	-13.00	21.08	-7.78	-46.77	38.99	NA
5	2637.6380	-52.43	-13.00	39.43	-10.16	-47.23	37.07	Horizontal
6	5333.3330	-49.23	-13.00	36.23	-2.61	-43.15	40.54	Horizontal

DC_66A_N5 167800 20M DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 15KHz 1-18G H



Test Graph



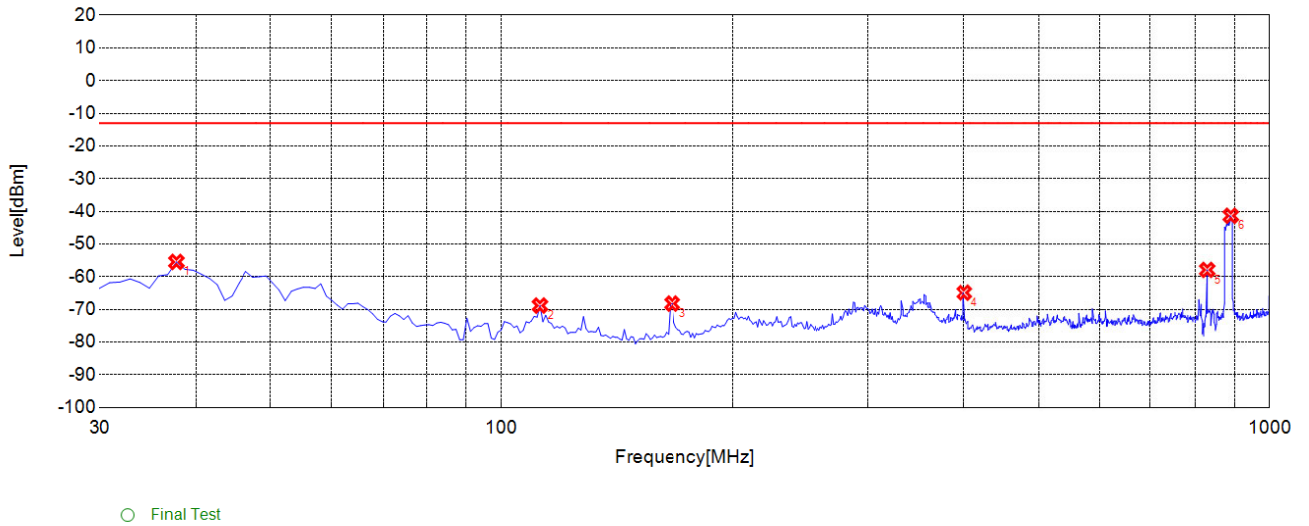
○ Final Test

Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	1330.3300	-52.38	-13.00	39.38	-8.89	-45.28	36.39	Vertical
2	1746.7470	-24.43	-13.00	11.43	-9.27	-46.27	37.00	NA
3	2161.1610	-35	-13.00	22.00	-8.25	-46.76	38.51	NA
4	2437.4370	-52.77	-13.00	39.77	-10.45	-47.37	36.92	Vertical
5	3987.9880	-46.29	-13.00	33.29	-8.14	-47.33	39.19	Vertical
6	6649.6500	-41.89	-13.00	28.89	4.03	-39.22	43.25	Vertical

DC_66A_N5 167800 20M DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 15KHz 1-18G V



Test Graph

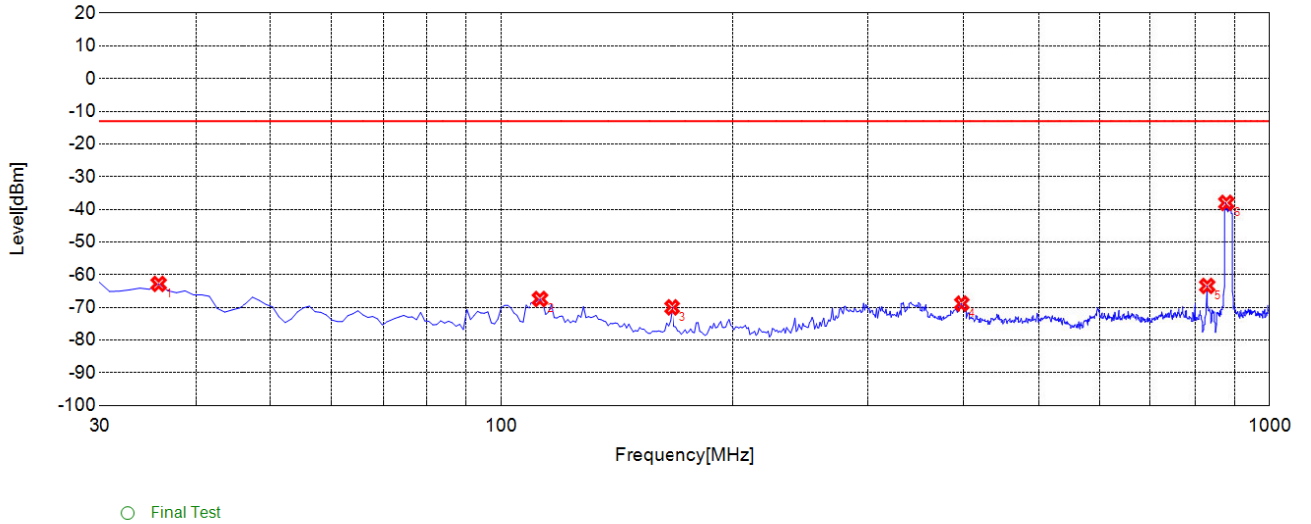


Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	37.7680	-55.48	-13.00	42.48	-8.07	-39.56	31.49	Horizontal
2	112.5330	-68.84	-13.00	55.84	-17.78	-38.67	20.89	Horizontal
3	166.9070	-68.22	-13.00	55.22	-18.82	-38.20	19.38	Horizontal
4	399.9400	-64.9	-13.00	51.90	-10.14	-36.26	26.12	Horizontal
5	829.1090	-57.92	-13.00	44.92	-2.82	-34.15	31.33	NA
6	889.3090	-41.36	-13.00	28.36	-2.03	-34.00	31.97	NA

DC_66A_N5 167800 20M DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 15KHz 30M-1G H



Test Graph

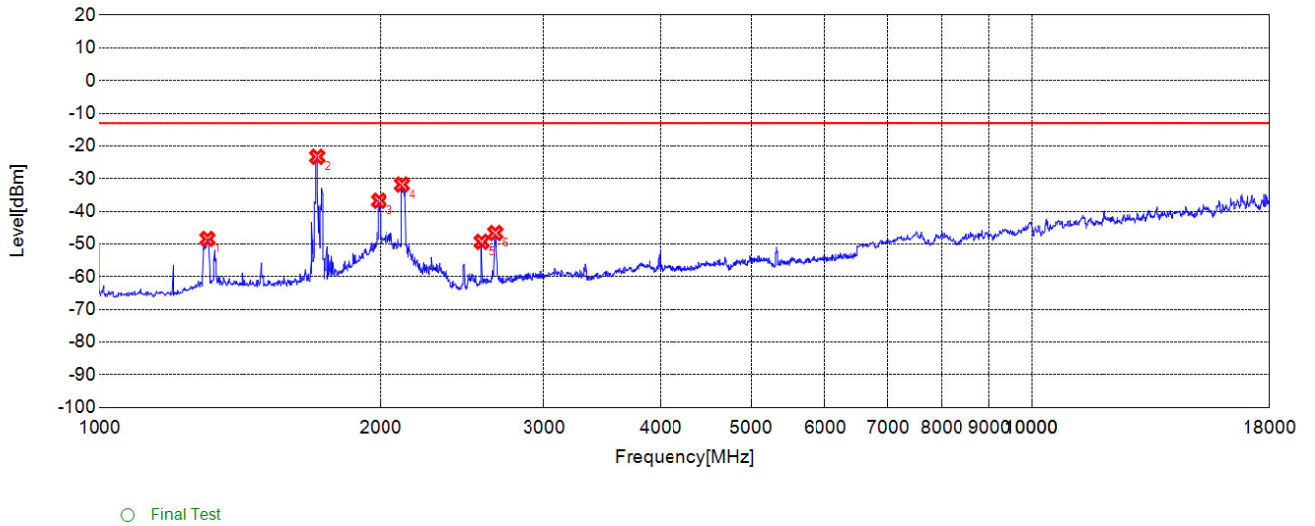


Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	35.8260	-62.81	-13.00	49.81	-16.61	-39.57	22.96	Vertical
2	112.5330	-67.44	-13.00	54.44	-15.91	-38.67	22.76	Vertical
3	166.9070	-70	-13.00	57.00	-17.08	-38.20	21.12	Vertical
4	397.0270	-68.85	-13.00	55.85	-9.66	-36.31	26.65	Vertical
5	829.1090	-63.43	-13.00	50.43	-2.57	-34.15	31.58	Vertical
6	877.6580	-38.03	-13.00	25.03	-1.73	-34.02	32.29	NA

DC_66A_N5 167800 20M DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 15KHz 30M-1G V



