International Certification Corp.
No. 3-1, Lane 6, Wen San 3rd St., Kwei Shan Hsiang, Tao Yuan Hsien 333, Taiwan, R.O.C.
Tel: 886-3-271-8666 Fax: 886-3-318-0155

FCC Test Report

FCC ID	:	**2AAGMVZ20Q**
Equipment	:	**VZ20Q module**
Model No.	:	**VZ20Q**
Brand Name	:	**EZLinkLTE**
Applicant	:	**Sequans Communications**
Address	:	**19 LE PARVIS DE LA DEFENSE, PARIS-LA DEFENSE CEDEX, France, 92073**
Manufacturer	:	**AcSiP**
Address	:	**3F.-1, No. 207, Fuxing Rd., Taoyuan City, Taoyuan County 33066, Taiwan (R.O.C)**
Standard	:	**47 CFR FCC Part 27 Subpart L**
Received Date	:	**Jun. 14, 2013**
Tested Date	:	**Jun. 14 ~ Jul. 12, 2013**

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.

Approved & Reviewed by:

Gary Chang / Manager

Testing Laboratory
2732

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Release Record

Report No.	Version	Description	Issued Date
FG370901B4	Rev. 01	Initial issue	Jul. 15, 2013
FG370901B4	Rev. 02	Adding EIRP of 16QAM	Aug. 7, 2013

Summary of Test Results

FCC Rules	Test Items	Measured	Result
2.1046 / 27.50(d)(4)	Equivalent Isotropically Radiated Power	Power[dBm]: 26.05	Pass
2.1053 / 27.53(h)	Radiated Emissions	Meet the requirement of limit	Pass
2.1051 / 27.53(h)	Conducted Emissions	Meet the requirement of limit	Pass
27.53(h)	Band Edge Measurement	Meet the requirement of limit	Pass
2.1049 / 27.53(h)	Occupied Bandwidth	Meet the requirement of limit	Pass
2.1055 / 27.54	Frequency Stability	Meet the requirement of limit	Pass
27.50(d)(5)	Peak to Average Ratio	Meet the requirement of limit	Pass

1 General Description

1.1 Information

1.1.1 Specification of the Equipment under Test (EUT)

Operating band (MHz)	Channel Bandwidth: 1.4MHz: 1710.7~1754.3 Channel Bandwidth: 3MHz: 1711.5~1753.5 Channel Bandwidth: 5MHz: 1712.5~1752.5 Channel Bandwidth: 10MHz: 1715~1750 Channel Bandwidth: 15MHz: 1717.5~1747.5 Channel Bandwidth: 20MHz: 1720~1745
Modulation	Uplink: QPSK, 16QAM Downlink: QPSK, 16QAM, 64QAM
Category	4
H/W Version	REV02
S/W Version	MFW3.2.0 / ASW2.2.0

1.1.2 Maximum EIRP, Frequency Tolerance and Emission Designator

Channel Bandwidth (MHz)	Modulation	Maximum EIRP (dBm)	Frequency Tolerance (ppm)	Emission Designator
1.4	QPSK	25.84	0.013	1M09G7D
3	QPSK	25.75	0.016	2M71G7D
5	QPSK	26.05	0.015	4M54G7D
10	QPSK	26.01	0.017	9M03G7D
15	QPSK	25.98	0.015	13M46G7D
20	QPSK	25.81	0.016	18M0G7D

1.1.3 Antenna Details

Ant. No.	Type	Gain (dBi)	Connector	Remark
1	Isotropic	2	SMA	---

1.1.4 EUT Operational Condition

Supply Voltage	☐	AC mains	☒	DC	
Type of DC Source	☐	Internal DC supply	☐	External DC adapter	☒ From host
Operational Voltage	☒	Vnom (120 V)	☒	Vmax (126.5 V)	☒ Vmin (93.5 V)
Operational Climatic	☒	Tnom (20°C)	☒	Tmax (70°C)	☒ Tmin (-30°C)

1.1.5 Accessories

N/A

1.1.6 Operating Channel List

Channel Bandwidth: 1.4 MHz	Channel	Frequency (MHz)
Low	19957	1710.7
Middle	20175	1732.5
High	20393	1754.3

Channel Bandwidth: 3 MHz	Channel	Frequency (MHz)
Low	19965	1711.5
Middle	20175	1732.5
High	20385	1753.5

Channel Bandwidth: 5 MHz	Channel	Frequency (MHz)
Low	19975	1712.5
Middle	20175	1732.5
High	20375	1752.5

Channel Bandwidth: 10 MHz	Channel	Frequency (MHz)
Low	20000	1715.0
Middle	20175	1732.5
High	20350	1750.0

Channel Bandwidth: 15 MHz	Channel	Frequency (MHz)
Low	20025	1717.5
Middle	20175	1732.5
High	20325	1747.5

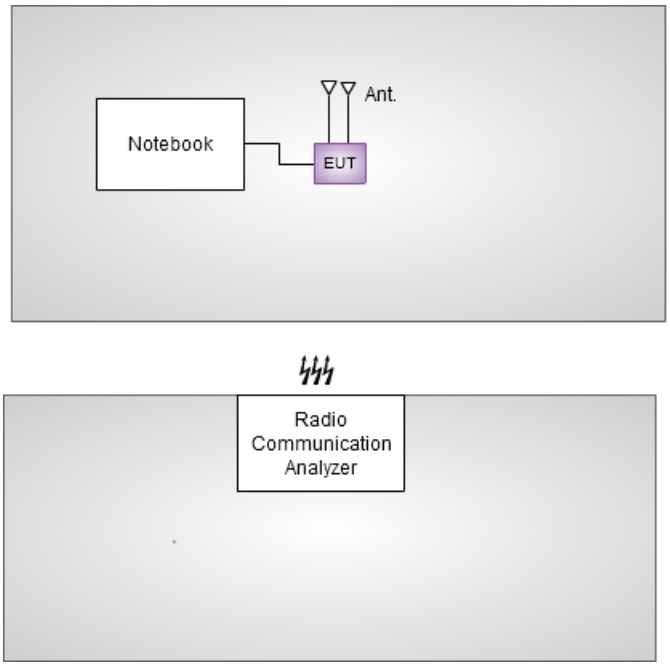
Channel Bandwidth: 20 MHz	Channel	Frequency (MHz)
Low	20050	1720.0
Middle	20175	1732.5
High	20300	1745.0

1.2 Local Support Equipment List

Support Equipment List						
No.	**Equipment**	**Brand**	**Model**	**S/N**	**FCC ID**	**Signal cable / Length (m)**
1	Notebook	DELL	E6430	---	DoC	USB, 1m non-shielded w/o core
2	Radio Communication Analyzer	Anritsu	MT8820C	6201240341	---	---

1.3 Test Setup Chart

Test Setup Diagram



1.4 The Equipment List

Test Item	Radiated Emission above 1GHz				
Test Site	966 chamber1 / (03CH01-WS)				
Instrument	**Manufacturer**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
3m semi-anechoic chamber	CHAMPRO	SAC-03	03CH01-WS	Jan. 04, 2013	Jan. 03, 2014
Spectrum Analyzer	R&S	FSV40	101498	Jan. 24, 2013	Jan. 23, 2014
Receiver	ROHDE&SCHWARZ	ESR3	101658	Jan. 28, 2013	Jan. 27, 2014
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jan. 11, 2013	Jan. 10, 2014
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Feb. 18, 2013	Feb. 17, 2014
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Jan. 14, 2013	Jan. 13, 2014
Amplifier	Burgeon	BPA-530	100219	Nov. 28, 2012	Nov. 27, 2013
Amplifier	Agilent	83017A	MY39501308	Dec. 18, 2012	Dec. 17, 2013
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16014/4	Dec. 25, 2012	Dec. 24, 2013
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Dec. 25, 2012	Dec. 24, 2013
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16139/4	Dec. 25, 2012	Dec. 24, 2013
RF Cable-R03m	Woken	CFD400NL-LW	CFD400NL-001	Dec. 25, 2012	Dec. 24, 2013
RF Cable-R10m	Woken	CFD400NL-LW	CFD400NL-002	Dec. 25, 2012	Dec. 24, 2013
control	EM Electronics	EM1000	60612	N/A	N/A
Note: Calibration Interval of instruments listed above is one year.					

Loop Antenna	R&S	HFH2-Z2	100330	Nov. 15, 2012	Nov. 14, 2014
Amplifier	MITEQ	AMF-6F-260400	9121372	Apr. 19, 2013	Apr. 18, 2015
Note: Calibration Interval of instruments listed above is two year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV 40	101063	Feb. 18, 2013	Feb. 17, 2014
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GCT-225-40-SP-SD	MAF1212-002	Nov. 29, 2012	Nov. 28, 2013
Power Meter	Anritsu	ML2495A	1241002	Oct. 15, 2012	Oct. 14, 2013
Power Sensor	Anritsu	MA2411B	1027366	Oct. 24, 2012	Oct. 23, 2013
Signal Generator	R&S	SMB100A	175727	Jan. 14, 2013	Jan. 13, 2014
Radio Communication Analyzer	Anritsu	MT8820C	6201240341	Mar. 13, 2013	Mar. 12, 2014
Wideband Radio Communication Tester	R&S	CMW500	106070	Jan. 29, 2013	Jan. 28, 2014
Bluetooth Tester	R&S	CBT	100959	Jan. 09, 2013	Jan. 08, 2014
MXG-B RF Vector Signal Generator	Agilent	N5182B	MY53050081	Apr. 19, 2013	Apr. 18, 2014
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 27 Subpart L
FCC Part 2
ANSI C63.43-2003
ANSI / TIA / EIA-603-C -2004
971168 D01 Power Meas License Digital Systems v02r01

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	±39.332 Hz
Conducted power	±0.552 dB
Frequency error	±39.332 Hz
Temperature	±0.3 °C
Conducted emission	±2.946 dB
AC conducted emission	±2.43 dB
Radiated emission	±2.49 dB

