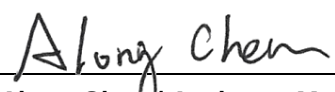


FCC Test Report

FCC ID : MXF-WLTGG12243
Equipment : LTE B43 Cat12 TD-LTE CPE
Model No. : WLTGG-122
Brand Name : Gemtek
Applicant : Gemtek Technology Co., Ltd.
Address : No.15-1 Zhonghua Rd, Hsinchu Industrial
Park, Hukou, Hsinchu, Taiwan, R.O.C
Standard : 47 CFR FCC Part 90 Subpart Z
Received Date : Jul. 12, 2018
Tested Date : Jul. 17 ~ Sep. 03, 2018

We, International Certification Corp., would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:


Along Chen / Assistant Manager

Approved by:

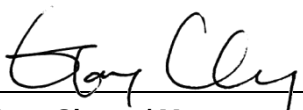

Gary Chang / Manager



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Release Record

Report No.	Version	Description	Issued Date
FL830601-01	Rev. 01	Initial issue	Nov. 16, 2018

Summary of Test Results

FCC Rules	Test Items	Measured	Result
2.1046 / 90.1321	Equivalent Isotropically Radiated Power	Maximum EIRP: CDD: 5.420 W CA: 3.917 W	Pass
2.1046 / 90.1321	Peak EIRP Power Density	Meet the requirement of limit	Pass
2.1053 / 90.1323	Radiated Emissions	Meet the requirement of limit	Pass
2.1051 / 90.1323	Conducted Emissions	Meet the requirement of limit	Pass
90.210	Emission Mask	Meet the requirement of limit	Pass
2.1049 / 90.1323	26dBc Bandwidth	Meet the requirement of limit	Pass
2.1055 / 90.213	Frequency Stability	Meet the requirement of limit	Pass

1 General Description

1.1 Information

1.1.1 Specification of the Equipment under Test (EUT)

Operating Frequency	Channel Bandwidth: 10MHz: 3655.0 MHz ~ 3695.0 MHz Channel Bandwidth: 20MHz: 3660.0 MHz ~ 3690.0 MHz
Modulation Type	QPSK, 16QAM, 64QAM (Uplink) QPSK, 16QAM, 64QAM, 256QAM (Downlink)
Duplex Mode	TDD
UE Category	Cat. 12
Release	12
H/W Version	MB: V01, RF: V00A
S/W Version	01.02.01.016
TX/RX function	2TX / 4RX

1.1.2 Antenna Details

Ant. No.	Type	Gain (dBi)	Connector
1	Patch	12	I-PEX

1.1.3 EUT Operational Condition

Power Supply Type	56Vdc from PoE		
Operational Climatic	☒ Tnom (20°C)	☒ Tmax (55°C)	☒ Tmin (-40°C)

1.1.4 Accessories

Accessories		
No.	Equipment	Description
1	PoE	Brand: FRECOM Model: PGOC24D01-560027 I/P: 100-240Vac, 50/60Hz, 0.7A O/P: 56Vdc, 0.27A Power Line: 0.65m non-shielded without core
2	RJ45 (E354598)	Brand: EKSON Model: P01-C001 1.45m non-shielded without core
3	RJ45 (E315882)	Brand: TUNG-LI Model: 5U422-20 1.45m non-shielded without core
4	Mounting KIT	---

1.1.5 Maximum EIRP & Emission Designator

CDD Mode			
Channel Bandwidth (MHz)	Modulation	Maximum EIRP (W)	Emission Designator
10	QPSK	5.383	8M95G7D
10	16QAM	4.325	8M95W7D
10	64QAM	3.428	8M96W7D
20	QPSK	5.420	17M9G7D
20	16QAM	4.285	17M8W7D
20	64QAM	3.451	17M8W7D

CA Mode			
Channel Bandwidth (MHz)	Modulation	Maximum EIRP (W)	Emission Designator
10+10	QPSK	3.698	18M8G7D
10+10	16QAM	3.228	18M8W7D
10+10	64QAM	3.141	18M8W7D
10+20	QPSK	3.784	27M7G7D
10+20	16QAM	3.013	27M7W7D
10+20	64QAM	3.027	27M7W7D
20+10	QPSK	3.882	27M6G7D
20+10	16QAM	3.097	27M7W7D
20+10	64QAM	3.048	27M8W7D
20+20	QPSK	3.917	37M5G7D
20+20	16QAM	3.055	37M5W7D
20+20	64QAM	3.083	37M5W7D

1.1.6 Operating Channel List

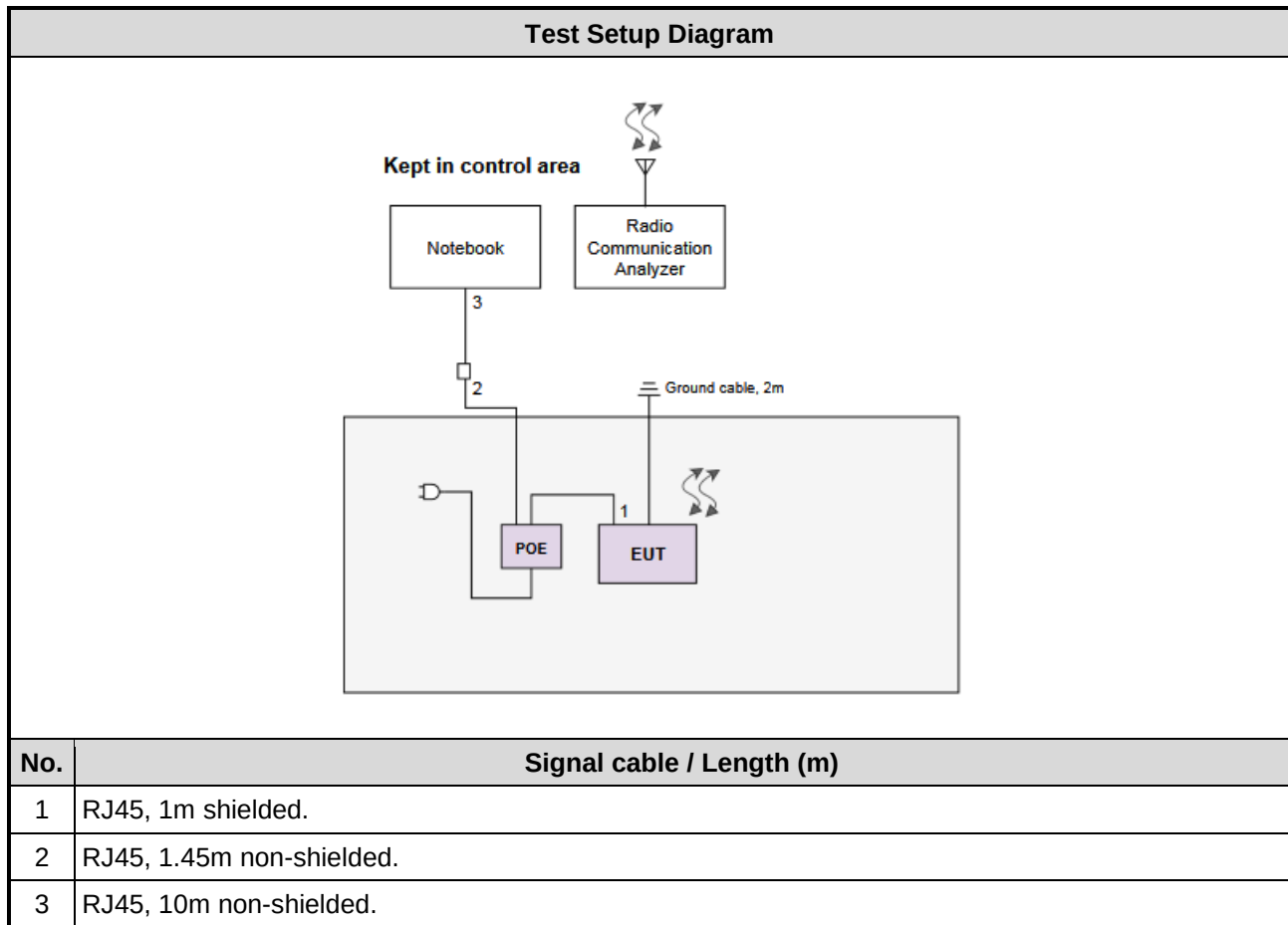
CDD Mode		
Channel Bandwidth (MHz)	Channel	Frequency (MHz)
10	44140	3655.0
10	44340	3675.0
10	44540	3695.0
20	44190	3660.0
20	44340	3675.0
20	44490	3690.0

CA Mode				
Channel Bandwidth (MHz)	PCC		SCC	
	Frequency (MHz)	Channel	Frequency (MHz)	Channel
10+10	3655.0	44140	3664.9	44239
10+10	3670.0	44290	3679.9	44389
10+10	3685.1	44441	3695.0	44540
10+20	3655.5	44145	3669.9	44289
10+20	3665.5	44245	3679.9	44389
10+20	3675.6	44346	3690.0	44490
20+10	3660.0	44190	3674.4	44334
20+10	3670.0	44290	3684.4	44434
20+10	3680.1	44391	3694.5	44535
20+20	3660.0	44190	3679.8	44388
20+20	3665.1	44241	3684.9	44439
20+20	3670.2	44292	3690.0	44490

1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	Notebook	DELL	Latitude E5470	DoC	---

1.3 Test Setup Chart



1.4 The Equipment List

Test Item	Radiated Emission				
Test Site	966 chamber1 / (03CH01-WS)				
Tested Date	Jul. 17, 2018				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Wideband Radio Communication Tester	R&S	CMW500	106070	Feb. 12, 2018	Feb. 11, 2019
Spectrum Analyzer	R&S	FSV40	101498	Dec. 04, 2017	Dec. 03, 2018
Receiver	R&S	ESR3	101658	Nov. 20, 2017	Nov. 19, 2018
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jul. 25, 2017	Jul. 24, 2018
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 20, 2017	Dec. 19, 2018
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 23, 2017	Nov. 22, 2018
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 13, 2017	Nov. 12, 2018
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Dec. 07, 2017	Dec. 06, 2018
Preamplifier	EMC	EMC02325	980225	Jul. 28, 2017	Jul. 27, 2018
Preamplifier	Agilent	83017A	MY39501308	Oct. 06, 2017	Oct. 05, 2018
Preamplifier	EMC	EMC184045B	980192	Aug. 22, 2017	Aug. 21, 2018
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16140/4	May 09, 2018	May 08, 2019
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Dec. 07, 2017	Dec. 06, 2018
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16139/4	Dec. 07, 2017	Dec. 06, 2018
LF cable 1M	EMC	EMCCFD400-NM-N M-1000	16052	Dec. 07, 2017	Dec. 06, 2018
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Dec. 07, 2017	Dec. 06, 2018
LF cable 10M	Woken	CFD400NL-LW	CFD400NL-002	Dec. 07, 2017	Dec. 06, 2018
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission				
Test Site	966 chamber1 / (03CH01-WS)				
Tested Date	Aug. 27, 2018				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Wideband Radio Communication Tester	R&S	CMW500	106070	Feb. 12, 2018	Feb. 11, 2019
Spectrum Analyzer	R&S	FSV40	101498	Dec. 04, 2017	Dec. 03, 2018
Receiver	R&S	ESR3	101658	Nov. 20, 2017	Nov. 19, 2018
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jul. 18, 2018	Jul. 17, 2019
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 20, 2017	Dec. 19, 2018
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 23, 2017	Nov. 22, 2018
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 13, 2017	Nov. 12, 2018
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Dec. 07, 2017	Dec. 06, 2018
Preamplifier	EMC	EMC02325	980225	Jul. 20, 2018	Jul. 19, 2019
Preamplifier	Agilent	83017A	MY39501308	Oct. 06, 2017	Oct. 05, 2018
Preamplifier	EMC	EMC184045B	980192	Aug. 09, 2018	Aug. 08, 2019
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16140/4	May 09, 2018	May 08, 2019
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Dec. 07, 2017	Dec. 06, 2018
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16139/4	Dec. 07, 2017	Dec. 06, 2018
LF cable 1M	EMC	EMCCFD400-NM-N M-1000	16052	Dec. 07, 2017	Dec. 06, 2018
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Dec. 07, 2017	Dec. 06, 2018
LF cable 10M	Woken	CFD400NL-LW	CFD400NL-002	Dec. 07, 2017	Dec. 06, 2018
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Tested Date	Aug. 10 ~ Sep. 03, 2018				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101063	Apr. 16, 2018	Apr. 15, 2019
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GCT-225-40-SP-SD	MAF1212-002	Nov. 27, 2017	Nov. 26, 2018
Power Meter	Anritsu	ML2495A	1241002	Oct. 16, 2017	Oct. 15, 2018
Power Sensor	Anritsu	MA2411B	1207366	Oct. 16, 2017	Oct. 15, 2018
Radio Communication Analyzer	Anritsu	MT8820C	6201240341	Apr. 08, 2018	Apr. 07, 2019
AC POWER SOURCE	APC	AFC-500W	F312060012	Dec. 01, 2017	Nov. 30, 2018
Measurement Software	Sporton	Sporton_1	1.3.30	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.5 Test Standards

According to the specification of EUT, the EUT must comply with following standards.

47 CFR FCC Part 90 Subpart Z

FCC KDB 965270 D01 PwrMeas Part 90 Z Equipment v01

ANSI C63.4-2014

ANSI C63.26-2015

FCC KDB 412172 D01 Determining ERP and EIRP v01r01

FCC KDB 442401 ERP/EIRP measurement procedures for licensed radio service devices

1.6 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor ($k=2$)).

Measurement Uncertainty	
Parameters	Uncertainty
Bandwidth	± 34.134 Hz
Conducted power	± 0.808 dB
Frequency error	± 34.134 Hz
Conducted emission	± 2.670 dB
Radiated emission ≤ 1 GHz	± 3.66 dB
Radiated emission > 1 GHz	± 5.63 dB
Temperature	± 0.6 °C

2 Test Configuration

2.1 Testing Condition and Location Information

Test Item	Test Site	Ambient Condition	Tested By
RF Conducted	TH01-WS	24°C / 66%	Aska Huang
Radiated Emissions	03CH01-WS	24-25°C / 61-62%	Roger Lu

- FCC Designation No.: TW2732
- FCC site registration No.: 181692
- IC site registration No.: 10807A-1

2.2 The Worst Test Modes and Channel Details

CDD Mode			
Test item	Channel Bandwidth	Modulation	Test channel (MHz)
Equivalent Isotropically Radiated Power	10 MHz 20 MHz	QPSK / 16QAM / 64QAM QPSK / 16QAM / 64QAM	3655.0 / 3675.0 / 3695.0 3660.0 / 3675.0 / 3690.0
Peak EIRP Power Density			
Radiated Emission ≤ 1GHz	10 MHz 20 MHz	QPSK QPSK	3655.0 3660.0
Radiated Emission > 1GHz	10 MHz 20 MHz	QPSK QPSK	3655.0 / 3675.0 / 3695.0 3660.0 / 3675.0 / 3690.0
Conducted Emissions			
Emission Mask	10 MHz 20 MHz	QPSK / 16QAM / 64QAM QPSK / 16QAM / 64QAM	3655.0 / 3675.0 / 3695.0 3660.0 / 3675.0 / 3690.0
26dBc Bandwidth			
Frequency Stability	10 MHz 20 MHz	Un-modulation	3675.0 3675.0
NOTE:			
1. Two RJ45 cables (EKSON & TUNG-LI) had been covered during the pretest and found that TUNG-LI RJ45 cable was the worst case and was selected for final testing.			