Test Graph

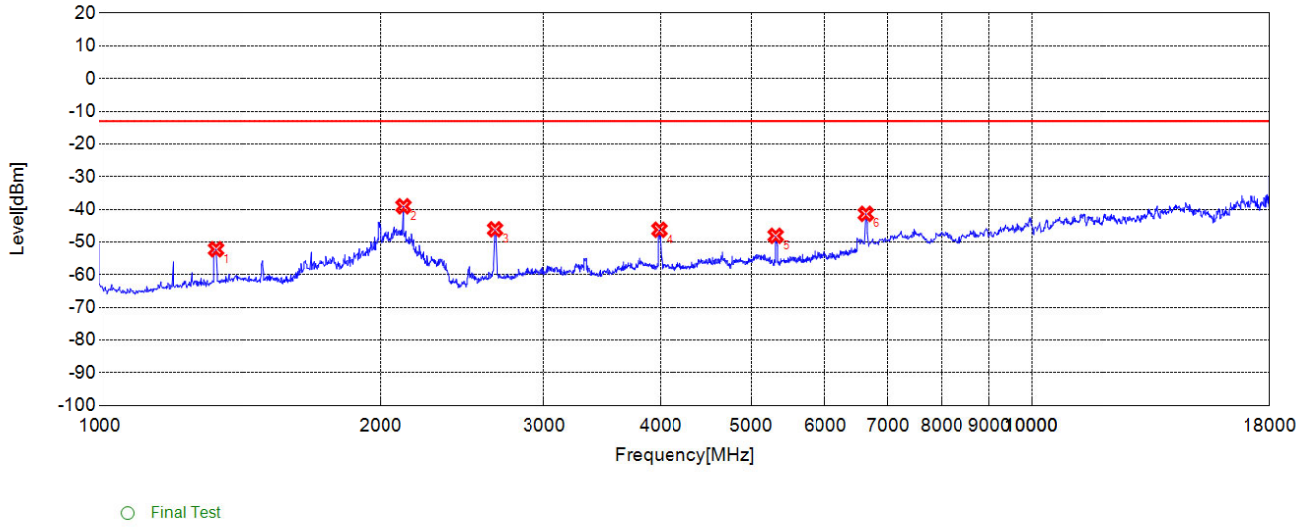


Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	1304.3040	-48.44	-13.00	35.44	-7.63	-45.29	37.66	Horizontal
2	1710.7110	-23.31	-13.00	10.31	-8.41	-46.34	37.93	NA
3	1990.9910	-36.76	-13.00	23.76	-4.39	-46.30	41.91	Horizontal
4	2111.1110	-31.81	-13.00	18.81	-8.38	-47.20	38.82	NA
5	2569.5700	-49.33	-13.00	36.33	-10.52	-47.37	36.85	Horizontal
6	2657.6580	-46.64	-13.00	33.64	-10.17	-47.31	37.14	Horizontal

DC_13A_N66 344000 20M DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 15KHz 1-18G H



Test Graph

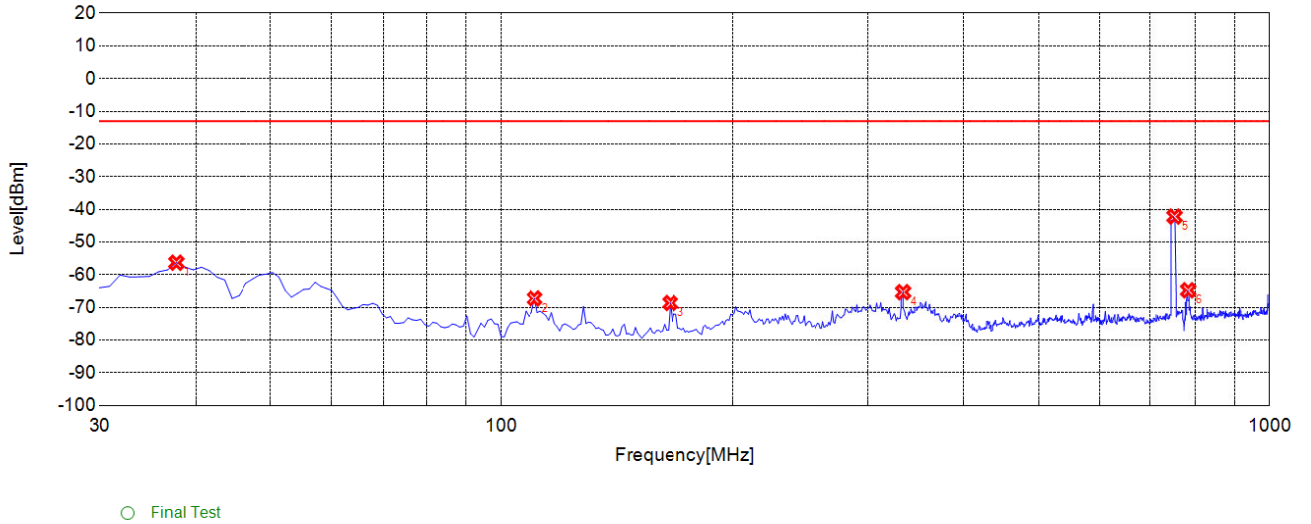


Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	1332.3320	-52.22	-13.00	39.22	-8.86	-45.28	36.42	Vertical
2	2119.1190	-39.08	-13.00	26.08	-9.69	-47.10	37.41	NA
3	2655.6560	-46.12	-13.00	33.12	-10.38	-47.31	36.93	Vertical
4	3984.4840	-46.26	-13.00	33.26	-8.13	-47.33	39.20	Vertical
5	5308.8090	-48.11	-13.00	35.11	-3.32	-43.33	40.01	Vertical
6	6638.1380	-41.39	-13.00	28.39	4.15	-39.19	43.34	Vertical

DC_13A_N66 344000 20M DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 15KHz 1-18G V



Test Graph

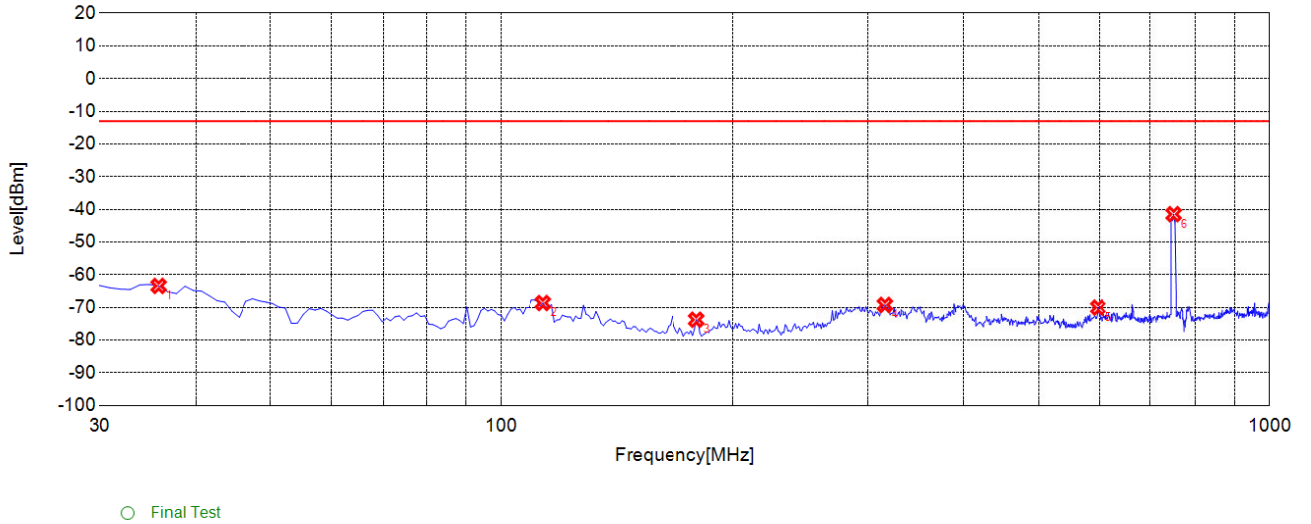


Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	37.7680	-56.33	-13.00	43.33	-8.07	-39.56	31.49	Horizontal
2	110.5910	-67.27	-13.00	54.27	-17.68	-38.68	21.00	Horizontal
3	165.9360	-68.66	-13.00	55.66	-18.94	-38.23	19.29	Horizontal
4	332.9430	-65.34	-13.00	52.34	-12.09	-37.03	24.94	Horizontal
5	752.4020	-42.22	-13.00	29.22	-2.88	-34.20	31.32	NA
6	783.4730	-64.77	-13.00	51.77	-3.20	-34.23	31.03	NA

DC_13A_N66 344000 20M DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 15KHz 30M-1G H



Test Graph

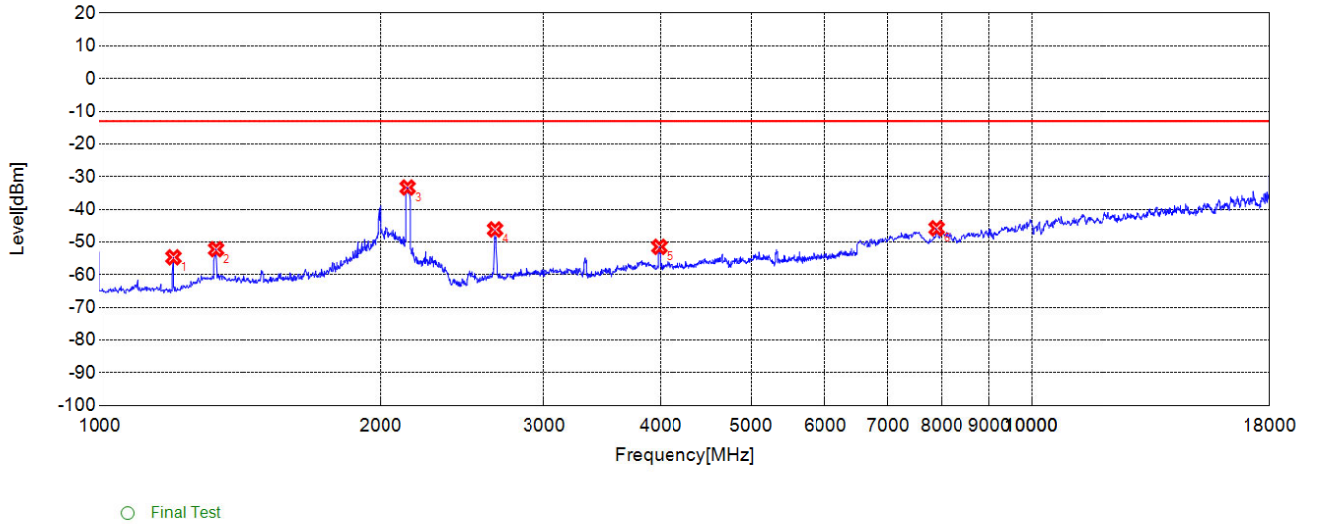


Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	35.8260	-63.44	-13.00	50.44	-16.61	-39.57	22.96	Vertical
2	113.5040	-68.66	-13.00	55.66	-15.82	-38.66	22.84	Vertical
3	179.5300	-73.77	-13.00	60.77	-16.67	-38.11	21.44	Vertical
4	315.4650	-69.25	-13.00	56.25	-11.66	-36.98	25.32	Vertical
5	598.0180	-70.05	-13.00	57.05	-5.37	-34.93	29.56	Vertical
6	750.4600	-41.48	-13.00	28.48	-2.61	-34.20	31.59	NA