2 Test Configuration

2.1 Testing Condition and Location Information

Test Item	Test Site	Ambient Condition	Tested By
RF conducted	TH01-WS	24°C / 63%	Brad Wu
Radiated Emissions	03CH01-WS	25°C / 65%	Aska Huang

- FCC site registration No.: 657002
- IC site registration No.: 10807A-1

2.2 The Worst Test Modes and Channel Details

Test item	Channel Bandwidth	Test Channel	Modulation	Size / Offset
Radiated Emissions (above 1GHz)	1.4 MHz 3 MHz 5 MHz 10 MHz 15 MHz 20 MHz	19957 / 20175 / 20393 19965 / 20175 / 20385 19975 / 20175 / 20375 20000 / 20175 / 20350 20025 / 20175 / 20325 20050 / 20175 / 20300	QPSK QPSK QPSK QPSK QPSK QPSK	1 / 0 1 / 14 1 / 24 1 / 0 1 / 0 1 / 0
Radiated Emissions (below 1GHz)	1.4 MHz 3 MHz 5 MHz 10 MHz 15 MHz 20 MHz	19957 20175 20175 20350 20325 20300	QPSK QPSK QPSK QPSK QPSK QPSK	1 / 0 1 / 14 1 / 24 1 / 0 1 / 0 1 / 0
Equivalent Isotropically Radiated Power Conducted Emissions	1.4 MHz 3 MHz 5 MHz 10 MHz 15 MHz 20 MHz	19957 / 20175 / 20393 19965 / 20175 / 20385 19975 / 20175 / 20375 20000 / 20175 / 20350 20025 / 20175 / 20325 20050 / 20175 / 20300	QPSK / 16QAM QPSK / 16QAM QPSK / 16QAM QPSK / 16QAM QPSK / 16QAM QPSK / 16QAM	1 / 0 1 / 14 1 / 24 1 / 0 1 / 0 1 / 0
Band Edge	1.4 MHz 3 MHz 5 MHz 10 MHz 15 MHz 20 MHz	19957 20393 19965 20385 19975 20375 20000 20350 20025 20325 20050 20300	QPSK / 16QAM QPSK / 16QAM QPSK / 16QAM QPSK / 16QAM QPSK / 16QAM QPSK / 16QAM	Note 2
Occupied Bandwidth Peak to Average Ratio	1.4 MHz 3 MHz 5 MHz 10 MHz 15 MHz 20 MHz	19957 / 20175 / 20393 19965 / 20175 / 20385 19975 / 20175 / 20375 20000 / 20175 / 20350 20025 / 20175 / 20325 20050 / 20175 / 20300	QPSK / 16QAM QPSK / 16QAM QPSK / 16QAM QPSK / 16QAM QPSK / 16QAM QPSK / 16QAM	6 / 0 15 / 0 25 / 0 50 / 0 75 / 0 100 / 0
Frequency Stability	1.4 MHz 3 MHz 5 MHz 10 MHz 15 MHz 20 MHz	20175 20175 20175 20175 20175 20175	QPSK QPSK QPSK QPSK QPSK QPSK	6 / 0 15 / 0 25 / 0 50 / 0 75 / 0 100 / 0

NOTE:
1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **Y-plane** results were found as the worst case and were shown in this report.
2. 1 RB allocated at the lower edge of a channel , 100% RB allocation for low channel
   1 RB allocated at the upper edge of a channel , 100% RB allocation for high channel
   Please refer to band edge test result section for detail test condition

3 Test Results

3.1 Equivalent Isotropically Radiated Power

3.1.1 Limit of Equivalent Isotropically Radiated Power

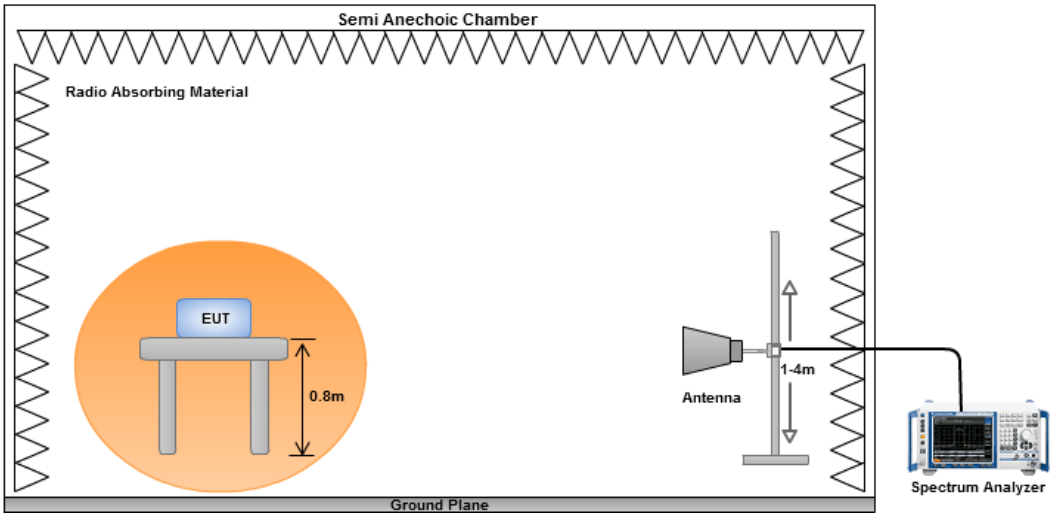
Fixed, mobile, and portable (hand-held) stations operating in the 1710–1755 MHz band are limited to 1 Watt EIRP.

3.1.2 Test Procedures

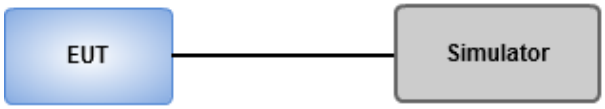
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at a height of 0.8 m test table above the ground plane.
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.

3.1.3 Test Setup

Equivalent Isotropically Radiated Power Measurement



Conducted Power Measurement



3.1.4 Test Results

Conducted Output Power (dBm)

Band			LTE Band 4		
BW: 1.4 MHz	Channel		19957	20175	20393
Modulation	Frequency (MHz)		1710.7	1732.5	1754.3
	RB	RB Offset	Conducted Output Power (dBm)		
QPSK	1	0	22.77	22.58	22.37
	1	5	22.67	22.49	22.32
	3	2	22.58	22.55	22.11
	6	0	21.59	21.68	21.19
16QAM	1	0	21.77	21.91	21.40
	1	5	21.29	21.65	21.54
	3	2	21.53	21.67	21.31
	6	0	20.53	20.71	20.32

Band			LTE Band 4		
BW: 3 MHz	Channel		19965	20175	20385
Modulation	Frequency (MHz)		1711.5	1732.5	1753.5
	RB	RB Offset	Conducted Output Power (dBm)		
QPSK	1	0	22.77	22.83	22.47
	1	14	22.44	22.85	22.24
	8	4	21.55	21.65	21.26
	15	0	21.58	21.71	21.26
16QAM	1	0	21.98	21.95	21.79
	1	14	21.77	21.89	21.69
	8	4	20.73	20.77	20.39
	15	0	20.68	20.78	20.34

Band			LTE Band 4		
BW: 5 MHz	Channel		19975	20175	20375
Modulation	Frequency (MHz)		1712.5	1732.5	1752.5
	RB	RB Offset	Conducted Output Power (dBm)		
QPSK	1	0	22.76	22.74	22.52
	1	24	22.42	22.88	22.17
	12	6	21.36	21.57	21.30
	25	0	21.42	21.70	21.21
16QAM	1	0	21.93	21.95	21.76
	1	24	21.57	21.97	21.48
	12	6	20.48	20.70	20.37
	25	0	20.53	20.81	20.36

Band			LTE Band 4		
BW: 10 MHz	Channel		20000	20175	20350
Modulation	Frequency (MHz)		1715	1732.5	1750
	RB	RB Offset	Conducted Output Power (dBm)		
QPSK	1	0	22.51	22.53	22.87
	1	49	22.19	22.51	21.99
	25	12	21.14	21.56	21.32
	50	0	21.20	21.64	21.33
16QAM	1	0	21.73	21.75	21.98
	1	49	21.45	21.84	21.26
	25	12	20.41	20.70	20.48
	50	0	20.33	20.71	20.47

Band			LTE Band 4		
BW: 15 MHz	Channel		20025	20175	20325
Modulation	Frequency (MHz)		1717.5	1732.5	1747.5
	RB	RB Offset	Conducted Output Power (dBm)		
QPSK	1	0	22.54	22.50	22.79
	1	74	22.46	22.78	21.91
	36	18	21.21	21.62	21.55
	75	0	21.28	21.62	21.54
16QAM	1	0	21.85	21.79	21.96
	1	74	21.76	21.88	21.21
	36	18	20.33	20.73	20.69
	75	0	20.38	20.73	20.71

Band			LTE Band 4		
BW: 20 MHz	Channel		20050	20175	20300
Modulation	Frequency (MHz)		1720	1732.5	1745
	RB	RB Offset	Conducted Output Power (dBm)		
QPSK	1	0	22.53	22.41	22.98
	1	99	22.63	22.71	21.86
	50	25	21.28	21.64	21.76
	100	0	21.40	21.59	21.69
16QAM	1	0	21.88	21.75	21.99
	1	99	21.77	21.89	21.24
	50	25	20.39	20.76	20.87
	100	0	20.47	20.71	20.82

EIRP (dBm)

Mode	BW: 1.4 MHz / QPSK						
Channel	Frequency (MHz)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
19957	1710.7	-13.39	19.98	4.95	24.93	30	-5.07
20175	1732.5	-13.25	20.45	4.89	25.34	30	-4.66
20393	1754.3	-13.01	21.00	4.84	25.84	30	-4.16

