

FCC RF Test Report

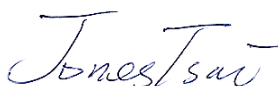
APPLICANT : ZTE CORPORATION
EQUIPMENT : LTE Ufi
BRAND NAME : ZTE
MODEL NAME : MF97A
FCC ID : SRQ-ZTEMF97A
STANDARD : 47 CFR Part 2, 22(H), 24(E), 27(M)
CLASSIFICATION : PCS Licensed Transmitter (PCB)

The product was received on Jan. 26, 2014 and testing was completed on Apr. 09, 2014. We, SPORTON INTERNATIONAL (KUNSHAN) INC., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI / TIA / EIA-603-C-2004 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL (KUNSHAN) INC., the test report shall not be reproduced except in full.



Reviewed by: Joseph Lin / Supervisor



Approved by: Jones Tsai / Manager



SPORTON INTERNATIONAL (KUNSHAN) INC.
No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C.

TABLE OF CONTENTS

REVISION HISTORY.....	3
SUMMARY OF TEST RESULT	4
1 GENERAL DESCRIPTION	6
1.1 Applicant.....	6
1.2 Manufacturer.....	6
1.3 Product Feature of Equipment Under Test.....	6
1.4 Product Specification subjective to this standard	7
1.5 Modification of EUT	8
1.6 Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator	8
1.7 Testing Location	10
1.8 Applicable Standards.....	10
2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST	11
2.1 Test Mode.....	11
2.2 Connection Diagram of Test System.....	13
2.3 Support Unit used in test configuration and system	13
2.4 Measurement Results Explanation Example.....	14
3 TEST RESULT.....	15
3.1 Conducted Output Power Measurement	15
3.2 Peak-to-Average Ratio	23
3.3 Effective Radiated Power and Equivalent Isotropic Radiated Power Measurement.....	40
3.4 99% Occupied Bandwidth and 26dB Bandwidth Measurement.....	50
3.5 Conducted Band Edge Measurement	83
3.6 Conducted Spurious Emission Measurement	145
3.7 Radiated Spurious Emission Measurement	237
3.8 Frequency Stability Measurement.....	270
4 LIST OF MEASURING EQUIPMENT	282
5 UNCERTAINTY OF EVALUATION.....	284
APPENDIX A. SETUP PHOTOGRAPHS	



REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG412609B	Rev. 01	Initial issue of report	Apr. 11, 2014

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	§2.1046	Conducted Output Power	Reporting Only	PASS	-
3.2	§24.232(d) §27.50(d)(5)	Peak-to-Average Ratio	<13 dB	PASS	-
3.3	§22.913(a)(2)	Effective Radiated Power (Band 26)	ERP < 7 Watts	PASS	-
	§24.232(c) §27.50(h)(2)	Equivalent Isotropic Radiated Power (Band 25) (Band 41)	EIRP < 2Watt		
3.4	§2.1049 §22.917(b) §24.238(b) §27.53(l)(4)	Occupied Bandwidth and 26dB Bandwidth	Reporting Only	PASS	-
3.5	§2.1051 §22.917(a) §24.238(a)	Conducted Band Edge Measurement (Band 25) (Band 26)	< 43+10log10(P[Watts])	PASS	-
	§2.1051 §27.53(l)(4)	Conducted Band Edge Measurement (Band 41)	< 5.5MHz: -13 dBm ≥ 5.5MHz: -25 dBm		

Report Section	FCC Rule	Description	Limit	Result	Remark
3.6	§2.1051 §22.917(a) §24.238(a)	Conducted Spurious Emission (Band 25) (Band 26)	$< 43 + 10\log_{10}(P[\text{Watts}])$	PASS	-
	§2.1051 §27.53(l)(4)	Conducted Spurious Emission (Band 41)	$< 55 + 10\log_{10}(P[\text{Watts}])$		
3.7	§2.1053 §22.917(a) §24.238(a)	Radiated Spurious Emission (Band 25) (Band 26)	$< 43 + 10\log_{10}(P[\text{Watts}])$	PASS	Under limit 12.98 dB at 4994.000 MHz
	§2.1053 §27.53(l)(4)	Radiated Spurious Emission (Band 41)	$< 55 + 10\log_{10}(P[\text{Watts}])$		
3.8	§2.1055 §22.355 §24.235 §27.54	Frequency Stability Temperature & Voltage	$< 2.5 \text{ ppm}$	PASS	

1 General Description

1.1 Applicant

ZTE CORPORATION

ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong,
518057, P.R.China

1.2 Manufacturer

ZTE CORPORATION

ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong,
518057, P.R.China

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	LTE Ufi
Brand Name	ZTE
Model Name	MF97A
FCC ID	SRQ-ZTEMF97A
EUT supports Radios application	CDMA/EV-DO/LTE/WLAN 2.4GHz 802. 11b/g/n HT20/HT40/ WLAN 5GHz 802. 11a/n HT20/HT40/ Bluetooth v3.0 + EDR/Bluetooth v4.0 LE
HW Version	MF97AV1.0.0B01
SW Version	xs9B
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification subjective to this standard

Product Specification subjective to this standard	
Tx Frequency	LTE Band 25 : 1850.7MHz ~ 1914.3 MHz LTE Band 26 : 824.7MHz ~ 848.3 MHz LTE Band 41 : 2498.5 MHz ~ 2687.5 MHz
Rx Frequency	LTE Band 25 : 1930.7MHz ~ 1994.3 MHz LTE Band 26 : 869.7 MHz ~ 893.3 MHz LTE Band 41 : 2498.5 MHz ~ 2687.5 MHz
Bandwidth	1.4MHz/3MHz/5MHz/10MHz/15MHz/20MHz (LTE Band 25) 1.4MHz/3MHz/5MHz/10MHz/15MHz (LTE Band 26) 5MHz/10MHz/15MHz/20MHz (LTE Band 41)
Maximum Output Power to Antenna	LTE Band 25 : 23.49 dBm LTE Band 26 : 23.38 dBm LTE Band 41 : 23.81 dBm
Antenna Type	IFA Antenna
Type of Modulation	QPSK / 16QAM

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator

FCC Rule	System	Type of Modulation	BW	Emission Designator	Frequency Tolerance (ppm)	Maximum ERP/EIRP
Part 24E	LTE Band 25	QPSK	1.4 MHz	1M10G7D	0.005 ppm	0.38 W
Part 24E	LTE Band 25	16QAM	1.4 MHz	1M10D7W	0.009 ppm	0.30 W
Part 24E	LTE Band 25	QPSK	3 MHz	2M74G7D	0.005 ppm	0.37 W
Part 24E	LTE Band 25	16QAM	3 MHz	2M74D7W	0.012 ppm	0.29 W
Part 24E	LTE Band 25	QPSK	5 MHz	4M50G7D	0.005 ppm	0.41 W
Part 24E	LTE Band 25	16QAM	5 MHz	4M50D7W	0.006 ppm	0.32 W
Part 24E	LTE Band 25	QPSK	10 MHz	9M16G7D	0.005 ppm	0.41 W
Part 24E	LTE Band 25	16QAM	10 MHz	9M12D7W	0.005 ppm	0.33 W
Part 24E	LTE Band 25	QPSK	15 MHz	13M5G7D	0.005 ppm	0.37 W
Part 24E	LTE Band 25	16QAM	15 MHz	13M6D7W	0.005 ppm	0.29 W
Part 24E	LTE Band 25	QPSK	20 MHz	18M8G7D	0.006 ppm	0.49 W
Part 24E	LTE Band 25	16QAM	20 MHz	18M8D7W	0.006 ppm	0.30 W
Part 22H	LTE Band 26	QPSK	1.4 MHz	1M10G7D	0.012 ppm	0.19 W
Part 22H	LTE Band 26	16QAM	1.4 MHz	1M10D7W	0.012 ppm	0.17 W
Part 22H	LTE Band 26	QPSK	3 MHz	2M74G7D	0.013 ppm	0.19 W
Part 22H	LTE Band 26	16QAM	3 MHz	2M74D7W	0.011 ppm	0.17 W
Part 22H	LTE Band 26	QPSK	5 MHz	4M52G7D	0.012 ppm	0.20 W
Part 22H	LTE Band 26	16QAM	5 MHz	4M52D7W	0.014 ppm	0.17 W
Part 22H	LTE Band 26	QPSK	10 MHz	9M16G7D	0.012 ppm	0.17 W
Part 22H	LTE Band 26	16QAM	10 MHz	9M16D7W	0.013 ppm	0.16 W
Part 22H	LTE Band 26	QPSK	15 MHz	13M6G7D	0.013 ppm	0.17 W
Part 22H	LTE Band 26	16QAM	15 MHz	13M6D7W	0.014 ppm	0.15 W

FCC Rule	System	Type of Modulation	BW	Emission Designator	Frequency Tolerance (ppm)	Maximum ERP/EIRP
Part 27M	LTE Band 41	QPSK	5MHz	4M52G7D	0.004 ppm	0.60 W
Part 27M	LTE Band 41	16QAM	5MHz	4M52D7W	0.006 ppm	0.54 W
Part 27M	LTE Band 41	QPSK	10MHz	9M12G7D	0.004 ppm	0.60 W
Part 27M	LTE Band 41	16QAM	10MHz	9M08D7W	0.004 ppm	0.50 W
Part 27M	LTE Band 41	QPSK	15MHz	13M6G7D	0.004 ppm	0.59 W
Part 27M	LTE Band 41	16QAM	15MHz	13M6D7W	0.003 ppm	0.49 W
Part 27M	LTE Band 41	QPSK	20MHz	18M6G7D	0.004 ppm	0.59 W
Part 27M	LTE Band 41	16QAM	20MHz	18M6D7W	0.004 ppm	0.48 W

1.7 Testing Location

Test Site	SPORTON INTERNATIONAL (KUNSHAN) INC.			
Test Site Location	No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C.			
	TEL: +86-0512-5790-0158 FAX: +86-0512-5790-0958			
Test Site No.	Sporton Site No.			FCC Registration No.
	TH01-KS	03CH01-KS	OTA01-KS	149928

1.8 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 2, 22(H), 24(E), 27(M)
- ANSI / TIA / EIA-603-C-2004
- FCC KDB 971168 D01 Power Meas. License Digital Systems v02r01

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v02r01 with maximum output power.

Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

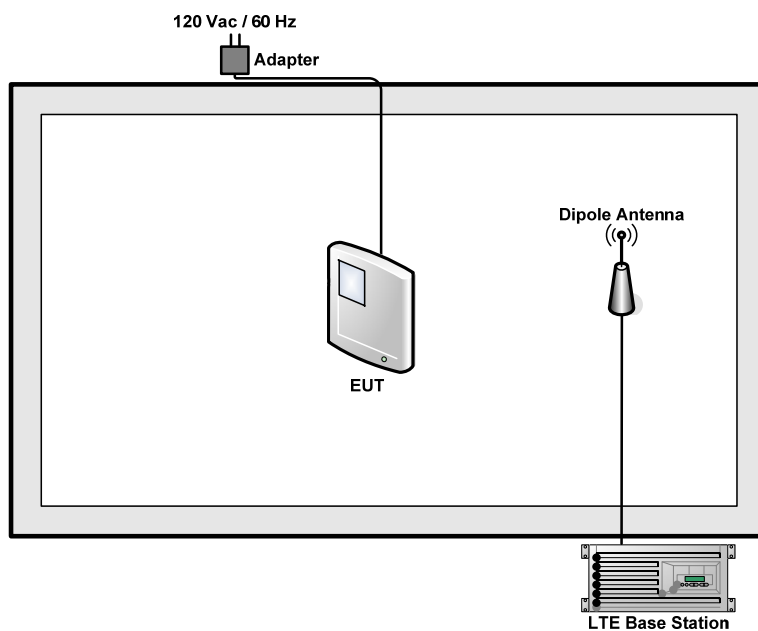
Frequency range investigated for radiated emission: 30MHz to 10th harmonic.

Test Modes			
Band		Radiated TCs	Conducted TCs
LTE Band 25	BW 1.4MHz	■ LTE (RB Size 1, RB Offset 0) QPSK Link	■ LTE (RB Size 1) Link ■ LTE (RB Size 3) Link ■ LTE (RB Size 6) Link
	BW 3MHz	■ LTE (RB Size 1, RB Offset 0) QPSK Link	■ LTE (RB Size 1) Link ■ LTE (RB Size 8) Link ■ LTE (RB Size 15) Link
	BW 5MHz	■ LTE (RB Size 1, RB Offset 0) QPSK Link	■ LTE (RB Size 1) Link ■ LTE (RB Size 12) Link ■ LTE (RB Size 25) Link
	BW 10MHz	■ LTE (RB Size 1, RB Offset 0) QPSK Link	■ LTE (RB Size 1) Link ■ LTE (RB Size 25) Link ■ LTE (RB Size 50) Link
	BW 15MHz	■ LTE (RB Size 1, RB Offset 0) QPSK Link	■ LTE (RB Size 1) Link ■ LTE (RB Size 36) Link ■ LTE (RB Size 75) Link
	BW 20MHz	■ LTE (RB Size 1, RB Offset 0) QPSK Link	■ LTE (RB Size 1) Link ■ LTE (RB Size 50) Link ■ LTE (RB Size 100) Link

Test Modes			
Band		Radiated TCs	Conducted TCs
LTE Band 26	BW 1.4MHz	■ LTE (RB Size 1, RB Offset 0) QPSK Link	■ LTE (RB Size 1) Link ■ LTE (RB Size 3) Link ■ LTE (RB Size 6) Link
	BW 3MHz	■ LTE (RB Size 1, RB Offset 0) QPSK Link	■ LTE (RB Size 1) Link ■ LTE (RB Size 8) Link ■ LTE (RB Size 15) Link
	BW 5MHz	■ LTE (RB Size 1, RB Offset 0) QPSK Link	■ LTE (RB Size 1) Link ■ LTE (RB Size 12) Link ■ LTE (RB Size 25) Link
	BW 10MHz	■ LTE (RB Size 1, RB Offset 0) QPSK Link	■ LTE (RB Size 1) Link ■ LTE (RB Size 25) Link ■ LTE (RB Size 50) Link
	BW 15MHz	■ LTE (RB Size 1, RB Offset 0) QPSK Link	■ LTE (RB Size 1) Link ■ LTE (RB Size 36) Link ■ LTE (RB Size 75) Link
LTE Band 41	BW 5MHz	■ LTE (RB Size 1, RB Offset 0) QPSK Link	■ LTE (RB Size 1) Link ■ LTE (RB Size 12) Link ■ LTE (RB Size 25) Link
	BW 10MHz	■ LTE (RB Size 1, RB Offset 0) QPSK Link	■ LTE (RB Size 1) Link ■ LTE (RB Size 25) Link ■ LTE (RB Size 50) Link
	BW 15MHz	■ LTE (RB Size 1, RB Offset 0) QPSK Link	■ LTE (RB Size 1) Link ■ LTE (RB Size 36) Link ■ LTE (RB Size 75) Link
	BW 20MHz	■ LTE (RB Size 1, RB Offset 0) QPSK Link	■ LTE (RB Size 1) Link ■ LTE (RB Size 50) Link ■ LTE (RB Size 100) Link

Note: The spurious emission was performed by conducted and radiated methods. From conducted spurious emission measurement (QPSK and 16QAM), the modulation related spurious emission out of the band was not identified and the radiated spurious emissions results on 16QAM were not worse than QSPK mode during exploratory test.

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	DC Power Supply	GWINSTEK	GPS-3030D	N/A	N/A	Unshielded, 1.8 m

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 6 dB and 10dB attenuator.

$$\begin{aligned}\text{Offset (dB)} &= \text{RF cable loss (dB)} + \text{attenuator factor (dB)} \\ &= 6 + 10 = 16 \text{ (dB)}\end{aligned}$$

3 Test Result

3.1 Conducted Output Power Measurement

3.1.1 Description of the Conducted Output Power Measurement

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals shall be reported.

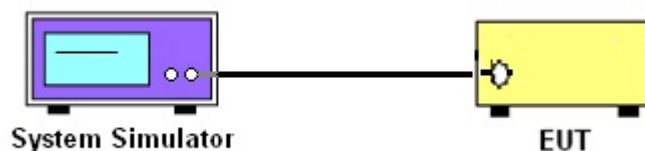
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

1. The transmitter output port was connected to the system simulator.
2. Set EUT at maximum power through system simulator.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure and record the power level from the system simulator.

3.1.4 Test Setup



3.1.5 Test Result of Conducted Output Power

<LTE Band 25 Conducted Power>

BW [MHz]	Modulation	RB Size	RB Offset	Power (dBm) Low Ch. / Freq.	Power (dBm) Middle Ch. / Freq.	Power (dBm) High Ch. / Freq.
Channel				26140	26340	26590
Frequency (MHz)				1860	1880	1905
20	QPSK	1	0	23.43	23.47	23.49
20	QPSK	1	49	23.32	23.33	23.46
20	QPSK	1	99	23.33	23.32	23.44
20	QPSK	50	0	22.13	22.37	22.39
20	QPSK	50	24	21.99	22.33	22.28
20	QPSK	50	49	22.05	22.27	22.36
20	QPSK	100	0	22.16	22.38	22.34
20	16QAM	1	0	22.70	22.82	22.85
20	16QAM	1	49	22.51	22.72	22.80
20	16QAM	1	99	22.49	22.78	22.77
20	16QAM	50	0	21.14	21.55	21.47
20	16QAM	50	24	21.09	21.53	21.34
20	16QAM	50	49	21.09	21.44	21.48
20	16QAM	100	0	21.19	21.49	21.47
Channel				26115	26340	26615
Frequency (MHz)				1857.5	1880	1907.5
15	QPSK	1	0	23.40	23.45	23.39
15	QPSK	1	37	23.31	23.35	23.31
15	QPSK	1	74	23.30	23.38	23.29
15	QPSK	36	0	22.17	22.31	22.29
15	QPSK	36	18	22.15	22.35	22.23
15	QPSK	36	37	22.05	22.37	22.45
15	QPSK	75	0	22.06	22.27	22.19
15	16QAM	1	0	22.32	22.45	22.49
15	16QAM	1	37	22.15	22.41	22.41
15	16QAM	1	74	22.24	22.39	22.45
15	16QAM	36	0	21.09	21.36	21.45
15	16QAM	36	18	21.19	21.31	21.37
15	16QAM	36	37	21.10	21.41	21.55
15	16QAM	75	0	21.15	21.40	21.43

BW [MHz]	Modulation	RB Size	RB Offset	Power (dBm) Low Ch. / Freq.	Power (dBm) Middle Ch. / Freq.	Power (dBm) High Ch. / Freq.
Channel				26090	26340	26640
Frequency (MHz)				1855	1880	1910
10	QPSK	1	0	23.27	23.45	23.46
10	QPSK	1	24	22.98	23.37	23.40
10	QPSK	1	49	23.15	23.42	23.43
10	QPSK	25	0	22.15	22.41	22.36
10	QPSK	25	12	22.14	22.30	22.48
10	QPSK	25	24	22.19	22.43	22.51
10	QPSK	50	0	22.07	22.25	22.36
10	16QAM	1	0	22.32	22.07	22.29
10	16QAM	1	24	21.84	22.18	22.27
10	16QAM	1	49	21.92	22.03	22.19
10	16QAM	25	0	21.19	21.39	21.37
10	16QAM	25	12	21.14	21.29	21.49
10	16QAM	25	24	21.13	21.44	21.52
10	16QAM	50	0	21.06	21.29	21.22
Channel				26065	26340	26665
Frequency (MHz)				1852.5	1880	1912.5
5	QPSK	1	0	23.30	23.40	23.42
5	QPSK	1	12	23.10	23.36	23.38
5	QPSK	1	24	23.18	23.38	23.23
5	QPSK	12	0	22.36	22.41	22.47
5	QPSK	12	6	22.21	22.41	22.60
5	QPSK	12	11	22.23	22.39	22.38
5	QPSK	25	0	22.13	22.36	22.39
5	16QAM	1	0	21.98	22.17	22.25
5	16QAM	1	12	21.82	22.11	22.19
5	16QAM	1	24	21.88	22.02	22.06
5	16QAM	12	0	21.35	21.56	21.46
5	16QAM	12	6	21.32	21.48	21.59
5	16QAM	12	11	21.34	21.55	21.47
5	16QAM	25	0	21.08	21.26	21.31

BW [MHz]	Modulation	RB Size	RB Offset	Power (dBm) Low Ch. / Freq.	Power (dBm) Middle Ch. / Freq.	Power (dBm) High Ch. / Freq.
Channel				26055	26340	26675
Frequency (MHz)				1851.5	1880	1913.5
3	QPSK	1	0	23.33	23.44	23.39
3	QPSK	1	7	23.18	23.28	23.26
3	QPSK	1	14	23.15	23.37	23.12
3	QPSK	8	0	22.23	22.50	22.44
3	QPSK	8	4	22.24	22.43	22.43
3	QPSK	8	7	22.22	22.37	22.24
3	QPSK	15	0	22.21	22.32	22.42
3	16QAM	1	0	22.31	22.45	22.42
3	16QAM	1	7	22.29	22.40	22.36
3	16QAM	1	14	22.19	22.35	22.28
3	16QAM	8	0	21.08	21.35	21.40
3	16QAM	8	4	21.04	21.26	21.31
3	16QAM	8	7	21.09	21.22	21.14
3	16QAM	15	0	21.34	21.37	21.48
Channel				26047	26340	26683
Frequency (MHz)				1850.7	1880	1914.3
1.4	QPSK	1	0	23.35	23.45	23.36
1.4	QPSK	1	2	23.28	23.40	23.27
1.4	QPSK	1	5	23.21	23.37	23.35
1.4	QPSK	3	0	23.34	23.40	23.26
1.4	QPSK	3	1	23.34	23.41	23.30
1.4	QPSK	3	2	23.32	23.42	23.33
1.4	QPSK	6	0	22.31	22.38	22.42
1.4	16QAM	1	0	22.45	22.33	22.35
1.4	16QAM	1	2	22.44	22.25	22.26
1.4	16QAM	1	5	22.26	22.27	22.21
1.4	16QAM	3	0	22.40	22.17	22.33
1.4	16QAM	3	1	22.35	22.29	22.27
1.4	16QAM	3	2	22.32	22.19	22.24
1.4	16QAM	6	0	21.25	21.45	21.48

<LTE Band 26 Conducted Power>

BW [MHz]	Modulation	RB Size	RB Offset	Power (dBm) Low Ch. / Freq.	Power (dBm) Middle Ch. / Freq.	Power (dBm) High Ch. / Freq.
Channel				26865	26915	26965
Frequency (MHz)				831.5	836.5	841.5
15	QPSK	1	0	23.38	23.14	22.93
15	QPSK	1	37	23.01	22.92	22.84
15	QPSK	1	74	23.10	22.89	22.73
15	QPSK	36	0	21.97	21.71	21.81
15	QPSK	36	18	21.91	21.52	21.82
15	QPSK	36	37	21.96	21.49	21.60
15	QPSK	75	0	21.88	21.56	21.75
15	16QAM	1	0	22.43	22.15	22.16
15	16QAM	1	37	22.24	22.04	21.78
15	16QAM	1	74	21.95	22.08	21.66
15	16QAM	36	0	20.96	20.64	20.95
15	16QAM	36	18	20.93	20.81	20.78
15	16QAM	36	37	20.94	20.76	20.67
15	16QAM	75	0	20.89	20.75	20.59
Channel				26840	26915	26990
Frequency (MHz)				829	836.5	844
10	QPSK	1	0	23.05	22.81	22.90
10	QPSK	1	24	23.04	22.79	22.79
10	QPSK	1	49	22.96	22.89	22.78
10	QPSK	25	0	21.80	21.59	21.70
10	QPSK	25	12	21.84	21.90	21.73
10	QPSK	25	24	21.79	21.82	21.59
10	QPSK	50	0	21.70	21.61	21.56
10	16QAM	1	0	22.32	22.18	22.11
10	16QAM	1	24	22.00	22.09	21.73
10	16QAM	1	49	21.86	22.07	21.71
10	16QAM	25	0	20.74	20.67	20.66
10	16QAM	25	12	20.55	20.83	20.66
10	16QAM	25	24	20.81	20.90	20.64
10	16QAM	50	0	20.71	20.70	20.49



BW [MHz]	Modulation	RB Size	RB Offset	Power (dBm) Low Ch. / Freq.	Power (dBm) Middle Ch. / Freq.	Power (dBm) High Ch. / Freq.
Channel				26815	26915	27015
Frequency (MHz)				826.5	836.5	846.5
5	QPSK	1	0	22.97	22.73	22.80
5	QPSK	1	12	22.82	22.65	22.64
5	QPSK	1	24	22.63	22.64	22.53
5	QPSK	12	0	21.72	21.59	21.77
5	QPSK	12	6	21.71	21.60	21.83
5	QPSK	12	11	21.69	21.72	21.79
5	QPSK	25	0	21.65	21.46	21.61
5	16QAM	1	0	22.05	21.94	21.92
5	16QAM	1	12	21.93	21.90	21.90
5	16QAM	1	24	21.90	21.75	21.72
5	16QAM	12	0	21.75	20.65	20.77
5	16QAM	12	6	20.75	20.63	20.86
5	16QAM	12	11	20.66	20.78	20.84
5	16QAM	25	0	20.71	20.53	20.72
Channel				26805	26915	27025
Frequency (MHz)				825.5	836.5	847.5
3	QPSK	1	0	22.93	22.88	22.86
3	QPSK	1	7	22.91	22.73	22.68
3	QPSK	1	14	22.89	22.65	22.65
3	QPSK	8	0	21.94	21.69	21.71
3	QPSK	8	4	21.86	21.60	21.71
3	QPSK	8	7	21.88	21.93	21.60
3	QPSK	15	0	21.83	21.59	21.59
3	16QAM	1	0	22.09	21.98	21.82
3	16QAM	1	7	21.94	21.90	21.63
3	16QAM	1	14	21.99	21.93	21.65
3	16QAM	8	0	20.91	20.68	20.60
3	16QAM	8	4	20.83	20.59	20.63
3	16QAM	8	7	20.90	20.62	20.60
3	16QAM	15	0	20.82	20.53	20.77
Channel				26797	26915	27033
Frequency (MHz)				824.7	836.5	848.3
1.4	QPSK	1	0	22.95	22.83	22.85
1.4	QPSK	1	2	22.93	22.81	22.78
1.4	QPSK	1	5	22.84	22.77	22.65
1.4	QPSK	3	0	22.89	22.64	22.62
1.4	QPSK	3	1	22.92	22.67	22.76
1.4	QPSK	3	2	22.90	22.72	22.66
1.4	QPSK	6	0	21.96	21.59	21.73
1.4	16QAM	1	0	22.07	22.03	21.99
1.4	16QAM	1	2	22.01	21.90	21.96
1.4	16QAM	1	5	21.88	21.87	21.98
1.4	16QAM	3	0	21.93	21.85	21.79
1.4	16QAM	3	1	21.99	21.74	21.78
1.4	16QAM	3	2	21.98	21.80	21.73
1.4	16QAM	6	0	20.95	20.73	20.79

<LTE Band 41 Conducted Power>

BW [MHz]	Modulation	RB Size	RB Offset	Power (dBm) Low Ch. / Freq.	Power (dBm) Middle Ch. / Freq.	Power (dBm) High Ch. / Freq.
Channel				39750	40620	41490
Frequency (MHz)				2506	2593	2680
20	QPSK	1	0	23.44	23.81	23.40
20	QPSK	1	49	23.42	23.54	23.15
20	QPSK	1	99	23.42	23.52	23.05
20	QPSK	50	0	22.09	22.52	22.11
20	QPSK	50	24	22.27	22.48	22.09
20	QPSK	50	49	22.14	22.50	22.06
20	QPSK	100	0	22.18	22.45	22.02
20	16QAM	1	0	22.56	22.89	22.45
20	16QAM	1	49	22.47	22.76	22.43
20	16QAM	1	99	22.52	22.88	22.40
20	16QAM	50	0	21.34	21.22	21.17
20	16QAM	50	24	21.24	21.40	21.12
20	16QAM	50	49	21.22	21.31	20.97
20	16QAM	100	0	21.19	21.45	21.05
Channel				39725	40620	41515
Frequency (MHz)				2503.5	2593	2682.5
15	QPSK	1	0	23.55	23.07	23.25
15	QPSK	1	37	23.42	23.02	23.22
15	QPSK	1	74	23.45	23.05	23.09
15	QPSK	36	0	22.35	22.08	22.19
15	QPSK	36	18	22.40	21.96	22.16
15	QPSK	36	37	22.36	21.89	22.01
15	QPSK	75	0	22.22	21.82	21.98
15	16QAM	1	0	22.78	22.31	22.40
15	16QAM	1	37	22.63	22.29	22.37
15	16QAM	1	74	22.62	22.19	22.25
15	16QAM	36	0	21.29	21.05	21.20
15	16QAM	36	18	21.25	20.94	21.13
15	16QAM	36	37	21.32	20.88	20.98
15	16QAM	75	0	21.47	21.14	21.11

BW [MHz]	Modulation	RB Size	RB Offset	Power (dBm) Low Ch. / Freq.	Power (dBm) Middle Ch. / Freq.	Power (dBm) High Ch. / Freq.
Channel				39700	40620	41540
Frequency (MHz)				2501	2593	2685
10	QPSK	1	0	23.68	23.50	23.40
10	QPSK	1	24	23.50	23.48	23.15
10	QPSK	1	49	23.66	23.47	23.18
10	QPSK	25	0	22.51	22.32	22.27
10	QPSK	25	12	22.62	22.20	22.14
10	QPSK	25	24	22.60	22.30	22.13
10	QPSK	50	0	22.41	21.96	21.95
10	16QAM	1	0	22.88	22.86	22.78
10	16QAM	1	24	22.46	22.67	22.60
10	16QAM	1	49	22.70	22.61	22.36
10	16QAM	25	0	21.33	21.28	21.18
10	16QAM	25	12	21.43	21.13	21.07
10	16QAM	25	24	21.41	21.07	20.93
10	16QAM	50	0	21.43	21.34	21.10
Channel				39675	40620	41565
Frequency (MHz)				2498.5	2593	2687.5
5	QPSK	1	0	23.61	23.22	23.14
5	QPSK	1	12	23.59	23.09	23.13
5	QPSK	1	24	23.52	23.20	23.08
5	QPSK	12	0	22.60	22.35	22.15
5	QPSK	12	6	22.59	22.17	22.12
5	QPSK	12	11	22.61	22.41	22.13
5	QPSK	25	0	22.48	22.03	22.03
5	16QAM	1	0	22.87	22.62	22.43
5	16QAM	1	12	22.82	22.59	22.37
5	16QAM	1	24	22.86	22.55	22.39
5	16QAM	12	0	21.91	21.57	21.62
5	16QAM	12	6	21.84	21.54	21.53
5	16QAM	12	11	21.87	21.53	21.49
5	16QAM	25	0	21.40	21.01	20.95

Note: Maximum average power for LTE.

3.2 Peak-to-Average Ratio

3.2.1 Description of the PAR Measurement

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

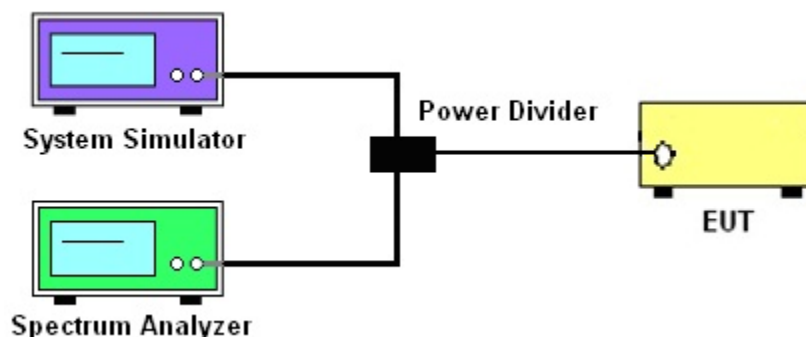
3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.2.3 Test Procedures

1. The EUT was connected to spectrum and system simulator via a power divider.
2. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
3. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
4. Record the deviation as Peak to Average Ratio.

3.2.4 Test Setup



3.2.5 Test Result of Peak-to-Average Ratio

Modes	LTE Band 25			
BW / Mod.	1.4MHz / QPSK	1.4MHz / 16QAM	3MHz / QPSK	3MHz / 16QAM
Peak-to-Average Ratio (dB)	6.12	6.60	5.84	6.76
BW / Mod.	5MHz / QPSK	5MHz / 16QAM	10MHz / QPSK	10MHz / 16QAM
Peak-to-Average Ratio (dB)	5.92	6.56	5.76	6.60
BW / Mod.	15MHz / QPSK	15MHz / 16QAM	20MHz / QPSK	20MHz / 16QAM
Peak-to-Average Ratio (dB)	5.96	6.84	6.52	7.20

Modes	LTE Band 26			
BW / Mod.	1.4MHz / QPSK	1.4MHz / 16QAM	3MHz / QPSK	3MHz / 16QAM
Peak-to-Average Ratio (dB)	6.36	6.76	6.04	6.96
BW / Mod.	5MHz / QPSK	5MHz / 16QAM	10MHz / QPSK	10MHz / 16QAM
Peak-to-Average Ratio (dB)	6.12	6.76	5.92	6.68
BW / Mod.	15MHz / QPSK	15MHz / 16QAM		
Peak-to-Average Ratio (dB)	5.96	7.00		

Modes	LTE Band 41			
BW / Mod.	5MHz / QPSK	5MHz / 16QAM	10MHz / QPSK	10MHz / 16QAM
Peak-to-Average Ratio (dB)	6.84	8.20	7.08	7.88
BW / Mod.	15MHz / QPSK	15MHz / 16QAM	20MHz / QPSK	20MHz / 16QAM
Peak-to-Average Ratio (dB)	7.60	8.52	8.48	8.84

Note:

The maximum RB configurations of the PAPR summary as below:

BW1.4MHz RB setting : RB Size 6, RB offset 0

BW3.0MHz RB setting : RB Size 15, RB offset 0

BW5.0MHz RB setting : RB Size 25, RB offset 0

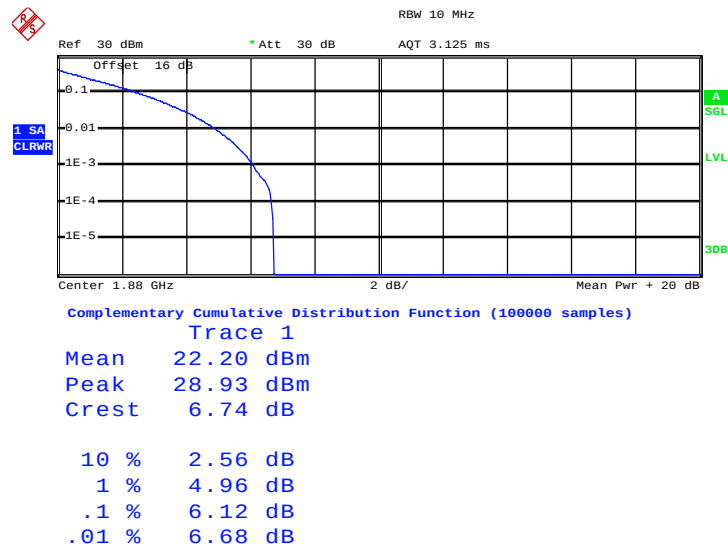
BW10MHz RB setting : RB Size 50, RB offset 0

BW15MHz RB setting : RB Size 75, RB offset 0

BW20MHz RB setting : RB Size 100, RB offset 0

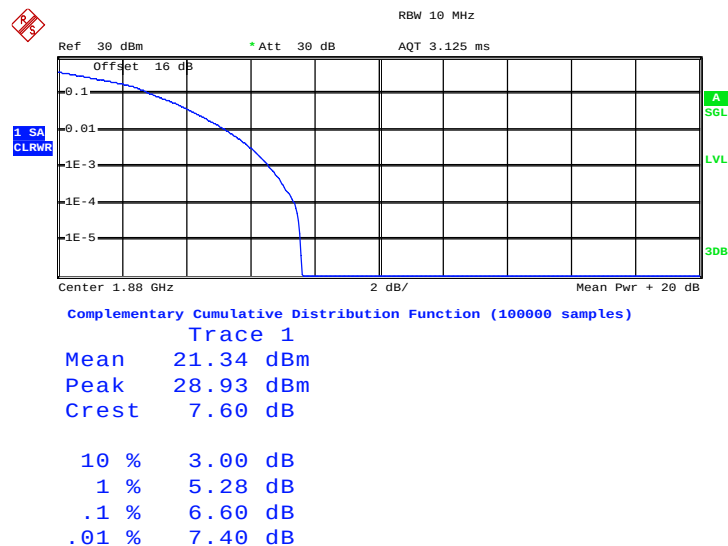
3.2.6 Peak to Average Power Ratio

Peak-to-Average Ratio on LTE Band 25 1.4MHz / QPSK



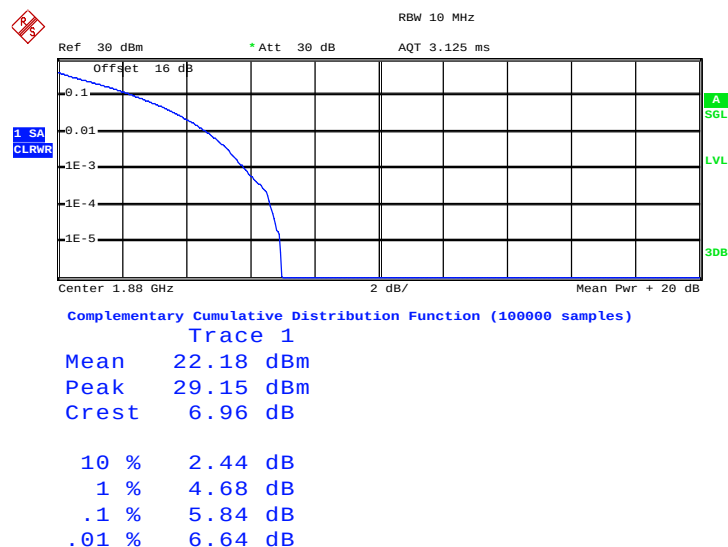
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Peak-to-Average Ratio on LTE Band 25 1.4MHz / 16QAM



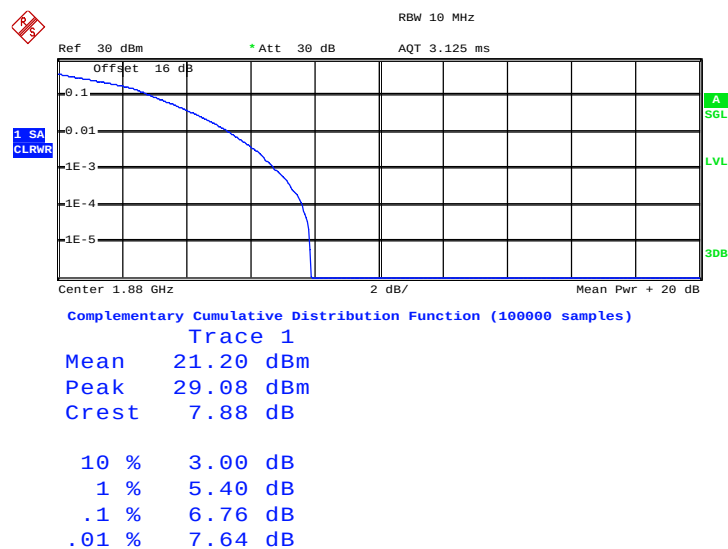
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Peak-to-Average Ratio on LTE Band 25 3MHz / QPSK

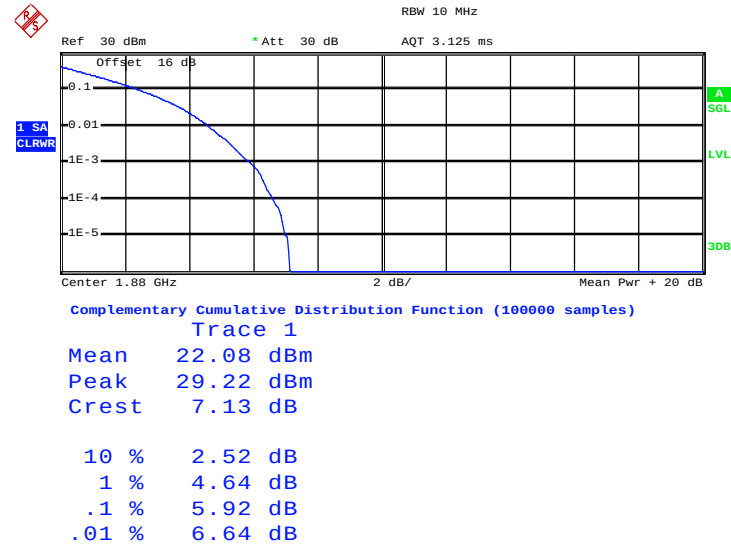


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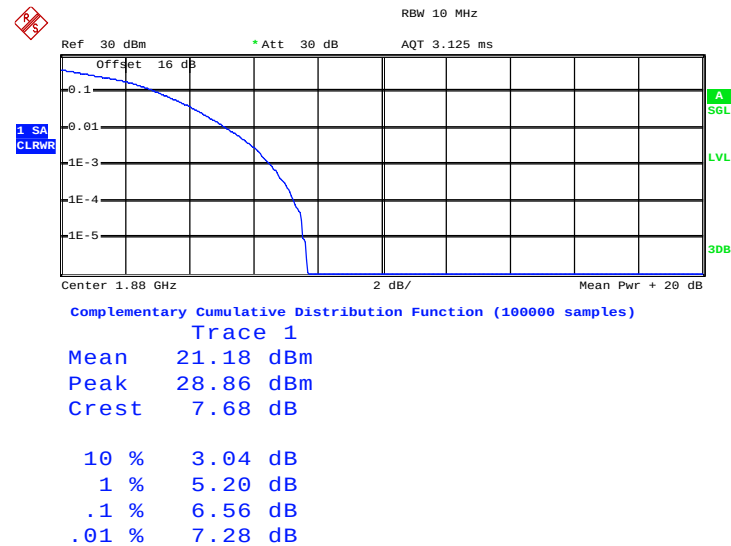
Peak-to-Average Ratio on LTE Band 25 3MHz / 16QAM



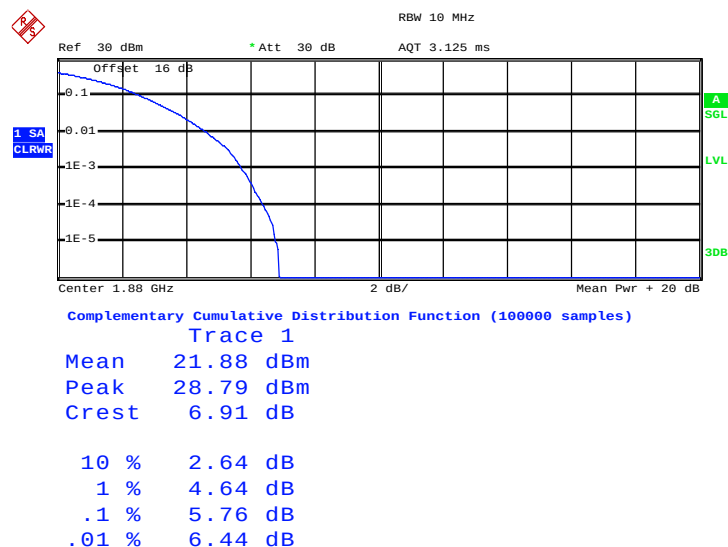
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Peak-to-Average Ratio on LTE Band 25 5MHz / QPSK


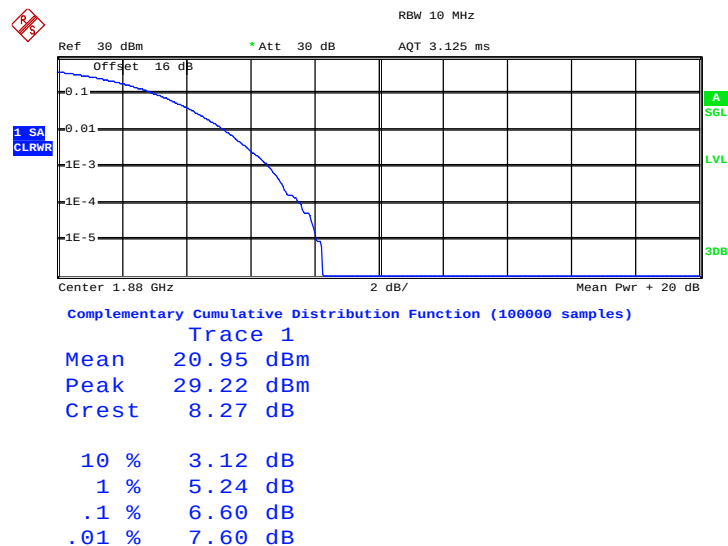
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Peak-to-Average Ratio on LTE Band 25 5MHz / 16QAM


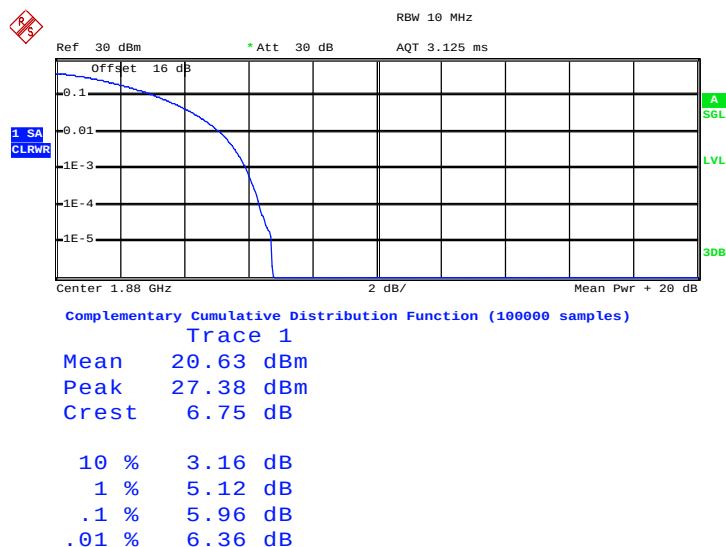
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Peak-to-Average Ratio on LTE Band 25 10MHz / QPSK


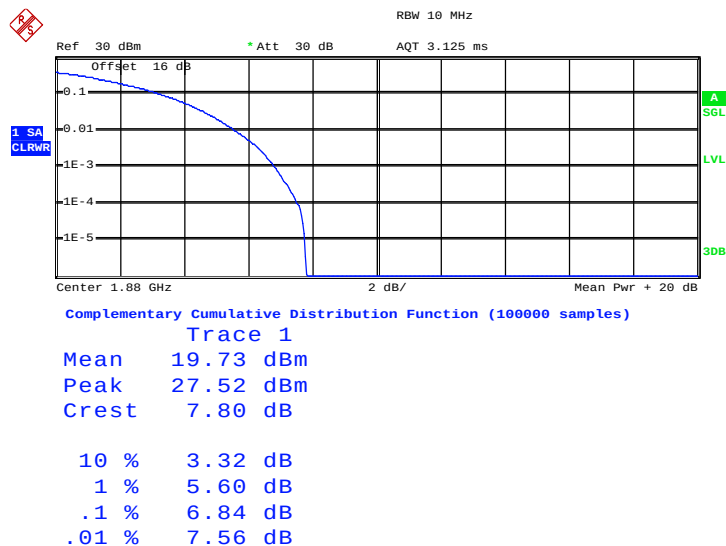
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Peak-to-Average Ratio on LTE Band 25 10MHz / 16QAM


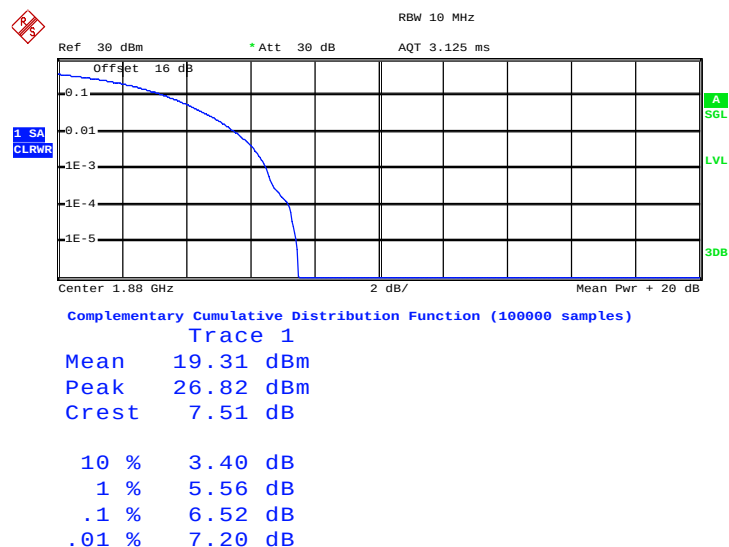
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Peak-to-Average Ratio on LTE Band 25 15MHz / QPSK


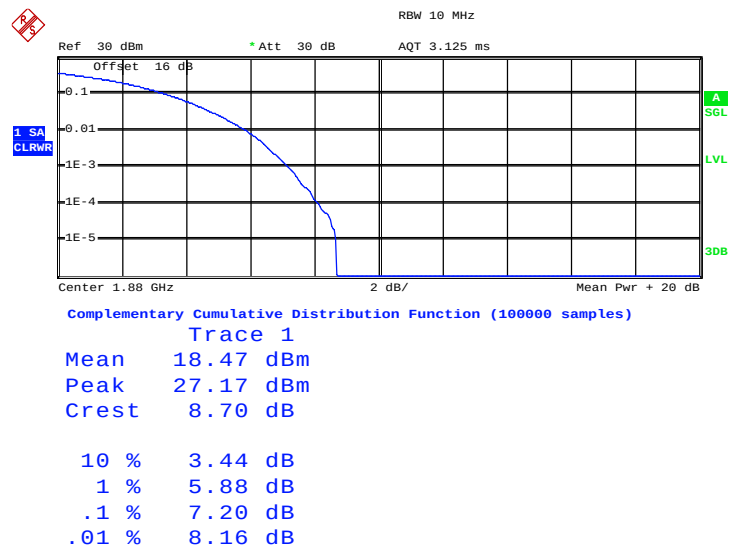
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Peak-to-Average Ratio on LTE Band 25 15MHz / 16QAM


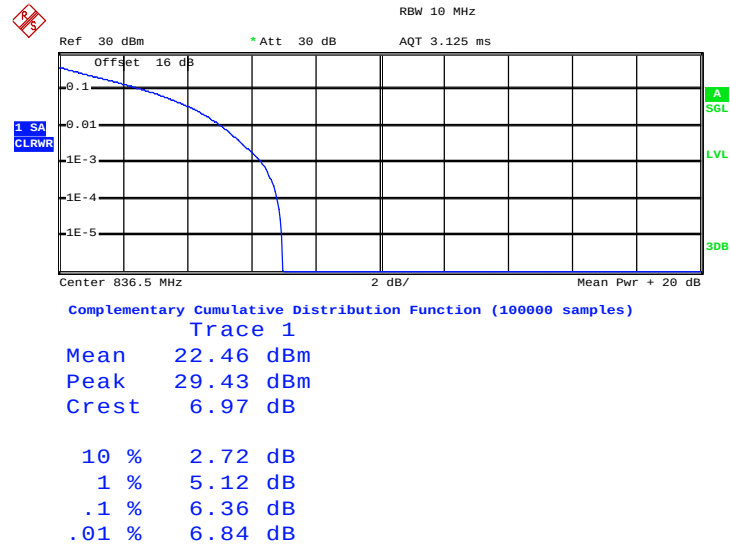
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Peak-to-Average Ratio on LTE Band 25 20MHz / QPSK


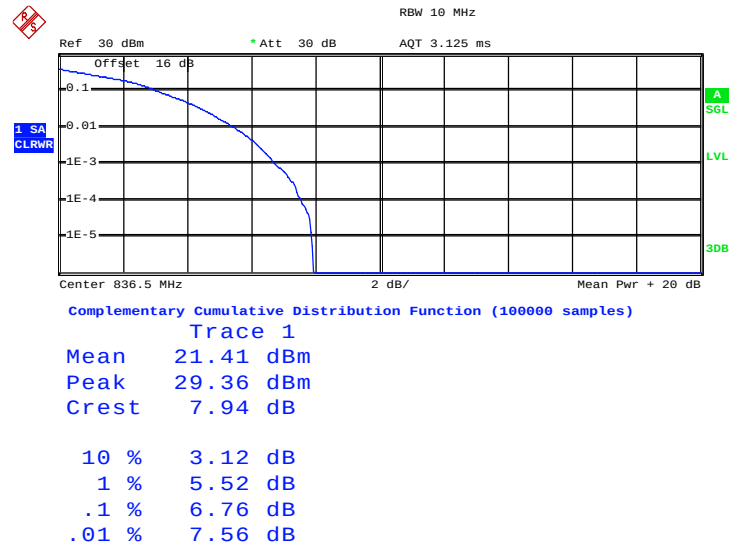
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Peak-to-Average Ratio on LTE Band 25 20MHz / 16QAM


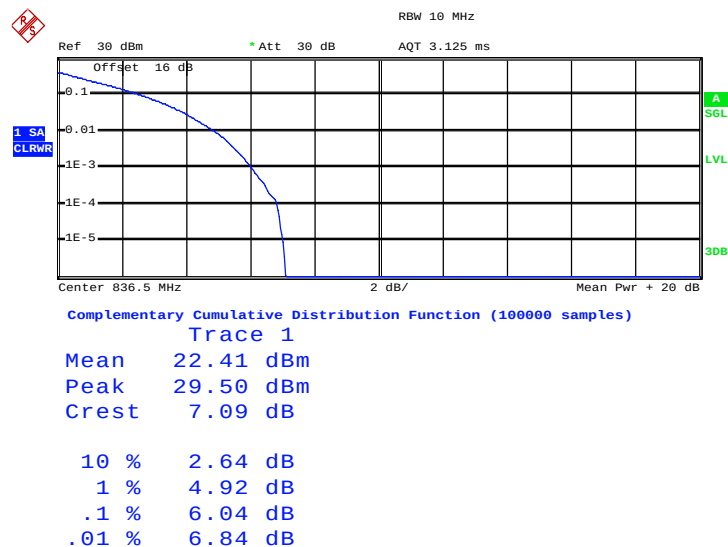
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Peak-to-Average Ratio on LTE Band 26 1.4MHz / QPSK


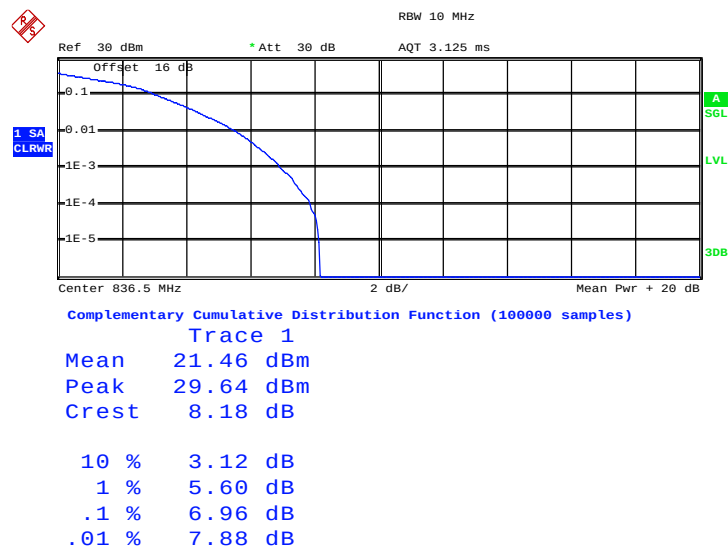
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Peak-to-Average Ratio on LTE Band 26 1.4MHz / 16QAM


Date: 10.MAR.2014 11:30:34

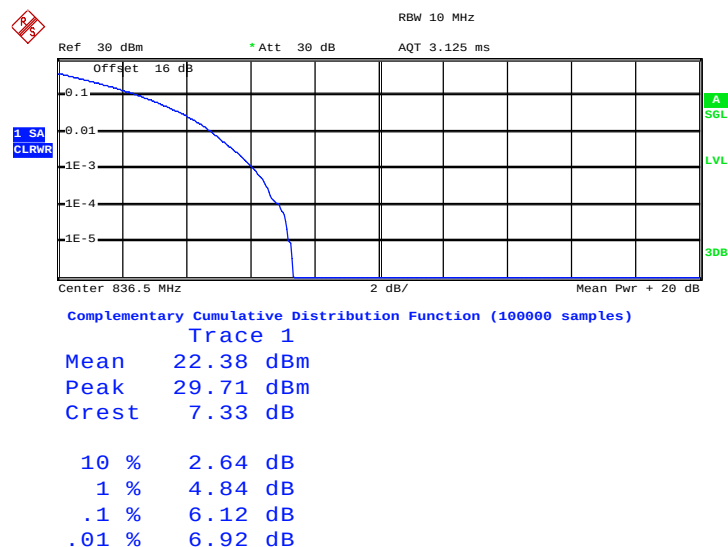
Peak-to-Average Ratio on LTE Band 26 3MHz / QPSK


Date: 10.MAR.2014 11:31:37

Peak-to-Average Ratio on LTE Band 26 3MHz / 16QAM


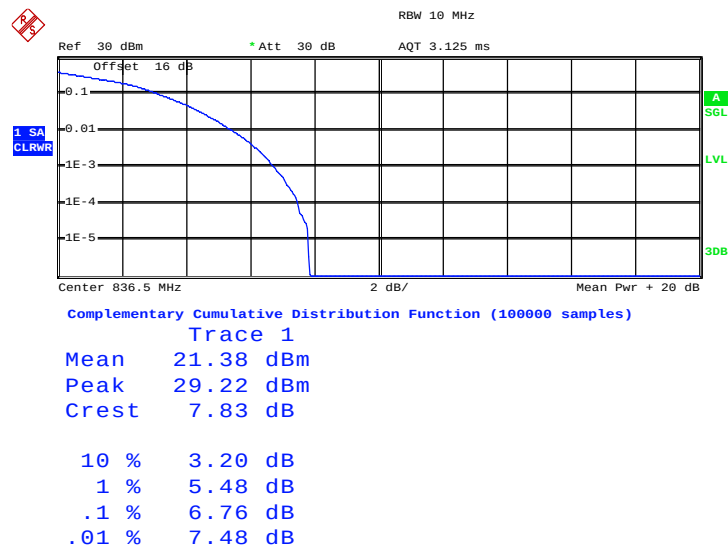
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Peak-to-Average Ratio on LTE Band 26 5MHz / QPSK



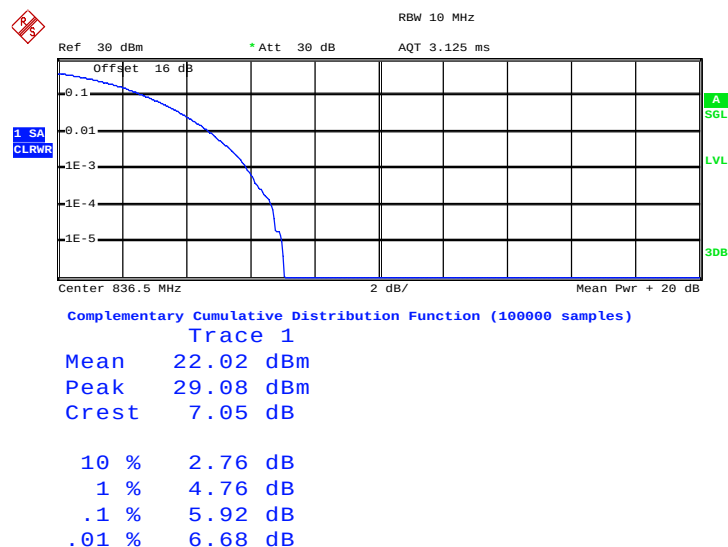
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Peak-to-Average Ratio on LTE Band 26 5MHz / 16QAM



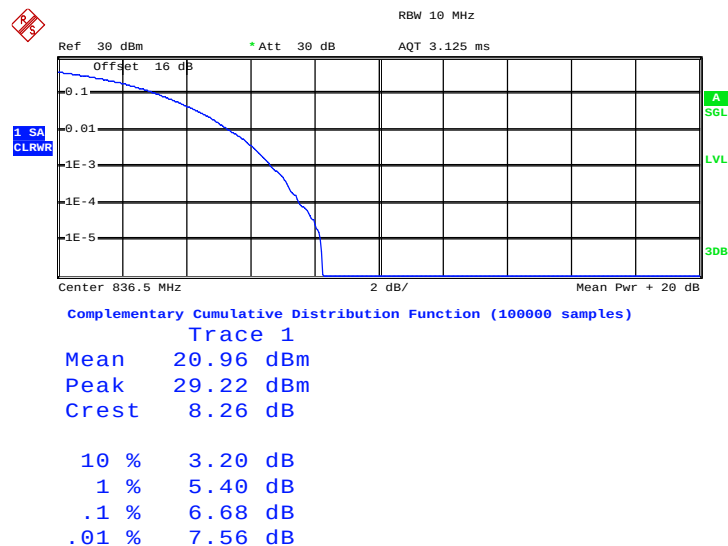
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Peak-to-Average Ratio on LTE Band 26 10MHz / QPSK

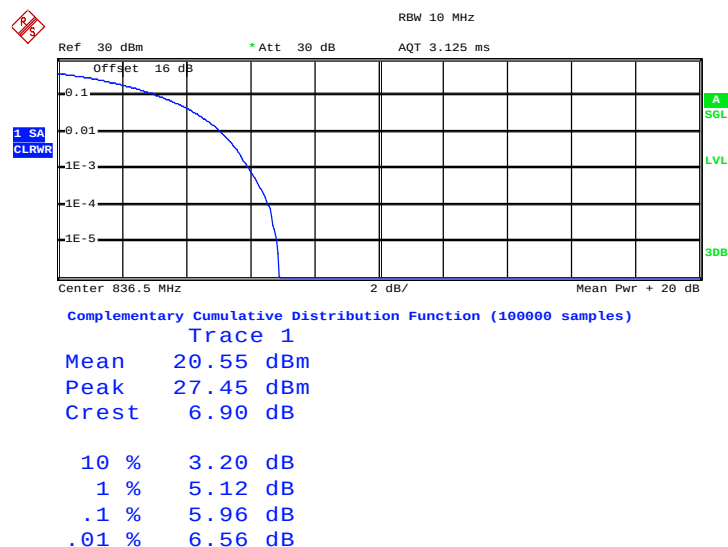


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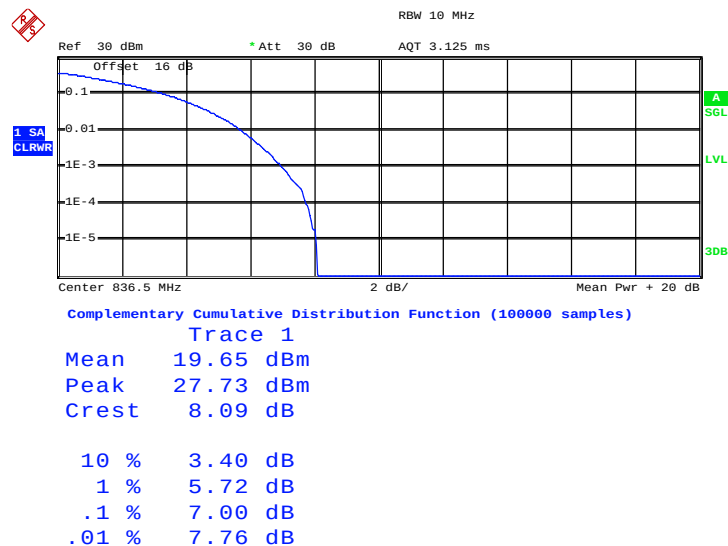
Peak-to-Average Ratio on LTE Band 26 10MHz / 16QAM



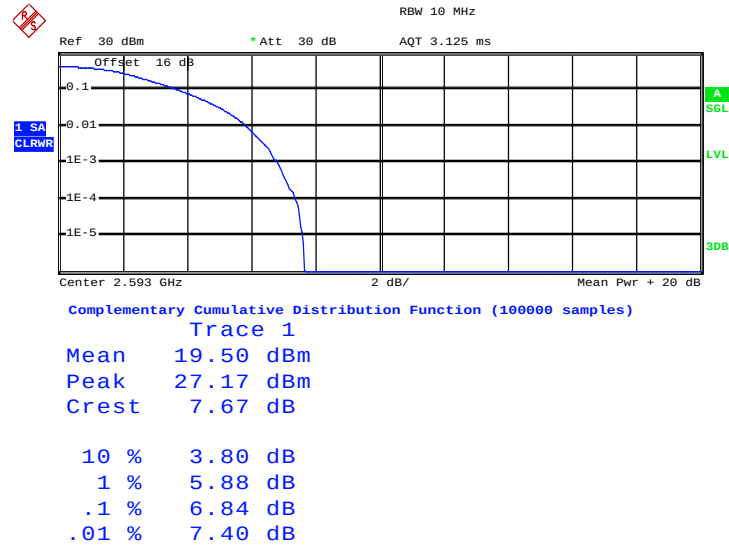
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Peak-to-Average Ratio on LTE Band 26 15MHz / QPSK


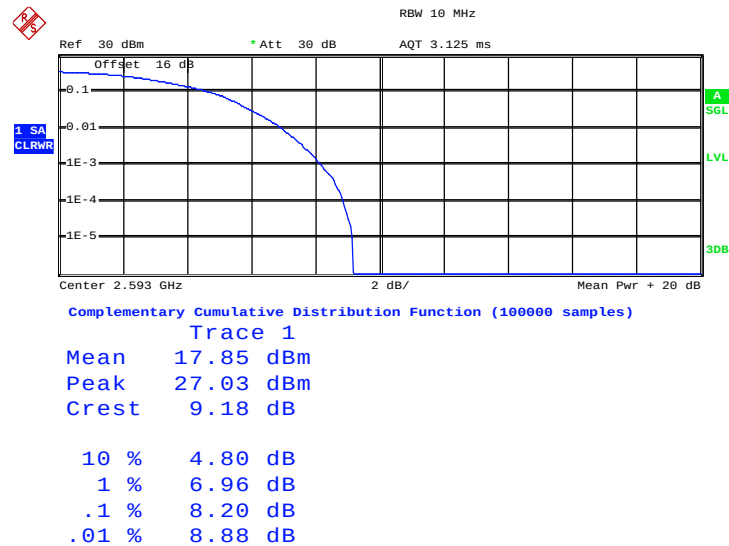
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Peak-to-Average Ratio on LTE Band 26 15MHz / 16QAM


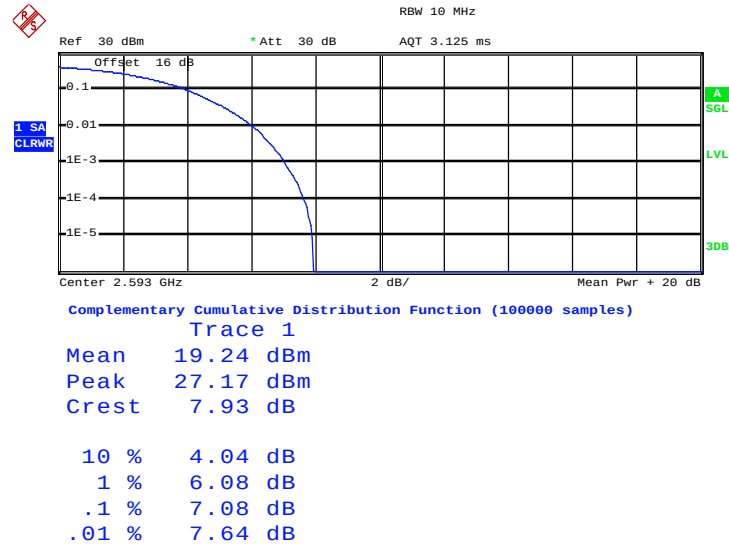
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Peak-to-Average Ratio on LTE Band 41 5MHz / QPSK


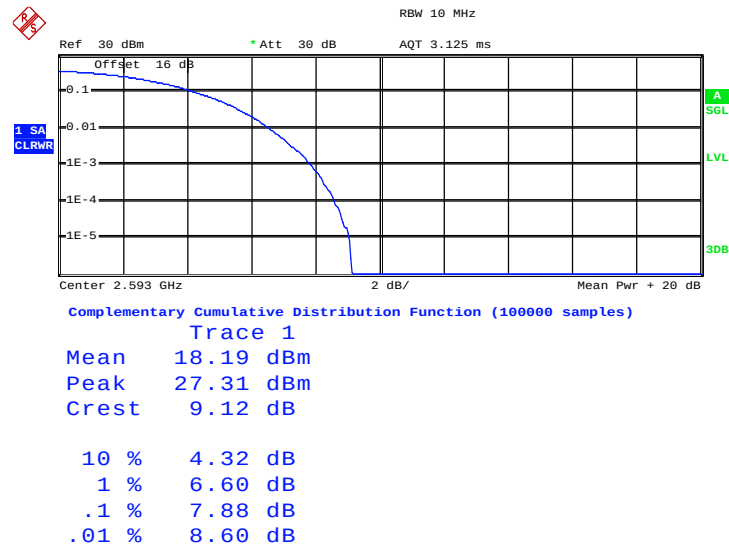
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Peak-to-Average Ratio on LTE Band 41 5MHz / 16QAM


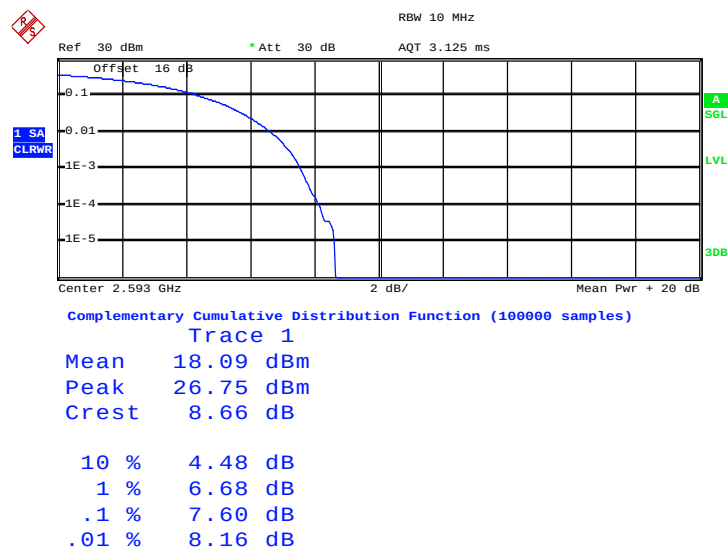
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Peak-to-Average Ratio on LTE Band 41 10MHz / QPSK


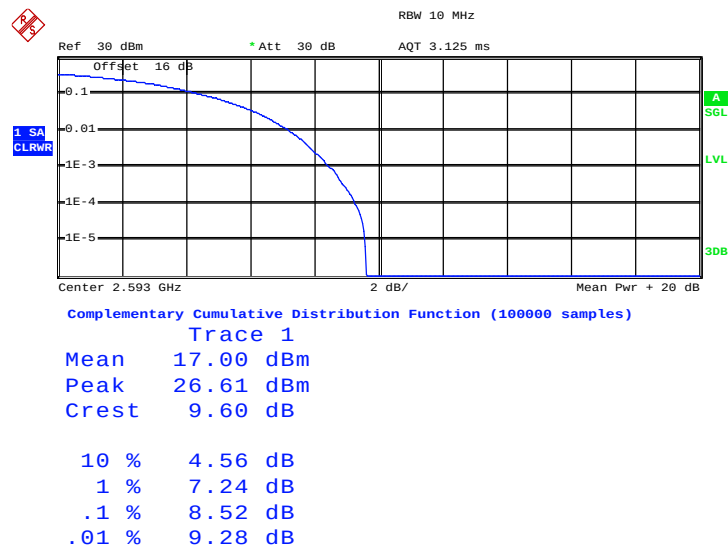
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Peak-to-Average Ratio on LTE Band 41 10MHz / 16QAM


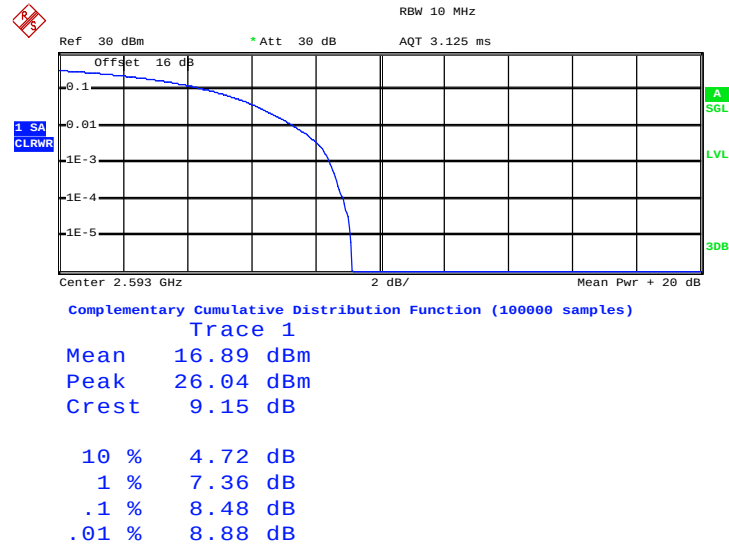
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Peak-to-Average Ratio on LTE Band 41 15MHz / QPSK


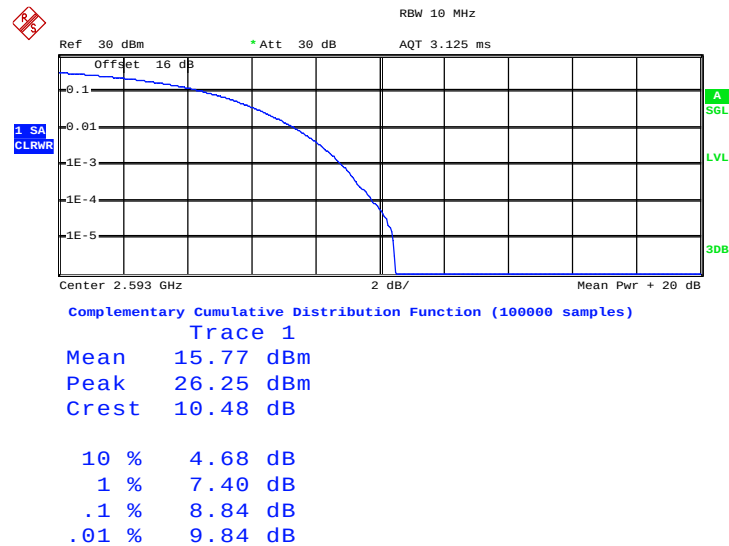
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Peak-to-Average Ratio on LTE Band 41 15MHz / 16QAM


Date: 13.MAR.2014 00:21:49

Peak-to-Average Ratio on LTE Band 41 20MHz / QPSK


Date: 13.MAR.2014 00:23:05

Peak-to-Average Ratio on LTE Band 41 20MHz / 16QAM


Date: 13.MAR.2014 00:22:51

3.3 Effective Radiated Power and Equivalent Isotropic Radiated Power Measurement

3.3.1 Description of the ERP/EIRP Measurement

Effective radiated power output measurements by substitution method according to ANSI / TIA / EIA-603-C-2004, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems v02r01. Mobile and portable (hand-held) stations operating are limited to average ERP of 7 watts with LTE band 26.