DC_13A_N66 344000 20M DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 15KHz 30M-1G V



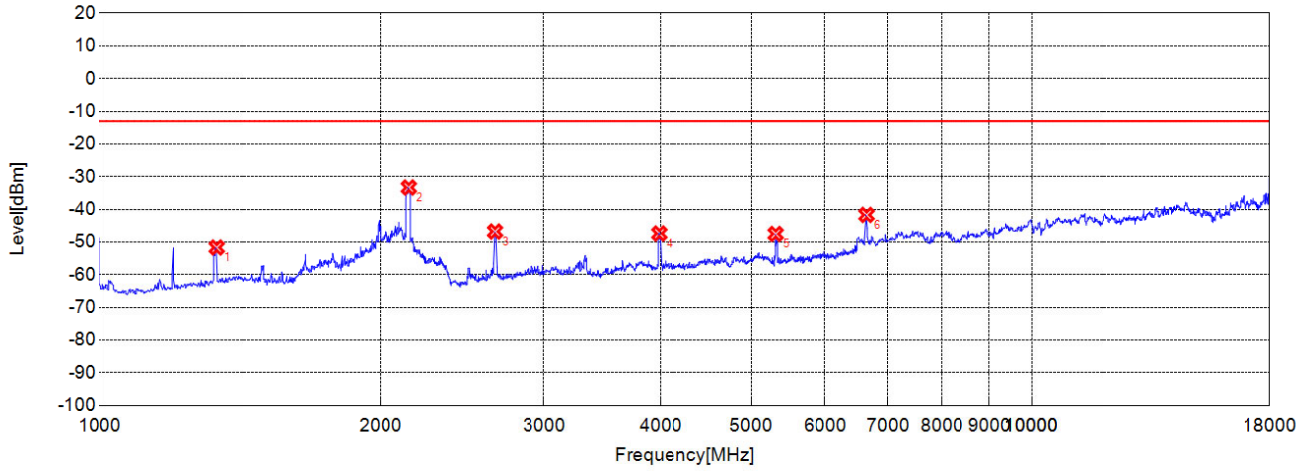
Test Graph



Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	1200.2000	-54.68	-13.00	41.68	-11.40	-45.85	34.45	Horizontal
2	1332.3320	-52.21	-13.00	39.21	-7.85	-45.28	37.43	Horizontal
3	2141.1410	-33.32	-13.00	20.32	-7.91	-46.83	38.92	NA
4	2655.6560	-46.17	-13.00	33.17	-10.18	-47.31	37.13	Horizontal
5	3984.4840	-51.49	-13.00	38.49	-7.69	-47.33	39.64	Horizontal
6	7892.8930	-45.81	-13.00	32.81	10.51	-34.93	45.44	Horizontal

DC_13A_N66 349000 20M DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 15KHz 1-18G H

Test Graph



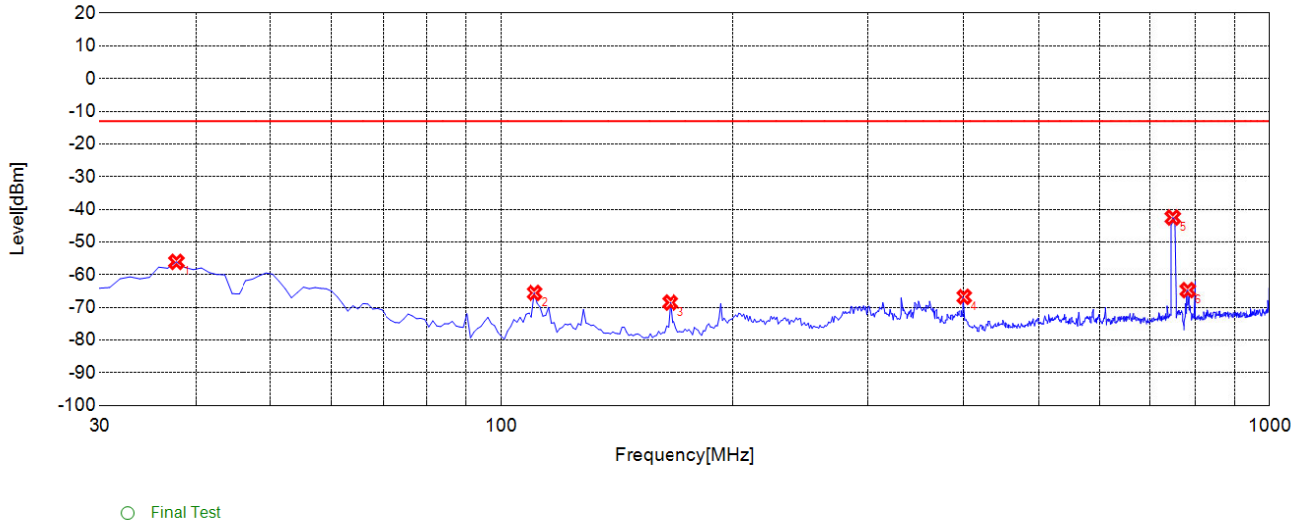
○ Final Test

Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	1334.3340	-51.68	-13.00	38.68	-8.84	-45.28	36.44	Vertical
2	2147.1470	-33.32	-13.00	20.32	-8.62	-46.76	38.14	NA
3	2655.6560	-46.8	-13.00	33.80	-10.38	-47.31	36.93	Vertical
4	3984.4840	-47.4	-13.00	34.40	-8.13	-47.33	39.20	Vertical
5	5308.8090	-47.54	-13.00	34.54	-3.32	-43.33	40.01	Vertical
6	6649.6500	-41.71	-13.00	28.71	4.03	-39.22	43.25	Vertical

DC_13A_N66 349000 20M DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 15KHz 1-18G V



Test Graph

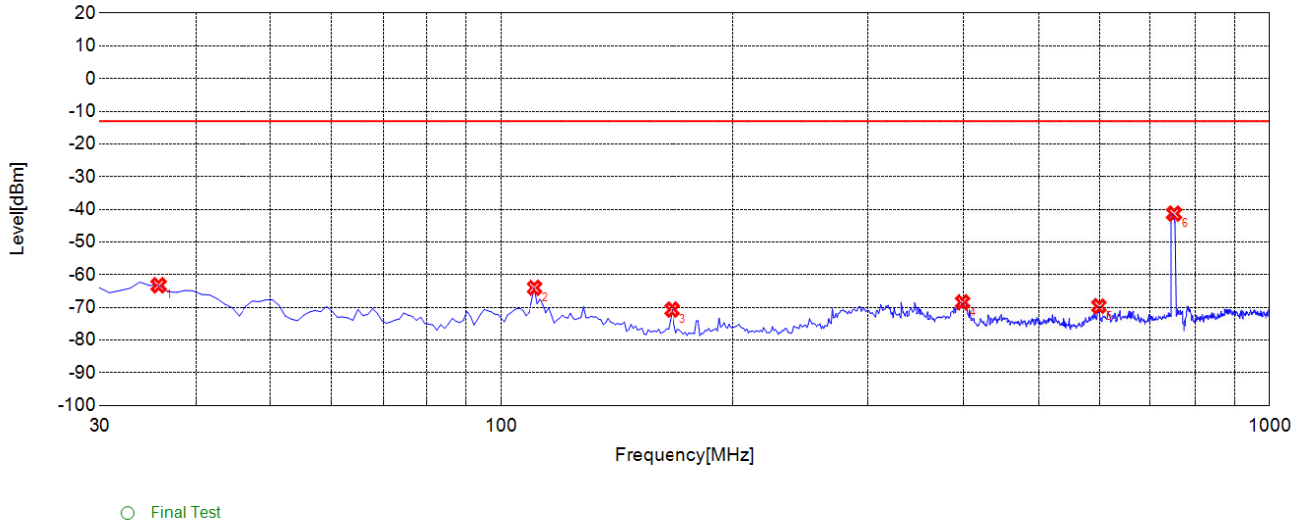


Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	37.7680	-56.08	-13.00	43.08	-8.07	-39.56	31.49	Horizontal
2	110.5910	-65.58	-13.00	52.58	-17.68	-38.68	21.00	Horizontal
3	165.9360	-68.52	-13.00	55.52	-18.94	-38.23	19.29	Horizontal
4	399.9400	-66.77	-13.00	53.77	-10.14	-36.26	26.12	Horizontal
5	748.5190	-42.51	-13.00	29.51	-3.05	-34.21	31.16	NA
6	782.5030	-64.73	-13.00	51.73	-3.20	-34.23	31.03	NA

DC_13A_N66 349000 20M DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 15KHz 30M-1G H