Mode	BW: 1.4 MHz / 16QAM						
Channel	Frequency (MHz)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
19957	1710.7	-14.57	18.80	4.95	23.75	30	-6.25
20175	1732.5	-14.47	19.23	4.89	24.12	30	-5.88
20393	1754.3	-15.27	18.74	4.84	23.58	30	-6.42

Mode	BW: 3 MHz / QPSK						
Channel	Frequency (MHz)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
19965	1711.5	-12.57	20.80	4.95	25.75	30	-4.25
20175	1732.5	-13.31	20.39	4.89	25.28	30	-4.72
20385	1753.5	-13.24	20.77	4.84	25.61	30	-4.39

Mode	BW: 3 MHz / 16QAM						
Channel	Frequency (MHz)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
19965	1711.5	-13.80	19.57	4.95	24.52	30	-5.48
20175	1732.5	-14.51	19.19	4.89	24.08	30	-5.92
20385	1753.5	-14.13	19.88	4.84	24.72	30	-5.28

Mode	BW: 5 MHz / QPSK						
Channel	Frequency (MHz)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
19975	1712.5	-12.29	21.11	4.94	26.05	30	-3.95
20175	1732.5	-12.82	20.88	4.89	25.77	30	-4.23
20375	1752.5	-13.27	20.72	4.84	25.56	30	-4.44

Mode	BW: 5 MHz / 16QAM						
Channel	Frequency (MHz)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
19975	1712.5	-13.42	19.98	4.94	24.92	30	-5.08
20175	1732.5	-14.11	19.59	4.89	24.48	30	-5.52
20375	1752.5	-14.52	19.47	4.84	24.31	30	-5.69

Mode	BW: 10 MHz / QPSK						
Channel	Frequency (MHz)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
20000	1715.0	-12.33	21.07	4.94	26.01	30	-3.99
20175	1732.5	-12.95	20.75	4.89	25.64	30	-4.36
20350	1750.0	-13.22	20.76	4.85	25.61	30	-4.39

Mode	BW: 10 MHz / 16QAM						
Channel	Frequency (MHz)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
20000	1715.0	-13.47	19.93	4.94	24.87	30	-5.13
20175	1732.5	-14.07	19.63	4.89	24.52	30	-5.48
20350	1750.0	-14.55	19.44	4.84	24.28	30	-5.72

Mode	BW: 15 MHz / QPSK						
Channel	Frequency (MHz)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
20025	1717.5	-12.45	21.05	4.93	25.98	30	-4.02
20175	1732.5	-13.06	20.64	4.89	25.53	30	-4.47
20325	1747.5	-13.38	20.51	4.85	25.36	30	-4.64

Mode	BW: 15 MHz / 16QAM						
Channel	Frequency (MHz)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
20025	1717.5	-13.67	19.82	4.94	24.76	30	-5.24
20175	1732.5	-14.28	19.42	4.89	24.31	30	-5.69
20325	1747.5	-14.55	19.35	4.84	24.19	30	-5.81

Mode	BW: 20 MHz / QPSK						
Channel	Frequency (MHz)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
20050	1720.0	-12.62	20.89	4.92	25.81	30	-4.19
20175	1732.5	-13.27	20.43	4.89	25.32	30	-4.68
20300	1745.0	-13.45	20.43	4.86	25.29	30	-4.71

Mode	BW: 20 MHz / 16QAM						
Channel	Frequency (MHz)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
20050	1720.0	-13.90	19.59	4.94	24.53	30	-5.47
20175	1732.5	-14.57	19.13	4.89	24.02	30	-5.98
20300	1745.0	-14.79	19.11	4.84	23.95	30	-6.05

3.2 Radiated Emissions

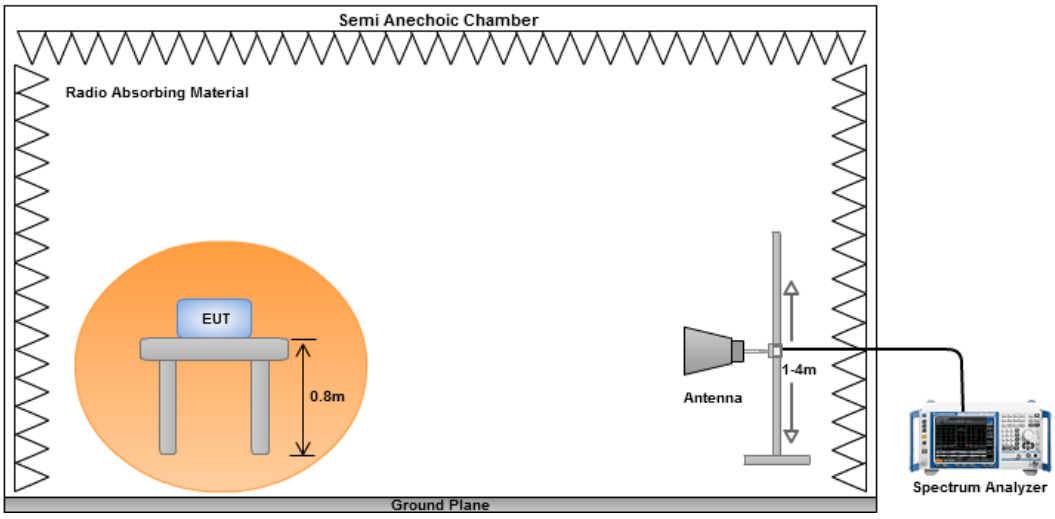
3.2.1 Limit of Radiated Emissions

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 -13 dBm.

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 andfacilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT isplaced at a height of 0.8 m test table above the ground plane.
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes ofpolarization. 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 and4 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



3.2.4 Test Result of Radiated Emissions below 1GHz

Mode	BW: 1.4 MHz			Channel	19957		
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)
94.92	H	-57.77	-13	-44.77	-48.61	-58.23	0.46
232.73	H	-52.86	-13	-39.86	-42.88	-58.58	5.72
362.71	H	-50.47	-13	-37.47	-43.57	-56.01	5.54
527.61	H	-56.75	-13	-43.75	-53.35	-61.80	5.05
700.27	H	-51.75	-13	-38.75	-50.36	-56.02	4.27
812.79	H	-54.55	-13	-41.55	-54.94	-58.41	3.86
64.92	V	-57.55	-13	-44.55	-49.59	-52.21	-5.34
98.87	V	-55.46	-13	-42.46	-46.19	-55.97	0.51
230.79	V	-55.64	-13	-42.64	-48.37	-61.37	5.73
362.71	V	-51.55	-13	-38.55	-46.57	-57.09	5.54
429.64	V	-53.75	-13	-40.75	-50.92	-58.97	5.22
800.18	V	-47.68	-13	-34.68	-49.32	-51.52	3.84

Mode	BW: 3 MHz			Channel	20175		
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)
94.88	H	-57.68	-13	-44.68	-48.52	-58.14	0.46
232.68	H	-52.94	-13	-39.94	-42.96	-58.66	5.72
362.65	H	-50.53	-13	-37.53	-43.63	-56.07	5.54
527.65	H	-56.89	-13	-43.89	-53.49	-61.94	5.05
700.36	H	-51.51	-13	-38.51	-50.12	-55.78	4.27
812.85	H	-54.42	-13	-41.42	-54.81	-58.28	3.86
64.96	V	-57.18	-13	-44.18	-49.22	-51.84	-5.34
98.93	V	-55.63	-13	-42.63	-46.36	-56.14	0.51
230.71	V	-55.79	-13	-42.79	-48.52	-61.52	5.73
362.61	V	-51.19	-13	-38.19	-46.21	-56.73	5.54
429.69	V	-53.64	-13	-40.64	-50.81	-58.86	5.22
800.21	V	-47.59	-13	-34.59	-49.23	-51.43	3.84

Mode	BW: 5 MHz			Channel	20175		
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)
94.92	H	-56.38	-13	-43.38	-47.22	-56.84	0.46
232.73	H	-51.68	-13	-38.68	-41.7	-57.40	5.72
362.71	H	-49.95	-13	-36.95	-43.05	-55.49	5.54
527.61	H	-56.38	-13	-43.38	-52.98	-61.43	5.05
700.27	H	-51.37	-13	-38.37	-49.98	-55.64	4.27
812.79	H	-52.54	-13	-39.54	-52.93	-56.40	3.86
64.92	V	-57.48	-13	-44.48	-49.52	-52.14	-5.34
98.87	V	-54.95	-13	-41.95	-45.68	-55.46	0.51
230.79	V	-55.12	-13	-42.12	-47.85	-60.85	5.73
362.71	V	-51.41	-13	-38.41	-46.43	-56.95	5.54
429.64	V	-52.39	-13	-39.39	-49.56	-57.61	5.22
800.18	V	-46.38	-13	-33.38	-48.02	-50.22	3.84

Mode	BW: 10 MHz			Channel	20350		
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)
94.83	H	-56.26	-13	-43.26	-47.1	-56.72	0.46
232.77	H	-51.50	-13	-38.50	-41.52	-57.22	5.72
362.75	H	-50.19	-13	-37.19	-43.29	-55.73	5.54
527.66	H	-56.04	-13	-43.04	-52.64	-61.09	5.05
700.38	H	-51.00	-13	-38.00	-49.61	-55.27	4.27
812.73	H	-52.19	-13	-39.19	-52.58	-56.05	3.86
64.82	V	-57.08	-13	-44.08	-49.12	-51.74	-5.34
98.81	V	-54.38	-13	-41.38	-45.11	-54.89	0.51
230.73	V	-54.79	-13	-41.79	-47.52	-60.52	5.73
362.65	V	-51.18	-13	-38.18	-46.2	-56.72	5.54
429.69	V	-52.02	-13	-39.02	-49.19	-57.24	5.22
800.25	V	-46.72	-13	-33.72	-48.36	-50.56	3.84

