

FCC PART 22H, PART 24E
FCC PART 27
MEASUREMENT AND TEST REPORT

For

POSH Mobile Limited

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FCC ID: 2AG8KL600

Report Type: Original Report	Product Type: Memo Pro LTE
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Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Dongguan).

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The POSH Mobile Limited's product, model number: L600A(FCC ID: 2AG8KL600) (the "EUT") in this report was a Memo Pro LTE , which was measured approximately: 161 mm (L) x 86 mm (W) x 80 mm (H), rated input voltage: DC 3.8V rechargeable Li-ion battery or DC5V from adapter.

Adapter information:

PART NO.: K-T100502000U

MODEL: AC 100~240V, 50-60Hz, 0.35A Max

INPUT: 100-240V ~ 50/60Hz 0.3A

OUTPUT: DC 5.0V, 2000mA

Note: The series product, model L600, L600A, L600B, L600C are electrically identical, the difference between them just is the model name, we selected L600A for fully testing, the details was explained in the declaration letter.

All measurement and test data in this report was gathered from production sample serial number: 160615001 (Assigned by BACL, Dongguan). The EUT was received on 2016-06-17.

Objective

This report is prepared on behalf of POSH Mobile Limited in accordance with: Part 2-Subpart J, Part 22-Subpart H, Part 24-Subpart E and part 27 of the Federal Communications Commission's rules.

The objective is to determine compliance with FCC rules for output power, modulation characteristic, occupied bandwidth, spurious emissions at antenna terminal, spurious radiated emission, frequency stability and band edge.

Related Submittal(s)/Grant(s)

FCC Part 15B JBP submissions with FCC ID: 2AG8KL600

FCC Part 15C DSS submissions with FCC ID: 2AG8KL600

FCC Part 15C DTS submissions with FCC ID: 2AG8KL600

Test Methodology

All tests and measurements indicated in this document were performed in accordance with the Code of Federal Regulations Title 47 Part 2, Sub-part J as well as the following parts:

Part 22 Subpart H - Public Mobile Services

Part 24 Subpart E - Personal Communication Services

Part 27 – Miscellaneous wireless communications services

Applicable Standards: TIA/EIA 603-D-2010.

All radiated and conducted emissions measurements were performed at Bay Area Compliance Laboratories Corp.(Dongguan).

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.69 Pulongcun, Puxinhu Industrial Zone, Tangxia, Dongguan, Guangdong, China

Test site at Bay Area Compliance Laboratories Corp. (Dongguan) has been fully described in reports submitted to the Federal Communications Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on February 06, 2015.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 273710. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

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SYSTEM TEST CONFIGURATION

Justification

The EUT was configured for testing according to TIA/EIA-603-D-2010.

The test items were performed with the EUT operating at testing mode.

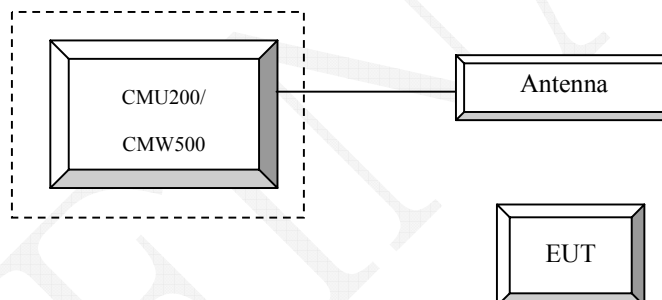
Equipment Modifications

No modification was made to the EUT.