Test Graph

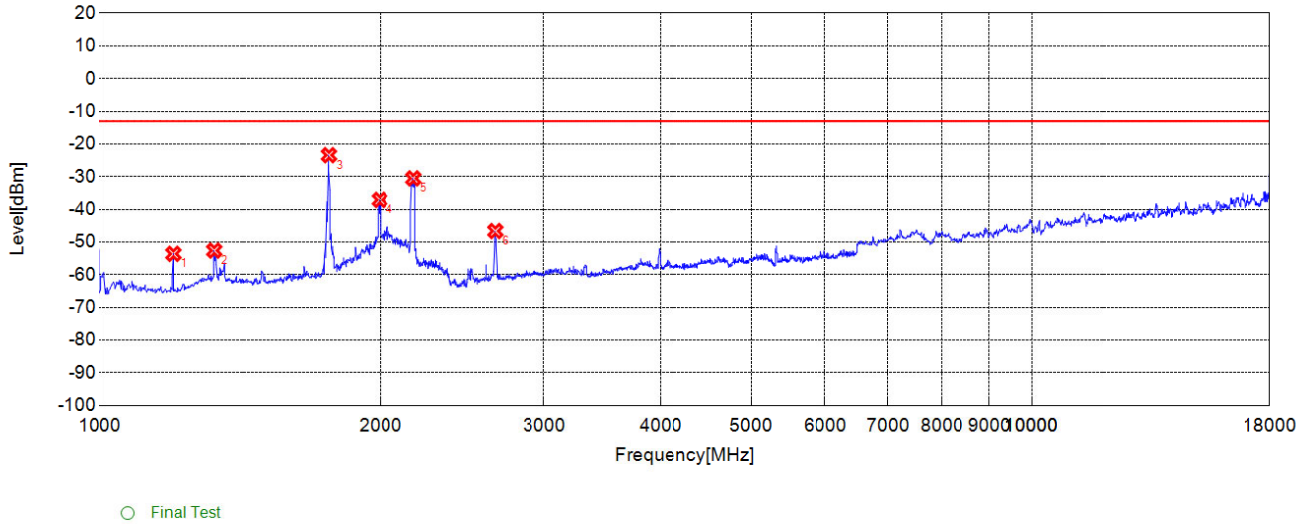


Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	35.8260	-63.25	-13.00	50.25	-16.61	-39.57	22.96	Vertical
2	110.5910	-64	-13.00	51.00	-16.08	-38.68	22.60	Vertical
3	166.9070	-70.68	-13.00	57.68	-17.08	-38.20	21.12	Vertical
4	397.9980	-68.43	-13.00	55.43	-9.58	-36.29	26.71	Vertical
5	599.9600	-69.65	-13.00	56.65	-5.37	-34.94	29.57	Vertical
6	751.4310	-41.31	-13.00	28.31	-2.58	-34.20	31.62	NA

DC_13A_N66 349000 20M DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 15KHz 30M-1G V



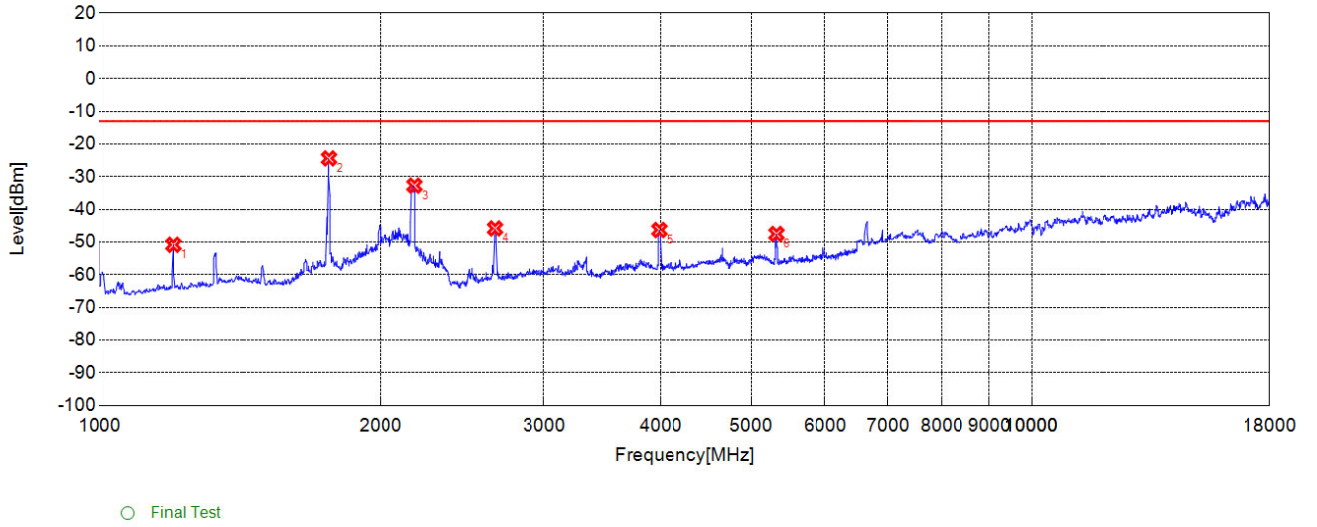
Test Graph



Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	1200.2000	-53.62	-13.00	40.62	-11.40	-45.85	34.45	Horizontal
2	1326.3260	-52.61	-13.00	39.61	-7.80	-45.28	37.48	Horizontal
3	1760.7610	-23.43	-13.00	10.43	-8.27	-46.28	38.01	NA
4	1994.9950	-37.11	-13.00	24.11	-4.32	-46.29	41.97	Horizontal
5	2171.1710	-30.54	-13.00	17.54	-7.79	-46.80	39.01	NA
6	2657.6580	-46.64	-13.00	33.64	-10.17	-47.31	37.14	Horizontal

DC_13A_N66 354000 20M DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 15KHz 1-18G H

Test Graph

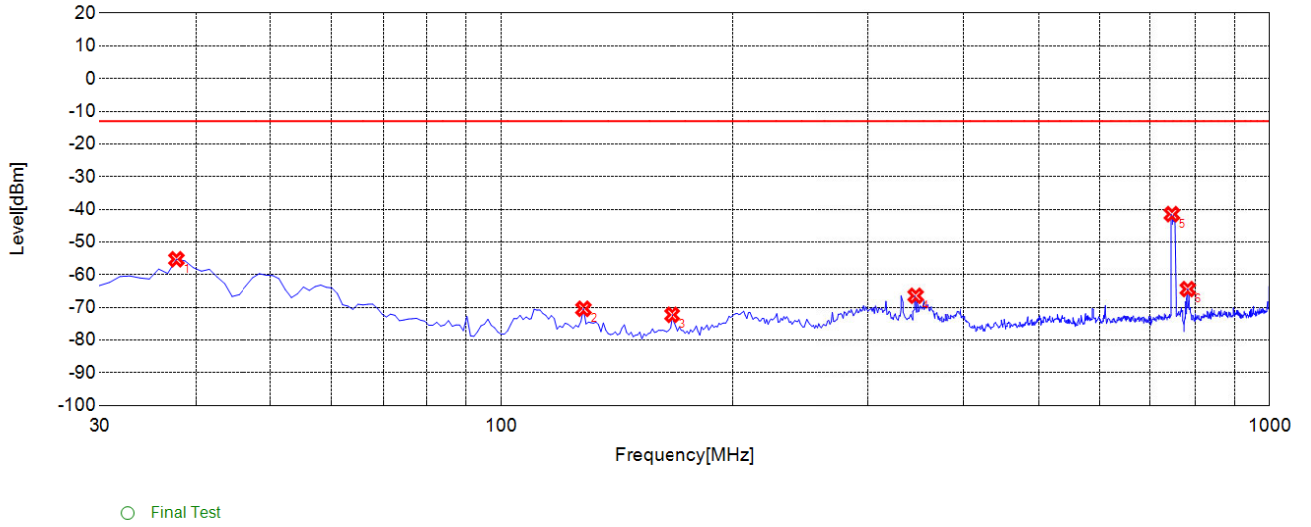


Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	1200.2000	-50.84	-13.00	37.84	-10.72	-45.85	35.13	Vertical
2	1760.7610	-24.42	-13.00	11.42	-9.26	-46.28	37.02	NA
3	2177.1770	-32.75	-13.00	19.75	-7.90	-46.82	38.92	NA
4	2655.6560	-45.85	-13.00	32.85	-10.38	-47.31	36.93	Vertical
5	3984.4840	-46.33	-13.00	33.33	-8.13	-47.33	39.20	Vertical
6	5319.3190	-47.55	-13.00	34.55	-3.20	-43.26	40.06	Vertical

DC_13A_N66 354000 20M DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 15KHz 1-18G V



Test Graph

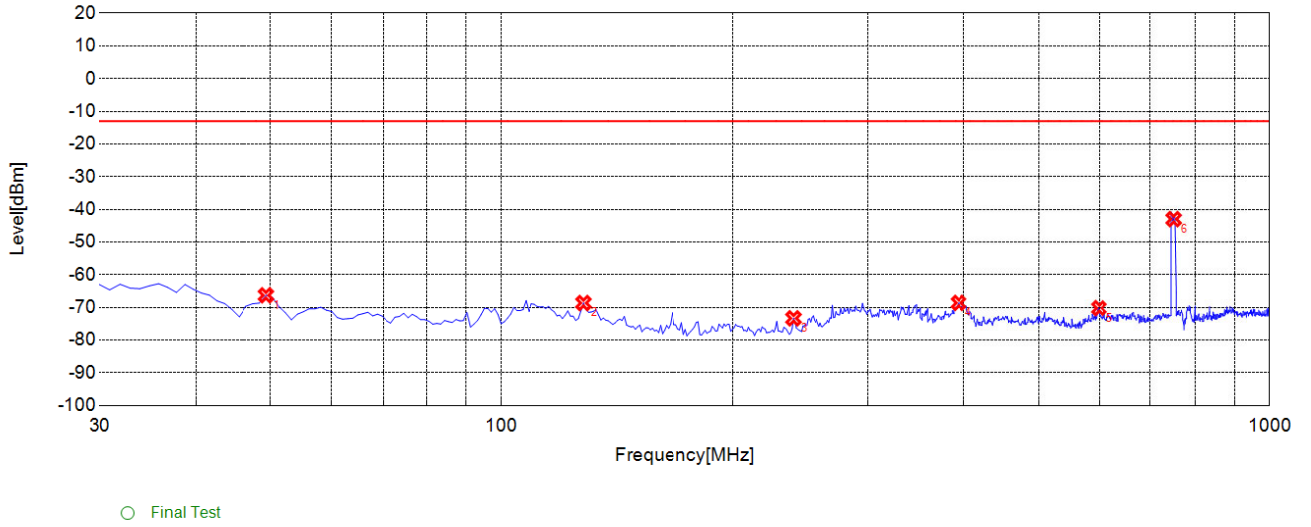


Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	37.7680	-55.28	-13.00	42.28	-8.07	-39.56	31.49	Horizontal
2	128.0680	-70.43	-13.00	57.43	-19.89	-38.52	18.63	Horizontal
3	166.9070	-72.27	-13.00	59.27	-18.82	-38.20	19.38	Horizontal
4	345.5660	-66.45	-13.00	53.45	-10.79	-37.00	26.21	Horizontal
5	746.5770	-41.47	-13.00	28.47	-3.09	-34.21	31.12	NA
6	782.5030	-64.4	-13.00	51.40	-3.20	-34.23	31.03	NA