Mode	BW: 15 MHz			Channel	20325		
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)
94.82	H	-56.58	-13	-43.58	-47.42	-57.04	0.46
232.66	H	-51.80	-13	-38.80	-41.82	-57.52	5.72
362.59	H	-50.41	-13	-37.41	-43.51	-55.95	5.54
527.58	H	-57.06	-13	-44.06	-53.66	-62.11	5.05
700.25	H	-51.14	-13	-38.14	-49.75	-55.41	4.27
812.72	H	-53.93	-13	-40.93	-54.32	-57.79	3.86
64.81	V	-55.65	-13	-42.65	-47.69	-50.31	-5.34
98.78	V	-55.85	-13	-42.85	-46.58	-56.36	0.51
230.68	V	-54.76	-13	-41.76	-47.49	-60.49	5.73
362.63	V	-50.79	-13	-37.79	-45.81	-56.33	5.54
429.58	V	-53.45	-13	-40.45	-50.62	-58.67	5.22
800.12	V	-47.38	-13	-34.38	-49.02	-51.22	3.84

Mode	BW: 20 MHz			Channel	20300		
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)
94.92	H	-56.28	-13	-43.28	-47.12	-56.74	0.46
232.73	H	-51.59	-13	-38.59	-41.61	-57.31	5.72
362.71	H	-50.62	-13	-37.62	-43.72	-56.16	5.54
527.61	H	-56.81	-13	-43.81	-53.41	-61.86	5.05
700.27	H	-50.96	-13	-37.96	-49.57	-55.23	4.27
812.79	H	-53.68	-13	-40.68	-54.07	-57.54	3.86
64.92	V	-55.49	-13	-42.49	-47.53	-50.15	-5.34
98.87	V	-55.62	-13	-42.62	-46.35	-56.13	0.51
230.79	V	-54.38	-13	-41.38	-47.11	-60.11	5.73
362.71	V	-50.94	-13	-37.94	-45.96	-56.48	5.54
429.64	V	-53.82	-13	-40.82	-50.99	-59.04	5.22
800.18	V	-47.55	-13	-34.55	-49.19	-51.39	3.84

3.2.5 Test Result of Radiated Emissions above 1GHz

Mode	BW: 1.4 MHz			Channel	19957		
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)
3420.50	H	-36.41	-13	-23.41	-47.32	-42.03	5.62
5130.75	H	-30.28	-13	-17.28	-46.91	-35.31	5.03
6841.00	H	-37.41	-13	-24.41	-58.71	-40.44	3.03
11971.75	H	-33.72	-13	-20.72	-57.63	-37.13	3.41
3420.50	V	-28.16	-13	-15.16	-40.19	-33.78	5.62
5130.75	V	-29.90	-13	-16.90	-45.56	-34.93	5.03
6841.00	V	-24.61	-13	-11.61	-43.8	-27.64	3.03
11971.75	V	-29.77	-13	-16.77	-52.85	-33.18	3.41

Mode	BW: 1.4 MHz			Channel	20175		
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)
3464.10	H	-39.79	-13	-26.79	-50.82	-45.37	5.58
5196.15	H	-32.39	-13	-19.39	-49.1	-37.36	4.97
6928.20	H	-44.07	-13	-31.07	-65.21	-47.05	2.98
12124.35	H	-31.16	-13	-18.16	-55.57	-34.67	3.51
3464.10	V	-31.73	-13	-18.73	-43.71	-37.31	5.58
5196.15	V	-30.20	-13	-17.20	-46.06	-35.17	4.97
6928.20	V	-32.38	-13	-19.38	-51.51	-35.36	2.98
12124.35	V	-26.85	-13	-13.85	-50.17	-30.36	3.51

Mode	BW: 1.4 MHz			Channel	20393		
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)
3507.70	H	-36.71	-13	-23.71	-47.85	-42.25	5.54
5261.55	H	-29.06	-13	-16.06	-46.28	-33.97	4.91
7015.40	H	-37.47	-13	-24.47	-58.54	-40.39	2.92
12276.95	H	-32.98	-13	-19.98	-57.99	-36.57	3.59
3507.70	V	-29.46	-13	-16.46	-41.37	-35.00	5.54
5261.55	V	-29.83	-13	-16.83	-45.84	-34.74	4.91
7015.40	V	-23.56	-13	-10.56	-42.7	-26.48	2.92
12276.95	V	-28.72	-13	-15.72	-52.34	-32.31	3.59

Mode	BW: 3 MHz			Channel	19965		
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)
3425.52	H	-36.21	-13	-23.21	-47.12	-41.83	5.62
5138.28	H	-30.03	-13	-17.03	-46.66	-35.06	5.03
6851.04	H	-37.21	-13	-24.21	-58.51	-40.24	3.03
11989.32	H	-33.51	-13	-20.51	-57.42	-36.94	3.43
3425.52	V	-28.23	-13	-15.23	-40.26	-33.85	5.62
5138.28	V	-29.75	-13	-16.75	-45.41	-34.78	5.03
6851.04	V	-24.44	-13	-11.44	-43.63	-27.47	3.03
11989.32	V	-29.58	-13	-16.58	-52.66	-33.01	3.43

Mode	BW: 3 MHz			Channel	20175		
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)
3467.52	H	-39.48	-13	-26.48	-50.51	-45.06	5.58
5201.28	H	-32.74	-13	-19.74	-49.45	-37.71	4.97
6935.04	H	-43.88	-13	-30.88	-65.02	-46.85	2.97
12136.32	H	-30.75	-13	-17.75	-55.16	-34.27	3.52
3467.52	V	-31.53	-13	-18.53	-43.51	-37.11	5.58
5201.28	V	-30.36	-13	-17.36	-46.22	-35.33	4.97
6935.04	V	-32.19	-13	-19.19	-51.32	-35.16	2.97
12136.32	V	-26.97	-13	-13.97	-50.29	-30.49	3.52

Mode	BW: 3 MHz			Channel	20385		
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)
3509.52	H	-36.38	-13	-23.38	-47.52	-41.92	5.54
5264.28	H	-28.84	-13	-15.84	-46.06	-33.75	4.91
7019.04	H	-37.34	-13	-24.34	-58.41	-40.25	2.91
12283.32	H	-32.55	-13	-19.55	-57.56	-36.15	3.60
3509.52	V	-29.10	-13	-16.10	-41.01	-34.64	5.54
5264.28	V	-29.42	-13	-16.42	-45.43	-34.33	4.91
7019.04	V	-23.35	-13	-10.35	-42.49	-26.26	2.91
12283.32	V	-28.44	-13	-15.44	-52.06	-32.04	3.60

Mode	BW: 5 MHz			Channel	19975		
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)
3429.30	H	-36.43	-13	-23.43	-47.36	-42.04	5.61
5144.10	H	-30.45	-13	-17.45	-47.1	-35.46	5.01
6858.80	H	-36.54	-13	-23.54	-57.81	-39.56	3.02
12002.70	H	-36.52	-13	-23.52	-60.44	-39.97	3.45
3429.30	V	-27.41	-13	-14.41	-39.43	-33.02	5.61
5144.10	V	-29.41	-13	-16.41	-45.11	-34.42	5.01
6858.80	V	-24.99	-13	-11.99	-44.17	-28.01	3.02
12002.70	V	-30.47	-13	-17.47	-53.56	-33.92	3.45

Mode	BW: 5 MHz			Channel	20175		
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)
3469.20	H	-36.54	-13	-23.54	-47.58	-42.11	5.57
5204.10	H	-29.62	-13	-16.62	-46.36	-34.59	4.97
6938.57	H	-36.01	-13	-23.01	-57.13	-38.98	2.97
12142.00	H	-32.99	-13	-19.99	-57.45	-36.51	3.52
3469.20	V	-27.17	-13	-14.17	-39.14	-32.74	5.57
5204.10	V	-29.50	-13	-16.50	-45.37	-34.47	4.97
6938.57	V	-25.49	-13	-12.49	-44.61	-28.46	2.97
12142.00	V	-27.58	-13	-14.58	-50.93	-31.10	3.52

Mode	BW: 5 MHz			Channel	20375		
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)
3509.40	H	-36.70	-13	-23.70	-47.84	-42.24	5.54
5264.10	H	-30.83	-13	-17.83	-48.05	-35.74	4.91
7018.60	H	-36.31	-13	-23.31	-57.38	-39.22	2.91
12282.70	H	-34.26	-13	-21.26	-59.27	-37.86	3.60
3509.40	V	-29.84	-13	-16.84	-41.75	-35.38	5.54
5264.10	V	-30.66	-13	-17.66	-46.67	-35.57	4.91
7018.60	V	-24.12	-13	-11.12	-43.26	-27.03	2.91
12282.70	V	-30.32	-13	-17.32	-53.94	-33.92	3.60

Mode	BW: 10 MHz			Channel	20000		
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)
3421.18	H	-36.28	-13	-23.28	-47.21	-41.90	5.62
5131.77	H	-30.86	-13	-17.86	-47.51	-35.88	5.02
6842.36	H	-36.01	-13	-23.01	-57.28	-39.04	3.03
11974.13	H	-36.19	-13	-23.19	-60.11	-39.60	3.41
3421.18	V	-27.13	-13	-14.13	-39.15	-32.75	5.62
5131.77	V	-29.82	-13	-16.82	-45.52	-34.84	5.02
6842.36	V	-25.18	-13	-12.18	-44.36	-28.21	3.03
11974.13	V	-30.15	-13	-17.15	-53.24	-33.56	3.41

Mode	BW: 10 MHz			Channel	20175		
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)
3456.18	H	-36.18	-13	-23.18	-47.22	-41.77	5.59
5184.27	H	-29.41	-13	-16.41	-46.15	-34.39	4.98
6912.36	H	-36.24	-13	-23.24	-57.36	-39.23	2.99
12096.63	H	-32.73	-13	-19.73	-57.19	-36.23	3.50
3456.18	V	-27.31	-13	-14.31	-39.28	-32.90	5.59
5184.27	V	-29.28	-13	-16.28	-45.15	-34.26	4.98
6912.36	V	-25.30	-13	-12.30	-44.42	-28.29	2.99
12096.63	V	-27.26	-13	-14.26	-50.61	-30.76	3.50