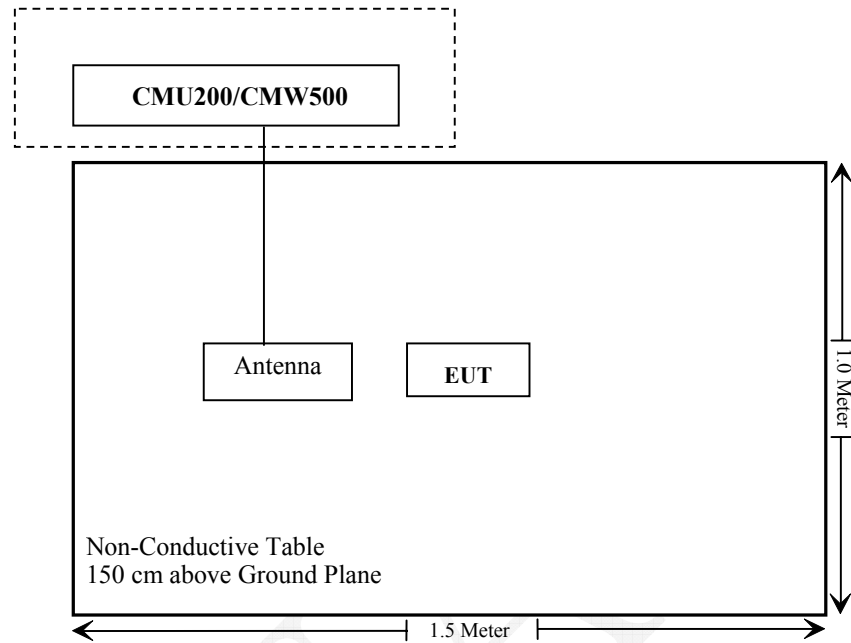
Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
R&S	Universal Radio Communication Tester	CMU200	109038
R&S	Wideband Radio Communication Tester	CMW500	106891
N/A	ANTENNA	N/A	N/A

Configuration of Test Setup



Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§1.1310, §2.1093	RF Exposure	Compliance
§2.1046; § 22.913 (a); § 24.232 (c); §27.50	RF Output Power	Compliance
§ 2.1047	Modulation Characteristics	Not Applicable
§ 2.1049; § 22.905 § 22.917; § 24.238; §27.53	Occupied Bandwidth	Compliance
§ 2.1051, § 22.917 (a); § 24.238 (a); §27.53	Spurious Emissions at Antenna Terminal	Compliance
§ 2.1053 § 22.917 (a); § 24.238 (a); §27.53	Spurious Radiation Emissions	Compliance
§ 22.917 (a); § 24.238 (a); §27.53	Out of band emission, Band Edge	Compliance
§ 2.1055 § 22.355; § 24.235; §27.54	Frequency stability vs. temperature Frequency stability vs. voltage	Compliance

FCC §1.1310 & §2.1093- RF EXPOSURE

Applicable Standard

FCC§1.1310 and §2.1093.

Test Result

Compliant, please refer to the SAR report: RDG160615001-20.

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FCC §2.1047 - MODULATION CHARACTERISTIC

According to FCC § 2.1047(d), Part 22H & 24E, Part 27 there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.

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FCC § 2.1046, § 22.913 (a) & § 24.232 (c) & § 27.50 - RF OUTPUT POWER**Applicable Standard**

According to FCC §2.1046 and §22.913 (a), the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

According to FCC §2.1046 and §24.232 (C), mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications..

According to FCC §2.1046 and §27.50 (d), (4) Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP. Fixed stations operating in the 1710-1755 MHz band are limited to a maximum antenna height of 10 meters above ground. Mobile and portable stations operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.

According to §24.232 (d) Power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with paragraph (e) of this section. In both instances, equipment employed must be authorized in accordance with the provisions of §24.51. 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.