DC_13A_N66 354000 20M DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 15KHz 30M-1G H



Test Graph

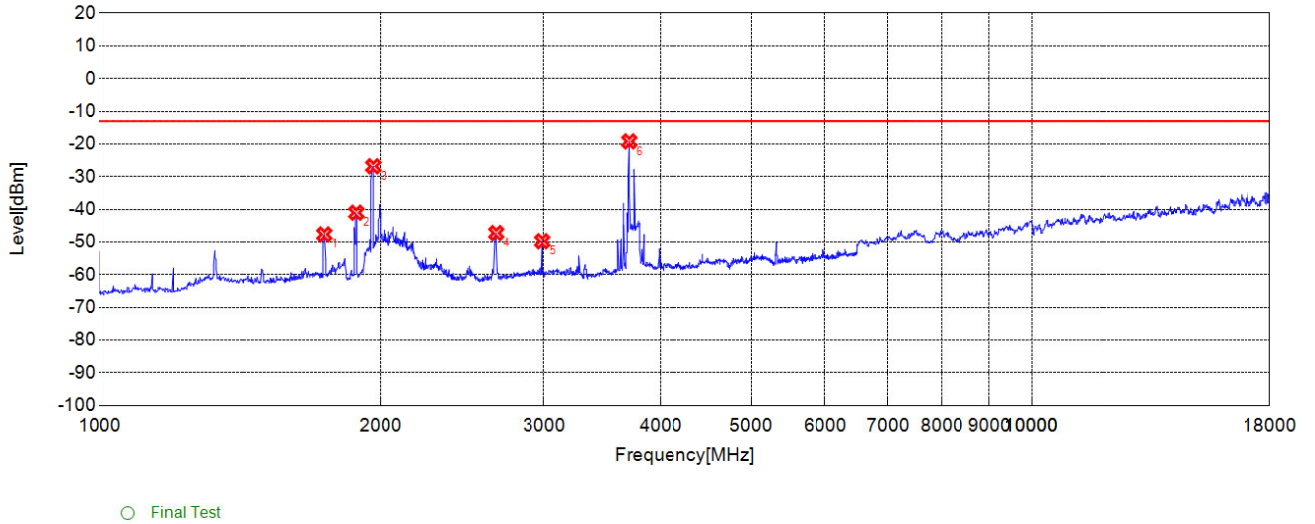


Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	49.4190	-66.3	-13.00	53.30	-15.27	-39.46	24.19	Vertical
2	128.0680	-68.67	-13.00	55.67	-16.58	-38.52	21.94	Vertical
3	239.7300	-73.34	-13.00	60.34	-15.11	-37.61	22.50	Vertical
4	393.1430	-68.62	-13.00	55.62	-9.97	-36.37	26.40	Vertical
5	599.9600	-70.22	-13.00	57.22	-5.37	-34.94	29.57	Vertical
6	750.4600	-42.99	-13.00	29.99	-2.61	-34.20	31.59	NA

DC_13A_N66 354000 20M DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 15KHz 30M-1G V



Test Graph

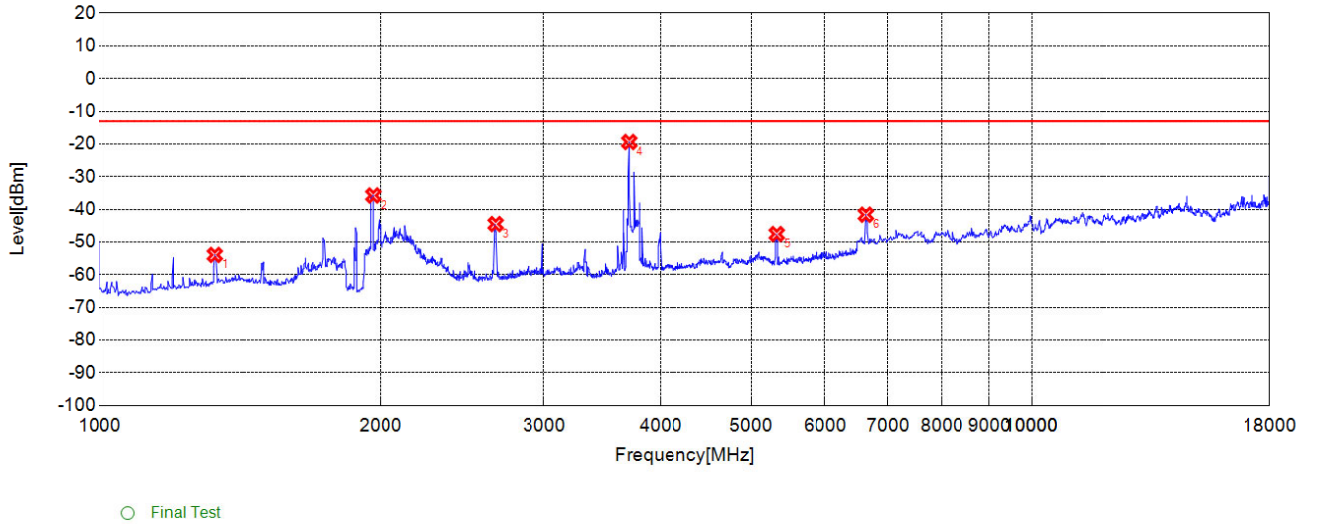


Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	1740.7410	-47.69	-13.00	34.69	-8.30	-46.28	37.98	Horizontal
2	1882.8830	-41.05	-13.00	28.05	-6.52	-46.71	40.19	Horizontal
3	1962.9630	-26.83	-13.00	13.83	-4.87	-46.39	41.52	NA
4	2663.6640	-47.28	-13.00	34.28	-10.17	-47.33	37.16	Horizontal
5	2989.9900	-49.77	-13.00	36.77	-9.07	-47.87	38.80	Horizontal
6	3700.7010	-19.22	-13.00	6.22	-7.48	-46.61	39.13	NA

DC_2A_n77 650000 100M DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 30KHz 1-18G H



Test Graph

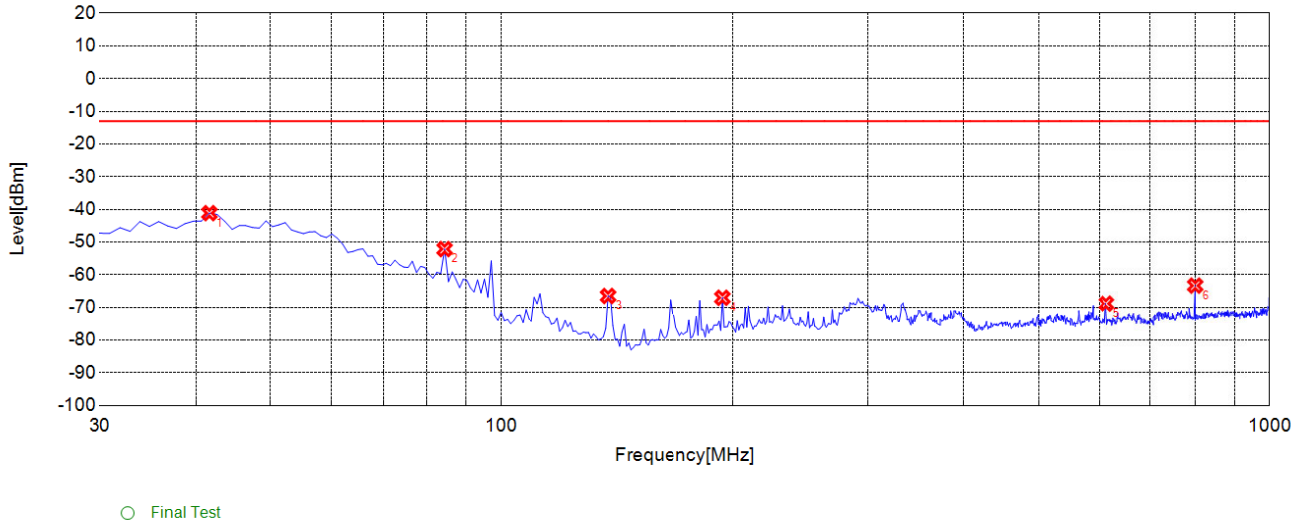


Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	1328.3280	-53.95	-13.00	40.95	-8.92	-45.28	36.36	Vertical
2	1962.9630	-35.76	-13.00	22.76	-10.41	-46.39	35.98	NA
3	2659.6600	-44.52	-13.00	31.52	-10.38	-47.32	36.94	Vertical
4	3700.7010	-19.4	-13.00	6.40	-7.54	-46.61	39.07	NA
5	5322.8230	-47.57	-13.00	34.57	-3.15	-43.23	40.08	Vertical
6	6638.1380	-41.65	-13.00	28.65	4.15	-39.19	43.34	Vertical

DC_2A_n77 650000 100M DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 30KHz 1-18G V