Mode	BW: 10 MHz			Channel	20350		
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)
3491.18	H	-36.38	-13	-23.38	-47.52	-41.93	5.55
5236.77	H	-31.14	-13	-18.14	-48.36	-36.08	4.94
6982.36	H	-36.56	-13	-23.56	-57.63	-39.50	2.94
12219.13	H	-34.44	-13	-21.44	-59.45	-38.00	3.56
3491.18	V	-30.01	-13	-17.01	-41.92	-35.56	5.55
5236.77	V	-30.31	-13	-17.31	-46.32	-35.25	4.94
6982.36	V	-27.35	-13	-14.35	-46.49	-30.29	2.94
12219.13	V	-29.99	-13	-16.99	-53.61	-33.55	3.56

Mode	BW: 15 MHz			Channel	20025		
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)
3421.68	H	-39.81	-13	-26.81	-50.81	-45.43	5.62
5132.52	H	-30.67	-13	-17.67	-47.36	-35.69	5.02
6843.36	H	-39.72	-13	-26.72	-60.89	-42.75	3.03
11975.88	H	-30.87	-13	-17.87	-55.18	-34.28	3.41
3421.68	V	-30.35	-13	-17.35	-42.33	-35.97	5.62
5132.52	V	-29.79	-13	-16.79	-45.61	-34.81	5.02
6843.36	V	-31.49	-13	-18.49	-50.63	-34.52	3.03
11975.88	V	-28.30	-13	-15.30	-51.58	-31.71	3.41

Mode	BW: 15 MHz			Channel	20175		
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)
3451.68	H	-38.37	-13	-25.37	-49.44	-43.96	5.59
5177.52	H	-30.48	-13	-17.48	-47.38	-35.47	4.99
6903.36	H	-38.02	-13	-25.02	-59.1	-41.01	2.99
12080.88	H	-30.65	-13	-17.65	-55.29	-34.14	3.49
3451.68	V	-30.80	-13	-17.80	-42.75	-36.39	5.59
5177.52	V	-29.71	-13	-16.71	-45.63	-34.70	4.99
6903.36	V	-31.38	-13	-18.38	-50.49	-34.37	2.99
12080.88	V	-28.27	-13	-15.27	-51.71	-31.76	3.49

Mode	BW: 15 MHz			Channel	20325		
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)
3481.68	H	-39.34	-13	-26.34	-50.48	-44.90	5.56
5222.52	H	-30.43	-13	-17.43	-47.63	-35.38	4.95
6963.36	H	-38.49	-13	-25.49	-59.55	-41.44	2.95
12185.88	H	-30.44	-13	-17.44	-55.43	-33.99	3.55
3481.68	V	-29.44	-13	-16.44	-41.36	-35.00	5.56
5222.52	V	-28.71	-13	-15.71	-44.71	-33.66	4.95
6963.36	V	-32.22	-13	-19.22	-51.35	-35.17	2.95
12185.88	V	-29.07	-13	-16.07	-52.68	-32.62	3.55

Mode	BW: 20 MHz			Channel	20050		
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)
3422.20	H	-39.70	-13	-26.70	-50.7	-45.29	5.59
5133.30	H	-30.36	-13	-17.36	-47.05	-35.34	4.98
6844.40	H	-39.64	-13	-26.64	-60.81	-42.62	2.98
11977.70	H	-31.57	-13	-18.57	-55.88	-35.07	3.50
3422.20	V	-30.18	-13	-17.18	-42.16	-35.77	5.59
5133.30	V	-29.70	-13	-16.70	-45.52	-34.68	4.98
6844.40	V	-31.16	-13	-18.16	-50.3	-34.14	2.98
11977.70	V	-28.19	-13	-15.19	-51.47	-31.69	3.50

Mode	BW: 20 MHz			Channel	20175		
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)
3447.20	H	-38.61	-13	-25.61	-49.68	-44.17	5.56
5170.80	H	-30.74	-13	-17.74	-47.64	-35.69	4.95
6894.40	H	-38.18	-13	-25.18	-59.26	-41.13	2.95
12065.20	H	-30.48	-13	-17.48	-55.12	-34.03	3.55
3447.20	V	-30.63	-13	-17.63	-42.58	-36.19	5.56
5170.80	V	-29.08	-13	-16.08	-45	-34.03	4.95
6894.40	V	-31.63	-13	-18.63	-50.74	-34.58	2.95
12065.20	V	-27.96	-13	-14.96	-51.4	-31.51	3.55

Mode	BW: 20 MHz			Channel	20300		
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)
3472.20	H	-39.20	-13	-26.20	-50.34	-44.74	5.54
5208.30	H	-30.29	-13	-17.29	-47.49	-35.20	4.91
6944.40	H	-38.06	-13	-25.06	-59.12	-40.98	2.92
12152.70	H	-30.27	-13	-17.27	-55.26	-33.86	3.59
3472.20	V	-29.34	-13	-16.34	-41.26	-34.88	5.54
5208.30	V	-28.87	-13	-15.87	-44.87	-33.78	4.91
6944.40	V	-32.35	-13	-19.35	-51.48	-35.27	2.92
12152.70	V	-28.82	-13	-15.82	-52.43	-32.41	3.59

3.3 Conducted Emissions

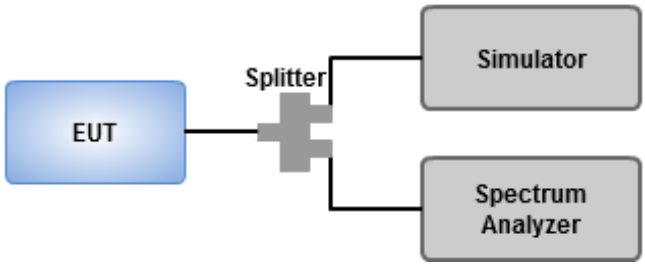
3.3.1 Limit of Conducted Emissions

The power of any emission outside of the authorized operating frequencyranges 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

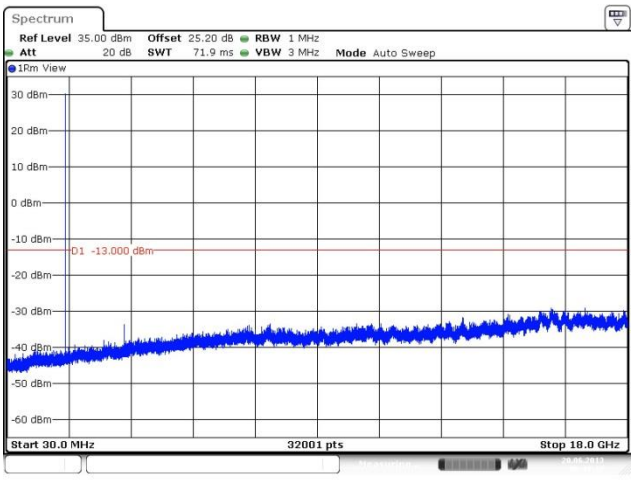
1. Lowest, middle and highest operating channels are tested for this item.
2. Scan frequency range is from 30MHz~18GHz.
3. Set RBW = 1MHz, VBW = 3MHz, detector = rms, sweep time = auto.
4. Record the max trace value and capture the test plot of each sub frequency band.

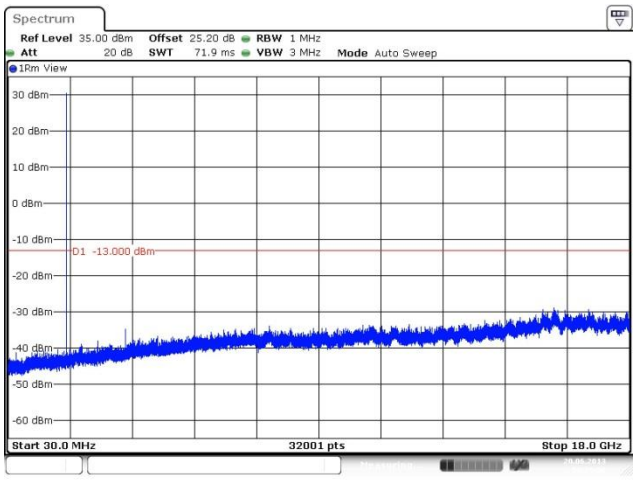
3.3.3 Test Setup

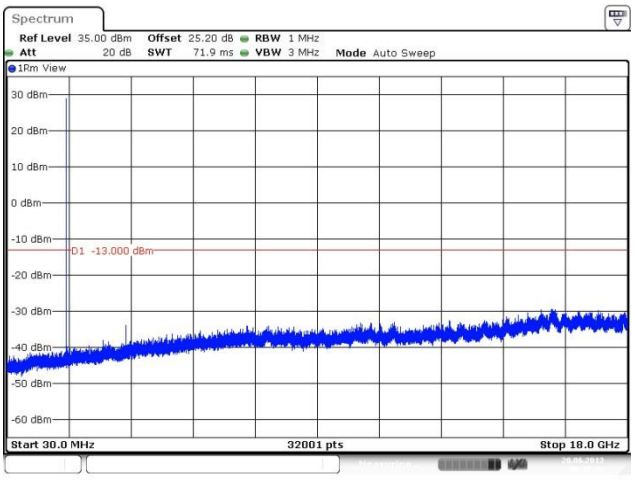


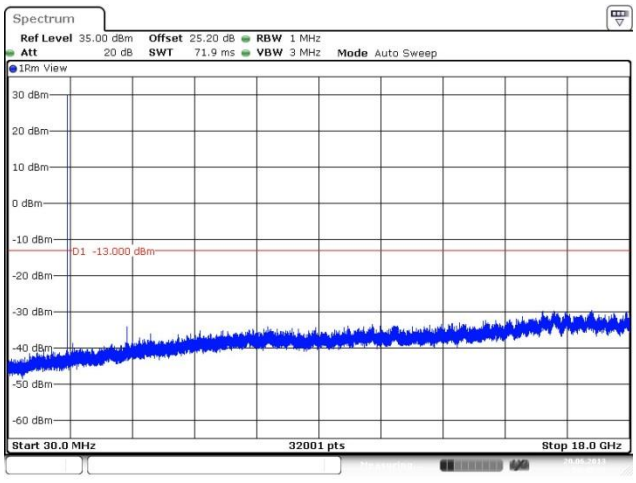
3.3.4 Test Result of Conducted Emissions