Equivalent isotropic radiated power output measurements by substitution method according to ANSI / TIA / EIA-603-C-2004, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems v02r01. Mobile and portable (hand-held) stations operating are limited to average EIRP of 2 watts with LTE band 25 and LTE band 41.

3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.3.3 Test Procedures

1. The EUT was placed on a turntable with 1.5 meter height in a fully anechoic chamber.
2. The EUT was set at 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and a spectrum analyzer which used a channel power option across EUT's signal bandwidth per section 4.0 of KDB 971168 D01.
4. The table was rotated 360 degrees to determine the position of the highest radiated power.
5. The height of the receiving antenna is adjusted to look for the maximum ERP/EIRP.
6. Taking the record of maximum ERP/EIRP.
7. A dipole antenna was substituted in place of the EUT and was driven by a signal generator.
8. The conducted power at the terminal of the dipole antenna is measured.
9. Repeat step 3 to step 5 to get the maximum ERP/EIRP of the substitution antenna.
10. $ERP/EIRP = P_s + E_t - E_s + G_s = P_s + R_t - R_s + G_s$

P_s (dBm) : Input power to substitution antenna.

G_s (dBi or dBd) : Substitution antenna Gain.

$E_t = R_t + AF$

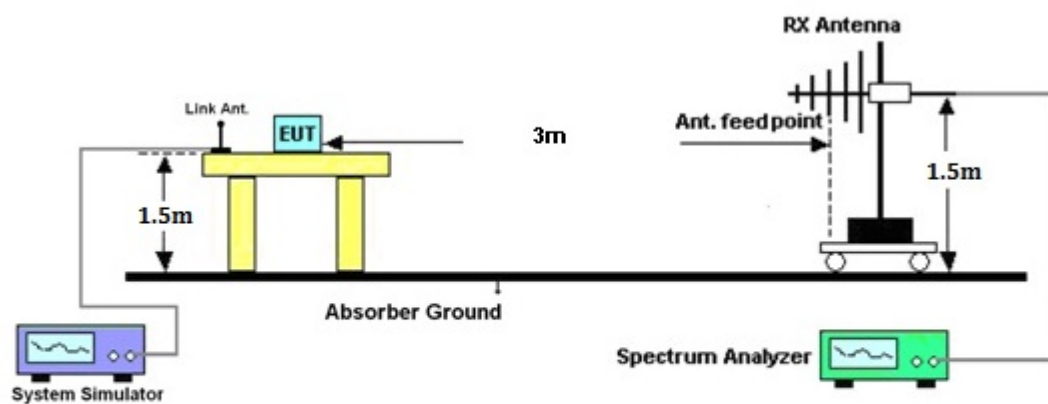
$E_s = R_s + AF$

AF (dB/m) : Receive antenna factor

R_t : The highest received signal in spectrum analyzer for EUT.

R_s : The highest received signal in spectrum analyzer for substitution antenna.

3.3.4 Test Setup



3.3.5 Test Result of ERP/EIRP

LTE Band 25 Radiated Power EIRP								
LTE Band	Channel BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	EIRP (dBm)	EIRP (W)	H/V
			RB Size	RB Offset				
25	1.4	QPSK	1	0	1850.7	22.30	0.17	H
25	1.4	QPSK	1	0	1880	23.56	0.23	H
25	1.4	QPSK	1	0	1914.3	22.72	0.19	H
25	1.4	QPSK	1	0	1850.7	25.79	0.38	V
25	1.4	QPSK	1	0	1880	25.20	0.33	V
25	1.4	QPSK	1	0	1914.3	24.13	0.26	V
25	1.4	16QAM	1	0	1850.7	21.31	0.14	H
25	1.4	16QAM	1	0	1880	22.44	0.18	H
25	1.4	16QAM	1	0	1914.3	21.62	0.15	H
25	1.4	16QAM	1	0	1850.7	24.74	0.30	V
25	1.4	16QAM	1	0	1880	24.18	0.26	V
25	1.4	16QAM	1	0	1914.3	23.04	0.20	V
25	3	QPSK	1	0	1851.5	22.30	0.17	H
25	3	QPSK	1	0	1880	23.58	0.23	H
25	3	QPSK	1	0	1913.5	23.05	0.20	H
25	3	QPSK	1	0	1851.5	25.63	0.37	V
25	3	QPSK	1	0	1880	25.26	0.34	V
25	3	QPSK	1	0	1913.5	24.70	0.30	V
25	3	16QAM	1	0	1851.5	21.30	0.13	H
25	3	16QAM	1	0	1880	22.44	0.18	H
25	3	16QAM	1	0	1913.5	21.98	0.16	H
25	3	16QAM	1	0	1851.5	24.61	0.29	V
25	3	16QAM	1	0	1880	24.15	0.26	V
25	3	16QAM	1	0	1913.5	23.63	0.23	V

LTE Band 25 Radiated Power EIRP								
LTE Band	Channel BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	EIRP (dBm)	EIRP (W)	H/V
			RB Size	RB Offset				
25	5	QPSK	1	0	1852.5	22.80	0.19	H
25	5	QPSK	1	0	1880	24.16	0.26	H
25	5	QPSK	1	0	1912.5	23.48	0.22	H
25	5	QPSK	1	0	1852.5	26.15	0.41	V
25	5	QPSK	1	0	1880	25.88	0.39	V
25	5	QPSK	1	0	1912.5	25.15	0.33	V
25	5	16QAM	1	0	1852.5	21.67	0.15	H
25	5	16QAM	1	0	1880	23.02	0.20	H
25	5	16QAM	1	0	1912.5	22.44	0.18	H
25	5	16QAM	1	0	1852.5	25.02	0.32	V
25	5	16QAM	1	0	1880	24.75	0.30	V
25	5	16QAM	1	0	1912.5	24.13	0.26	V
25	10	QPSK	1	0	1855	22.80	0.19	H
25	10	QPSK	1	0	1880	24.34	0.27	H
25	10	QPSK	1	0	1910	23.68	0.23	H
25	10	QPSK	1	0	1855	26.10	0.41	V
25	10	QPSK	1	0	1880	26.07	0.40	V
25	10	QPSK	1	0	1910	25.36	0.34	V
25	10	16QAM	1	0	1855	21.79	0.15	H
25	10	16QAM	1	0	1880	22.97	0.20	H
25	10	16QAM	1	0	1910	22.65	0.18	H
25	10	16QAM	1	0	1855	25.15	0.33	V
25	10	16QAM	1	0	1880	24.69	0.29	V
25	10	16QAM	1	0	1910	24.33	0.27	V

LTE Band 25 Radiated Power EIRP								
LTE Band	Channel BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	EIRP (dBm)	EIRP (W)	H/V
			RB Size	RB Offset				
25	15	QPSK	1	0	1857.5	22.42	0.17	H
25	15	QPSK	1	0	1880	23.69	0.23	H
25	15	QPSK	1	0	1907.5	22.88	0.19	H
25	15	QPSK	1	0	1857.5	25.65	0.37	V
25	15	QPSK	1	0	1880	25.51	0.36	V
25	15	QPSK	1	0	1907.5	24.69	0.29	V
25	15	16QAM	1	0	1857.5	21.30	0.13	H
25	15	16QAM	1	0	1880	22.62	0.18	H
25	15	16QAM	1	0	1907.5	21.97	0.16	H
25	15	16QAM	1	0	1857.5	24.56	0.29	V
25	15	16QAM	1	0	1880	24.55	0.29	V
25	15	16QAM	1	0	1907.5	23.60	0.23	V
25	20	QPSK	1	0	1860	22.48	0.18	H
25	20	QPSK	1	0	1880	25.95	0.39	H
25	20	QPSK	1	0	1905	23.23	0.21	H
25	20	QPSK	1	0	1860	25.75	0.38	V
25	20	QPSK	1	0	1880	26.94	0.49	V
25	20	QPSK	1	0	1905	24.78	0.30	V
25	20	16QAM	1	0	1860	21.49	0.14	H
25	20	16QAM	1	0	1880	22.72	0.19	H
25	20	16QAM	1	0	1905	22.31	0.17	H
25	20	16QAM	1	0	1860	24.83	0.30	V
25	20	16QAM	1	0	1880	24.75	0.30	V
25	20	16QAM	1	0	1905	23.84	0.24	V

LTE Band 26 Radiated Power ERP								
LTE Band	Channel BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	ERP (dBm)	ERP (W)	H/V
			RB Size	RB Offset				
26	1.4	QPSK	1	0	824.7	22.58	0.18	H
26	1.4	QPSK	1	0	836.5	22.86	0.19	H
26	1.4	QPSK	1	0	848.3	21.94	0.16	H
26	1.4	QPSK	1	0	824.7	22.42	0.17	V
26	1.4	QPSK	1	0	836.5	22.66	0.18	V
26	1.4	QPSK	1	0	848.3	21.47	0.14	V
26	1.4	16QAM	1	0	824.7	21.97	0.16	H
26	1.4	16QAM	1	0	836.5	22.20	0.17	H
26	1.4	16QAM	1	0	848.3	21.41	0.14	H
26	1.4	16QAM	1	0	824.7	22.10	0.16	V
26	1.4	16QAM	1	0	836.5	22.04	0.16	V
26	1.4	16QAM	1	0	848.3	20.97	0.13	V
26	3	QPSK	1	0	825.5	22.39	0.17	H
26	3	QPSK	1	0	836.5	22.82	0.19	H
26	3	QPSK	1	0	847.5	21.61	0.14	H
26	3	QPSK	1	0	825.5	22.37	0.17	V
26	3	QPSK	1	0	836.5	22.89	0.19	V
26	3	QPSK	1	0	847.5	21.17	0.13	V
26	3	16QAM	1	0	825.5	21.93	0.16	H
26	3	16QAM	1	0	836.5	22.21	0.17	H
26	3	16QAM	1	0	847.5	21.18	0.13	H
26	3	16QAM	1	0	825.5	22.02	0.16	V
26	3	16QAM	1	0	836.5	22.30	0.17	V
26	3	16QAM	1	0	847.5	20.73	0.12	V

LTE Band 26 Radiated Power ERP								
LTE Band	Channel BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	ERP (dBm)	ERP (W)	H/V
			RB Size	RB Offset				
26	5	QPSK	1	0	826.5	22.55	0.18	H
26	5	QPSK	1	0	836.5	22.92	0.20	H
26	5	QPSK	1	0	846.5	21.45	0.14	H
26	5	QPSK	1	0	826.5	22.39	0.17	V
26	5	QPSK	1	0	836.5	22.81	0.19	V
26	5	QPSK	1	0	846.5	21.21	0.13	V
26	5	16QAM	1	0	826.5	21.95	0.16	H
26	5	16QAM	1	0	836.5	22.35	0.17	H
26	5	16QAM	1	0	846.5	20.62	0.12	H
26	5	16QAM	1	0	826.5	22.03	0.16	V
26	5	16QAM	1	0	836.5	22.30	0.17	V
26	5	16QAM	1	0	846.5	20.54	0.11	V
26	10	QPSK	1	0	829	21.99	0.16	H
26	10	QPSK	1	0	836.5	22.30	0.17	H
26	10	QPSK	1	0	844	22.01	0.16	H
26	10	QPSK	1	0	829	21.88	0.15	V
26	10	QPSK	1	0	836.5	22.15	0.16	V
26	10	QPSK	1	0	844	21.59	0.14	V
26	10	16QAM	1	0	829	21.69	0.15	H
26	10	16QAM	1	0	836.5	21.89	0.15	H
26	10	16QAM	1	0	844	21.51	0.14	H
26	10	16QAM	1	0	829	21.97	0.16	V
26	10	16QAM	1	0	836.5	21.85	0.15	V
26	10	16QAM	1	0	844	21.13	0.13	V

LTE Band 26 Radiated Power ERP								
LTE Band	Channel BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	ERP (dBm)	ERP (W)	H/V
			RB Size	RB Offset				
26	15	QPSK	1	0	831.5	21.68	0.15	H
26	15	QPSK	1	0	836.5	21.70	0.15	H
26	15	QPSK	1	0	841.5	22.22	0.17	H
26	15	QPSK	1	0	831.5	21.50	0.14	V
26	15	QPSK	1	0	836.5	21.60	0.14	V
26	15	QPSK	1	0	841.5	22.11	0.16	V
26	15	16QAM	1	0	831.5	21.65	0.15	H
26	15	16QAM	1	0	836.5	21.37	0.14	H
26	15	16QAM	1	0	841.5	21.66	0.15	H
26	15	16QAM	1	0	831.5	21.37	0.14	V
26	15	16QAM	1	0	836.5	21.52	0.14	V
26	15	16QAM	1	0	841.5	21.69	0.15	V

LTE Band 41 Radiated Power EIRP								
LTE Band	Channel BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	EIRP (dBm)	EIRP (W)	H/V
			RB Size	RB Offset				
41	5	QPSK	1	0	2498.5	25.45	0.35	H
41	5	QPSK	1	0	2593	25.89	0.39	H
41	5	QPSK	1	0	2687.5	25.47	0.35	H
41	5	QPSK	1	0	2498.5	27.40	0.55	V
41	5	QPSK	1	0	2593	27.41	0.55	V
41	5	QPSK	1	0	2687.5	27.76	0.60	V
41	5	16QAM	1	0	2498.5	25.46	0.35	H
41	5	16QAM	1	0	2593	25.19	0.33	H
41	5	16QAM	1	0	2687.5	24.63	0.29	H
41	5	16QAM	1	0	2498.5	27.34	0.54	V
41	5	16QAM	1	0	2593	26.63	0.46	V
41	5	16QAM	1	0	2687.5	27.00	0.50	V
41	10	QPSK	1	0	2501	25.92	0.39	H
41	10	QPSK	1	0	2593	26.07	0.40	H
41	10	QPSK	1	0	2685	25.30	0.34	H
41	10	QPSK	1	0	2501	27.75	0.60	V
41	10	QPSK	1	0	2593	27.64	0.58	V
41	10	QPSK	1	0	2685	27.62	0.58	V
41	10	16QAM	1	0	2501	25.08	0.32	H
41	10	16QAM	1	0	2593	25.10	0.32	H
41	10	16QAM	1	0	2685	24.49	0.28	H
41	10	16QAM	1	0	2501	26.96	0.50	V
41	10	16QAM	1	0	2593	26.72	0.47	V
41	10	16QAM	1	0	2685	26.79	0.48	V

LTE Band 41 Radiated Power EIRP								
LTE Band	Channel BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	EIRP (dBm)	EIRP (W)	H/V
			RB Size	RB Offset				
41	15	QPSK	1	0	2503.5	25.87	0.39	H
41	15	QPSK	1	0	2593	25.65	0.37	H
41	15	QPSK	1	0	2682.5	24.78	0.30	H
41	15	QPSK	1	0	2503.5	27.71	0.59	V
41	15	QPSK	1	0	2593	27.27	0.53	V
41	15	QPSK	1	0	2682.5	27.06	0.51	V
41	15	16QAM	1	0	2503.5	25.05	0.32	H
41	15	16QAM	1	0	2593	24.92	0.31	H
41	15	16QAM	1	0	2682.5	24.24	0.27	H
41	15	16QAM	1	0	2503.5	26.89	0.49	V
41	15	16QAM	1	0	2593	26.52	0.45	V
41	15	16QAM	1	0	2682.5	26.56	0.45	V
41	20	QPSK	1	0	2506	25.90	0.39	H
41	20	QPSK	1	0	2593	25.73	0.37	H
41	20	QPSK	1	0	2680	24.74	0.30	H
41	20	QPSK	1	0	2506	27.73	0.59	V
41	20	QPSK	1	0	2593	27.26	0.53	V
41	20	QPSK	1	0	2680	27.05	0.51	V
41	20	16QAM	1	0	2506	24.93	0.31	H
41	20	16QAM	1	0	2593	24.88	0.31	H
41	20	16QAM	1	0	2680	23.86	0.24	H
41	20	16QAM	1	0	2506	26.77	0.48	V
41	20	16QAM	1	0	2593	26.42	0.44	V
41	20	16QAM	1	0	2680	26.16	0.41	V

3.4 99% Occupied Bandwidth and 26dB Bandwidth Measurement

3.4.1 Description of 99% Occupied Bandwidth and 26dB Bandwidth Measurement

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26dB occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal 26 dB.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

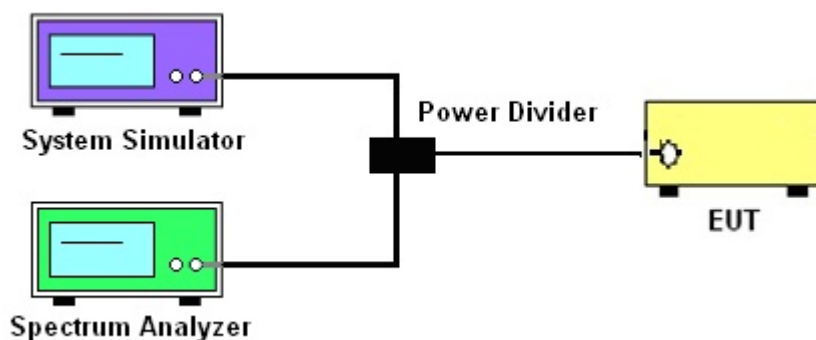
3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.4.3 Test Procedures

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The 26dB and 99% occupied bandwidth (BW) of the middle channel for the highest RF powers with full RB sizes were measured.

3.4.4 Test Setup



3.4.5 Test Result of 99% Occupied Bandwidth and 26dB Bandwidth

Modes	LTE Band 25			
BW / Mod.	1.4MHz / QPSK	1.4MHz / 16QAM	3MHz / QPSK	3MHz / 16QAM
99% OBW (MHz)	1.0976	1.1032	2.7360	2.7360
26dB BW (MHz)	1.2992	1.2768	3.0840	3.120
BW / Mod.	5MHz / QPSK	5MHz / 16QAM	10MHz / QPSK	10MHz / 16QAM
99% OBW (MHz)	4.5000	4.5000	9.1600	9.1200
26dB BW (MHz)	5.0000	4.9800	10.0800	10.0000
BW / Mod.	15MHz / QPSK	15MHz / 16QAM	20MHz / QPSK	20MHz / 16QAM
99% OBW (MHz)	13.5000	13.5600	18.8000	18.8000
26dB BW (MHz)	14.5800	14.8200	21.2000	21.2800

Modes	LTE Band 26			
BW / Mod.	1.4MHz / QPSK	1.4MHz / 16QAM	3MHz / QPSK	3MHz / 16QAM
99% OBW (MHz)	1.0976	1.0976	2.7360	2.7360
26dB BW (MHz)	1.2992	1.3104	3.1080	3.1200
BW / Mod.	5MHz / QPSK	5MHz / 16QAM	10MHz / QPSK	10MHz / 16QAM
99% OBW (MHz)	4.5200	4.5200	9.1600	9.1600
26dB BW (MHz)	5.0800	5.0800	10.1600	10.0800
BW / Mod.	15MHz / QPSK	15MHz / 16QAM		
99% OBW (MHz)	13.6200	13.6200		
26dB BW (MHz)	14.8800	15.1200		

Modes	LTE Band 41			
BW / Mod.	5MHz / QPSK	5MHz / 16QAM	10MHz / QPSK	10MHz / 16QAM
99% OBW (MHz)	4.5200	4.5200	9.1200	9.0800
26dB BW (MHz)	5.0400	5.0000	10.0000	10.0000
BW / Mod.	15MHz / QPSK	15MHz / 16QAM	20MHz / QPSK	20MHz / 16QAM
99% OBW (MHz)	13.5600	13.5600	18.6400	18.6400
26dB BW (MHz)	14.7000	14.7000	21.0400	21.1200

Note:

The maximum RB configurations of the 99% Occupied Bandwidth and 26dB Bandwidth summary as below:

BW1.4MHz RB setting : RB Size 6, RB offset 0

BW3.0MHz RB setting : RB Size 15, RB offset 0

BW5.0MHz RB setting : RB Size 25, RB offset 0

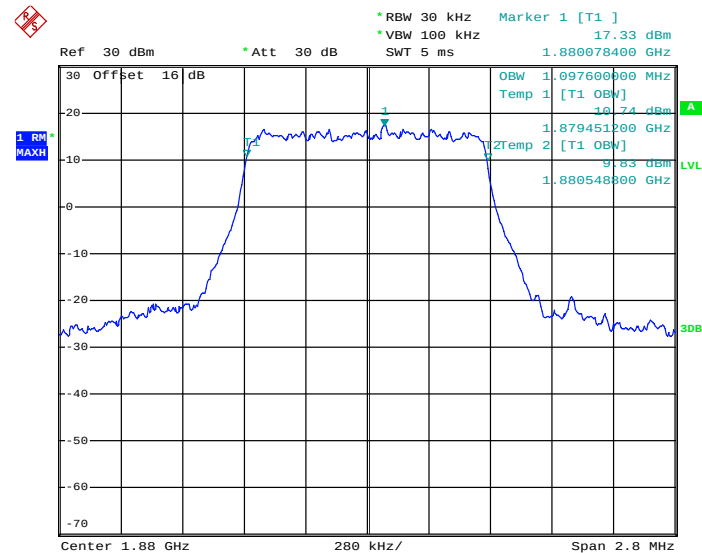
BW10MHz RB setting : RB Size 50, RB offset 0

BW15MHz RB setting : RB Size 75, RB offset 0

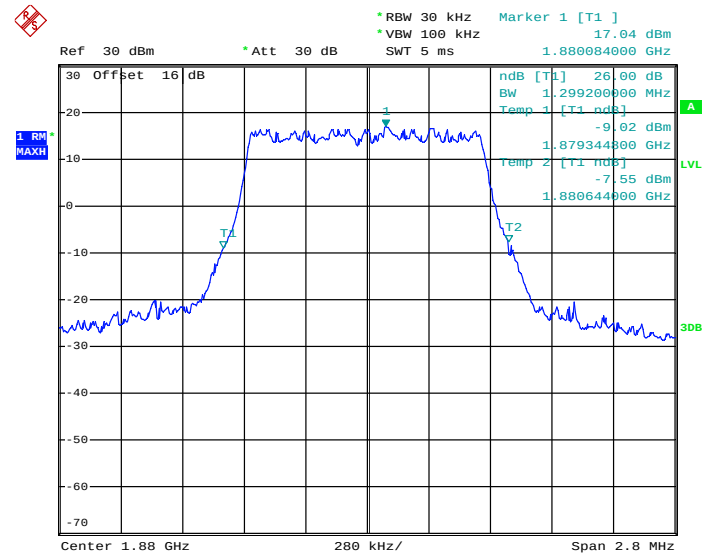
BW20MHz RB setting : RB Size 100, RB offset 0

3.4.6 Test Result (Plots) of 99% Occupied Bandwidth and 26dB Bandwidth

Band :	LTE Band 25	BW / Mod. :	1.4MHz / QPSK
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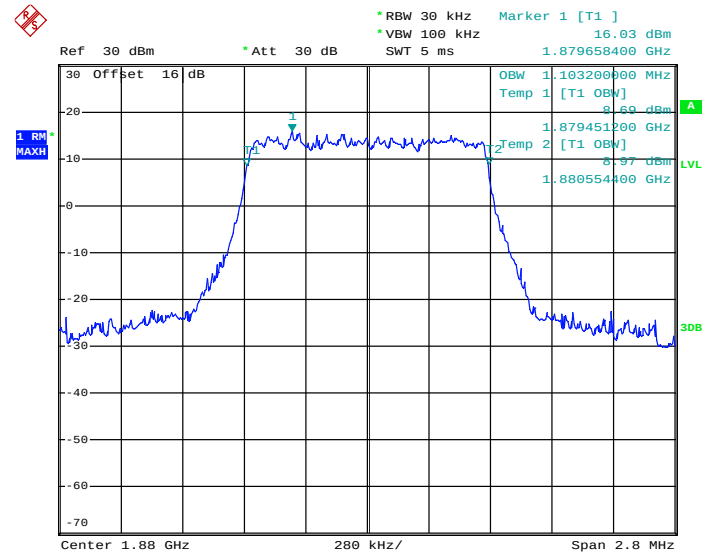
99% Occupied Bandwidth Plot on Channel 26340


Date: 10.MAR.2014 20:04:58

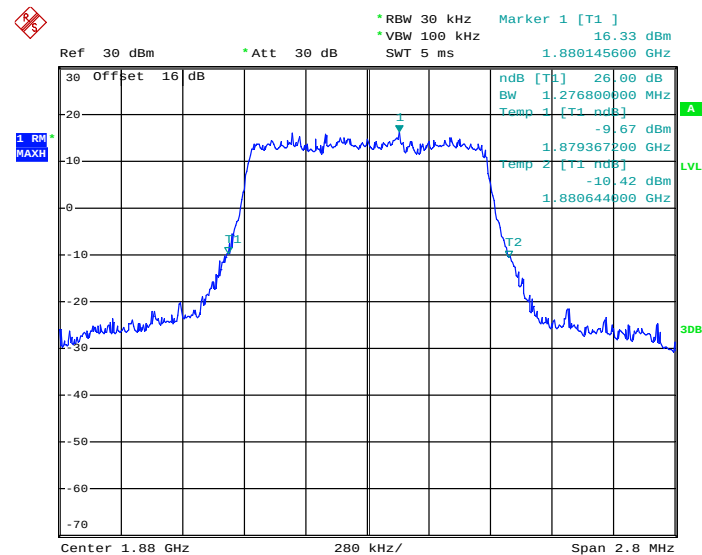
26dB Bandwidth Plot on Channel 26340


Date: 10.MAR.2014 19:47:31

Band :	LTE Band 25	BW / Mod. :	1.4MHz / 16QAM
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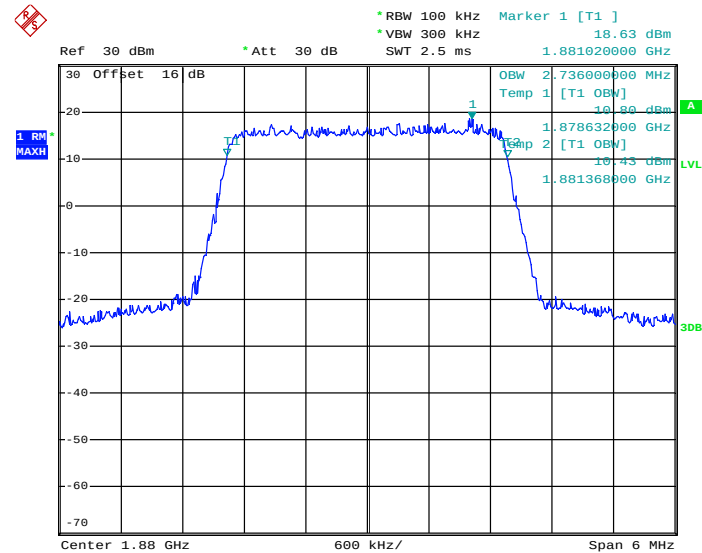
99% Occupied Bandwidth Plot on Channel 26340


Date: 10.MAR.2014 20:05:12

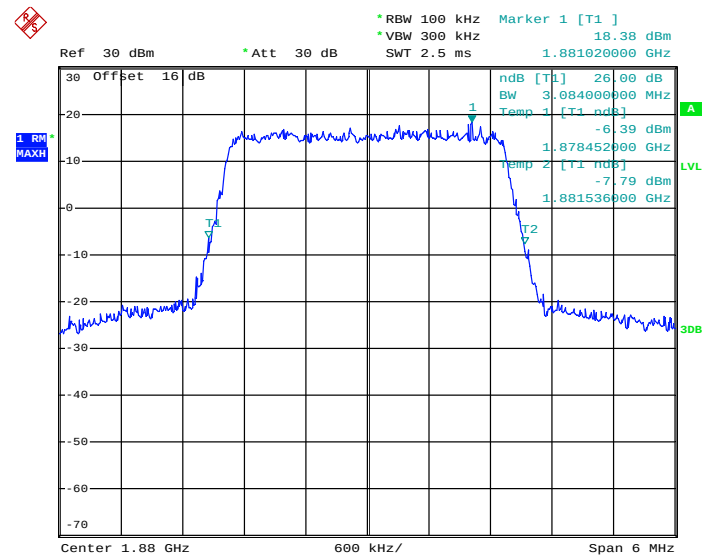
26dB Bandwidth Plot on Channel 26340


Date: 10.MAR.2014 19:47:44

Band :	LTE Band 25	BW / Mod. :	3MHz / QPSK
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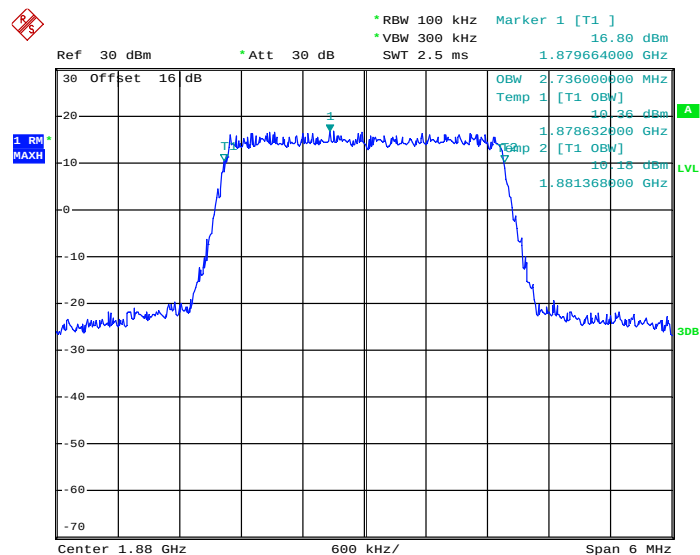
99% Occupied Bandwidth Plot on Channel 26340


Date: 10.MAR.2014 20:07:40

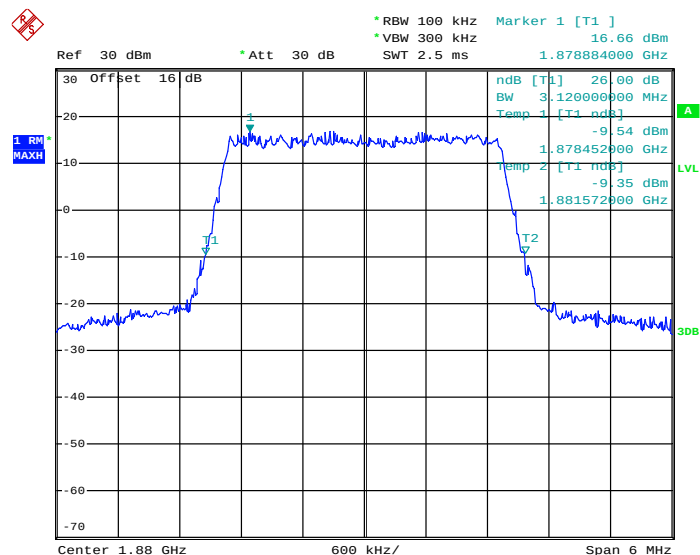
26dB Bandwidth Plot on Channel 26340


Date: 10.MAR.2014 19:48:34

Band :	LTE Band 25	BW / Mod. :	3MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 26340


Date: 10.MAR.2014 20:07:53

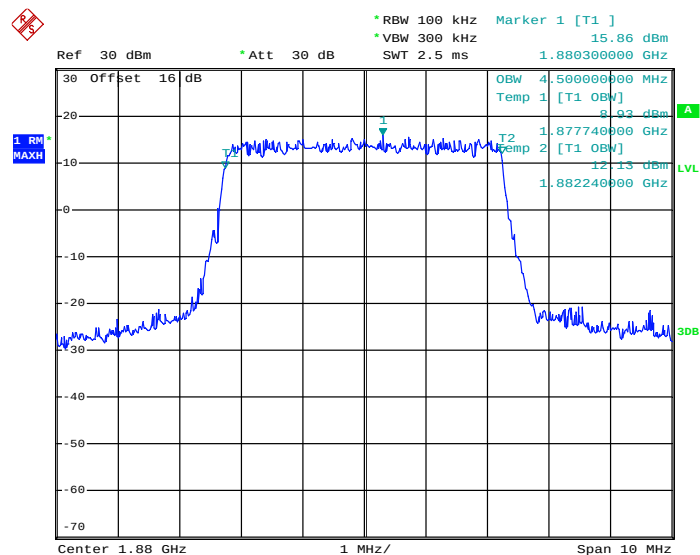
26dB Bandwidth Plot on Channel 26340


Date: 10.MAR.2014 19:48:21



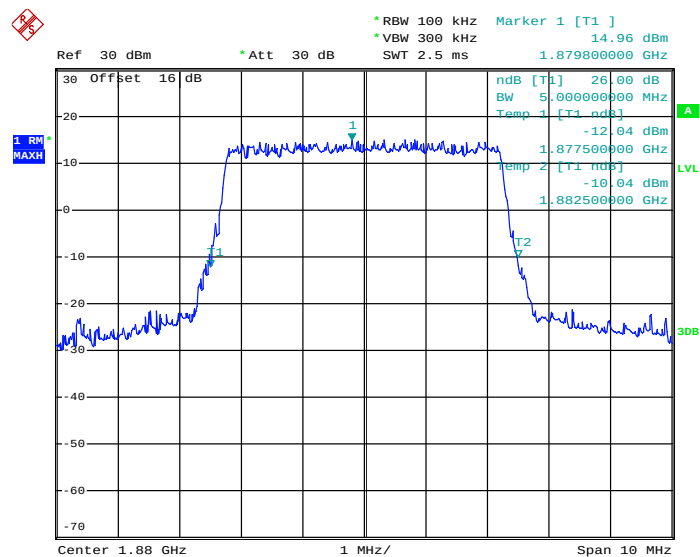
Band :	LTE Band 25	BW / Mod. :	5MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 26340



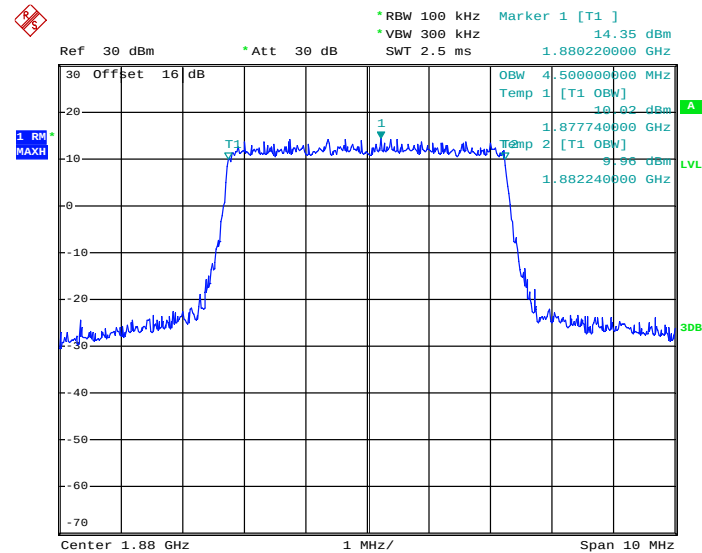
Date: 10.MAR.2014 20:09:38

26dB Bandwidth Plot on Channel 26340

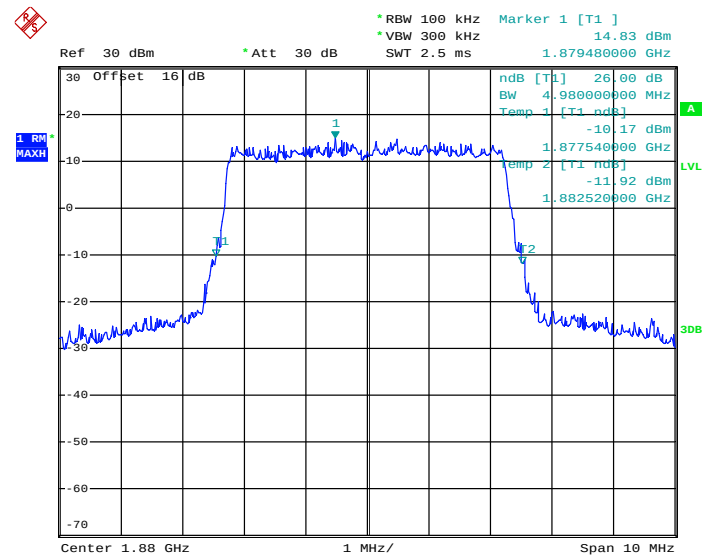


Date: 10.MAR.2014 19:49:03

Band :	LTE Band 25	BW / Mod. :	5MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 26340


Date: 10.MAR.2014 20:09:49

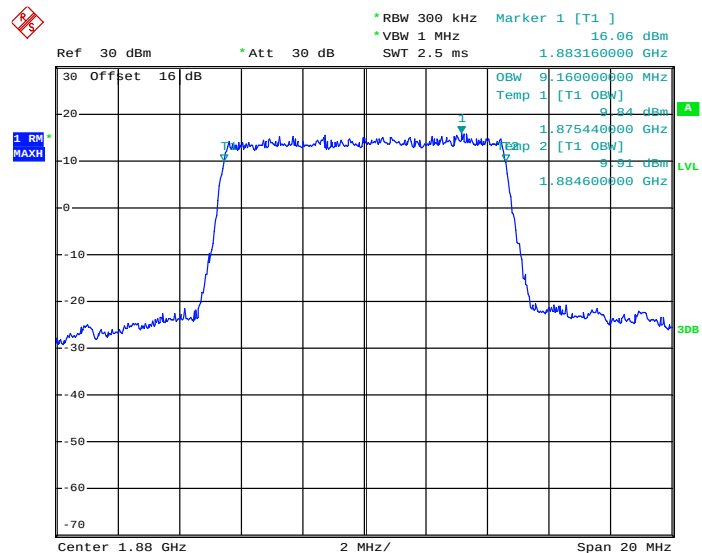
26dB Bandwidth Plot on Channel 26340


Date: 10.MAR.2014 19:49:18



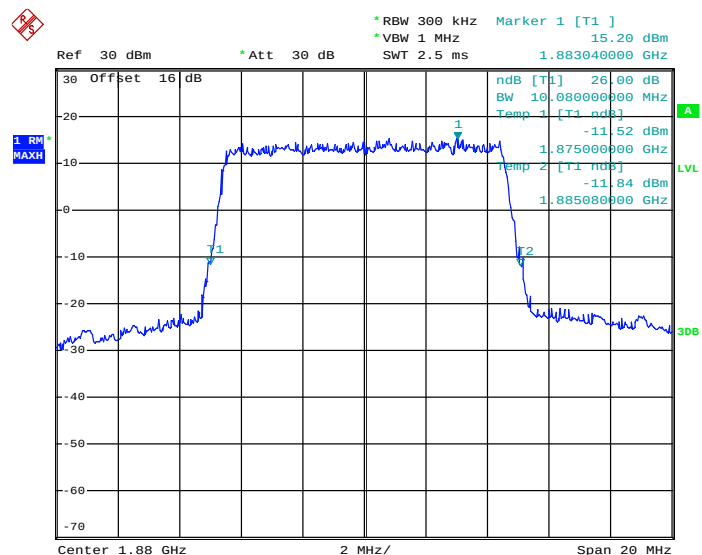
Band :	LTE Band 25	BW / Mod. :	10MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 26340



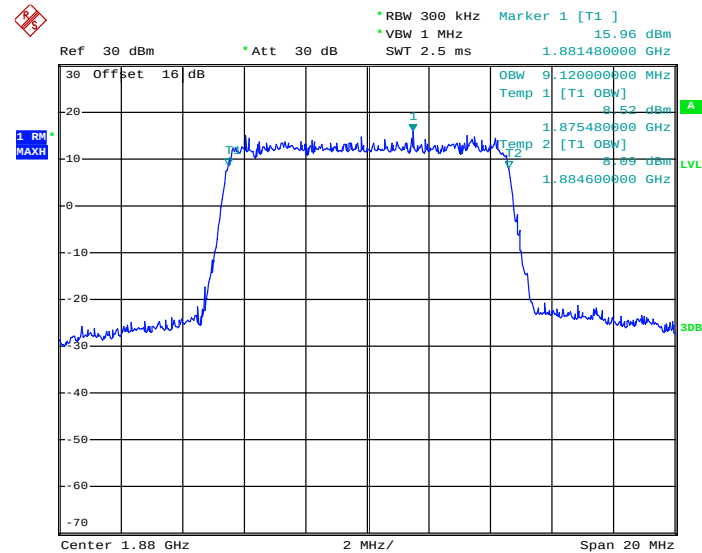
Date: 10.MAR.2014 20:12:28

26dB Bandwidth Plot on Channel 26340

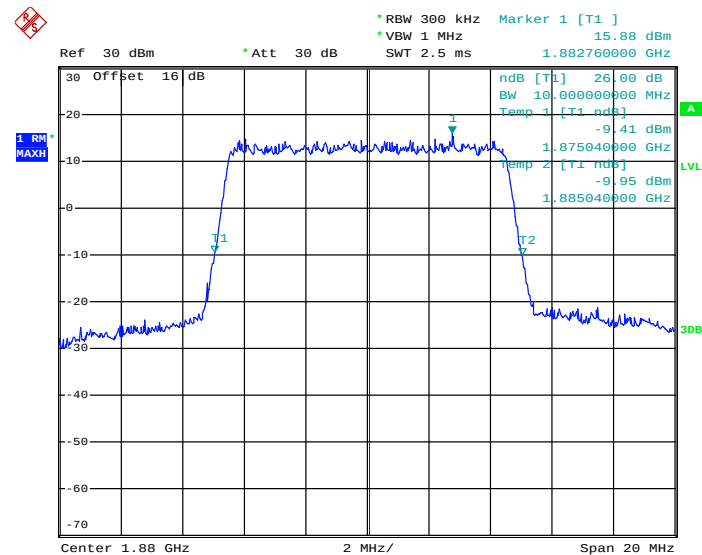


Date: 10.MAR.2014 19:50:10

Band :	LTE Band 25	BW / Mod. :	10MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 26340


Date: 10.MAR.2014 20:12:40

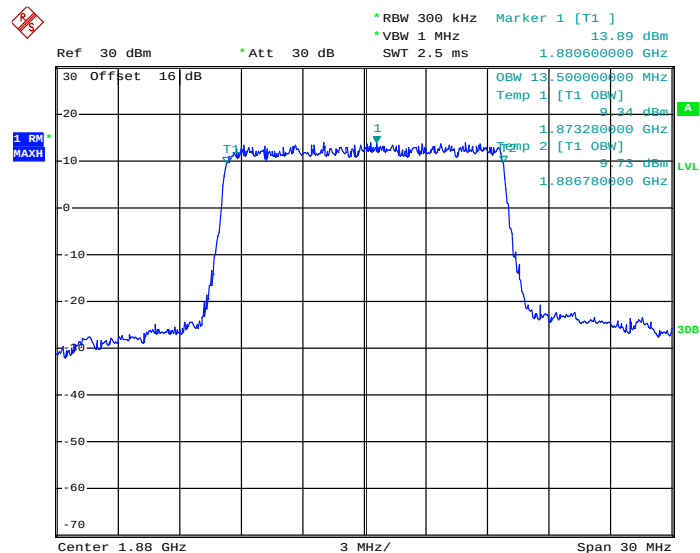
26dB Bandwidth Plot on Channel 26340


Date: 10.MAR.2014 19:49:56



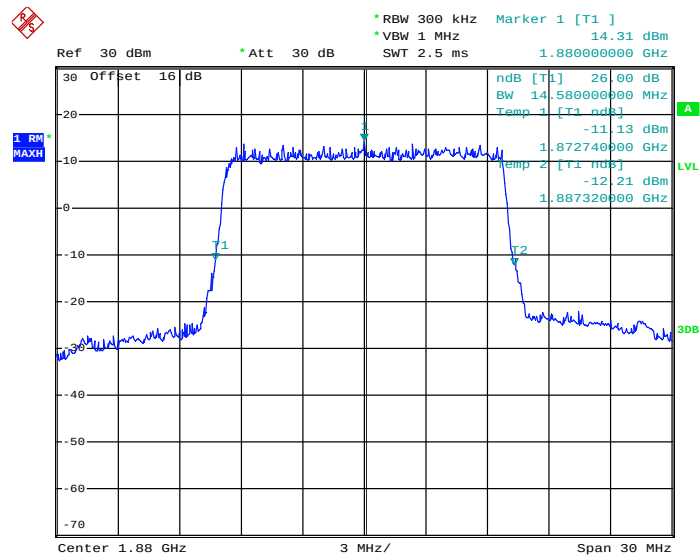
Band :	LTE Band 25	BW / Mod. :	15MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 26340



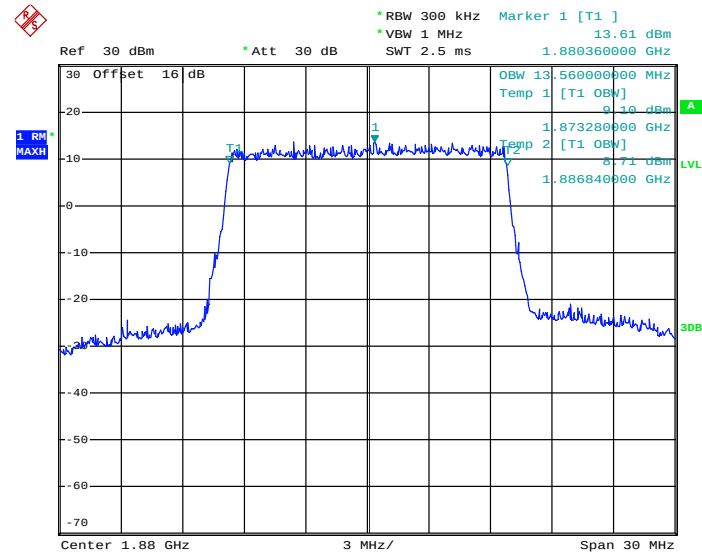
Date: 10.MAR.2014 20:14:44

26dB Bandwidth Plot on Channel 26340

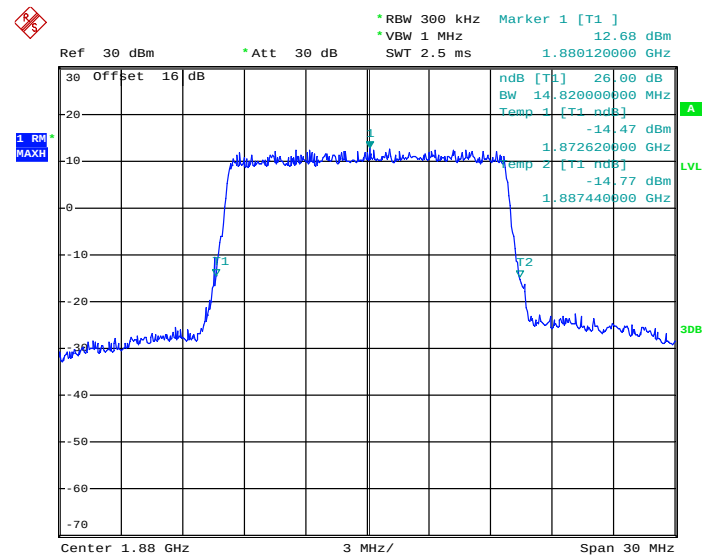


Date: 10.MAR.2014 19:50:37

Band :	LTE Band 25	BW / Mod. :	15MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 26340


Date: 10.MAR.2014 20:15:23

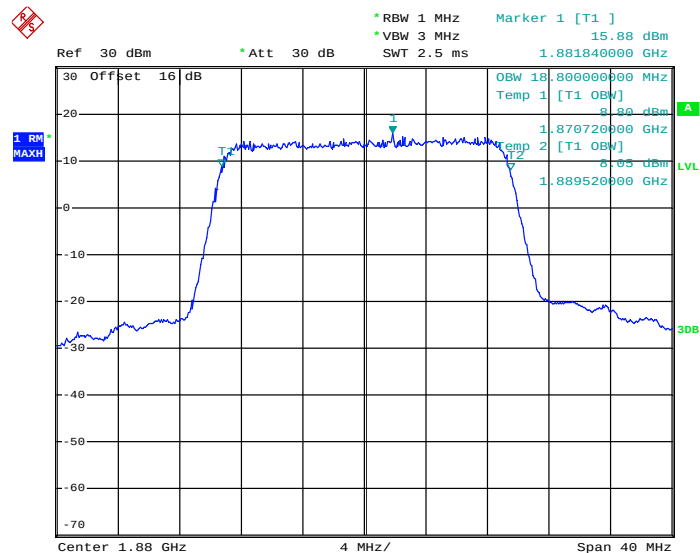
26dB Bandwidth Plot on Channel 26340


Date: 10.MAR.2014 19:50:51



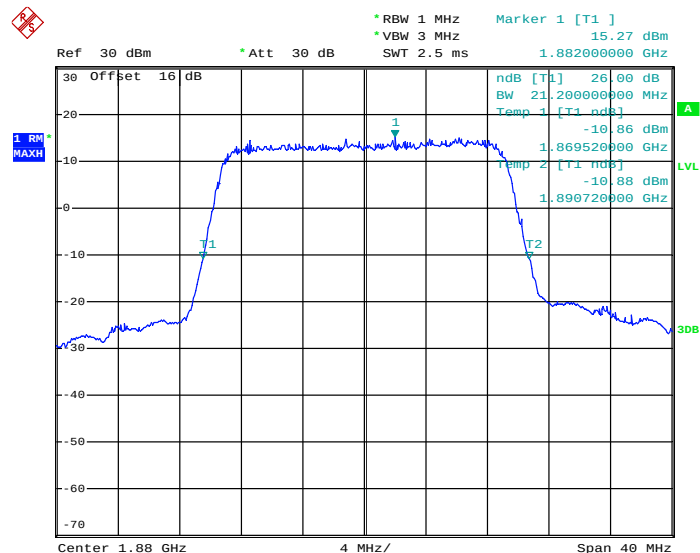
Band :	LTE Band 25	BW / Mod. :	20MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 26340



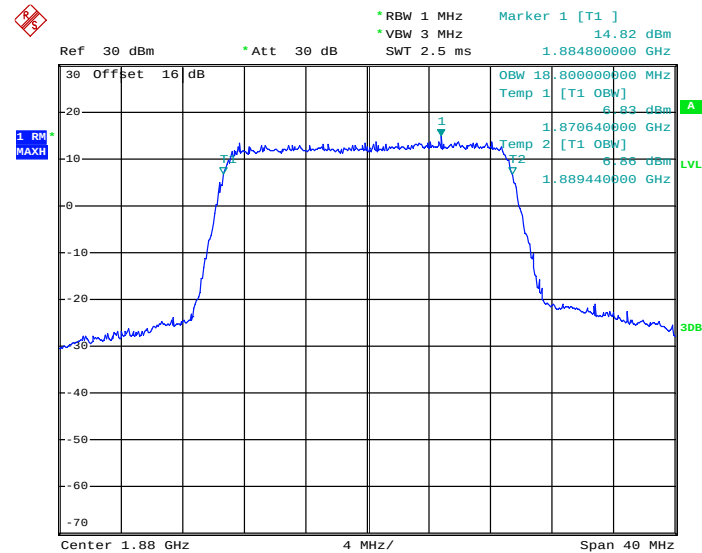
Date: 10.MAR.2014 20:17:57

26dB Bandwidth Plot on Channel 26340

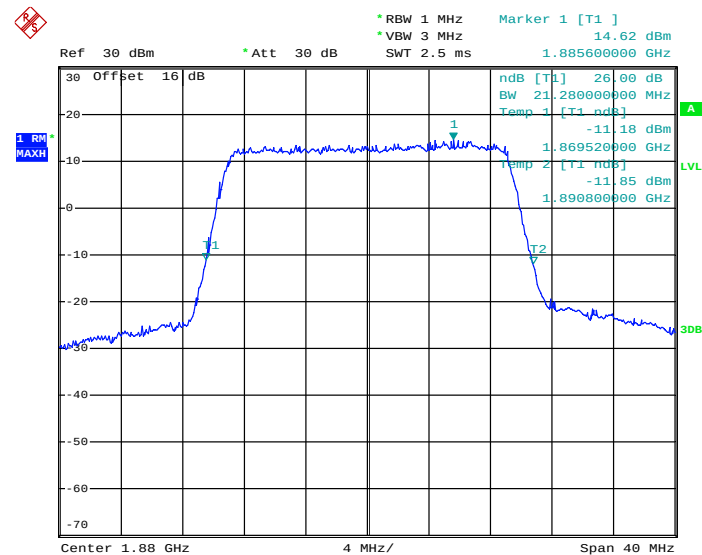


Date: 10.MAR.2014 19:51:46

Band :	LTE Band 25	BW / Mod. :	20MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 26340


Date: 10.MAR.2014 20:18:08

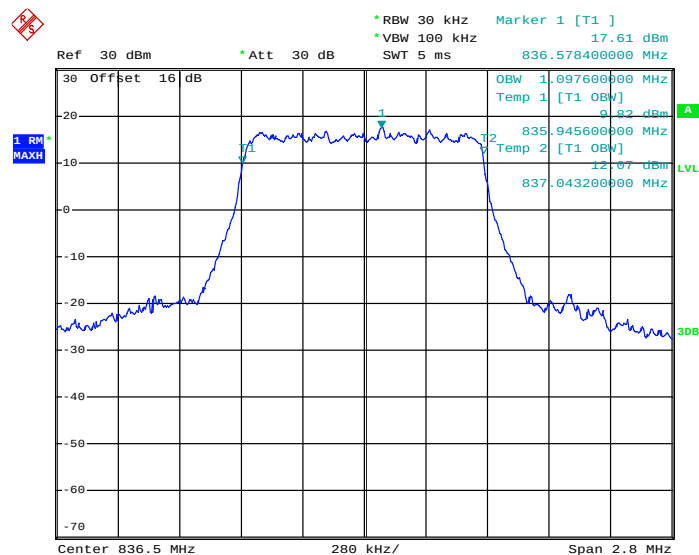
26dB Bandwidth Plot on Channel 26340


Date: 10.MAR.2014 19:51:28



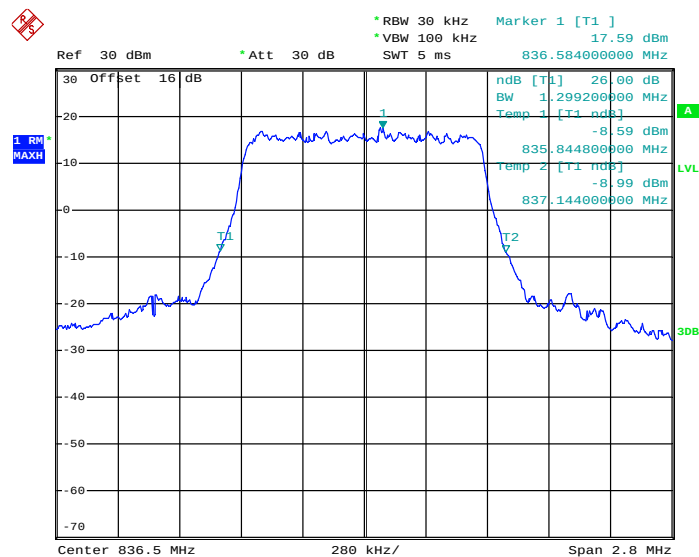
Band :	LTE Band 26	BW / Mod. :	1.4MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 26915



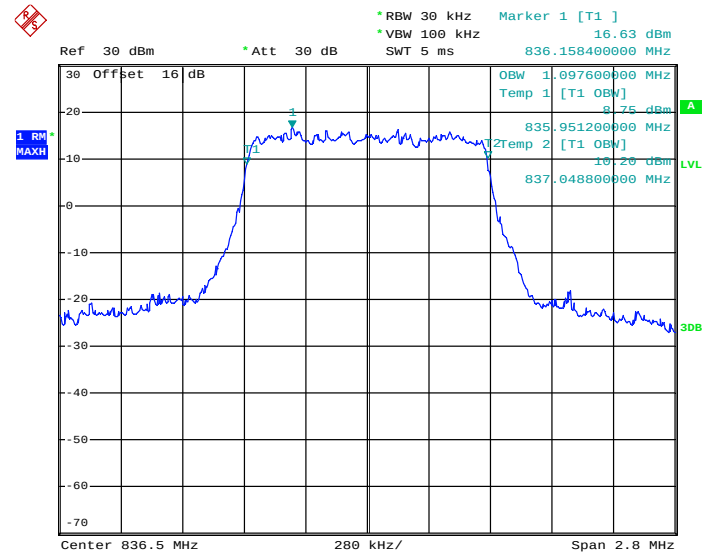
Date: 10.MAR.2014 11:40:44

26dB Bandwidth Plot on Channel 26915

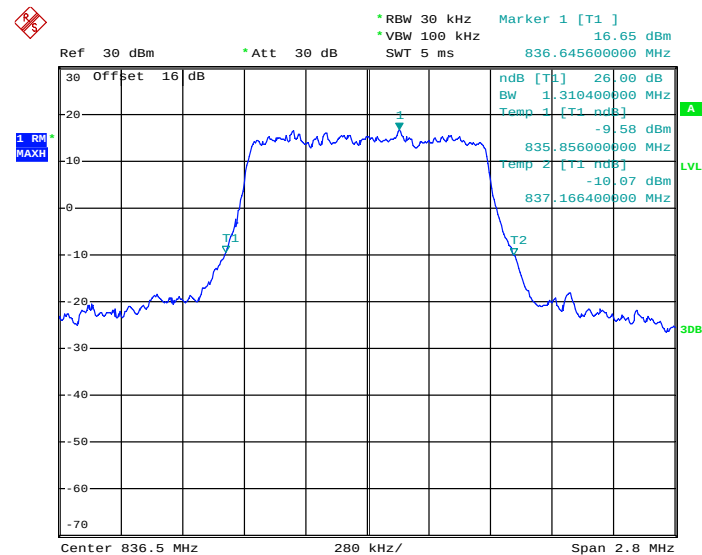


Date: 10.MAR.2014 11:17:36

Band :	LTE Band 26	BW / Mod. :	1.4MHz / 16QAM
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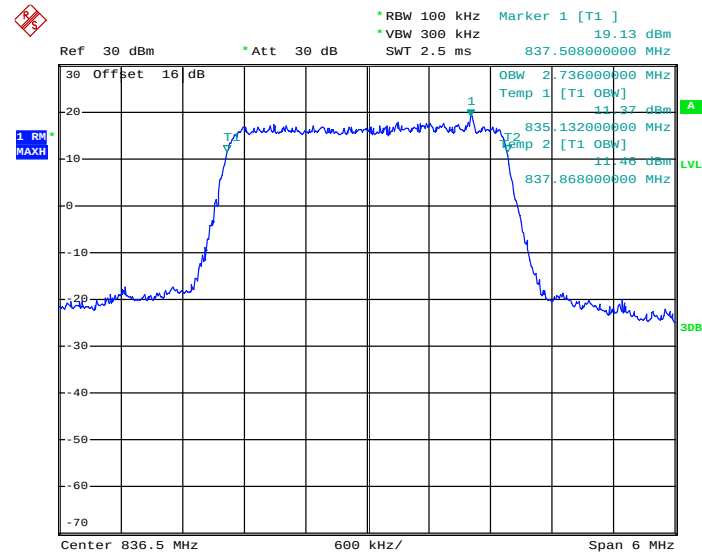
99% Occupied Bandwidth Plot on Channel 26915


Date: 10.MAR.2014 11:41:12

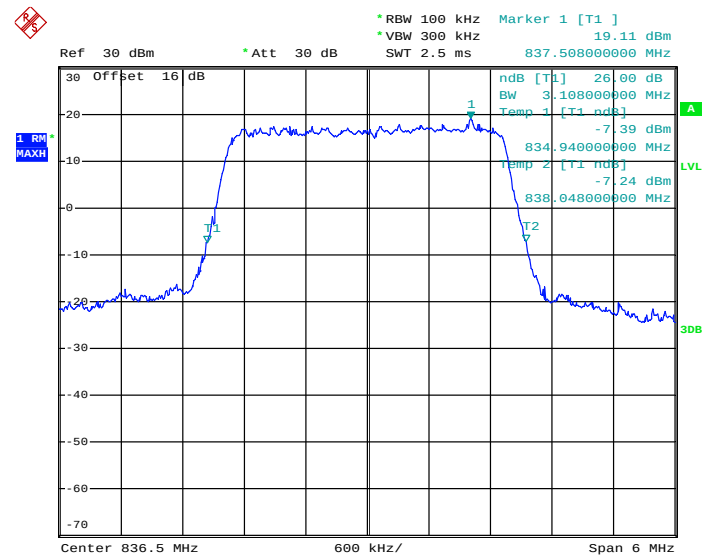
26dB Bandwidth Plot on Channel 26915


Date: 10.MAR.2014 11:16:53

Band :	LTE Band 26	BW / Mod. :	3MHz / QPSK
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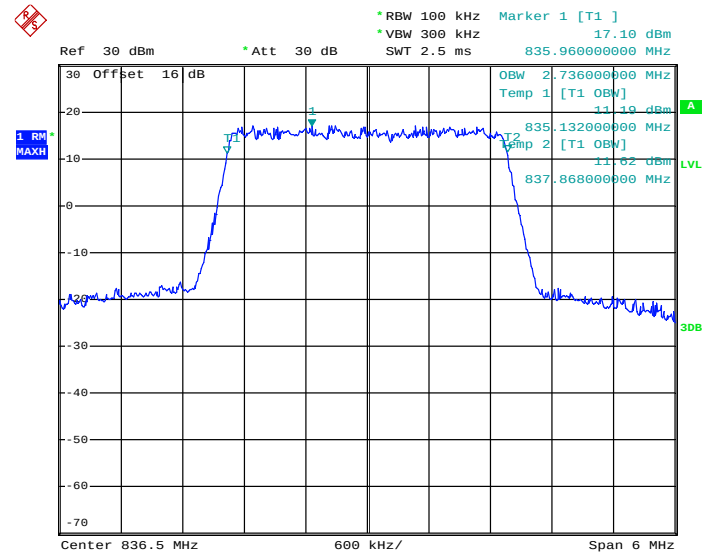
99% Occupied Bandwidth Plot on Channel 26915


Date: 10.MAR.2014 11:45:28

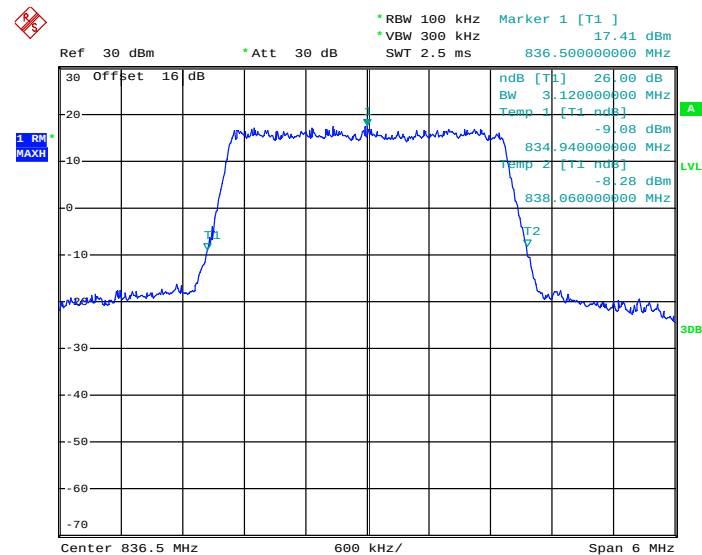
26dB Bandwidth Plot on Channel 26915


Date: 10.MAR.2014 11:14:28

Band :	LTE Band 26	BW / Mod. :	3MHz / 16QAM
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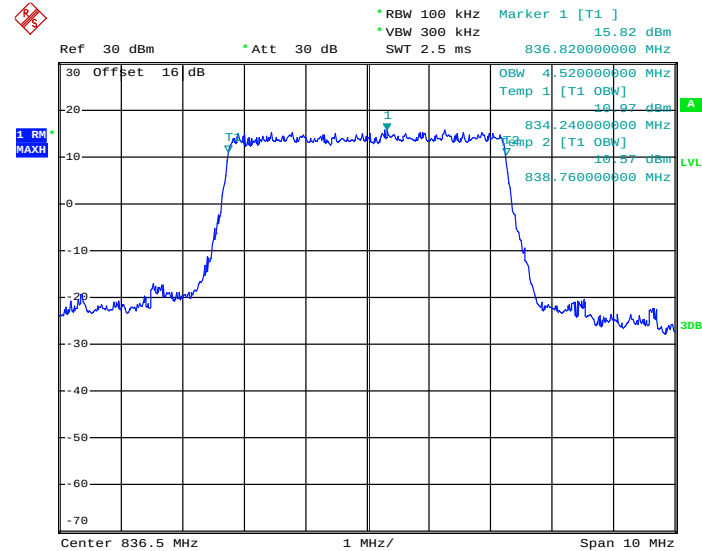
99% Occupied Bandwidth Plot on Channel 26915