CA Mode			
Test item	Channel Bandwidth	Modulation	Test channel (MHz)
Equivalent Isotropically Radiated Power Peak EIRP Power Density	10MHz+10MHz 10MHz+20MHz 20MHz+10MHz 20MHz+20MHz	QPSK / 16QAM / 64QAM QPSK / 16QAM / 64QAM QPSK / 16QAM / 64QAM QPSK / 16QAM / 64QAM	3655.0+3664.9 / 3670.0+3679.9 / 3685.1+3695.0 3655.5+3669.9 / 3665.5+3679.9 / 3675.6+3690.0 3660.0+3674.4 / 3670.0+3684.4 / 3680.1+3694.5 3660.0+3679.8 / 3665.1+3684.9 / 3670.2+3690.0
Radiated Emission ≤ 1GHz	10MHz+10MHz 10MHz+20MHz 20MHz+10MHz 20MHz+20MHz	QPSK QPSK QPSK QPSK	3655.0+3664.9 3675.6+3690.0 3660.0+3674.4 3660.0+3679.8
Radiated Emission > 1GHz	10MHz+10MHz 10MHz+20MHz 20MHz+10MHz 20MHz+20MHz	QPSK QPSK QPSK QPSK	3655.0+3664.9 / 3670.0+3679.9 / 3685.1+3695.0 3655.5+3669.9 / 3665.5+3679.9 / 3675.6+3690.0 3660.0+3674.4 / 3670.0+3684.4 / 3680.1+3694.5 3660.0+3679.8 / 3665.1+3684.9 / 3670.2+3690.0
Conducted Emissions Emission Mask 26dBc Bandwidth	10MHz+10MHz 10MHz+20MHz 20MHz+10MHz 20MHz+20MHz	QPSK / 16QAM / 64QAM QPSK / 16QAM / 64QAM QPSK / 16QAM / 64QAM QPSK / 16QAM / 64QAM	3655.0+3664.9 / 3670.0+3679.9 / 3685.1+3695.0 3655.5+3669.9 / 3665.5+3679.9 / 3675.6+3690.0 3660.0+3674.4 / 3670.0+3684.4 / 3680.1+3694.5 3660.0+3679.8 / 3665.1+3684.9 / 3670.2+3690.0
Frequency Stability	10MHz+10MHz 10MHz+20MHz 20MHz+10MHz 20MHz+20MHz	Un-modulation	3670.0+3679.9 3665.5+3679.9 3670.0+3684.4 3665.1+3684.9
NOTE: 1. Two RJ45 cables (EKSON & TUNG-LI) had been covered during the pretest and found that TUNG-LI RJ45 cable was the worst case and was selected for final testing.			

3 Test Results

3.1 Equivalent Isotropically Radiated Power and Peak EIRP Power Density

3.1.1 Limit of Equivalent Isotropically Radiated Power and Peak EIRP Power Density

Base and fixed stations are limited to 25 watts/25 MHz equivalent isotropically radiated power (EIRP), the peak EIRP power density shall not exceed 1 Watt in any one-mega hertz slice of spectrum.

Mobile and portable stations are limited to 1 watt/25 MHz EIRP. The peak EIRP density shall not exceed 40 milli watts in any one-megahertz slice of spectrum.

3.1.2 Test Procedures

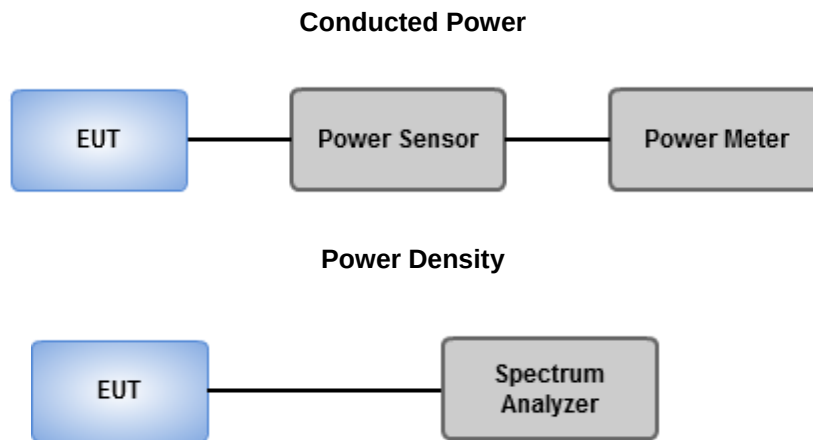
For EIRP

1. A broadband Average RF power meter is used for output power measurement. The video bandwidth of power meter is greater than occupied bandwidth of EUT. If duty cycle of test signal is not 100 %, trigger and gating function of power meter will be enabled to capture transmission burst for measuring output power
2. Determine the EIRP by adding the effective antenna gain to the adjusted power level.

For Peak EIRP Power Density

1. Connect the transmitter to the spectrum analyzer via coaxial cable (i.e., conducted measurement) while ensuring proper impedance matching.
2. Tune the analyzer to the nominal center frequency of the emission bandwidth.
3. Set the span to twice the nominal EBW (span = 2 x EBW).
4. Set the resolution bandwidth (RBW) to 1 MHz.
5. Set the video bandwidth (VBW) to 3 MHz
6. Select the average power (RMS) display detector.
7. Set the number of measurement points to ≥ 1001 .
8. Use auto-coupled sweep time.
9. Perform the measurement over an interval of time when the transmission is continuous and at its maximum power level.
10. Utilize trace averaging over 100 traces in the power averaging.
11. Find the maximum trace amplitude (peak search) and record.
12. Adjust the recorded level by applying appropriate correction factors for the measurement set-up.
13. Determine the EIRP by adding the effective antenna gain to the adjusted power level.

3.1.3 Test Setup



3.1.4 Duty Cycle and Duty Factor

Duty Cycle and Duty Factor	Mode	Duty Cycle (%)	Duty Factor (dB)
	QPSK	41.19	3.85
	16QAM	41.19	3.85
	64QAM	41.19	3.85

3.1.5 Test Result of EIRP (CDD Mode)

CB:10MHz	Channel	Frequency (MHz)	Conducted Average Power (dBm)	Max. Ant Gain (dB)	E.I.R.P Power (dBm)	E.I.R.P Power (W)	Limit (W)
QPSK	44140	3655	25.31	12	37.31	5.383	10
	44340	3675	25.18	12	37.18	5.224	10
	44540	3695	24.97	12	36.97	4.977	10
16QAM	44140	3655	24.36	12	36.36	4.325	10
	44340	3675	24.22	12	36.22	4.188	10
	44540	3695	24.02	12	36.02	3.999	10
64QAM	44140	3655	23.35	12	35.35	3.428	10
	44340	3675	23.31	12	35.31	3.396	10
	44540	3695	23.10	12	35.10	3.236	10

CB:20MHz	Channel	Frequency (MHz)	Conducted Average Power (dBm)	Max. Ant Gain (dB)	E.I.R.P Power (dBm)	E.I.R.P Power (W)	Limit (W)
QPSK	44190	3660.0	25.34	12	37.34	5.420	20
	44340	3675.0	25.26	12	37.26	5.321	20
	44490	3690.0	25.02	12	37.02	5.035	20
16QAM	44190	3660.0	24.32	12	36.32	4.285	20
	44340	3675.0	24.18	12	36.18	4.150	20
	44490	3690.0	24.03	12	36.03	4.009	20
64QAM	44190	3660.0	23.38	12	35.38	3.451	20
	44340	3675.0	23.23	12	35.23	3.334	20
	44490	3690.0	23.16	12	35.16	3.281	20

3.1.6 Test Result of EIRP (CA Mode)

CB: 10+10MHz	PCC Freq. (MHz)	SCC Freq. (MHz)	Total Conducted Power (dBm)	Directional Gain (dBi)	Total E.I.R.P Power (dBm)	Total E.I.R.P Power (W)	Limit (W)
QPSK	3655.0	3664.9	23.68	12	35.680	3.698	20
16QAM			23.09	12	35.090	3.228	20
64QAM			22.97	12	34.970	3.141	20
QPSK	3670.0	3679.9	23.39	12	35.390	3.459	20
16QAM			23.00	12	35.000	3.162	20
64QAM			22.70	12	34.700	2.951	20
QPSK	3685.1	3695.0	23.21	12	35.210	3.319	20
16QAM			22.92	12	34.920	3.105	20
64QAM			22.62	12	34.620	2.897	20

CB: 10+20MHz	PCC Freq. (MHz)	SCC Freq. (MHz)	Total Conducted Power (dBm)	Directional Gain (dBi)	Total E.I.R.P Power (dBm)	Total E.I.R.P Power (W)	Limit (W)
QPSK	3655.5	3669.9	23.67	12	35.670	3.690	25
16QAM			22.79	12	34.790	3.013	25
64QAM			22.81	12	34.810	3.027	25
QPSK	3665.5	3679.9	23.63	12	35.630	3.656	25
16QAM			22.78	12	34.780	3.006	25
64QAM			22.77	12	34.770	2.999	25
QPSK	3675.6	3690.0	23.78	12	35.780	3.784	25
16QAM			22.74	12	34.740	2.979	25
64QAM			22.69	12	34.690	2.944	25

CB: 20+10MHz	PCC Freq. (MHz)	SCC Freq. (MHz)	Total Conducted Power (dBm)	Directional Gain (dBi)	Total E.I.R.P Power (dBm)	Total E.I.R.P Power (W)	Limit (W)
QPSK	3660.0	3674.4	23.89	12	35.890	3.882	25
16QAM			22.91	12	34.910	3.097	25
64QAM			22.84	12	34.840	3.048	25
QPSK	3670.0	3684.4	23.69	12	35.690	3.707	25
16QAM			22.84	12	34.840	3.048	25
64QAM			22.75	12	34.750	2.985	25
QPSK	3680.1	3694.5	23.67	12	35.670	3.690	25
16QAM			22.64	12	34.640	2.911	25
64QAM			22.69	12	34.690	2.944	25

CB: 20+20MHz	PCC Freq. (MHz)	SCC Freq. (MHz)	Total Conducted Power (dBm)	Directional Gain (dBi)	Total E.I.R.P Power (dBm)	Total E.I.R.P Power (W)	Limit (W)
QPSK	3660.0	3679.8	23.93	12	35.930	3.917	25
16QAM			22.85	12	34.850	3.055	25
64QAM			22.89	12	34.890	3.083	25
QPSK	3665.1	3684.9	23.86	12	35.860	3.855	25
16QAM			22.84	12	34.840	3.048	25
64QAM			22.8	12	34.800	3.020	25
QPSK	3670.2	3690.0	23.69	12	35.690	3.707	25
16QAM			22.75	12	34.750	2.985	25
64QAM			22.77	12	34.770	2.999	25

3.1.7 Test Result of Peak EIRP Density (CDD Mode)

Channel Bandwidth: 10MHz- QPSK

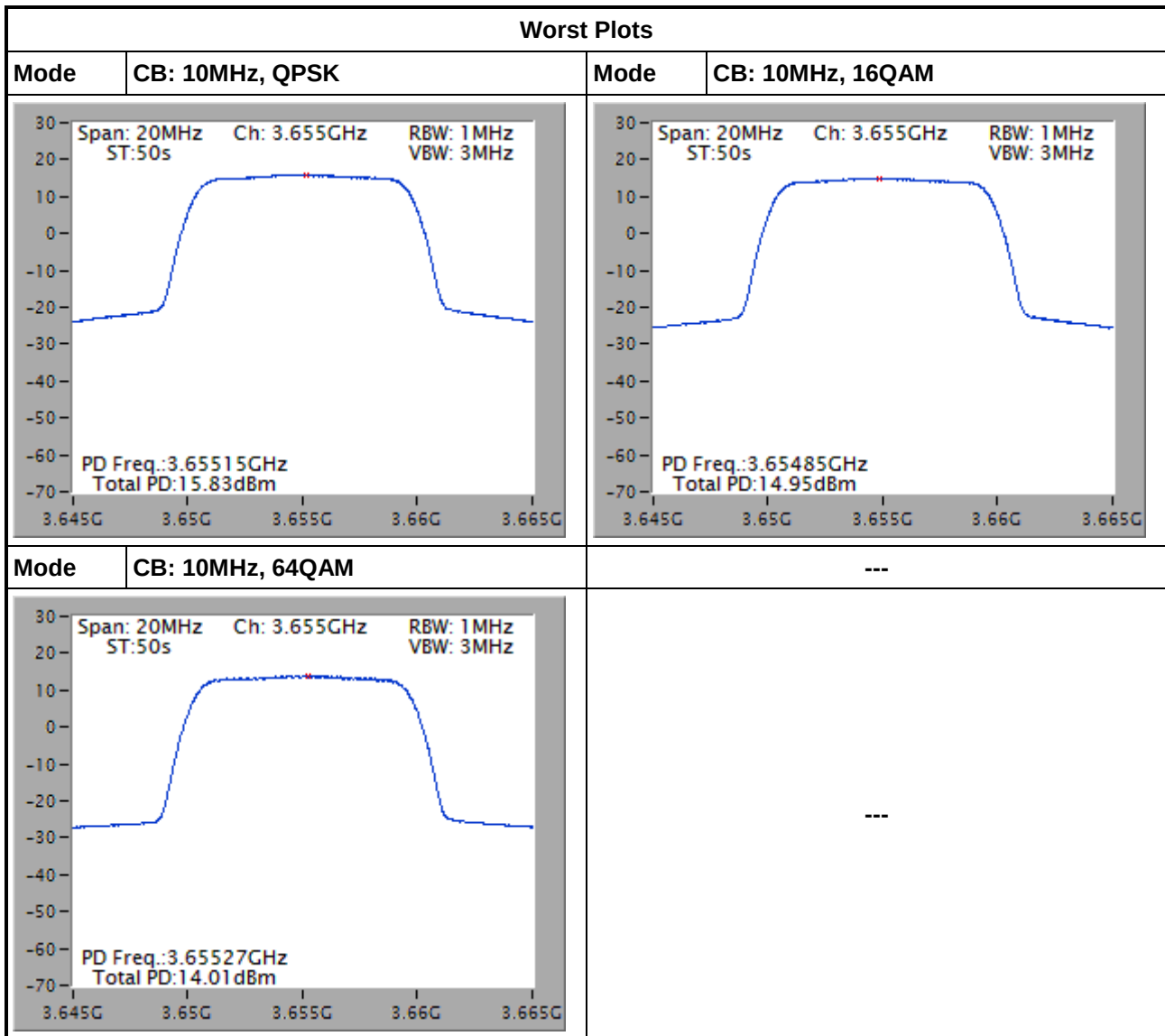
Channel	Channel Frequency (MHz)	Conducted Power Density (dBm/MHz)	Max Antenna Gain (dBi)	EIRP Power Density (dBm/MHz)	EIRP Power Density (W)	Limit (W)
44140	3655.0	15.83	12	27.83	0.607	1.00
44340	3675.0	15.63	12	27.63	0.579	1.00
44540	3695.0	15.29	12	27.29	0.536	1.00