Test Procedure**GSM/GPRS/EGPRS**

Function: Menu select > GSM Mobile Station > GSM 850/1900

Press Connection control to choose the different menus

Press RESET > choose all the reset all settings

Connection Press Signal Off to turn off the signal and change settings

Network Support > GSM + GPRS or GSM + EGSM

Main Service > Packet Data

Service selection > Test Mode A – Auto Slot Config. off

MS Signal Press Slot Config Bottom on the right twice to select and change the number of time slots and power setting

> Slot configuration > Uplink/Gamma

> 33 dBm for GPRS 850

> 30 dBm for GPRS 1900

> 27 dBm for EGPRS 850

> 26 dBm for EGPRS 1900

BS Signal Enter the same channel number for TCH channel (test channel) and BCCH channel

Frequency Offset > + 0 Hz

Mode > BCCH and TCH

BCCH Level > -85 dBm (May need to adjust if link is not stable)

BCCH Channel > choose desire test channel [Enter the same channel number for TCH channel (test channel) and BCCH channel]

Channel Type > Off

P0 > 4 dB
 Slot Config > Unchanged (if already set under MS signal)
 TCH > choose desired test channel
 Hopping > Off
 Main Timeslot > 3
 Network Coding Scheme > CS4 (GPRS) and MCS5 (EGPRS)

Bit Stream > 2E9-1 PSR Bit Stream
 AF/RF Enter appropriate offsets for Ext. Att. Output and Ext. Att. Input
 Connection Press Signal on to turn on the signal and change settings

WCDMA-Release 99

The following tests were conducted according to the test requirements outlines in section 5.2 of the 3GPP TS34.121-1 specification. The EUT has a nominal maximum output power of 24dBm (+1.7/-3.7).

WCDMA General Settings	Loopback Mode	Test Mode 1
	Rel99 RMC	12.2kbps RMC
	Power Control Algorithm	Algorithm2
	β_c / β_d	8/15

WCDMA HSDPA

The following tests were conducted according to the test requirements outlines in section 5.2 of the 3GPP TS34.121-1 specification.

	Mode	HSDPA	HSDPA	HSDPA	HSDPA
	Subset	1	2	3	4
WCDMA General Settings	Loopback Mode	Test Mode 1			
	Rel99 RMC	12.2kbps RMC			
	HSDPA FRC	H-Set1			
	Power Control Algorithm	Algorithm2			
	β_c	2/15	12/15	15/15	15/15
	β_d	15/15	15/15	8/15	4/15
	β_d (SF)	64			
	β_c / β_d	2/15	12/15	15/8	15/4
	β_{hs}	4/15	24/15	30/15	30/15
	MPR(dB)	0	0	0.5	0.5
HSDPA Specific Settings	DACK	8			
	DNAK	8			
	DCQI	8			
	Ack-Nack repetition factor	3			
	CQI Feedback	4ms			
	CQI Repetition Factor	2			
	$A_{hs} = \beta_{hs} / \beta_c$	30/15			

WCDMA HSUPA

The following tests were conducted according to the test requirements outlines in section 5.2 of the 3GPP TS34.121-1 specification.

	Mode	HSUPA	HSUPA	HSUPA	HSUPA	HSUPA
	Subset	1	2	3	4	5
WCDMA A General Settings	Loopback Mode	Test Mode 1				
	Rel99 RMC	12.2kbps RMC				
	HSDPA FRC	H-Set1				
	HSUPA Test	HSUPA Loopback				
	Power Control Algorithm	Algorithm2				
	β_c	11/15	6/15	15/15	2/15	15/15
	β_d	15/15	15/15	9/15	15/15	0
	β_{ec}	209/225	12/15	30/15	2/15	5/15
	β_c/β_d	11/15	6/15	15/9	2/15	-
	β_{hs}	22/15	12/15	30/15	4/15	5/15
	CM(dB)	1.0	3.0	2.0	3.0	1.0
	MPR(dB)	0	2	1	2	0
HSDPA Specific Settings	DACK	8				
	DNAK	8				
	DCQI	8				
	Ack-Nack repetition factor	3				
	CQI Feedback	4ms				
	CQI Repetition Factor	2				
	$A_{hs}=\beta_{hs}/\beta_c$	30/15				
HSUPA Specific Settings	DE-DPCCH	6	8	8	5	7
	DHARQ	0	0	0	0	0
	AG Index	20	12	15	17	21
	ETFCI	75	67	92	71	81
	Associated Max UL Data Rate kbps	242.1	174.9	482.8	205.8	308.9
	Reference E_FCI	E-TFCI 11 E E-TFCI PO 4 E-TFCI 67 E-TFCI PO 18 E-TFCI 71 E-TFCI PO23 E-TFCI 75 E-TFCI PO26 E-TFCI 81 E-TFCI PO 27	E-TFCI 11 E-TFCI PO4 E-TFCI 92 E-TFCI PO 18		E-TFCI 11 E E-TFCI PO 4 E-TFCI 67 E-TFCI PO 18 E-TFCI 71 E-TFCI PO23 E-TFCI 75 E-TFCI PO26 E-TFCI 81 E-TFCI PO 27	