Date: 10.MAR.2014 11:45:59

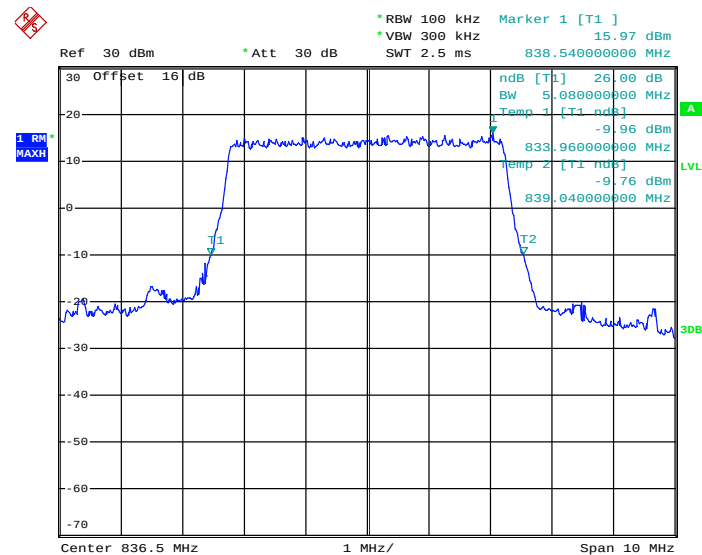
26dB Bandwidth Plot on Channel 26915


Date: 10.MAR.2014 11:15:11

Band :	LTE Band 26	BW / Mod. :	5MHz / QPSK
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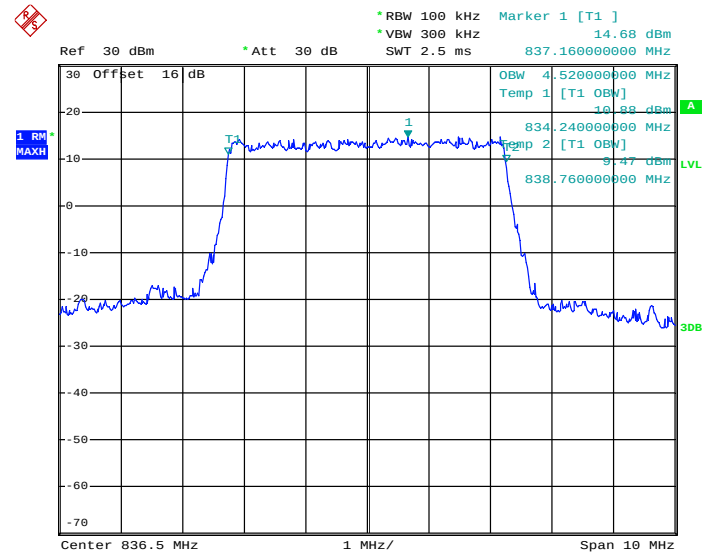
99% Occupied Bandwidth Plot on Channel 26915


Date: 10.MAR.2014 13:08:33

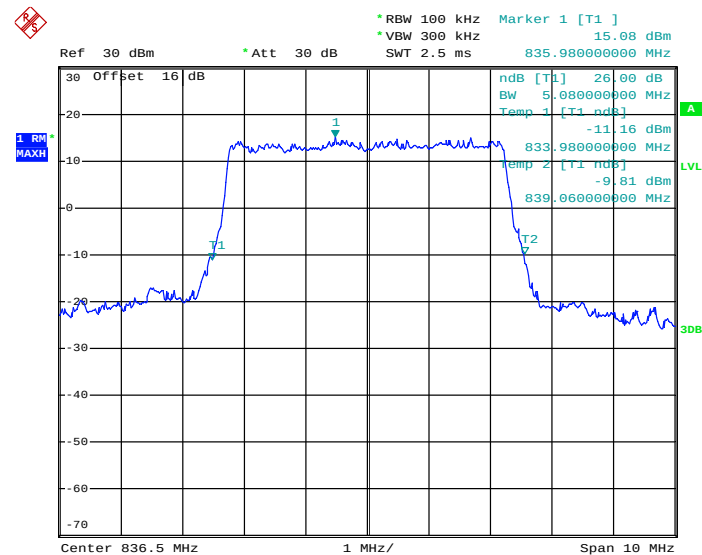
26dB Bandwidth Plot on Channel 26915


Date: 10.MAR.2014 11:19:28

Band :	LTE Band 26	BW / Mod. :	5MHz / 16QAM
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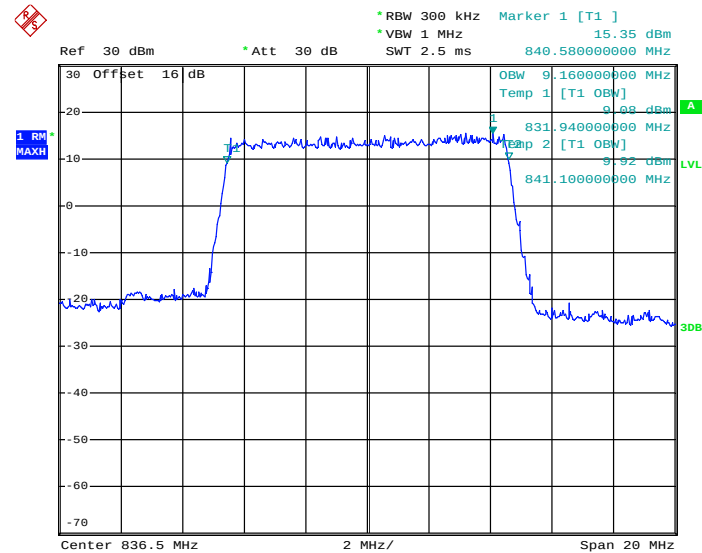
99% Occupied Bandwidth Plot on Channel 26915


Date: 10.MAR.2014 13:08:00

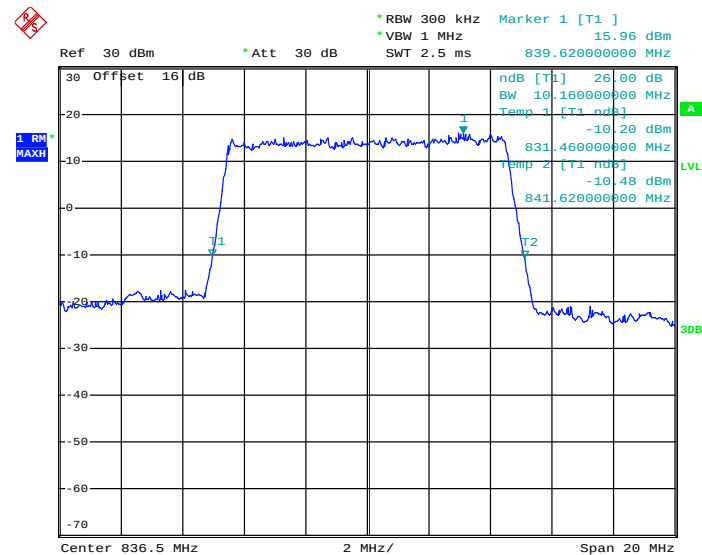
26dB Bandwidth Plot on Channel 26915


Date: 10.MAR.2014 11:20:43

Band :	LTE Band 26	BW / Mod. :	10MHz / QPSK
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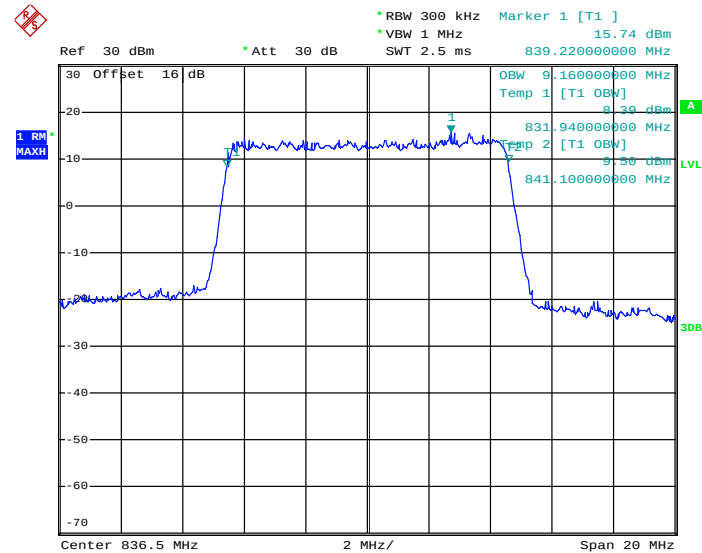
99% Occupied Bandwidth Plot on Channel 26915


Date: 10.MAR.2014 13:13:24

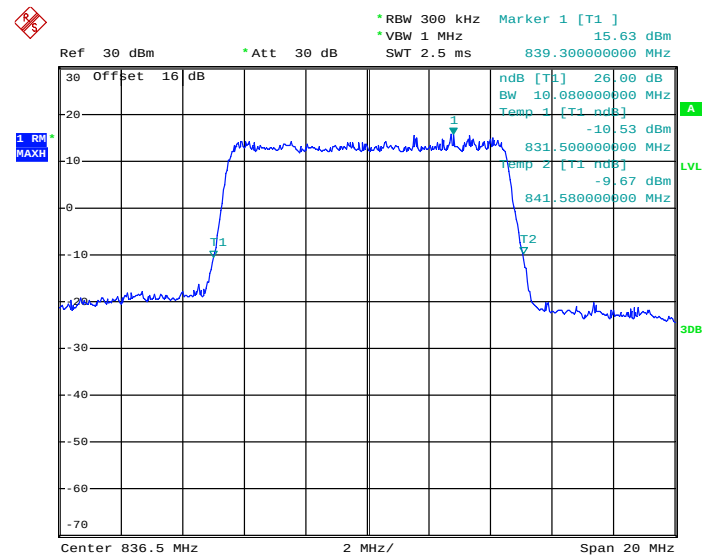
26dB Bandwidth Plot on Channel 26915


Date: 10.MAR.2014 11:22:45

Band :	LTE Band 26	BW / Mod. :	10MHz / 16QAM
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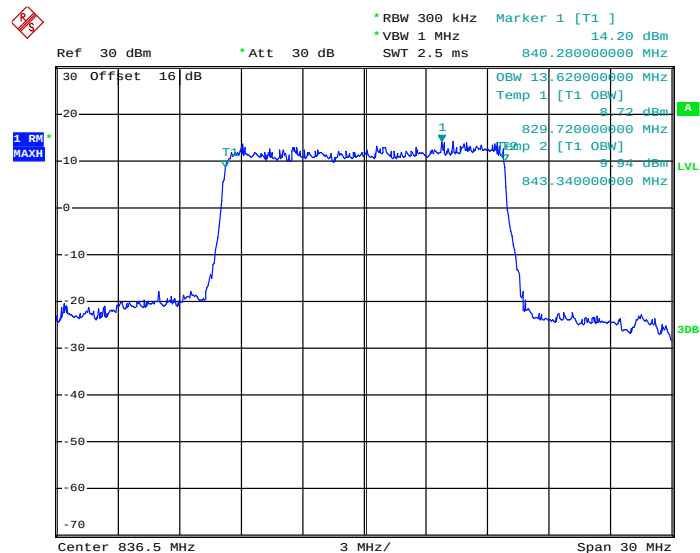
99% Occupied Bandwidth Plot on Channel 26915


Date: 10.MAR.2014 13:13:08

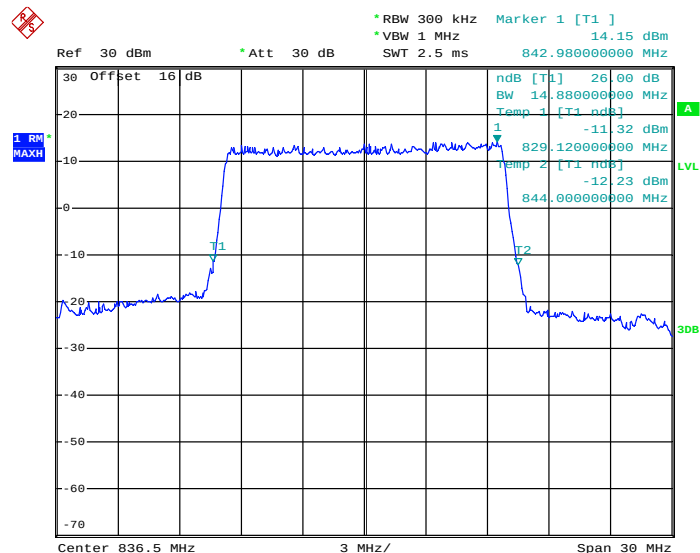
26dB Bandwidth Plot on Channel 26915


Date: 10.MAR.2014 11:21:59

Band :	LTE Band 26	BW / Mod. :	15MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 26915


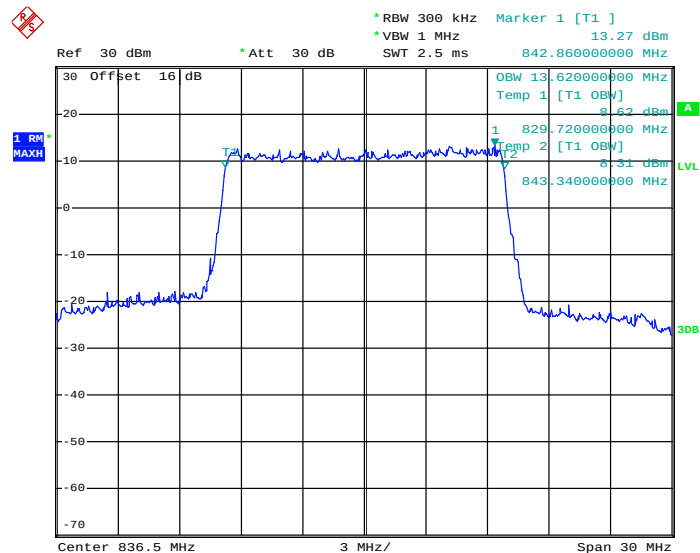
Date: 10.MAR.2014 13:17:51

26dB Bandwidth Plot on Channel 26915


Date: 10.MAR.2014 11:23:43

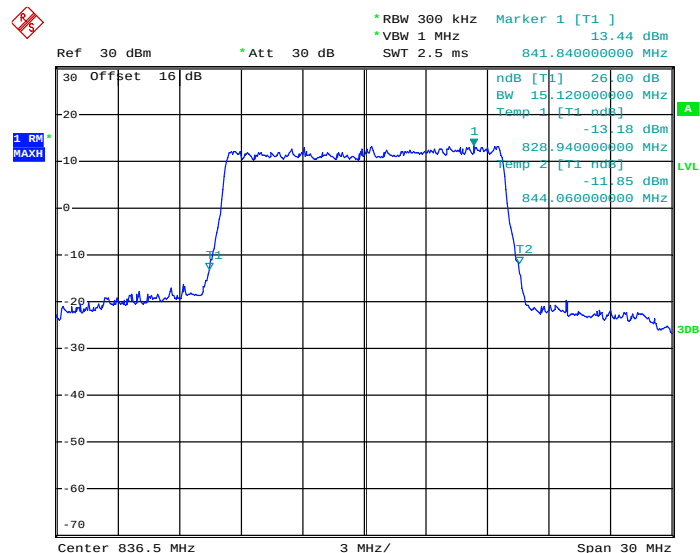
Band :	LTE Band 26	BW / Mod. :	15MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 26915



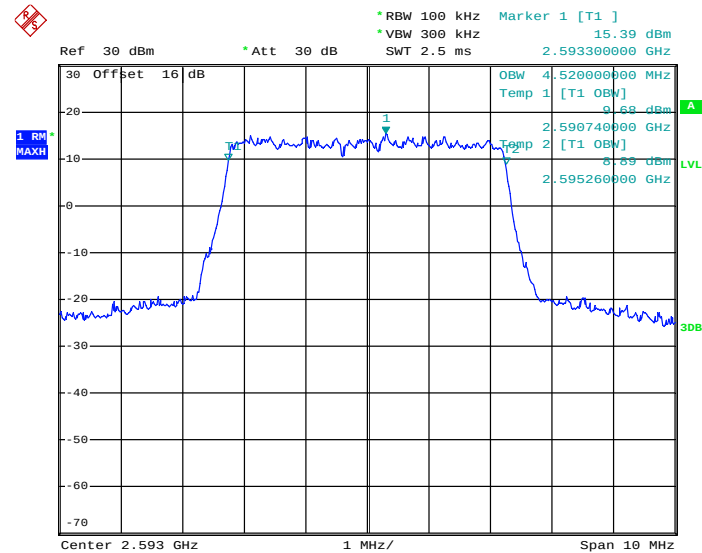
Date: 10.MAR.2014 13:17:36

26dB Bandwidth Plot on Channel 26915

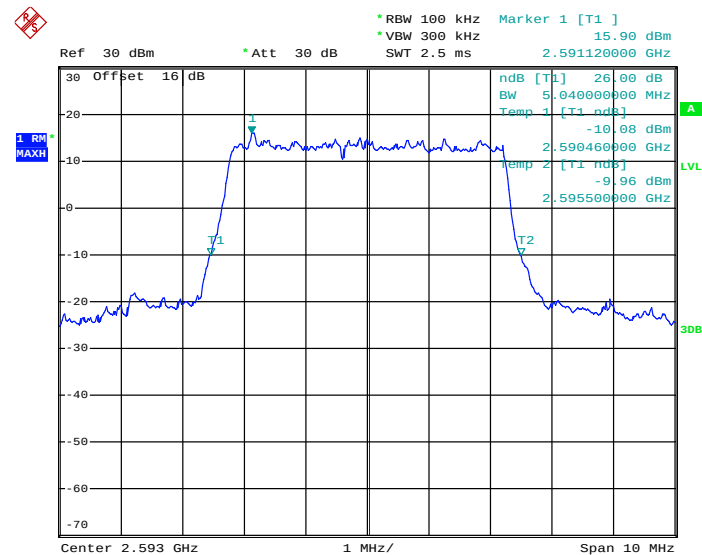


Date: 10.MAR.2014 11:25:30

Band :	LTE Band 41	BW / Mod. :	5MHz / QPSK
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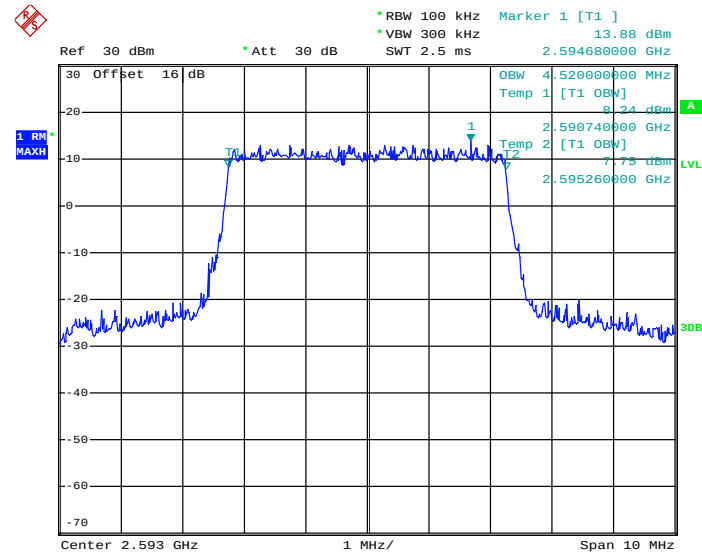
99% Occupied Bandwidth Plot on Channel 40620


Date: 13.MAR.2014 00:27:16

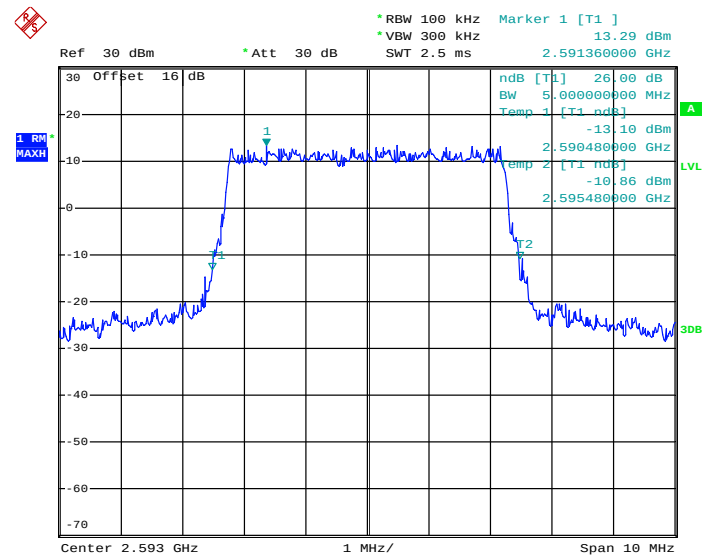
26dB Bandwidth Plot on Channel 40620


Date: 13.MAR.2014 00:11:44

Band :	LTE Band 41	BW / Mod. :	5MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 40620


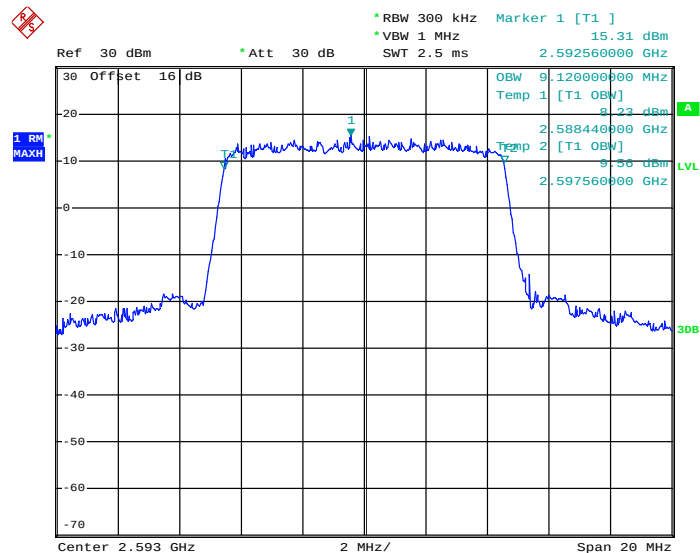
Date: 13.MAR.2014 00:27:32

26dB Bandwidth Plot on Channel 40620


Date: 13.MAR.2014 00:12:03

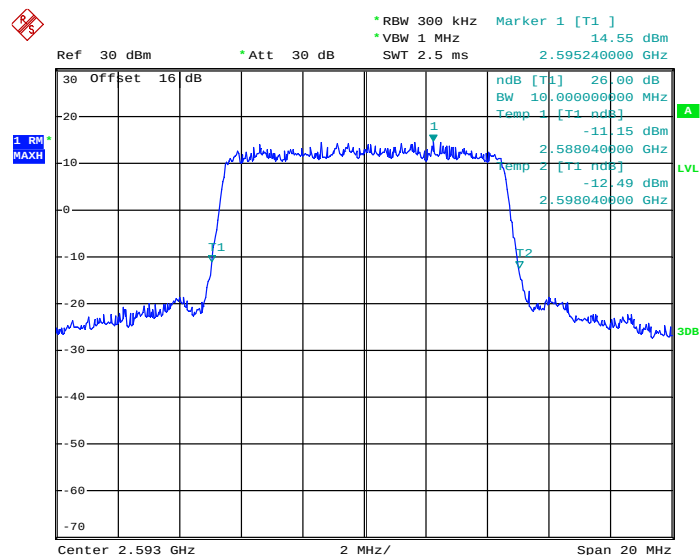
Band :	LTE Band 41	BW / Mod. :	10MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 40620



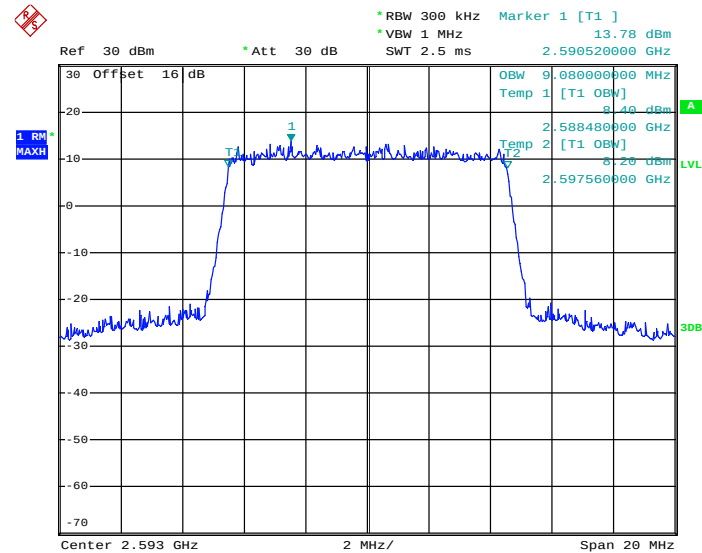
Date: 13.MAR.2014 00:29:47

26dB Bandwidth Plot on Channel 40620

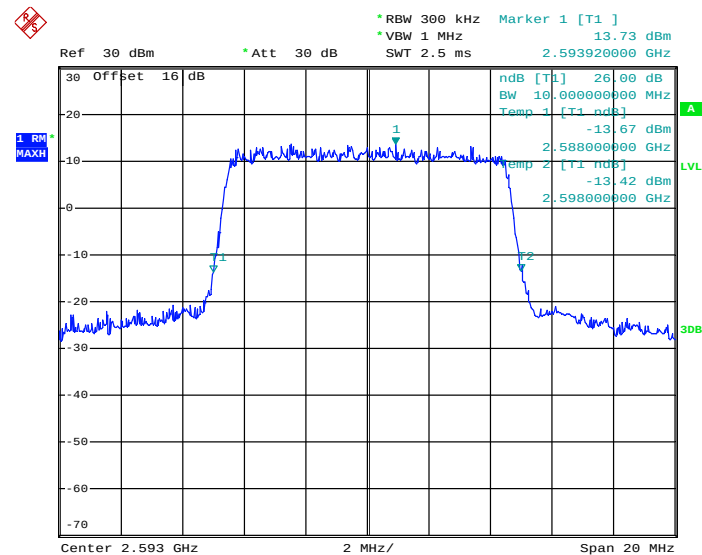


Date: 13.MAR.2014 00:13:05

Band :	LTE Band 41	BW / Mod. :	10MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 40620


Date: 13.MAR.2014 00:29:58

26dB Bandwidth Plot on Channel 40620


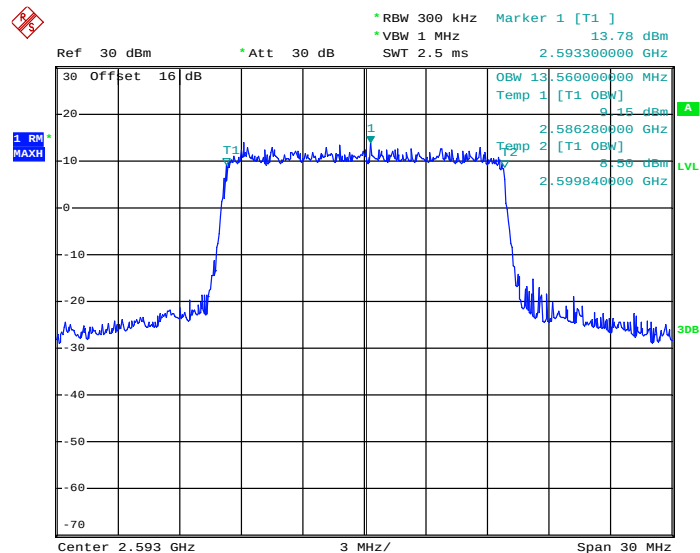
Date: 13.MAR.2014 00:12:48



Band : LTE Band 41

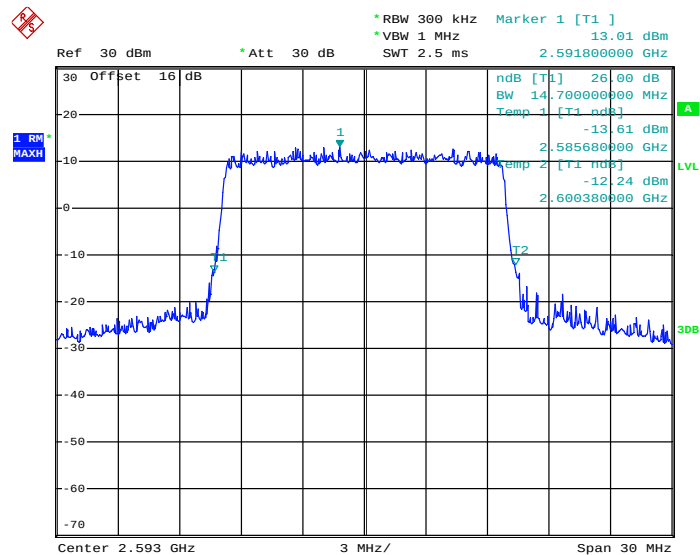
BW / Mod. : 15MHz / QPSK

99% Occupied Bandwidth Plot on Channel 40620



Date: 13.MAR.2014 00:56:34

26dB Bandwidth Plot on Channel 40620

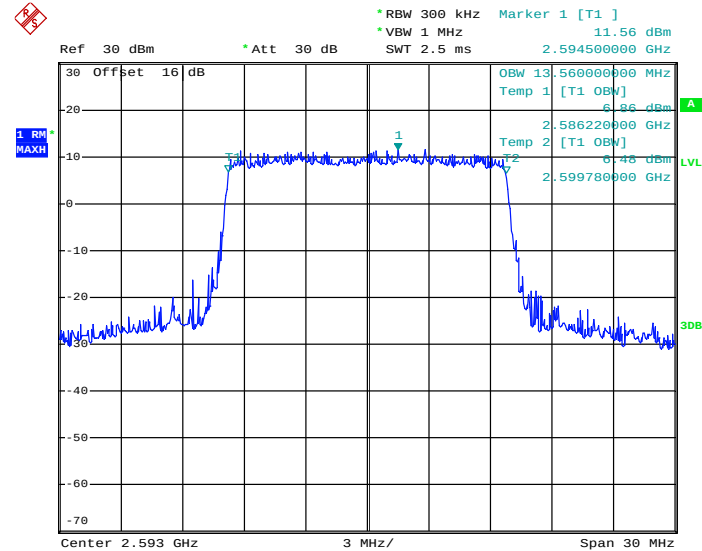


Date: 13.MAR.2014 00:13:52



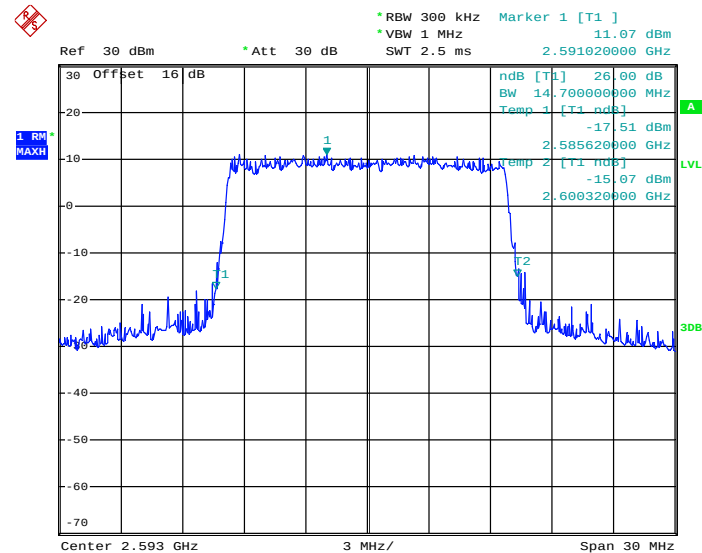
Band :	LTE Band 41	BW / Mod. :	15MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 40620



Date: 13.MAR.2014 00:57:33

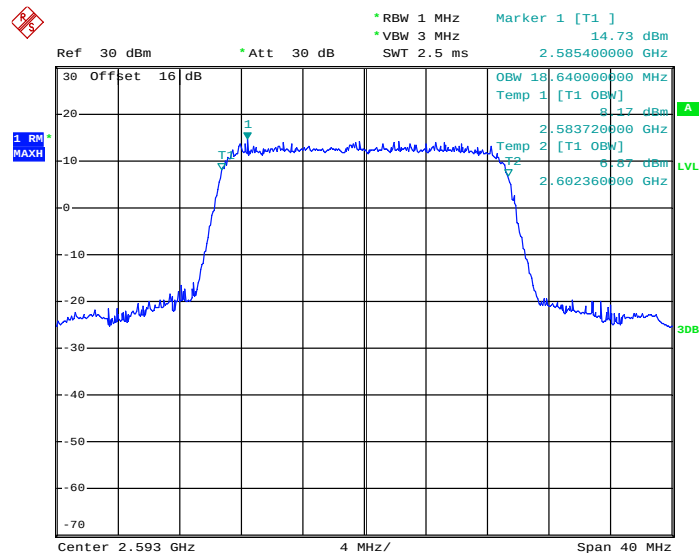
26dB Bandwidth Plot on Channel 40620



Date: 13.MAR.2014 00:14:03

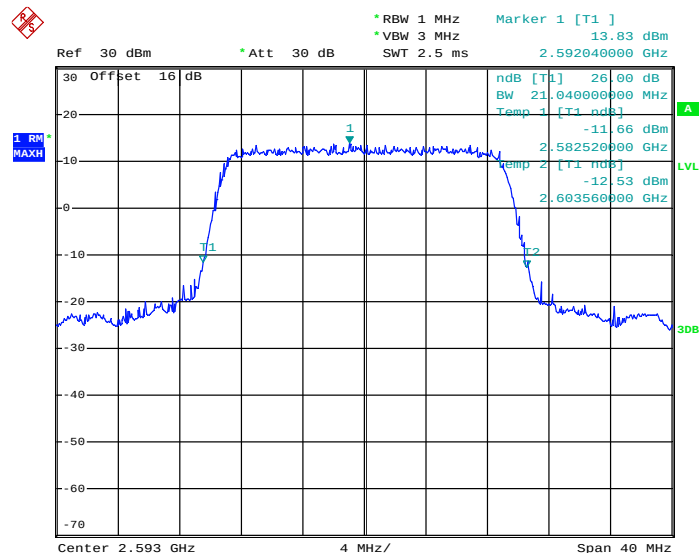
Band :	LTE Band 41	BW / Mod. :	20MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 40620



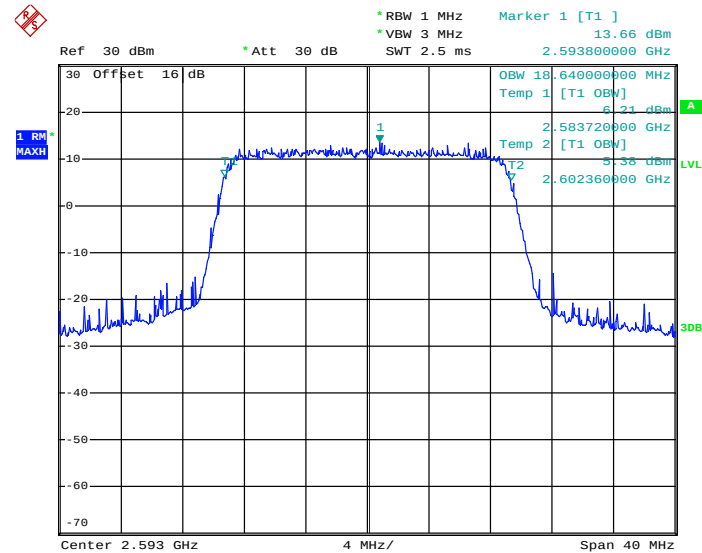
Date: 13.MAR.2014 01:00:24

26dB Bandwidth Plot on Channel 40620

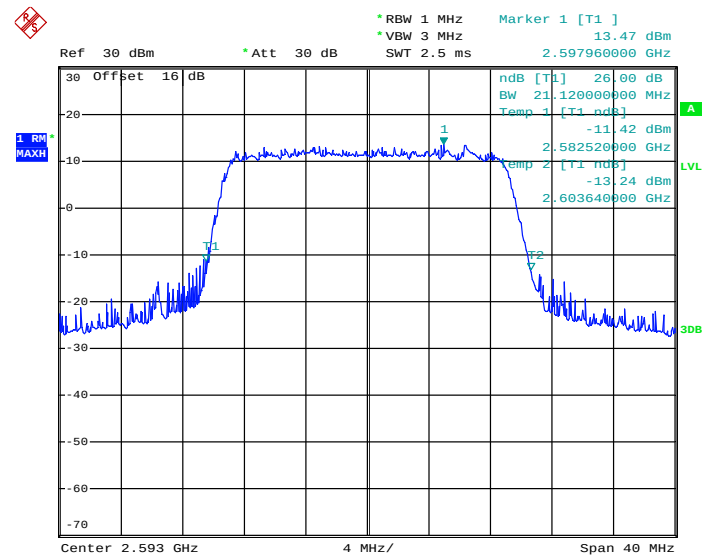


Date: 13.MAR.2014 00:14:53

Band :	LTE Band 41	BW / Mod. :	20MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 40620


Date: 13.MAR.2014 01:00:34

26dB Bandwidth Plot on Channel 40620


Date: 13.MAR.2014 00:14:39

3.5 Conducted Band Edge Measurement

3.5.1 Description of Conducted Band Edge Measurement

24.238 (a) For Band 25

For operations in the 1850-1910 and 1930-1990 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1MHz bandwidth. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

22.917(a) For Band 26

For operations in the 824 – 849 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100kHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

27.53(l) (4) For Band 41

The emissions be operated in the 2496-2690 MHz band, the attenuation factor of transmitter Power (P) shall be not less than $43 + 10 \log (P)$ dB at the channel edge and $55 + 10 \log (P)$ dB at 5.5 MHz from the channel edges.

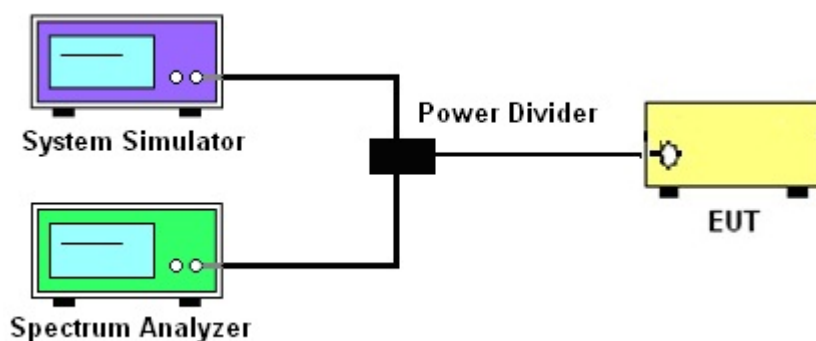
3.5.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

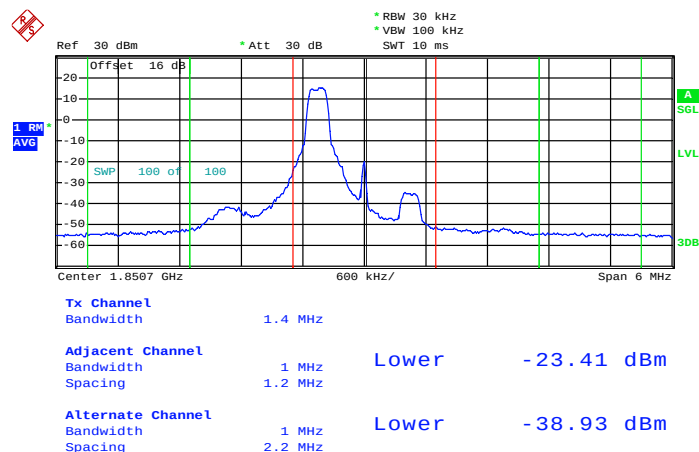
1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The band edges of low and high channels for the highest RF powers were measured. Setting $RBW \geq 1\%$ EBW, and measuring bandwidth = 1MHz.
3. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
4. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)]$ (dB)
 $= [30 + 10\log(P)]$ (dBm) - $[43 + 10\log(P)]$ (dB)
 $= -13$ dBm.
5. The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [55 + 10\log(P)]$ (dB)
 $= [30 + 10\log(P)]$ (dBm) - $[55 + 10\log(P)]$ (dB)
 $= -25$ dBm.

3.5.4 Test Setup

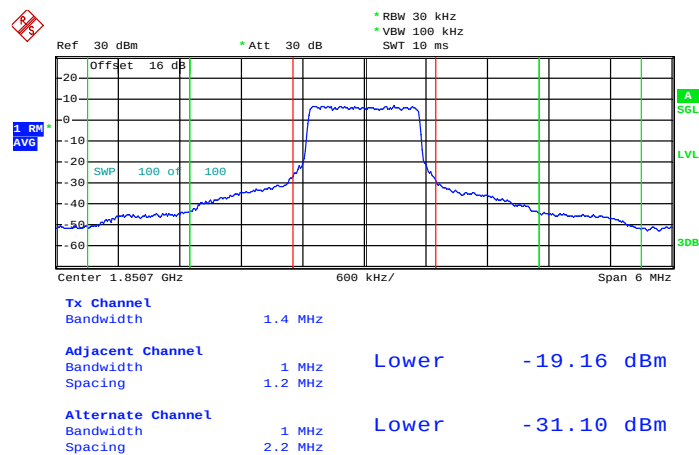


3.5.5 Test Result (Plots) of Conducted Band Edge

Band :	LTE Band 25	Band Width :	1.4MHz / QPSK
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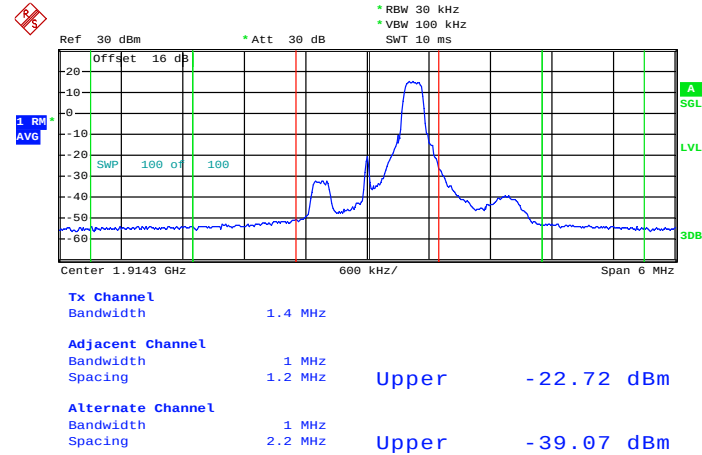
Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0


Date: 10.MAR.2014 20:35:26

Lower Band Edge Plot for QPSK-RB Size 6, RB Offset 0


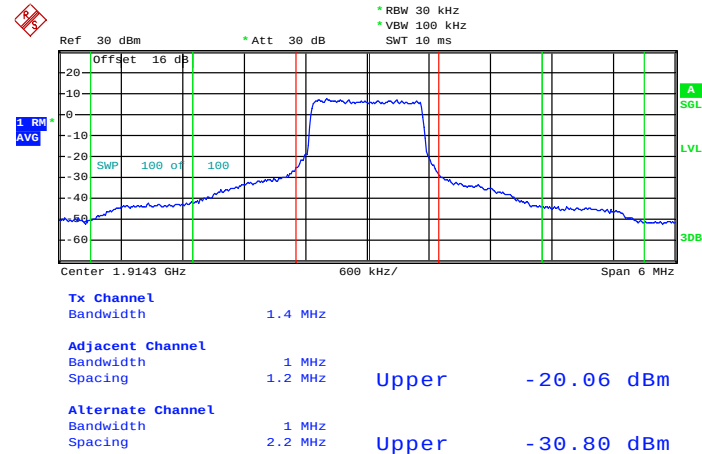
Date: 10.MAR.2014 20:35:02

Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 5



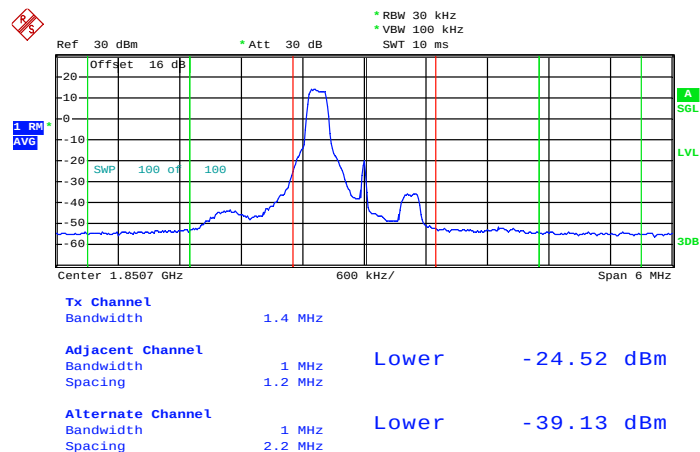
Date: 10.MAR.2014 20:37:05

Higher Band Edge Plot for QPSK-RB Size 6, RB Offset 0

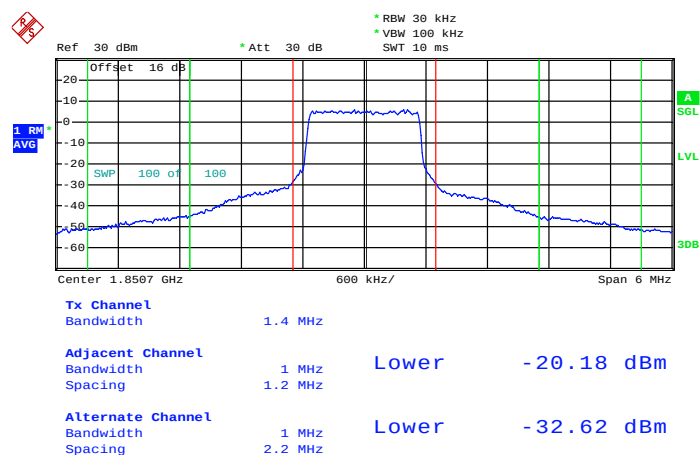


Date: 10.MAR.2014 20:37:22

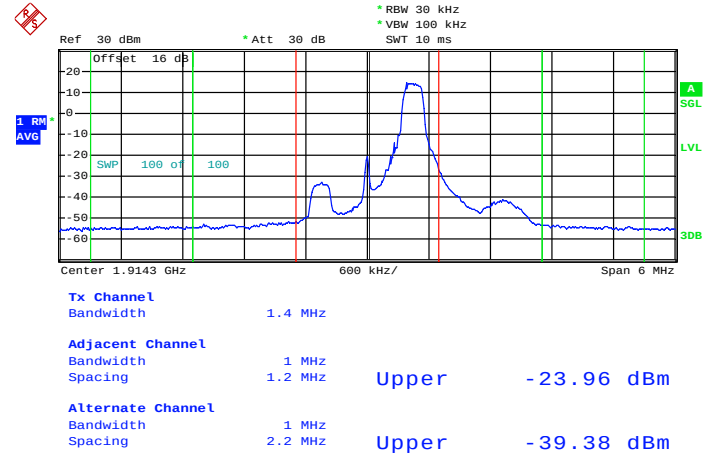
Band :	LTE Band 25	Band Width :	1.4MHz / 16QAM
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Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0


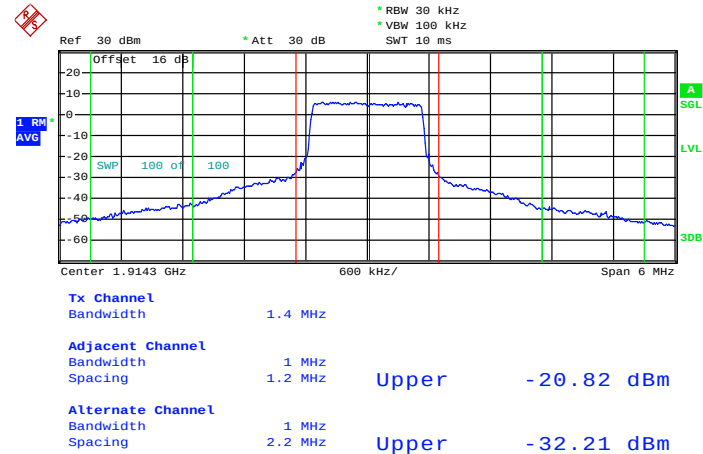
Date: 10.MAR.2014 20:35:42

Lower Band Edge Plot for 16QAM -RB Size 6, RB Offset 0


Date: 10.MAR.2014 20:34:47

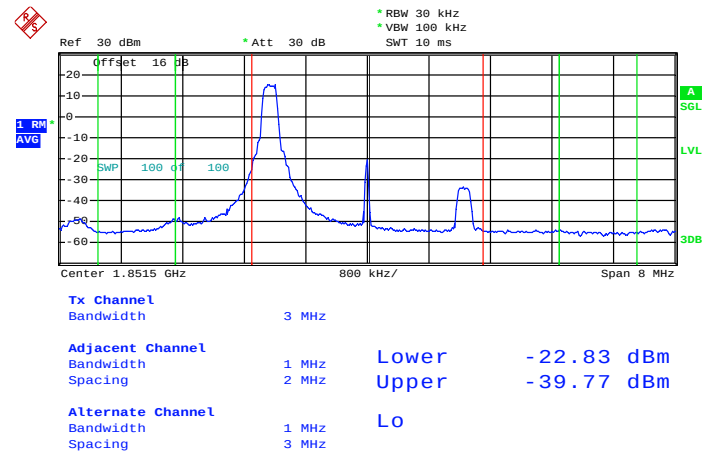
Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 5


Date: 10.MAR.2014 20:36:41

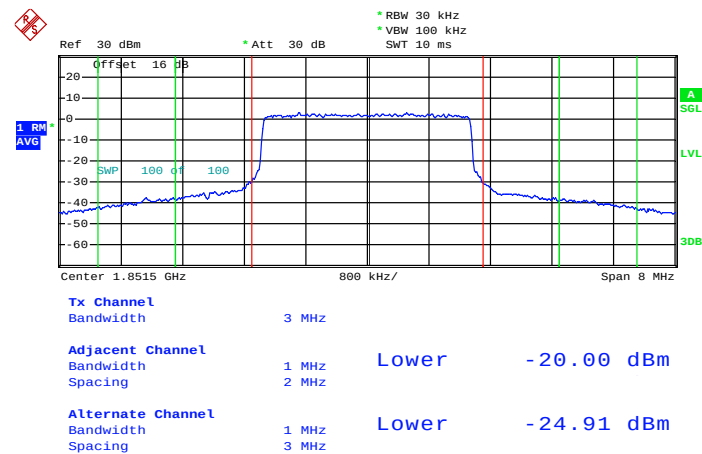
Higher Band Edge Plot for 16QAM -RB Size 6, RB Offset 0


Date: 10.MAR.2014 20:37:37

Band :	LTE Band 25	Band Width :	3MHz / QPSK
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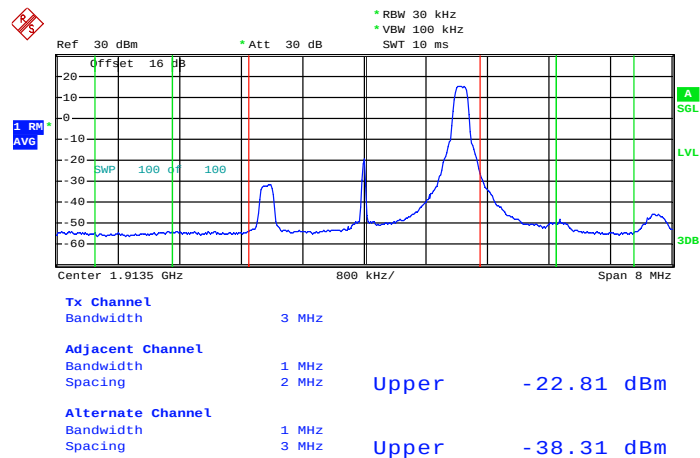
Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0


Date: 10.MAR.2014 20:40:58

Lower Band Edge Plot for QPSK-RB Size 15, RB Offset 0


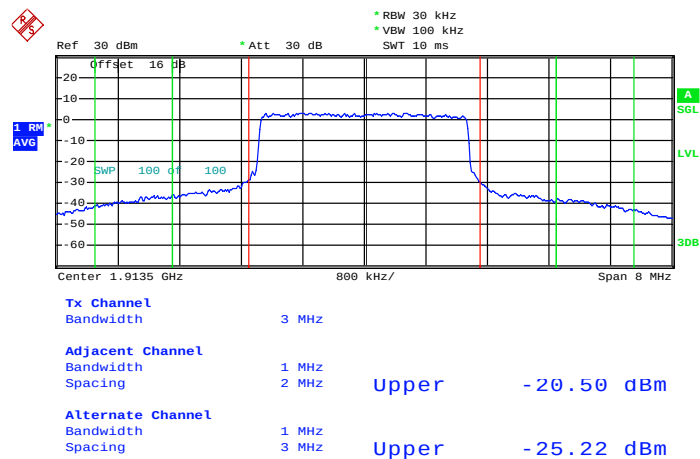
Date: 10.MAR.2014 20:41:20

Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 14



Date: 10.MAR.2014 20:39:48

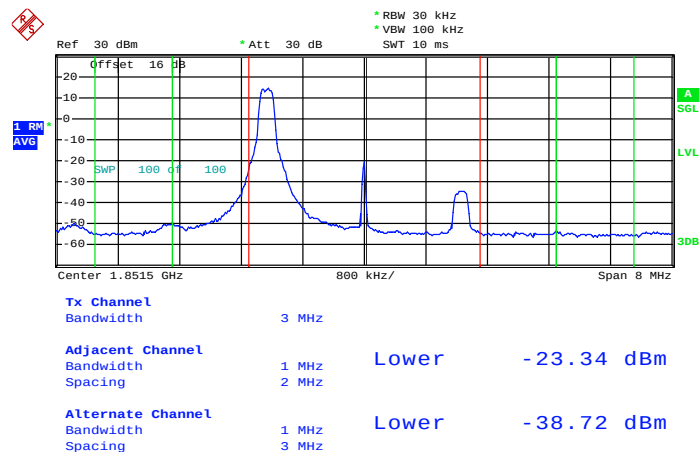
Higher Band Edge Plot for QPSK-RB Size 15, RB Offset 0



Date: 10.MAR.2014 20:39:28

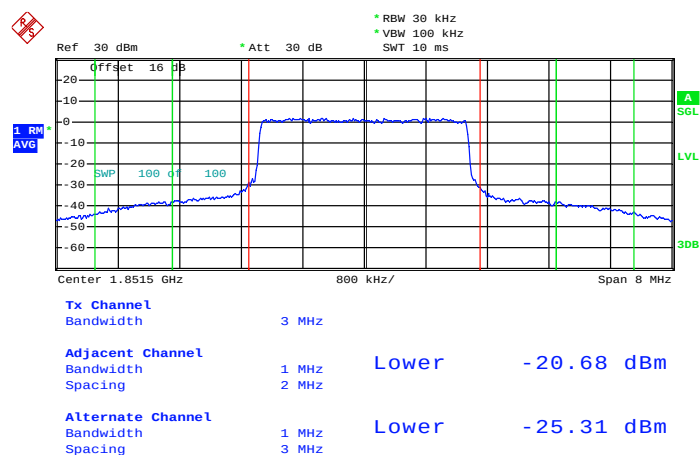
Band :	LTE Band 25	Band Width :	3MHz / 16QAM
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Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



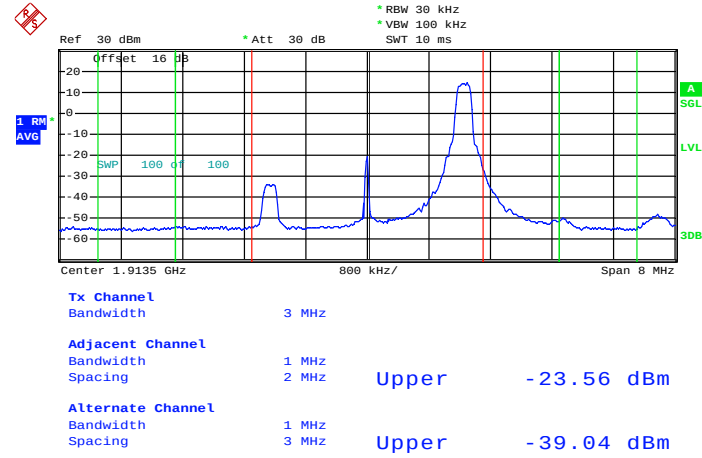
Date: 10.MAR.2014 20:40:42

Lower Band Edge Plot for 16QAM -RB Size 15, RB Offset 0



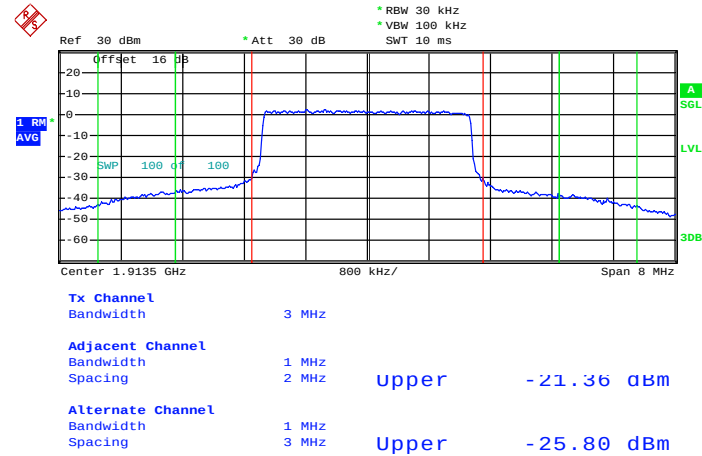
Date: 10.MAR.2014 20:41:33

Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 14



Date: 10.MAR.2014 20:40:02

Higher Band Edge Plot for 16QAM -RB Size 15, RB Offset 0

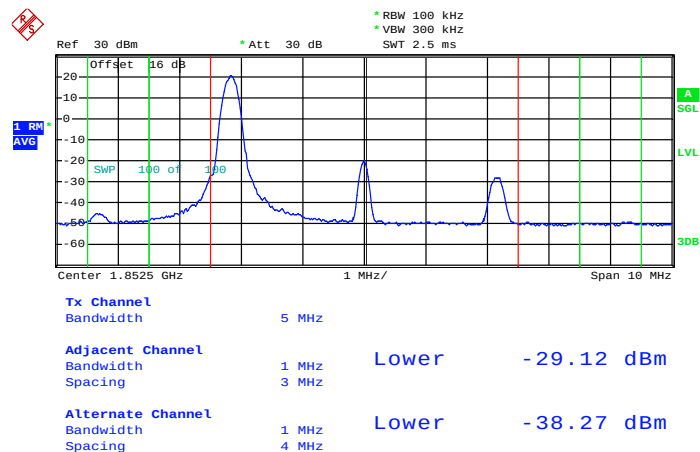


Date: 10.MAR.2014 20:39:11



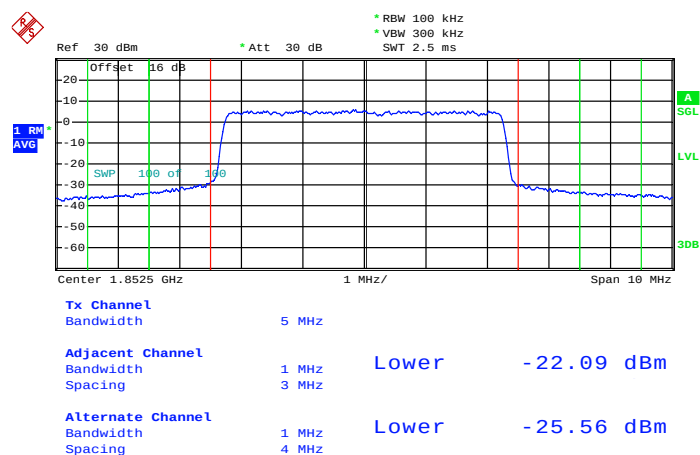
Band :	LTE Band 25	Band Width :	5MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0

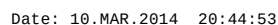


Date: 10.MAR.2014 20:43:32

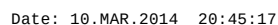
Lower Band Edge Plot for QPSK-RB Size 25, RB Offset 0



Date: 10.MAR.2014 20:43:16



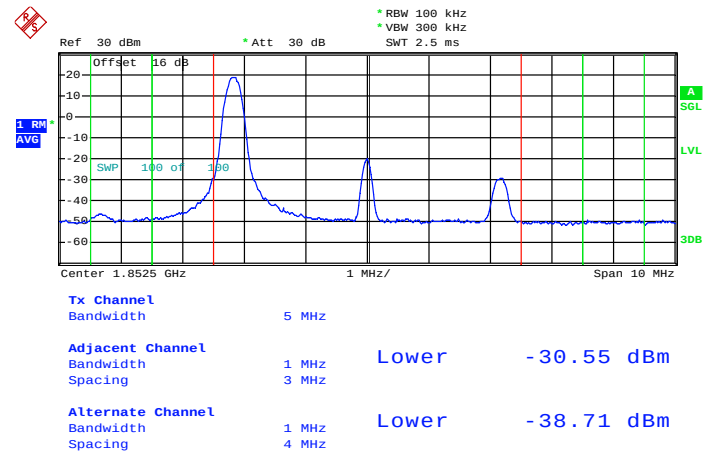
Higher Band Edge Plot for QPSK-RB Size 25, RB Offset 0





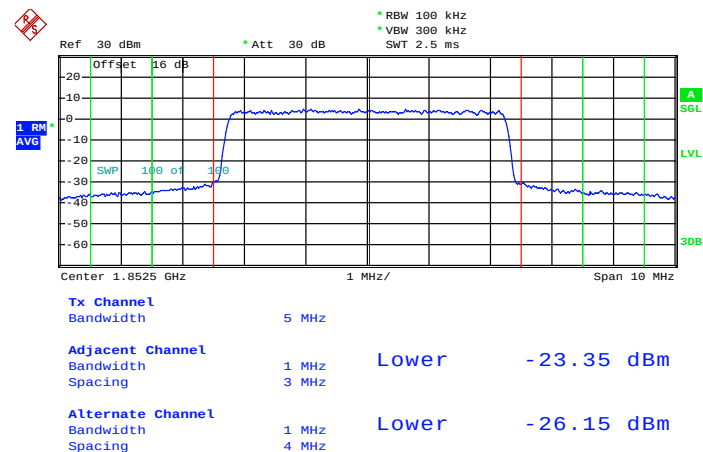
Band :	LTE Band 25	Band Width :	5MHz / 16QAM
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Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0

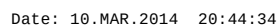


Date: 10.MAR.2014 20:43:49

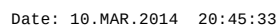
Lower Band Edge Plot for 16QAM -RB Size 25, RB Offset 0



Date: 10.MAR.2014 20:43:01



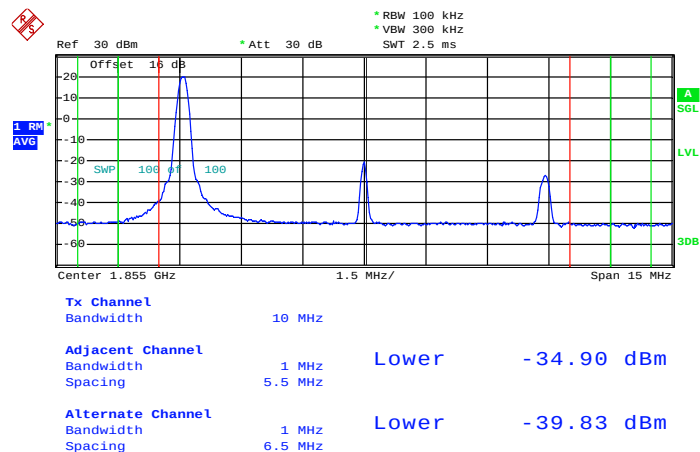
Higher Band Edge Plot for 16QAM -RB Size 25, RB Offset 0





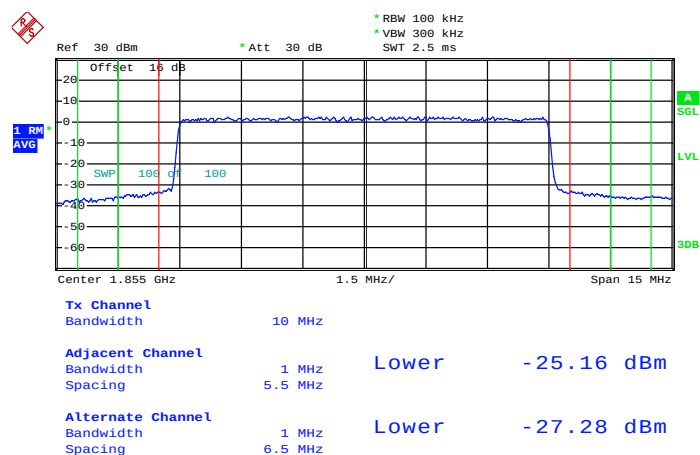
Band :	LTE Band 25	Band Width :	10MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



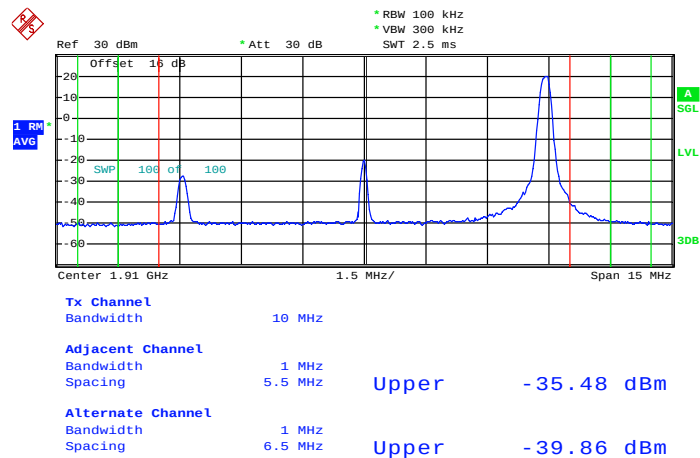
Date: 10.MAR.2014 20:48:39

Lower Band Edge Plot for QPSK-RB Size 50, RB Offset 0



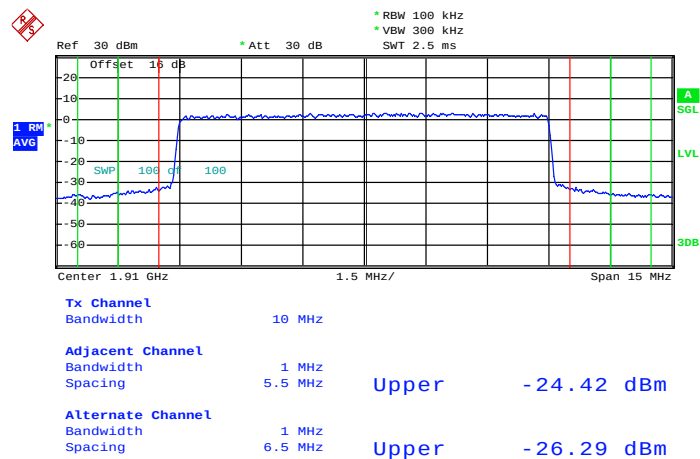
Date: 10.MAR.2014 20:49:07

Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 49



Date: 10.MAR.2014 20:47:35

Higher Band Edge Plot for QPSK-RB Size 50, RB Offset 0

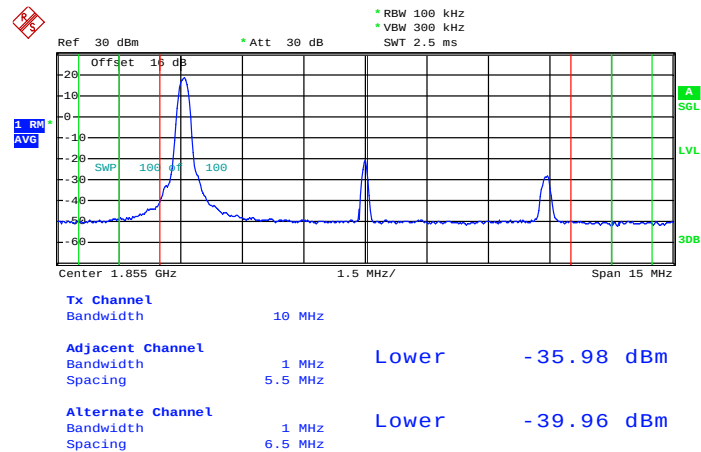


Date: 10.MAR.2014 20:47:14



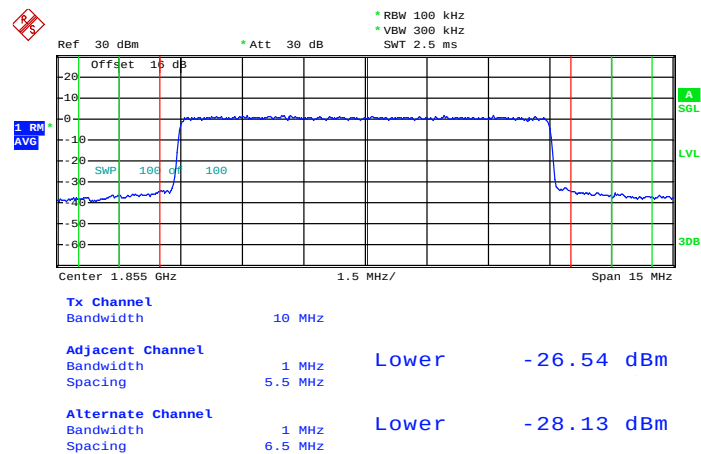
Band :	LTE Band 25	Band Width :	10MHz / 16QAM
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Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0