Channel Bandwidth: 10MHz- 16QAM

Channel	Channel Frequency (MHz)	Conducted Power Density (dBm/MHz)	Max Antenna Gain (dBi)	EIRP Power Density (dBm/MHz)	EIRP Power Density (W)	Limit (W)
44140	3655.0	14.95	12	26.95	0.495	1.00
44340	3675.0	14.64	12	26.64	0.461	1.00
44540	3695.0	14.39	12	26.39	0.436	1.00

Channel Bandwidth: 10MHz- 64QAM

Channel	Channel Frequency (MHz)	Conducted Power Density (dBm/MHz)	Max Antenna Gain (dBi)	EIRP Power Density (dBm/MHz)	EIRP Power Density (W)	Limit (W)
44140	3655.0	14.01	12	26.01	0.399	1.00
44340	3675.0	13.67	12	25.67	0.369	1.00
44540	3695.0	13.46	12	25.46	0.352	1.00



Note: Test plots includes duty factor

Channel Bandwidth: 20MHz- QPSK

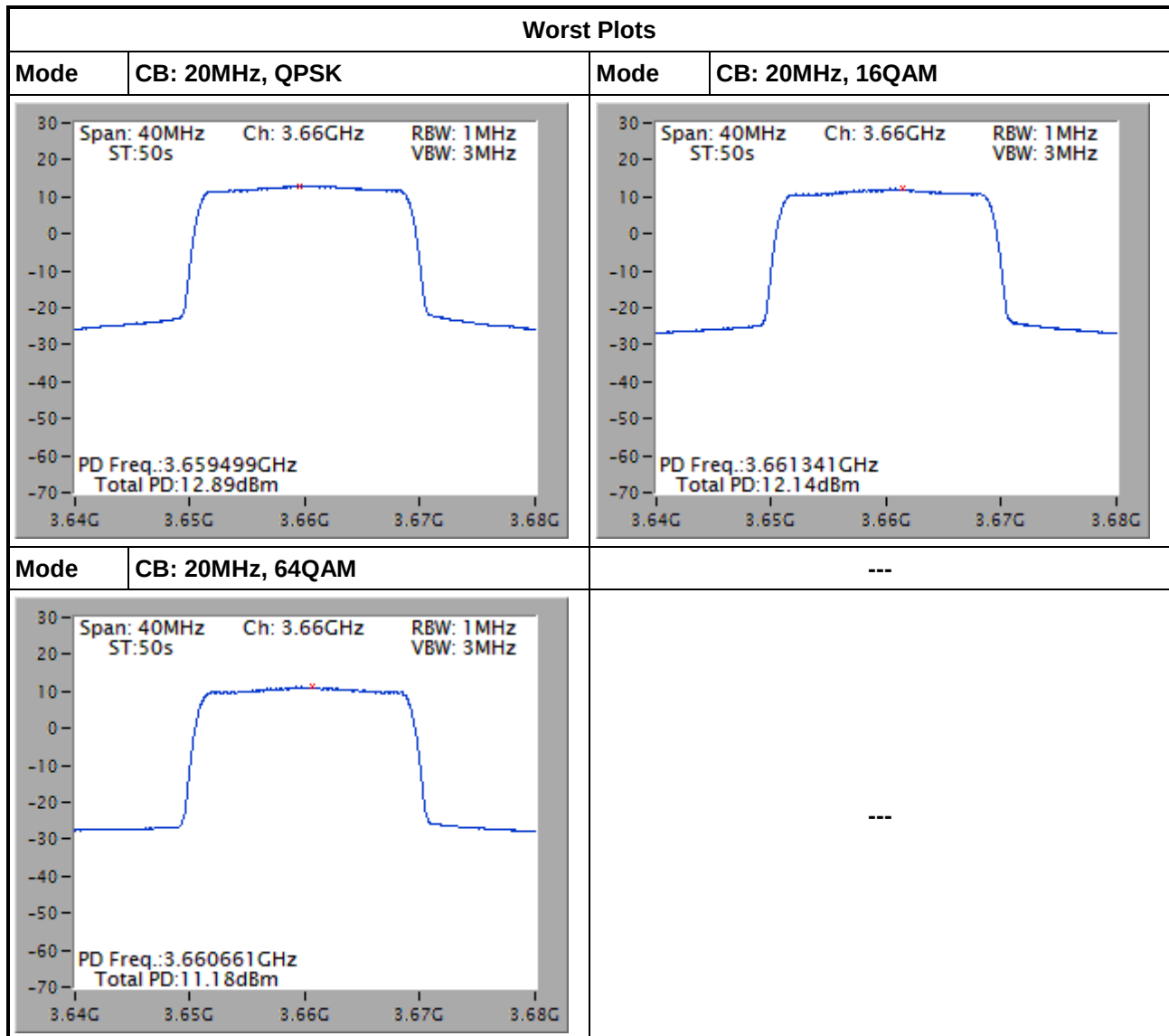
Channel	Channel Frequency (MHz)	Conducted Power Density (dBm/MHz)	Max Antenna Gain (dBi)	EIRP Power Density (dBm/MHz)	EIRP Power Density (W)	Limit (W)
44190	3660.0	12.89	12	24.89	0.308	1.00
44340	3675.0	12.85	12	24.85	0.305	1.00
44490	3690.0	12.76	12	24.76	0.299	1.00

Channel Bandwidth: 20MHz- 16QAM

Channel	Channel Frequency (MHz)	Conducted Power Density (dBm/MHz)	Max Antenna Gain (dBi)	EIRP Power Density (dBm/MHz)	EIRP Power Density (W)	Limit (W)
44190	3660.0	12.14	12	24.14	0.259	1.00
44340	3675.0	11.99	12	23.99	0.251	1.00
44490	3690.0	11.83	12	23.83	0.242	1.00

Channel Bandwidth: 20MHz- 64QAM

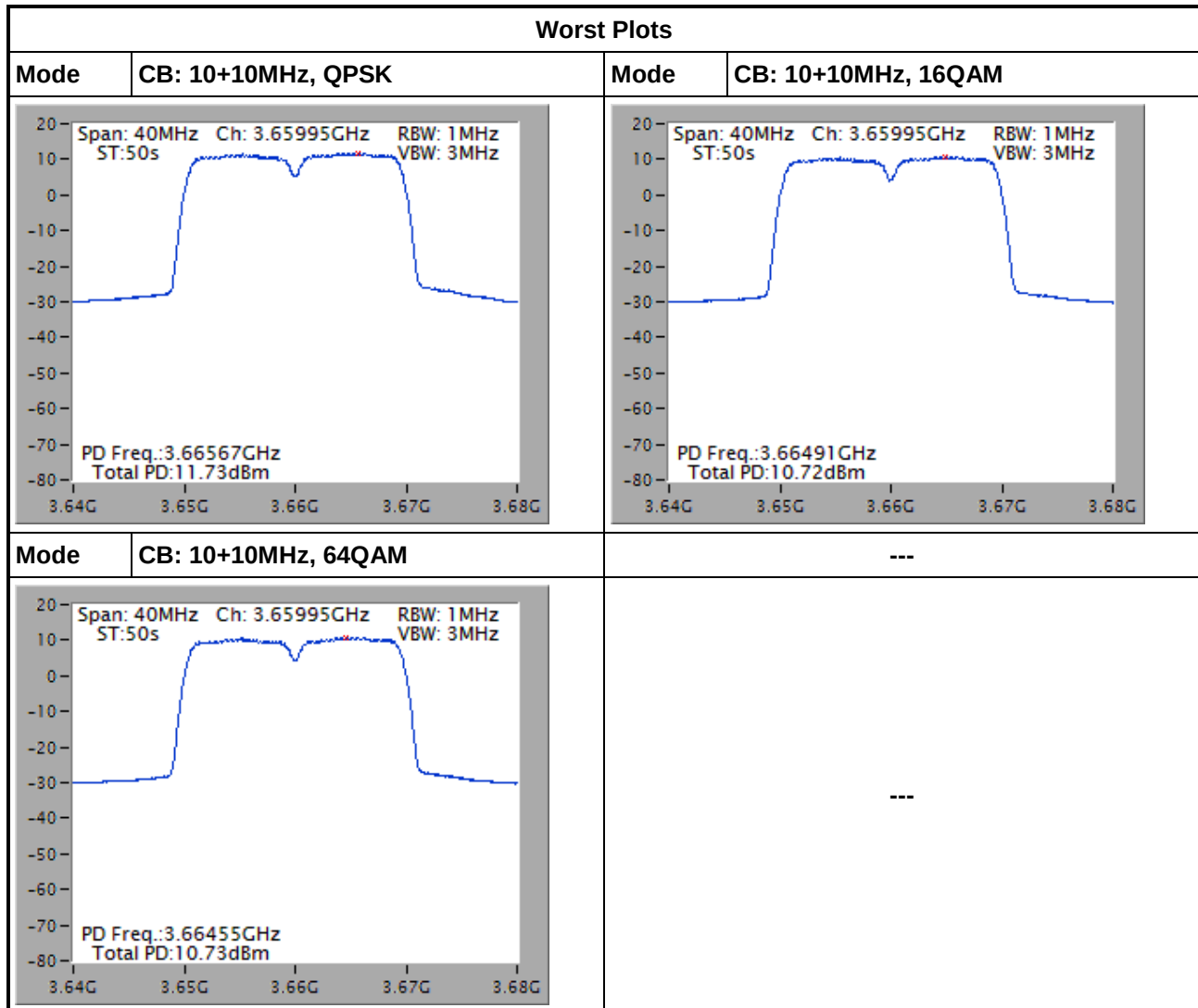
Channel	Channel Frequency (MHz)	Conducted Power Density (dBm/MHz)	Max Antenna Gain (dBi)	EIRP Power Density (dBm/MHz)	EIRP Power Density (W)	Limit (W)
44190	3660.0	11.18	12	23.18	0.208	1.00
44340	3675.0	11.05	12	23.05	0.202	1.00
44490	3690.0	10.58	12	22.58	0.181	1.00



Note: Test plots includes duty factor

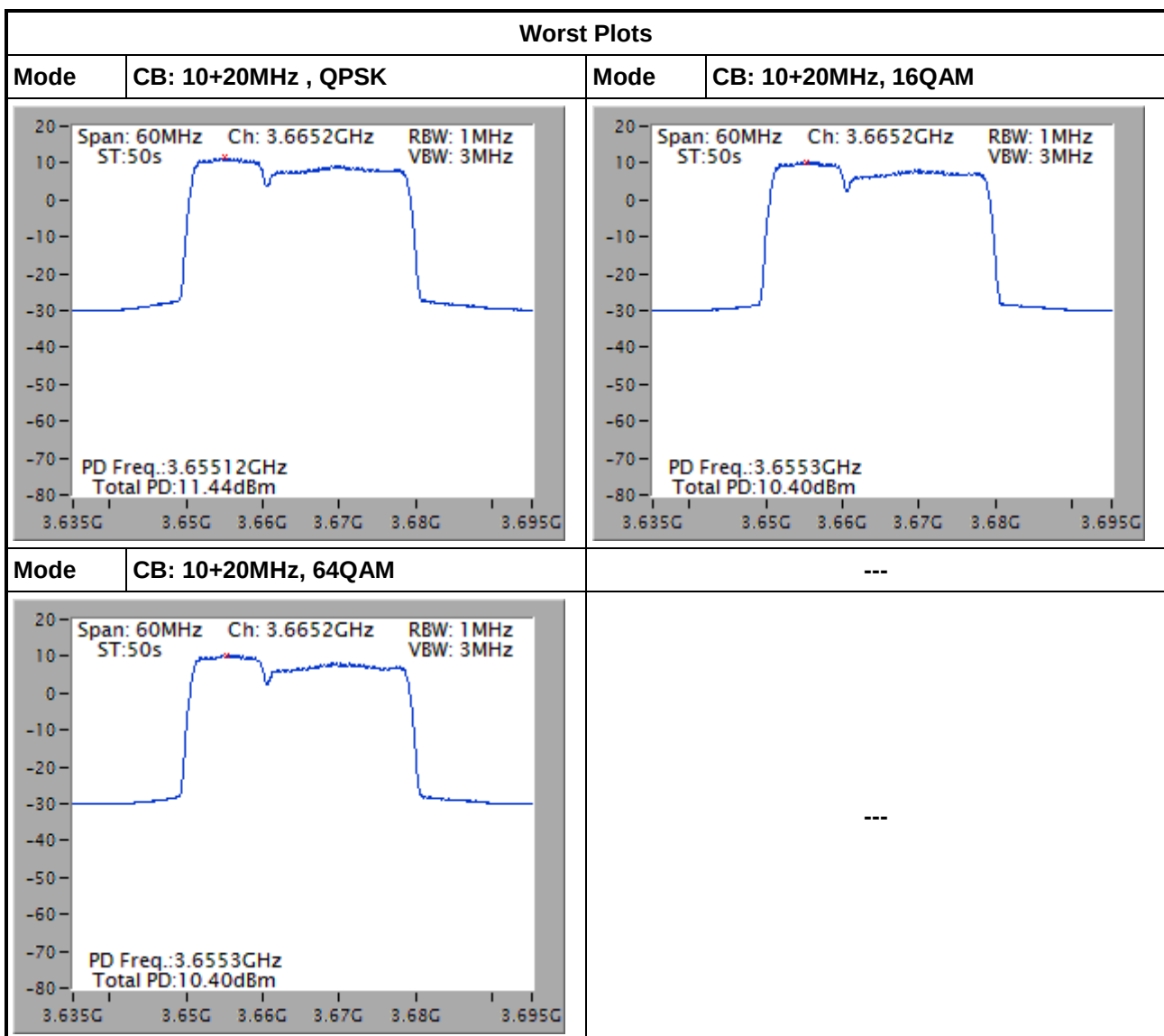
3.1.8 Test Result of Peak EIRP Density (CA Mode)