Test Graph

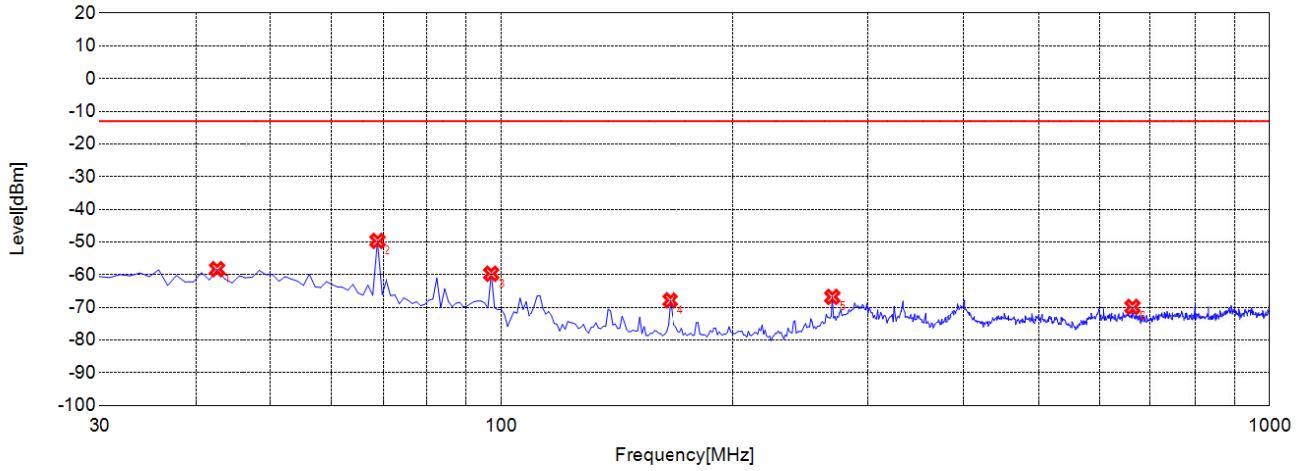


Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	41.6520	-41.17	-13.00	28.17	-7.05	-39.53	32.48	Horizontal
2	84.3740	-52.16	-13.00	39.16	-18.65	-38.94	20.29	Horizontal
3	137.7780	-66.53	-13.00	53.53	-20.78	-38.56	17.78	Horizontal
4	194.0940	-67.07	-13.00	54.07	-14.83	-37.99	23.16	Horizontal
5	613.5540	-68.86	-13.00	55.86	-5.86	-34.79	28.93	Horizontal
6	799.9800	-63.35	-13.00	50.35	-3.49	-34.24	30.75	Horizontal

DC_2A_n77 650000 100M DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 30KHz 30M-1G H



Test Graph

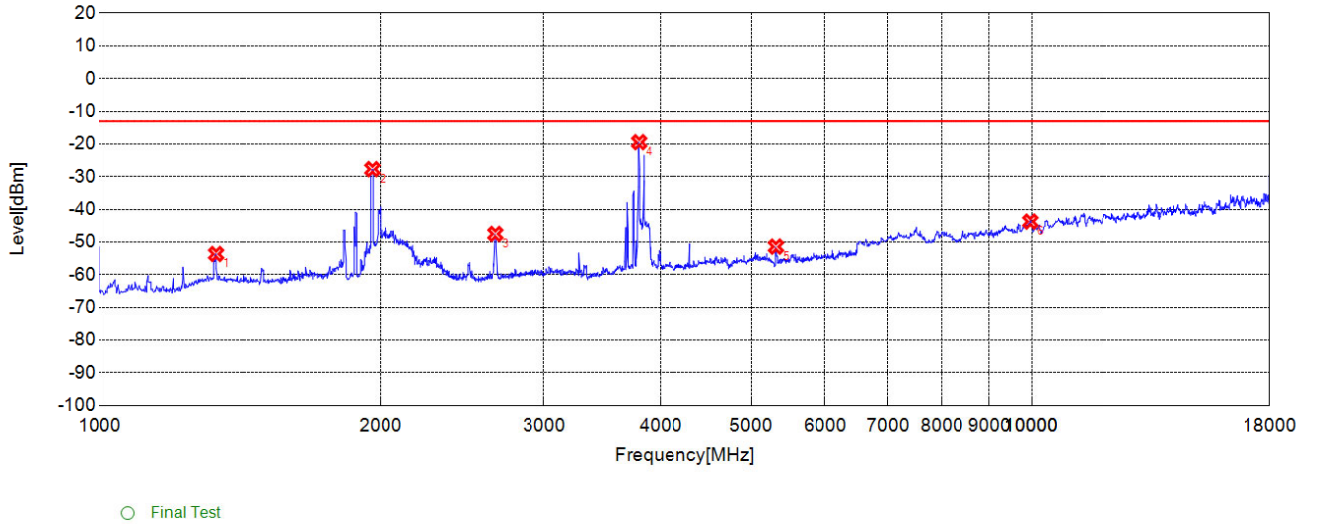


○ Final Test

Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	42.6230	-58.32	-13.00	45.32	-16.03	-39.52	23.49	Vertical
2	68.8390	-49.66	-13.00	36.66	-18.23	-39.51	21.28	Vertical
3	96.9970	-59.71	-13.00	46.71	-13.67	-38.70	25.03	Vertical
4	165.9360	-67.84	-13.00	54.84	-17.07	-38.23	21.16	Vertical
5	269.8300	-66.8	-13.00	53.80	-13.17	-37.11	23.94	Vertical
6	664.0440	-69.87	-13.00	56.87	-4.35	-34.39	30.04	Vertical

DC_2A_n77 650000 100M DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 30KHz 30M-1G V

Test Graph

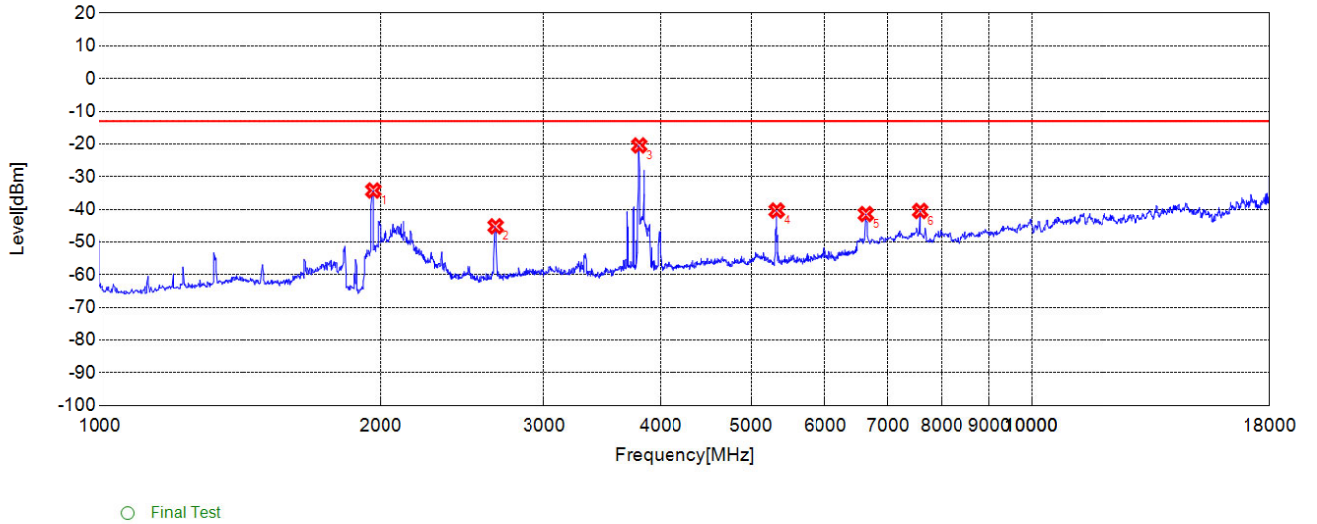


Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	1332.3320	-53.67	-13.00	40.67	-7.85	-45.28	37.43	Horizontal
2	1958.9590	-27.7	-13.00	14.70	-4.94	-46.40	41.46	NA
3	2657.6580	-47.53	-13.00	34.53	-10.17	-47.31	37.14	Horizontal
4	3791.7920	-19.45	-13.00	6.45	-6.78	-46.23	39.45	NA
5	5312.3120	-51.41	-13.00	38.41	-2.90	-43.31	40.41	Horizontal
6	9964.9650	-43.75	-13.00	30.75	13.67	-34.71	48.38	Horizontal

DC_2A_n77 656000 100M DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 30KHz 1-18G H



Test Graph

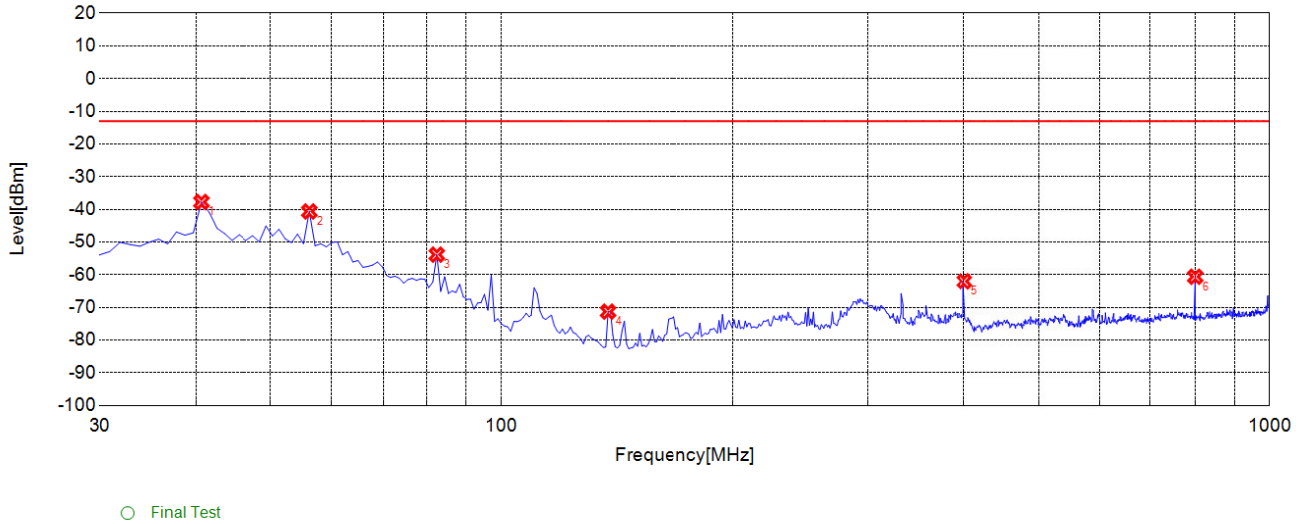


Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	1962.9630	-34.25	-13.00	21.25	-10.41	-46.39	35.98	NA
2	2659.6600	-45.2	-13.00	32.20	-10.38	-47.32	36.94	Vertical
3	3791.7920	-20.46	-13.00	7.46	-7.17	-46.23	39.06	NA
4	5322.8230	-40.39	-13.00	27.39	-3.15	-43.23	40.08	Vertical
5	6638.1380	-41.45	-13.00	28.45	4.15	-39.19	43.34	Vertical
6	7582.0820	-40.51	-13.00	27.51	9.73	-35.55	45.28	Vertical