HSPA+

The following tests were conducted according to the test requirements in Table C.11.1.4 of 3GPP TS 34.121-1

Sub-test	β_c (Note 3)	β_d	β_{HS} (Note 1)	β_{ec}	β_{ed} (2xSF2) (Note 4)	β_{ed} (2xSF4) (Note 4)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 4)	E-TFCI (Note 5)	E-TFCI (boost)
1	1	0	30/15	30/15	β_{ed1} : 30/15 β_{ed2} : 30/15	β_{ed3} : 24/15 β_{ed4} : 24/15	3.5	2.5	14	105	105

Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$.

Note 2: CM = 3.5 and the MPR is based on the relative CM difference, MPR = MAX(CM-1,0).

Note 3: DPDCH is not configured, therefore the β_c is set to 1 and $\beta_d = 0$ by default.

Note 4: β_{ed} can not be set directly; it is set by Absolute Grant Value.

Note 5: All the sub-tests require the UE to transmit 2SF2+2SF4 16QAM EDCH and they apply for UE using E-DPDCH category 7. E-DCH TTI is set to 2ms TTI and E-DCH table index = 2. To support these E-DCH configurations DPDCH is not allocated. The UE is signalled to use the extrapolation algorithm.

DC-HSDPA

The following tests were conducted according to the test requirements in Table C.8.1.12 of 3GPP TS 34.121-1

Table C.8.1.12: Fixed Reference Channel H-Set 12

Parameter	Unit	Value
Nominal Avg. Inf. Bit Rate	kbps	60
Inter-TTI Distance	TTI's	1
Number of HARQ Processes	Processes	6
Information Bit Payload (N_{INF})	Bits	120
Number Code Blocks	Blocks	1
Binary Channel Bits Per TTI	Bits	960
Total Available SML's in UE	SML's	19200
Number of SML's per HARQ Proc.	SML's	3200
Coding Rate		0.15
Number of Physical Channel Codes	Codes	1
Modulation		QPSK
Note 1: The RMC is intended to be used for DC-HSDPA mode and both cells shall transmit with identical parameters as listed in the table.		
Note 2: Maximum number of transmission is limited to 1, i.e., retransmission is not allowed. The redundancy and constellation version 0 shall be used.		

LTE:

The following tests were conducted according to the test requirements in 3GPP TS36.101

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS36.101 specification.

UE Power Class: 3 (23 +/- 2dBm). The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1 of the 3GPP TS36.101.

Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 3

Modulation	Channel bandwidth / Transmission bandwidth (RB)						MPR (dB)
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2

The allowed A-MPR values specified below in Table 6.2.4-1 of 3GPP TS36.101 are in addition to the allowed MPR requirements. All the measurements below were performed with A-MPR disabled, by using Network Signaling Value of "NS_01".