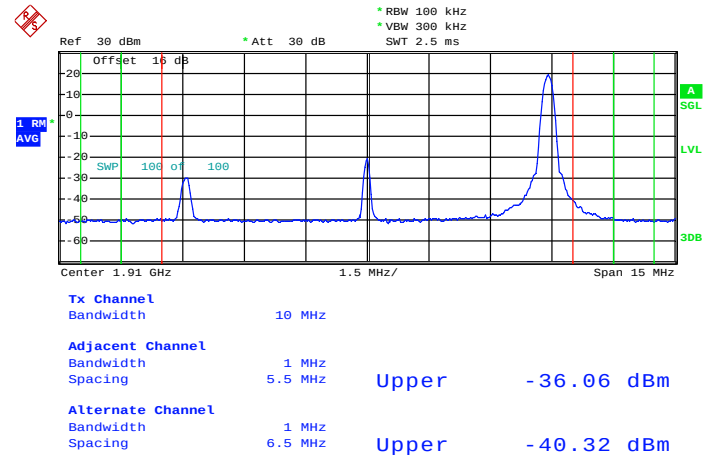


Date: 10.MAR.2014 20:48:25

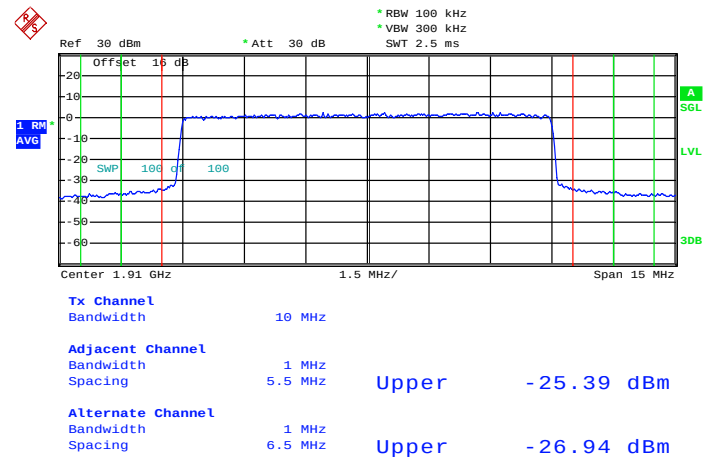
Lower Band Edge Plot for 16QAM -RB Size 50, RB Offset 0



Date: 10.MAR.2014 20:49:22

Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 49


Date: 10.MAR.2014 20:47:49

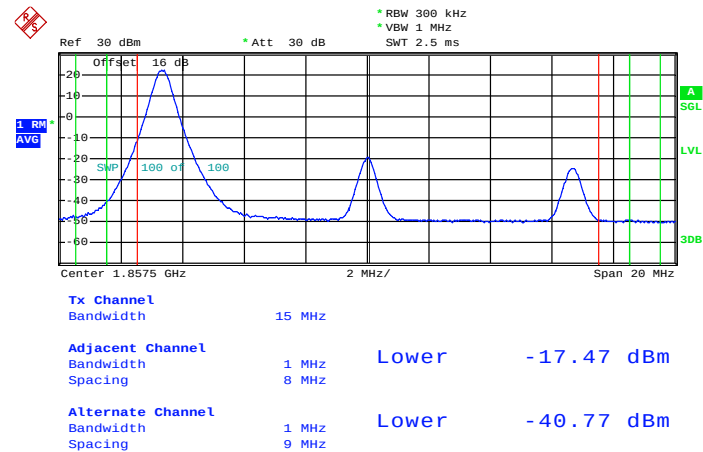
Higher Band Edge Plot for 16QAM -RB Size 50, RB Offset 0


Date: 10.MAR.2014 20:47:00



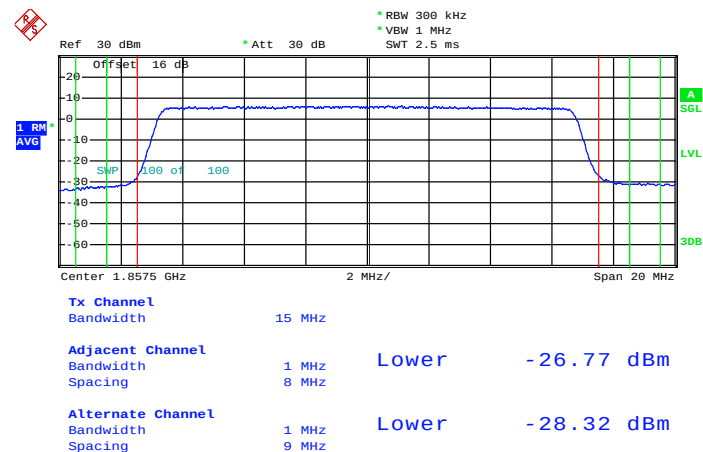
Band :	LTE Band 25	Band Width :	15MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0

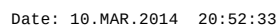


Date: 10.MAR.2014 20:51:21

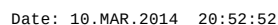
Lower Band Edge Plot for QPSK-RB Size 75, RB Offset 0



Date: 10.MAR.2014 20:51:05



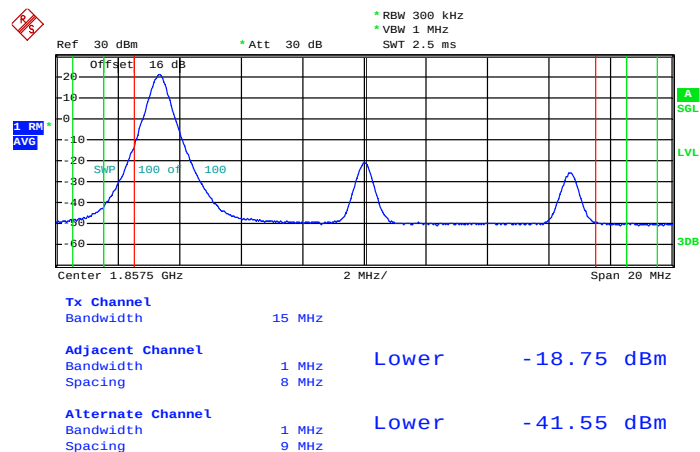
Higher Band Edge Plot for QPSK-RB Size 75, RB Offset 0





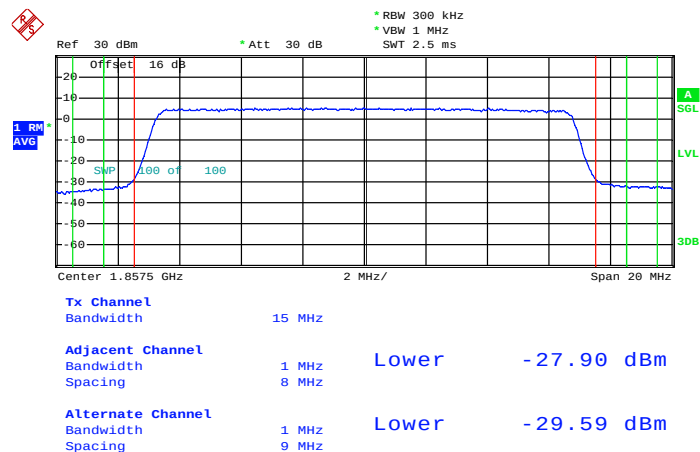
Band :	LTE Band 25	Band Width :	15MHz / 16QAM
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Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0

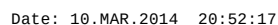


Date: 10.MAR.2014 20:51:36

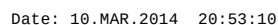
Lower Band Edge Plot for 16QAM-RB Size 75, RB Offset 0



Date: 10.MAR.2014 20:50:37



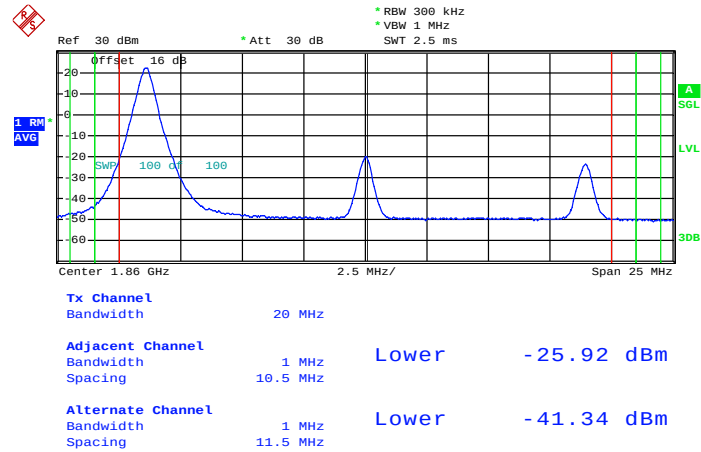
Higher Band Edge Plot for 16QAM-RB Size 75, RB Offset 0





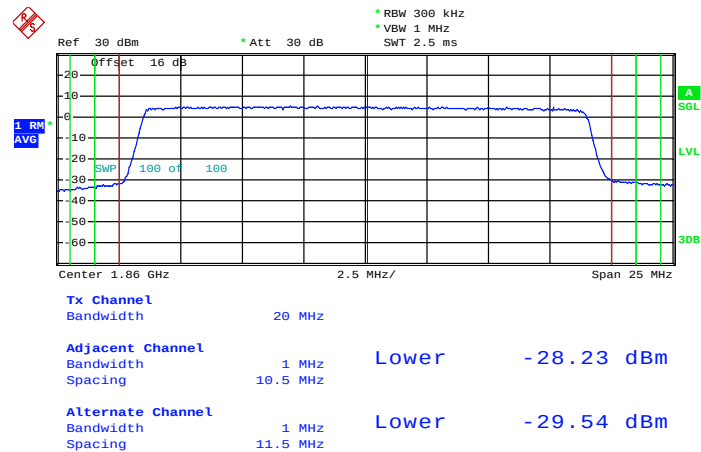
Band :	LTE Band 25	Band Width :	20MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0

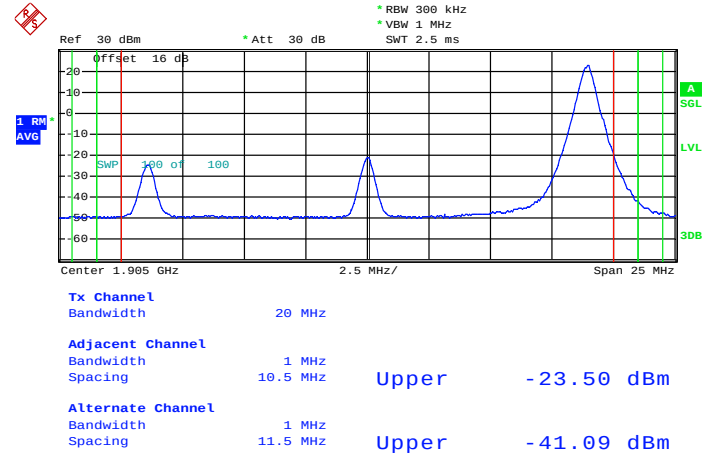


Date: 10.MAR.2014 20:56:35

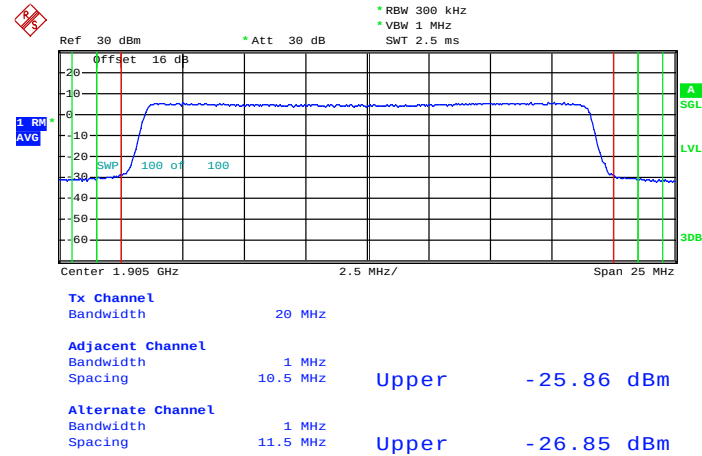
Lower Band Edge Plot for QPSK-RB Size 100, RB Offset 0



Date: 10.MAR.2014 20:57:06

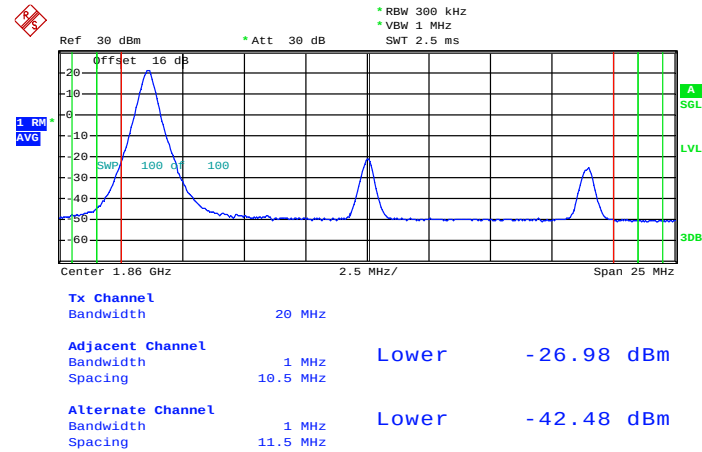
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 99


Date: 10.MAR.2014 20:55:10

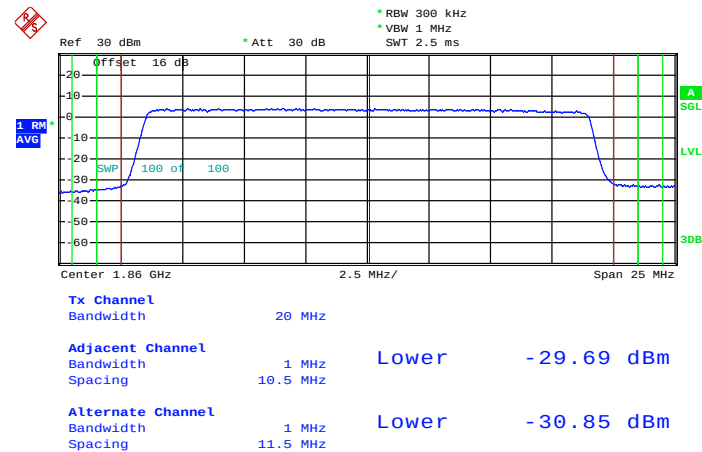
Higher Band Edge Plot for QPSK-RB Size 100, RB Offset 0


Date: 10.MAR.2014 20:54:50

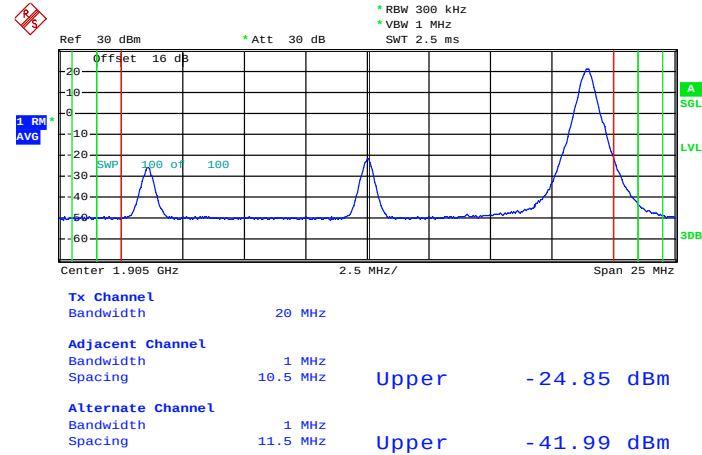
Band :	LTE Band 25	Band Width :	20MHz / 16QAM
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Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0


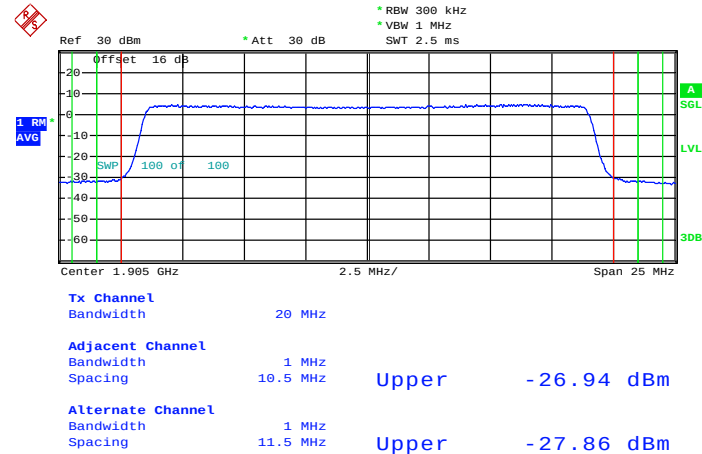
Date: 10.MAR.2014 20:56:19

Lower Band Edge Plot for 16QAM-RB Size 100, RB Offset 0


Date: 10.MAR.2014 20:57:20

Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 99


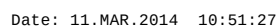
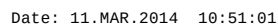
Date: 10.MAR.2014 20:55:24

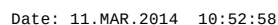
Higher Band Edge Plot for 16QAM-RB Size 100, RB Offset 0


Date: 10.MAR.2014 20:54:33

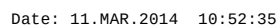


Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0





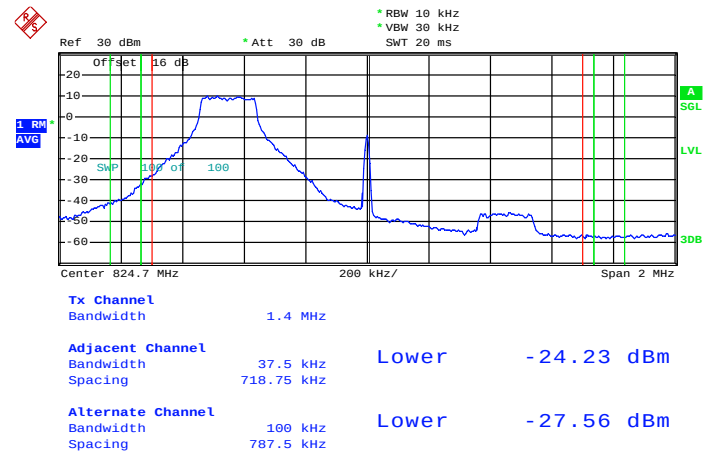
Higher Band Edge Plot for QPSK-RB Size 6, RB Offset 0





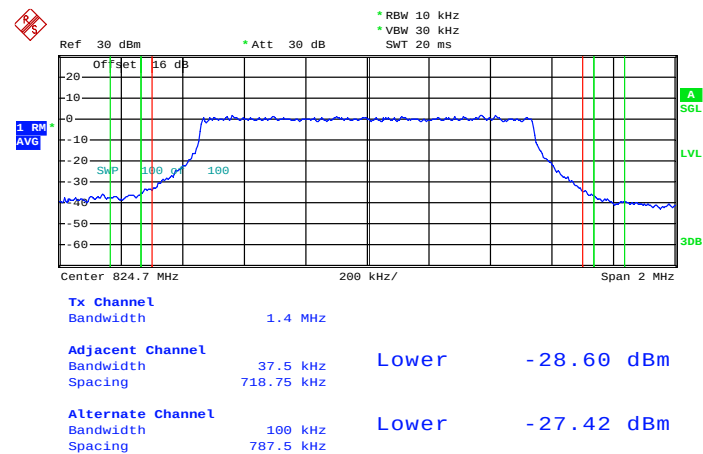
Band :	LTE Band 26	Band Width :	1.4MHz / 16QAM
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Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0

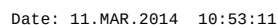


Date: 11.MAR.2014 10:50:46

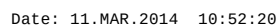
Lower Band Edge Plot for 16QAM-RB Size 6, RB Offset 0



Date: 11.MAR.2014 10:51:41



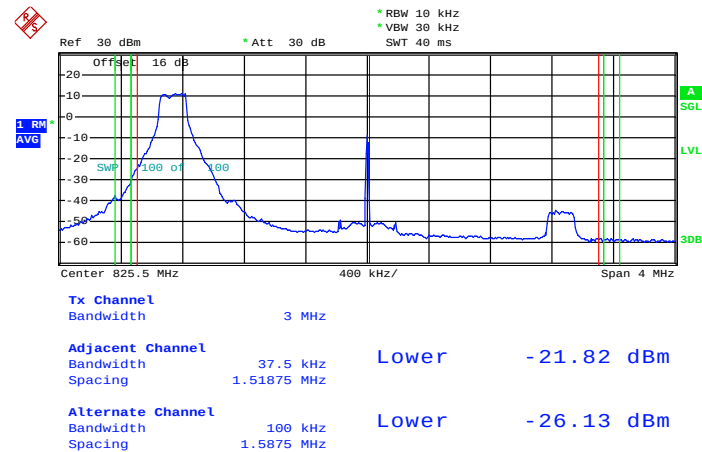
Higher Band Edge Plot for 16QAM-RB Size 6, RB Offset 0





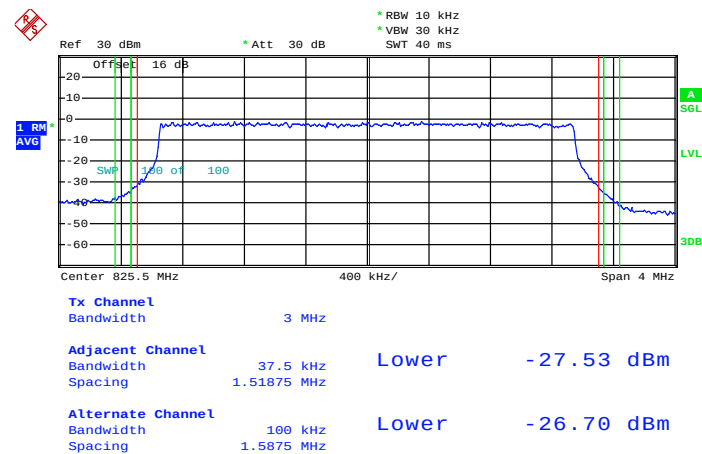
Band :	LTE Band 26	Band Width :	3MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



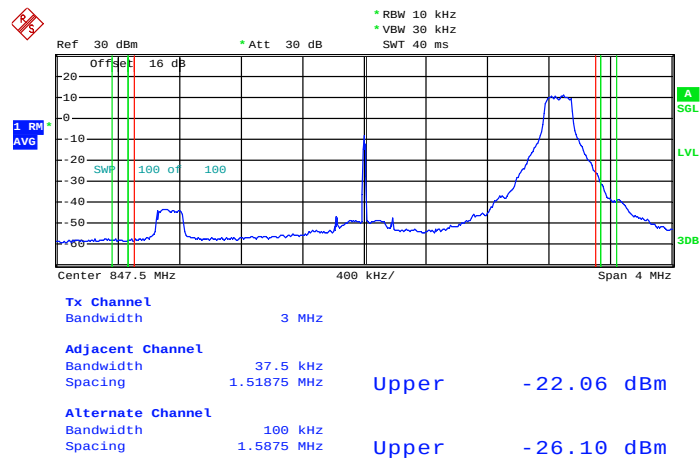
Date: 11.MAR.2014 10:56:42

Lower Band Edge Plot for QPSK-RB Size 15, RB Offset 0



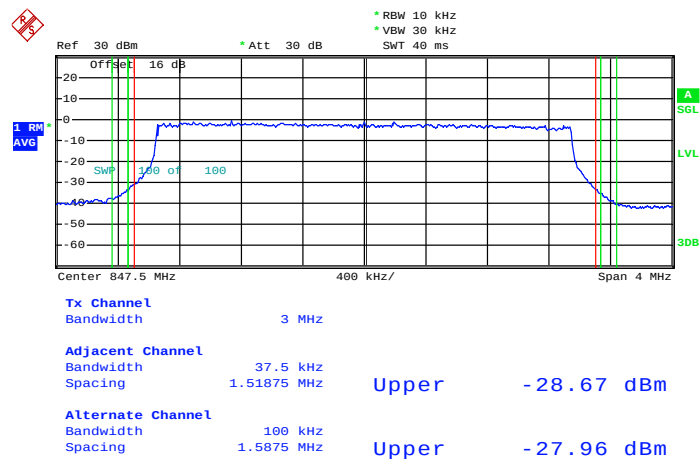
Date: 11.MAR.2014 10:57:11

Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 14



Date: 11.MAR.2014 10:58:50

Higher Band Edge Plot for QPSK-RB Size 15, RB Offset 0

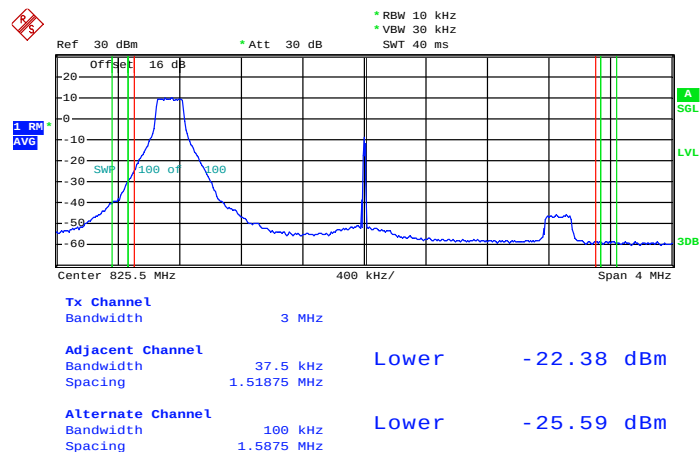


Date: 11.MAR.2014 10:58:27



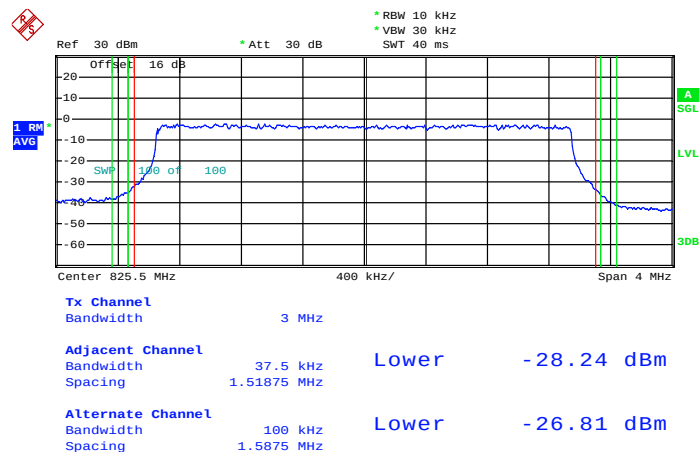
Band :	LTE Band 26	Band Width :	3MHz / 16QAM
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Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



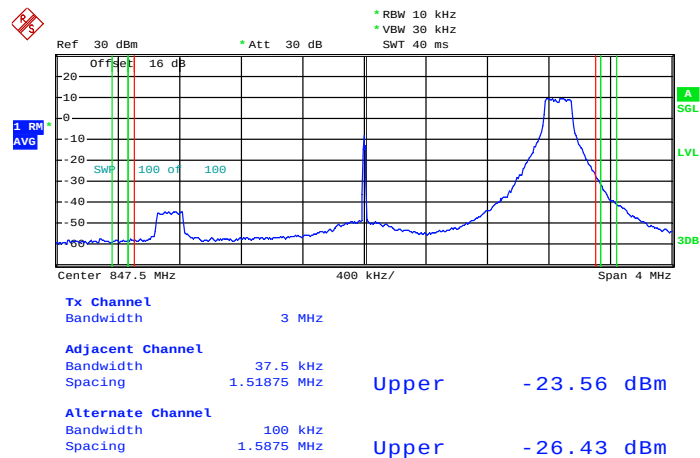
Date: 11.MAR.2014 10:56:26

Lower Band Edge Plot for 16QAM-RB Size 15, RB Offset 0



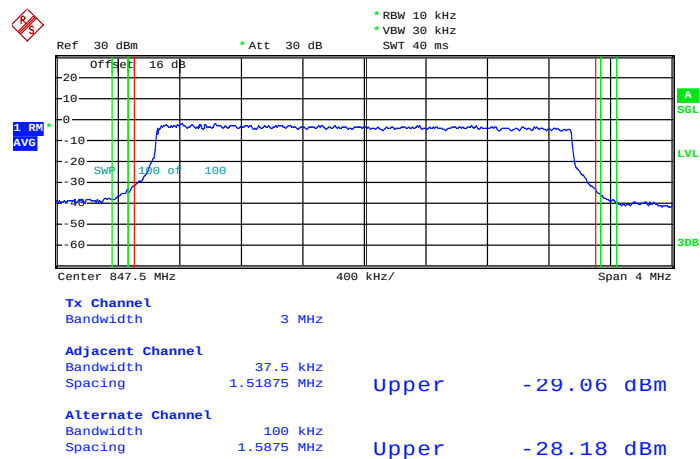
Date: 11.MAR.2014 10:57:27

Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 14



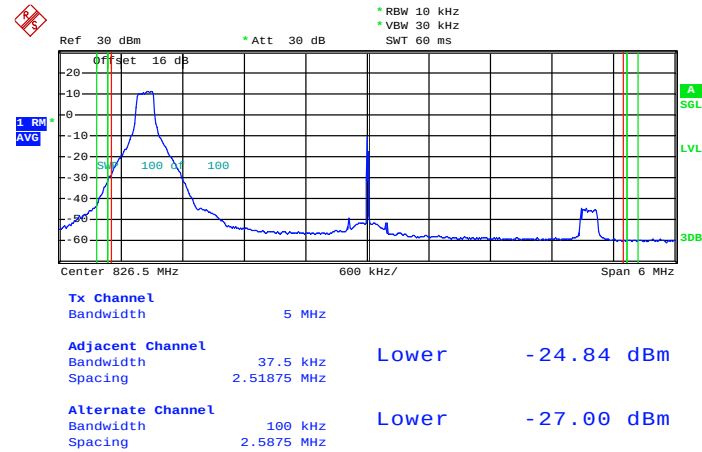
Date: 11.MAR.2014 10:59:05

Higher Band Edge Plot for 16QAM-RB Size 15, RB Offset 0

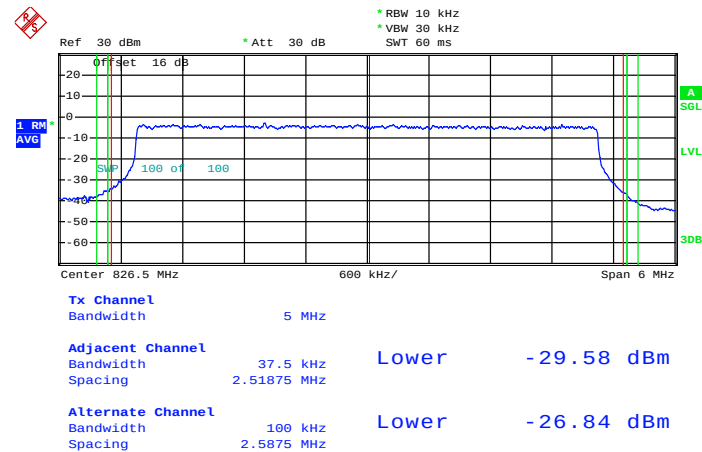


Date: 11.MAR.2014 10:58:02

Band :	LTE Band 26	Band Width :	5MHz / QPSK
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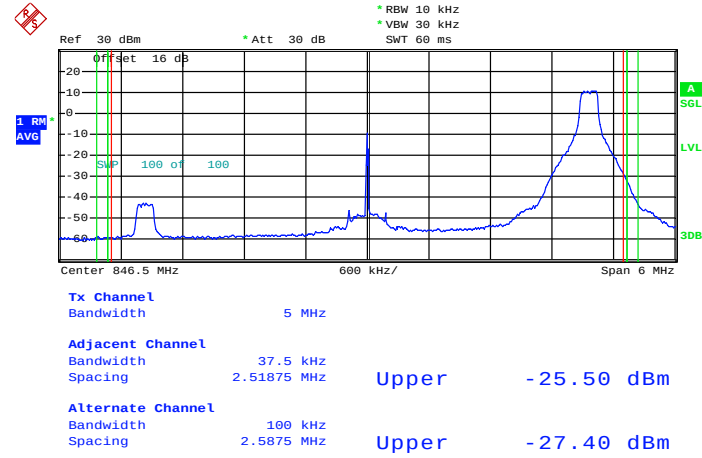
Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0


Date: 11.MAR.2014 11:01:06

Lower Band Edge Plot for QPSK-RB Size 25, RB Offset 0


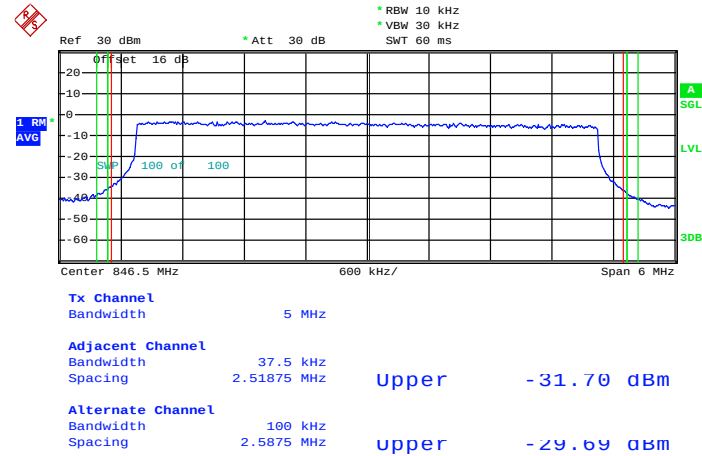
Date: 11.MAR.2014 11:01:34

Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 24



Date: 11.MAR.2014 11:03:25

Higher Band Edge Plot for QPSK-RB Size 25, RB Offset 0

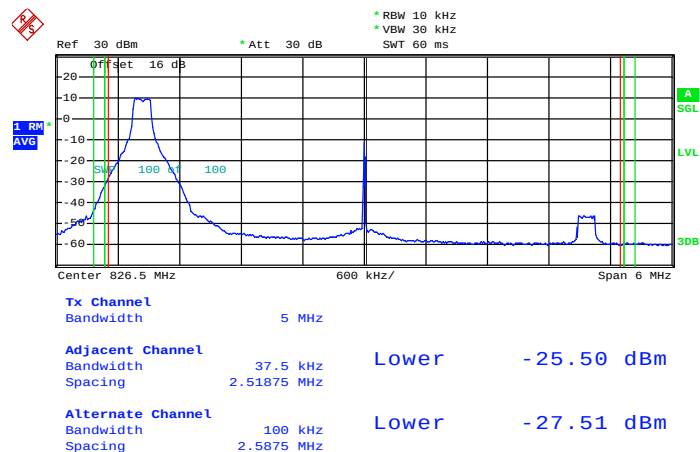


Date: 11.MAR.2014 11:02:51



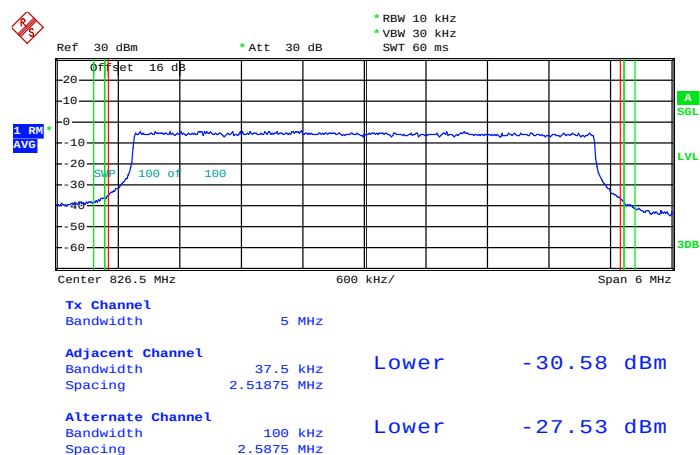
Band :	LTE Band 26	Band Width :	5MHz / 16QAM
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Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



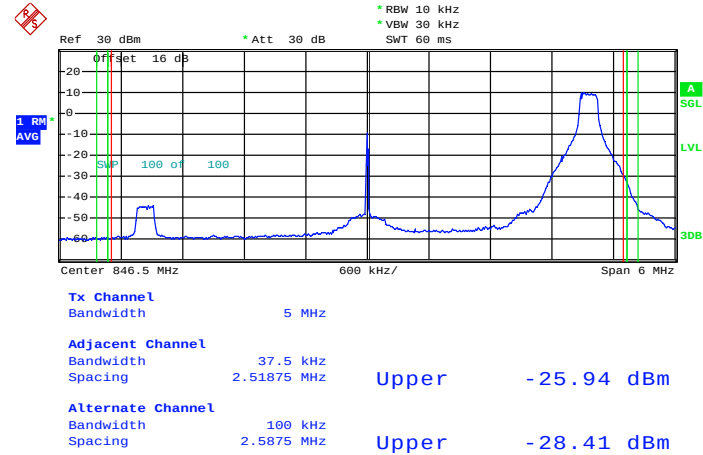
Date: 11.MAR.2014 11:00:46

Lower Band Edge Plot for 16QAM-RB Size 25, RB Offset 0



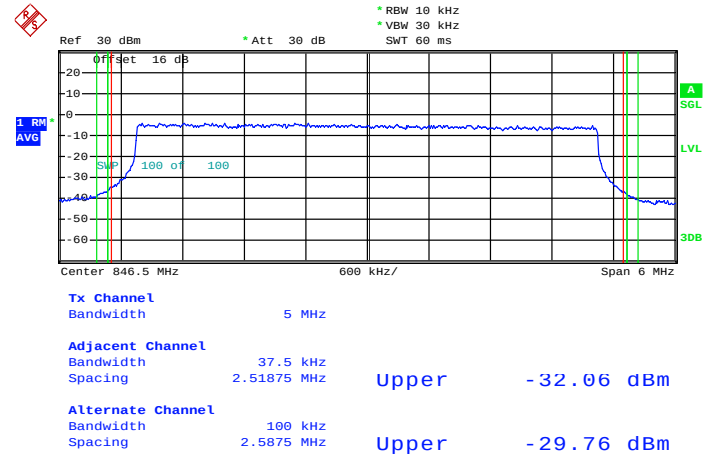
Date: 11.MAR.2014 11:01:54

Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 24



Date: 11.MAR.2014 11:03:46

Higher Band Edge Plot for 16QAM-RB Size 25, RB Offset 0

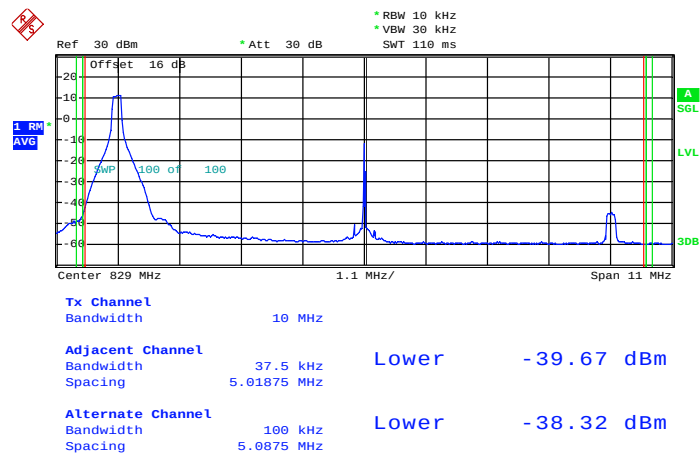


Date: 11.MAR.2014 11:02:32



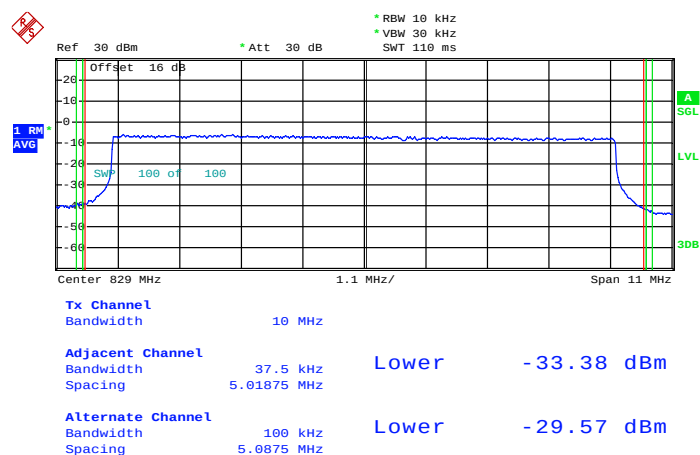
Band :	LTE Band 26	Band Width :	10MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0

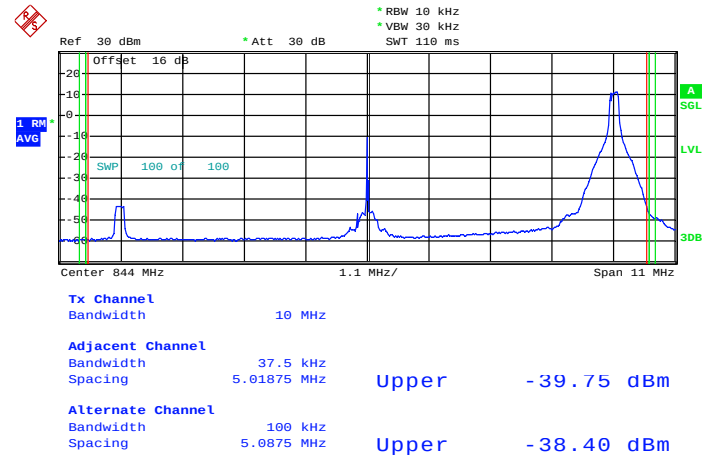


Date: 11.MAR.2014 11:05:53

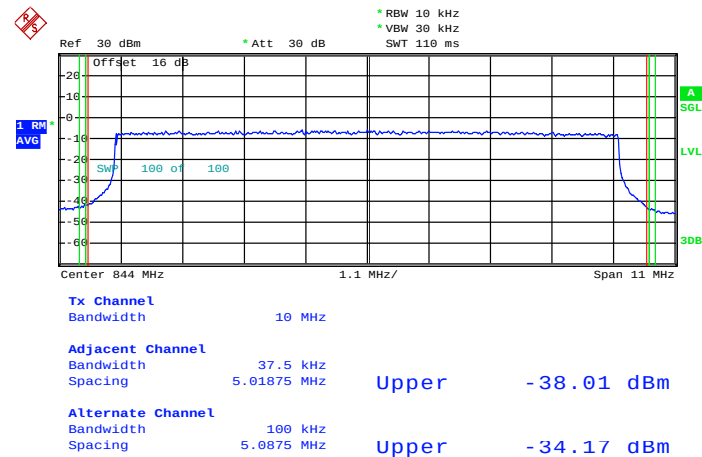
Lower Band Edge Plot for QPSK-RB Size 50, RB Offset 0



Date: 11.MAR.2014 11:06:23

Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 49


Date: 11.MAR.2014 11:29:54

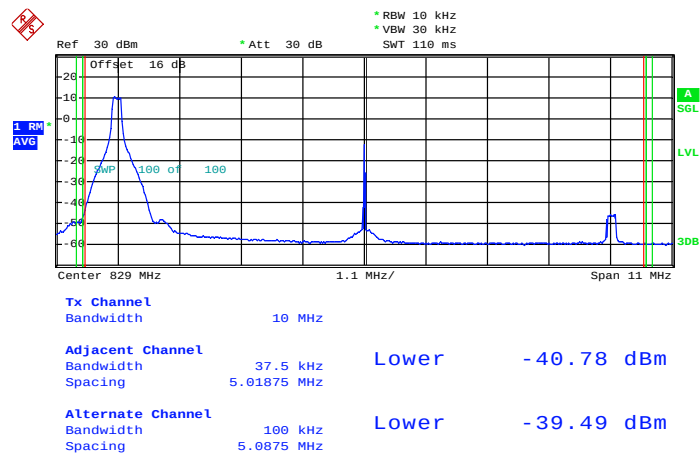
Higher Band Edge Plot for QPSK-RB Size 50, RB Offset 0


Date: 11.MAR.2014 11:28:28



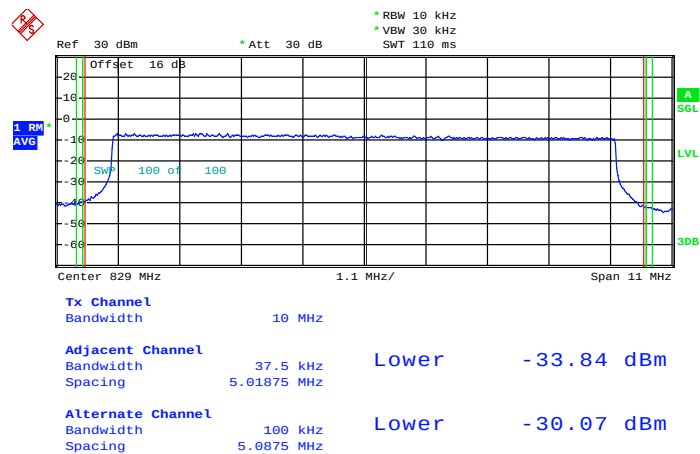
Band :	LTE Band 26	Band Width :	10MHz / 16QAM
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Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



Date: 11.MAR.2014 11:05:25

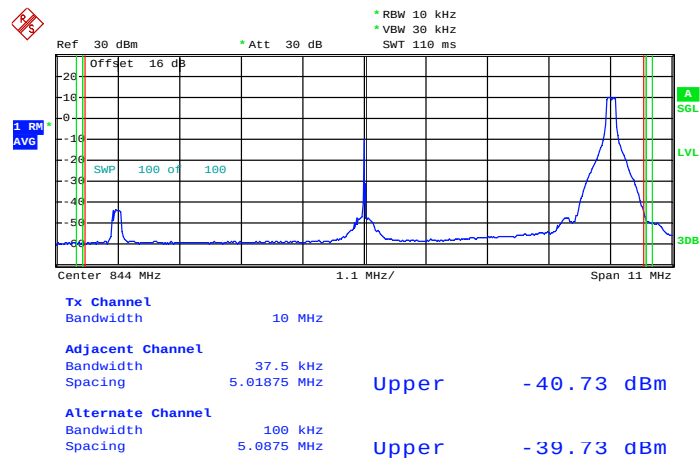
Lower Band Edge Plot for 16QAM-RB Size 50, RB Offset 0



Date: 11.MAR.2014 11:08:21

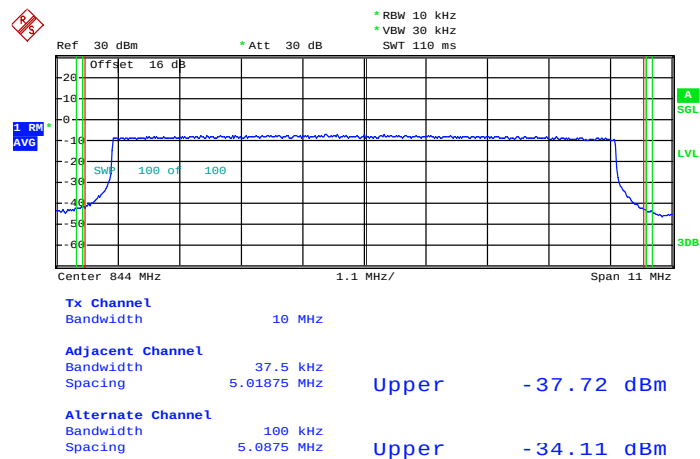


Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 49



Date: 11.MAR.2014 11:29:29

Higher Band Edge Plot for 16QAM-RB Size 50, RB Offset 0

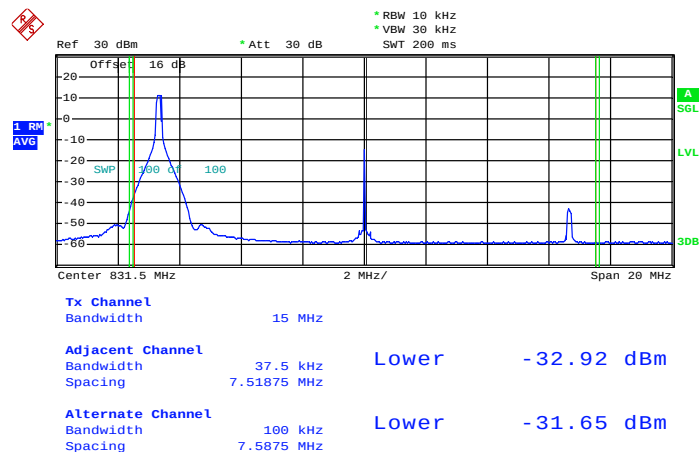


Date: 11.MAR.2014 11:28:54



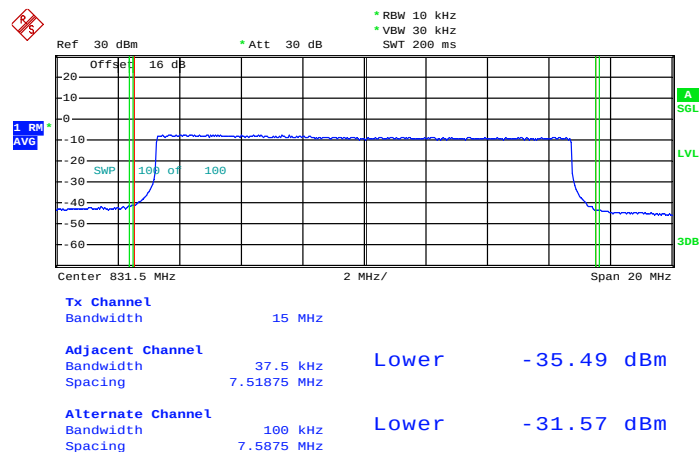
Band :	LTE Band 26	Band Width :	15MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



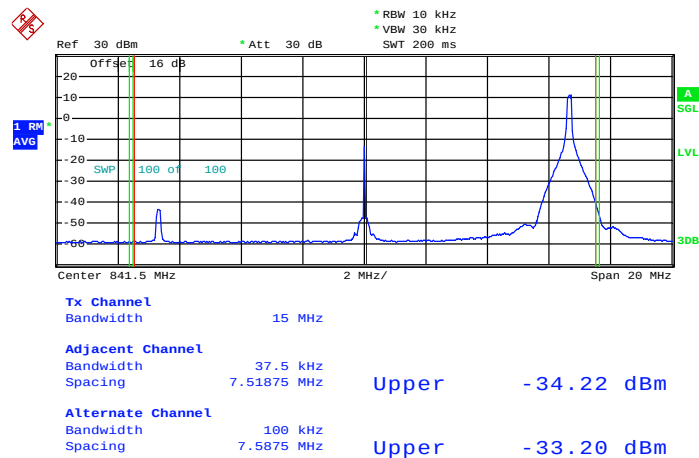
Date: 11.MAR.2014 11:59:16

Lower Band Edge Plot for QPSK-RB Size 75, RB Offset 0



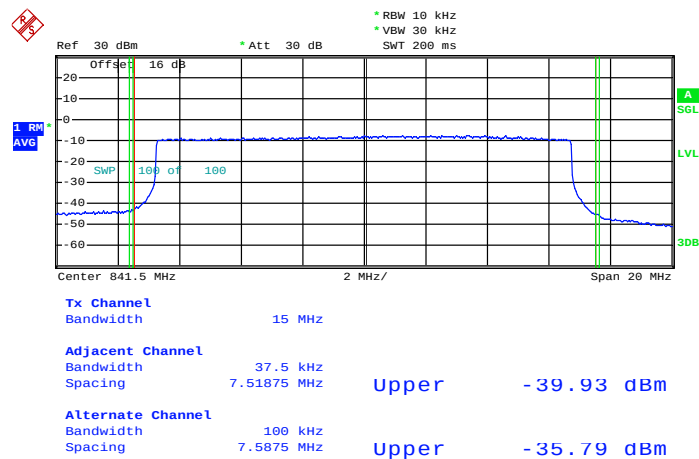
Date: 11.MAR.2014 11:57:27

Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 74



Date: 11.MAR.2014 12:00:22

Higher Band Edge Plot for QPSK-RB Size 75, RB Offset 0

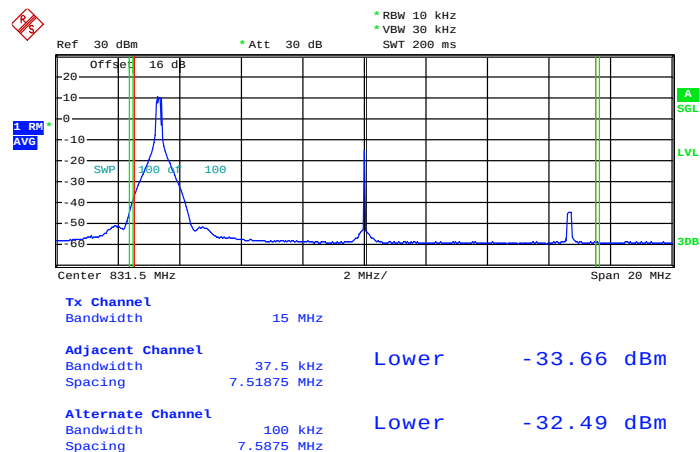


Date: 11.MAR.2014 12:02:11



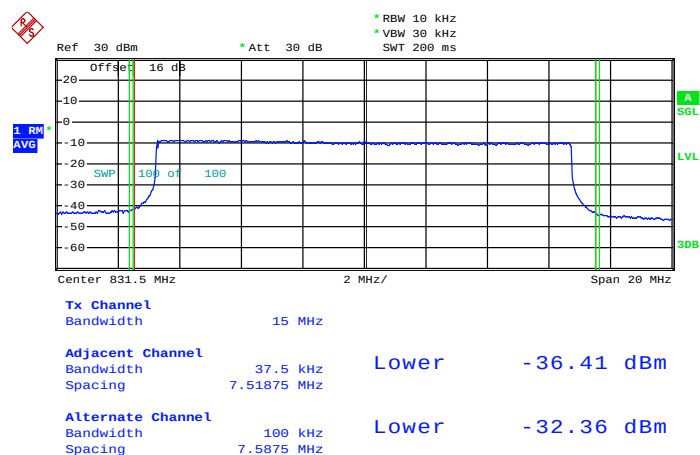
Band :	LTE Band 26	Band Width :	15MHz / 16QAM
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Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



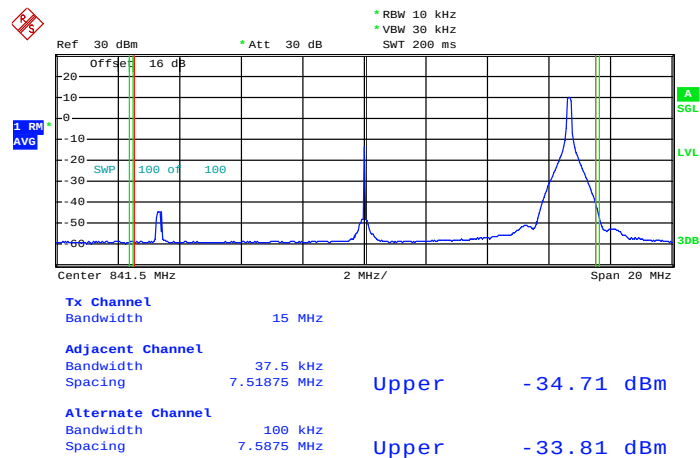
Date: 11.MAR.2014 11:58:44

Lower Band Edge Plot for 16QAM-RB Size 75, RB Offset 0



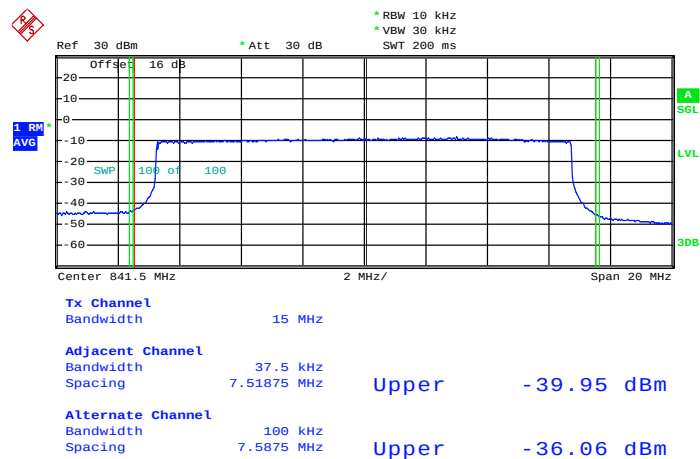
Date: 11.MAR.2014 11:58:00

Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 74



Date: 11.MAR.2014 12:00:56

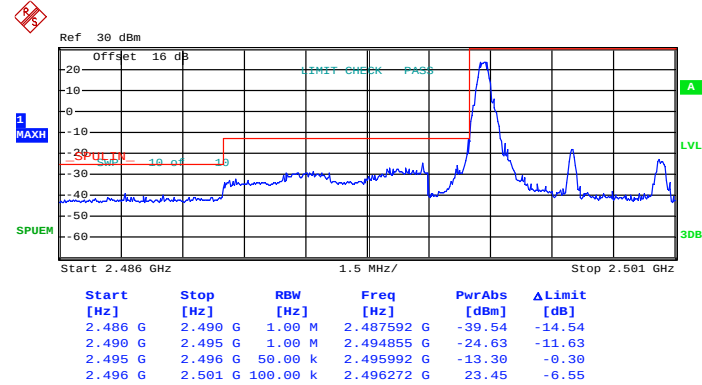
Higher Band Edge Plot for 16QAM-RB Size 75, RB Offset 0



Date: 11.MAR.2014 12:01:37

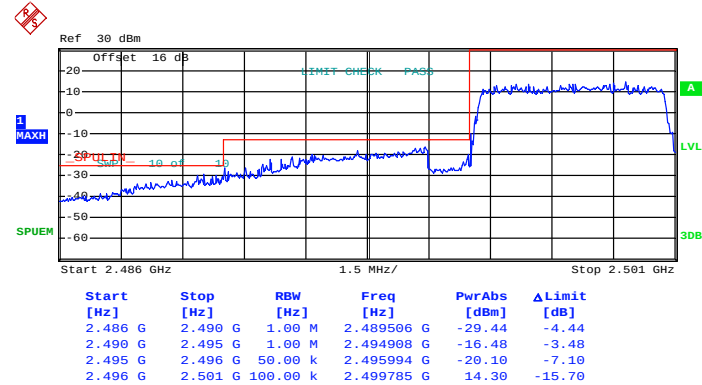
Band :	LTE Band 41	Band Width :	5MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



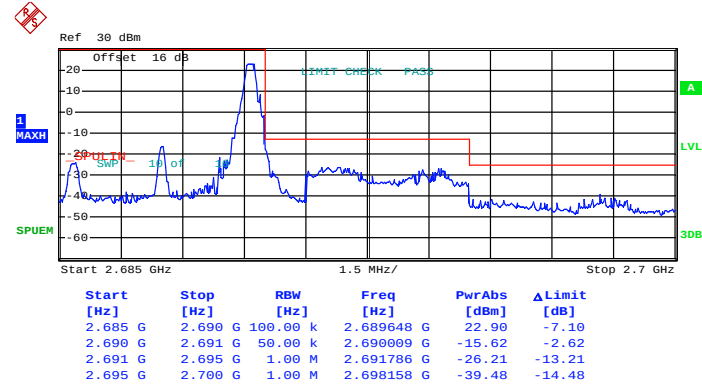
Date: 3.APR.2014 20:17:11

Lower Band Edge Plot for QPSK-RB Size 25, RB Offset 0



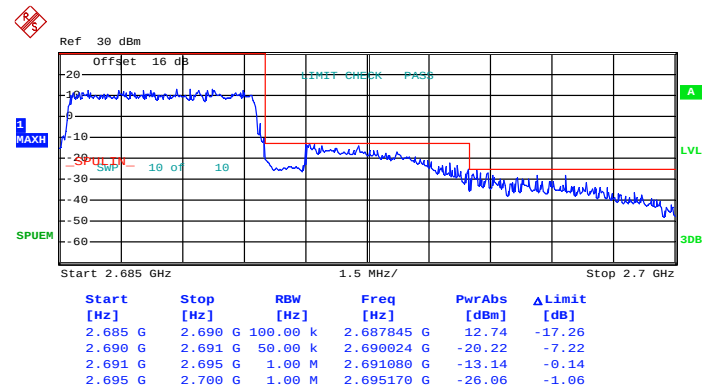
Date: 3.APR.2014 20:18:11

Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 24



Date: 3.APR.2014 20:15:48

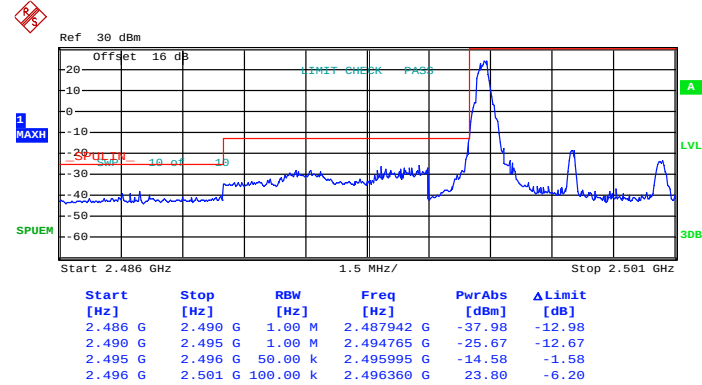
Higher Band Edge Plot for QPSK-RB Size 25, RB Offset 0



Date: 3.APR.2014 20:08:45

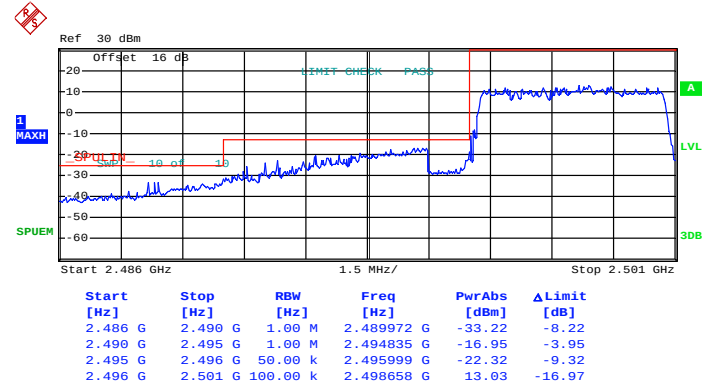
Band :	LTE Band 41	Band Width :	5MHz / 16QAM
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Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



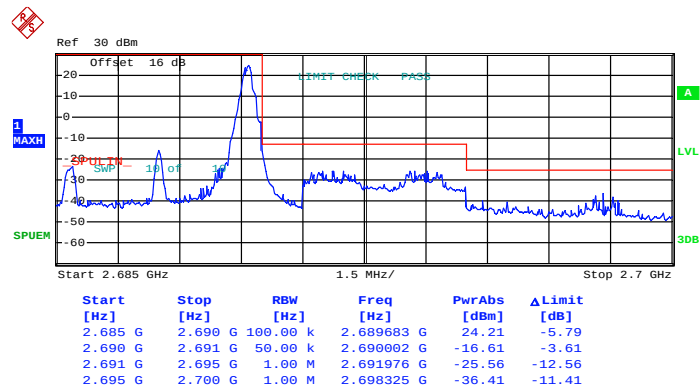
Date: 3.APR.2014 20:17:29

Lower Band Edge Plot for 16QAM-RB Size 25, RB Offset 0



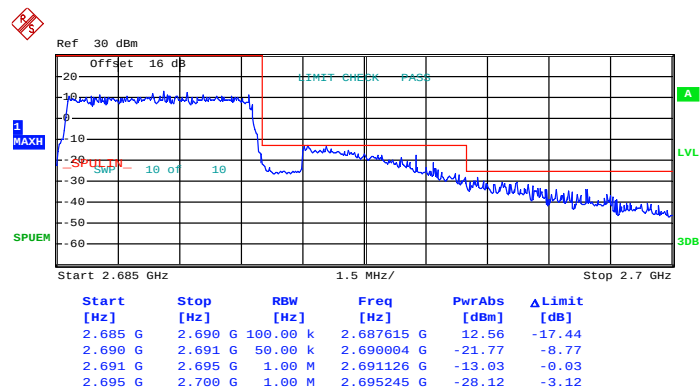
Date: 3.APR.2014 20:17:51

Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 24



Date: 3.APR.2014 20:15:33

Higher Band Edge Plot for 16QAM-RB Size 25, RB Offset 0



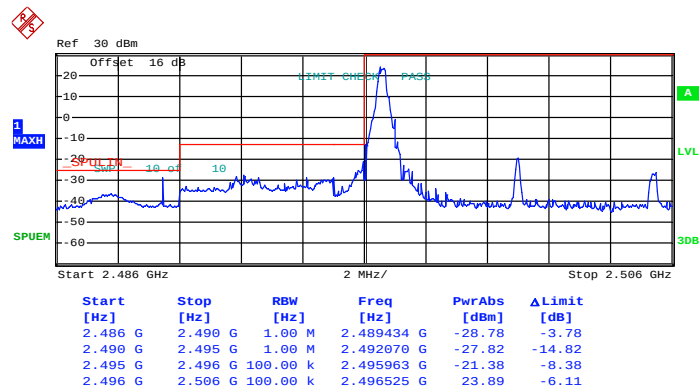
Date: 3.APR.2014 20:14:54



Band : LTE Band 41

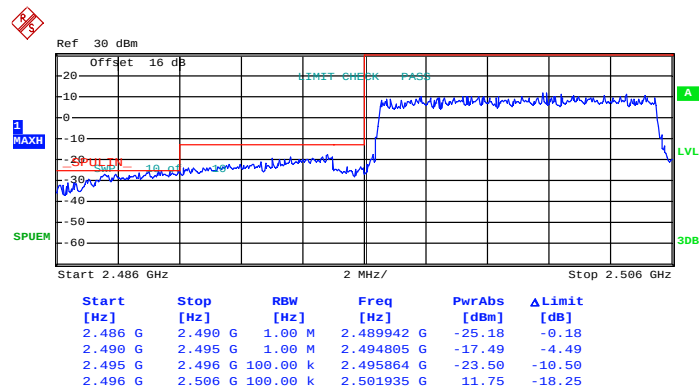
Band Width : 10MHz / QPSK

Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 3.APR.2014 20:22:57

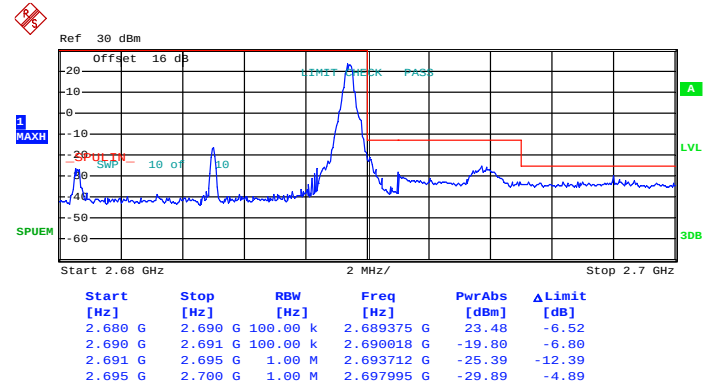
Lower Band Edge Plot for QPSK-RB Size 50, RB Offset 0



Date: 3.APR.2014 20:22:06

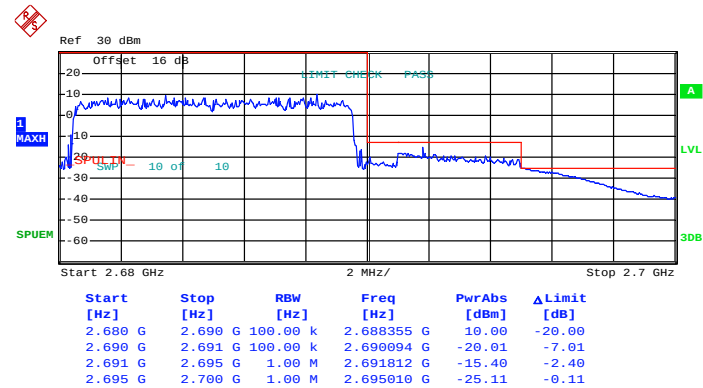


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 49



Date: 3.APR.2014 20:25:12

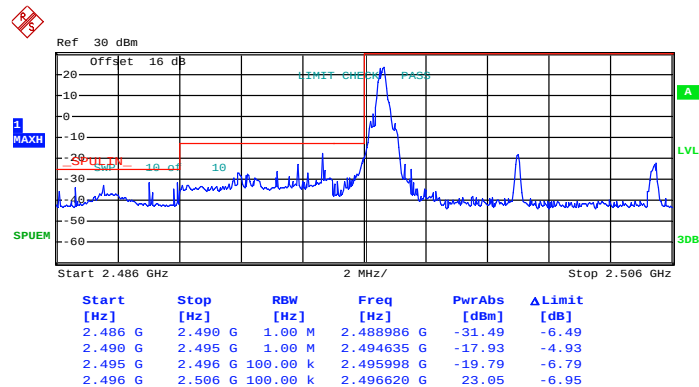
Higher Band Edge Plot for QPSK-RB Size 50, RB Offset 0



Date: 3.APR.2014 20:45:13

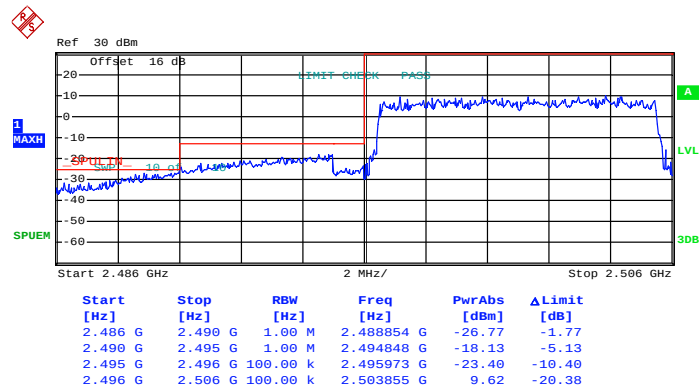
Band :	LTE Band 41	Band Width :	10MHz / 16QAM
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Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 3.APR.2014 20:22:42

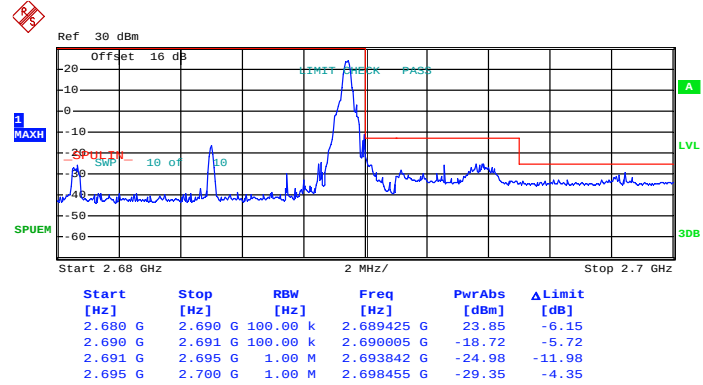
Lower Band Edge Plot for 16QAM -RB Size 50, RB Offset 0