CB: 10+10MHz	PCC Freq. (MHz)	SCC Freq. (MHz)	Total PSD (dBm/MHz)	Directional Gain (dBi)	Total E.I.R.P Power (dBm)	Total E.I.R.P Power (W)	Limit (W)
QPSK	3655.0	3664.9	11.73	12	23.730	0.236	1
16QAM			10.72	12	22.720	0.187	1
64QAM			10.73	12	22.730	0.187	1
QPSK	3670.0	3679.9	11.54	12	23.540	0.226	1
16QAM			10.52	12	22.520	0.179	1
64QAM			10.58	12	22.580	0.181	1
QPSK	3685.1	3695.0	11.45	12	23.450	0.221	1
16QAM			10.51	12	22.510	0.178	1
64QAM			10.65	12	22.650	0.184	1



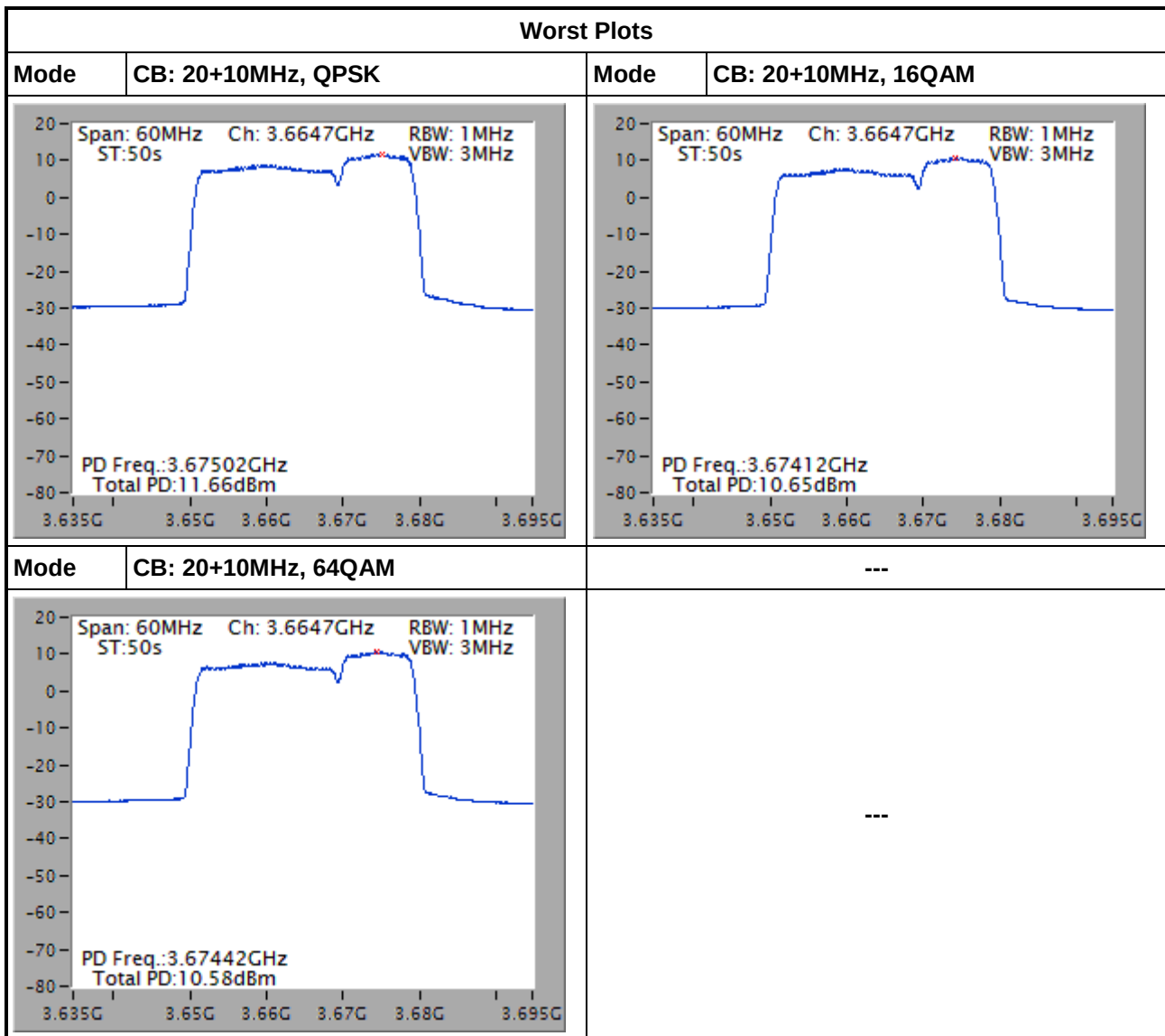
Note: Test plots includes duty factor

CB: 10+20MHz	PCC Freq. (MHz)	SCC Freq. (MHz)	Total PSD (dBm/MHz)	Directional Gain (dBi)	Total E.I.R.P Power (dBm)	Total E.I.R.P Power (W)	Limit (W)
QPSK	3655.5	3669.9	11.44	12	23.440	0.221	1
16QAM			10.40	12	22.400	0.174	1
64QAM			10.40	12	22.400	0.174	1
QPSK	3665.5	3679.9	11.24	12	23.240	0.211	1
16QAM			10.19	12	22.190	0.166	1
64QAM			10.19	12	22.190	0.166	1
QPSK	3675.6	3690.0	11.10	12	23.100	0.204	1
16QAM			10.07	12	22.070	0.161	1
64QAM			10.08	12	22.080	0.161	1



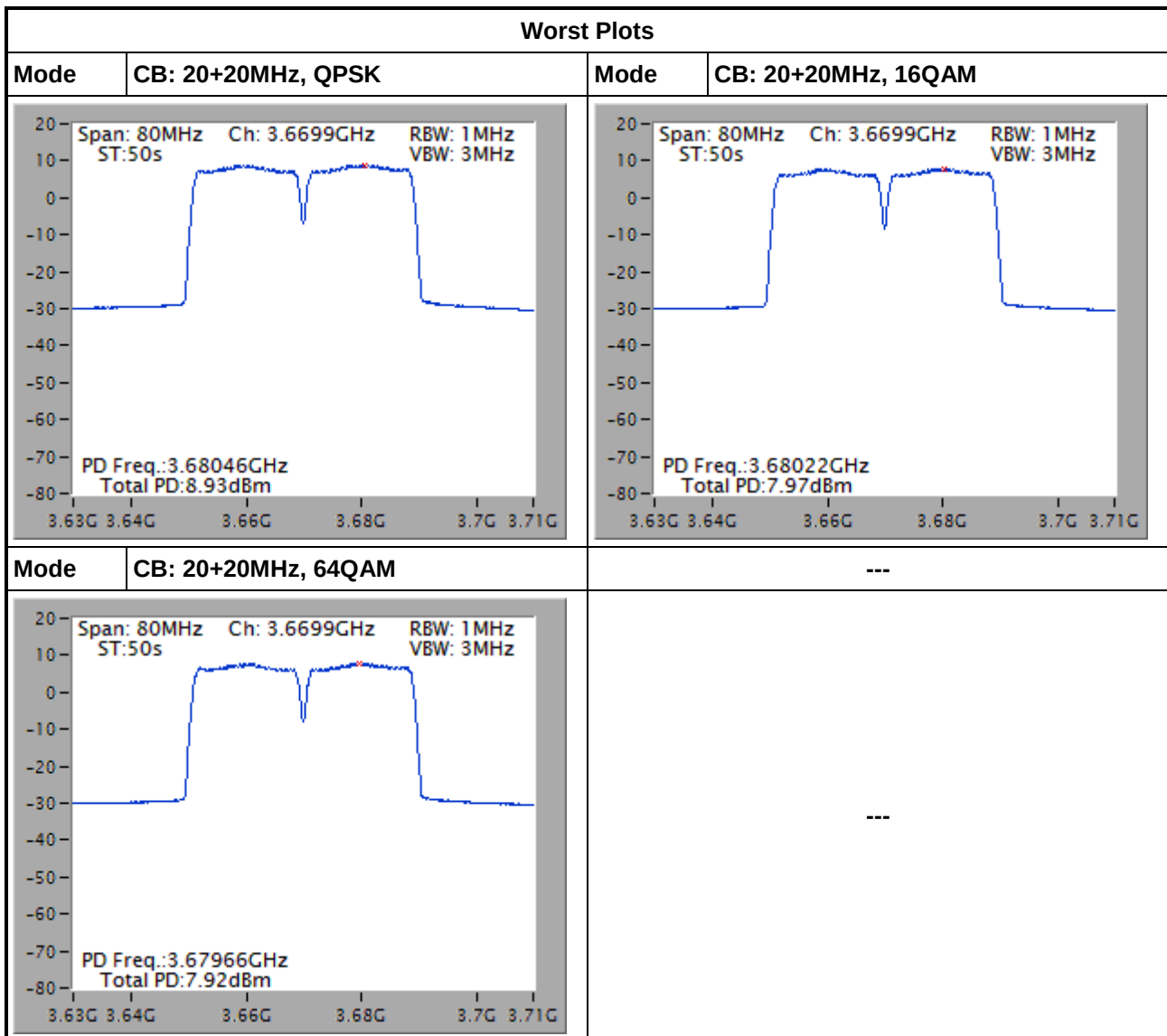
Note: Test plots includes duty factor

CB: 20+10MHz	PCC Freq. (MHz)	SCC Freq. (MHz)	Total PSD (dBm/MHz)	Directional Gain (dBi)	Total E.I.R.P Power (dBm)	Total E.I.R.P Power (W)	Limit (W)
QPSK	3660.0	3674.4	11.66	12	23.660	0.232	1
16QAM			10.65	12	22.650	0.184	1
64QAM			10.58	12	22.580	0.181	1
QPSK	3670.0	3684.4	11.48	12	23.480	0.223	1
16QAM			10.53	12	22.530	0.179	1
64QAM			10.44	12	22.440	0.175	1
QPSK	3680.1	3694.5	11.35	12	23.350	0.216	1
16QAM			10.48	12	22.480	0.177	1
64QAM			10.54	12	22.540	0.179	1



Note: Test plots includes duty factor

CB: 20+20MHz	PCC Freq. (MHz)	SCC Freq. (MHz)	Total PSD (dBm/MHz)	Directional Gain (dBi)	Total E.I.R.P Power (dBm)	Total E.I.R.P Power (W)	Limit (W)
QPSK	3660.0	3679.8	8.93	12	20.930	0.124	1
16QAM			7.97	12	19.970	0.099	1
64QAM			7.92	12	19.920	0.098	1
QPSK	3665.1	3684.9	8.85	12	20.850	0.122	1
16QAM			7.93	12	19.930	0.098	1
64QAM			7.87	12	19.870	0.097	1
QPSK	3670.2	3690.0	8.66	12	20.660	0.116	1
16QAM			7.84	12	19.840	0.096	1
64QAM			7.83	12	19.830	0.096	1



Note: Test plots includes duty factor

3.2 Radiated Emissions

3.2.1 Limit of Radiated Emissions

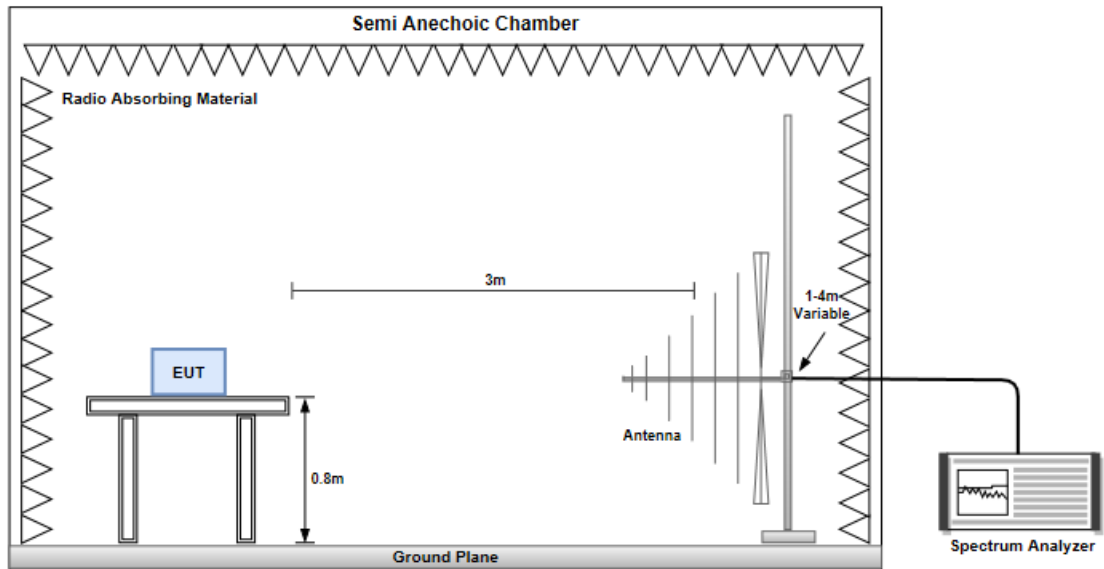
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB equal to -13dBm.