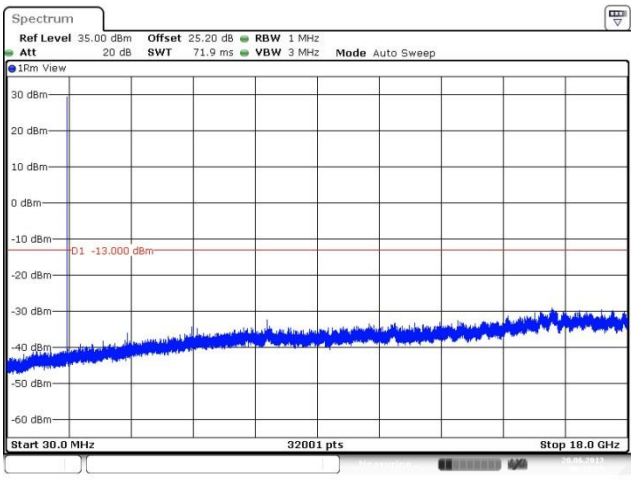
Mode	BW: 1.4 MHz / QPSK	Mode	BW: 1.4 MHz / 16QAM
Channel	Low / Middle / High	Channel	Low / Middle / High

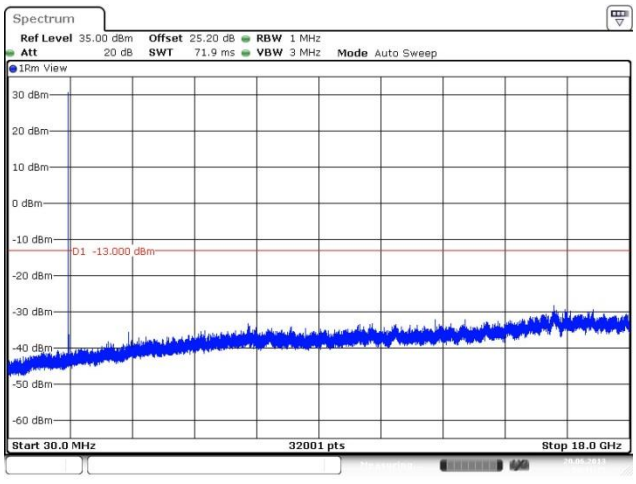




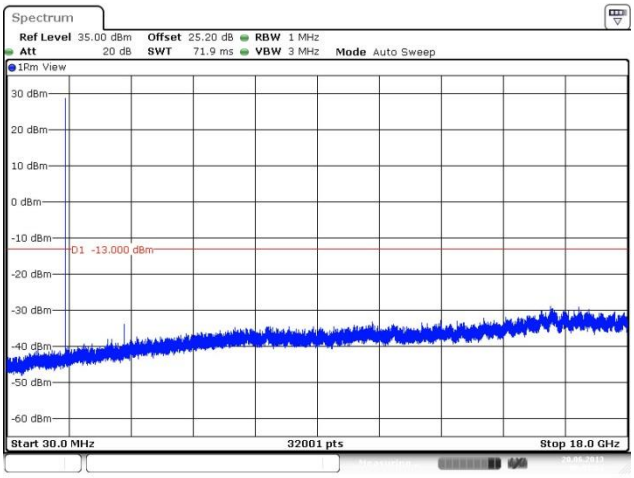


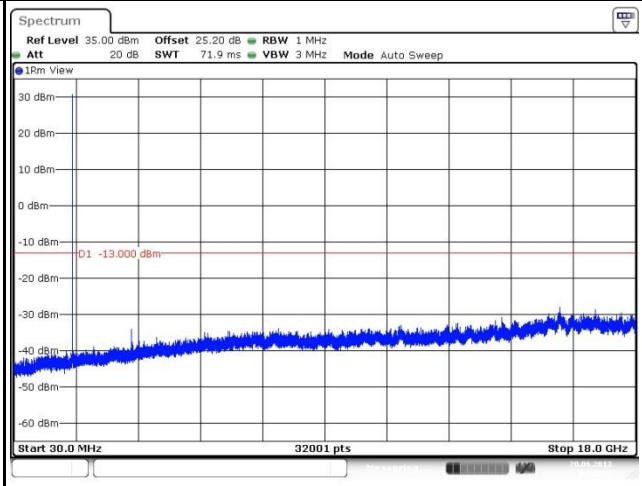


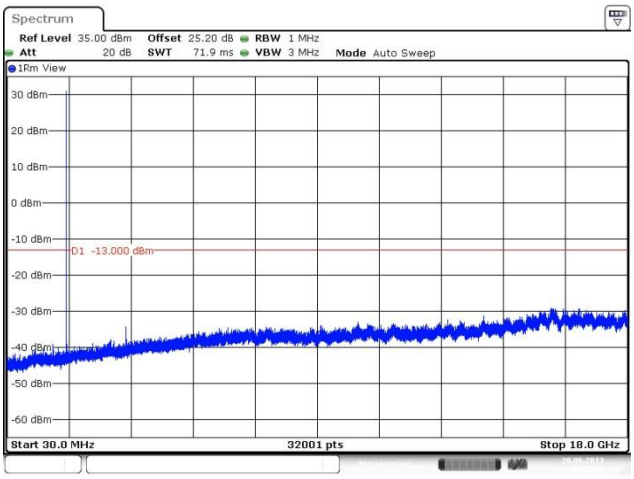


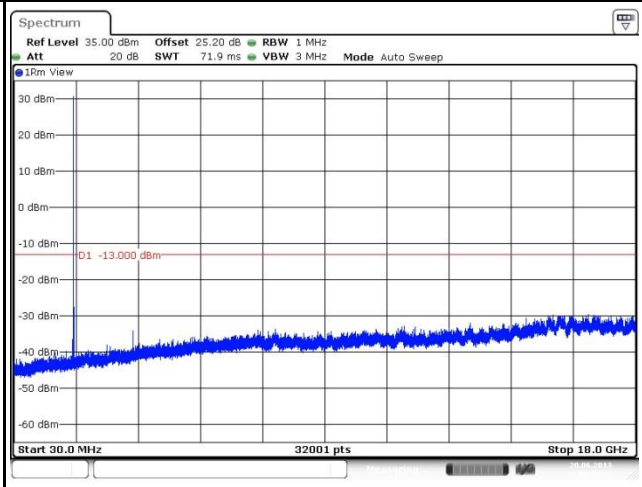


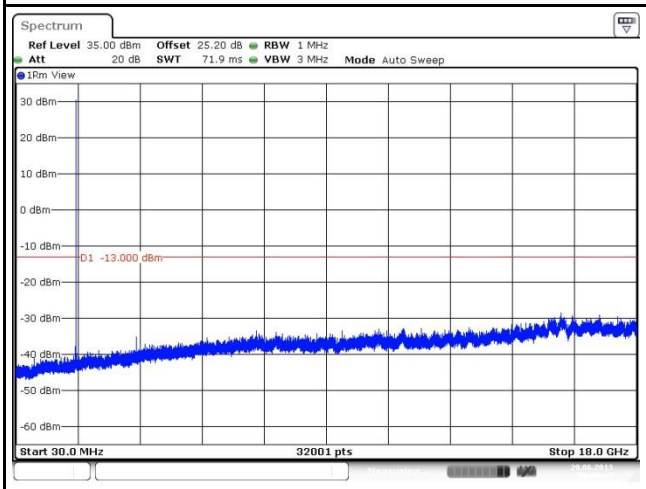
Mode	BW: 3 MHz / QPSK	Mode	BW: 3 MHz / 16QAM
Channel	Low / Middle / High	Channel	Low / Middle / High