Table 6.2.4-1: Additional Maximum Power Reduction (A-MPR)

Network Signalling value	Requirements (sub-clause)	E-UTRA Band	Channel bandwidth (MHz)	Resources Blocks (N_{RB})	A-MPR (dB)
NS_01	6.6.2.1.1	Table 5.5-1	1.4, 3, 5, 10, 15, 20	Table 5.6-1	NA
NS_03	6.6.2.2.1	2, 4, 10, 23, 25, 35, 36	3	>5	≤ 1
			5	>6	≤ 1
			10	>6	≤ 1
			15	>8	≤ 1
			20	>10	≤ 1
NS_04	6.6.2.2.2	41	5	>6	≤ 1
			10, 15, 20	See Table 6.2.4-4	
NS_05	6.6.3.3.1	1	10, 15, 20	≥ 50	≤ 1
NS_06	6.6.2.2.3	12, 13, 14, 17	1.4, 3, 5, 10	Table 5.6-1	n/a
NS_07	6.6.2.2.3	13	10	Table 6.2.4-2	Table 6.2.4-2
	6.6.3.3.2				
NS_08	6.6.3.3.3	19	10, 15	> 44	≤ 3
NS_09	6.6.3.3.4	21	10, 15	> 40	≤ 1
				> 55	≤ 2
NS_10		20	15, 20	Table 6.2.4-3	Table 6.2.4-3
NS_11	6.6.2.2.1	23 ¹	1.4, 3, 5, 10	Table 6.2.4-5	Table 6.2.4-5
..					
NS_32	-	-	-	-	-

Note 1: Applies to the lower block of Band 23, i.e. a carrier placed in the 2000-2010 MHz region.

Radiated method:

ANSI/TIA 603-D section 2.2.17

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCI	100224	2015-08-03	2016-08-02
Sunol Sciences	Antenna	JB3	A060611-3	2014-11-06	2017-11-05
HP	Amplifier	8447E	2434A02181	2015-09-01	2016-09-01
R&S	Spectrum Analyzer	FSEM	831259/019	2015-07-28	2016-07-27
ETS LINDGREN	Horn Antenna	3115	000 527 35	2015-09-06	2018-09-06
Mini-Circuit	Amplifier	ZVA-213-S+	054201245	2016-02-19	2017-02-19
Giga	Signal Generator	1026	320408	2015-11-23	2016-11-22
EMCO	Adjustable Dipole Antenna	3121C	9109-753	N/A	N/A
TDK RF	Horn Antenna	HRN-0118	130 084	2015-09-06	2018-09-06
N/A	Coaxial Cable	14m	N/A	2016-05-06	2017-05-06
N/A	Coaxial Cable	8m	N/A	2016-05-06	2017-05-06
N/A	Coaxial Cable	0.1m	N/A	2016-05-06	2017-05-06
E-Microwave	DC Blocking	EMDCB-00036	0E01201047	2016-05-06	2017-05-06
E-Microwave	Attenuator	EMCA10-5RN	OE01203239	2016-05-08	2017-05-08
Pasternack	RF Coaxial Cable	RF-01	N/A	2016-05-06	2017-05-06
Pasternack	RF Coaxial Cable	RF-02	N/A	2016-05-06	2017-05-06
N/A	Two-way Splitter	ODP-1-6-2S	OE0120142	2016-05-06	2017-05-06

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data**Environmental Conditions**

Temperature:	26.3 ~ 27.2 °C
Relative Humidity:	56 ~ 57%
ATM Pressure:	99.9 ~ 100 kPa

The testing was performed by Lion Xiao from 2016-06-13 to 2016-06-14.

Conducted Power**Cellular Band (Part 22H) & PCS Band (Part 24E)**

Band	Channel No.	Peak Output Power (dBm)								
		GSM	GPRS 1 TX Slot	GPRS 2 TX Slot	GPRS 3 TX Slot	GPRS 4 TX Slot	EDGE 1 TX Slot	EDGE 2 TX Slot	EDGE 3 TX Slot	EDGE 4 TX Slot
Cellular	128	32.80	32.61	31.25	30.08	28.73	26.41	25.29	24.23	24.06
	190	32.75	32.64	31.33	30.13	28.95	26.67	25.53	24.48	23.23
	251	32.83	32.71	31.43	30.21	29.07	26.24	25.08	23.95	22.80
PCS	512	30.36	30.11	29.89	28.65	27.42	25.52	24.75	22.84	21.62
	661	29.43	29.27	29.05	27.90	26.78	25.58	24.80	23.09	22.08
	810	29.48	29.01	28.81	27.69	26.43	25.56	24.87	23.17	22.11