3.2.2 Test Procedures

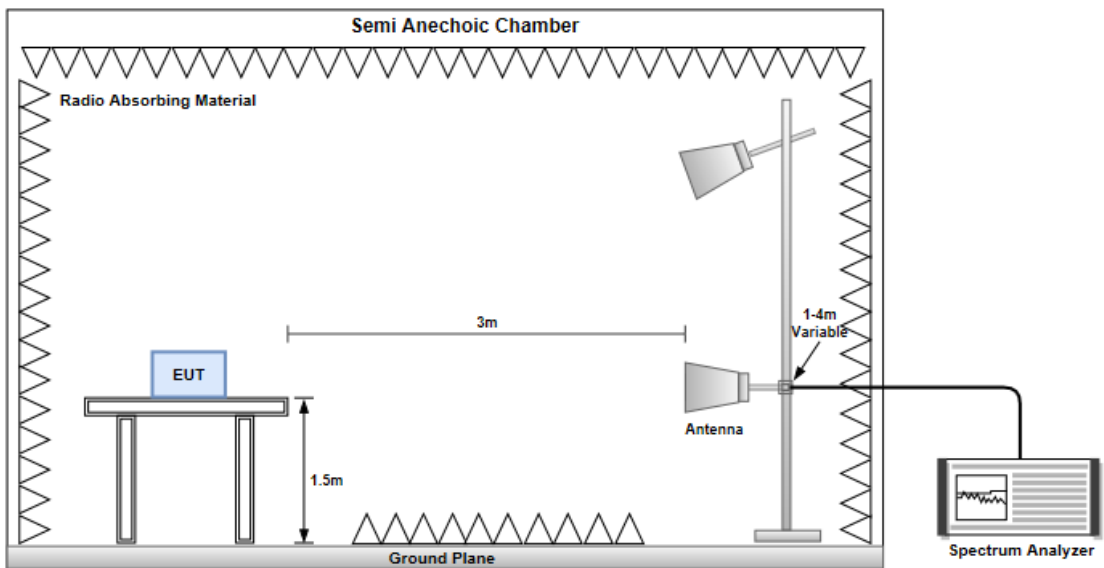
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m.
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.
4. After finding the max radiated emission, substitution method will be used for getting effective radiated power. EUT will be removed and substitution antenna will be placed at same position. Signal generator will output CW signal to substitution antenna through a RF cable. Rotate turntable and move antenna to find maximum radiated emission. Adjust output power of signal generator to let the maximum radiated emission is same as step 3. Record the output power level.
5. E.I.R.P = output power of step 4 + gain of substitution antenna – cable loss of RF cable.

3.2.3 Test Setup

Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz



3.2.4 Test Result of Radiated Emissions below 1GHz (CDD Mode)

Mode	CB:10MHz, Channel:44140						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
33.88	H	-54.80	-13.00	-41.80	-62.43	-41.44	-13.36
95.96	H	-54.77	-13.00	-41.77	-53.03	-55.01	0.24
195.87	H	-60.09	-13.00	-47.09	-56.01	-63.66	3.57
283.17	H	-67.49	-13.00	-54.49	-65.44	-71.53	4.04
624.61	H	-65.52	-13.00	-52.52	-70.90	-69.01	3.49
749.74	H	-58.86	-13.00	-45.86	-67.41	-61.84	2.98
35.82	V	-51.46	-13.00	-38.46	-47.68	-38.40	-13.06
92.08	V	-52.14	-13.00	-39.14	-50.70	-52.43	0.29
164.83	V	-61.58	-13.00	-48.58	-63.61	-61.36	-0.22
201.69	V	-60.75	-13.00	-47.75	-61.80	-64.78	4.03
624.61	V	-63.78	-13.00	-50.78	-72.39	-67.27	3.49
749.74	V	-61.92	-13.00	-48.92	-71.08	-64.90	2.98

Note: EIRP=S.G Power value + Correction Factor

Mode	CB:20MHz, Channel:44190						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
33.88	H	-55.03	-13.00	-42.03	-62.66	-41.67	-13.36
93.05	H	-55.07	-13.00	-42.07	-53.16	-55.35	0.28
195.87	H	-60.63	-13.00	-47.63	-56.55	-64.20	3.57
287.05	H	-67.75	-13.00	-54.75	-65.81	-71.78	4.03
624.61	H	-65.29	-13.00	-52.29	-70.67	-68.78	3.49
749.74	H	-59.36	-13.00	-46.36	-67.91	-62.34	2.98
33.88	V	-51.76	-13.00	-38.76	-47.85	-38.40	-13.36
95.96	V	-53.05	-13.00	-40.05	-51.93	-53.29	0.24
149.31	V	-62.79	-13.00	-49.79	-64.57	-61.61	-1.18
195.87	V	-60.87	-13.00	-47.87	-62.05	-64.44	3.57
624.61	V	-65.15	-13.00	-52.15	-73.76	-68.64	3.49
749.74	V	-61.69	-13.00	-48.69	-70.85	-64.67	2.98

Note: EIRP=S.G Power value + Correction Factor

3.2.5 Test Result of Radiated Emissions below 1GHz (CA Mode)

Mode	CB:10MHz+10MHz, Channel:44140+44239						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
97.90	H	-52.71	-13.00	-39.71	-50.93	-52.92	0.21
166.77	H	-60.77	-13.00	-47.77	-59.68	-60.81	0.04
249.22	H	-71.41	-13.00	-58.41	-68.33	-75.54	4.13
374.35	H	-67.08	-13.00	-54.08	-68.98	-71.11	4.03
499.48	H	-67.44	-13.00	-54.44	-71.10	-71.32	3.88
624.61	H	-66.40	-13.00	-53.40	-71.78	-69.89	3.49
89.17	V	-54.39	-13.00	-41.39	-52.53	-54.51	0.12
164.83	V	-60.99	-13.00	-47.99	-63.02	-60.77	-0.22
212.36	V	-62.47	-13.00	-49.47	-63.79	-66.52	4.05
374.35	V	-67.36	-13.00	-54.36	-69.46	-71.39	4.03
499.48	V	-66.34	-13.00	-53.34	-70.35	-70.22	3.88
624.61	V	-64.20	-13.00	-51.20	-72.81	-67.69	3.49

Note: EIRP=S.G Power value + Correction Factor

Mode	CB:10MHz+20MHz, Channel:44346+44490						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
97.89	H	-52.65	-13.00	-39.65	-50.87	-52.86	0.21
166.77	H	-60.59	-13.00	-47.59	-59.50	-60.63	0.04
249.38	H	-71.59	-13.00	-58.59	-68.52	-75.72	4.13
374.35	H	-67.29	-13.00	-54.29	-69.19	-71.32	4.03
499.51	H	-67.29	-13.00	-54.29	-70.95	-71.17	3.88
624.61	H	-66.33	-13.00	-53.33	-71.71	-69.82	3.49
89.23	V	-54.33	-13.00	-41.33	-52.49	-54.47	0.14
164.82	V	-60.81	-13.00	-47.81	-62.84	-60.59	-0.22
212.22	V	-62.51	-13.00	-49.51	-63.83	-66.56	4.05
374.35	V	-67.44	-13.00	-54.44	-69.54	-71.47	4.03
499.45	V	-66.49	-13.00	-53.49	-70.50	-70.37	3.88
624.61	V	-64.28	-13.00	-51.28	-72.89	-67.77	3.49

Note: EIRP=S.G Power value + Correction Factor

Mode	CB:20MHz+10MHz, Channel:44190+44334						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
97.81	H	-52.66	-13.00	-39.66	-50.89	-52.87	0.21
166.77	H	-60.62	-13.00	-47.62	-59.53	-60.66	0.04
249.22	H	-71.32	-13.00	-58.32	-68.24	-75.45	4.13
374.38	H	-67.27	-13.00	-54.27	-69.17	-71.30	4.03
499.48	H	-67.39	-13.00	-54.39	-71.05	-71.27	3.88
624.59	H	-66.32	-13.00	-53.32	-71.70	-69.81	3.49
89.24	V	-54.46	-13.00	-41.46	-52.62	-54.60	0.14
164.78	V	-60.81	-13.00	-47.81	-62.85	-60.58	-0.23
212.36	V	-62.59	-13.00	-49.59	-63.91	-66.64	4.05
374.35	V	-67.41	-13.00	-54.41	-69.51	-71.44	4.03
499.46	V	-66.44	-13.00	-53.44	-70.45	-70.32	3.88
624.61	V	-64.26	-13.00	-51.26	-72.87	-67.75	3.49

Note: EIRP=S.G Power value + Correction Factor

Mode	CB:20MHz+20MHz, Channel:44190+44388						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
97.82	H	-52.63	-13.00	-39.63	-50.85	-52.84	0.21
166.77	H	-60.69	-13.00	-47.69	-59.60	-60.73	0.04
249.31	H	-71.31	-13.00	-58.31	-68.24	-75.44	4.13
374.35	H	-67.29	-13.00	-54.29	-69.19	-71.32	4.03
499.48	H	-67.35	-13.00	-54.35	-71.01	-71.23	3.88
624.55	H	-66.29	-13.00	-53.29	-71.67	-69.78	3.49
89.24	V	-54.48	-13.00	-41.48	-52.64	-54.62	0.14
164.77	V	-60.82	-13.00	-47.82	-62.86	-60.59	-0.23
212.40	V	-62.52	-13.00	-49.52	-63.84	-66.57	4.05
374.35	V	-67.46	-13.00	-54.46	-69.56	-71.49	4.03
499.45	V	-66.28	-13.00	-53.28	-70.29	-70.16	3.88
624.61	V	-64.22	-13.00	-51.22	-72.83	-67.71	3.49

Note: EIRP=S.G Power value + Correction Factor

3.2.6 Test Result of Radiated Emissions above 1GHz (CDD Mode)

Mode	CB:10MHz, Channel:44140						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
7310.00	H	-31.14	-13.00	-18.14	-50.31	-34.67	3.53
10965.00	H	-37.13	-13.00	-24.13	-59.31	-37.72	0.59
14620.00	H	-39.31	-13.00	-26.31	-63.23	-39.32	0.01
7310.00	V	-31.81	-13.00	-18.81	-51.87	-35.34	3.53
10965.00	V	-38.84	-13.00	-25.84	-60.97	-39.43	0.59
14620.00	V	-36.51	-13.00	-23.51	-62.49	-36.52	0.01
Mode	CB:10MHz, Channel:44340						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
7350.00	H	-32.12	-13.00	-19.12	-51.52	-35.58	3.46
11025.00	H	-34.19	-13.00	-21.19	-56.41	-34.78	0.59
14700.00	H	-38.31	-13.00	-25.31	-62.44	-38.49	0.18
7350.00	V	-33.19	-13.00	-20.19	-53.21	-36.65	3.46
11025.00	V	-37.17	-13.00	-24.17	-59.45	-37.76	0.59
14700.00	V	-36.29	-13.00	-23.29	-62.66	-36.47	0.18
Mode	CB:10MHz, Channel:44540						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
7390.00	H	-31.59	-13.00	-18.59	-51.22	-34.98	3.39
11085.00	H	-31.15	-13.00	-18.15	-53.48	-31.79	0.64
14780.00	H	-38.32	-13.00	-25.32	-62.65	-38.67	0.35
7390.00	V	-33.32	-13.00	-20.32	-53.31	-36.71	3.39
11085.00	V	-34.95	-13.00	-21.95	-57.42	-35.59	0.64
14780.00	V	-35.55	-13.00	-22.55	-62.31	-35.90	0.35

Note: EIRP=S.G Power value + Correction Factor

Mode	CB:20MHz, Channel:44190						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
7320.00	H	-36.26	-13.00	-23.26	-55.49	-39.77	3.51
10980.00	H	-38.14	-13.00	-25.14	-60.32	-38.72	0.58
14640.00	H	-39.26	-13.00	-26.26	-63.23	-39.31	0.05
7320.00	V	-35.83	-13.00	-22.83	-55.88	-39.34	3.51
10980.00	V	-39.53	-13.00	-26.53	-61.69	-40.11	0.58
14640.00	V	-36.36	-13.00	-23.36	-62.44	-36.41	0.05
Mode	CB:20MHz, Channel:44340						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
7350.00	H	-37.23	-13.00	-24.23	-56.63	-40.69	3.46
11025.00	H	-37.84	-13.00	-24.84	-60.06	-38.43	0.59
14700.00	H	-38.46	-13.00	-25.46	-62.59	-38.64	0.18
7350.00	V	-37.66	-13.00	-24.66	-57.68	-41.12	3.46
11025.00	V	-35.16	-13.00	-22.16	-57.44	-35.75	0.59
14700.00	V	-36.19	-13.00	-23.19	-62.56	-36.37	0.18
Mode	CB:20MHz, Channel:44490						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
7380.00	H	-35.89	-13.00	-22.89	-55.46	-39.30	3.41
11070.00	H	-33.96	-13.00	-20.96	-56.26	-34.59	0.63
14760.00	H	-38.26	-13.00	-25.26	-25.26	-38.57	0.31
7380.00	V	-36.13	-13.00	-23.13	-56.13	-39.54	3.41
11070.00	V	-35.94	-13.00	-22.94	-58.36	-36.57	0.63
14760.00	V	-35.75	-13.00	-22.75	-62.41	-36.06	0.31

Note: EIRP=S.G Power value + Correction Factor

3.2.7 Test Result of Radiated Emissions above 1GHz (CA Mode)

Mode	CB:10MHz+10MHz, Channel:44140+44239						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
7319.90	H	-42.50	-13.00	-29.50	-61.73	-46.01	3.51
10979.85	H	-40.39	-13.00	-27.39	-62.57	-40.97	0.58
14639.80	H	-37.96	-13.00	-24.96	-61.93	-38.01	0.05
7319.90	V	-40.75	-13.00	-27.75	-60.80	-44.26	3.51
10979.85	V	-41.61	-13.00	-28.61	-63.77	-42.19	0.58
14639.80	V	-38.06	-13.00	-25.06	-64.14	-38.11	0.05
Mode	CB:10MHz+10MHz, Channel:44290+44389						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
7349.90	H	-43.05	-13.00	-30.05	-62.45	-46.51	3.46
11024.85	H	-42.39	-13.00	-29.39	-64.61	-42.98	0.59
14699.80	H	-39.68	-13.00	-26.68	-63.81	-39.86	0.18
7349.90	V	-42.14	-13.00	-29.14	-62.17	-45.60	3.46
11024.85	V	-41.44	-13.00	-28.44	-63.72	-42.03	0.59
14699.80	V	-35.95	-13.00	-22.95	-62.32	-36.13	0.18
Mode	CB:10MHz+10MHz, Channel:44441+44540						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
7380.10	H	-43.11	-13.00	-30.11	-62.68	-46.52	3.41
11070.15	H	-41.84	-13.00	-28.84	-64.14	-42.47	0.63
14760.20	H	-39.70	-13.00	-26.70	-63.99	-40.01	0.31
7380.10	V	-42.71	-13.00	-29.71	-62.71	-46.12	3.41
11070.15	V	-41.70	-13.00	-28.70	-64.12	-42.33	0.63
14760.20	V	-36.96	-13.00	-23.96	-63.62	-37.27	0.31