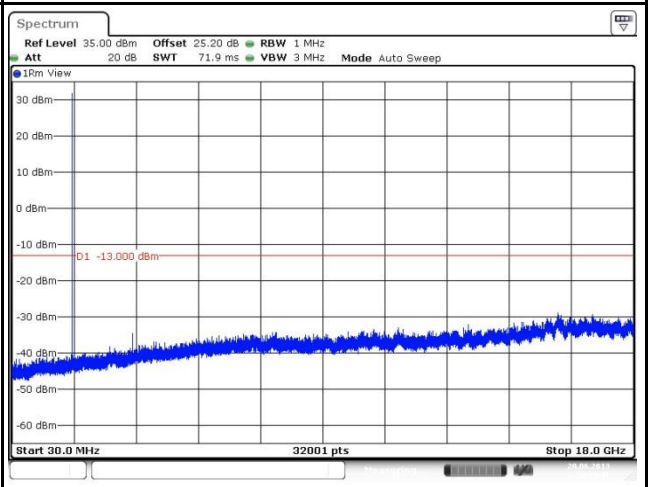




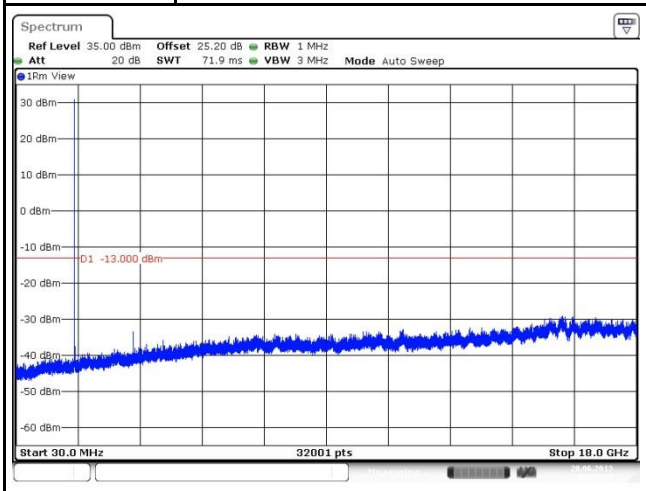


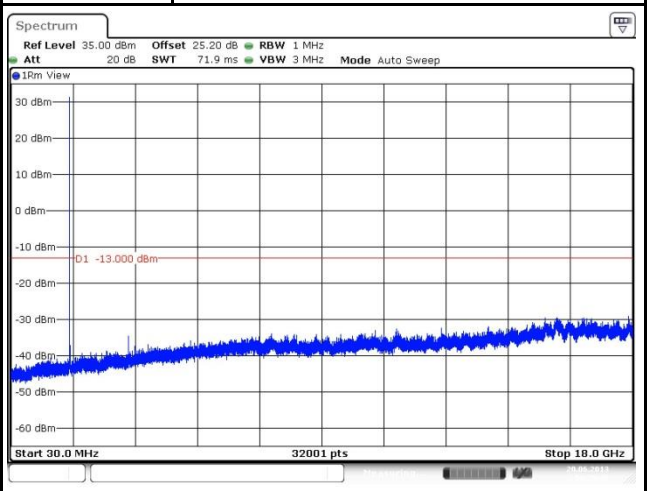


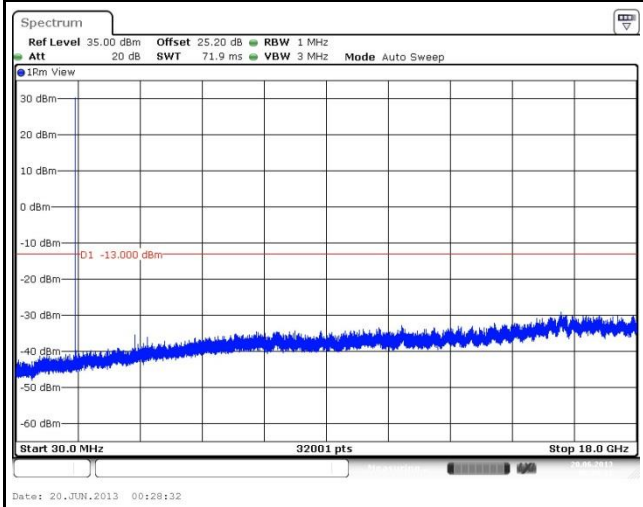


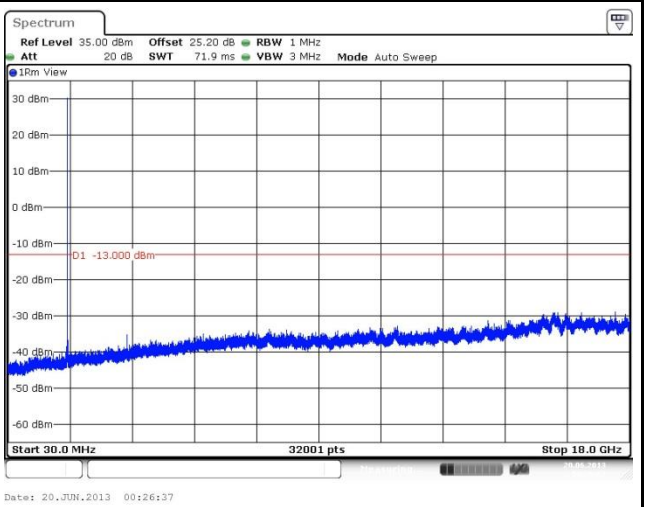


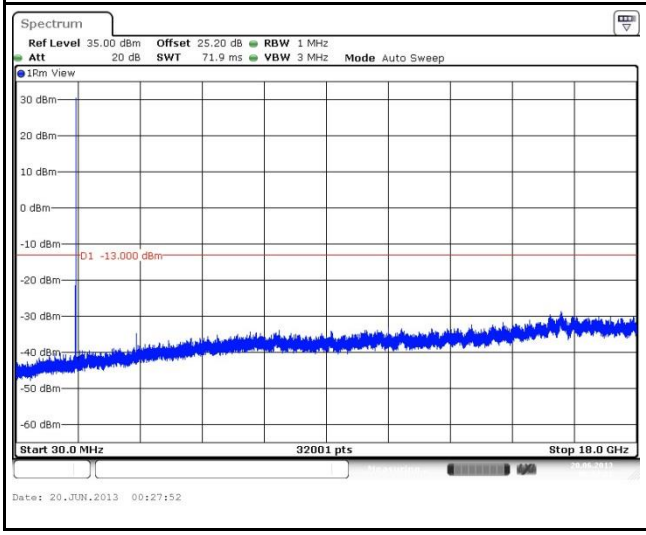
Mode	BW: 5 MHz / QPSK	Mode	BW: 5 MHz / 16QAM
Channel	Low / Middle / High	Channel	Low / Middle / High