DC_2A_n77 656000 100M DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 30KHz 1-18G V



Test Graph

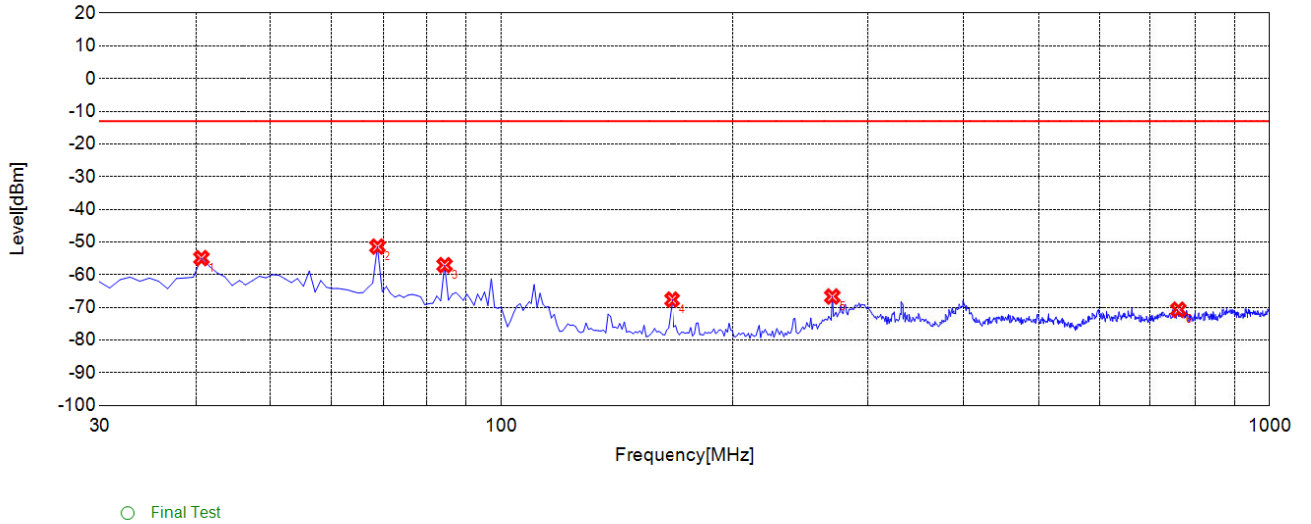


Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	40.6810	-37.76	-13.00	24.76	-7.05	-39.53	32.48	Horizontal
2	56.2160	-40.65	-13.00	27.65	-9.45	-39.48	30.03	Horizontal
3	82.4320	-53.86	-13.00	40.86	-18.54	-39.01	20.47	Horizontal
4	137.7780	-71.3	-13.00	58.30	-20.78	-38.56	17.78	Horizontal
5	399.9400	-62.03	-13.00	49.03	-10.14	-36.26	26.12	Horizontal
6	799.9800	-60.63	-13.00	47.63	-3.49	-34.24	30.75	Horizontal

DC_2A_n77 656000 100M DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 30KHz 30M-1G H



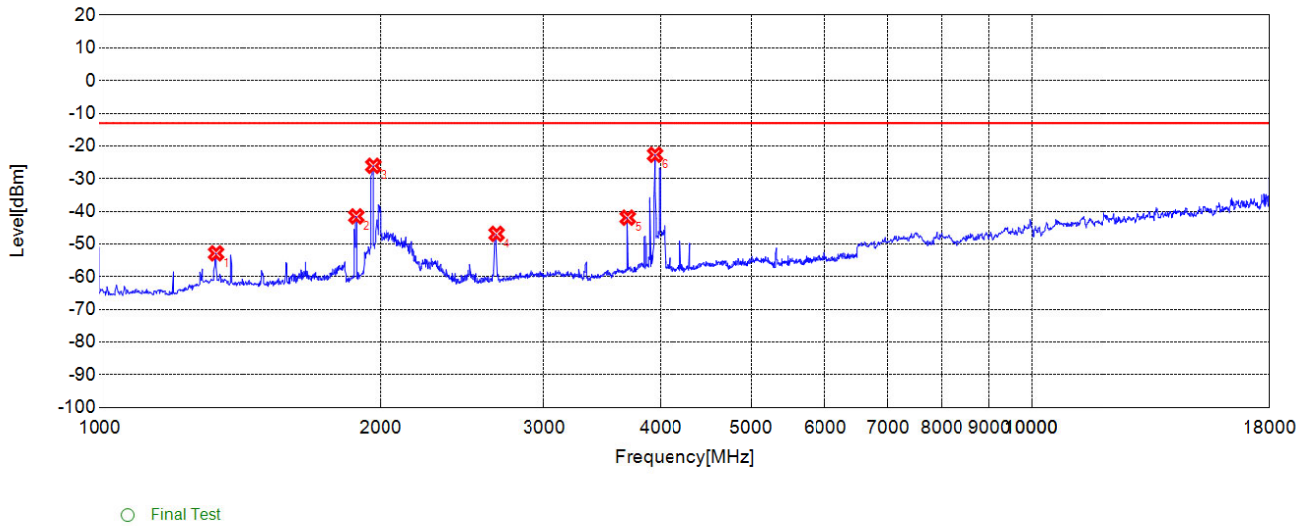
Test Graph



Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	40.6810	-54.93	-13.00	41.93	-16.24	-39.53	23.29	Vertical
2	68.8390	-51.4	-13.00	38.40	-18.23	-39.51	21.28	Vertical
3	84.3740	-57.08	-13.00	44.08	-18.69	-38.94	20.25	Vertical
4	166.9070	-67.63	-13.00	54.63	-17.08	-38.20	21.12	Vertical
5	269.8300	-66.68	-13.00	53.68	-13.17	-37.11	23.94	Vertical
6	761.1410	-70.71	-13.00	57.71	-2.34	-34.21	31.87	Vertical

DC_2A_n77 656000 100M DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 30KHz 30M-1G V

Test Graph

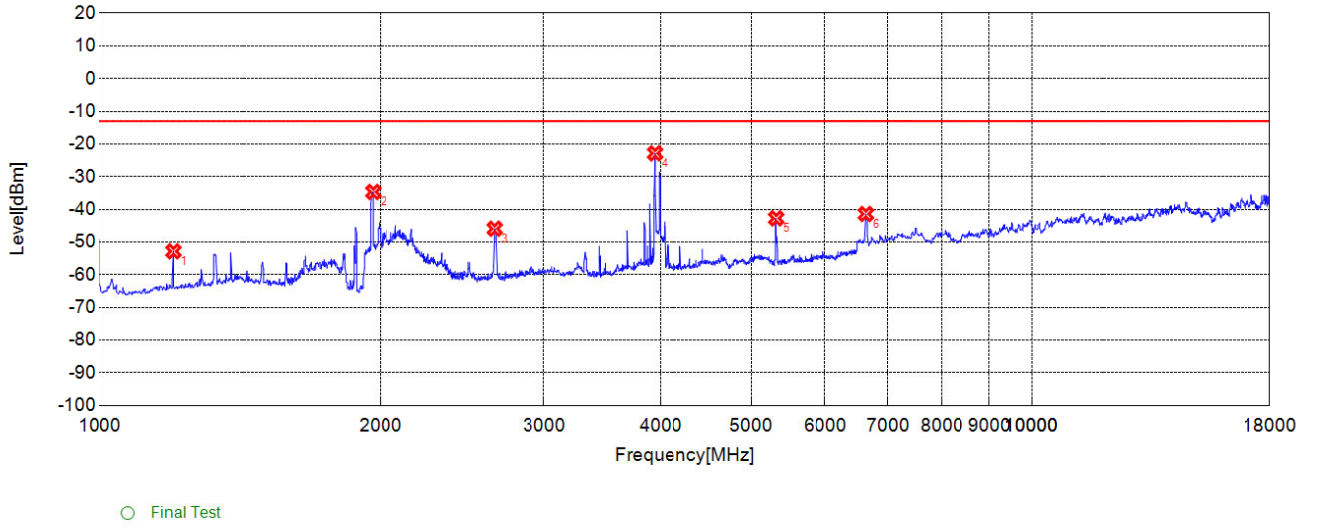


Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	1332.3320	-52.85	-13.00	39.85	-7.85	-45.28	37.43	Horizontal
2	1882.8830	-41.54	-13.00	28.54	-6.52	-46.71	40.19	Horizontal
3	1962.9630	-26.08	-13.00	13.08	-4.87	-46.39	41.52	NA
4	2665.6660	-46.9	-13.00	33.90	-10.17	-47.34	37.17	Horizontal
5	3686.6870	-41.95	-13.00	28.95	-7.64	-46.79	39.15	Horizontal
6	3942.4420	-22.68	-13.00	9.68	-7.52	-47.25	39.73	NA

DC_2A_n77 662000 100M DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 30KHz 1-18G H