Date: 3.APR.2014 20:22:21

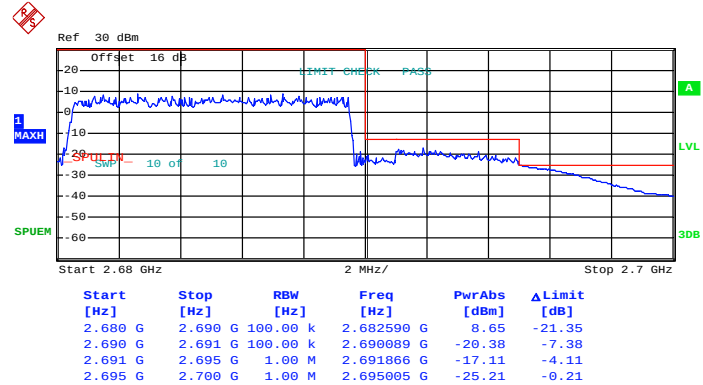


Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 49



Date: 3.APR.2014 20:25:30

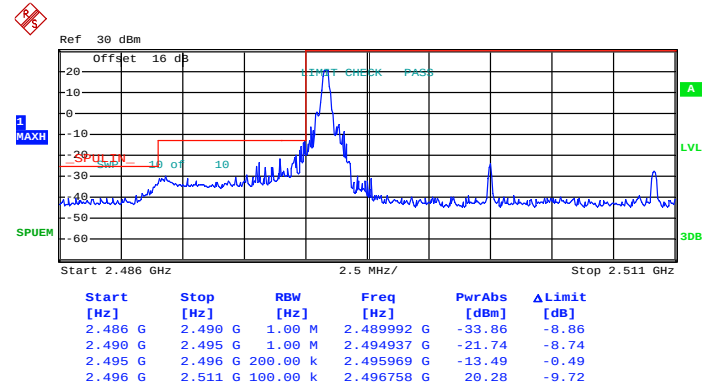
Higher Band Edge Plot for 16QAM -RB Size 50, RB Offset 0



Date: 3.APR.2014 20:40:01

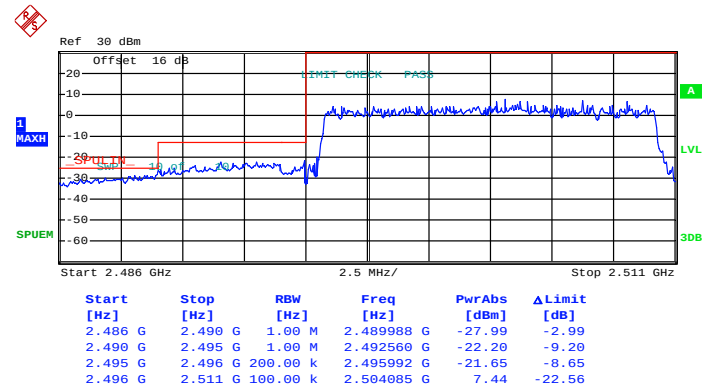
Band :	LTE Band 41	Band Width :	15MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 3.APR.2014 21:07:06

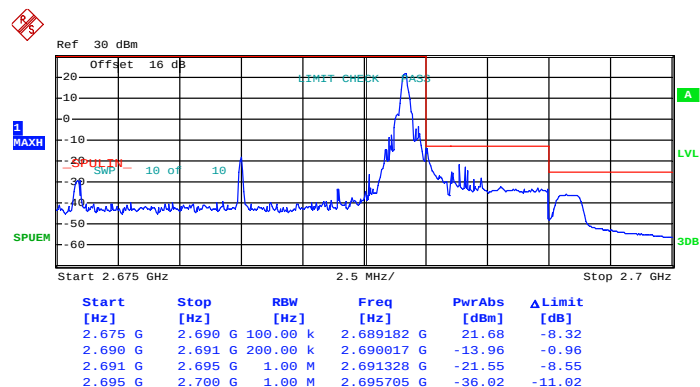
Lower Band Edge Plot for QPSK-RB Size 75, RB Offset 0



Date: 3.APR.2014 21:08:38

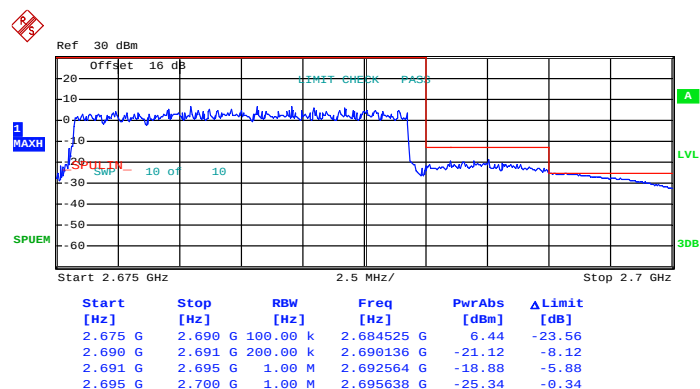


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 74



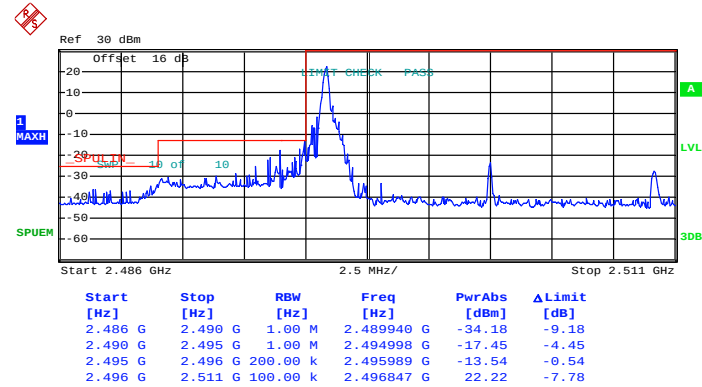
Date: 3.APR.2014 21:03:42

Higher Band Edge Plot for QPSK-RB Size 75, RB Offset 0

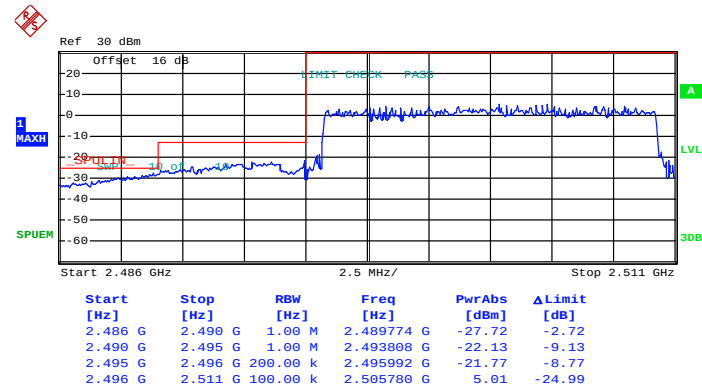


Date: 3.APR.2014 21:01:03

Band :	LTE Band 41	Band Width :	15MHz / 16QAM
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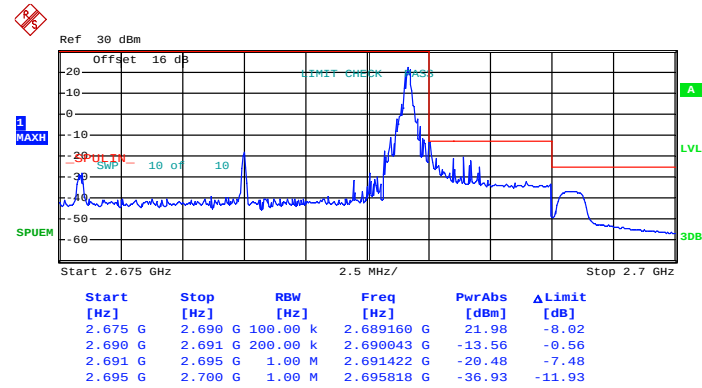
Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0


Date: 3.APR.2014 21:07:28

Lower Band Edge Plot for 16QAM-RB Size 75, RB Offset 0


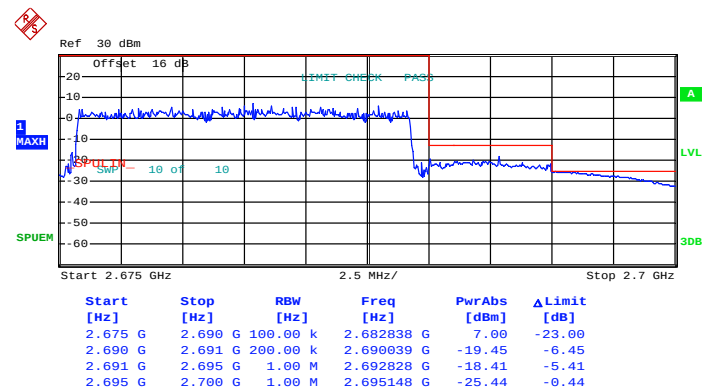
Date: 3.APR.2014 21:08:22

Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 74



Date: 3.APR.2014 21:02:51

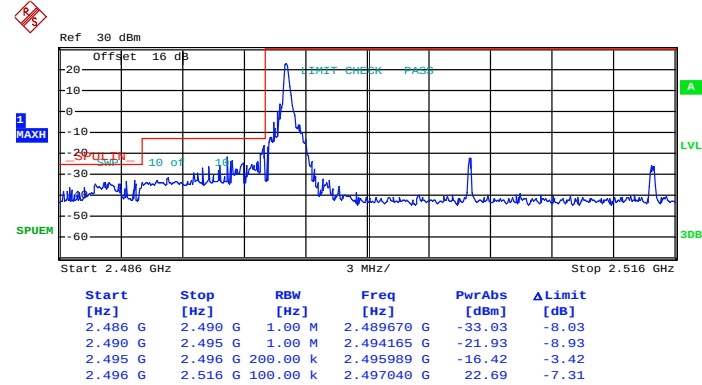
Higher Band Edge Plot for 16QAM-RB Size 75, RB Offset 0



Date: 3.APR.2014 21:01:44

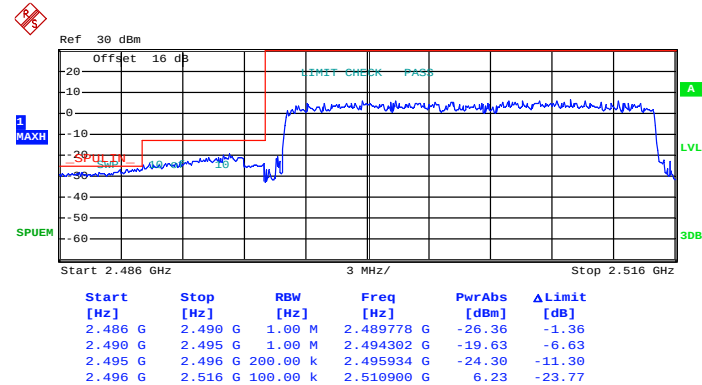
Band :	LTE Band 41	Band Width :	20MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



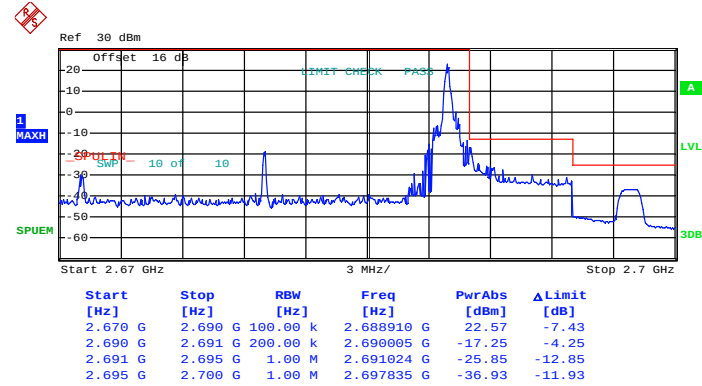
Date: 3.APR.2014 21:12:01

Lower Band Edge Plot for QPSK-RB Size 100, RB Offset 0



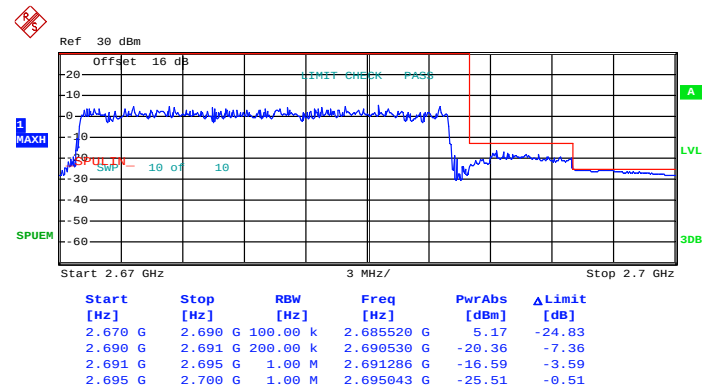
Date: 3.APR.2014 21:11:09

Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 99



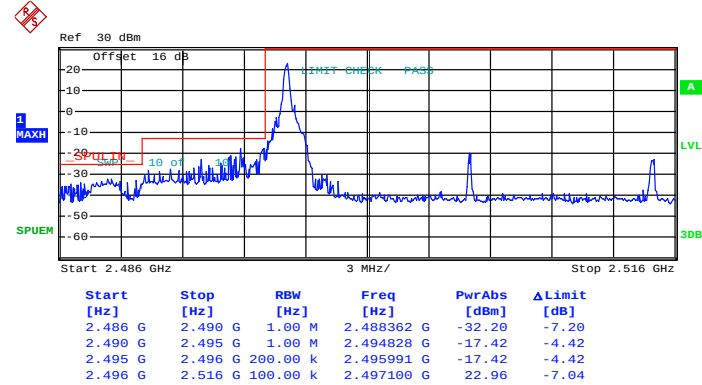
Date: 3.APR.2014 21:13:10

Higher Band Edge Plot for QPSK-RB Size 100, RB Offset 0

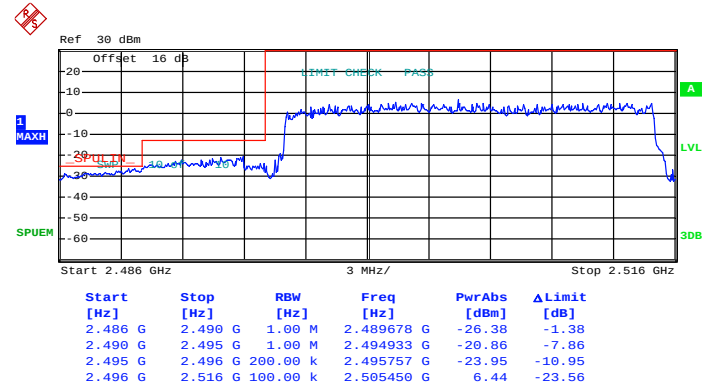


Date: 3.APR.2014 21:15:01

Band :	LTE Band 41	Band Width :	20MHz / 16QAM
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Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0


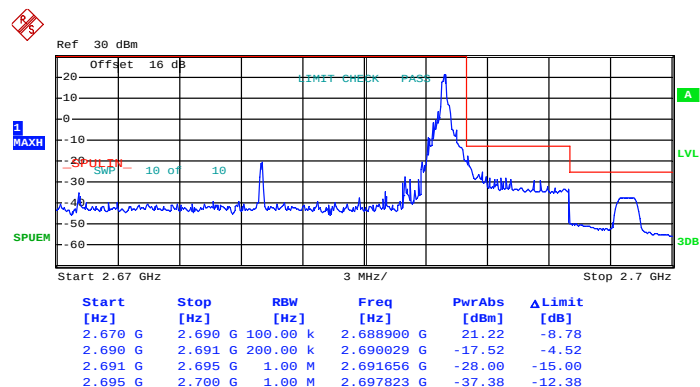
Date: 3.APR.2014 21:11:47

Lower Band Edge Plot for 16QAM-RB Size 100, RB Offset 0


Date: 3.APR.2014 21:11:24

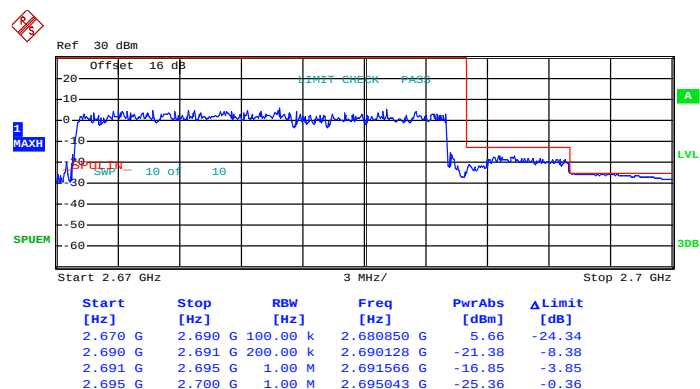


Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 99



Date: 3.APR.2014 21:13:43

Higher Band Edge Plot for 16QAM-RB Size 100, RB Offset 0



Date: 3.APR.2014 21:14:20

3.6 Conducted Spurious Emission Measurement

3.6.1 Description of Conducted Spurious Emission Measurement

For Band 25/26

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

For Band 41

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $55 + 10 \log (P)$ dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 9 kHz up to a frequency including its 10th harmonic.

3.6.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

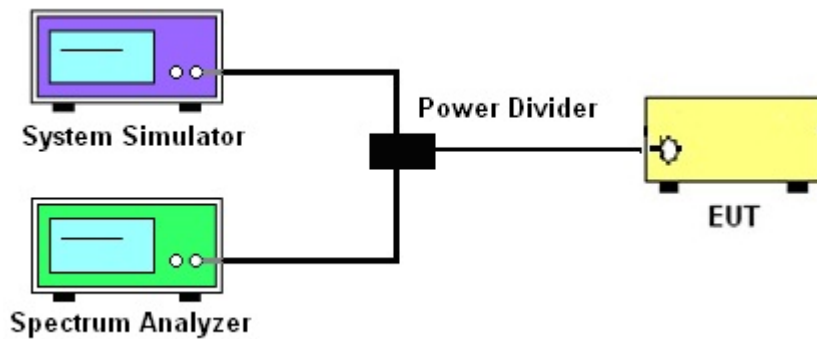
3.6.3 Test Procedures

1. The EUT was connected to spectrum analyzer and base station via power divider.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.
The path loss was compensated to the results for each measurement.
3. The middle channel for the highest RF power within the transmitting frequency was measured.
4. The conducted spurious emission for the whole frequency range was taken.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
7. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)]$ (dB)
 $= [30 + 10\log(P)]$ (dBm) - $[43 + 10\log(P)]$ (dB)
 $= -13$ dBm.

For Band 41

The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P(Watts)

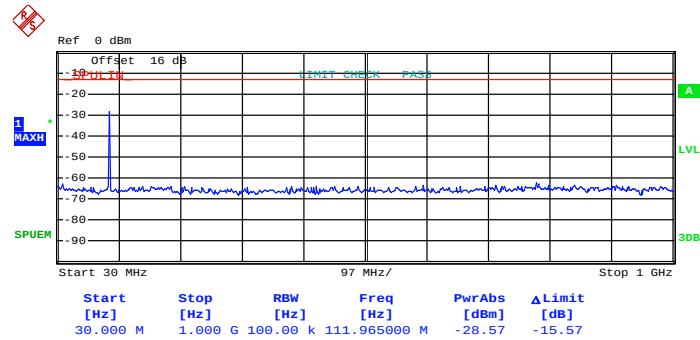
3.6.4 Test Setup



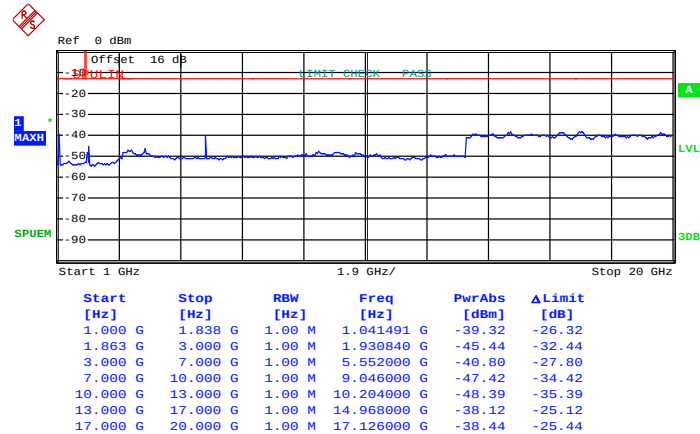
3.6.5 Test Result (Plots) of Conducted Spurious Emission

Band :	LTE Band 25	Channel :	CH26047 (Low)
Band Width :	1.4MHz		

QPSK (RB Size 1, RB Offset 0)



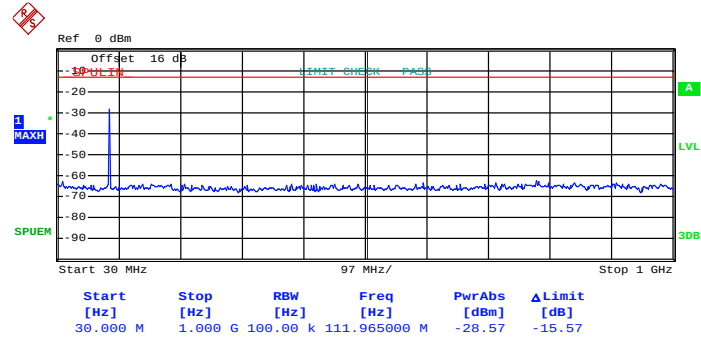
Date: 10.MAR.2014 21:31:26



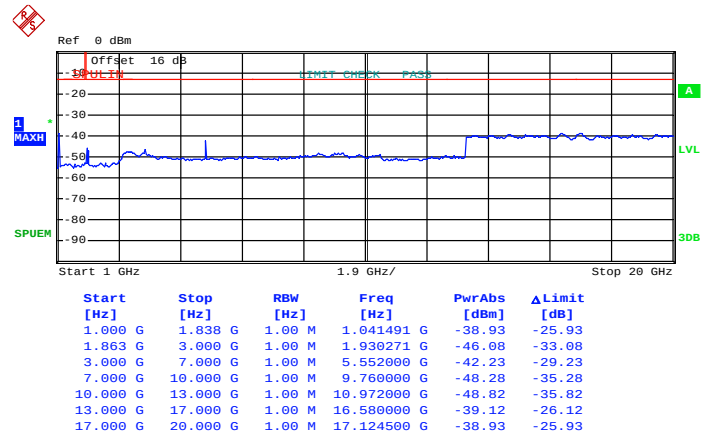
Date: 10.MAR.2014 21:31:58



16QAM (RB Size 1, RB Offset 0)

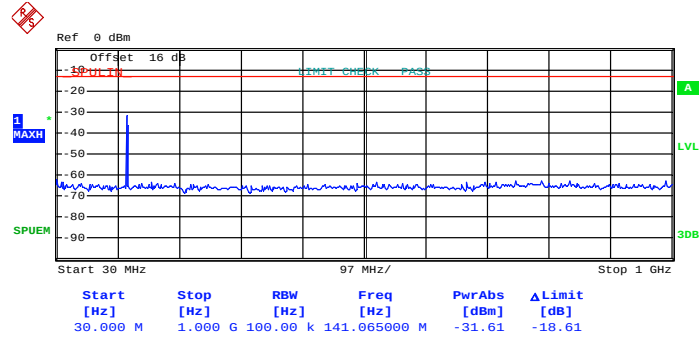


Date: 10.MAR.2014 21:31:26

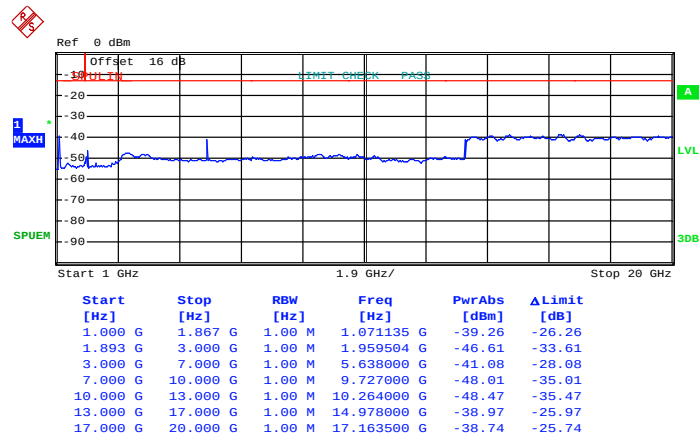


Date: 10.MAR.2014 21:32:25

Band :	LTE Band 25	Channel :	CH26340 (Middle)
Band Width :	1.4MHz		

QPSK (RB Size 1, RB Offset 0)


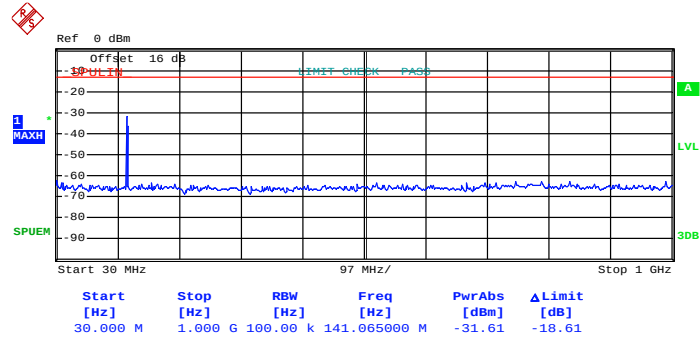
Date: 10.MAR.2014 21:09:59



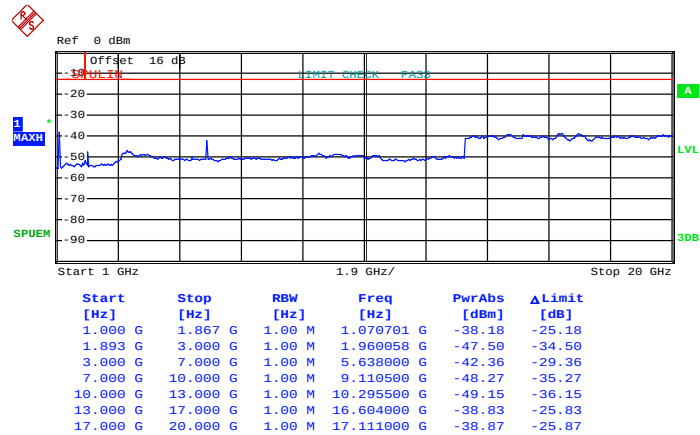
Date: 10.MAR.2014 21:10:45



16QAM (RB Size 1, RB Offset 0)



Date: 10.MAR.2014 21:09:59

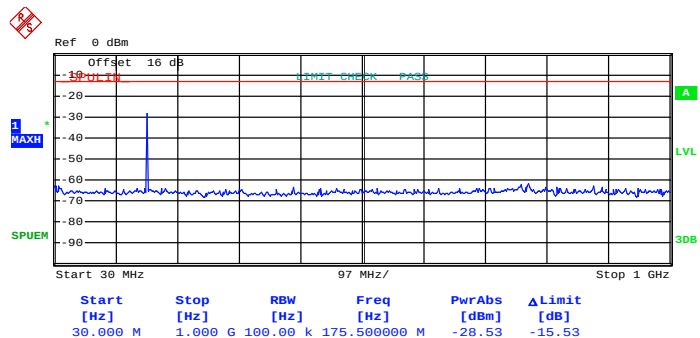


Date: 10.MAR.2014 21:11:00

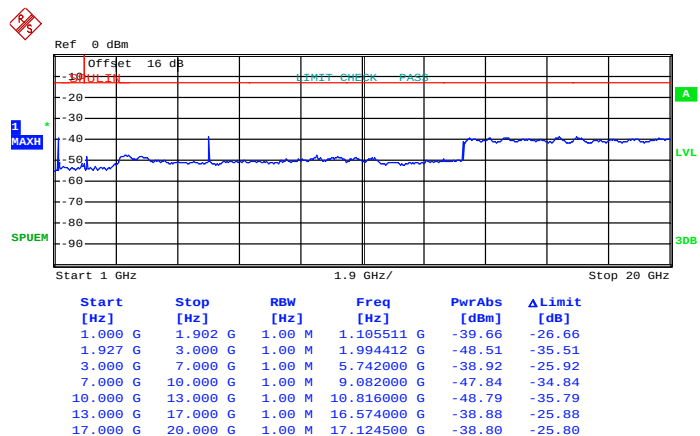


Band :	LTE Band 25	Channel :	CH26683 (High)
Band Width :	1.4MHz		

QPSK (RB Size 1, RB Offset 0)



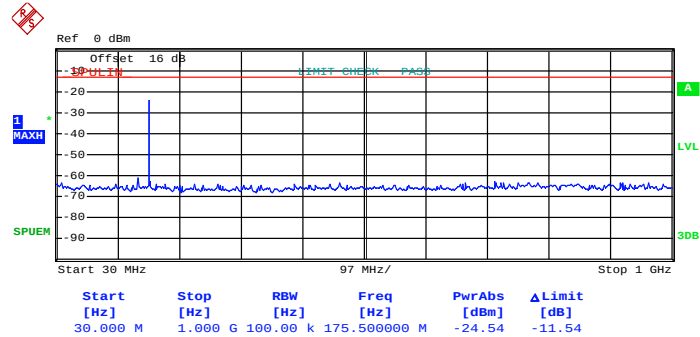
Date: 10.MAR.2014 21:33:56



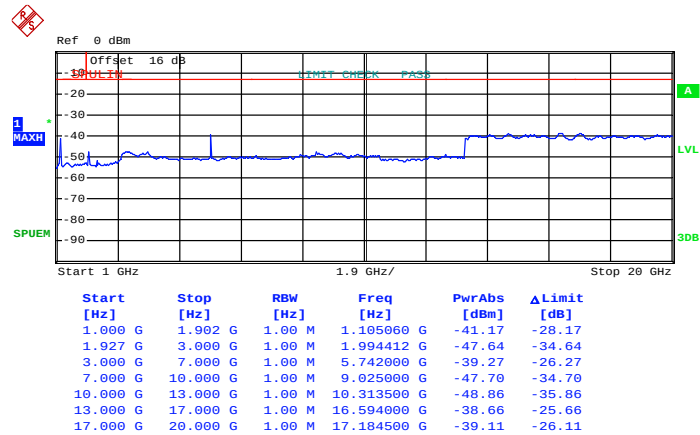
Date: 10.MAR.2014 21:33:39



16QAM (RB Size 1, RB Offset 0)



Date: 10.MAR.2014 21:34:11

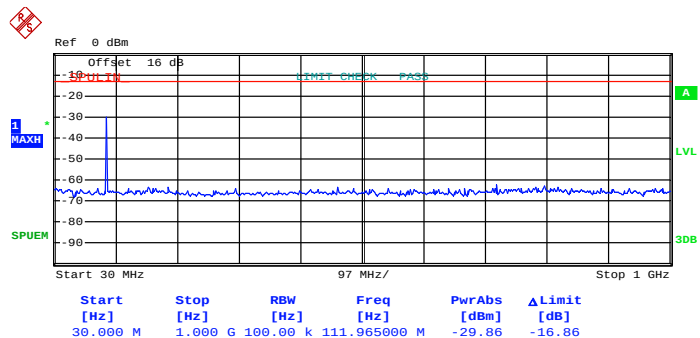


Date: 10.MAR.2014 21:33:24

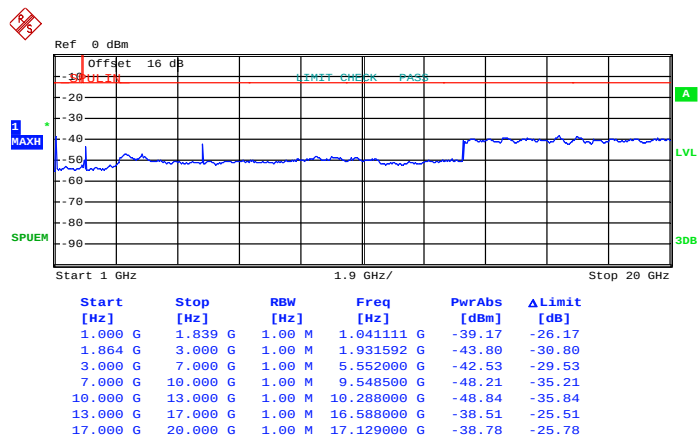


Band :	LTE Band 25	Channel :	CH26055 (Low)
Band Width :	3MHz		

QPSK (RB Size 1, RB Offset 0)



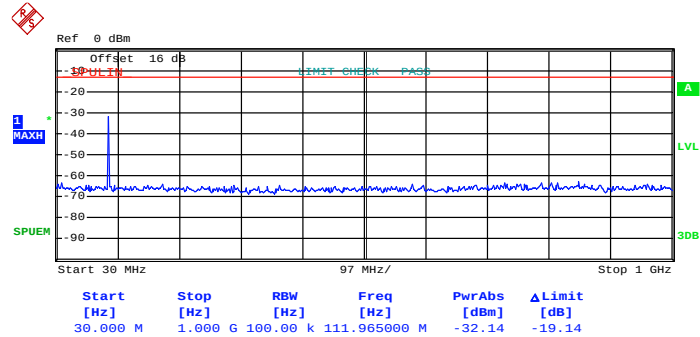
Date: 10.MAR.2014 21:39:14



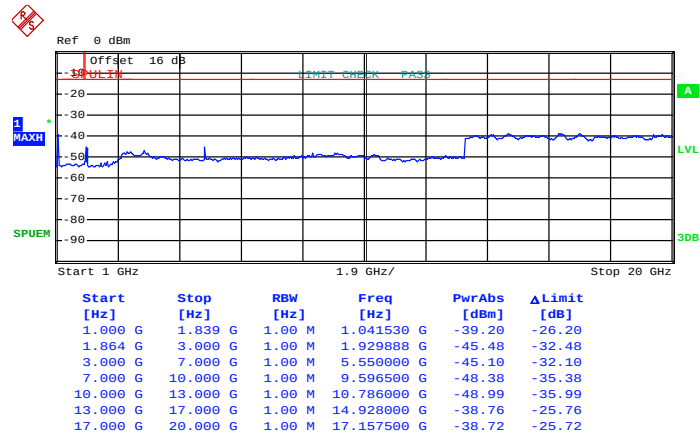
Date: 10.MAR.2014 21:38:55



16QAM (RB Size 1, RB Offset 0)



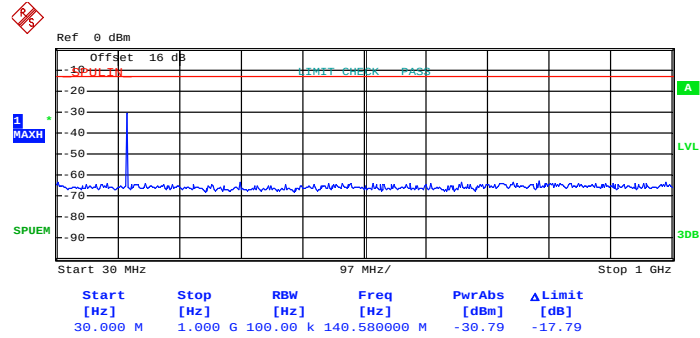
Date: 10.MAR.2014 21:39:31



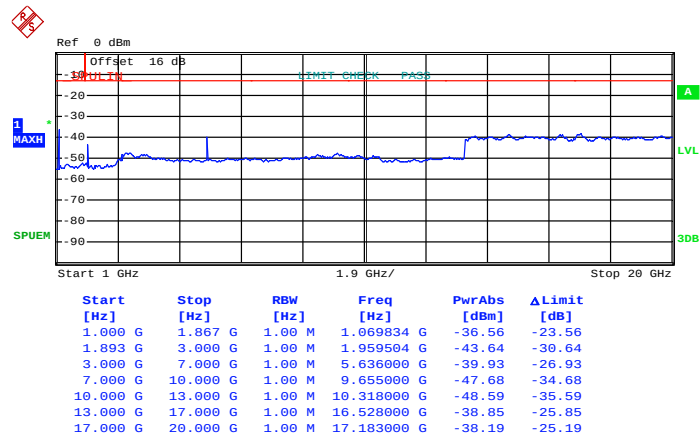
Date: 10.MAR.2014 21:38:36

Band :	LTE Band 25	Channel :	CH26340 (Middle)
Band Width :	3MHz		

QPSK (RB Size 1, RB Offset 0)

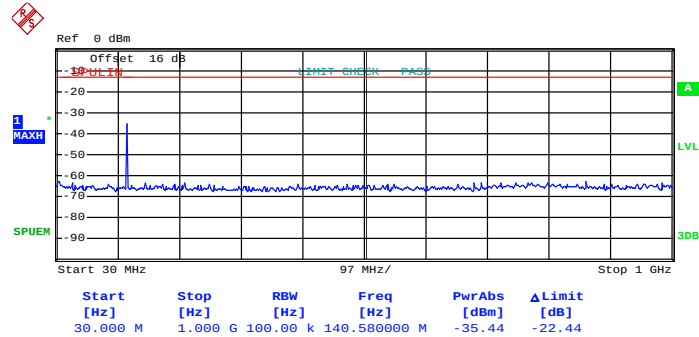


Date: 10.MAR.2014 21:12:04

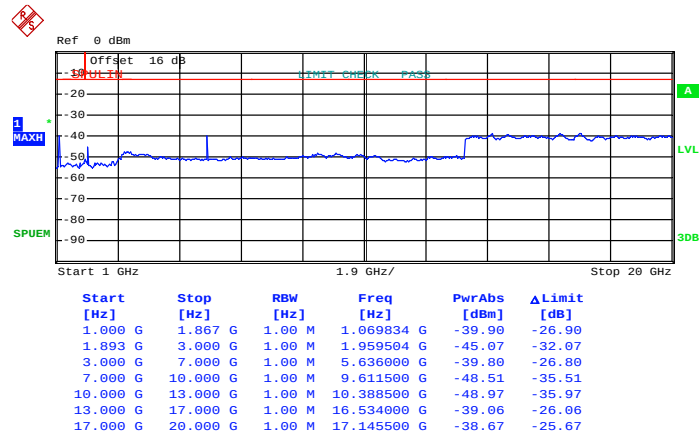


Date: 10.MAR.2014 21:11:42

16QAM (RB Size 1, RB Offset 0)

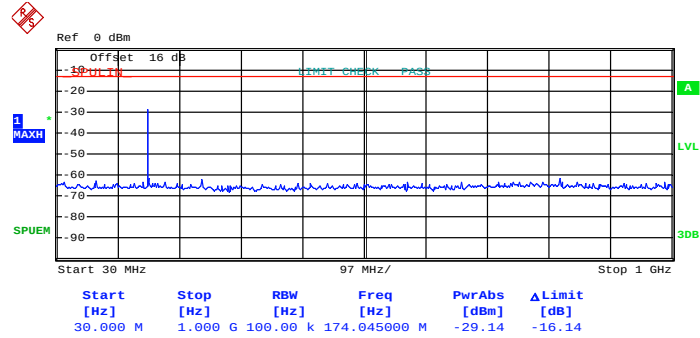


Date: 10.MAR.2014 21:12:17

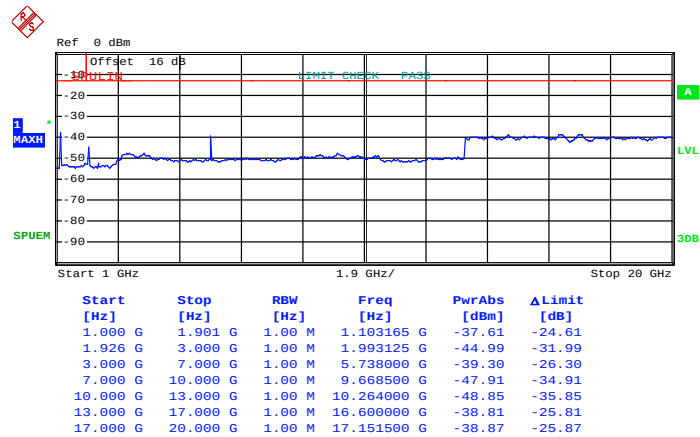


Date: 10.MAR.2014 21:11:24

Band :	LTE Band 25	Channel :	CH26675 (High)
Band Width :	3MHz		

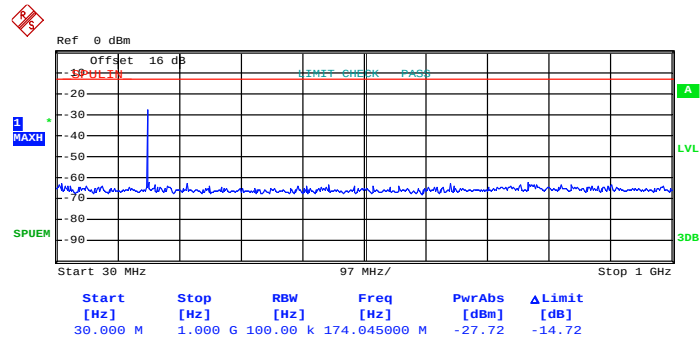
QPSK (RB Size 1, RB Offset 0)


Date: 10.MAR.2014 21:37:06

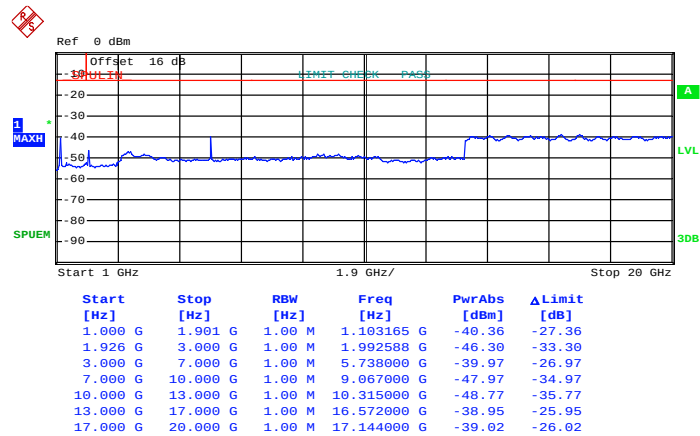


Date: 10.MAR.2014 21:37:27

16QAM (RB Size 1, RB Offset 0)



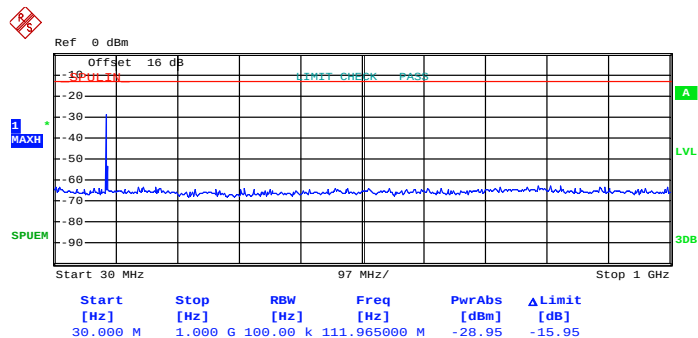
Date: 10.MAR.2014 21:36:53



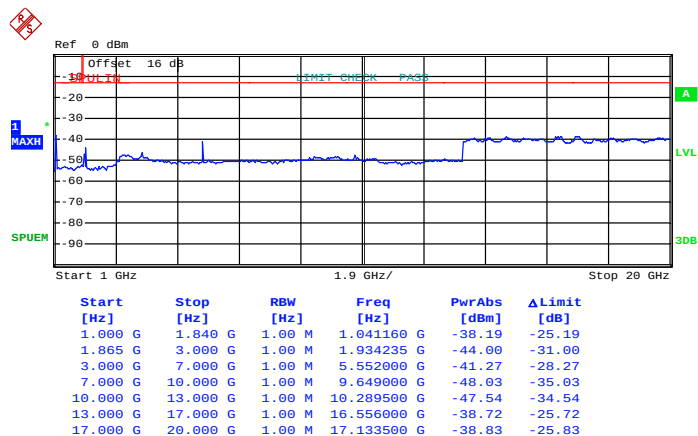
Date: 10.MAR.2014 21:37:45

Band :	LTE Band 25	Channel :	CH26065 (Low)
Band Width :	5MHz		

QPSK (RB Size 1, RB Offset 0)

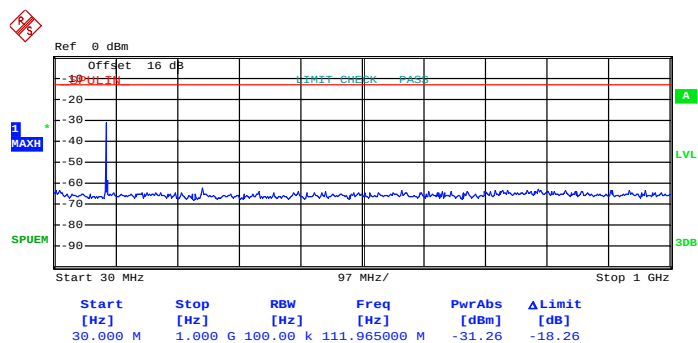


Date: 10.MAR.2014 21:40:33

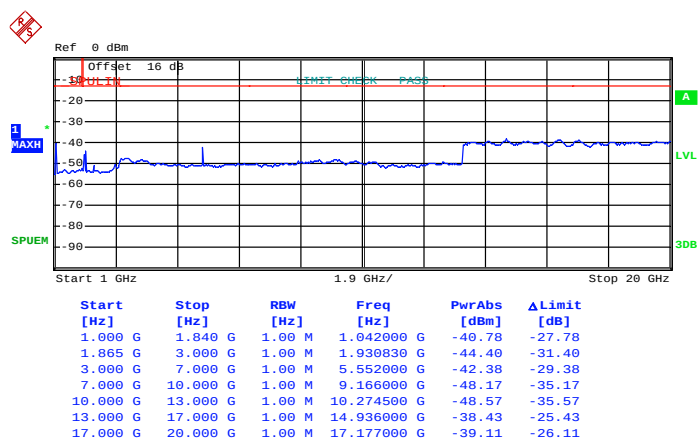


Date: 10.MAR.2014 21:40:57

16QAM (RB Size 1, RB Offset 0)



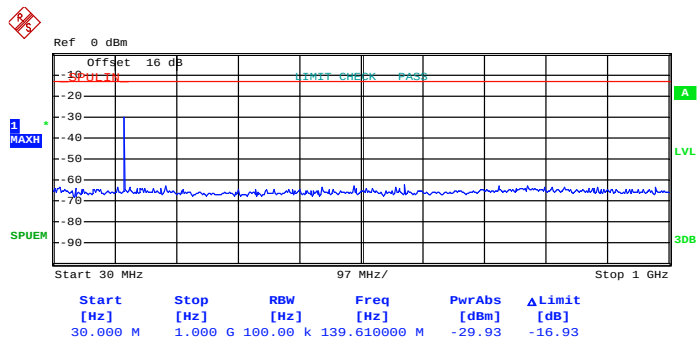
Date: 10.MAR.2014 21:40:22



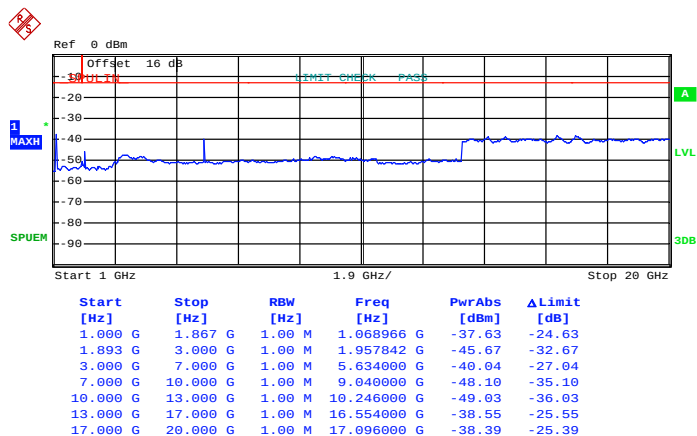
Date: 10.MAR.2014 21:41:14

Band :	LTE Band 25	Channel :	CH26340 (Middle)
Band Width :	5MHz		

QPSK (RB Size 1, RB Offset 0)

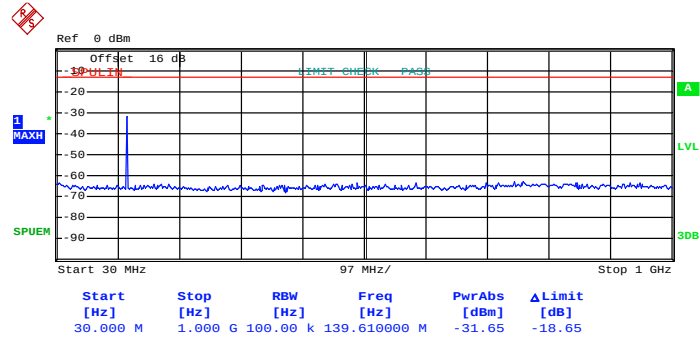


Date: 10.MAR.2014 21:12:54

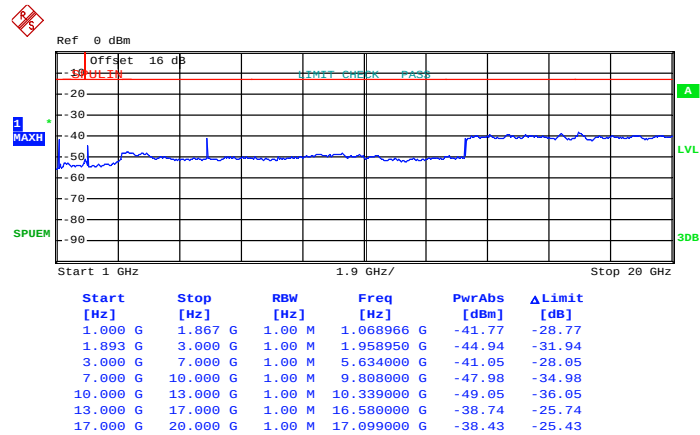


Date: 10.MAR.2014 21:13:14

16QAM (RB Size 1, RB Offset 0)



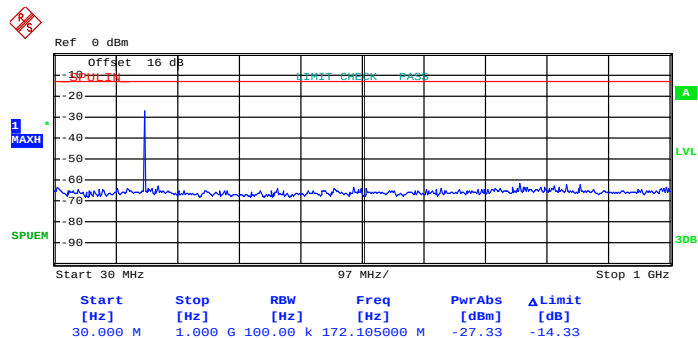
Date: 10.MAR.2014 21:12:41



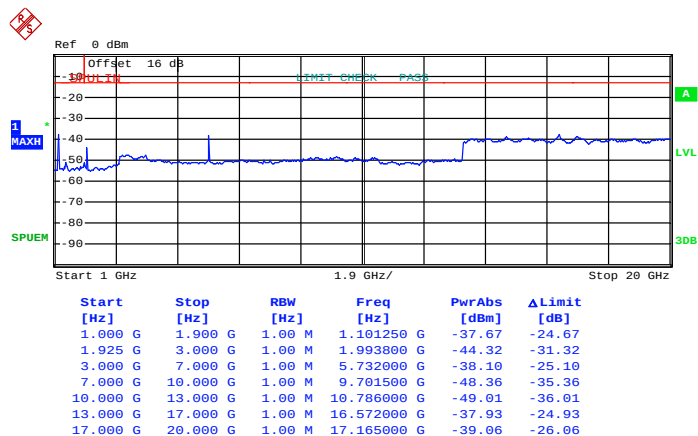
Date: 10.MAR.2014 21:13:32

Band :	LTE Band 25	Channel :	CH26665 (High)
Band Width :	5MHz		

QPSK (RB Size 1, RB Offset 0)



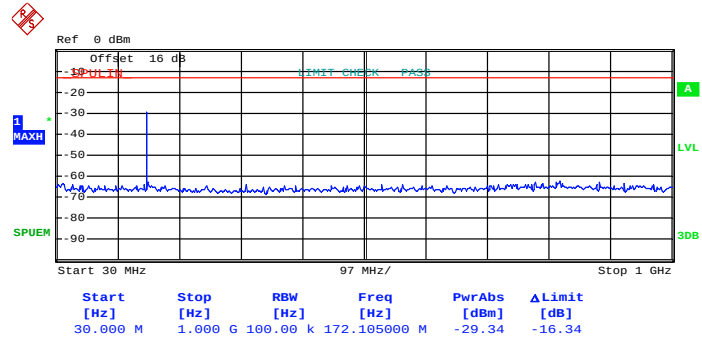
Date: 10.MAR.2014 21:42:34



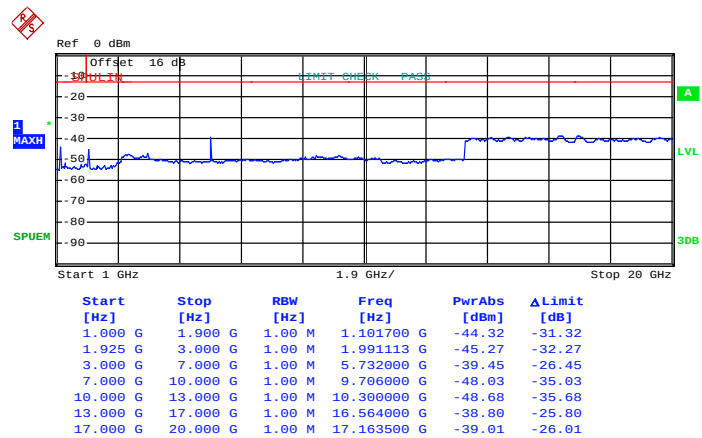
Date: 10.MAR.2014 21:42:16



16QAM (RB Size 1, RB Offset 0)



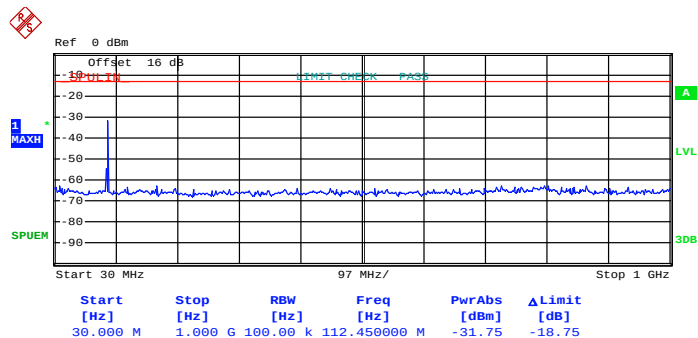
Date: 10.MAR.2014 21:42:48



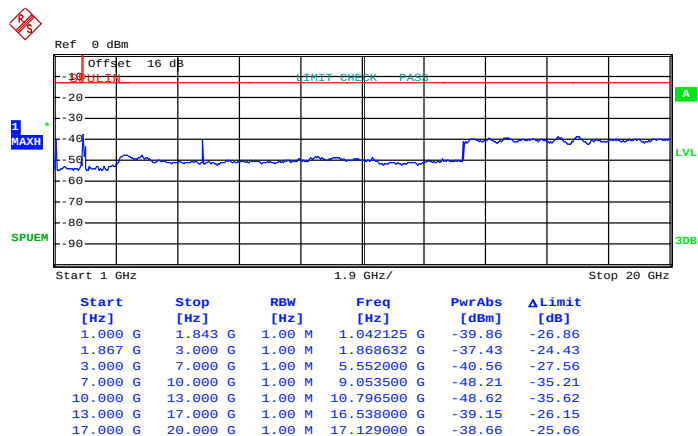
Date: 10.MAR.2014 21:42:01

Band :	LTE Band 25	Channel :	CH26090 (Low)
Band Width :	10MHz		

QPSK (RB Size 1, RB Offset 0)

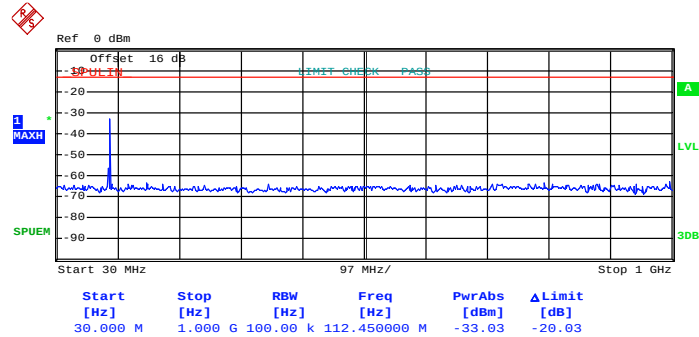


Date: 10.MAR.2014 21:46:38

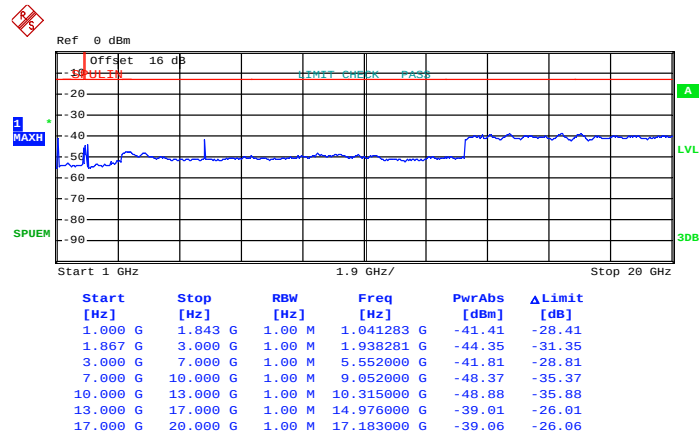


Date: 10.MAR.2014 21:46:13

16QAM (RB Size 1, RB Offset 0)



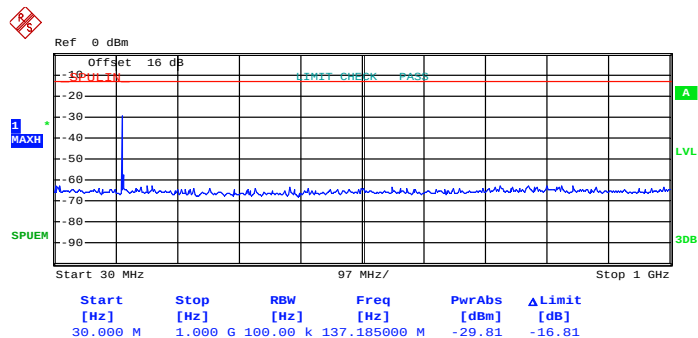
Date: 10.MAR.2014 21:46:51



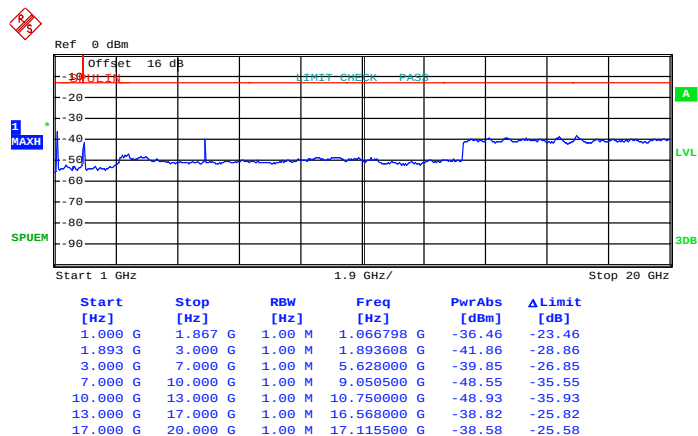
Date: 10.MAR.2014 21:45:51

Band :	LTE Band 25	Channel :	CH26340 (Middle)
Band Width :	10MHz		

QPSK (RB Size 1, RB Offset 0)

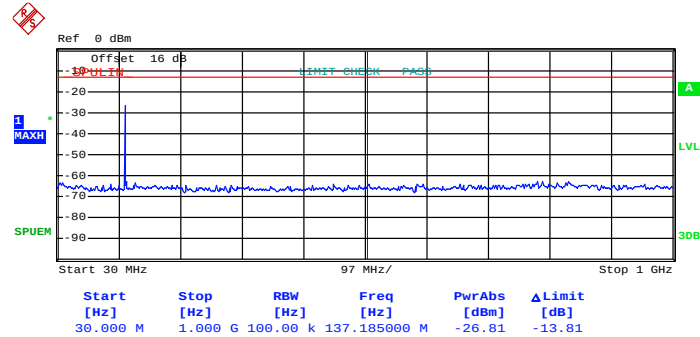


Date: 10.MAR.2014 21:14:53

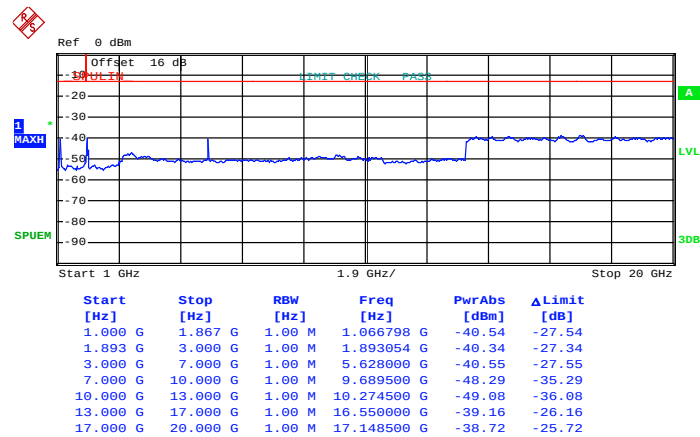


Date: 10.MAR.2014 21:15:17

16QAM (RB Size 1, RB Offset 0)

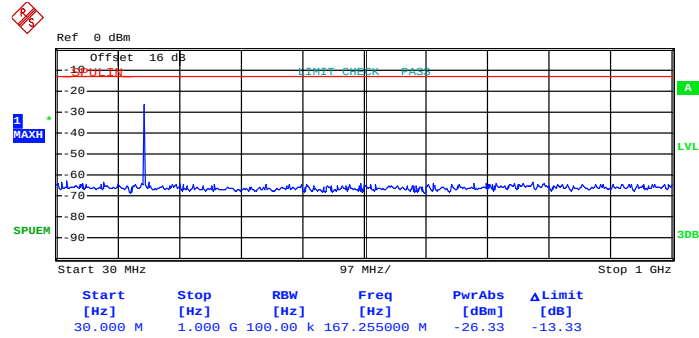


Date: 10.MAR.2014 21:14:38

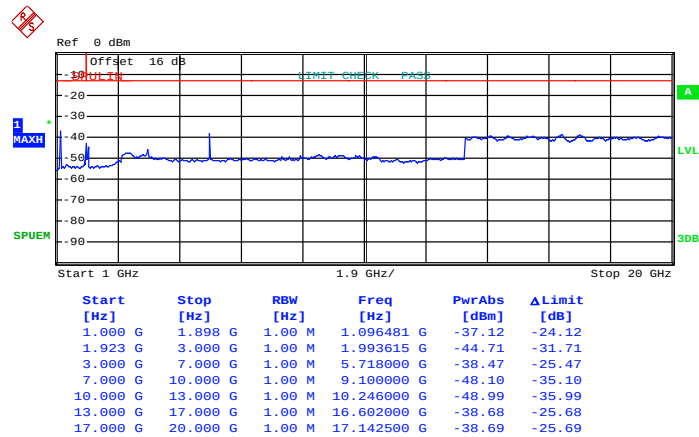


Date: 10.MAR.2014 21:15:32

Band :	LTE Band 25	Channel :	CH26640 (High)
Band Width :	10MHz		

QPSK (RB Size 1, RB Offset 0)


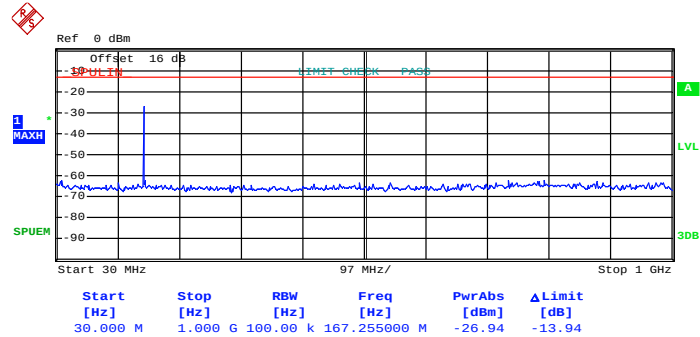
Date: 10.MAR.2014 21:43:59



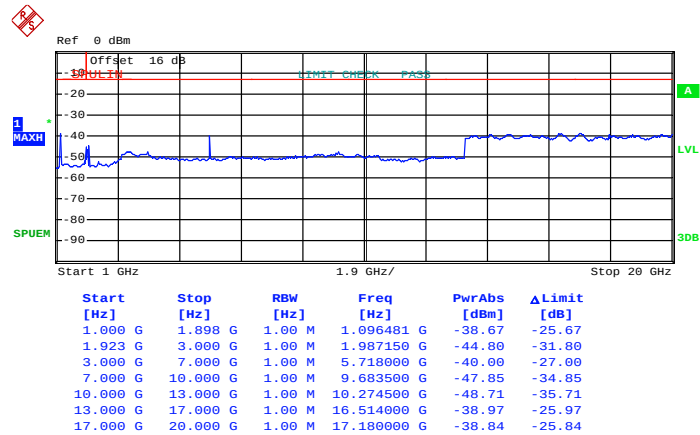
Date: 10.MAR.2014 21:44:22



16QAM (RB Size 1, RB Offset 0)



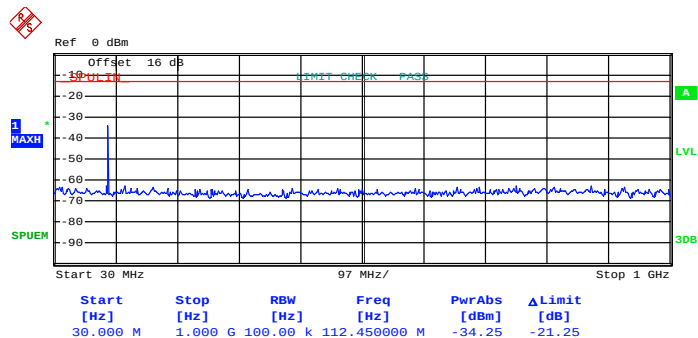
Date: 10.MAR.2014 21:43:45



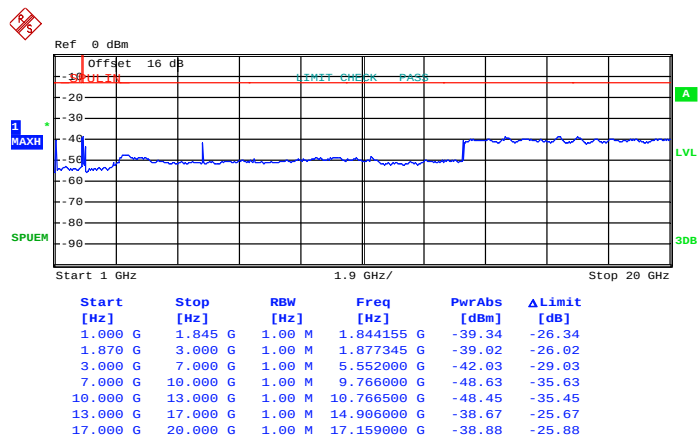
Date: 10.MAR.2014 21:44:36

Band :	LTE Band 25	Channel :	CH26115 (Low)
Band Width :	15MHz		

QPSK (RB Size 1, RB Offset 0)



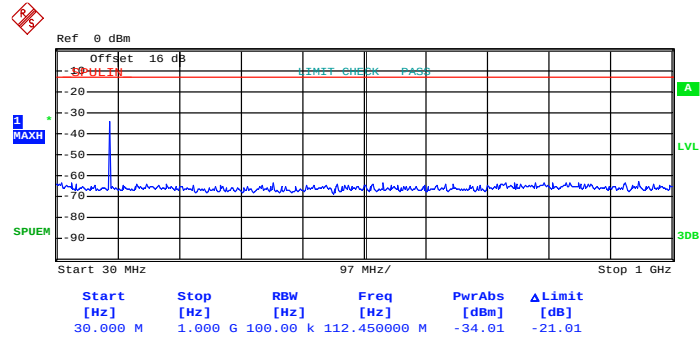
Date: 10.MAR.2014 21:49:07



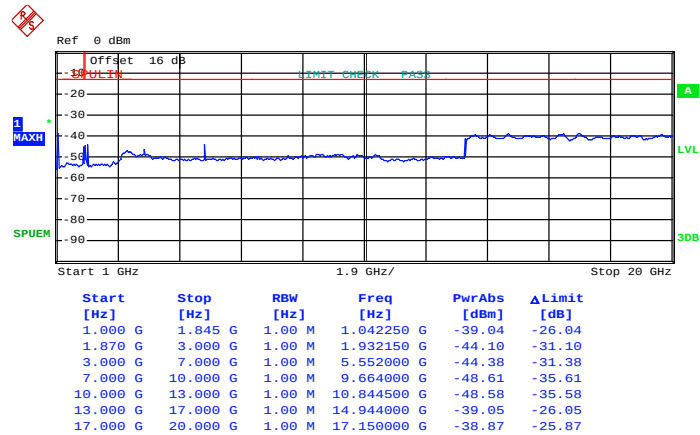
Date: 10.MAR.2014 21:49:32



16QAM (RB Size 1, RB Offset 0)

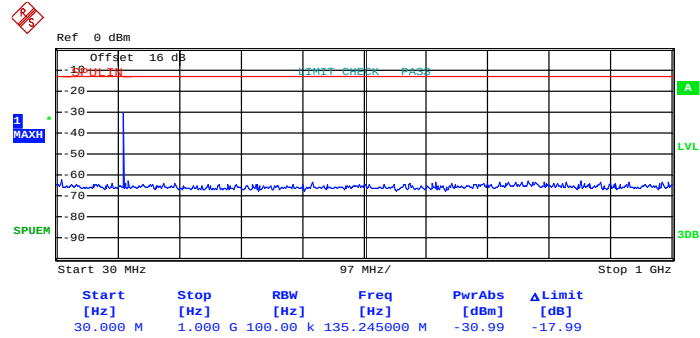


Date: 10.MAR.2014 21:48:55

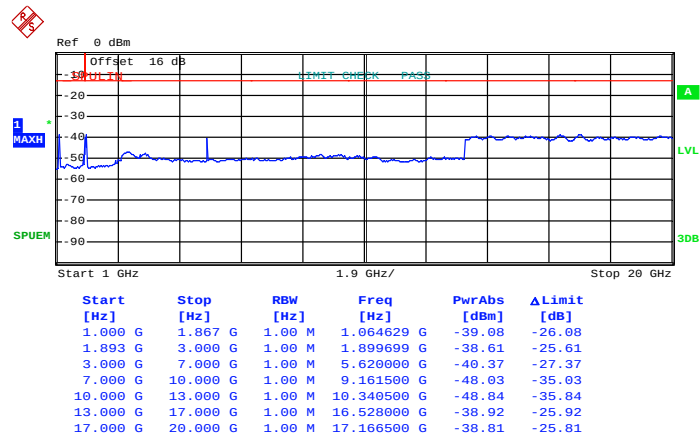


Date: 10.MAR.2014 21:49:50

Band :	LTE Band 25	Channel :	CH26340 (Middle)
Band Width :	15MHz		

QPSK (RB Size 1, RB Offset 0)