Note: EIRP=S.G Power value + Correction Factor

Mode	CB:10MHz+20MHz, Channel:44145+44289						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
7330.40	H	-43.71	-13.00	-30.71	-63.00	-47.21	3.50
10995.60	H	-41.48	-13.00	-28.48	-63.66	-42.05	0.57
14660.80	H	-40.75	-13.00	-27.75	-64.78	-40.85	0.10
7330.40	V	-42.64	-13.00	-29.64	-62.69	-46.14	3.50
10995.60	V	-42.37	-13.00	-29.37	-64.56	-42.94	0.57
14660.80	V	-37.10	-13.00	-24.10	-63.29	-37.20	0.10
Mode	CB:10MHz+20MHz, Channel:44245+44389						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
7350.40	H	-43.29	-13.00	-30.29	-62.69	-46.75	3.46
11025.60	H	-41.34	-13.00	-28.34	-63.56	-41.93	0.59
14700.80	H	-39.31	-13.00	-26.31	-63.44	-39.49	0.18
7350.40	V	-42.62	-13.00	-29.62	-62.64	-46.08	3.46
11025.60	V	-41.61	-13.00	-28.61	-63.89	-42.20	0.59
14700.80	V	-37.74	-13.00	-24.74	-64.11	-37.92	0.18
Mode	CB:10MHz+20MHz, Channel:44346+44490						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
7370.60	H	-42.93	-13.00	-29.93	-62.45	-46.35	3.42
11055.90	H	-41.24	-13.00	-28.24	-63.52	-41.86	0.62
14741.20	H	-39.25	-13.00	-26.25	-63.49	-39.52	0.27
7370.60	V	-42.20	-13.00	-29.20	-62.21	-45.62	3.42
11055.90	V	-41.04	-13.00	-28.04	-63.42	-41.66	0.62
14741.20	V	-37.01	-13.00	-24.01	-63.58	-37.28	0.27

Note: EIRP=S.G Power value + Correction Factor

Mode	CB:20MHz+10MHz, Channel:44190+44334						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
7329.40	H	-43.27	-13.00	-30.27	-62.56	-46.77	3.50
10994.10	H	-41.38	-13.00	-28.38	-63.55	-41.95	0.57
14658.80	H	-39.47	-13.00	-26.47	-63.49	-39.56	0.09
7329.40	V	-42.11	-13.00	-29.11	-62.16	-45.61	3.50
10994.10	V	-41.28	-13.00	-28.28	-63.46	-41.85	0.57
14658.80	V	-37.30	-13.00	-24.30	-63.48	-37.39	0.09
Mode	CB:20MHz+10MHz, Channel:44290+44434						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
7349.40	H	-42.95	-13.00	-29.95	-62.35	-46.41	3.46
11024.10	H	-41.84	-13.00	-28.84	-64.06	-42.43	0.59
14698.80	H	-39.57	-13.00	-26.57	-63.69	-39.75	0.18
7349.40	V	-42.52	-13.00	-29.52	-62.55	-45.98	3.46
11024.10	V	-41.36	-13.00	-28.36	-63.63	-41.95	0.59
14698.80	V	-37.19	-13.00	-24.19	-63.55	-37.37	0.18
Mode	CB:20MHz+10MHz, Channel:44391+44535						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
7369.60	H	-42.96	-13.00	-29.96	-62.48	-46.38	3.42
11054.40	H	-41.34	-13.00	-28.34	-63.62	-41.95	0.61
14739.20	H	-39.90	-13.00	-26.90	-64.13	-40.17	0.27
7369.60	V	-42.20	-13.00	-29.20	-62.21	-45.62	3.42
11054.40	V	-41.09	-13.00	-28.09	-63.46	-41.70	0.61
14739.20	V	-36.93	-13.00	-23.93	-63.49	-37.20	0.27

Note: EIRP=S.G Power value + Correction Factor

Mode	CB:20MHz+20MHz, Channel:44190+44388						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
7339.80	H	-42.42	-13.00	-29.42	-61.76	-45.90	3.48
11009.70	H	-42.10	-13.00	-29.10	-64.30	-42.68	0.58
14679.60	H	-37.94	-13.00	-24.94	-62.02	-38.08	0.14
7339.80	V	-42.65	-13.00	-29.65	-62.69	-46.13	3.48
11009.70	V	-41.45	-13.00	-28.45	-63.68	-42.03	0.58
14679.60	V	-37.86	-13.00	-24.86	-64.13	-38.00	0.14
Mode	CB:20MHz+20MHz, Channel:44241+44439						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
7350.00	H	-43.01	-13.00	-30.01	-62.41	-46.47	3.46
11025.00	H	-41.24	-13.00	-28.24	-63.46	-41.83	0.59
14700.00	H	-40.02	-13.00	-27.02	-64.15	-40.20	0.18
7350.00	V	-42.38	-13.00	-29.38	-62.40	-45.84	3.46
11025.00	V	-41.14	-13.00	-28.14	-63.42	-41.73	0.59
14700.00	V	-37.50	-13.00	-24.50	-63.87	-37.68	0.18
Mode	CB:20MHz+20MHz, Channel:44292+44490						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
7360.20	H	-43.00	-13.00	-30.00	-62.46	-46.44	3.44
11040.30	H	-41.41	-13.00	-28.41	-63.66	-42.01	0.60
14720.40	H	-39.85	-13.00	-26.85	-64.04	-40.08	0.23
7360.20	V	-42.11	-13.00	-29.11	-62.12	-45.55	3.44
11040.30	V	-41.73	-13.00	-28.73	-64.05	-42.33	0.60
14720.40	V	-37.51	-13.00	-24.51	-63.99	-37.74	0.23

Note: EIRP=S.G Power value + Correction Factor

3.3 Conducted Emissions

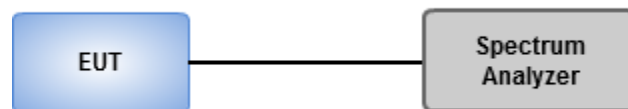
3.3.1 Limit of Conducted Emissions

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 equal to -13dBm.

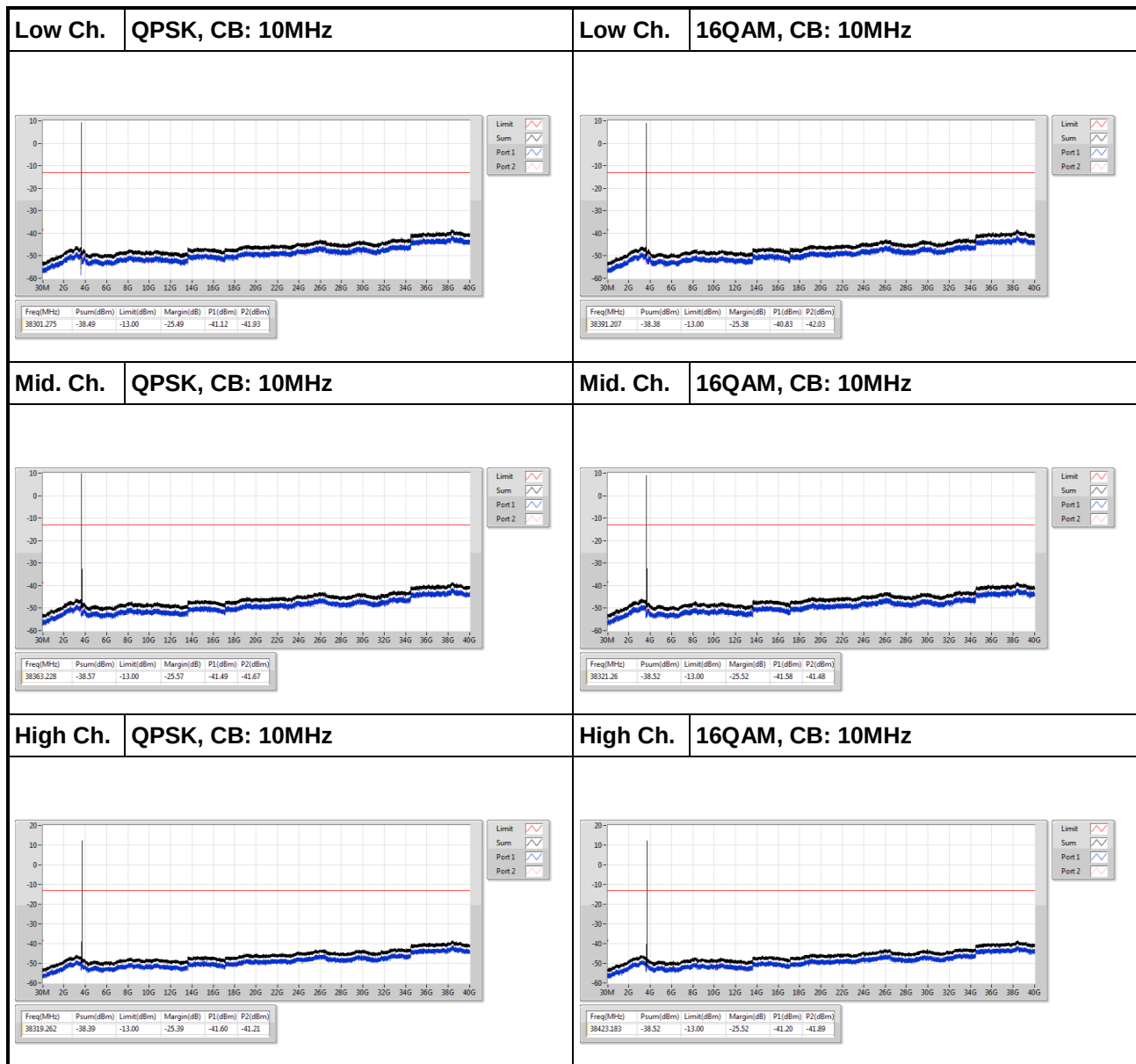
3.3.2 Test Procedures

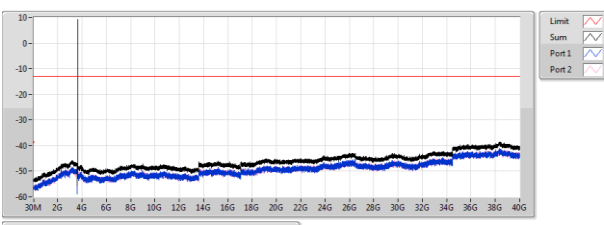
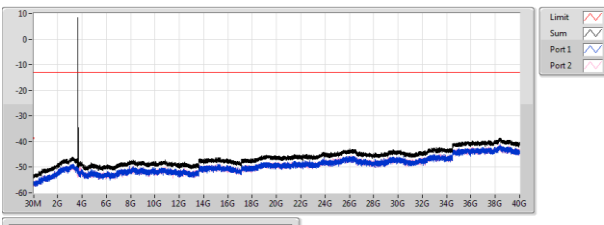
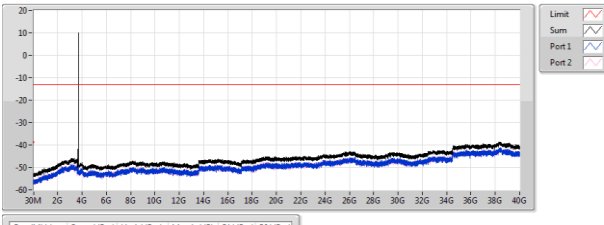
1. Lowest, middle and highest operating channels are tested for this item.
2. Scan frequency range is from 30MHz~40GHz.
3. Set RBW = 1MHz, VBW = 3MHz, detector = RMS, sweep time = auto.
4. Record the max trace value and capture the test plot of each sub frequency band.

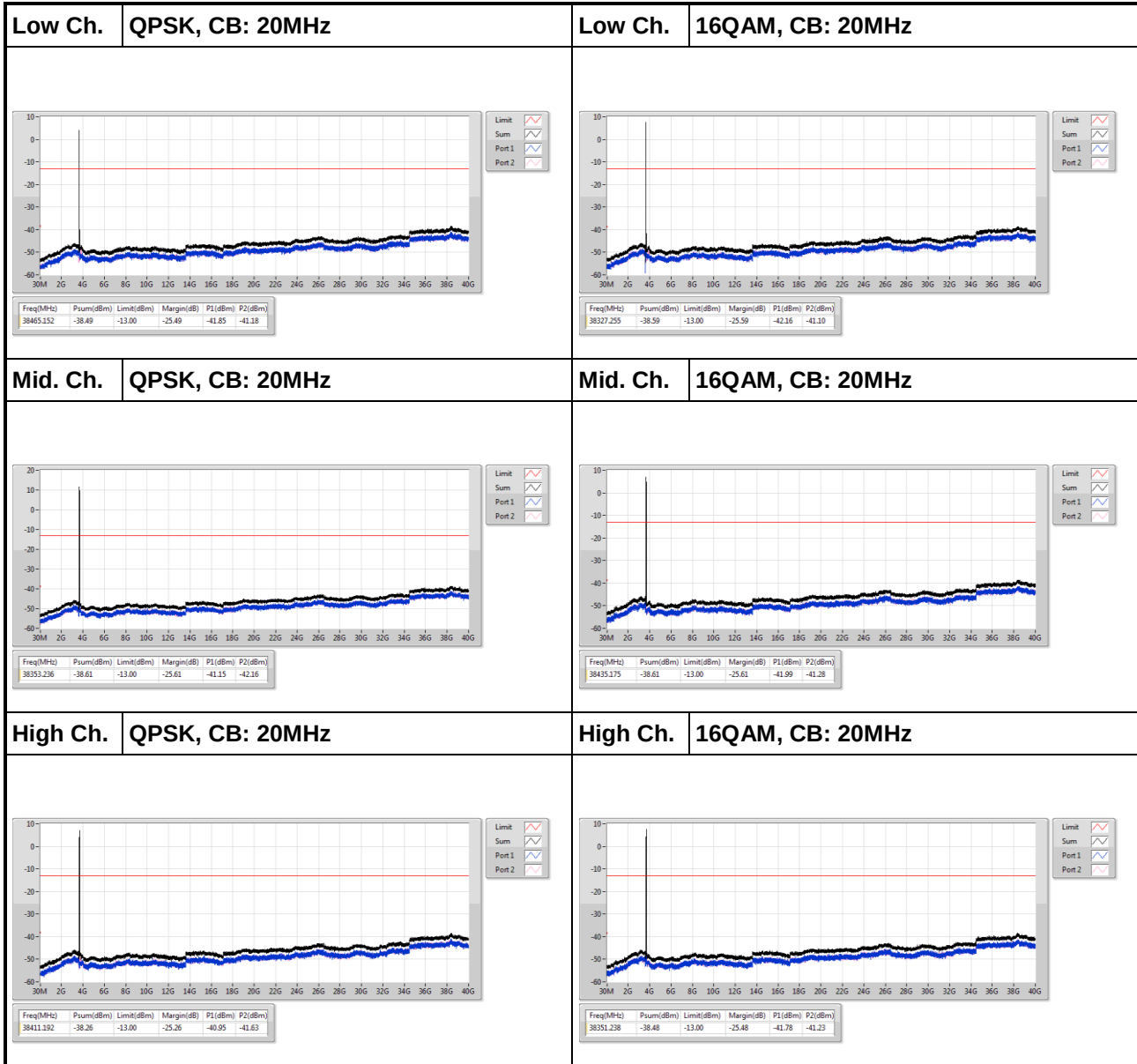
3.3.3 Test Setup

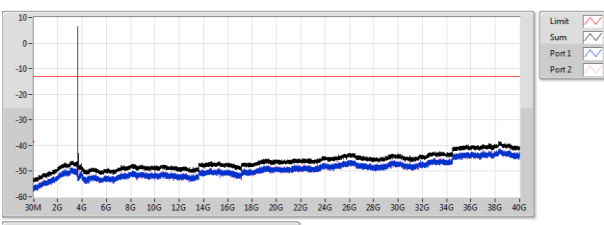
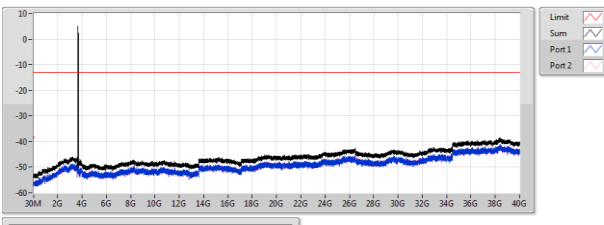
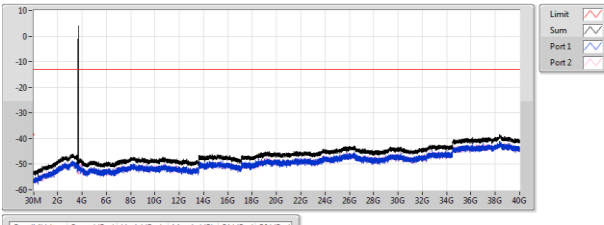