WCDMA Band II (Part 24E)

Mode	3GPP Sub Test	Average Output Power (dBm)					
		Low Channel (Ave. Power)	Low Channel (PAR)	Middle Channel (Ave. Power)	Middle Channel (PAR)	High Channel (Ave. Power)	High Channel (PAR)
Rel 99 (QPSK)	1	22.59	2.32	22.57	2.60	22.62	2.56
HSDPA (QPSK)	1	21.53	2.30	21.46	2.63	21.59	2.50
	2	21.59	2.27	21.41	2.66	21.50	2.64
	3	21.55	2.29	21.49	2.52	21.55	2.53
	4	21.52	2.22	21.51	2.51	21.51	2.60
HSUPA (QPSK)	1	21.54	2.27	21.47	2.53	21.37	2.50
	2	21.48	2.20	21.50	2.64	21.32	2.65
	3	21.50	2.38	21.42	2.52	21.41	2.61
	4	21.41	2.34	21.48	2.70	21.45	2.53
	5	21.47	2.26	21.45	2.62	21.33	2.53
DC-HSDPA (QPSK)	1	21.43	2.39	21.33	2.72	21.29	2.61
	2	21.48	2.25	21.30	2.52	21.25	2.58
	3	21.40	2.27	21.39	2.75	21.20	2.47
	4	21.32	2.32	21.35	2.68	21.27	2.49
HSPA+ (16QAM)	1	21.37	2.26	21.21	2.72	21.15	2.45

WCDMA Band IV(Part 27)

Mode	3GPP Sub Test	Average Output Power (dBm)					
		Low Channel (Ave. Power)	Low Channel (PAR)	Middle Channel (Ave. Power)	Middle Channel (PAR)	High Channel (Ave. Power)	High Channel (PAR)
Rel 99 (QPSK)	1	23.37	2.20	23.24	2.20	23.39	2.40
HSDPA (QPSK)	1	22.42	2.14	22.21	2.26	22.35	2.46
	2	22.40	2.12	22.16	2.32	22.30	2.41
	3	22.32	2.09	22.20	2.11	22.37	2.33
	4	22.37	2.11	22.19	2.26	22.34	2.29
HSUPA (QPSK)	1	22.44	2.18	22.24	2.17	22.38	2.47
	2	22.39	2.30	22.18	2.31	22.30	2.30
	3	22.30	2.25	22.22	2.08	22.25	2.42
	4	22.35	2.23	22.15	2.20	22.31	2.39
DC-HSDPA (QPSK)	1	22.32	2.15	22.10	2.17	22.34	2.31
	2	22.25	2.17	22.03	2.25	22.28	2.44
	3	22.21	2.13	22.00	2.31	22.20	2.43
	4	22.28	2.17	22.07	2.17	22.26	2.38
	5	22.23	2.14	22.05	2.11	22.21	2.28
HSPA+ (16QAM)	1	22.16	2.30	21.98	2.27	22.17	2.31

WCDMA Band V(Part 22H)