Test Graph

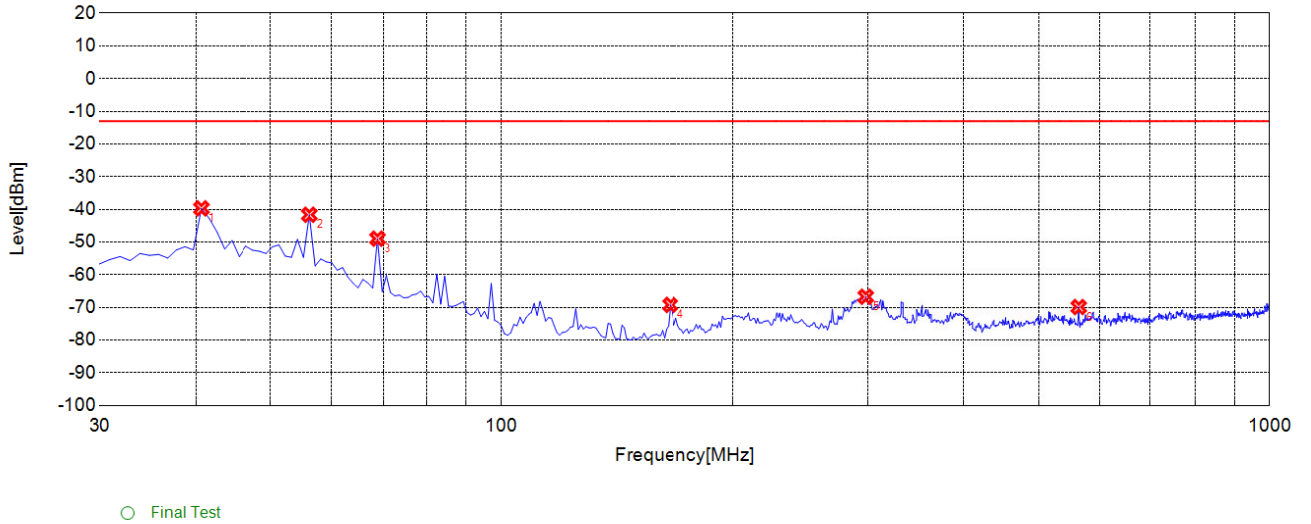


Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	1200.2000	-52.84	-13.00	39.84	-10.72	-45.85	35.13	Vertical
2	1962.9630	-34.69	-13.00	21.69	-10.41	-46.39	35.98	NA
3	2653.6540	-45.94	-13.00	32.94	-10.38	-47.30	36.92	Vertical
4	3942.4420	-22.87	-13.00	9.87	-7.97	-47.25	39.28	NA
5	5315.8160	-42.75	-13.00	29.75	-3.23	-43.28	40.05	Vertical
6	6638.1380	-41.43	-13.00	28.43	4.15	-39.19	43.34	Vertical

DC_2A_n77 662000 100M DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 30KHz 1-18G V



Test Graph

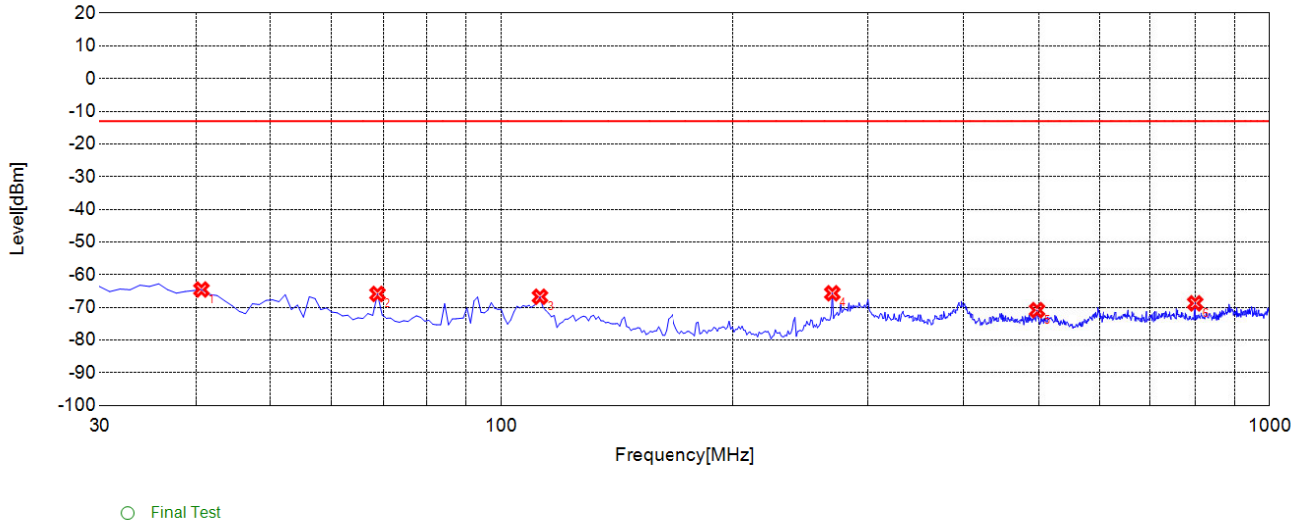


Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	40.6810	-39.71	-13.00	26.71	-7.05	-39.53	32.48	Horizontal
2	56.2160	-41.66	-13.00	28.66	-9.45	-39.48	30.03	Horizontal
3	68.8390	-48.97	-13.00	35.97	-15.36	-39.51	24.15	Horizontal
4	165.9360	-69.25	-13.00	56.25	-18.94	-38.23	19.29	Horizontal
5	297.9880	-66.74	-13.00	53.74	-12.04	-36.97	24.93	Horizontal
6	564.0340	-69.9	-13.00	56.90	-7.18	-34.84	27.66	Horizontal

DC_2A_n77 662000 100M DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 30KHz 30M-1G H



Test Graph



Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	40.6810	-64.54	-13.00	51.54	-16.24	-39.53	23.29	Vertical
2	68.8390	-65.89	-13.00	52.89	-18.23	-39.51	21.28	Vertical
3	112.5330	-66.75	-13.00	53.75	-15.91	-38.67	22.76	Vertical
4	269.8300	-65.68	-13.00	52.68	-13.17	-37.11	23.94	Vertical
5	498.0080	-70.85	-13.00	57.85	-8.24	-35.25	27.01	Vertical
6	799.9800	-68.76	-13.00	55.76	-3.62	-34.24	30.62	Vertical

DC_2A_n77 662000 100M DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 30KHz 30M-1G V



Annex A Test Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for test performed on the EUT as specified in CISPR 16-1-2:

Test items	Uncertainty
Output Power	± 2.22 dB
Bandwidth	$\pm 5\%$
Conducted Spurious Emission	± 2.77 dB
Band Edge	± 2.77 dB
Equivalent Isotropic Radiated Power	± 2.22 dB
Radiated Spurious Emissions	± 6 dB

When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% confidence intervals.



Annex B Testing Laboratory Information

1. Identification of the Responsible Testing Laboratory

Company Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
Telephone:	+86 755 36698555
Facsimile:	+86 755 36698525

2. Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China

3. Facilities and Accreditations

All measurement facilities used to collect the measurement data are located at FL.3, Building A, FeiYang Science Park, Block 67, BaoAn District, Shenzhen, 518101 P. R. China. The test site is constructed in conformance with the requirements of ANSI C63.10-2013 and CISPR Publication 22; the FCC designation number is CN1192, the test firm registration number is 226174.



4. Test Equipments Utilized

4.1 Conducted Test Equipments

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Cal. Due
Power Splitter	NW521	1506A	Weinschel	N/A	N/A
Attenuator 1	(N/A.)	10dB	Resnet	N/A	N/A
Attenuator 2	(N/A.)	3dB	Resnet	N/A	N/A
EXA Signal Analyzer	MY54170556	N9030A	Keysight	2021.01.08	2022.01.07
USB Power Sensor	MY54210011	U2021XA	Agilent	2020.10.23	2021.10.22
System Simulator	6261830572	MT8821C	Anritsu	2021.02.25	2022.02.24
System Simulator	6262012906	MT8000A	Anritsu	2020.10.28	2021.10.27
RF cable (30MHz-26GHz)	CB01	RF01	Morlab	N/A	N/A
Coaxial cable	CB02	RF02	Morlab	N/A	N/A
SMA connector	CN01	RF03	HUBER-SUHNER	N/A	N/A
Temperature Chamber	2017111210 2	HZ-2019	Dongguan Lixian Instrument Technology Co., Ltd	2020.10.26	2021.10.25
Computer	T430i	Think Pad	Lenovo	N/A	N/A
Test system	N/A	WCS FCC V1.0	CeSheng	N/A	N/A

**4.2 Radiated Test Equipments**

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Cal. Due
System Simulator	6262012906	MT8000A	Anritsu	2021.09.17	2022.09.16
System Simulator	152038	CMW500	R&S	2020.11.19	2021.11.18
System Simulator	MY48364176	8960-E5515 C	Agilent	2021.03.25	2022.03.24
System Simulator	6200995016	MT8820C	Agilent	2020.10.28	2021.10.27
Receiver	MY54130016	N9038A	Agilent	2021.07.16	2022.07.15
Receiver	MY56400093	N9038A	Keysight	2021.03.09	2022.03.08
Receiver	595WX11007	PMM 9010	PMM	2021.04.02	2022.04.01
Receiver	001WX1100	PMM 9060	PMM	2021.03.30	2022.03.29
Signal Analyzer	MY56060145	N9020A	Agilent	2021.07.26	2022.07.25
6db Attenuator	E191001	BW-N6W5+	Mini-circuits	2021.10.18	2022.10.17
Preamplifier	61171/61172	S020180L32 03	LUCIX CORP.	2021.07.15	2022.07.14
Preamplifier	46732	S10M100L38 02	LUCIX CORP.	2021.07.15	2022.07.14
Test Antenna – Loop	1519-022	FMZB 1519	Schwarzbeck	2019.02.15	2022.02.14
Test Antenna - Bi-Log	9163-274	VULB 9163	Schwarzbeck	2019.11.23	2022.11.22
Test Antenna - Bi-Log	9163-519	VULB 9163	Schwarzbeck	2019.05.24	2022.05.23
Test Antenna - Horn	9120D-963	BBHA 9120D	Schwarzbeck	2019.05.24	2022.05.23
Test Antenna - Horn	01774	BBHA 9120D	Schwarzbeck	2019.07.26	2022.07.25
Test Antenna - Horn	BBHA9170#7 73	BBHA9170	Schwarzbeck	2019.07.26	2022.07.25

————— END OF REPORT —————