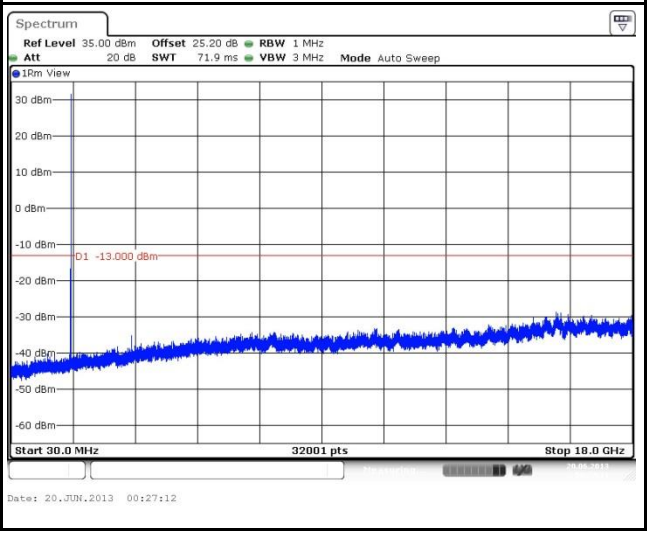




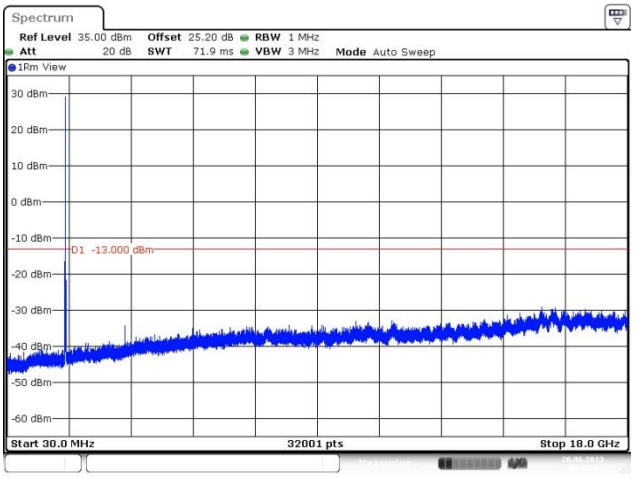


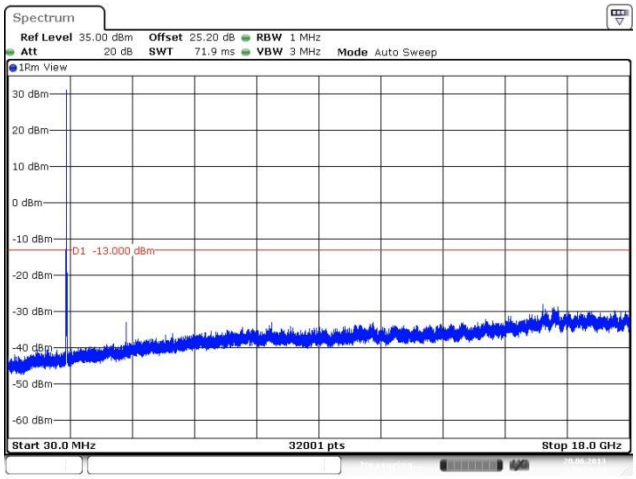


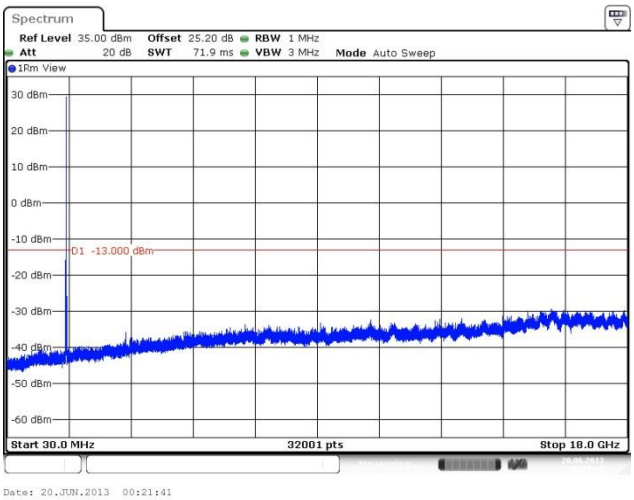


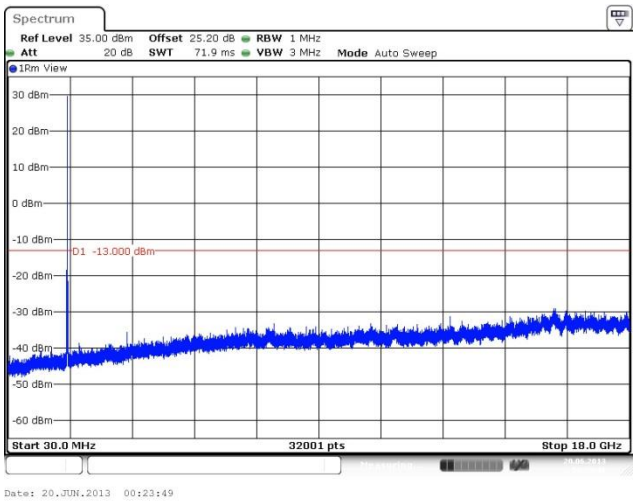


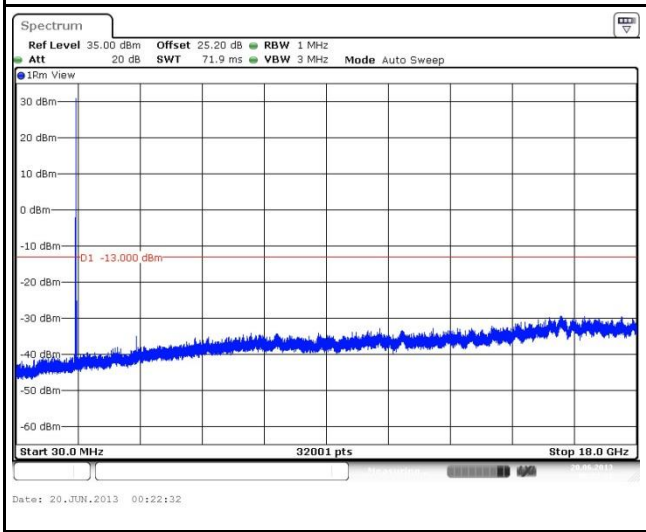
Mode	BW: 10 MHz / QPSK	Mode	BW: 10 MHz / 16QAM
Channel	Low / Middle / High	Channel	Low / Middle / High

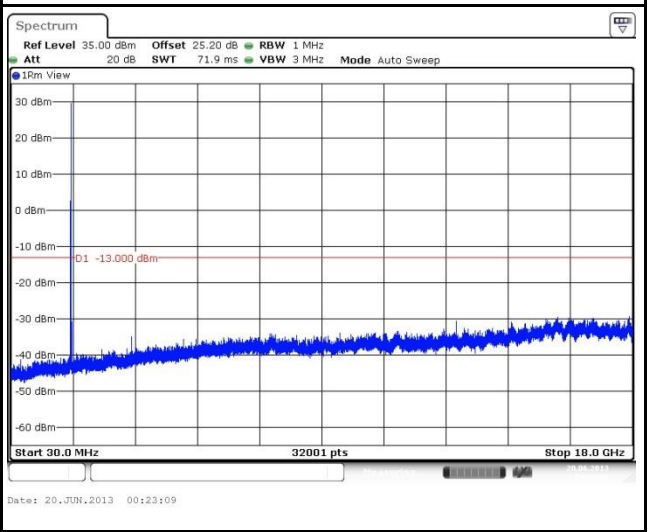




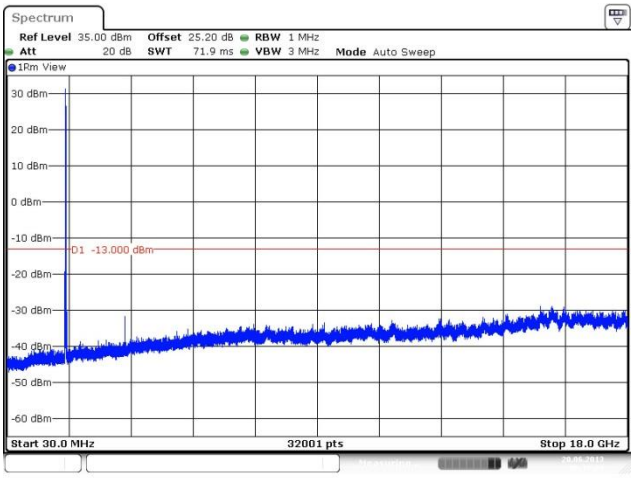


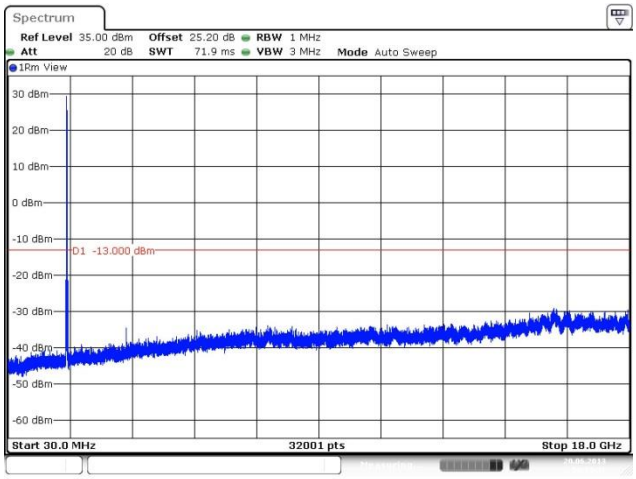


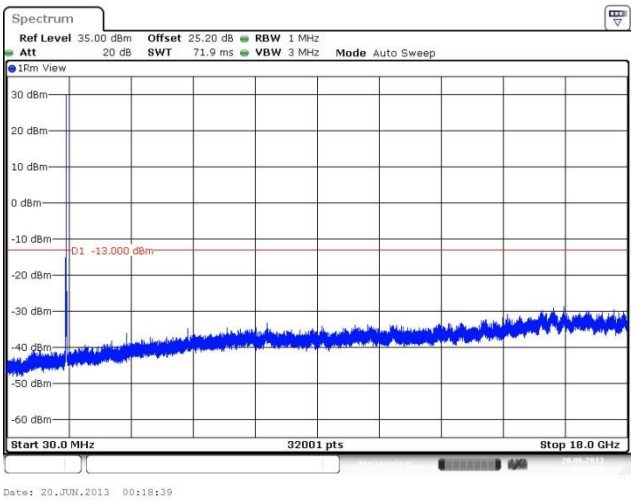


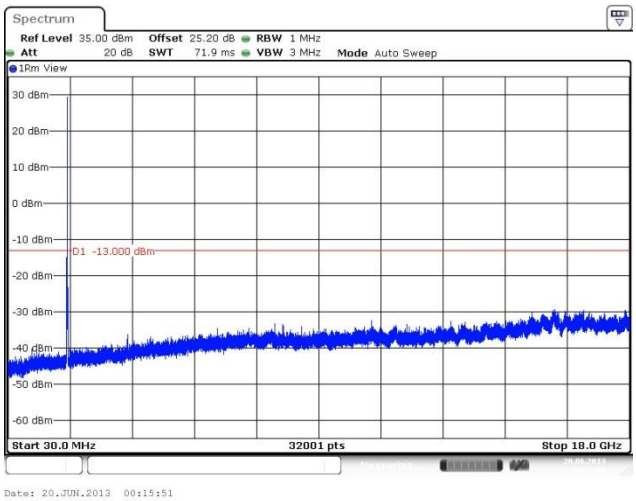


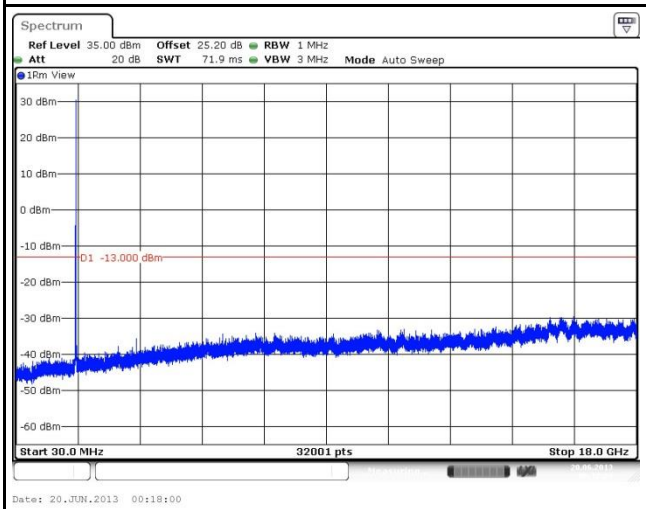
Mode	BW: 15 MHz / QPSK	Mode	BW: 15 MHz / 16QAM
Channel	Low / Middle / High	Channel	Low / Middle / High

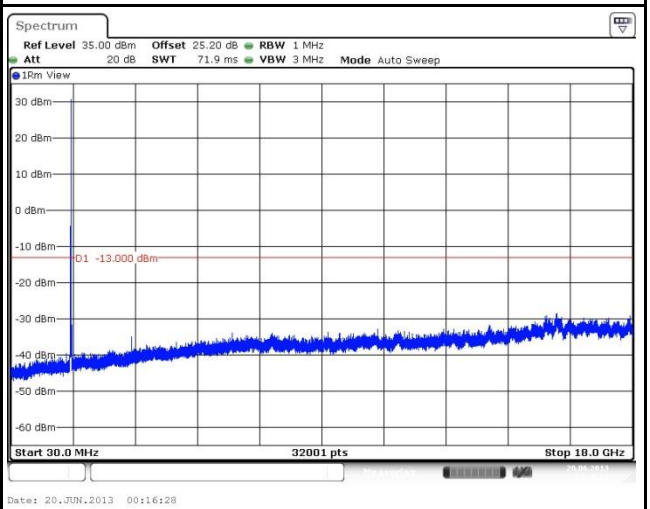












Mode	BW: 20 MHz / QPSK	Mode	BW: 20 MHz / 16QAM
Channel	Low / Middle / High	Channel	Low / Middle / High