Mode	3GPP Sub Test	Average Output Power (dBm)					
		Low Channel (Ave. Power)	Low Channel (PAR)	Middle Channel (Ave. Power)	Middle Channel (PAR)	High Channel (Ave. Power)	High Channel (PAR)
Rel 99 (QPSK)	1	22.30	3.08	22.50	2.96	22.56	3.08
HSDPA (QPSK)	1	21.19	2.97	21.35	2.93	21.41	2.96
	2	21.12	3.10	21.30	2.98	21.34	3.04
	3	21.17	3.01	21.34	2.90	21.30	3.13
	4	21.10	3.12	21.39	2.96	21.38	3.18
HSUPA (QPSK)	1	21.16	3.13	21.25	3.04	21.35	3.05
	2	21.13	2.96	21.20	2.91	21.31	3.02
	3	21.08	3.06	21.28	3.04	21.36	2.97
	4	21.01	2.98	21.24	2.85	21.30	3.12
DC-HSDPA (QPSK)	1	21.09	3.15	21.19	3.03	21.27	3.19
	2	20.92	3.00	21.16	3.07	21.19	3.17
	3	20.98	2.96	21.10	2.88	21.23	3.14
	4	20.93	3.16	21.17	2.90	21.16	3.09
	5	20.97	3.09	21.15	2.85	21.11	3.06
HSPA+ (16QAM)	1	20.81	3.14	21.09	2.95	21.05	3.12

LTE Band II (PART 24)

Channel Bandwidth	Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4MHz	QPSK	1#0	22.41	22.24	22.22
		1#3	22.55	22.36	22.49
		1#5	22.37	22.36	22.48
		3#0	22.30	22.08	21.83
		3#1	22.30	22.11	21.80
		3#3	22.16	22.19	21.84
		6#0	21.34	21.06	21.08
	16QAM	1#0	22.51	22.00	22.04
		1#3	22.58	22.06	21.85
		1#5	22.41	22.05	21.99
		3#0	21.69	21.56	21.45
		3#1	21.71	21.51	21.67
		3#3	21.64	21.47	21.63
		6#0	21.02	20.52	20.85

Channel Bandwidth	Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
3 MHz	QPSK	1#0	22.61	22.33	22.32
		1#7	22.55	22.26	22.15
		1#14	22.57	22.45	22.00
		8#0	21.89	21.99	21.88
		8#4	21.88	22.12	21.76
		8#7	21.89	21.85	21.74
		15#0	21.42	21.18	21.08
	16QAM	1#0	22.35	21.93	21.76
		1#7	22.42	21.86	21.63
		1#14	22.38	21.76	21.62
		8#0	21.74	21.47	21.20
		8#4	21.70	21.34	21.17
		8#7	21.69	21.41	21.40
		15#0	20.79	20.70	20.78
5 MHz	QPSK	1#0	22.66	22.29	22.11
		1#12	22.51	22.08	22.08
		1#24	22.33	20.21	22.05
		12#0	21.71	21.57	21.51
		12#6	21.80	21.49	21.51
		12#11	21.60	21.34	21.56
		25#0	21.41	21.09	20.73
	16QAM	1#0	21.75	21.61	21.71
		1#12	21.74	21.58	21.88
		1#24	21.70	21.67	21.70
		12#0	21.57	21.46	21.11
		12#6	21.47	21.41	21.13
		12#11	21.45	21.38	20.92
		25#0	20.80	20.65	20.56
10 MHz	QPSK	1#0	22.53	22.19	22.10
		1#24	22.64	22.16	22.14
		1#49	22.46	22.23	22.15
		25#0	21.81	21.46	21.61
		25#12	21.67	21.47	21.60
		25#24	21.67	21.49	21.48
		50#0	21.12	20.73	20.84
	16QAM	1#0	22.04	21.71	21.61
		1#24	22.16	21.57	21.69
		1#49	21.05	21.78	21.53
		25#0	21.31	21.27	20.84
		25#12	21.35	21.38	21.07
		25#24	21.36	21.31	21.01
		50#0	20.93	20.49	20.24