3.3.4 Test Result of Conducted Emissions (CDD Mode)

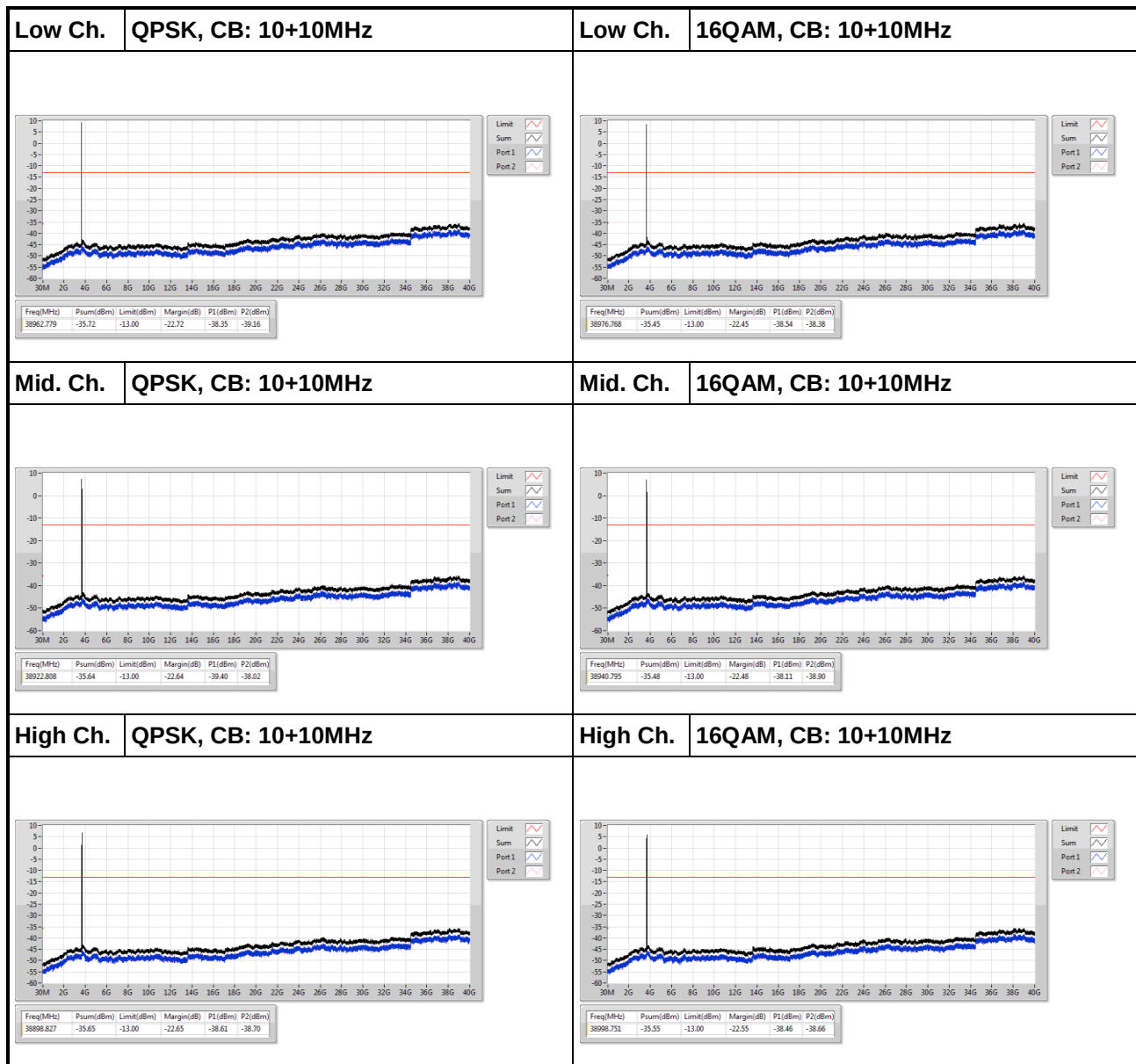


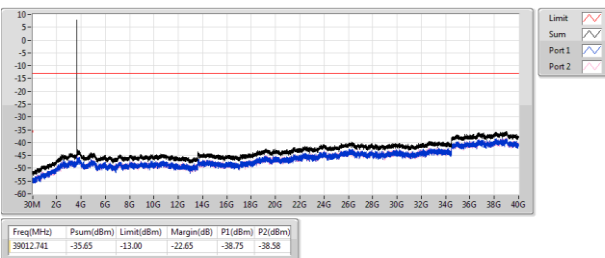
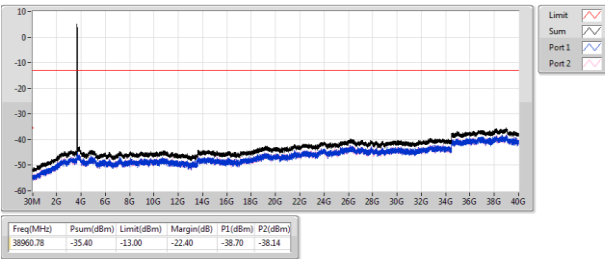
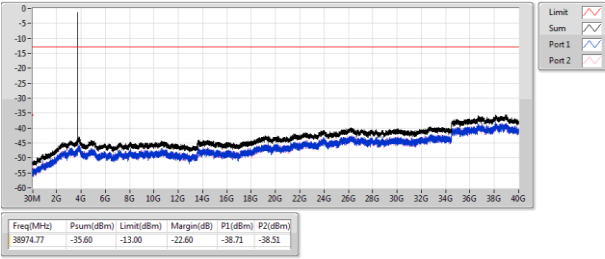
Low Ch.	64QAM, CB: 10MHz	---												
 <table><thead><tr><th>Freq(MHz)</th><th>Psum(dBm)</th><th>Limit(dBm)</th><th>Margin(dB)</th><th>P1(dBm)</th><th>P2(dBm)</th></tr></thead><tbody><tr><td>38385.212</td><td>-38.56</td><td>-13.00</td><td>-25.56</td><td>-41.59</td><td>-41.56</td></tr></tbody></table>		Freq(MHz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)	P2(dBm)	38385.212	-38.56	-13.00	-25.56	-41.59	-41.56	---
Freq(MHz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)	P2(dBm)									
38385.212	-38.56	-13.00	-25.56	-41.59	-41.56									
Mid. Ch.	64QAM, CB: 10MHz	---												
 <table><thead><tr><th>Freq(MHz)</th><th>Psum(dBm)</th><th>Limit(dBm)</th><th>Margin(dB)</th><th>P1(dBm)</th><th>P2(dBm)</th></tr></thead><tbody><tr><td>38425.182</td><td>-38.64</td><td>-13.00</td><td>-25.64</td><td>-41.57</td><td>-41.73</td></tr></tbody></table>		Freq(MHz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)	P2(dBm)	38425.182	-38.64	-13.00	-25.64	-41.57	-41.73	---
Freq(MHz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)	P2(dBm)									
38425.182	-38.64	-13.00	-25.64	-41.57	-41.73									
High Ch.	64QAM, CB: 10MHz	---												
 <table><thead><tr><th>Freq(MHz)</th><th>Psum(dBm)</th><th>Limit(dBm)</th><th>Margin(dB)</th><th>P1(dBm)</th><th>P2(dBm)</th></tr></thead><tbody><tr><td>38301.275</td><td>-38.78</td><td>-13.00</td><td>-25.78</td><td>-42.07</td><td>-41.52</td></tr></tbody></table>		Freq(MHz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)	P2(dBm)	38301.275	-38.78	-13.00	-25.78	-42.07	-41.52	---
Freq(MHz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)	P2(dBm)									
38301.275	-38.78	-13.00	-25.78	-42.07	-41.52									