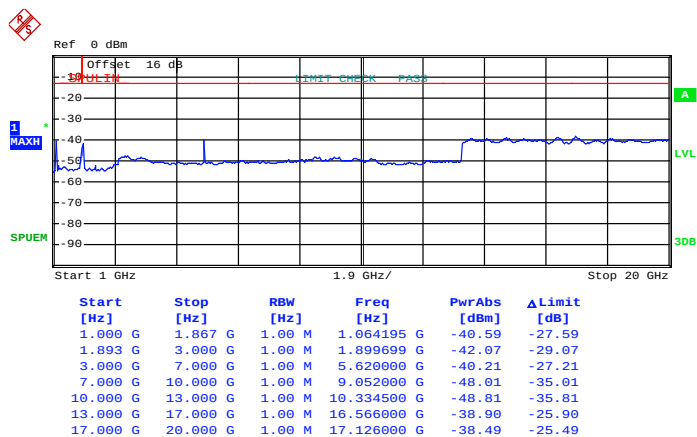
Date: 10.MAR.2014 21:17:13



Date: 10.MAR.2014 21:16:47



Date: 10.MAR.2014 21:17:31

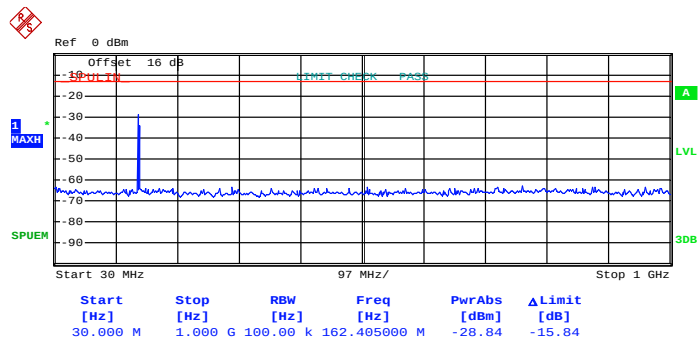


Date: 10.MAR.2014 21:16:00

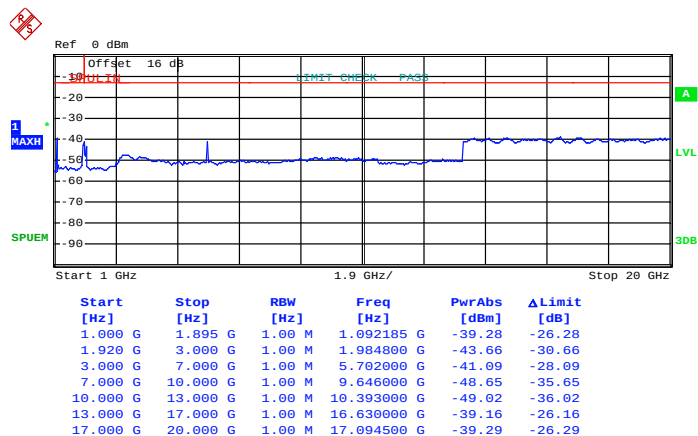


Band :	LTE Band 25	Channel :	CH26615 (High)
Band Width :	15MHz		

QPSK (RB Size 1, RB Offset 0)



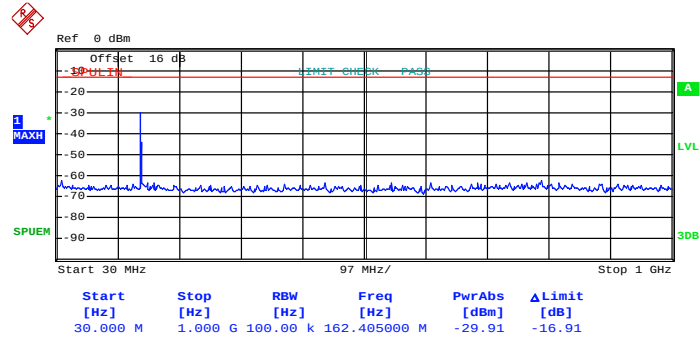
Date: 10.MAR.2014 21:51:17



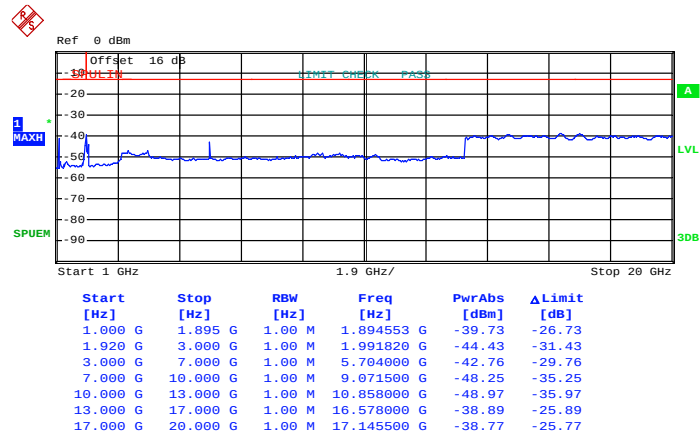
Date: 10.MAR.2014 21:51:00



16QAM (RB Size 1, RB Offset 0)

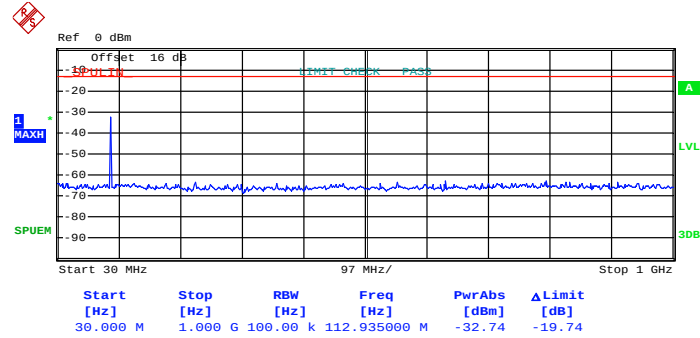


Date: 10.MAR.2014 21:51:30

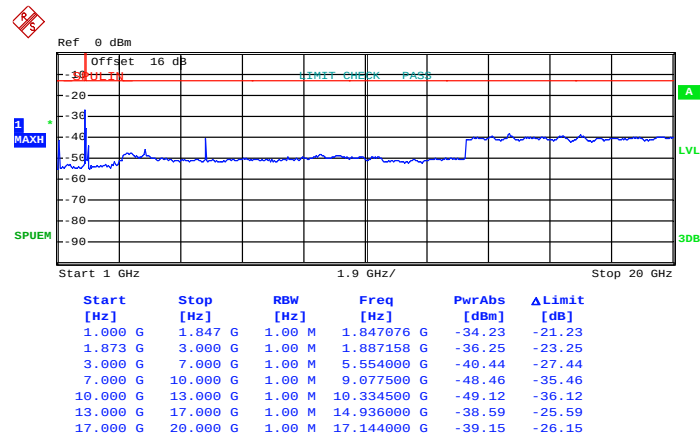


Date: 10.MAR.2014 21:50:47

Band :	LTE Band 25	Channel :	CH26140 (Low)
Band Width :	20MHz		

QPSK (RB Size 1, RB Offset 0)


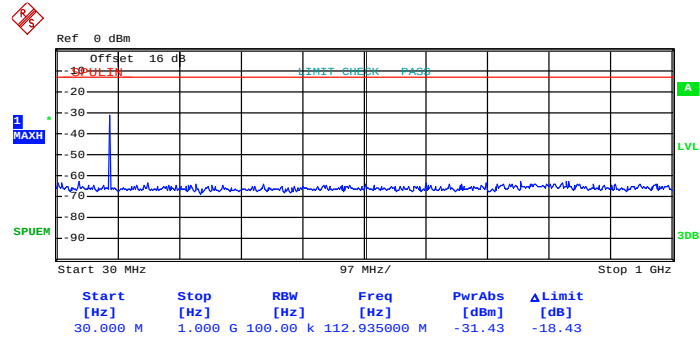
Date: 10.MAR.2014 21:54:38



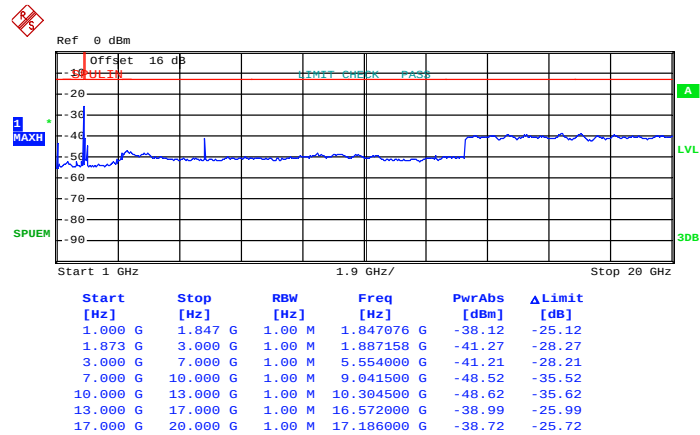
Date: 10.MAR.2014 21:54:19



16QAM (RB Size 1, RB Offset 0)



Date: 10.MAR.2014 21:54:49

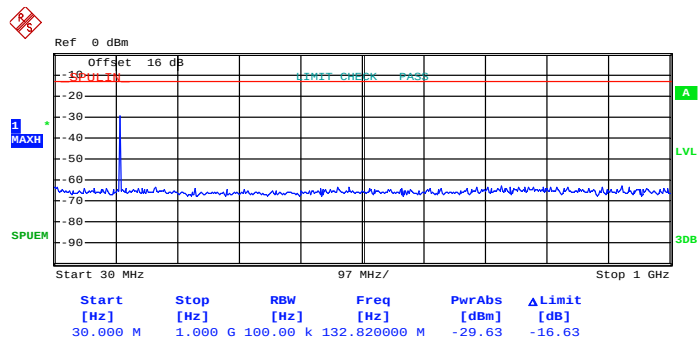


Date: 10.MAR.2014 21:54:04

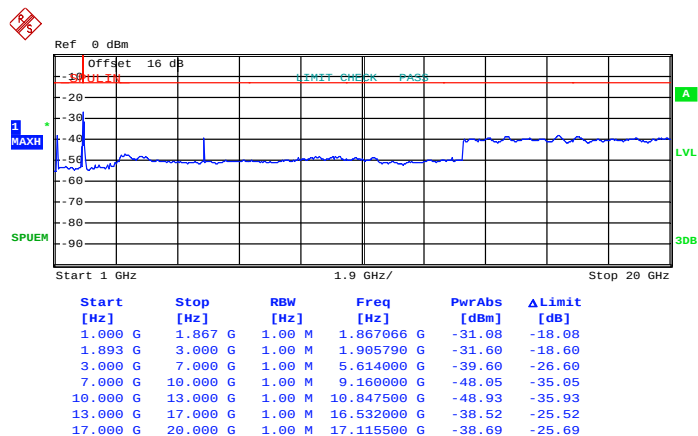


Band :	LTE Band 25	Channel :	CH26340 (Middle)
Band Width :	20MHz		

QPSK (RB Size 1, RB Offset 0)



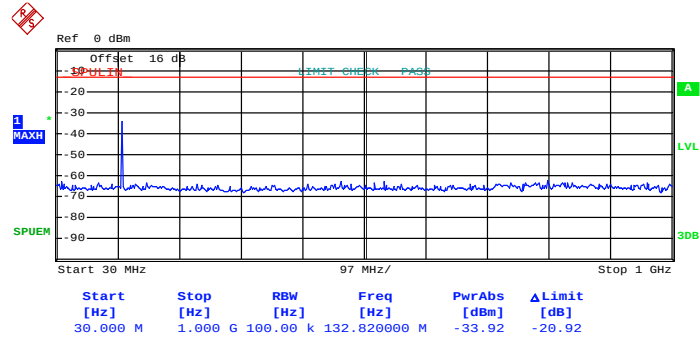
Date: 10.MAR.2014 21:21:26



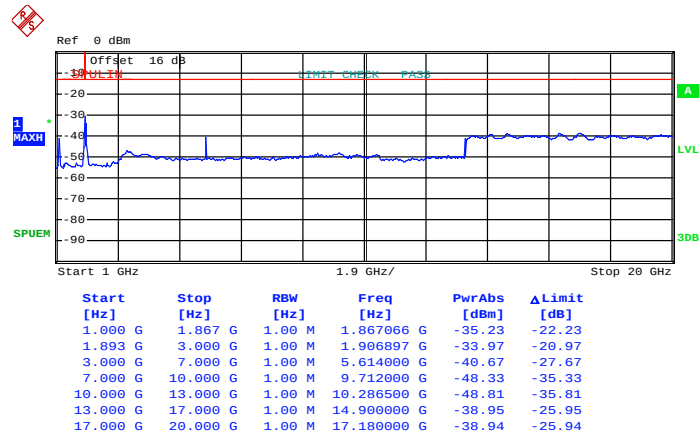
Date: 10.MAR.2014 21:20:50



16QAM (RB Size 1, RB Offset 0)



Date: 10.MAR.2014 21:17:54

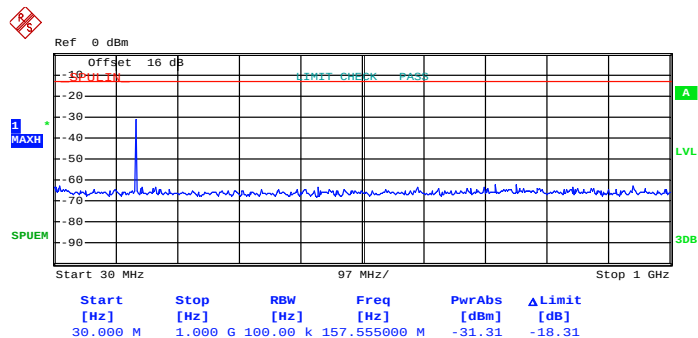


Date: 10.MAR.2014 21:21:06

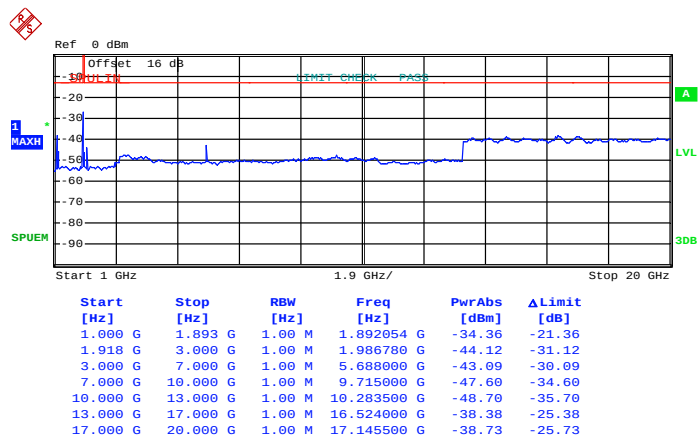


Band :	LTE Band 25	Channel :	CH26590 (High)
Band Width :	20MHz		

QPSK (RB Size 1, RB Offset 0)

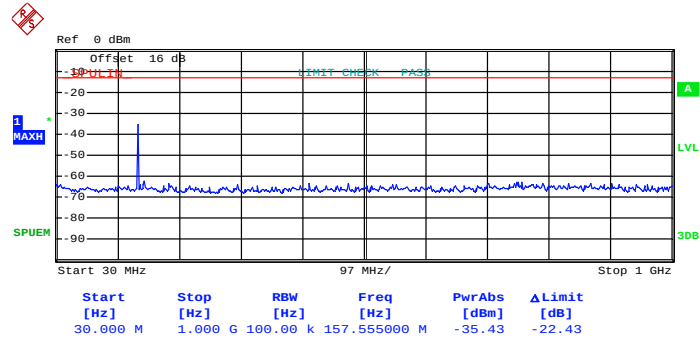


Date: 10.MAR.2014 21:52:29

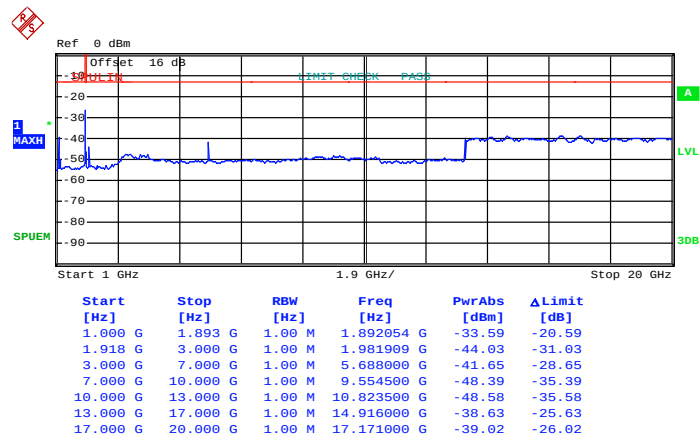


Date: 10.MAR.2014 21:52:53

16QAM (RB Size 1, RB Offset 0)



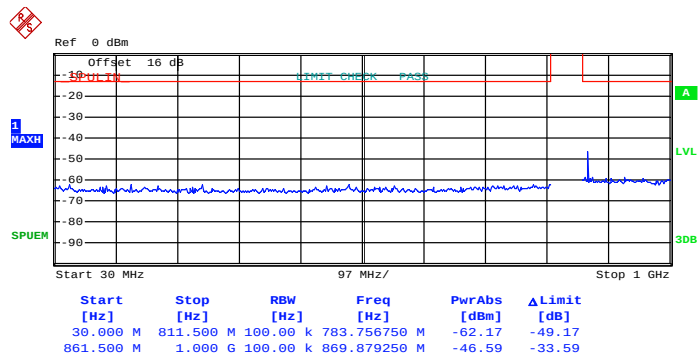
Date: 10.MAR.2014 21:52:15



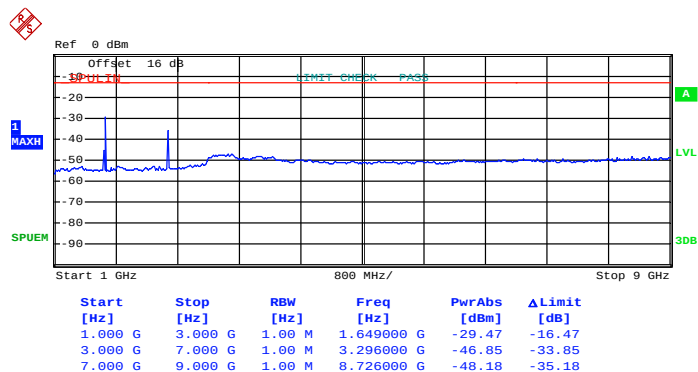
Date: 10.MAR.2014 21:53:19

Band :	LTE Band 26	Channel :	CH26797 (Low)
Band Width :	1.4MHz		

QPSK (RB Size 1, RB Offset 0)

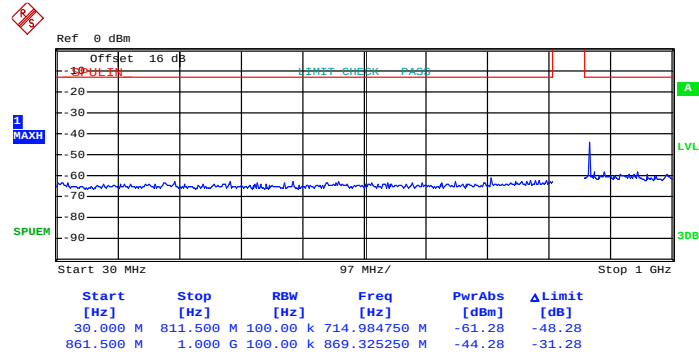


Date: 10.MAR.2014 16:53:21

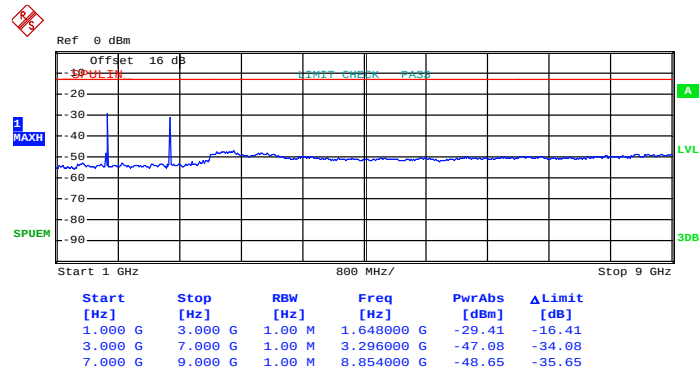


Date: 10.MAR.2014 15:55:32

16QAM (RB Size 1, RB Offset 0)

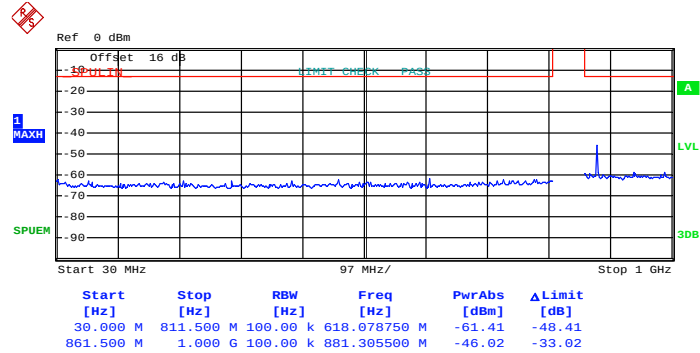


Date: 10.MAR.2014 16:53:36

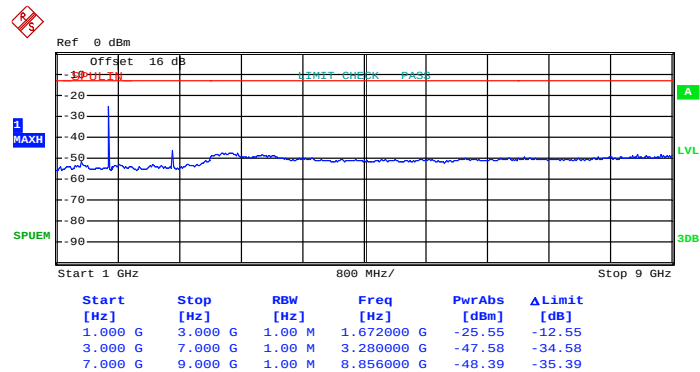


Date: 10.MAR.2014 15:55:10

Band :	LTE Band 26	Channel :	CH26915 (Middle)
Band Width :	1.4MHz		

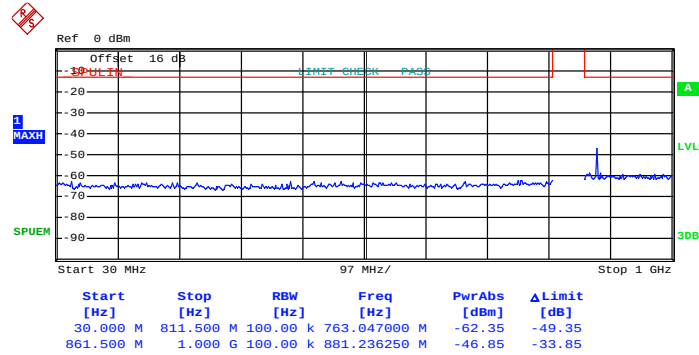
QPSK (RB Size 1, RB Offset 0)


Date: 10.MAR.2014 16:57:28

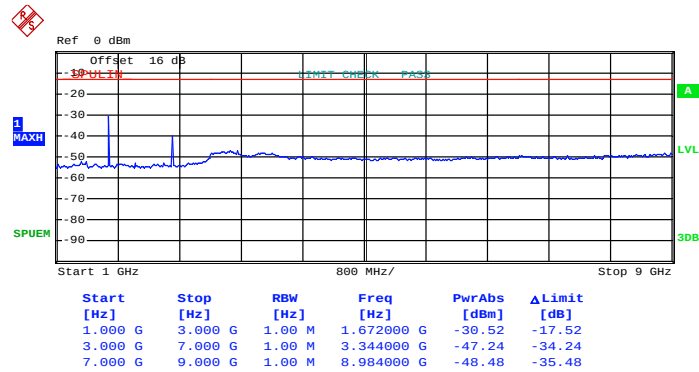


Date: 10.MAR.2014 16:00:09

16QAM (RB Size 1, RB Offset 0)



Date: 10.MAR.2014 16:57:14

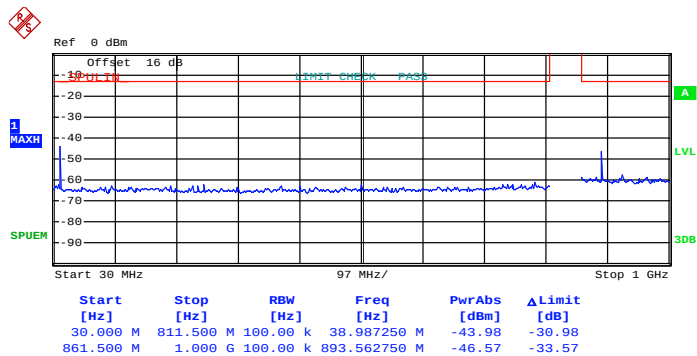


Date: 10.MAR.2014 16:00:33

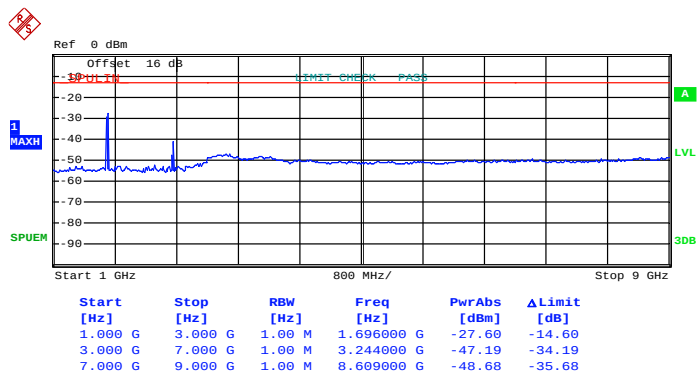


Band :	LTE Band 26	Channel :	CH27033 (High)
Band Width :	1.4MHz		

QPSK (RB Size 1, RB Offset 0)

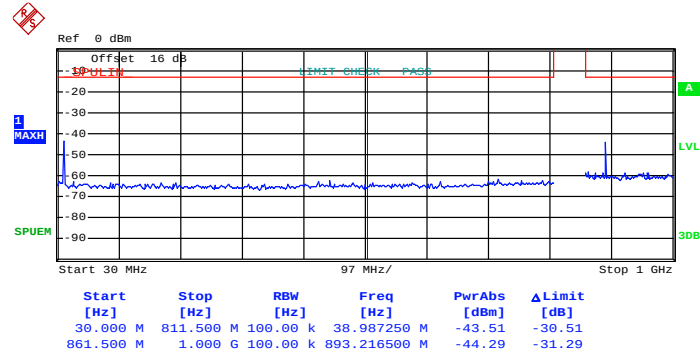


Date: 10.MAR.2014 17:01:17

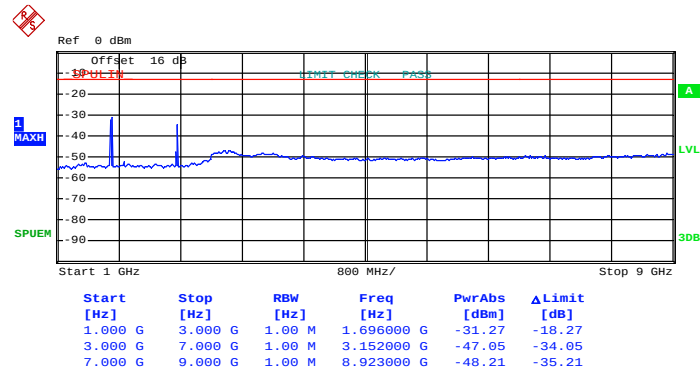


Date: 10.MAR.2014 16:48:57

16QAM (RB Size 1, RB Offset 0)

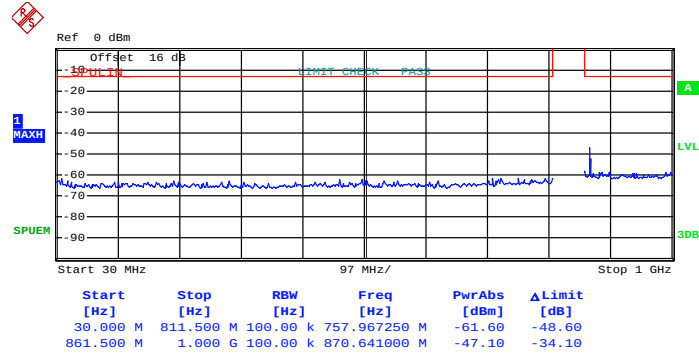


Date: 10.MAR.2014 17:01:32

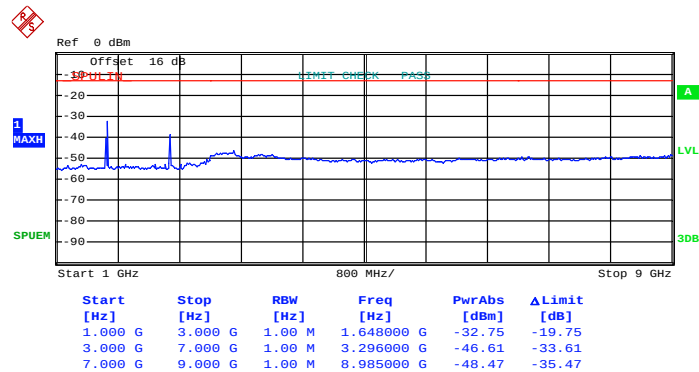


Date: 10.MAR.2014 16:48:42

Band :	LTE Band 26	Channel :	CH26805 (Low)
Band Width :	3MHz		

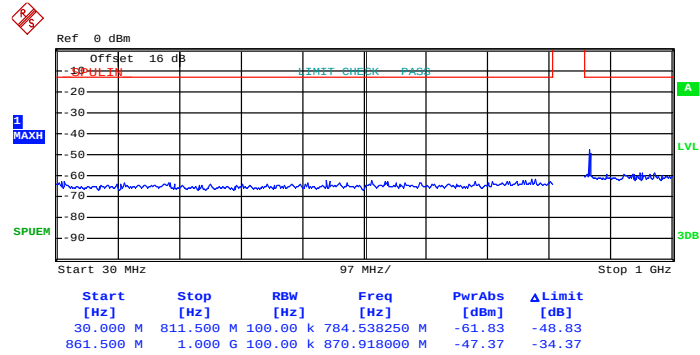
QPSK (RB Size 1, RB Offset 0)


Date: 10.MAR.2014 16:54:16

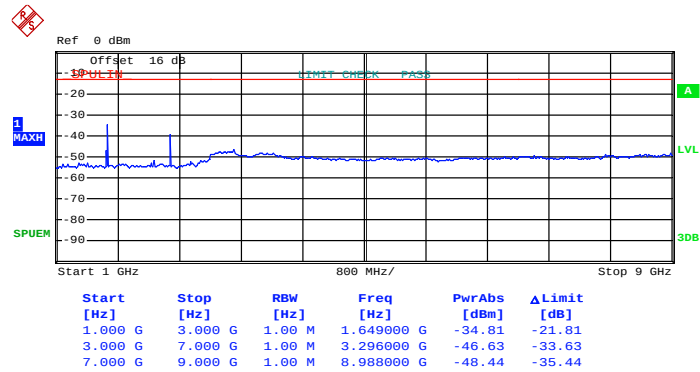


Date: 10.MAR.2014 15:56:30

16QAM (RB Size 1, RB Offset 0)

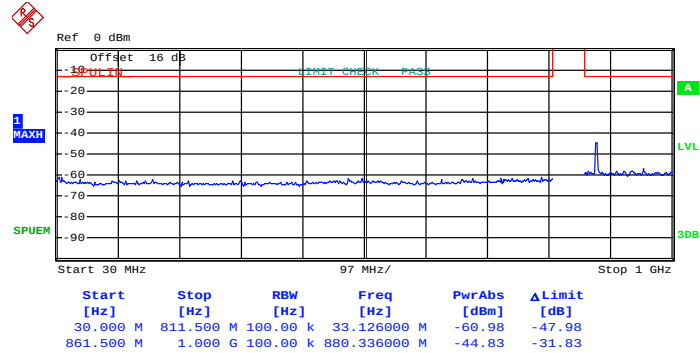


Date: 10.MAR.2014 16:54:03

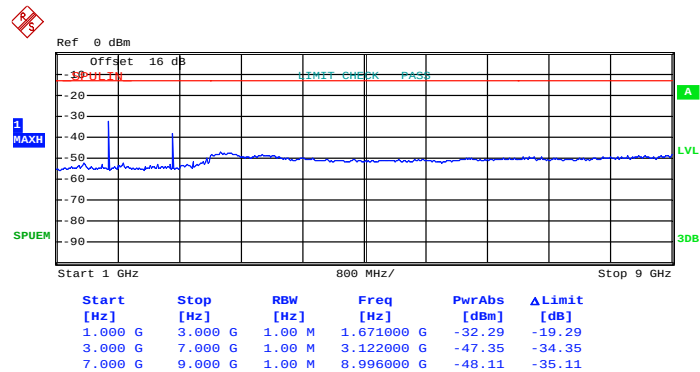


Date: 10.MAR.2014 15:56:47

Band :	LTE Band 26	Channel :	CH26915 (Middle)
Band Width :	3MHz		

QPSK (RB Size 1, RB Offset 0)


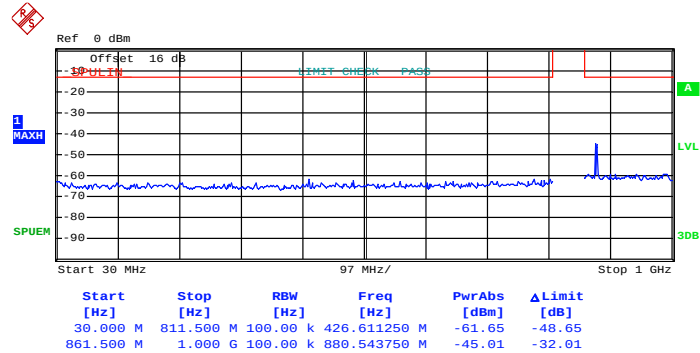
Date: 10.MAR.2014 16:58:25



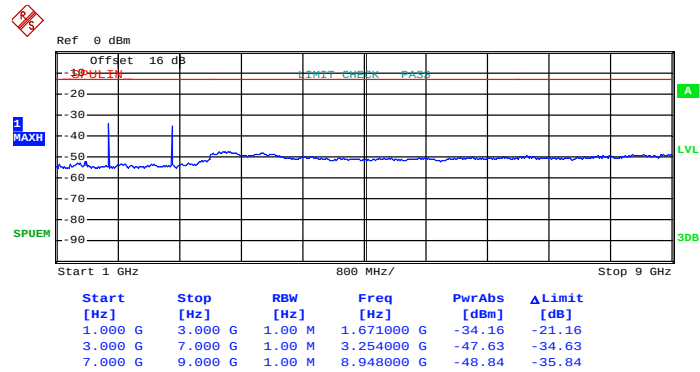
Date: 10.MAR.2014 16:01:16



16QAM (RB Size 1, RB Offset 0)



Date: 10.MAR.2014 16:58:39

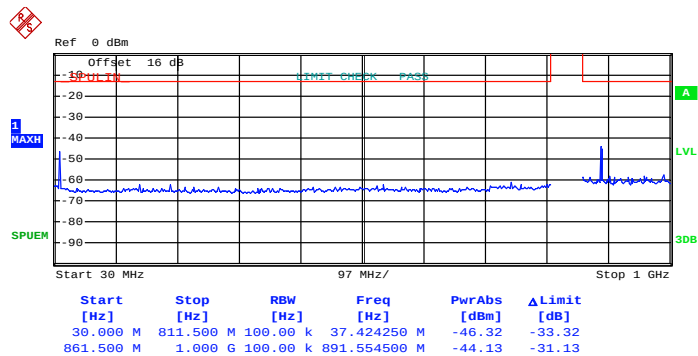


Date: 10.MAR.2014 16:01:01

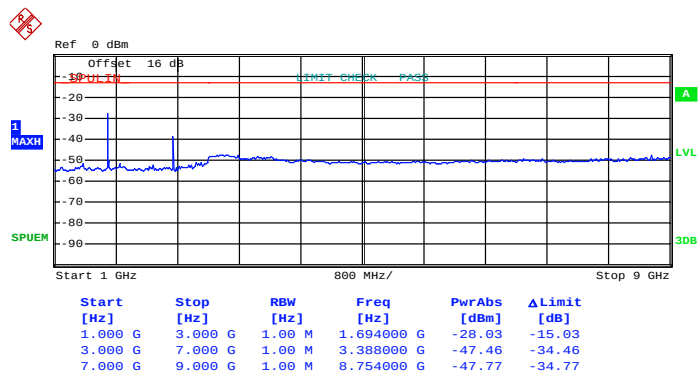


Band :	LTE Band 26	Channel :	CH27025 (High)
Band Width :	3MHz		

QPSK (RB Size 1, RB Offset 0)

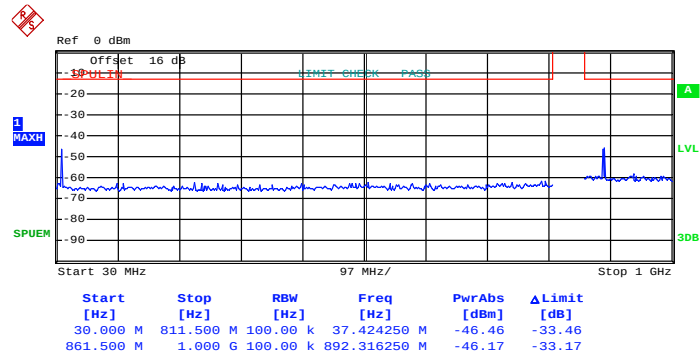


Date: 10.MAR.2014 17:02:24

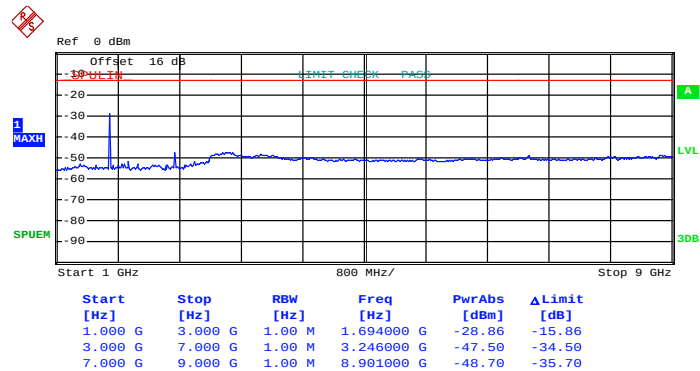


Date: 10.MAR.2014 16:49:29

16QAM (RB Size 1, RB Offset 0)



Date: 10.MAR.2014 17:02:09

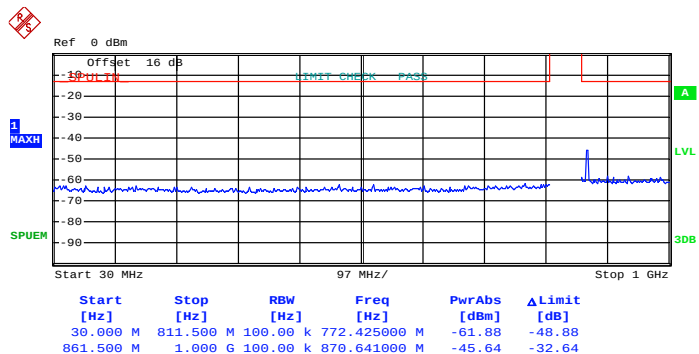


Date: 10.MAR.2014 16:49:45

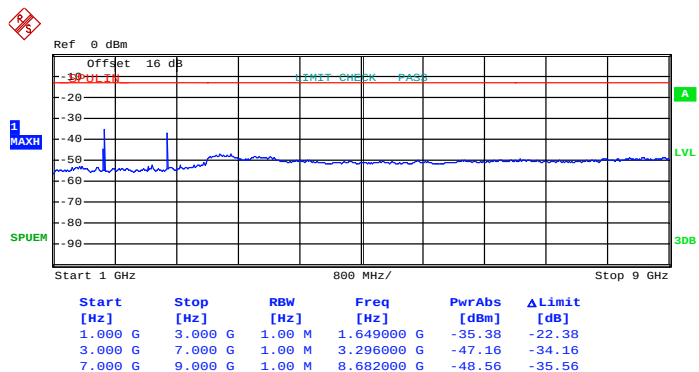


Band :	LTE Band 26	Channel :	CH26815 (Low)
Band Width :	5MHz		

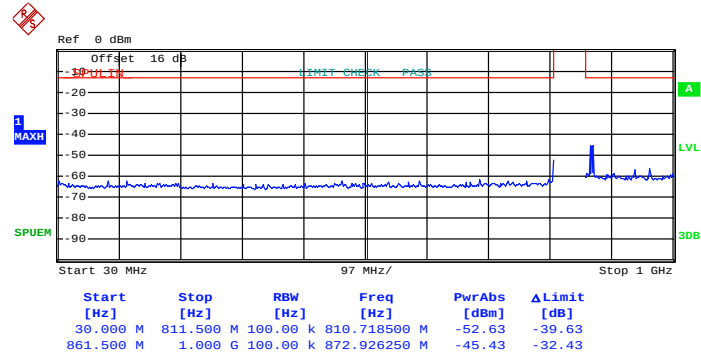
QPSK (RB Size 1, RB Offset 0)



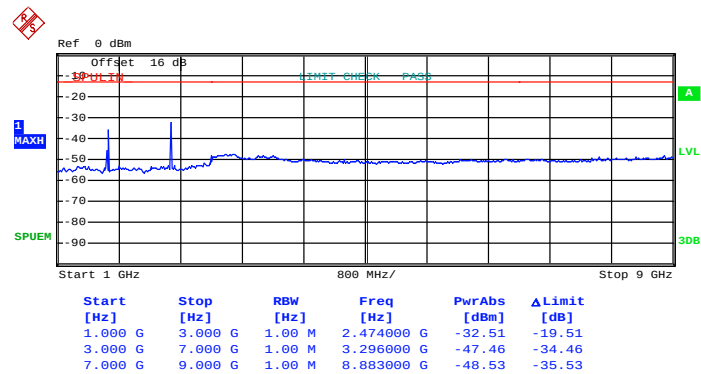
Date: 10.MAR.2014 16:54:52



Date: 10.MAR.2014 15:57:39

16QAM (RB Size 1, RB Offset 0)


Date: 10.MAR.2014 16:55:07

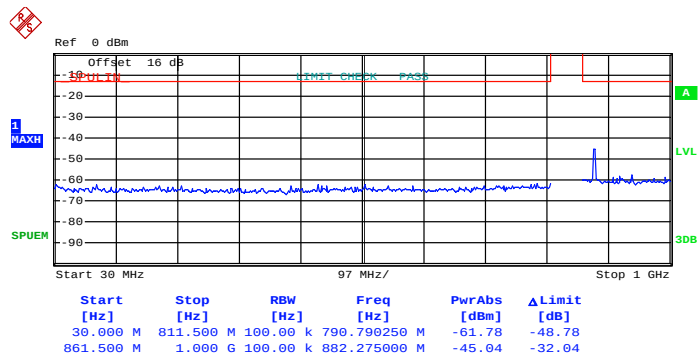


Date: 10.MAR.2014 15:57:24

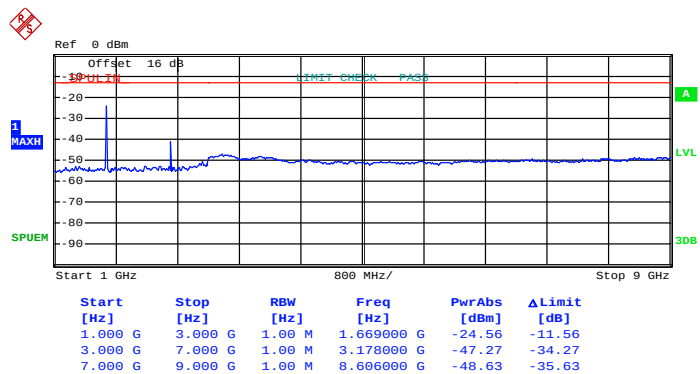


Band :	LTE Band 26	Channel :	CH26915 (Middle)
Band Width :	5MHz		

QPSK (RB Size 1, RB Offset 0)

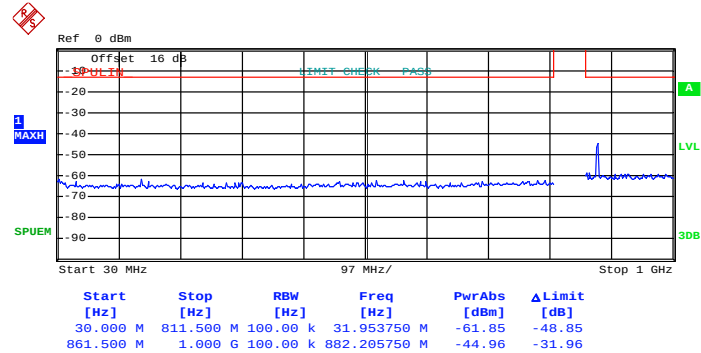


Date: 10.MAR.2014 16:59:18

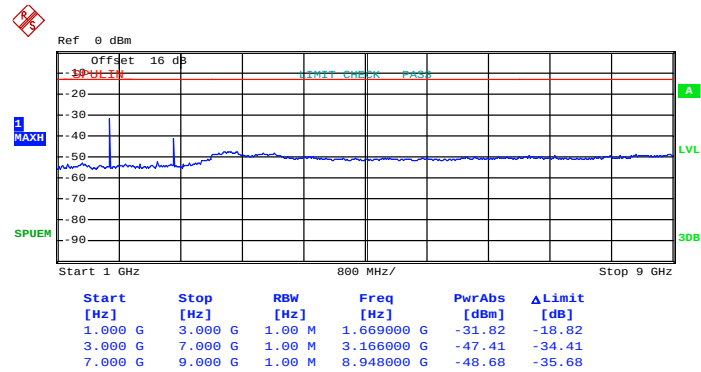


Date: 10.MAR.2014 16:44:25

16QAM (RB Size 1, RB Offset 0)

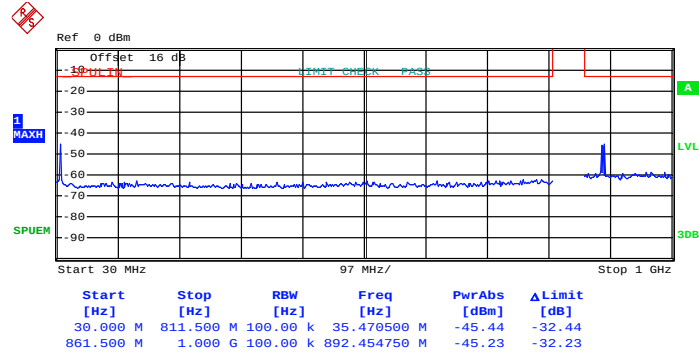


Date: 10.MAR.2014 16:59:04

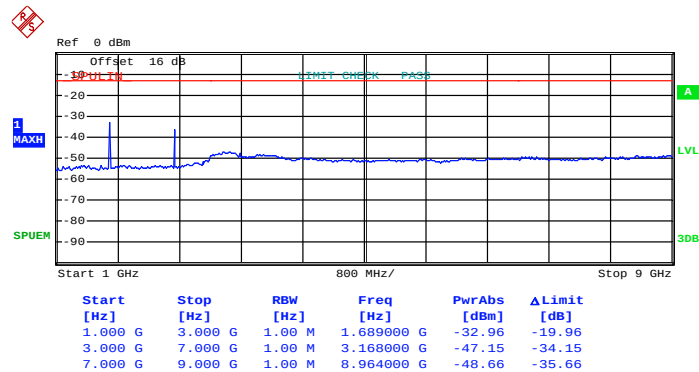


Date: 10.MAR.2014 16:44:43

Band :	LTE Band 26	Channel :	CH27015 (High)
Band Width :	5MHz		

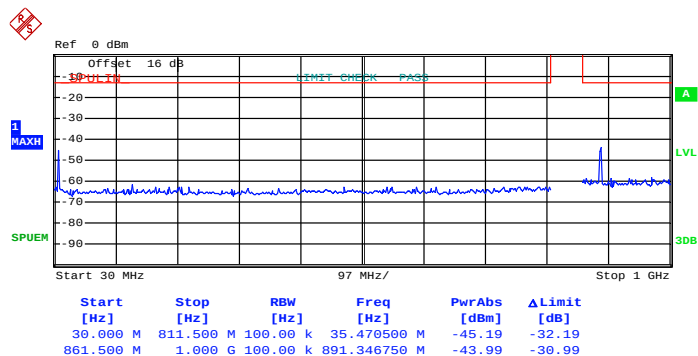
QPSK (RB Size 1, RB Offset 0)


Date: 10.MAR.2014 17:02:55

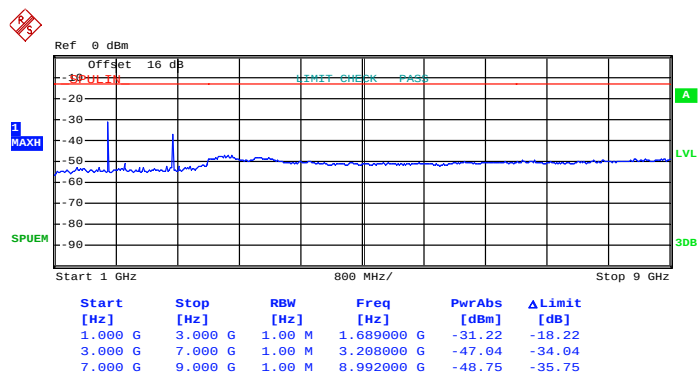


Date: 10.MAR.2014 16:50:45

16QAM (RB Size 1, RB Offset 0)



Date: 10.MAR.2014 17:03:08

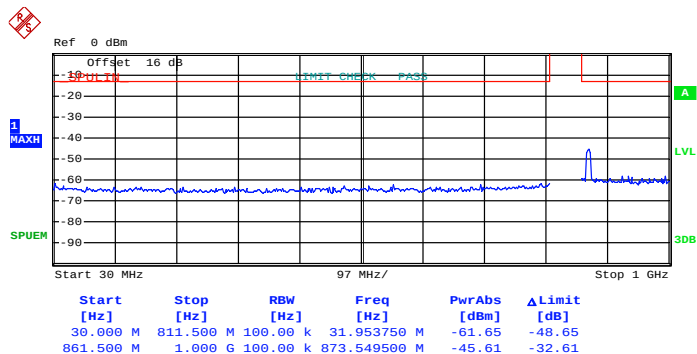


Date: 10.MAR.2014 16:50:29

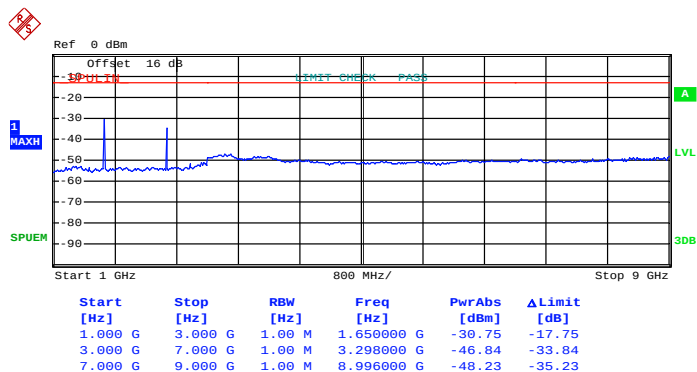


Band :	LTE Band 26	Channel :	CH26840 (Low)
Band Width :	10MHz		

QPSK (RB Size 1, RB Offset 0)

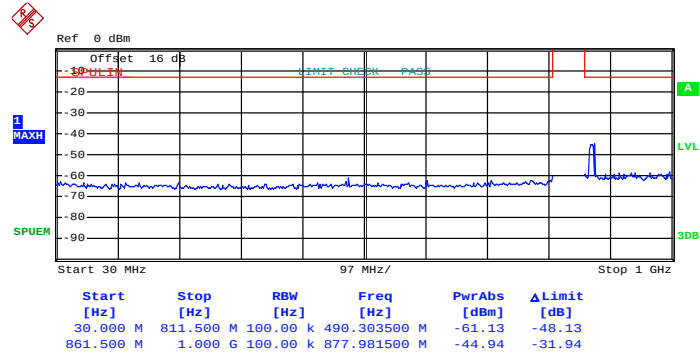


Date: 10.MAR.2014 16:55:52

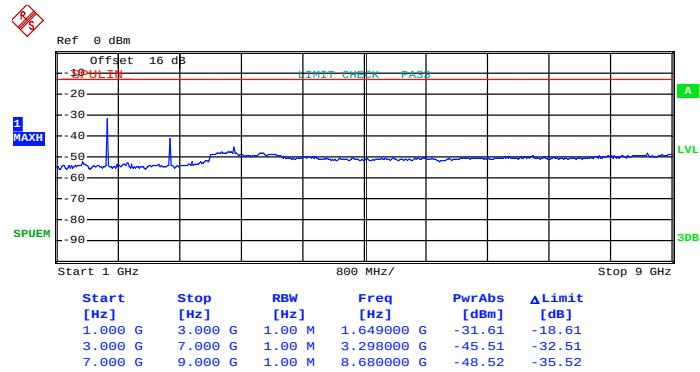


Date: 10.MAR.2014 15:58:13

16QAM (RB Size 1, RB Offset 0)



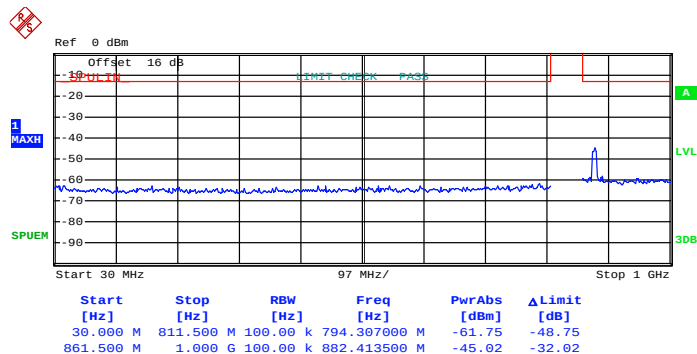
Date: 10.MAR.2014 16:55:38



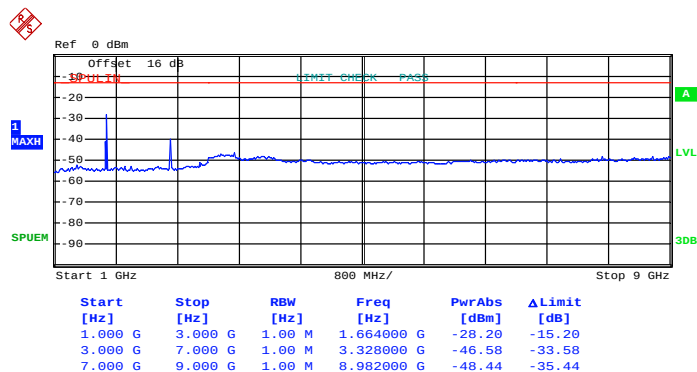
Date: 10.MAR.2014 15:58:33

Band :	LTE Band 26	Channel :	CH26915 (Middle)
Band Width :	10MHz		

QPSK (RB Size 1, RB Offset 0)

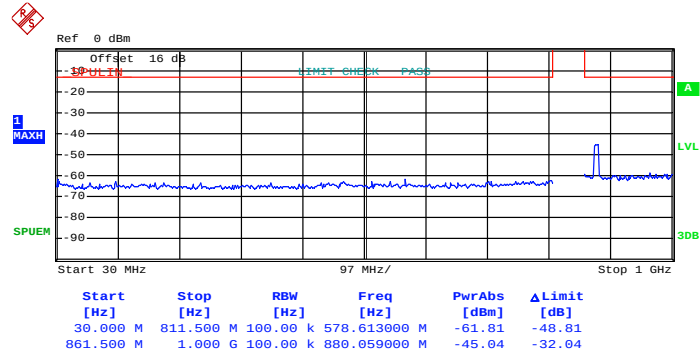


Date: 10.MAR.2014 16:59:41

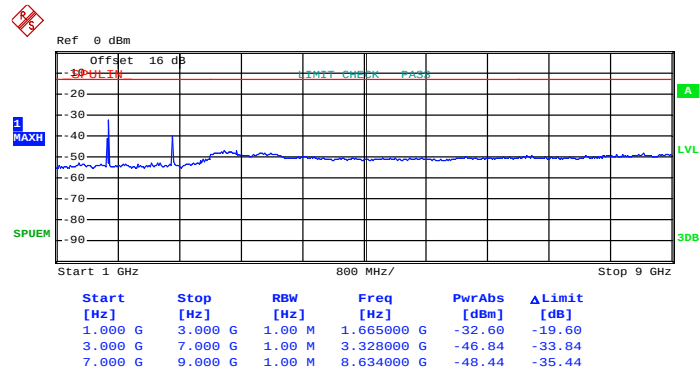


Date: 10.MAR.2014 16:45:46

16QAM (RB Size 1, RB Offset 0)

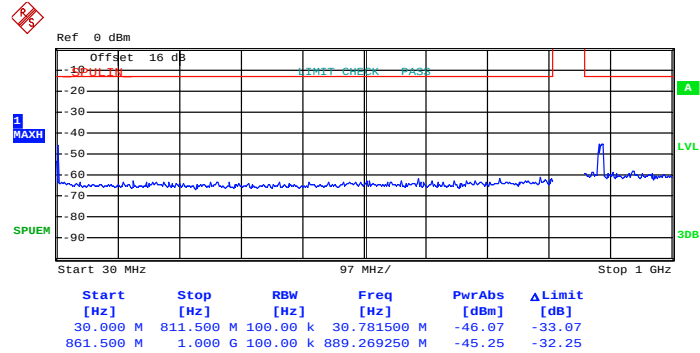


Date: 10.MAR.2014 16:59:55

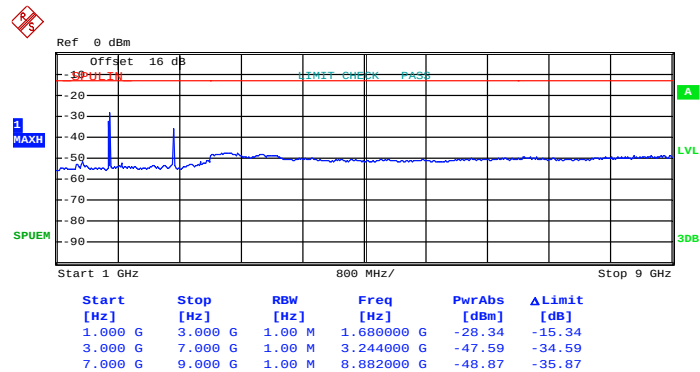


Date: 10.MAR.2014 16:45:26

Band :	LTE Band 26	Channel :	CH26990 (High)
Band Width :	10MHz		

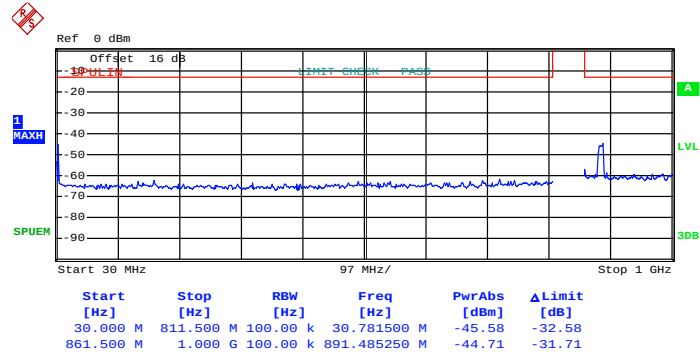
QPSK (RB Size 1, RB Offset 0)


Date: 10.MAR.2014 17:03:53

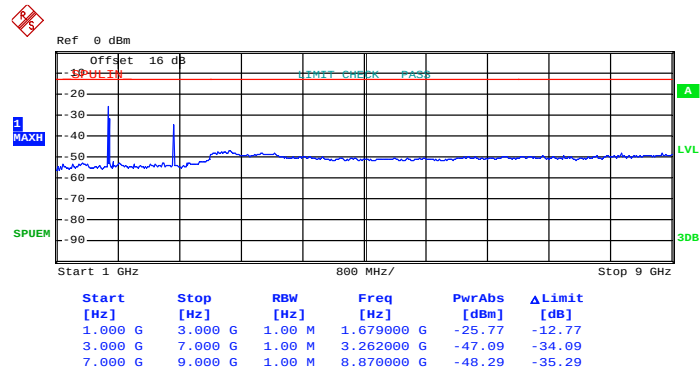


Date: 10.MAR.2014 16:51:18

16QAM (RB Size 1, RB Offset 0)



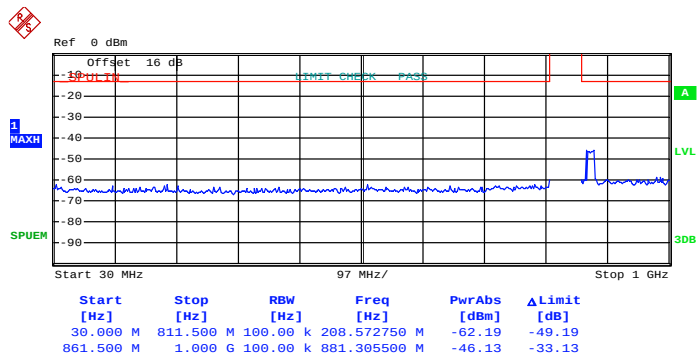
Date: 10.MAR.2014 17:03:39



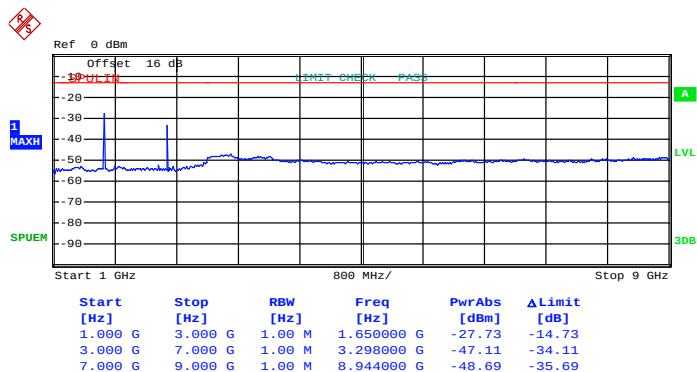
Date: 10.MAR.2014 16:51:35

Band :	LTE Band 26	Channel :	CH26865 (Low)
Band Width :	15MHz		

QPSK (RB Size 1, RB Offset 0)



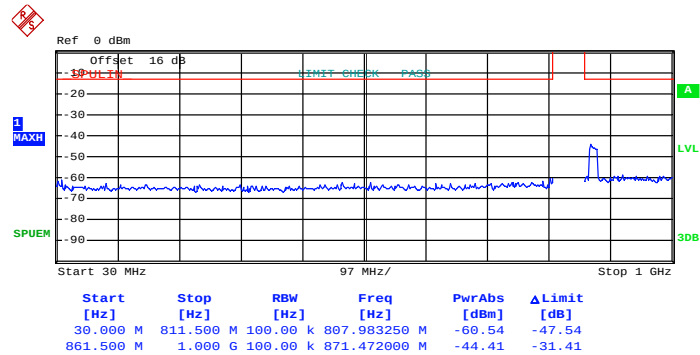
Date: 10.MAR.2014 16:56:21



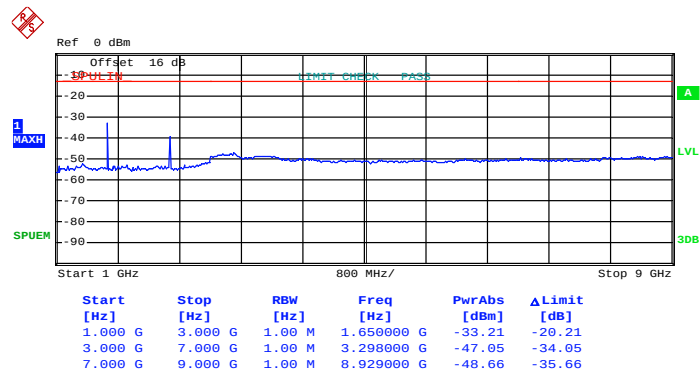
Date: 10.MAR.2014 15:59:28



16QAM (RB Size 1, RB Offset 0)

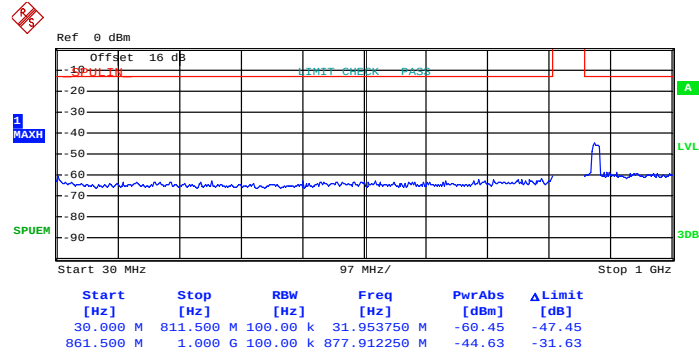


Date: 10.MAR.2014 16:56:35

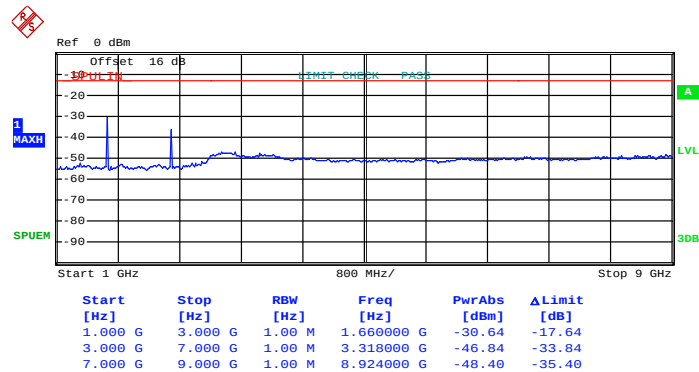


Date: 10.MAR.2014 15:59:07

Band :	LTE Band 26	Channel :	CH26915 (Middle)
Band Width :	15MHz		

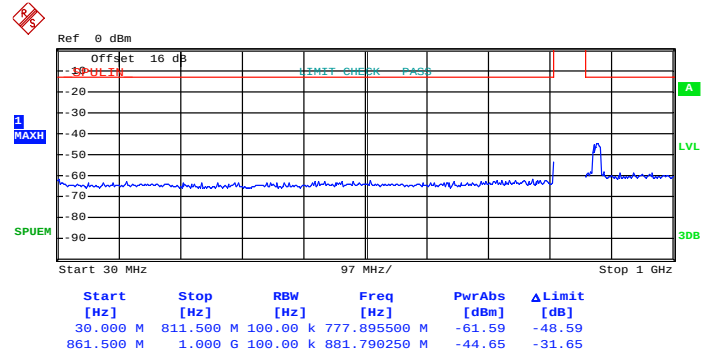
QPSK (RB Size 1, RB Offset 0)


Date: 10.MAR.2014 17:00:39

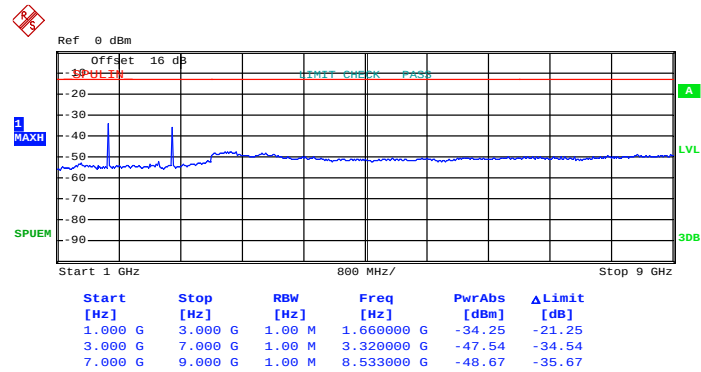


Date: 10.MAR.2014 16:46:38

16QAM (RB Size 1, RB Offset 0)



Date: 10.MAR.2014 17:00:22

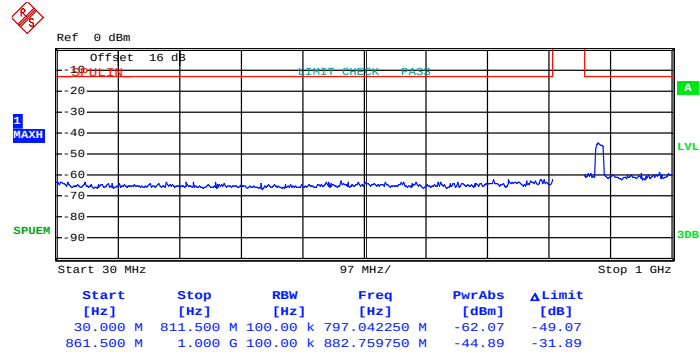


Date: 10.MAR.2014 16:46:56

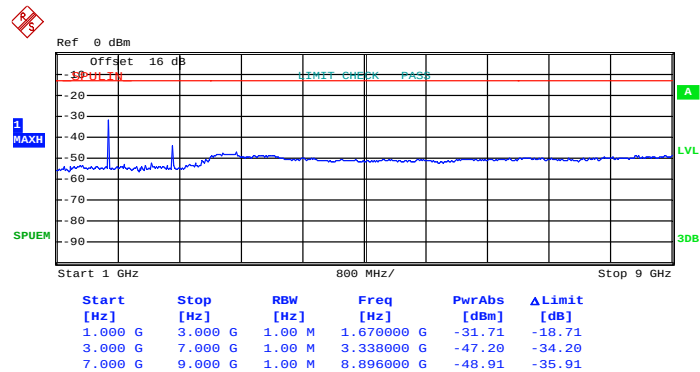


Band :	LTE Band 26	Channel :	CH26965 (High)
Band Width :	15MHz		

QPSK (RB Size 1, RB Offset 0)