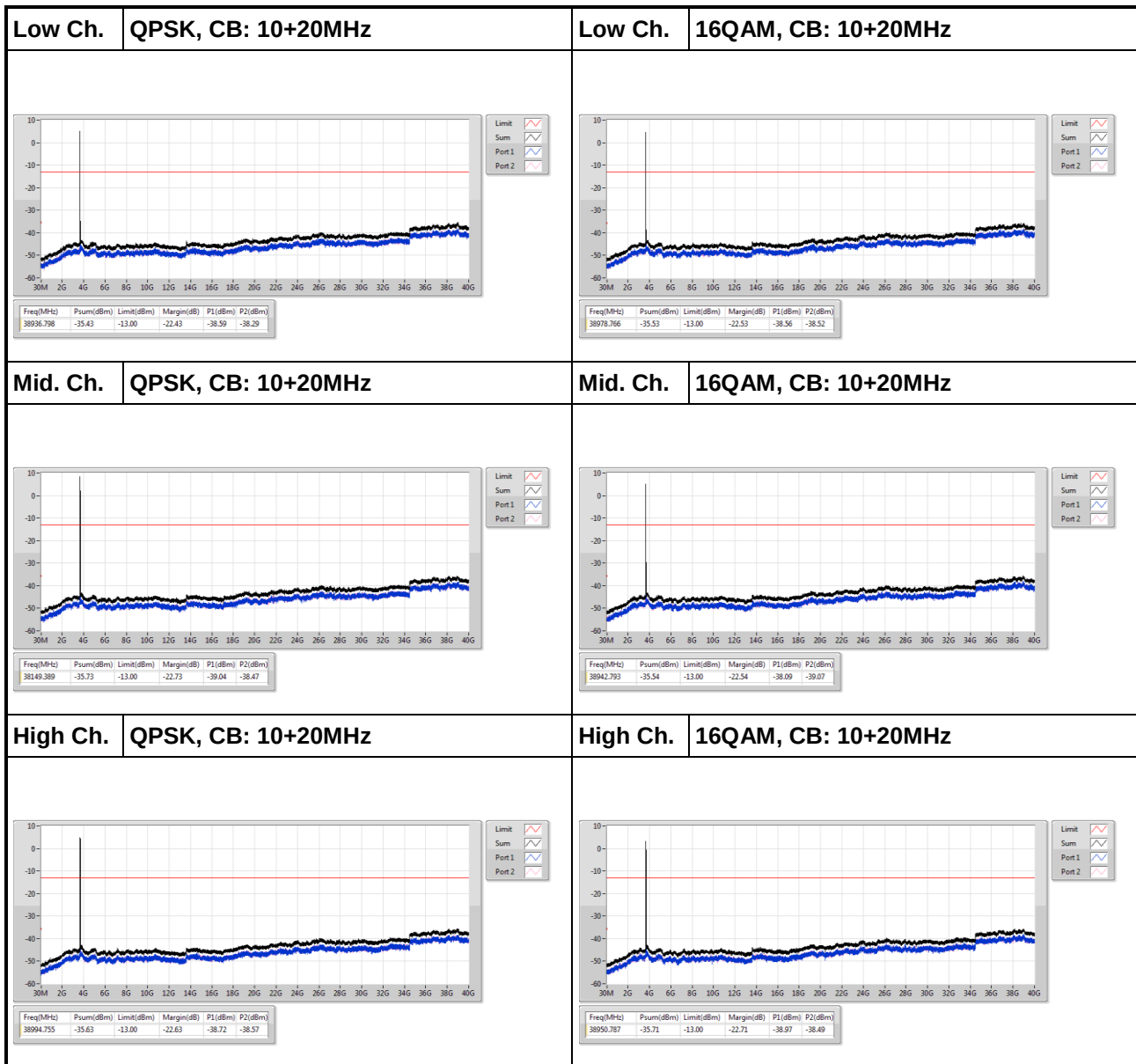


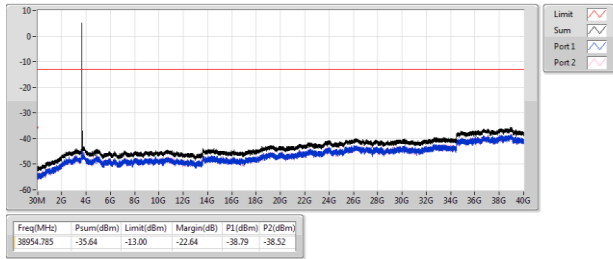
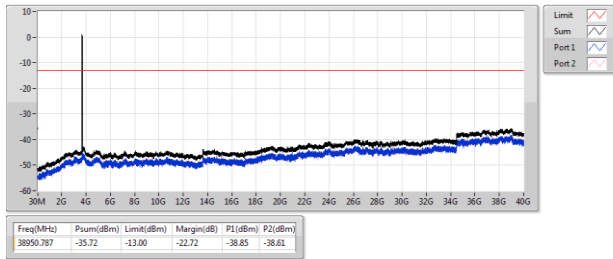
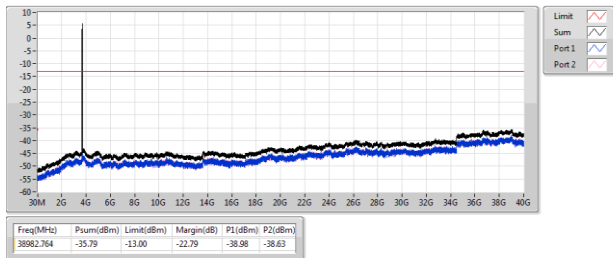
Low Ch.	64QAM, CB: 20MHz	---												
 <table><thead><tr><th>Freq(MHz)</th><th>Psum(dBm)</th><th>Limit(dBm)</th><th>Margin(dB)</th><th>P1(dBm)</th><th>P2(dBm)</th></tr></thead><tbody><tr><td>38423.183</td><td>-38.51</td><td>-13.00</td><td>-25.51</td><td>-41.67</td><td>-41.38</td></tr></tbody></table>		Freq(MHz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)	P2(dBm)	38423.183	-38.51	-13.00	-25.51	-41.67	-41.38	---
Freq(MHz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)	P2(dBm)									
38423.183	-38.51	-13.00	-25.51	-41.67	-41.38									
Mid. Ch.	64QAM, CB: 20MHz	---												
 <table><thead><tr><th>Freq(MHz)</th><th>Psum(dBm)</th><th>Limit(dBm)</th><th>Margin(dB)</th><th>P1(dBm)</th><th>P2(dBm)</th></tr></thead><tbody><tr><td>38393.206</td><td>-38.45</td><td>-13.00</td><td>-25.45</td><td>-41.24</td><td>-41.68</td></tr></tbody></table>		Freq(MHz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)	P2(dBm)	38393.206	-38.45	-13.00	-25.45	-41.24	-41.68	---
Freq(MHz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)	P2(dBm)									
38393.206	-38.45	-13.00	-25.45	-41.24	-41.68									
High Ch.	64QAM, CB: 20MHz	---												
 <table><thead><tr><th>Freq(MHz)</th><th>Psum(dBm)</th><th>Limit(dBm)</th><th>Margin(dB)</th><th>P1(dBm)</th><th>P2(dBm)</th></tr></thead><tbody><tr><td>38339.247</td><td>-38.46</td><td>-13.00</td><td>-25.46</td><td>-41.58</td><td>-41.36</td></tr></tbody></table>		Freq(MHz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)	P2(dBm)	38339.247	-38.46	-13.00	-25.46	-41.58	-41.36	---
Freq(MHz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)	P2(dBm)									
38339.247	-38.46	-13.00	-25.46	-41.58	-41.36									

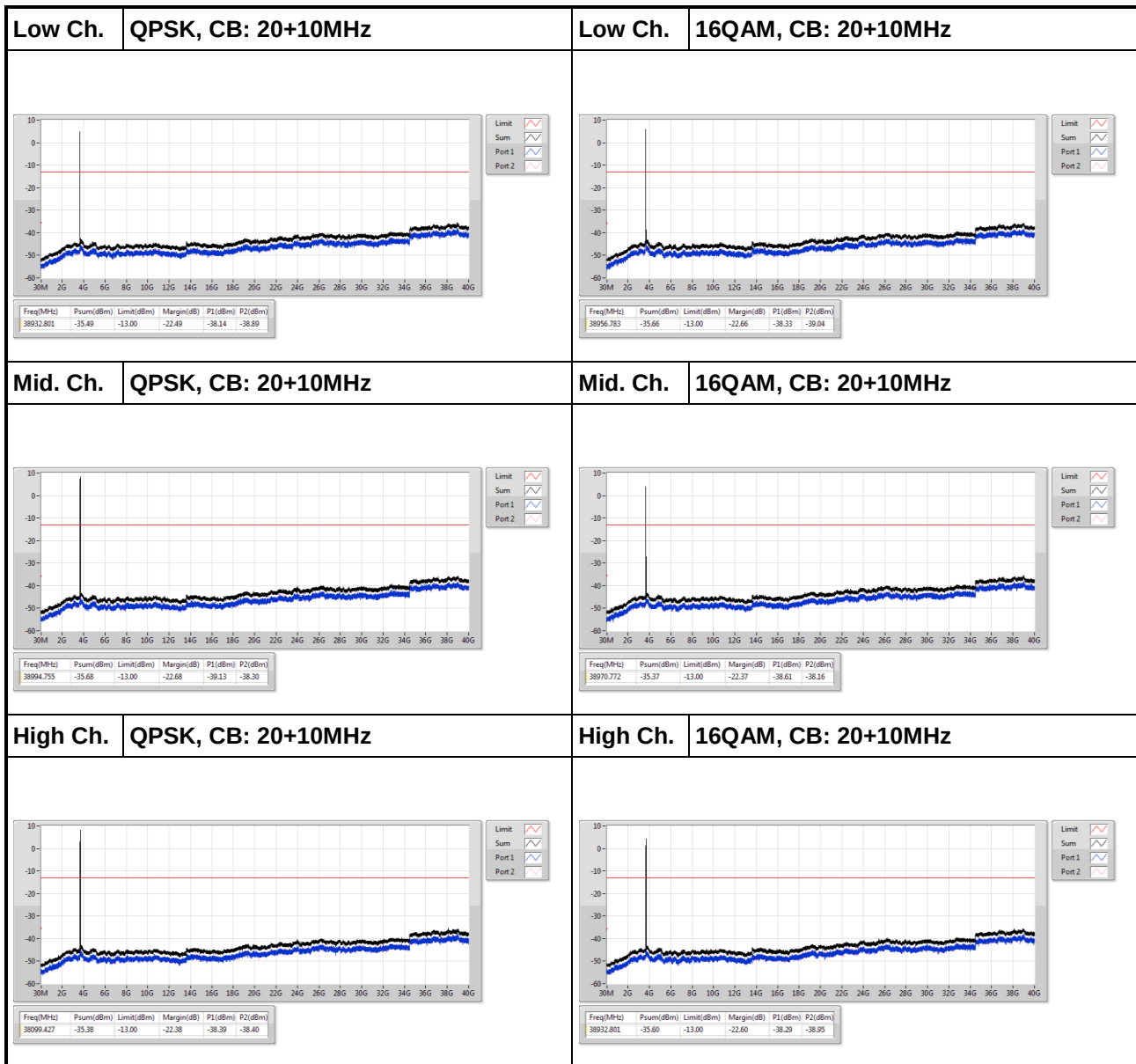
3.3.5 Test Result of Conducted Emissions (CA Mode)

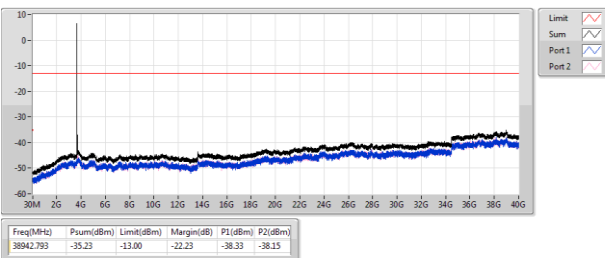
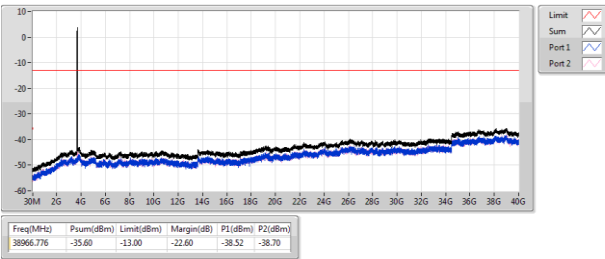
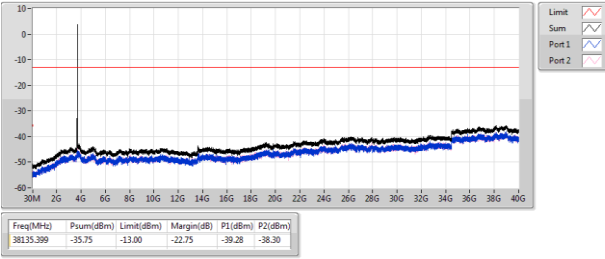


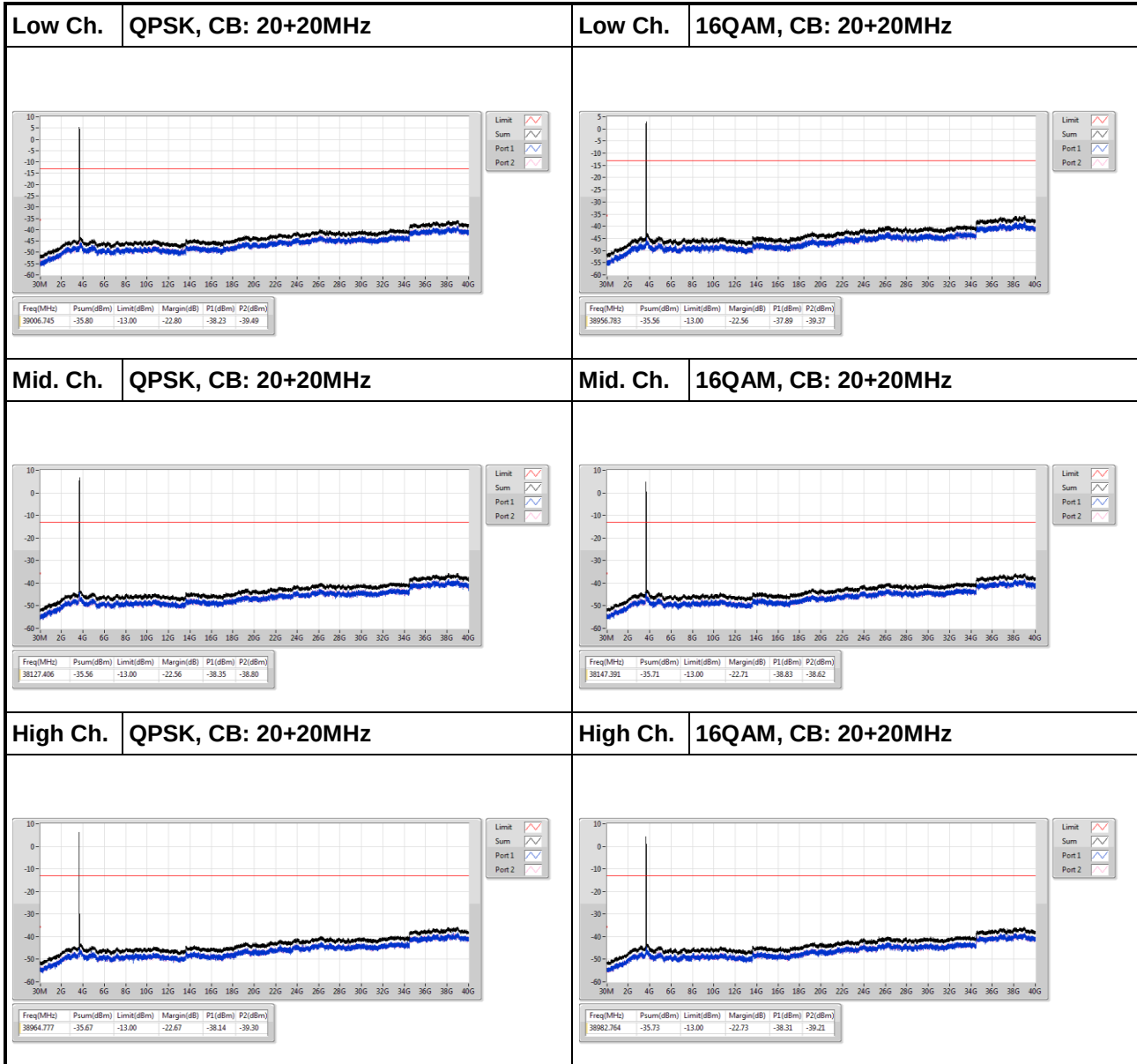
Low Ch.	64QAM, CB: 10+10MHz	---
		---
Mid. Ch.	64QAM, CB: 10+10MHz	---
		---
High Ch.	64QAM, CB: 10+10MHz	---
		---

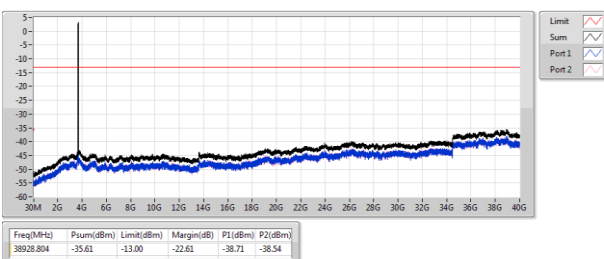
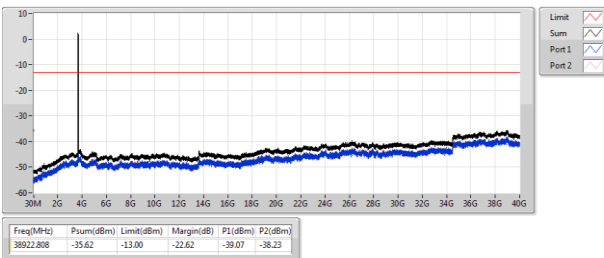
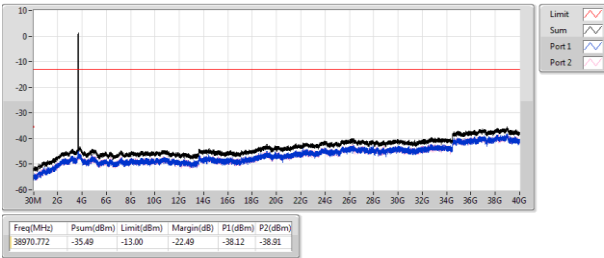


Low Ch.	64QAM, CB: 10+20MHz	---												
 <table><tr><th>Freq(MHz)</th><th>Psum(dBm)</th><th>Limit(dBm)</th><th>Margin(dB)</th><th>P1(dBm)</th><th>P2(dBm)</th></tr><tr><td>38954.785</td><td>-35.64</td><td>-13.00</td><td>-22.64</td><td>-38.79</td><td>-38.52</td></tr></table>		Freq(MHz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)	P2(dBm)	38954.785	-35.64	-13.00	-22.64	-38.79	-38.52	---
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38954.785	-35.64	-13.00	-22.64	-38.79	-38.52									
Mid. Ch.	64QAM, CB: 10+20MHz	---												
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High Ch.	64QAM, CB: 10+20MHz	---												
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Low Ch.	64QAM, CB: 20+10MHz	---
		---
Mid. Ch.	64QAM, CB: 20+10MHz	---
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High Ch.	64QAM, CB: 20+10MHz	---
		---



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