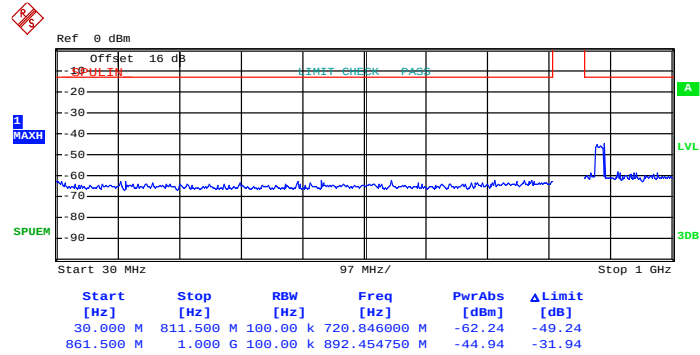


Date: 10.MAR.2014 17:04:21

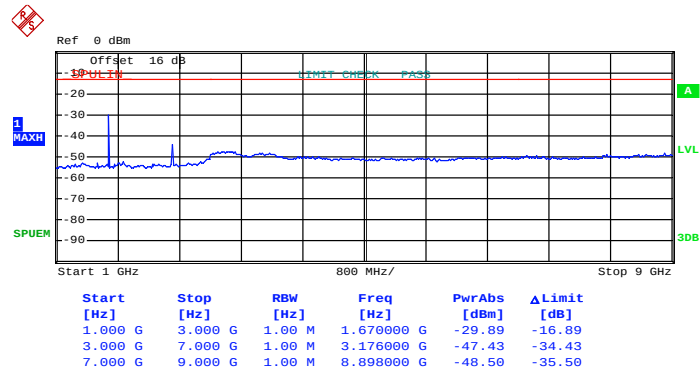


Date: 10.MAR.2014 16:52:24

16QAM (RB Size 1, RB Offset 0)



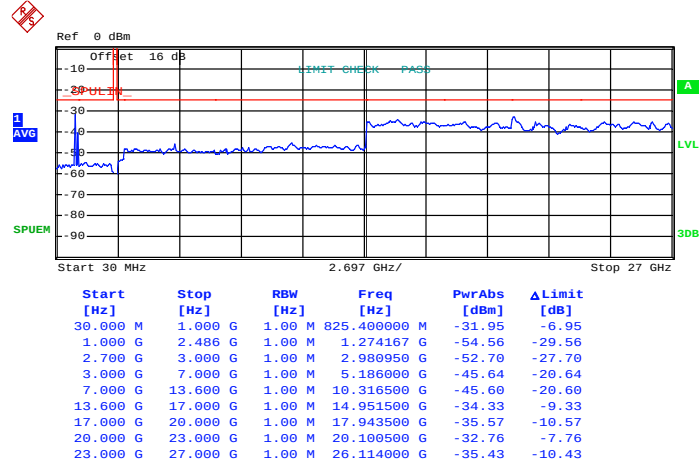
Date: 10.MAR.2014 17:04:35



Date: 10.MAR.2014 16:52:10

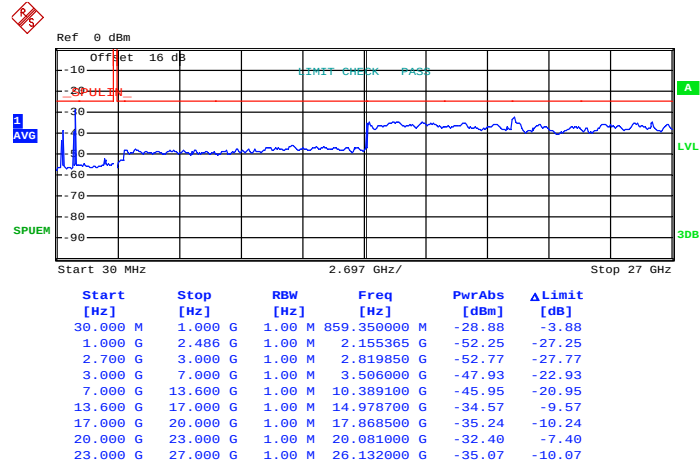
Band :	LTE Band 41	Channel :	CH39675 (Low)
Band Width :	5MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 9.APR.2014 14:11:22

16QAM (RB Size 1, RB Offset 0)

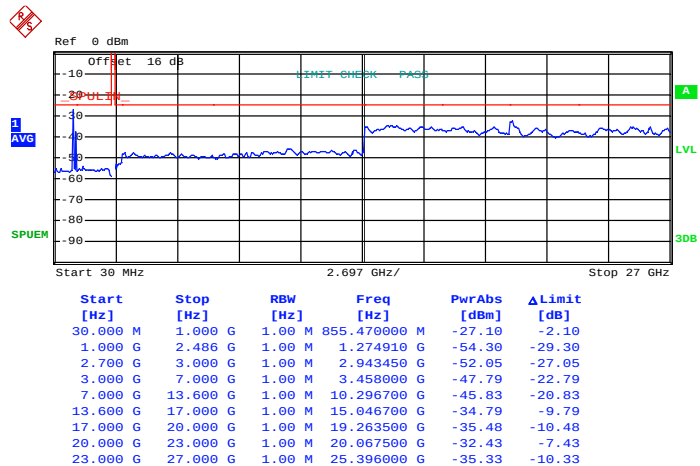


Date: 9.APR.2014 14:24:20



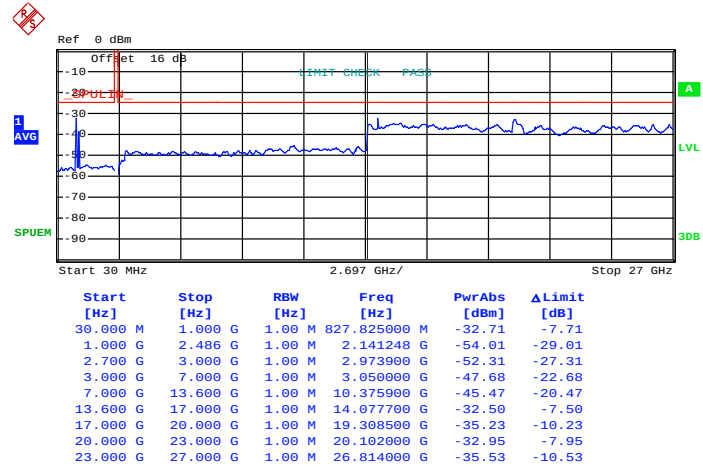
Band :	LTE Band 41	Channel :	CH40620 (Middle)
Band Width :	5MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 9.APR.2014 14:11:36

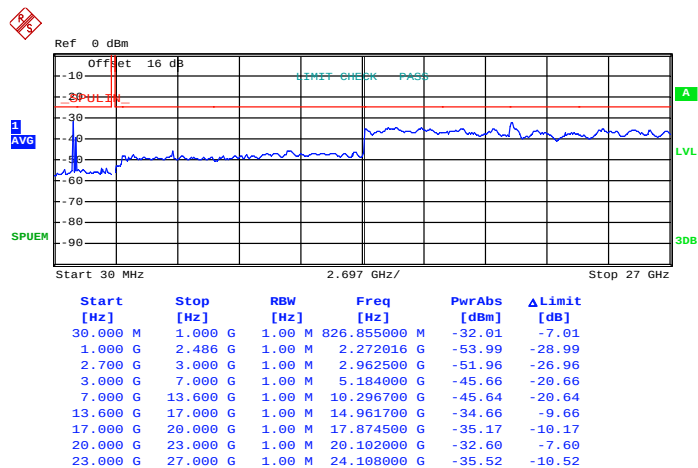
16QAM (RB Size 1, RB Offset 0)



Date: 9.APR.2014 14:11:47

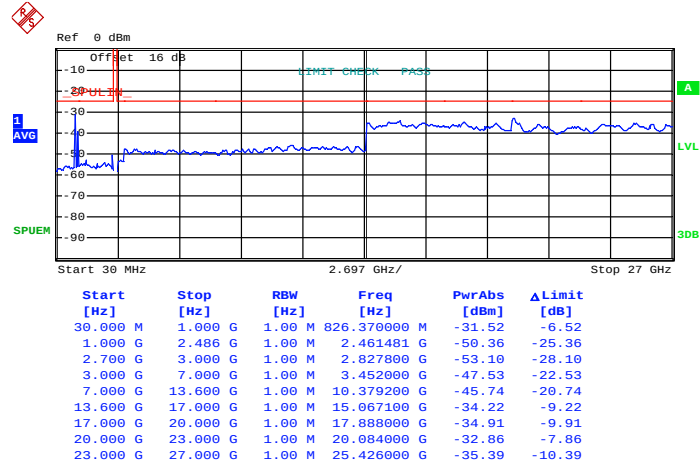
Band :	LTE Band 41	Channel :	CH41565 (High)
Band Width :	5MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 9.APR.2014 14:12:15

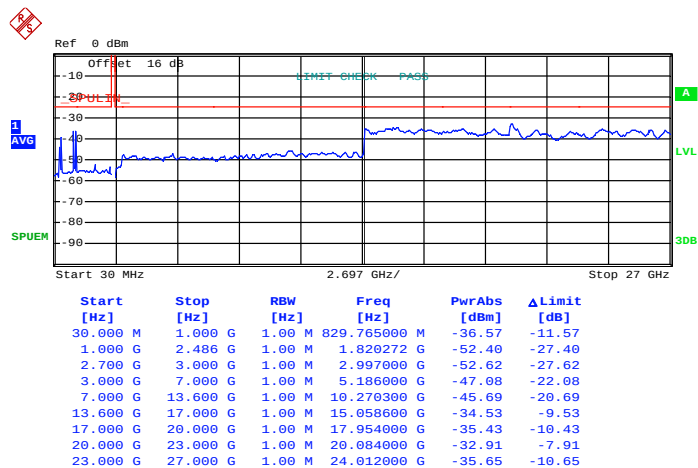
16QAM (RB Size 1, RB Offset 0)



Date: 9.APR.2014 14:12:03

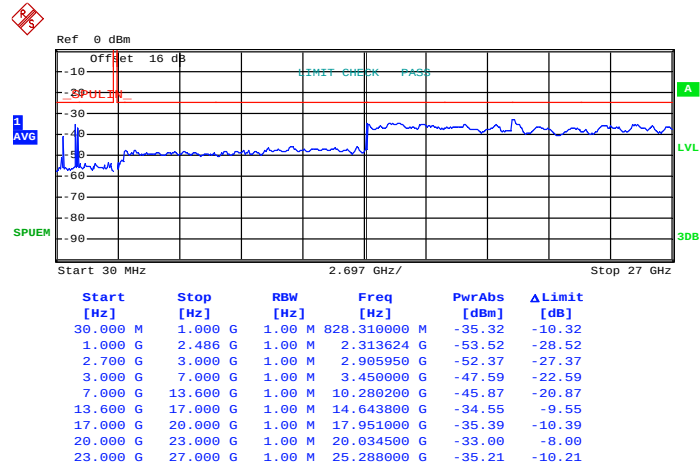
Band :	LTE Band 41	Channel :	CH39700 (Low)
Band Width :	10MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 9.APR.2014 14:13:32

16QAM (RB Size 1, RB Offset 0)

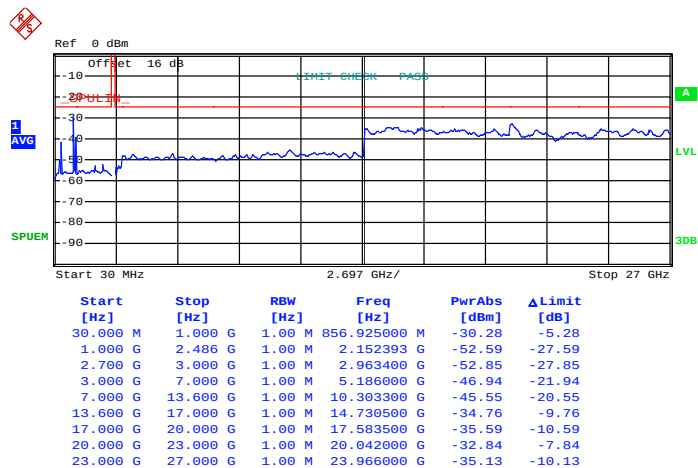


Date: 9.APR.2014 14:13:47



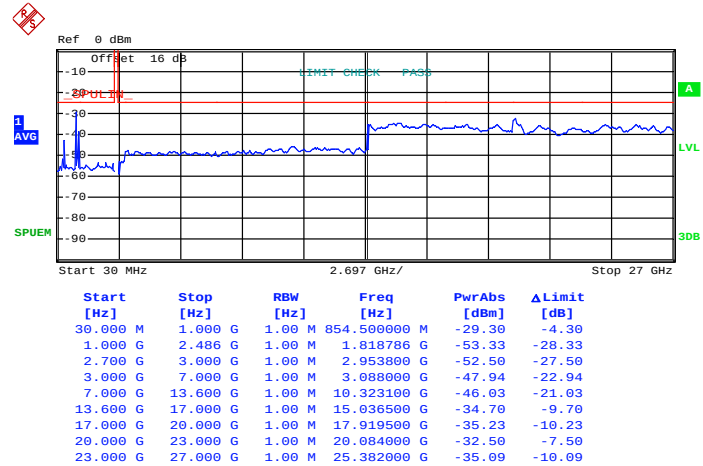
Band :	LTE Band 41	Channel :	CH40620 (Middle)
Band Width :	10MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 9.APR.2014 14:13:17

16QAM (RB Size 1, RB Offset 0)

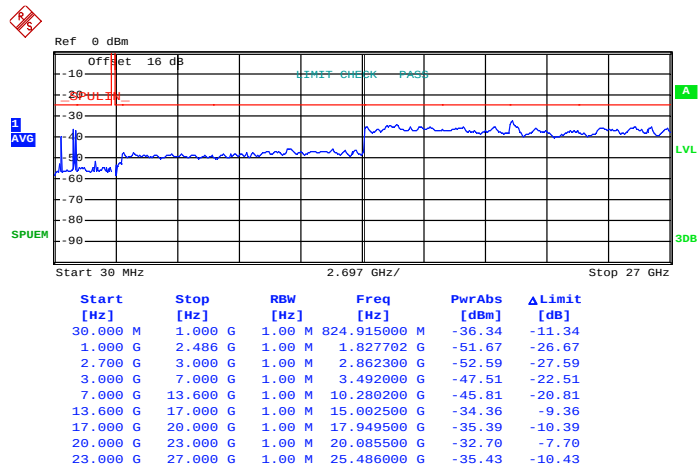


Date: 9.APR.2014 14:13:06



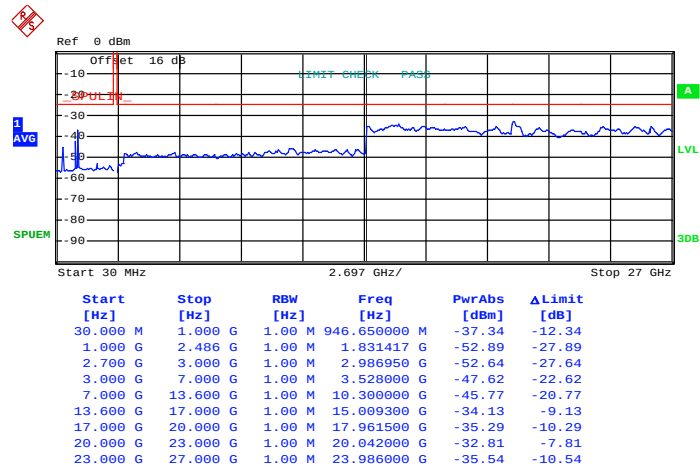
Band :	LTE Band 41	Channel :	CH41540 (High)
Band Width :	10MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 9.APR.2014 14:12:35

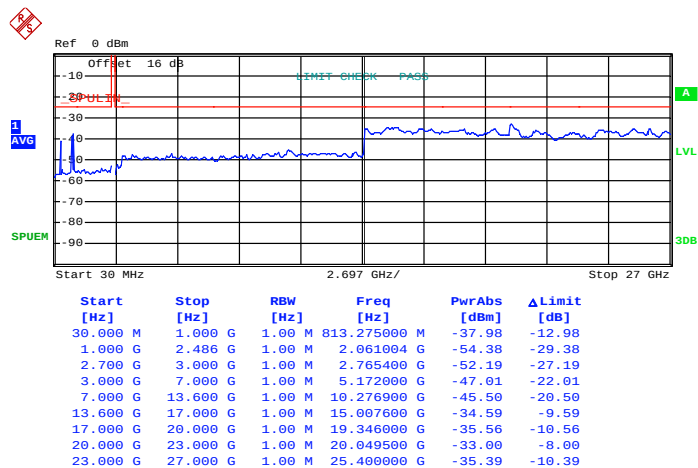
16QAM (RB Size 1, RB Offset 0)



Date: 9.APR.2014 14:12:51

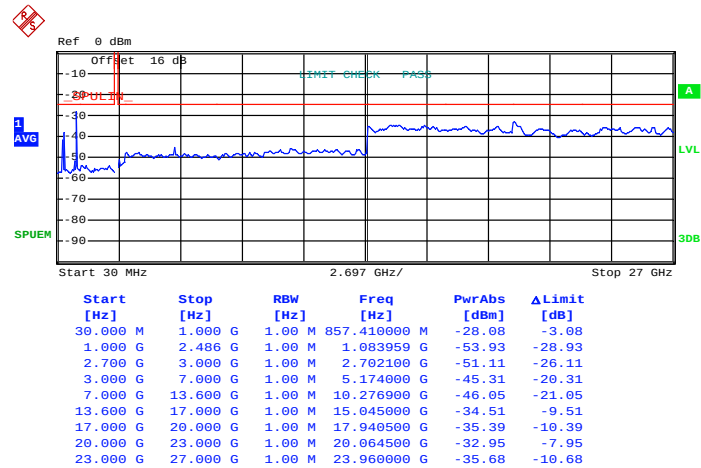
Band :	LTE Band 41	Channel :	CH39725 (Low)
Band Width :	15MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 9.APR.2014 14:22:08

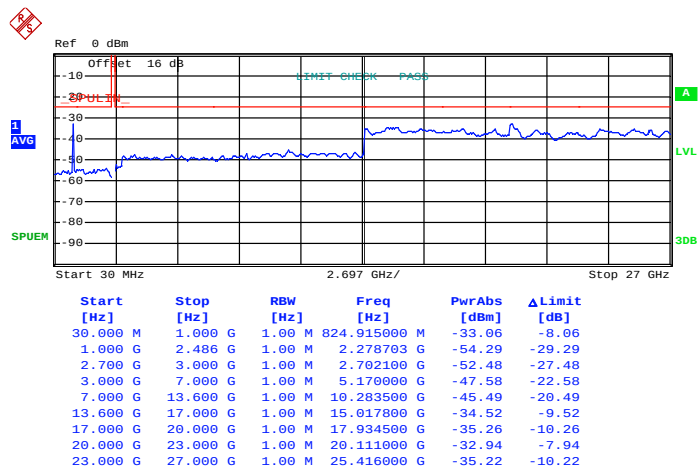
16QAM (RB Size 1, RB Offset 0)



Date: 9.APR.2014 14:21:59

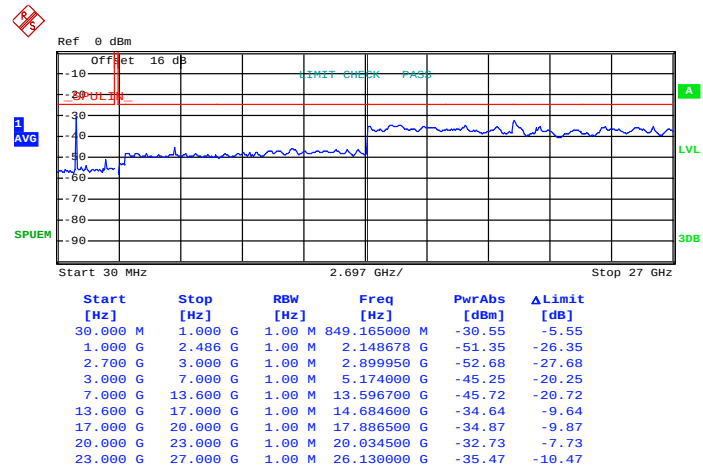
Band :	LTE Band 41	Channel :	CH40620 (Middle)
Band Width :	15MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 9.APR.2014 14:21:30

16QAM (RB Size 1, RB Offset 0)

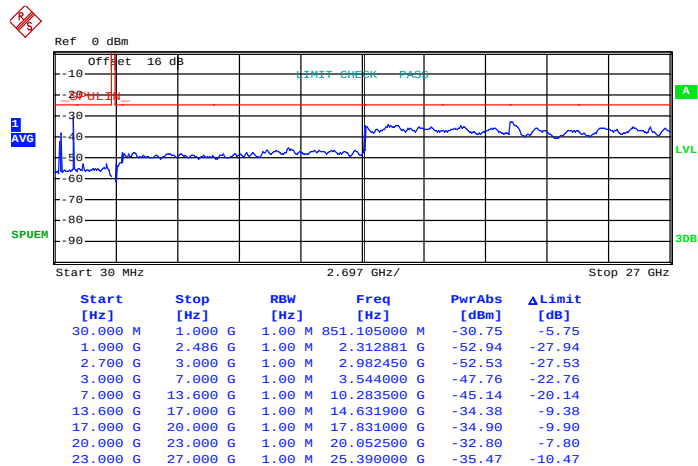


Date: 9.APR.2014 14:21:44



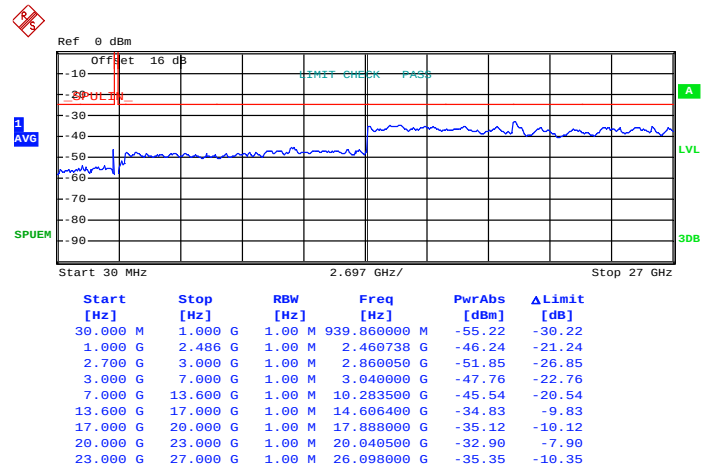
Band :	LTE Band 41	Channel :	CH41515 (High)
Band Width :	15MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 9.APR.2014 14:21:15

16QAM (RB Size 1, RB Offset 0)

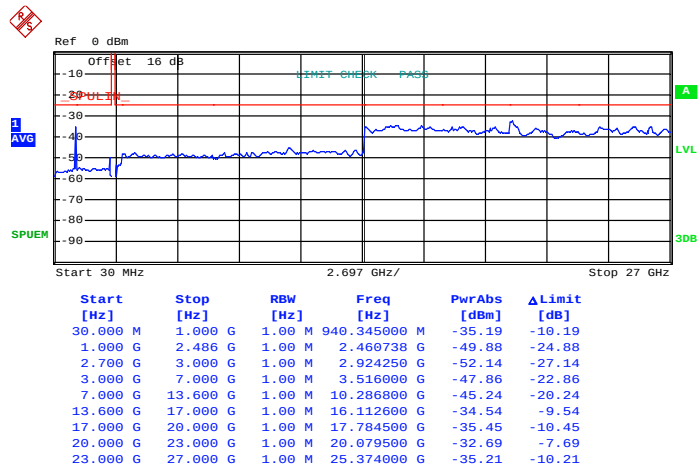


Date: 9.APR.2014 14:18:42

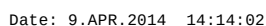


Band :	LTE Band 41	Channel :	CH39750 (Low)
Band Width :	20MHz		

QPSK (RB Size 1, RB Offset 0)

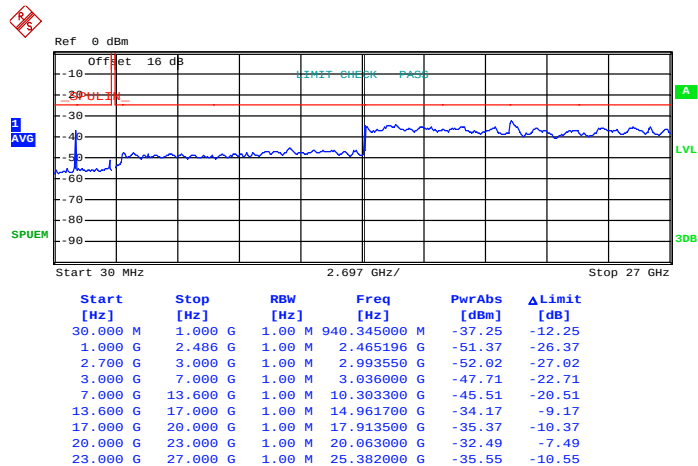


Date: 9.APR.2014 14:14:16



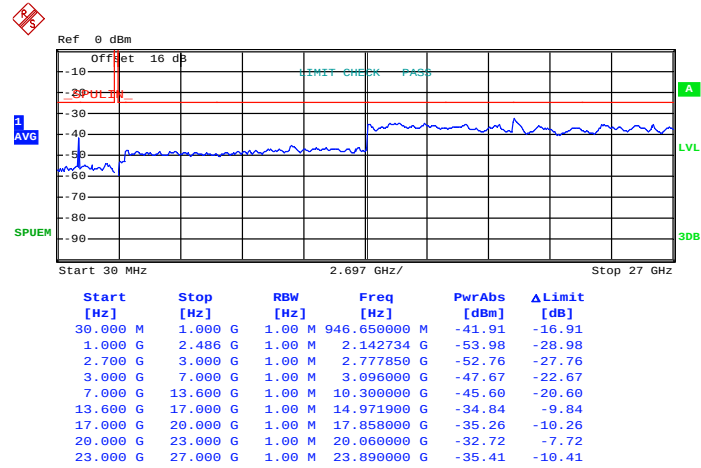
Band :	LTE Band 41	Channel :	CH40620 (Middle)
Band Width :	20MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 9.APR.2014 14:14:33

16QAM (RB Size 1, RB Offset 0)

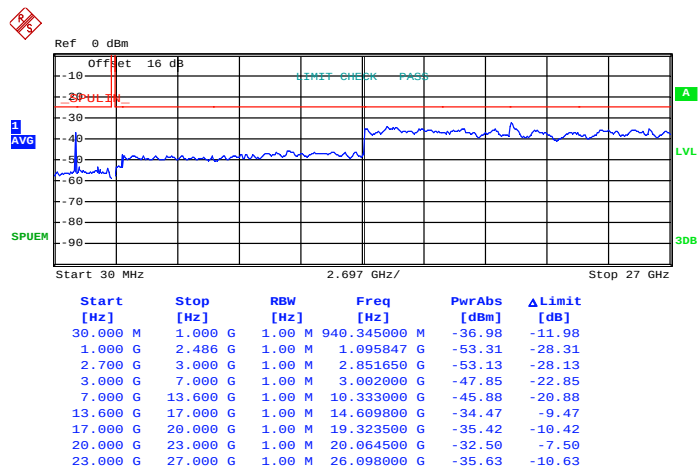


Date: 9.APR.2014 14:14:43



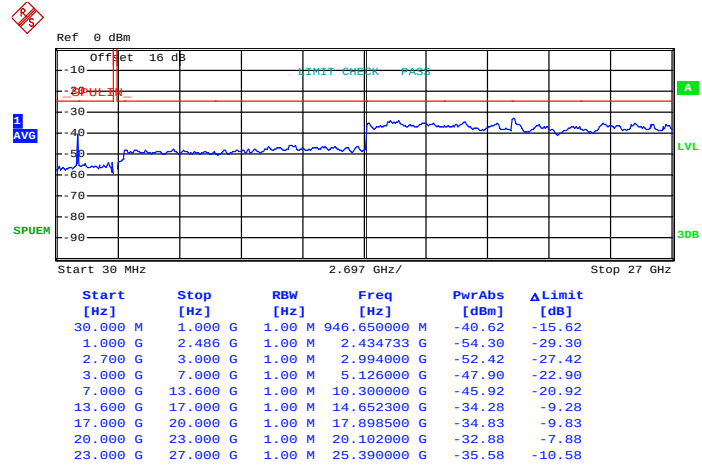
Band :	LTE Band 41	Channel :	CH41490 (High)
Band Width :	20MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 9.APR.2014 14:15:06

16QAM (RB Size 1, RB Offset 0)



Date: 9.APR.2014 14:15:16

3.7 Radiated Spurious Emission Measurement

3.7.1 Description of Radiated Spurious Emission

For Band 25/26

The radiated spurious emission was measured by substitution method according to ANSI / TIA / EIA-603-C-2004. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

For Band 41

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $55 + 10 \log (P)$ dB.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

3.7.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.7.3 Test Procedures

1. The EUT was placed on a rotatable wooden table with 0.8 meter above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)]$ (dB)
 $= [30 + 10\log(P)]$ (dBm) - $[43 + 10\log(P)]$ (dB)
 $= -13$ dBm.

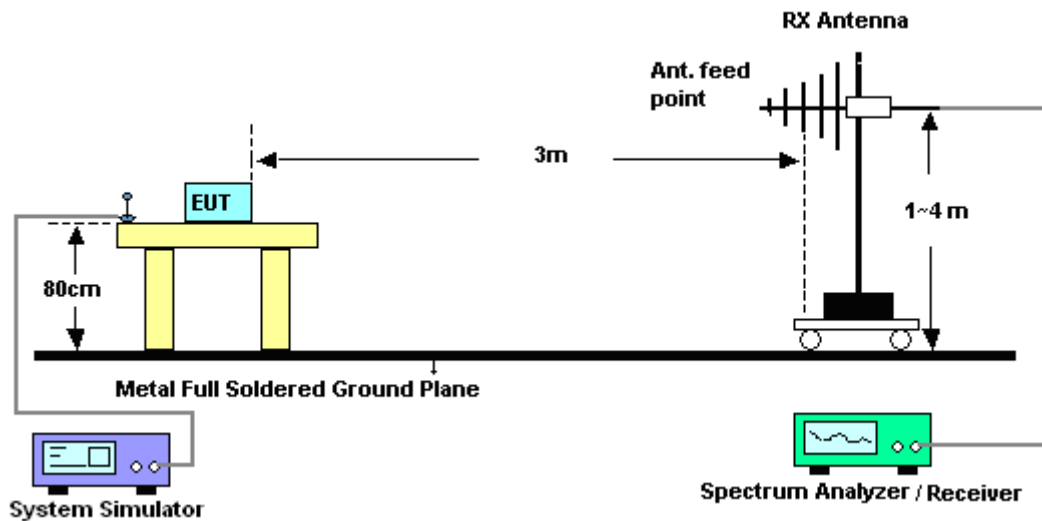
For Band 41

The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P(Watts)

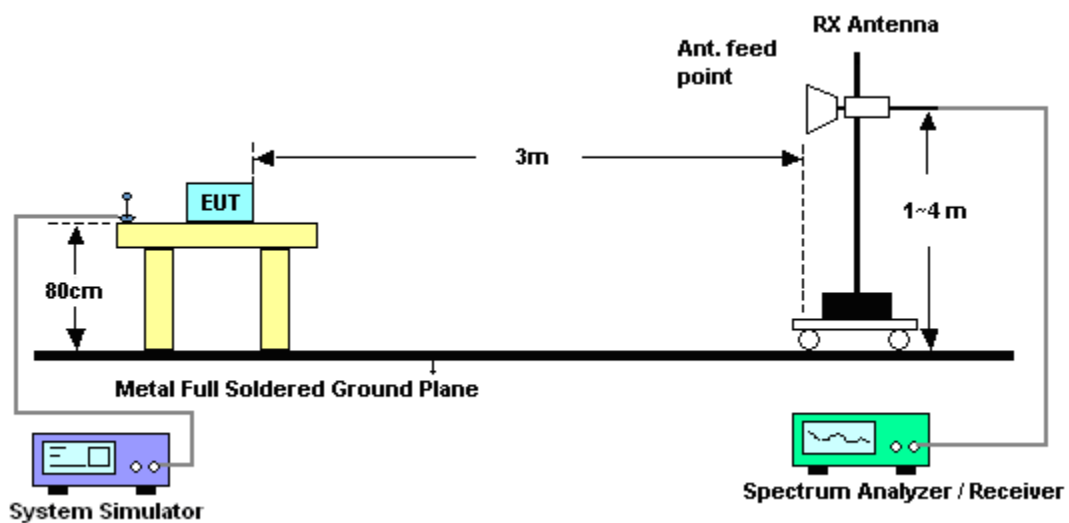
11. EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
12. ERP (dBm) = EIRP - 2.15

3.7.4 Test Setup

For radiated emissions from 30MHz to 1GHz

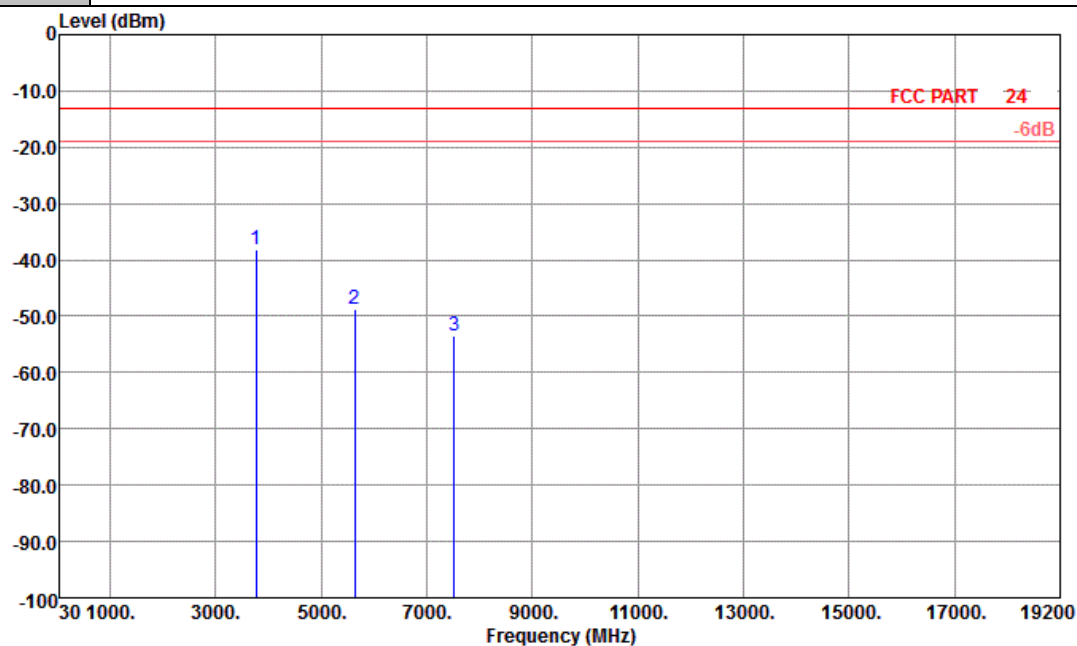


For radiated emissions above 1GHz



3.7.5 Test Result of Field Strength of Spurious Radiated

Band :	LTE Band 25	Temperature :	23~24°C
Test Mode :	1.4MHz QPSK RB Size 1 Offset 0	Relative Humidity :	43~44%
Test Engineer :	Stone Gu	Polarization :	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

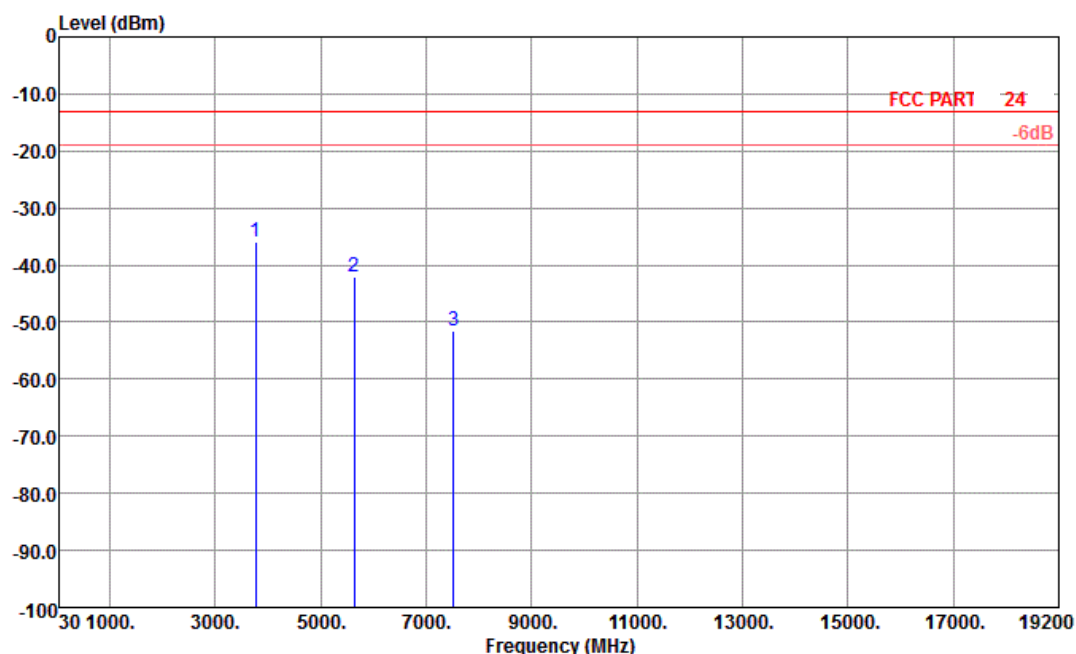


Site : 03CH01-KS

Condition : FCC PART 24 HF_EIRP_FACTOR130726 HORIZONTAL

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3758	-38.28	-13	-25.28	-48.31	-44.66	0.78	7.16	H	Pass
5638	-48.82	-13	-35.82	-60.35	-57.36	1.04	9.58	H	Pass
7520	-53.53	-13	-40.53	-65.07	-63.64	1.35	11.46	H	Pass

Band :	LTE Band 25	Temperature :	23~24°C
Test Mode :	1.4MHz QPSK RB Size 1 Offset 0	Relative Humidity :	43~44%
Test Engineer :	Stone Gu	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

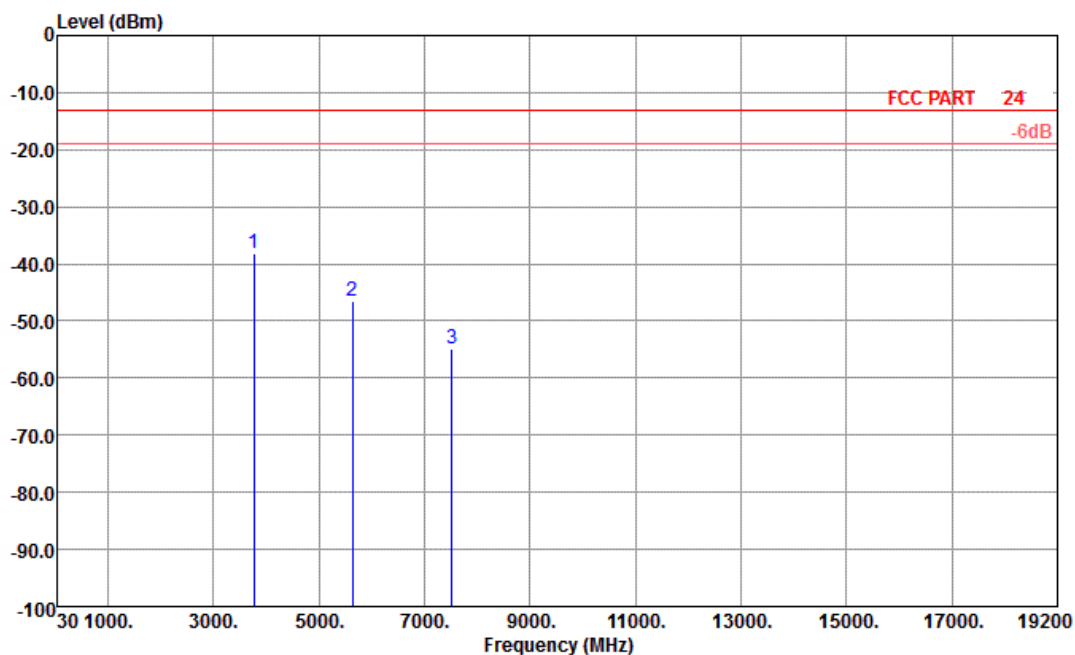


Site : 03CH01-KS

Condition : FCC PART 24 HF_EIRP_FACTOR130726 VERTICAL

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3758	-35.83	-13	-22.83	-47.85	-42.21	0.78	7.16	V	Pass
5638	-42.07	-13	-29.07	-57.55	-50.61	1.04	9.58	V	Pass
7520	-51.59	-13	-38.59	-65.68	-61.70	1.35	11.46	V	Pass

Band :	LTE Band 25	Temperature :	23~24°C
Test Mode :	3MHz QPSK RB Size 1 Offset 0	Relative Humidity :	43~44%
Test Engineer :	Stone Gu	Polarization :	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

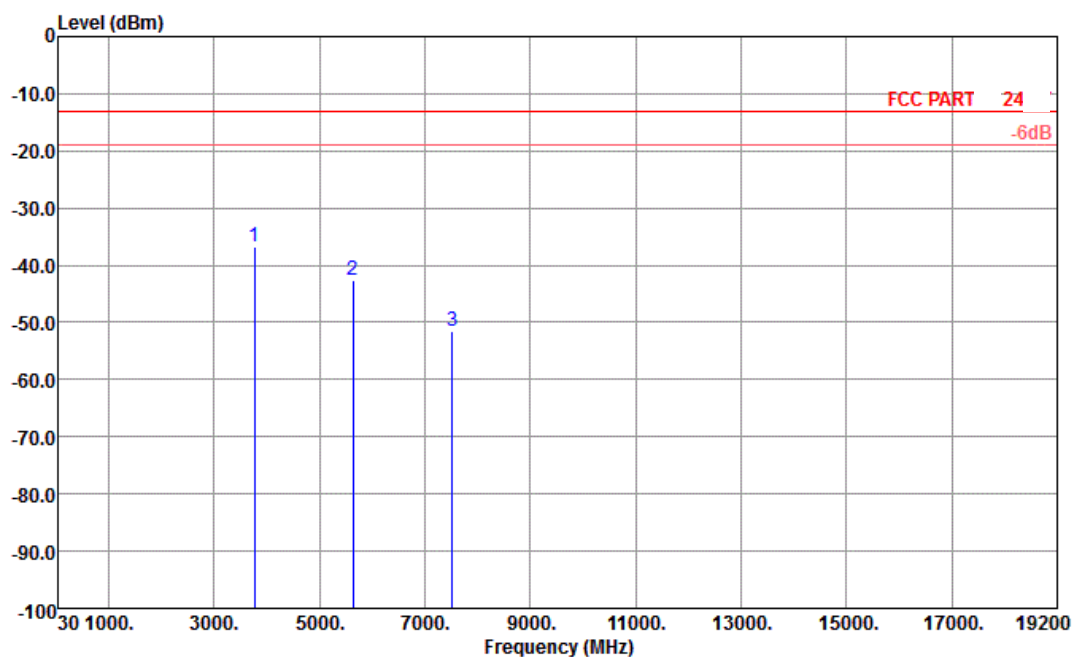


Site : 03CH01-KS

Condition : FCC PART 24 HF_EIRP_FACTOR130726 HORIZONTAL

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3758	-38.26	-13	-25.26	-48.30	-44.64	0.78	7.16	H	Pass
5636	-46.56	-13	-33.56	-58.84	-55.10	1.04	9.58	H	Pass
7514	-54.84	-13	-41.84	-66.38	-64.95	1.35	11.46	H	Pass

Band :	LTE Band 25	Temperature :	23~24°C
Test Mode :	3MHz QPSK RB Size 1 Offset 0	Relative Humidity :	43~44%
Test Engineer :	Stone Gu	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



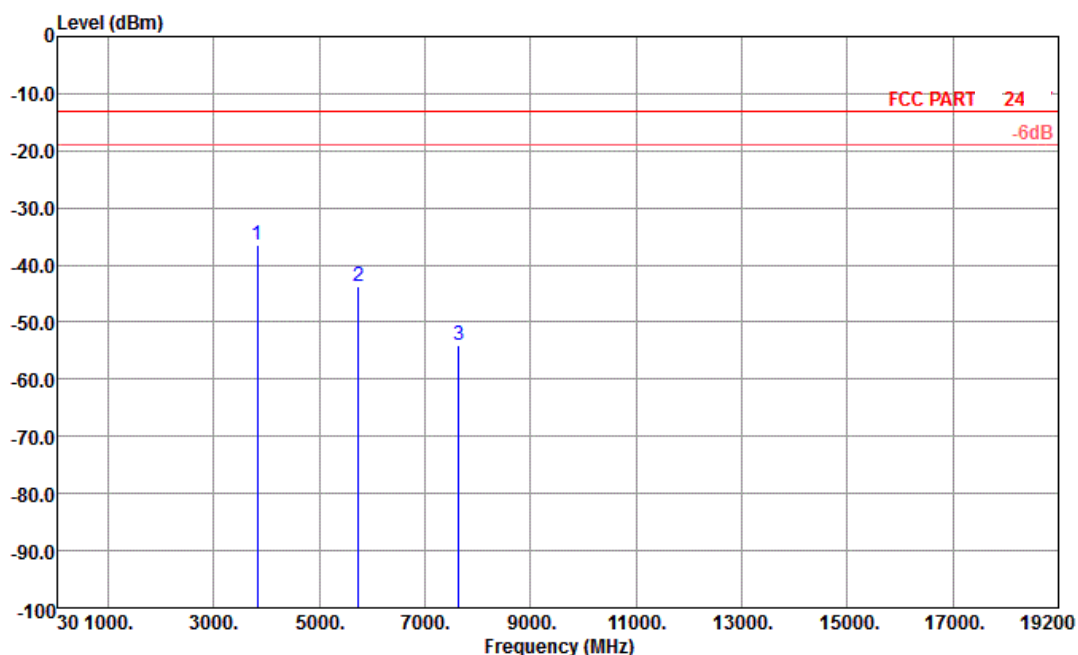
Site : 03CH01-KS

Condition : FCC PART 24 HF_EIRP_FACTOR130726 VERTICAL

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3758	-36.65	-13	-23.65	-48.63	-43.03	0.78	7.16	V	Pass
5636	-42.54	-13	-29.54	-58.07	-51.08	1.04	9.58	V	Pass
7514	-51.48	-13	-38.48	-65.57	-61.59	1.35	11.46	V	Pass



Band :	LTE Band 25	Temperature :	23~24°C
Test Mode :	5MHz QPSK RB Size 1 Offset 0	Relative Humidity :	43~44%
Test Engineer :	Stone Gu	Polarization :	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

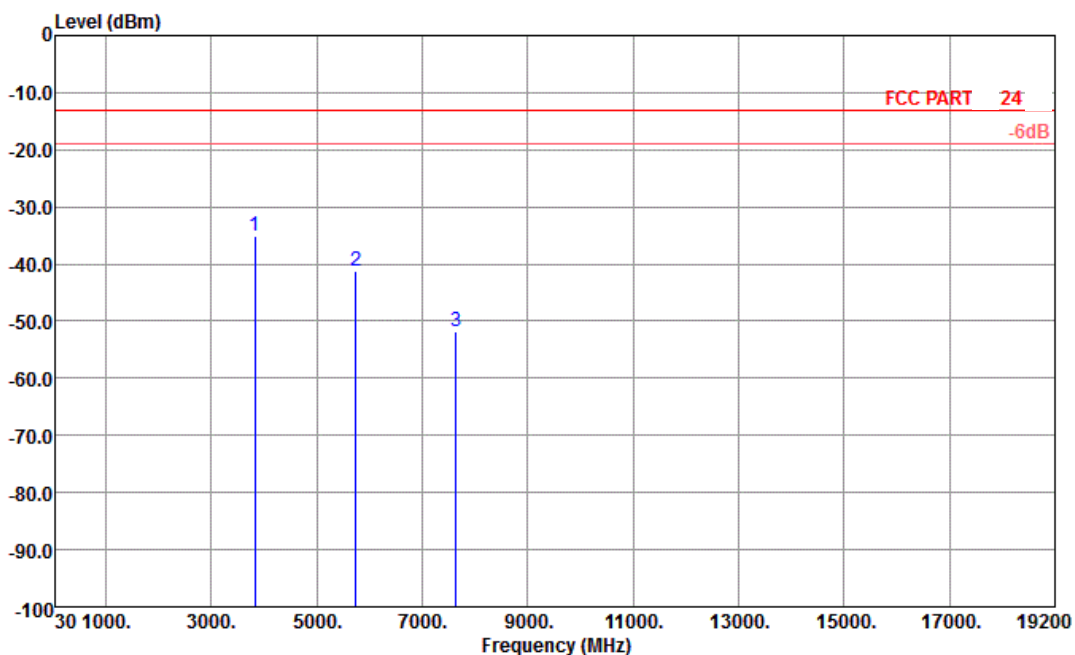


Site : 03CH01-KS
Condition : FCC PART 24 HF_EIRP_FACTOR130726 HORIZONTAL

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3820	-36.45	-13	-23.45	-46.72	-42.83	0.78	7.16	H	Pass
5732	-43.80	-13	-30.80	-57.29	-52.34	1.04	9.58	H	Pass
7640	-54.02	-13	-41.02	-65.56	-64.13	1.35	11.46	H	Pass



Band :	LTE Band 25	Temperature :	23~24°C
Test Mode :	5MHz QPSK RB Size 1 Offset 0	Relative Humidity :	43~44%
Test Engineer :	Stone Gu	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



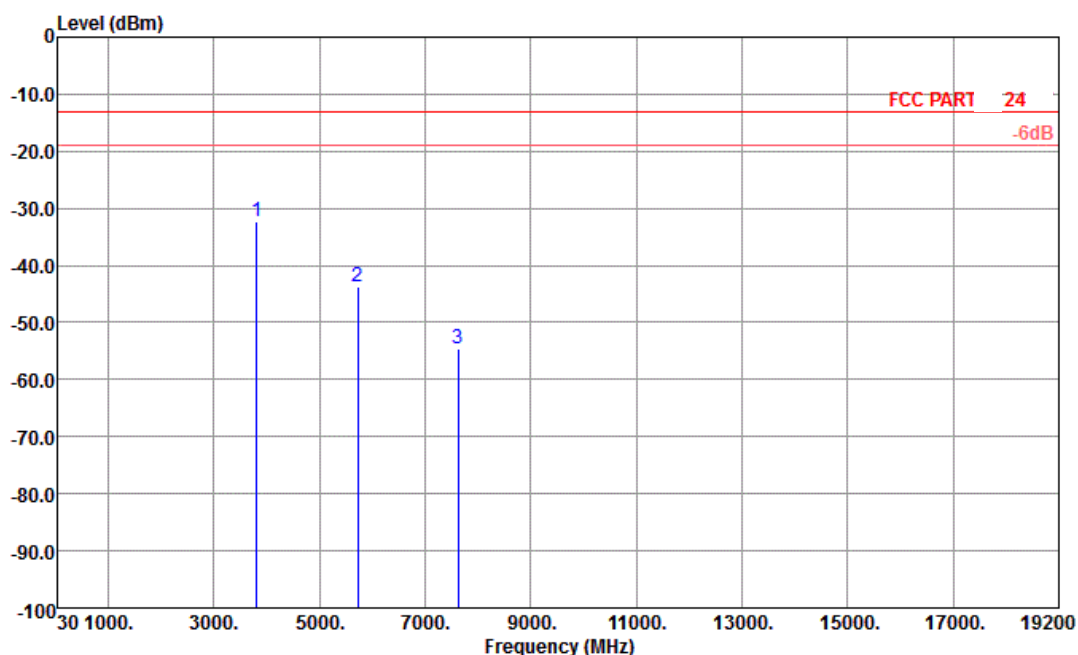
Site : 03CH01-KS

Condition : FCC PART 24 HF_EIRP_FACTOR130726 VERTICAL

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3820	-35.04	-13	-22.04	-47.06	-41.42	0.78	7.16	V	Pass
5732	-41.16	-13	-28.16	-57.05	-49.70	1.04	9.58	V	Pass
7640	-51.93	-13	-38.93	-66.02	-62.04	1.35	11.46	V	Pass



Band :	LTE Band 25	Temperature :	23~24°C
Test Mode :	10MHz QPSK RB Size 1 Offset 0	Relative Humidity :	43~44%
Test Engineer :	Stone Gu	Polarization :	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

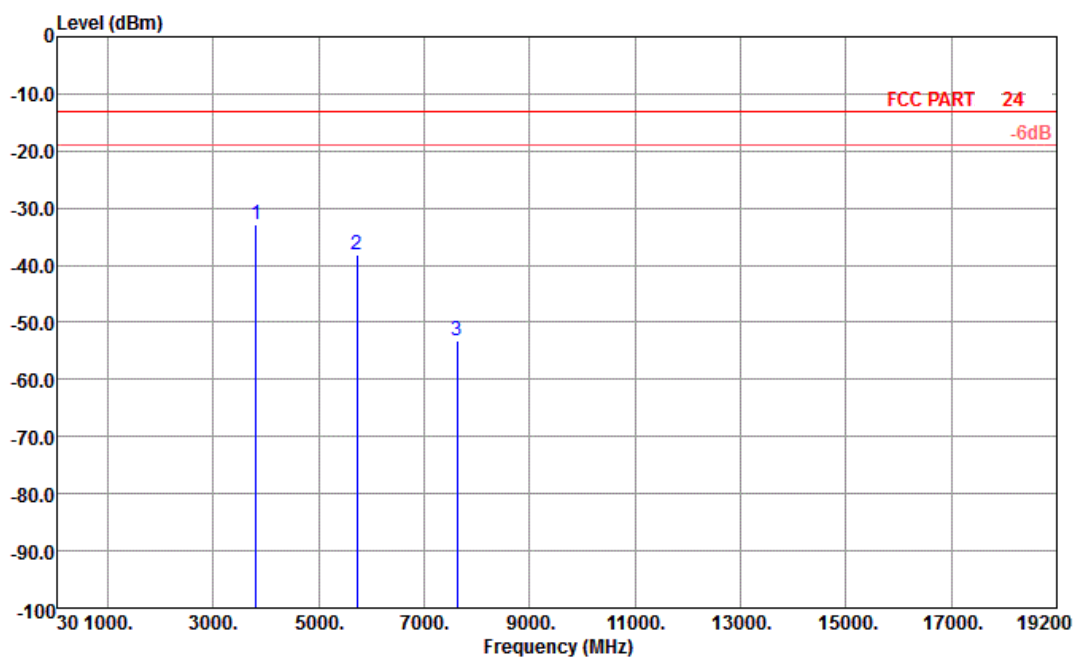


Site : 03CH01-KS
Condition : FCC PART 24 HF_EIRP_FACTOR130726 HORIZONTAL

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3812	-32.34	-13	-19.34	-42.89	-38.72	0.78	7.16	H	Pass
5716	-43.70	-13	-30.70	-57.24	-52.24	1.04	9.58	H	Pass
7620	-54.48	-13	-41.48	-66.02	-64.59	1.35	11.46	H	Pass



Band :	LTE Band 25	Temperature :	23~24°C
Test Mode :	10MHz QPSK RB Size 1 Offset 0	Relative Humidity :	43~44%
Test Engineer :	Stone Gu	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

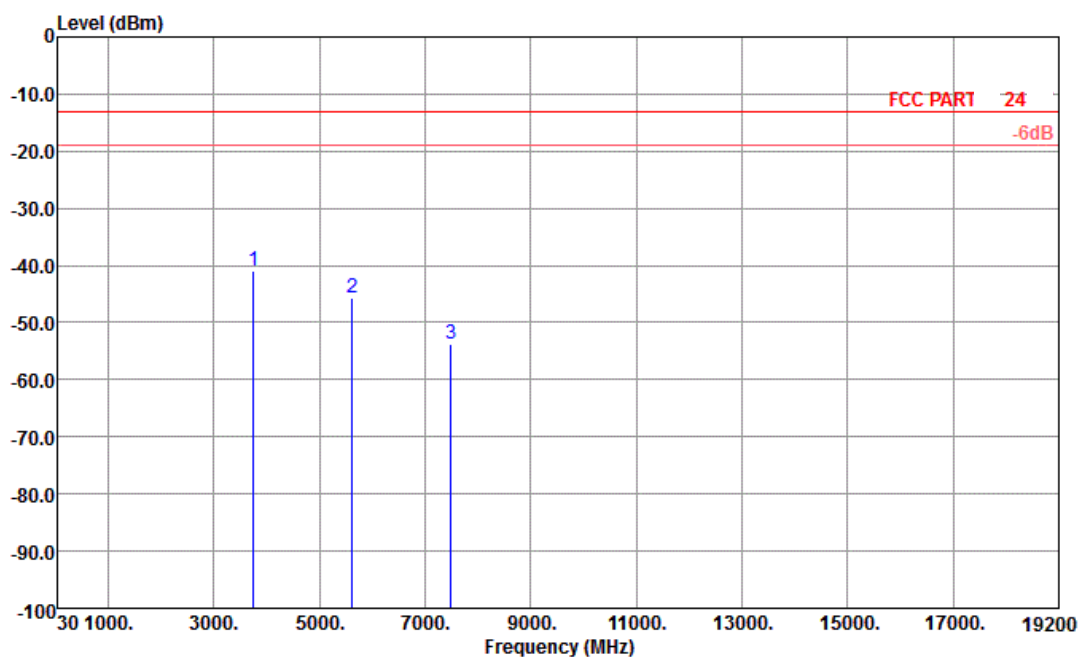


Site : 03CH01-KS

Condition : FCC PART 24 HF_EIRP_FACTOR130726 VERTICAL

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3810	-32.93	-13	-19.93	-45.1	-39.31	0.78	7.16	V	Pass
5716	-38.09	-13	-25.09	-54.44	-46.63	1.04	9.58	V	Pass
7620	-53.08	-13	-40.08	-67.17	-63.19	1.35	11.46	V	Pass

Band :	LTE Band 25	Temperature :	23~24°C
Test Mode :	15MHz QPSK RB Size 1 Offset 0	Relative Humidity :	43~44%
Test Engineer :	Stone Gu	Polarization :	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



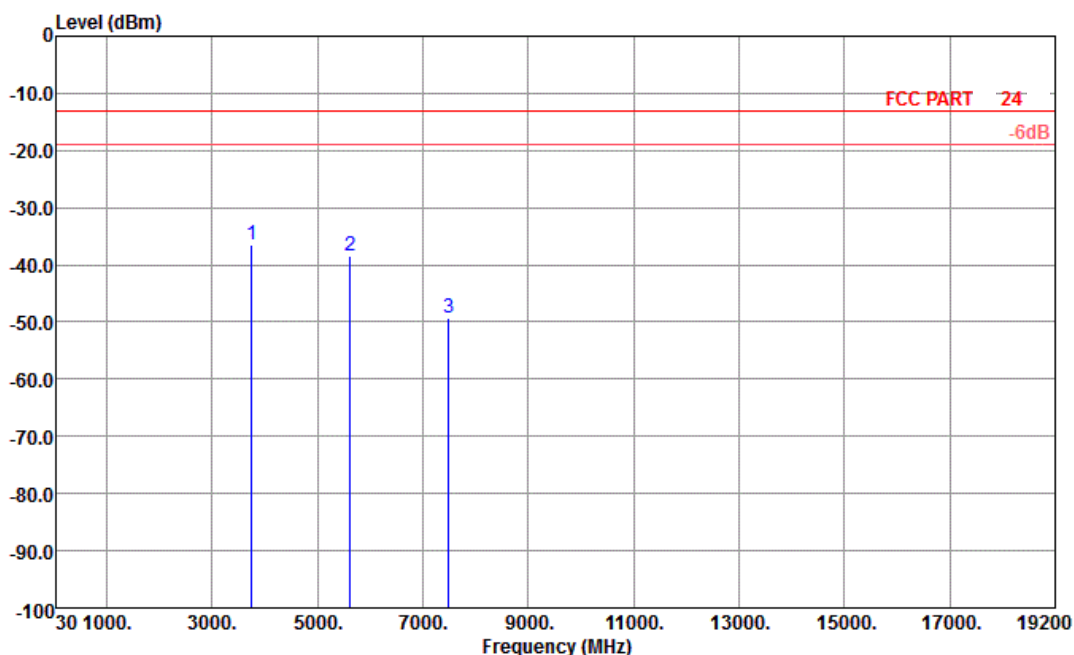
Site : 03CH01-KS

Condition : FCC PART 24 HF_EIRP_FACTOR130726 HORIZONTAL

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3746	-40.97	-13	-27.97	-50.65	-47.35	0.78	7.16	H	Pass
5620	-45.57	-13	-32.57	-58.23	-54.11	1.04	9.58	H	Pass
7490	-53.70	-13	-40.70	-65.24	-63.81	1.35	11.46	H	Pass



Band :	LTE Band 25	Temperature :	23~24°C
Test Mode :	15MHz QPSK RB Size 1 Offset 0	Relative Humidity :	43~44%
Test Engineer :	Stone Gu	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

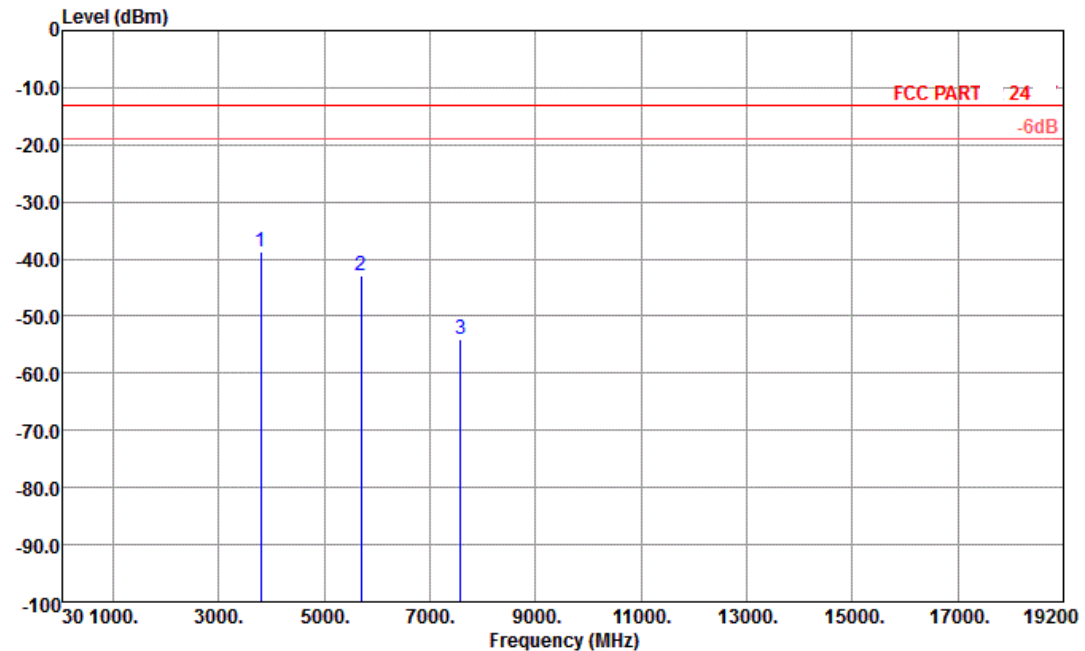


Site : 03CH01-KS

Condition : FCC PART 24 HF_EIRP_FACTOR130726 VERTICAL

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3746	-36.57	-13	-23.57	-48.55	-42.95	0.78	7.16	V	Pass
5620	-38.53	-13	-25.53	-54.91	-47.07	1.04	9.58	V	Pass
7494	-49.44	-13	-36.44	-63.53	-59.55	1.35	11.46	V	Pass

Band :	LTE Band 25	Temperature :	23~24°C
Test Mode :	20MHz QPSK RB Size 1 Offset 0	Relative Humidity :	43~44%
Test Engineer :	Stone Gu	Polarization :	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

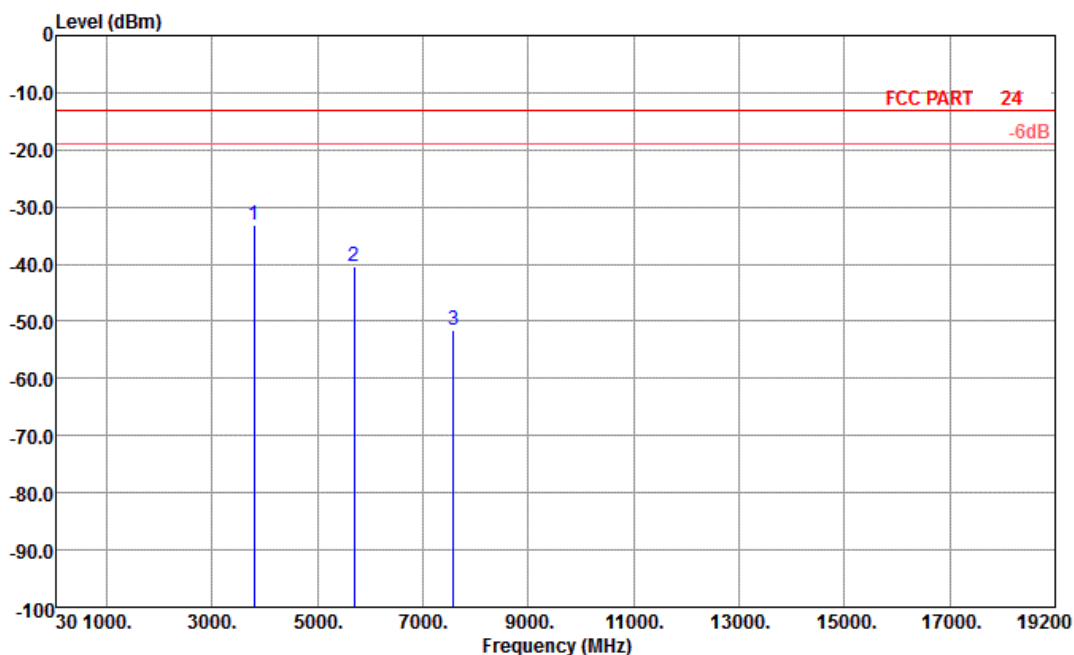


Site : 03CH01-KS
Condition : FCC PART 24 HF_EIRP_FACTOR130726 HORIZONTAL

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3792	-38.83	-13	-25.83	-48.83	-45.21	0.78	7.16	H	Pass
5688	-42.76	-13	-29.76	-56.66	-51.30	1.04	9.58	H	Pass
7584	-54.06	-13	-41.06	-65.60	-64.17	1.35	11.46	H	Pass



Band :	LTE Band 25	Temperature :	23~24°C
Test Mode :	20MHz QPSK RB Size 1 Offset 0	Relative Humidity :	43~44%
Test Engineer :	Stone Gu	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



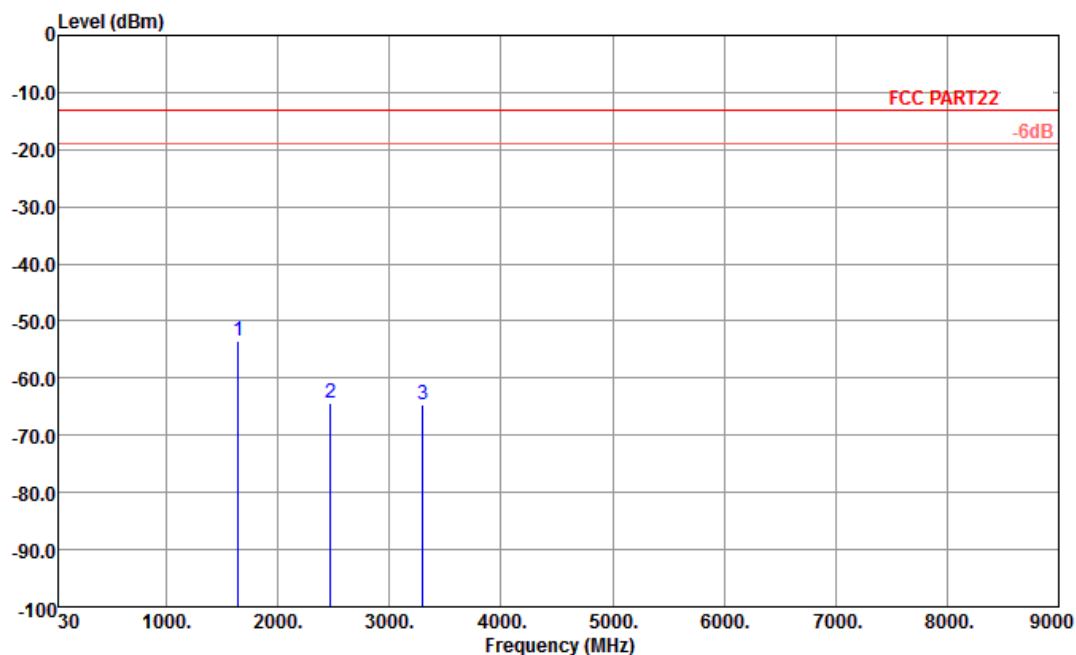
Site : 03CH01-KS

Condition : FCC PART 24 HF_EIRP_FACTOR130726 VERTICAL

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3792	-33.10	-13	-20.10	-45.28	-39.48	0.78	7.16	V	Pass
5688	-40.28	-13	-27.28	-56.35	-48.82	1.04	9.58	V	Pass
7584	-51.40	-13	-38.40	-65.49	-61.51	1.35	11.46	V	Pass



Band :	LTE Band 26	Temperature :	23~24°C
Test Mode :	1.4MHz QPSK RB Size 1 Offset 0	Relative Humidity :	43~44%
Test Engineer :	Stone Gu	Polarization :	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



Site : 03CH01-KS

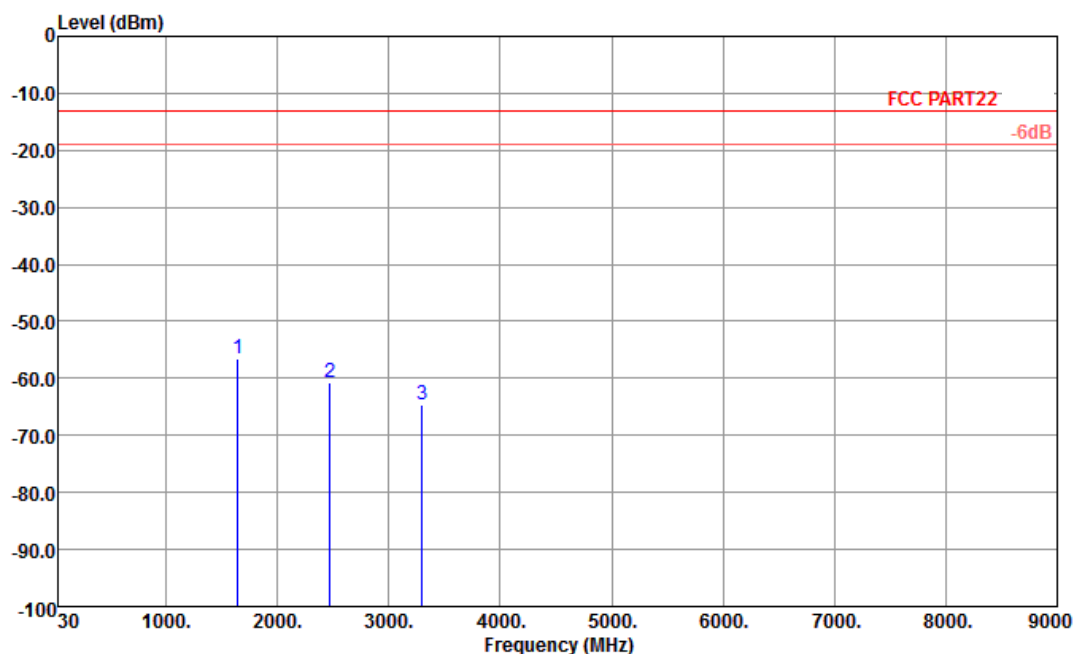
Condition : FCC PART22

HF_EIRP_FACTOR130726 HORIZONTAL

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1648	-53.49	-13	-40.49	-51.05	-54.14	0.57	3.37	H	Pass
2474	-64.41	-13	-51.41	-63.08	-66.64	0.78	5.16	H	Pass
3296	-64.62	-13	-51.62	-64.25	-68.26	0.87	6.66	H	Pass



Band :	LTE Band 26	Temperature :	23~24°C
Test Mode :	1.4MHz QPSK RB Size 1 Offset 0	Relative Humidity :	43~44%
Test Engineer :	Stone Gu	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



Site : 03CH01-KS

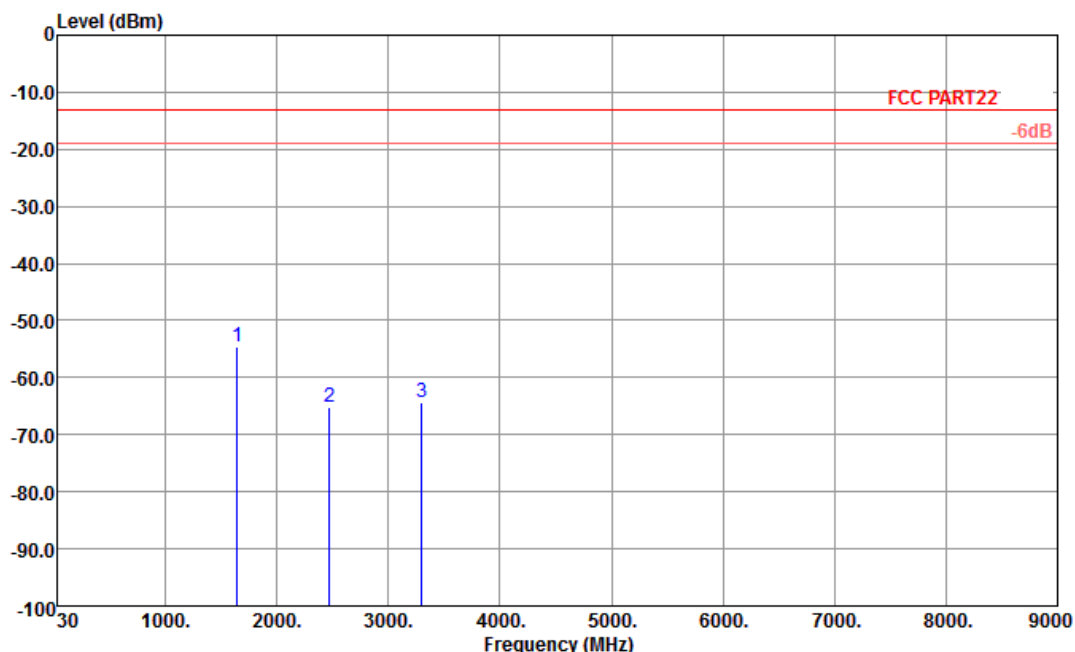
Condition : FCC PART22

HF_EIRP_FACTOR130726 VERTICAL

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1648	-56.57	-13	-43.57	-57.44	-57.22	0.57	3.37	V	Pass
2474	-60.76	-13	-47.76	-63.19	-62.99	0.78	5.16	V	Pass
3298	-64.73	-13	-51.73	-65.79	-68.37	0.87	6.66	V	Pass



Band :	LTE Band 26	Temperature :	23~24°C
Test Mode :	3MHz QPSK RB Size 1 Offset 0	Relative Humidity :	43~44%
Test Engineer :	Stone Gu	Polarization :	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

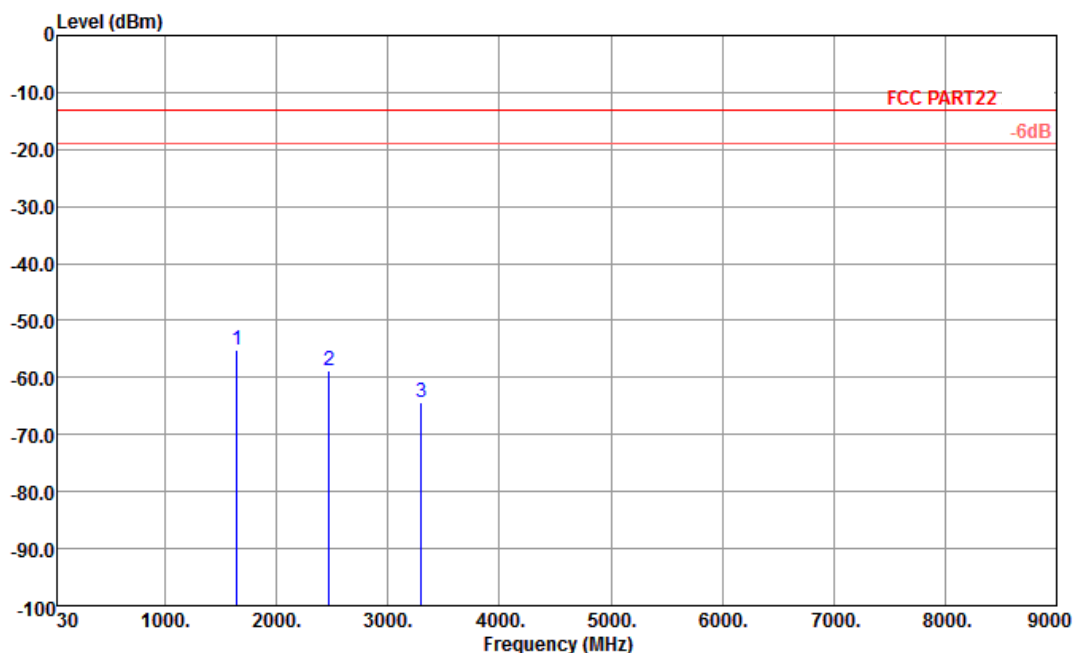


Site : 03CH01-KS
Condition : FCC PART22 HF_EIRP_FACTOR130726 HORIZONTAL

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1648	-54.58	-13	-41.58	-51.86	-55.23	0.57	3.37	H	Pass
2474	-65.30	-13	-52.30	-63.97	-67.53	0.78	5.16	H	Pass
3296	-64.37	-13	-51.37	-64.00	-68.01	0.87	6.66	H	Pass



Band :	LTE Band 26	Temperature :	23~24°C
Test Mode :	3MHz QPSK RB Size 1 Offset 0	Relative Humidity :	43~44%
Test Engineer :	Stone Gu	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



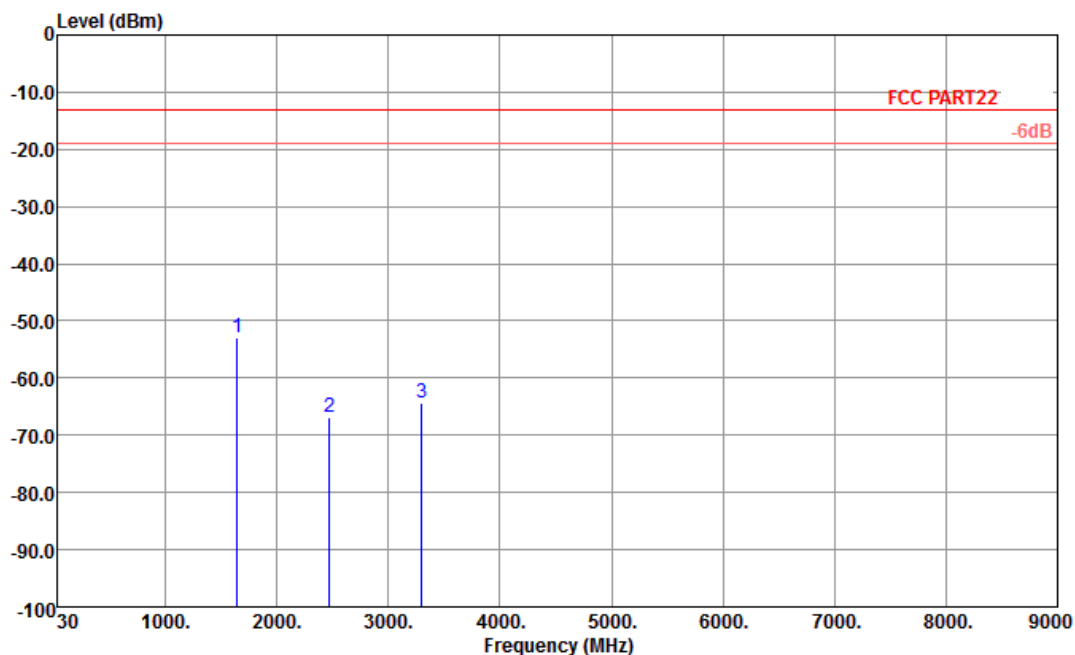
Site : 03CH01-KS

Condition : FCC PART22

HF_EIRP_FACTOR130726 VERTICAL

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1648	-55.03	-13	-42.03	-56.42	-55.68	0.57	3.37	V	Pass
2474	-58.86	-13	-45.86	-61.90	-61.09	0.78	5.16	V	Pass
3296	-64.37	-13	-51.37	-65.43	-68.01	0.87	6.66	V	Pass

Band :	LTE Band 26	Temperature :	23~24°C
Test Mode :	5MHz QPSK RB Size 1 Offset 0	Relative Humidity :	43~44%
Test Engineer :	Stone Gu	Polarization :	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



Site : 03CH01-KS

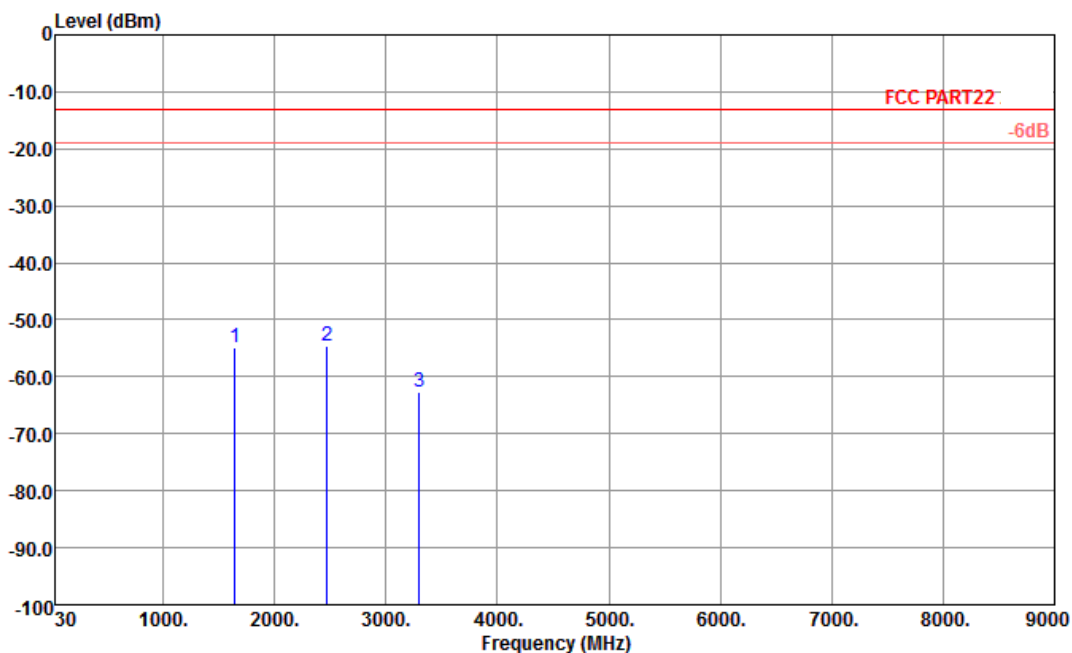
Condition : FCC PART22

HF_EIRP_FACTOR130726 HORIZONTAL

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1648	-52.89	-13	-39.89	-50.53	-53.54	0.57	3.37	H	Pass
2474	-66.87	-13	-53.87	-65.54	-69.10	0.78	5.16	H	Pass
3296	-64.28	-13	-51.28	-63.91	-67.92	0.87	6.66	H	Pass



Band :	LTE Band 26	Temperature :	23~24°C
Test Mode :	5MHz QPSK RB Size 1 Offset 0	Relative Humidity :	43~44%
Test Engineer :	Stone Gu	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



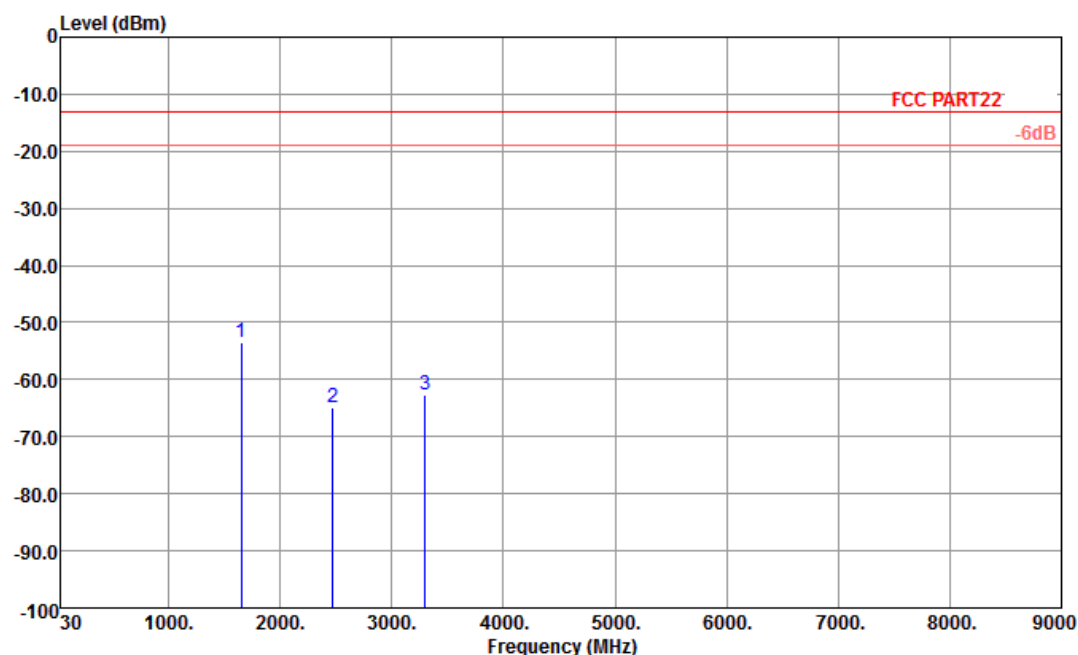
Site : 03CH01-KS

Condition : FCC PART22

HF_EIRP_FACTOR130726 VERTICAL

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1648	-55.00	-13	-42.00	-56.39	-55.65	0.57	3.37	V	Pass
2474	-54.73	-13	-41.73	-59.64	-56.96	0.78	5.16	V	Pass
3296	-62.55	-13	-49.55	-63.61	-66.19	0.87	6.66	V	Pass

Band :	LTE Band 26	Temperature :	23~24°C
Test Mode :	10MHz QPSK RB Size 1 Offset 0	Relative Humidity :	43~44%
Test Engineer :	Stone Gu	Polarization :	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



Site : 03CH01-KS

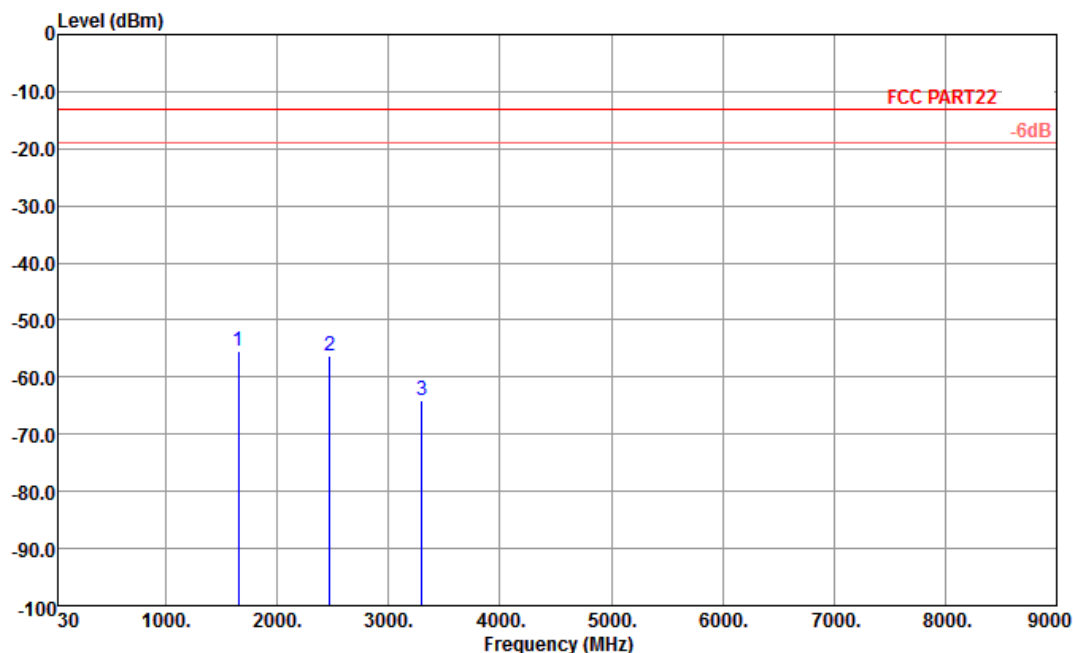
Condition : FCC PART22

HF_EIRP_FACTOR130726 HORIZONTAL

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1650	-53.37	-13	-40.37	-50.94	-54.02	0.57	3.37	H	Pass
2474	-64.94	-13	-51.94	-63.61	-67.17	0.78	5.16	H	Pass
3298	-62.67	-13	-49.67	-62.30	-66.31	0.87	6.66	H	Pass



Band :	LTE Band 26	Temperature :	23~24°C
Test Mode :	10MHz QPSK RB Size 1 Offset 0	Relative Humidity :	43~44%
Test Engineer :	Stone Gu	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



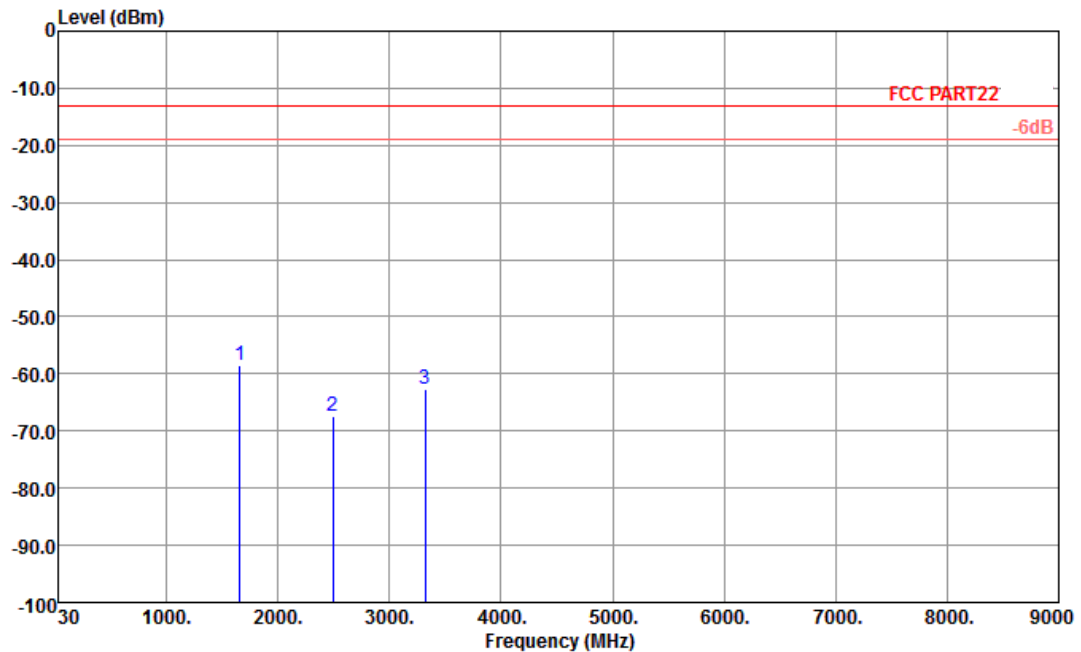
Site : 03CH01-KS

Condition : FCC PART22

HF_EIRP_FACTOR130726 VERTICAL

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1650	-55.33	-13	-42.33	-56.65	-55.98	0.57	3.37	V	Pass
2474	-56.30	-13	-43.30	-60.58	-58.53	0.78	5.16	V	Pass
3296	-64.14	-13	-51.14	-65.20	-67.78	0.87	6.66	V	Pass

Band :	LTE Band 26	Temperature :	23~24°C
Test Mode :	15MHz QPSK RB Size 1 Offset 0	Relative Humidity :	43~44%
Test Engineer :	Stone Gu	Polarization :	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



Site : 03CH01-KS

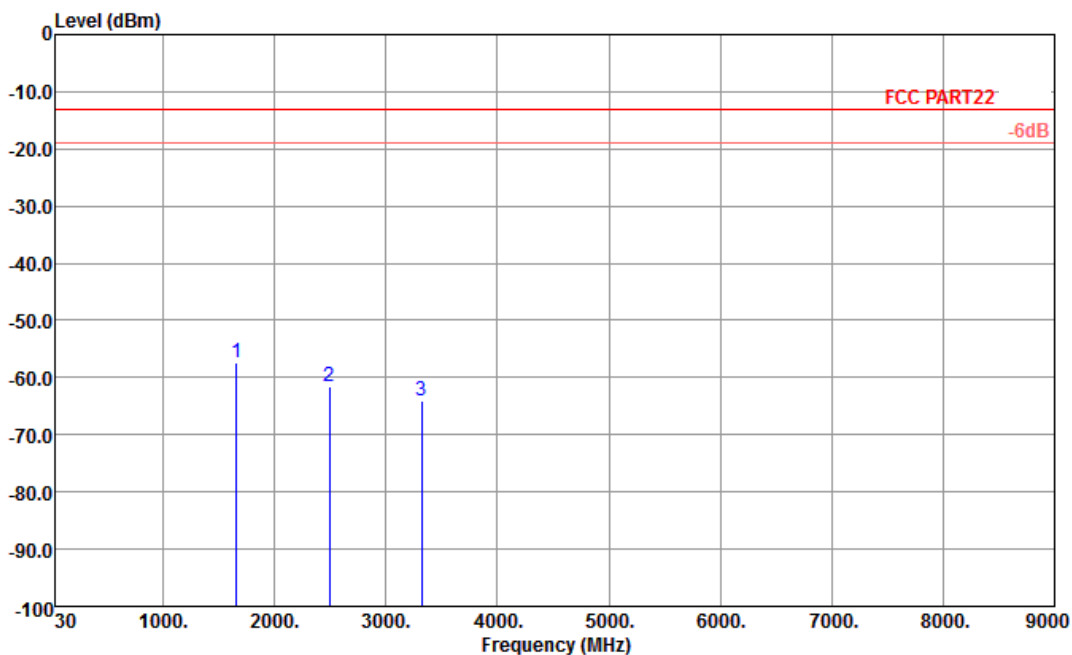
Condition : FCC PART22

HF_EIRP_FACTOR130726 HORIZONTAL

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1660	-58.37	-13	-45.37	-54.56	-59.02	0.57	3.37	H	Pass
2490	-67.34	-13	-54.34	-66.01	-69.57	0.78	5.16	H	Pass
3318	-62.57	-13	-49.57	-62.20	-66.21	0.87	6.66	H	Pass



Band :	LTE Band 26	Temperature :	23~24°C
Test Mode :	15MHz QPSK RB Size 1 Offset 0	Relative Humidity :	43~44%
Test Engineer :	Stone Gu	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



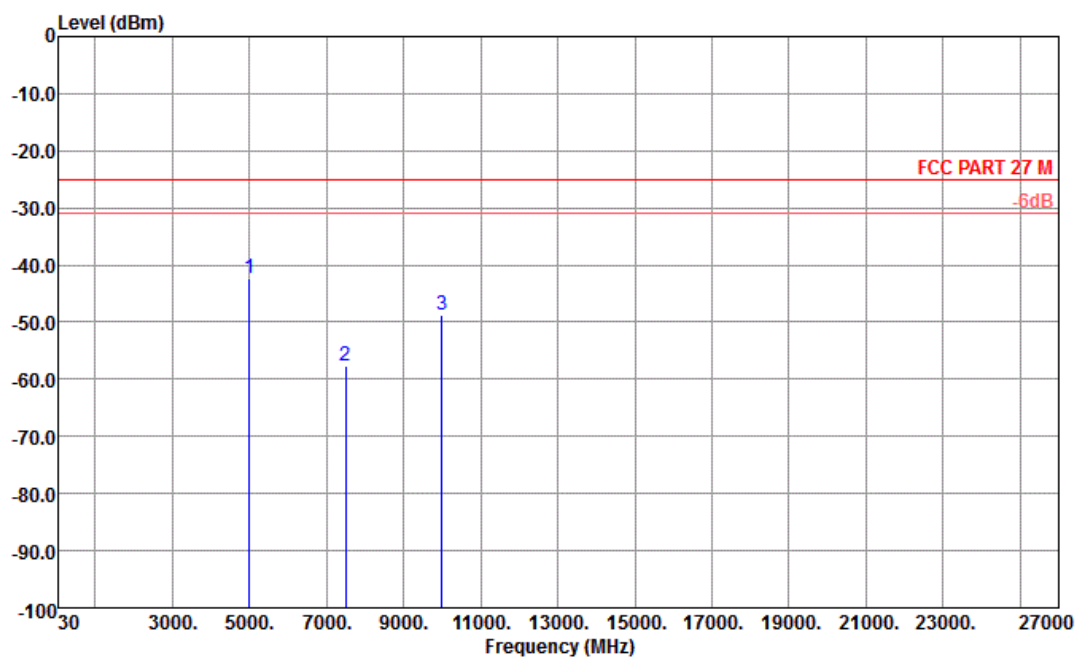
Site : 03CH01-KS

Condition : FCC PART22

HF_EIRP_FACTOR130726 VERTICAL

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1660	-57.41	-13	-44.41	-57.94	-58.06	0.57	3.37	V	Pass
2490	-61.46	-13	-48.46	-63.89	-63.69	0.78	5.16	V	Pass
3320	-64.14	-13	-51.14	-65.20	-67.78	0.87	6.66	V	Pass

Band :	LTE Band 41	Temperature :	23~24°C
Test Mode :	5MHz QPSK RB Size 1 Offset 0	Relative Humidity :	43~44%
Test Engineer :	Stone Gu	Polarization :	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

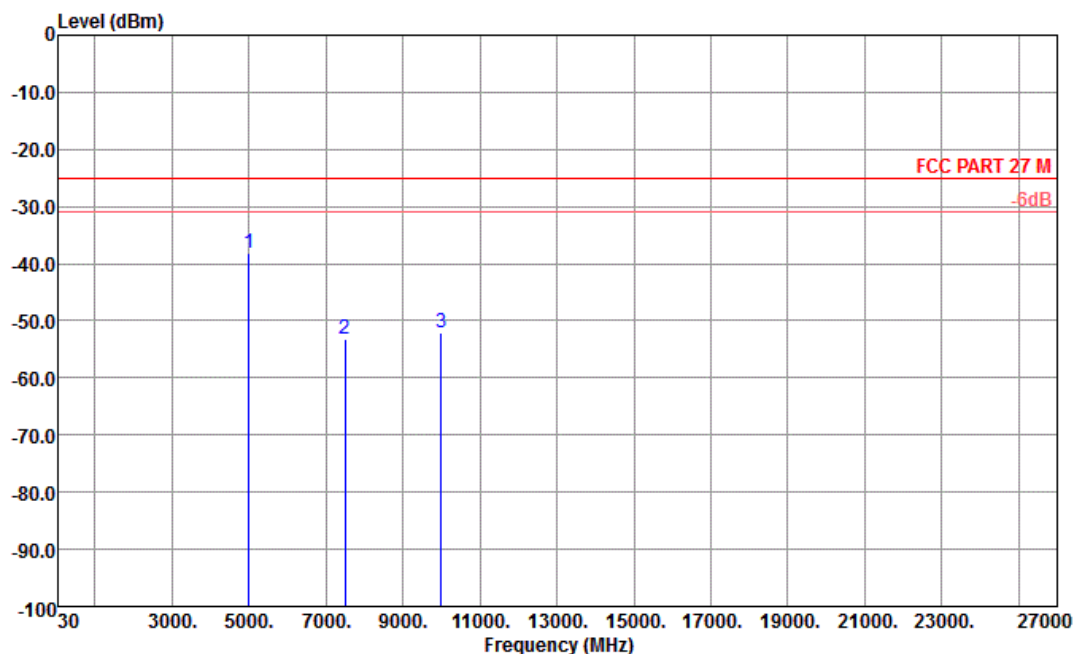


Site : 03CH01-KS

Condition : FCC PART 27 M HF_EIRP_FACTOR130726 HORIZONTAL

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
4994	-42.21	-25	-17.21	-51.83	-44.17	6.65	8.61	H	Pass
7488	-57.61	-25	-32.61	-65.61	-60.73	7.99	11.11	H	Pass
9984	-48.82	-25	-23.82	-63.66	-52.55	9.35	13.08	H	Pass

Band :	LTE Band 41	Temperature :	23~24°C
Test Mode :	5MHz QPSK RB Size 1 Offset 0	Relative Humidity :	43~44%
Test Engineer :	Stone Gu	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

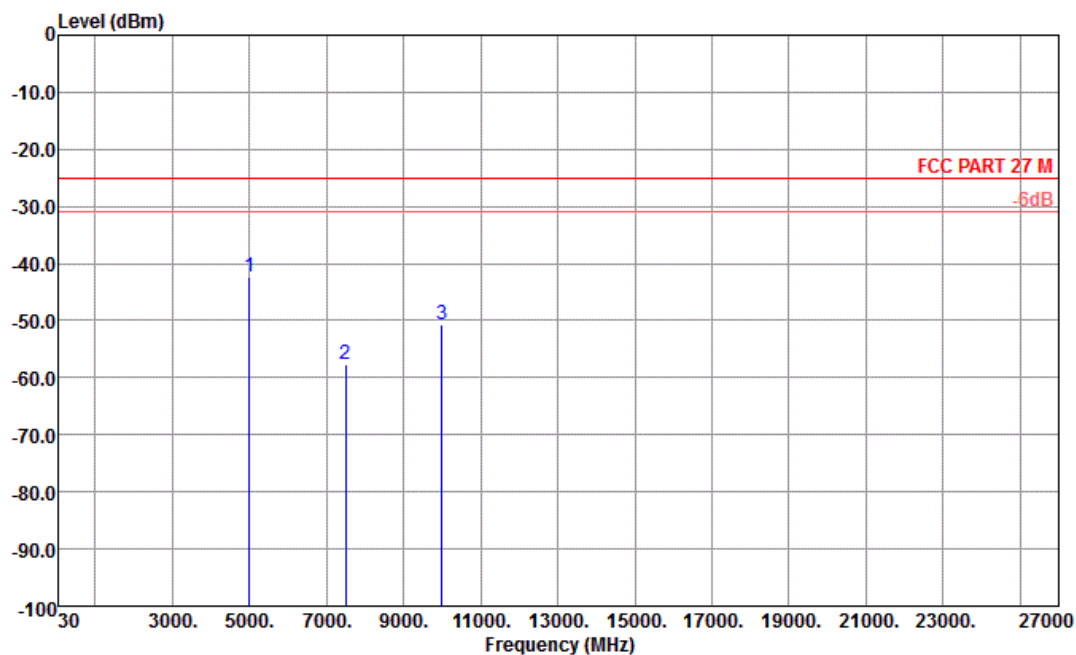


Site : 03CH01-KS

Condition : FCC PART 27 M HF_EIRP_FACTOR130726 VERTICAL

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
4994	-38.06	-25	-13.06	-50.96	-40.02	6.65	8.61	V	Pass
7488	-53.33	-25	-28.33	-63.13	-56.45	7.99	11.11	V	Pass
9984	-52.18	-25	-27.18	-64.83	-55.91	9.35	13.08	V	Pass

Band :	LTE Band 41	Temperature :	23~24°C
Test Mode :	10MHz QPSK RB Size 1 Offset 0	Relative Humidity :	43~44%
Test Engineer :	Stone Gu	Polarization :	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

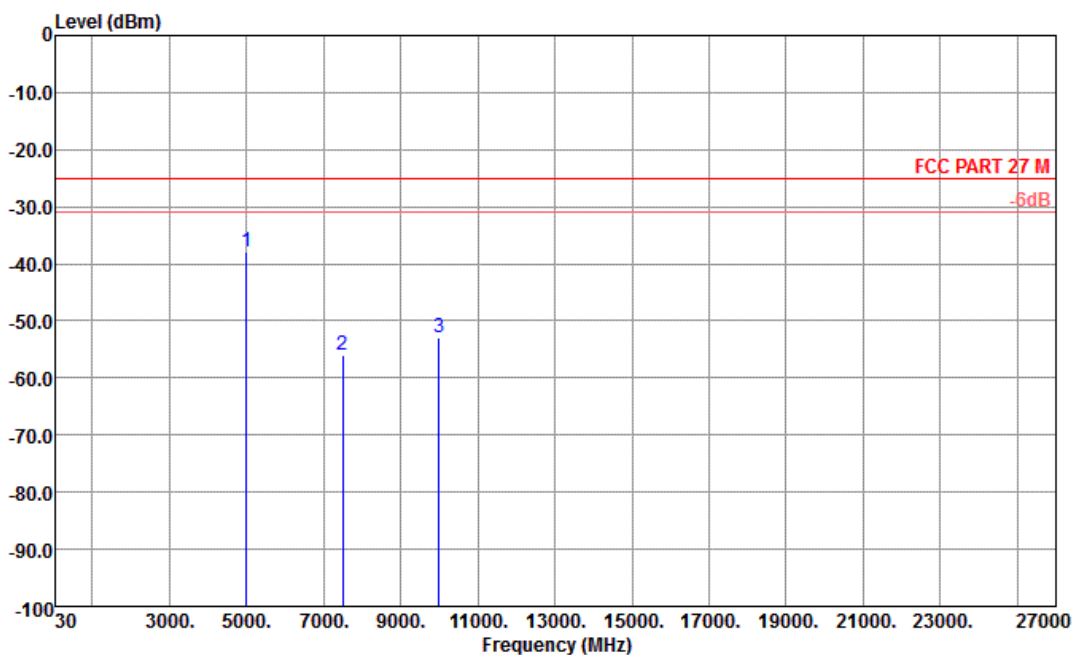


Site : 03CH01-KS

Condition : FCC PART 27 M HF_EIRP_FACTOR130726 HORIZONTAL

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
4994	-42.37	-25	-17.37	-51.96	-44.33	6.65	8.61	H	Pass
7488	-57.63	-25	-32.63	-65.63	-60.75	7.99	11.11	H	Pass
9984	-50.69	-25	-25.69	-65.53	-54.42	9.35	13.08	H	Pass

Band :	LTE Band 41	Temperature :	23~24°C
Test Mode :	10MHz QPSK RB Size 1 Offset 0	Relative Humidity :	43~44%
Test Engineer :	Stone Gu	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

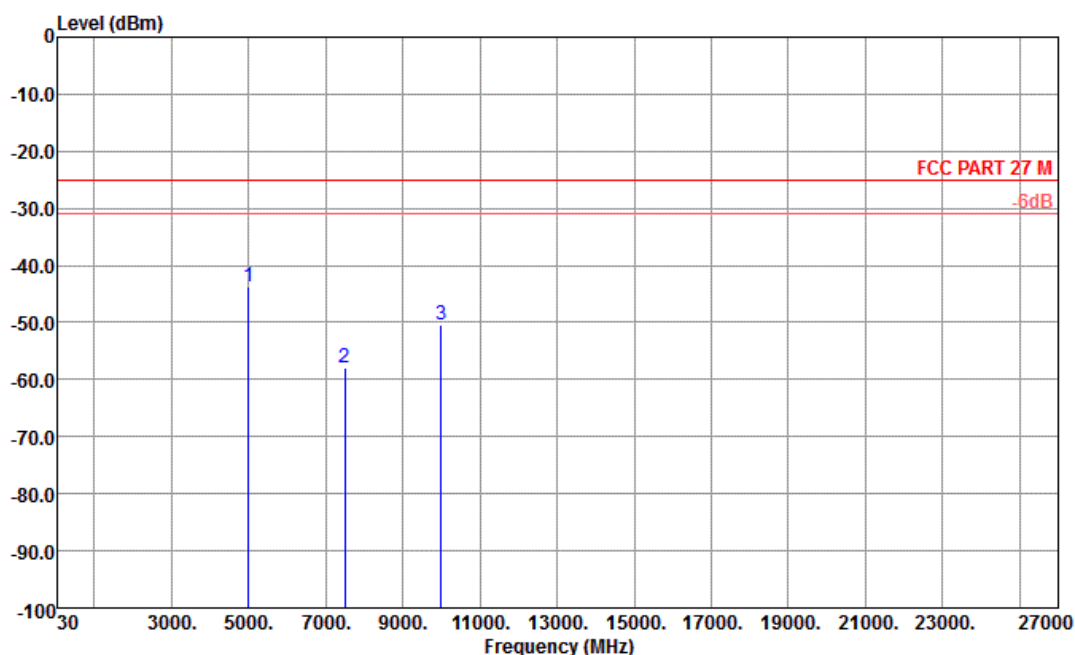


Site : 03CH01-KS

Condition : FCC PART 27 M HF_EIRP_FACTOR130726 VERTICAL

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
4994	-37.98	-25	-12.98	-50.9	-39.94	6.65	8.61	V	Pass
7488	-56.09	-25	-31.09	-65.89	-59.21	7.99	11.11	V	Pass
9984	-52.93	-25	-27.93	-65.58	-56.66	9.35	13.08	V	Pass

Band :	LTE Band 41	Temperature :	23~24°C
Test Mode :	15MHz QPSK RB Size 1 Offset 0	Relative Humidity :	43~44%
Test Engineer :	Stone Gu	Polarization :	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

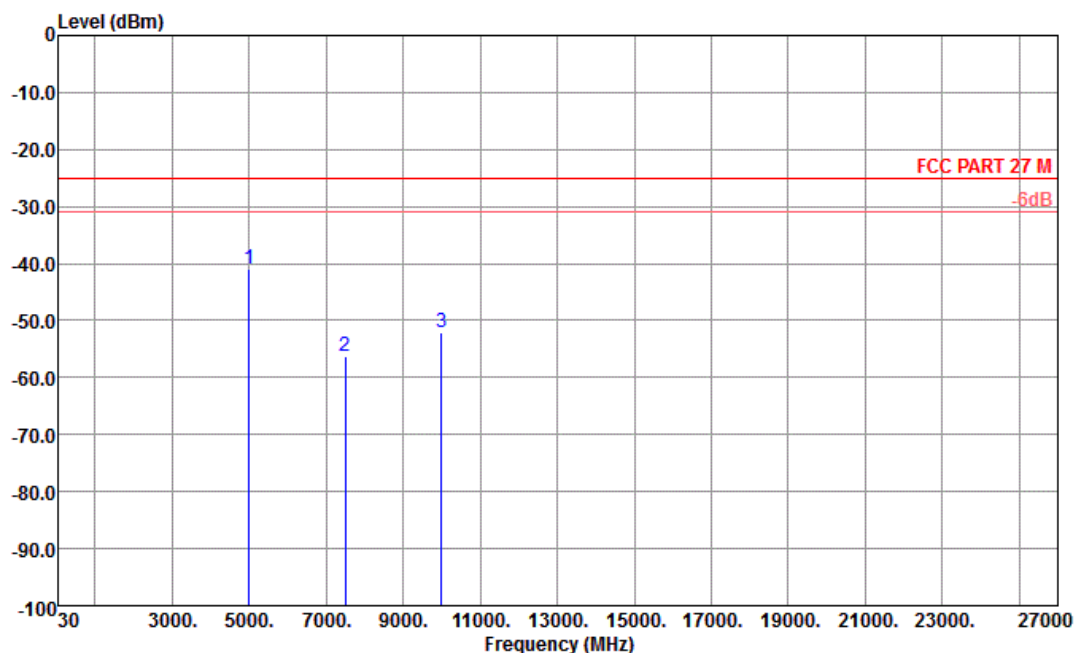


Site : 03CH01-KS

Condition : FCC PART 27 M HF_EIRP_FACTOR130726 HORIZONTAL

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
4994	-43.60	-25	-18.60	-52.94	-45.56	6.65	8.61	H	Pass
7488	-58.02	-25	-33.02	-66.02	-61.14	7.99	11.11	H	Pass
9984	-50.40	-25	-25.40	-65.24	-54.13	9.35	13.08	H	Pass

Band :	LTE Band 41	Temperature :	23~24°C
Test Mode :	15MHz QPSK RB Size 1 Offset 0	Relative Humidity :	43~44%
Test Engineer :	Stone Gu	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

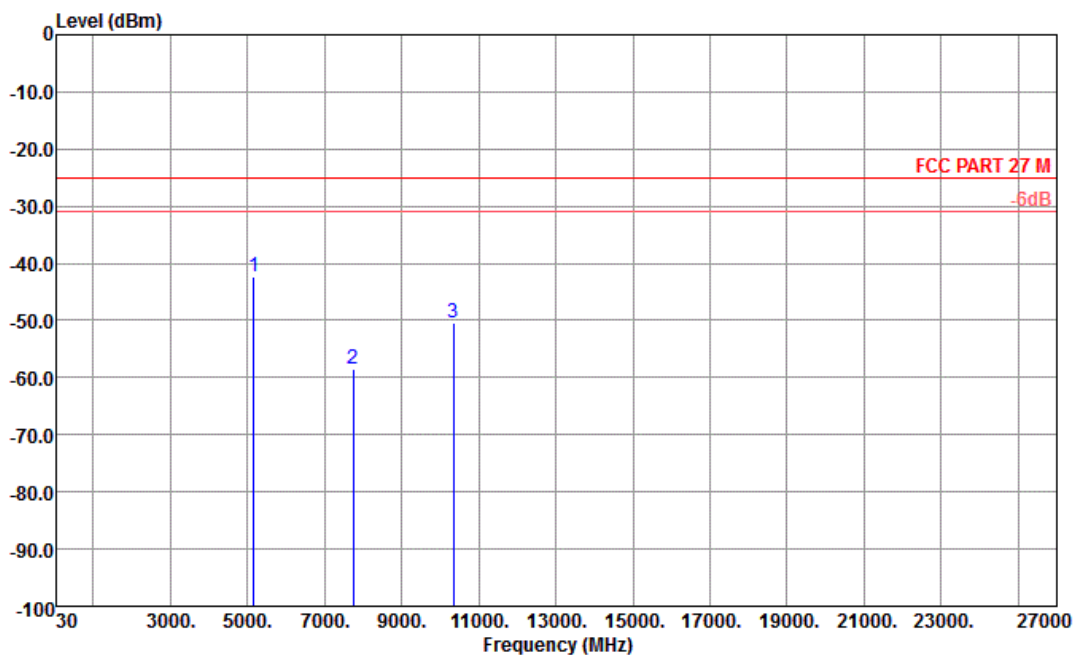


Site : 03CH01-KS

Condition : FCC PART 27 M HF_EIRP_FACTOR130726 VERTICAL

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
4994	-40.82	-25	-15.82	-53.19	-42.78	6.65	8.61	V	Pass
7488	-56.18	-25	-31.18	-65.98	-59.30	7.99	11.11	V	Pass
9984	-52.14	-25	-27.14	-64.79	-55.87	9.35	13.08	V	Pass

Band :	LTE Band 41	Temperature :	23~24°C
Test Mode :	20MHz QPSK RB Size 1 Offset 0	Relative Humidity :	43~44%
Test Engineer :	Stone Gu	Polarization :	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



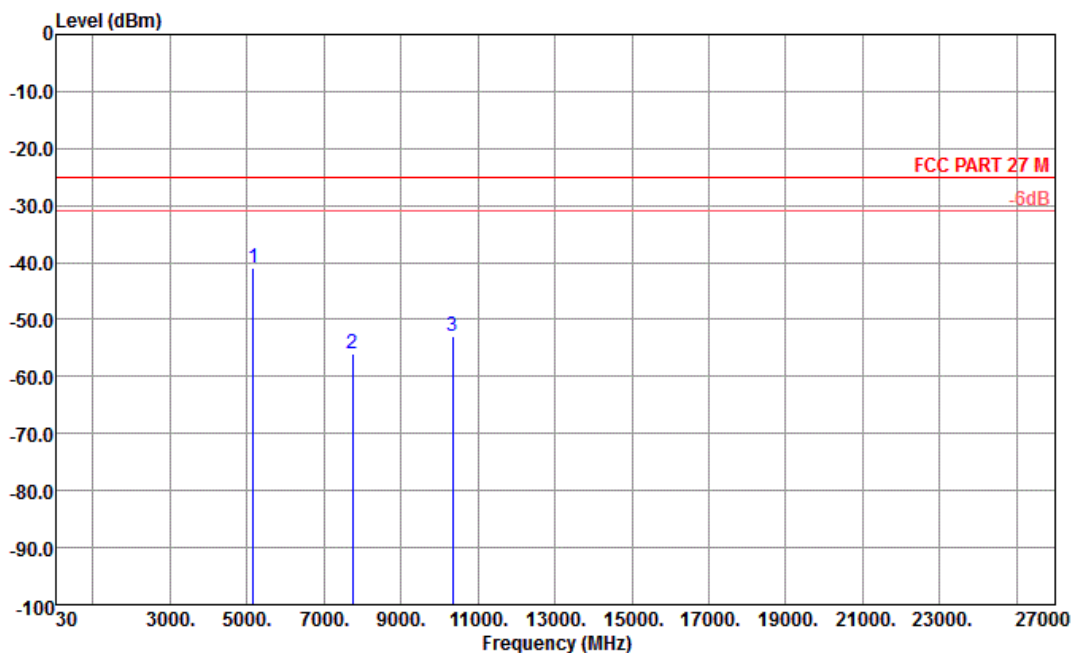
Site : 03CH01-KS

Condition : FCC PART 27 M HF_EIRP_FACTOR130726 HORIZONTAL

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
5168	-42.25	-25	-17.25	-51.86	-44.21	6.65	8.61	H	Pass
7748	-58.40	-25	-33.40	-66.40	-61.52	7.99	11.11	H	Pass
10332	-50.36	-25	-25.36	-65.20	-54.09	9.35	13.08	H	Pass



Band :	LTE Band 41	Temperature :	23~24°C
Test Mode :	20MHz QPSK RB Size 1 Offset 0	Relative Humidity :	43~44%
Test Engineer :	Stone Gu	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



Site : 03CH01-KS

Condition : FCC PART 27 M HF_EIRP_FACTOR130726 VERTICAL

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
5168	-41.06	-25	-16.06	-53.41	-43.02	6.65	8.61	V	Pass
7748	-56.00	-25	-31.00	-65.8	-59.12	7.99	11.11	V	Pass
10332	-52.97	-25	-27.97	-65.62	-56.70	9.35	13.08	V	Pass

3.8 Frequency Stability Measurement

3.8.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.

3.8.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

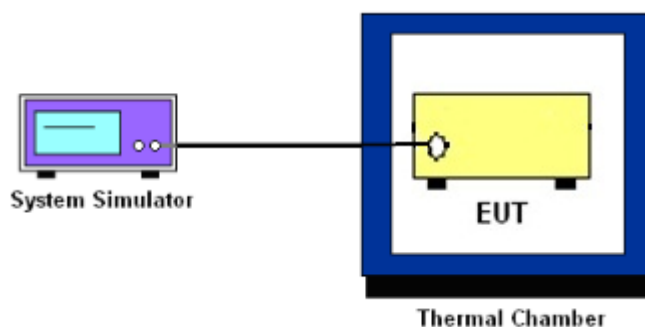
3.8.3 Test Procedures for Temperature Variation

1. The EUT was set up in the thermal chamber and connected with the base station.
2. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
3. With power OFF, the temperature was raised in 10°C step up to 50°C . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.8.4 Test Procedures for Voltage Variation

1. The EUT was placed in a temperature chamber at $25\pm 5^{\circ}\text{C}$ and connected with the base station.
2. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
3. The variation in frequency was measured for the worst case.

3.8.5 Test Setup



3.8.6 Test Result of Temperature Variation (FCC)

Band :	LTE Band 25 (QPSK)			Limit (ppm) :	2.5
Temperature (°C)	BW 1.4MHz		BW 3MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	-6.5	-0.003	5.2	+0.003	PASS
-20	6.5	+0.003	6.8	+0.004	
-10	-6.5	-0.003	7.8	+0.004	
0	-9.8	-0.005	9.5	+0.005	
10	7.4	+0.004	6.5	+0.003	
20	5.1	+0.003	3.2	+0.002	
30	2.3	+0.001	1.5	+0.001	
40	6.6	+0.004	3.5	+0.002	
50	5.8	+0.003	8.5	+0.005	

Band :	LTE Band 25 (QPSK)			Limit (ppm) :	2.5
Temperature (°C)	BW 5MHz		BW 10MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	5.6	+0.003	5.6	+0.003	PASS
-20	6.2	+0.003	-9.8	-0.005	
-10	3.5	+0.002	7.5	+0.004	
0	5.4	+0.003	3.6	+0.002	
10	5.8	+0.003	-6.8	-0.004	
20	-9.8	-0.005	4.2	+0.002	
30	-6.5	-0.003	1.8	+0.001	
40	9.5	+0.005	5.6	+0.003	
50	8.5	+0.005	-9.8	-0.005	

Band :	LTE Band 25 (QPSK)		Limit (ppm) :	2.5	
Temperature (°C)	BW 15MHz		BW 20MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	-8.5	-0.005	-8.5	-0.005	PASS
-20	-6.5	-0.003	6.6	+0.004	
-10	-3.5	-0.002	7.2	+0.004	
0	-6.7	-0.004	-9.1	-0.005	
10	-7.1	-0.004	8.1	+0.004	
20	-5.8	-0.003	11.2	+0.006	
30	-6.5	-0.003	-8.7	-0.005	
40	9.8	+0.005	6.5	+0.003	
50	6.5	+0.003	-9.8	-0.005	

Band :	LTE Band 25 (16QAM)		Limit (ppm) :	2.5	
Temperature (°C)	BW 1.4MHz		BW 3MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	-10.2	-0.005	4.6	+0.002	PASS
-20	-6.8	-0.004	-9.2	-0.005	
-10	-7.9	-0.004	-11.2	-0.006	
0	-11.5	-0.006	-10.8	-0.006	
10	-16.0	-0.009	-8.7	-0.005	
20	-8.5	-0.005	-5.6	-0.003	
30	-8.1	-0.004	-5.4	-0.003	
40	-7.5	-0.004	-6.5	-0.003	
50	-9.2	-0.005	-6.8	-0.004	

Band :	LTE Band 25 (16QAM)		Limit (ppm) :	2.5	
Temperature (°C)	BW 5MHz		BW 10MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	-4.5	-0.002	-8.7	-0.005	PASS
-20	-5.8	-0.003	-9.8	-0.005	
-10	-11.5	-0.006	-5.4	-0.003	
0	-3.2	-0.002	-1.2	-0.001	
10	-3.1	-0.002	-3.5	-0.002	
20	4.9	+0.003	-8.7	-0.005	
30	8.0	+0.004	-6.8	-0.004	
40	8.0	+0.004	-7.5	-0.004	
50	-7.1	-0.004	-6.4	-0.003	

Band :	LTE Band 25 (16QAM)		Limit (ppm) :	2.5	
Temperature (°C)	BW 15MHz		BW 20MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	-8.4	-0.004	6.0	+0.003	PASS
-20	-5.4	-0.003	-7.0	-0.004	
-10	-1.2	-0.001	5.3	+0.003	
0	-3.5	-0.002	-8.7	-0.005	
10	-6.7	-0.004	-6.9	-0.004	
20	-8.1	-0.004	-8.5	-0.005	
30	-8.2	-0.004	8.0	+0.004	
40	7.5	+0.004	8.0	+0.004	
50	-5.7	-0.003	11.0	+0.006	

Band :	LTE Band 26 (QPSK)			Limit (ppm) :	2.5
Temperature (°C)	BW 1.4MHz		BW 3MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	5.5	+0.007	-7.0	-0.008	PASS
-20	-7.3	-0.009	-3.5	-0.004	
-10	-6.5	-0.008	-6.9	-0.008	
0	9.8	+0.012	-8.7	-0.010	
10	-8.7	-0.010	-9.8	-0.012	
20	-9.5	-0.011	11.2	+0.013	
30	6.5	+0.008	5.6	+0.007	
40	4.8	+0.006	6.8	+0.008	
50	-6.2	-0.007	7.5	+0.009	

Band :	LTE Band 26 (QPSK)			Limit (ppm) :	2.5
Temperature (°C)	BW 5MHz		BW 10MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	5.5	+0.007	-8.7	-0.010	PASS
-20	6.5	+0.008	-6.5	-0.008	
-10	7.8	+0.009	-7.8	-0.009	
0	-8.5	-0.010	-3.8	-0.005	
10	-10.2	-0.012	-5.7	-0.007	
20	2.8	+0.003	10.2	+0.012	
30	2.0	+0.002	5.8	+0.007	
40	-1.6	-0.002	7.6	+0.009	
50	-3.3	-0.004	-3.5	-0.004	

Band :	LTE Band 26 (QPSK)	Limit (ppm) :	2.5
Temperature (°C)	BW 15MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	
-30	-8.2	-0.010	PASS
-20	-6.4	-0.008	
-10	-7.2	-0.009	
0	-3.1	-0.004	
10	-5.1	-0.006	
20	10.8	+0.013	
30	4.8	+0.006	
40	8.6	+0.010	
50	-2.5	-0.003	

Band :	LTE Band 26 (16QAM)		Limit (ppm) :	2.5	
Temperature (°C)	BW 1.4MHz		BW 3MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	5.6	+0.007	-4.8	-0.006	PASS
-20	-9.8	-0.012	-9.1	-0.011	
-10	-5.6	-0.007	-5.6	-0.007	
0	-7.1	-0.008	-3.2	-0.004	
10	2.3	+0.003	-7.5	-0.009	
20	6.6	+0.008	-2.8	-0.003	
30	-8.0	-0.010	-9.1	-0.011	
40	-7.5	-0.009	-7.5	-0.009	
50	-6.9	-0.008	-3.2	-0.004	

Band :	LTE Band 26 (16QAM)			Limit (ppm) :	2.5
Temperature (°C)	BW 5MHz		BW 10MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	-5.2	-0.006	10.3	+0.012	PASS
-20	-2.6	-0.003	-3.2	-0.004	
-10	-7.5	-0.009	-6.5	-0.008	
0	-5.6	-0.007	-8.1	-0.010	
10	-7.8	-0.009	7.5	+0.009	
20	-11.5	-0.014	-11.0	-0.013	
30	-3.5	-0.004	-9.5	-0.011	
40	-7.5	-0.009	6.8	+0.008	
50	-8.0	-0.010	-8.7	-0.010	

Band :	LTE Band 26 (16QAM)	Limit (ppm) :	2.5
Temperature (°C)	BW 15MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	
-30	10.5	+0.013	PASS
-20	-3.2	-0.004	
-10	-6.4	-0.008	
0	-8.5	-0.010	
10	9.5	+0.011	
20	-12.0	-0.014	
30	-8.5	-0.010	
40	6.2	+0.007	
50	-8.6	-0.010	

Band :	LTE Band 41 (QPSK)			Limit (ppm) :	2.5
Temperature (°C)	BW 5MHz		BW 10MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	5.6	+0.002	5.6	+0.002	PASS
-20	6.2	+0.002	-9.8	-0.004	
-10	3.5	+0.001	7.5	+0.003	
0	5.4	+0.002	3.6	+0.001	
10	5.8	+0.002	-6.8	-0.003	
20	-9.8	-0.004	4.2	+0.002	
30	-6.5	-0.003	1.8	+0.001	
40	9.5	+0.004	5.6	+0.002	
50	8.5	+0.003	-9.8	-0.004	

Band :	LTE Band 41 (QPSK)			Limit (ppm) :	2.5
Temperature (°C)	BW 15MHz		BW 20MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	-8.5	-0.003	-8.5	-0.003	PASS
-20	-6.5	-0.003	6.6	+0.003	
-10	-3.5	-0.001	7.2	+0.003	
0	-6.7	-0.003	-9.1	-0.004	
10	-7.1	-0.003	8.1	+0.003	
20	-5.8	-0.002	11.2	+0.004	
30	-6.5	-0.003	-8.7	-0.003	
40	9.8	+0.004	6.5	+0.003	
50	6.5	+0.003	-9.8	-0.004	

Band :	LTE Band 41 (16QAM)		Limit (ppm) :	2.5	
Temperature (°C)	BW 5MHz		BW 10MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	-14.5	-0.006	-8.7	-0.003	PASS
-20	-6.9	-0.003	-9.8	-0.004	
-10	-5.4	-0.002	-5.4	-0.002	
0	-3.2	-0.001	-1.2	+0.000	
10	-6.5	-0.003	-3.5	-0.001	
20	-4.5	-0.002	-8.7	-0.003	
30	-6.9	-0.003	-6.8	-0.003	
40	-4.6	-0.002	-7.5	-0.003	
50	-7.1	-0.003	-6.4	-0.002	

Band :	LTE Band 41 (16QAM)		Limit (ppm) :	2.5	
Temperature (°C)	BW 15MHz		BW 20MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	-8.4	-0.003	6.0	+0.002	PASS
-20	-5.4	-0.002	-7.0	-0.003	
-10	-1.2	+0.000	5.3	+0.002	
0	-3.5	-0.001	-7.6	-0.003	
10	-6.7	-0.003	-3.1	-0.001	
20	-8.1	-0.003	4.9	+0.002	
30	-8.2	-0.003	8.0	+0.003	
40	7.5	+0.003	8.0	+0.003	
50	-5.7	-0.002	11.0	+0.004	

3.8.7 Test Result of Voltage Variation (FCC)

Band	Bandwidth	Voltage (Volt)	Freq. Dev. (Hz)	Deviation (ppm)	Limit (ppm)	Result
LTE Band 25 (QPSK)	1.4M	3.8	5.4	+0.003	2.5	PASS
		3.3	-6.8	-0.004		
		4.35	5.7	+0.003		
	3M	3.8	3.6	+0.002		
		3.3	5.8	+0.003		
		4.35	4.7	+0.003		
	5M	3.8	1.9	+0.001		
		3.3	-8.8	-0.005		
		4.35	-7.5	-0.004		
	10M	3.8	6.8	+0.004		
		3.3	-6.3	-0.003		
		4.35	-3.8	-0.002		
	15M	3.8	-9.6	-0.005		
		3.3	-3.6	-0.002		
		4.35	-6.4	-0.003		
	20M	3.8	-5.5	-0.003		
		3.3	6.0	+0.003		
		4.35	-7.0	-0.004		
LTE Band 25 (16QAM)	1.4M	3.8	-7.5	-0.004	2.5	PASS
		3.3	6.5	+0.004		
		4.35	-8.5	-0.005		
	3M	3.8	-21.6	-0.012		
		3.3	-4.0	-0.002		
		4.35	-8.0	-0.004		
	5M	3.8	-6.5	-0.004		
		3.3	-5.4	-0.003		
		4.35	-6.5	-0.004		
	10M	3.8	-5.2	-0.003		
		3.3	2.2	+0.001		
		4.35	6.5	+0.004		
	15M	3.8	4.5	+0.003		
		3.3	8.7	+0.005		
		4.35	-7.7	-0.004		
	20M	3.8	-9.5	-0.005		
		3.3	-6.5	-0.004		
		4.35	4.2	+0.002		

Band	Bandwidth	Voltage (Volt)	Freq. Dev. (Hz)	Deviation (ppm)	Limit (ppm)	Result
LTE Band 26 (QPSK)	1.4M	3.8	-8.5	-0.010	2.5	PASS
		3.3	-7.1	-0.008		
		4.35	-3.2	-0.004		
	3M	3.8	-6.5	-0.008		
		3.3	-6.9	-0.008		
		4.35	-7.1	-0.008		
	5M	3.8	-3.2	-0.004		
		3.3	4.7	+0.006		
		4.35	8.3	+0.010		
	10M	3.8	2.1	+0.003		
		3.3	3.2	+0.004		
		4.35	1.5	+0.002		
	15M	3.8	2.2	+0.003		
		3.3	3.1	+0.004		
		4.35	2.5	+0.003		
LTE Band 26 (16QAM)	1.4M	3.8	-8.5	-0.010	2.5	PASS
		3.3	-6.9	-0.008		
		4.35	-5.7	-0.007		
	3M	3.8	-5.8	-0.007		
		3.3	-8.2	-0.010		
		4.35	-6.5	-0.008		
	5M	3.8	-8.5	-0.010		
		3.3	-7.4	-0.009		
		4.35	-9.8	-0.012		
	10M	3.8	11.2	+0.013		
		3.3	3.5	+0.004		
		4.35	6.6	+0.008		
	15M	3.8	10.2	+0.012		
		3.3	3.1	+0.004		
		4.35	6.2	+0.007		

Band	Bandwidth	Voltage (Volt)	Freq. Dev. (Hz)	Deviation (ppm)	Limit (ppm)	Result
LTE Band 41 (QPSK)	5M	3.8	1.9	+0.001	2.5	PASS
		3.3	-8.8	-0.003		
		4.35	-7.5	-0.003		
	10M	3.8	6.8	+0.003		
		3.3	-6.3	-0.002		
		4.35	-3.8	-0.001		
	15M	3.8	-9.6	-0.004		
		3.3	-3.6	-0.001		
		4.35	-6.4	-0.002		
	20M	3.8	-5.5	-0.002		
		3.3	6.0	+0.002		
		4.35	-7.0	-0.003		
LTE Band 41 (16QAM)	5M	3.8	-4.5	-0.002	2.5	PASS
		3.3	-5.8	-0.002		
		4.35	-11.5	-0.004		
	10M	3.8	-8.5	-0.003		
		3.3	2.2	+0.001		
		4.35	6.5	+0.003		
	15M	3.8	4.5	+0.002		
		3.3	8.7	+0.003		
		4.35	-7.7	-0.003		
	20M	3.8	-9.5	-0.004		
		3.3	-6.5	-0.003		
		4.35	4.2	+0.002		

Remark:

1. Normal Voltage = 3.8V.
2. The manufacturer declared that the EUT could work properly between voltage 3.3V ~ 4.35V.

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSP40	100319	9kHz~40GHz	Dec. 28, 2013	Mar. 10, 2014~ Apr. 09, 2014	Dec. 27, 2014	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	30MHz~40GHz	Feb. 27, 2014	Mar. 10, 2014~ Apr. 09, 2014	Feb. 26, 2015	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Feb. 27, 2014	Mar. 10, 2014~ Apr. 09, 2014	Feb. 26, 2015	Conducted (TH01-KS)
Thermal Chamber	Ten Billion	TTC-B3S	TBN-960502	(-40~+150)	Dec. 10, 2013	Mar. 10, 2014~ Apr. 09, 2014	Dec. 09, 2014	Conducted (TH01-KS)
EMI Test Receiver	R&S	ESCI	100534	9kHz~3GHz	Nov. 05, 2013	Mar. 21, 2014~ Mar. 24, 2014	Nov. 04, 2014	Radiation (03CH01-KS)
Spectrum Analyzer	R&S	FSP30	101399	9kHz~30GHz	May 23, 2013	Mar. 21, 2014~ Mar. 24, 2014	May 22, 2014	Radiation (03CH01-KS)
Bilog Antenna	SCHAFFNER	CBL6112D	23182	25MHz~2GHz	Dec. 06, 2013	Mar. 21, 2014~ Mar. 24, 2014	Dec. 05, 2014	Radiation (03CH01-KS)
Double Ridge Horn Antenna	EMCO	3117	00075959	1GHz~18GHz	Dec. 06, 2013	Mar. 21, 2014~ Mar. 24, 2014	Dec. 05, 2014	Radiation (03CH01-KS)
SHF-EHF Horn	Schwarzbeck	BBHA 9170	BBHA17024 9	15GHz~40GHz	Nov. 22, 2013	Mar. 21, 2014~ Mar. 24, 2014	Nov. 21, 2014	Radiation (03CH01-KS)
Active Horn Antenna	com-power	AHA-118	701030	1GHz~18GHz	Nov. 18, 2013	Mar. 21, 2014~ Mar. 24, 2014	Nov. 17, 2014	Radiation (03CH01-KS)
Amplifier	com-power	PA-103A	161069	1MHz~1GHz	May 23, 2013	Mar. 21, 2014~ Mar. 24, 2014	May 22, 2014	Radiation (03CH01-KS)
Amplifier	Agilent	8449B	3008A02370	1GHz~26.5GHz	Dec. 28, 2013	Mar. 21, 2014~ Mar. 24, 2014	Dec. 27, 2014	Radiation (03CH01-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	Mar. 21, 2014~ Mar. 24, 2014	NCR	Radiation (03CH01-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	Mar. 21, 2014~ Mar. 24, 2014	NCR	Radiation (03CH01-KS)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSP 7	100819	9kHz~7GHz	May 23, 2013	Mar. 19, 2014~ Apr. 04, 2014	May 22, 2014	ERP/EIRP (OTA01-KS)
Switch Control Manframe	Agilent	3499A	MY42005452	N/A	N/A	Mar. 19, 2014~ Apr. 04, 2014	N/A	ERP/EIRP (OTA01-KS)
Dual 1-to-6(4) MW MUX	Agilent	N2276A	MY42000841	N/A	N/A	Mar. 19, 2014~ Apr. 04, 2014	N/A	ERP/EIRP (OTA01-KS)
Microwave Switch	Agilent	44476A	MY42002573	N/A	N/A	Mar. 19, 2014~ Apr. 04, 2014	N/A	ERP/EIRP (OTA01-KS)
Microwave Switch	Agilent	44476A	MY42002586	N/A	N/A	Mar. 19, 2014~ Apr. 04, 2014	N/A	ERP/EIRP (OTA01-KS)
Diagonal Dual Polarized Horn	ETS-Lindgren	3164-04	00066993	700MHz~6GHz	N/A	Mar. 19, 2014~ Apr. 04, 2014	N/A	ERP/EIRP (OTA01-KS)
Multi-Devices Controller	ETS-Lindgren	2090-OPT1	00066604	N/A	N/A	Mar. 19, 2014~ Apr. 04, 2014	N/A	ERP/EIRP (OTA01-KS)
Conical Log Spiral (Small)	ETS-Lindgren	3102	00066951	1~10GHz	N/A	Mar. 19, 2014~ Apr. 04, 2014	N/A	ERP/EIRP (OTA01-KS)
Turn Table	ETS-Lindgren	2088	N/A	Resolution : 0.1degree	N/A	Mar. 19, 2014~ Apr. 04, 2014	N/A	ERP/EIRP (OTA01-KS)
Limiting Amplifier	ETS-lindgren	109643	920326	10MHz~2.5GHz	N/A	Mar. 19, 2014~ Apr. 04, 2014	N/A	ERP/EIRP (OTA01-KS)
EMQuest	ETS-Lindgren	EMQ-100	1125	N/A	N/A	Mar. 19, 2014~ Apr. 04, 2014	N/A	ERP/EIRP (OTA01-KS)
Medium Duty Holder	ETS-Lindgren	2015	N/A	N/A	N/A	Mar. 19, 2014~ Apr. 04, 2014	N/A	ERP/EIRP (OTA01-KS)

5 Uncertainty of Evaluation

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.54
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