Channel Bandwidth	Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
15 MHz	QPSK	1#0	22.46	22.23	22.24
		1#37	22.24	22.41	22.20
		1#74	22.36	22.30	22.41
		36#0	21.49	21.89	21.68
		36#17	21.64	21.73	21.80
		36#35	21.64	21.87	21.83
		75#0	21.17	20.89	20.62
	16QAM	1#0	21.96	21.64	21.67
		1#37	21.95	21.78	21.47
		1#74	21.95	21.61	21.46
		36#0	21.51	21.19	20.80
		36#17	21.55	21.03	20.85
		36#35	21.38	21.21	20.75
		75#0	20.75	20.40	19.95
20 MHz	QPSK	1#0	22.28	21.98	21.97
		1#49	22.30	22.03	21.96
		1#99	22.32	22.08	22.23
		50#0	21.80	21.78	21.33
		50#24	21.56	21.34	21.80
		50#49	21.71	21.52	21.78
		100#0	20.80	20.77	20.82
	16QAM	1#0	21.67	21.78	21.76
		1#49	21.61	21.61	21.72
		1#99	21.59	21.73	21.65
		50#0	21.16	21.22	21.02
		50#24	21.16	21.15	20.88
		50#49	21.09	21.06	20.99
		100#0	20.68	20.57	20.30

LTE Band IV (PART 27)

Channel Bandwidth	Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4MHz	QPSK	1#0	22.40	22.13	22.56
		1#3	22.23	21.99	22.48
		1#5	22.51	22.07	22.35
		3#0	21.87	21.46	21.89
		3#1	21.82	21.29	21.70
		3#3	21.74	21.36	21.71
		6#0	21.22	20.62	21.13
	16QAM	1#0	22.00	21.49	21.91
		1#3	21.89	21.66	21.96
		1#5	21.98	21.64	22.05
		3#0	21.41	21.06	21.29
		3#1	21.38	20.98	21.32
		3#3	21.47	20.95	21.35
		6#0	20.69	20.46	20.58
3 MHz	QPSK	1#0	22.20	21.81	22.28
		1#7	22.37	21.82	22.18
		1#14	22.30	21.76	22.36
		8#0	21.74	21.35	21.58
		8#4	21.80	21.30	21.49
		8#7	21.75	21.41	21.50
		15#0	21.05	20.60	21.12
	16QAM	1#0	21.79	21.42	21.76
		1#7	21.98	21.35	22.00
		1#14	21.85	21.46	21.99
		8#0	21.10	20.64	21.24
		8#4	21.11	20.76	21.28
		8#7	21.10	20.82	21.29
		15#0	19.48	20.32	20.53

Channel Bandwidth	Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5 MHz	QPSK	1#0	22.11	21.70	22.40
		1#12	22.10	21.70	22.29
		1#24	22.08	21.75	22.37
		12#0	21.39	21.33	21.65
		12#6	22.41	21.30	21.68
		12#11	21.37	21.29	21.49
		25#0	20.50	20.56	20.99
	16QAM	1#0	21.75	21.25	21.79
		1#12	21.78	21.29	21.58
		1#24	21.79	21.43	21.63
		12#0	21.16	20.72	21.06
		12#6	21.29	20.77	21.11
		12#11	21.21	20.67	21.09
		25#0	20.46	20.35	20.51
10 MHz	QPSK	1#0	21.88	21.47	21.96
		1#24	21.90	21.69	22.07
		1#49	21.83	21.48	22.04
		25#0	21.47	21.11	21.30
		25#12	21.39	21.08	21.26
		25#24	21.41	20.86	21.26
		50#0	20.66	20.46	20.80
	16QAM	1#0	21.73	21.22	21.57
		1#24	21.80	21.48	21.49
		1#49	21.73	21.38	21.55
		25#0	20.98	20.67	21.06
		25#12	20.97	20.79	21.09
		25#24	21.15	20.87	21.19
		50#0	20.34	20.20	20.44

Channel Bandwidth	Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
15 MHz	QPSK	1#0	22.20	21.71	21.98
		1#37	21.98	21.46	21.88
		1#74	22.01	21.51	21.83
		36#0	21.46	21.16	21.33
		36#17	21.40	20.99	21.22
		36#35	21.50	21.02	21.36
		75#0	20.67	20.38	20.64
	16QAM	1#0	21.52	21.35	21.58
		1#37	21.42	21.36	21.57
		1#74	21.56	21.30	21.47
		36#0	20.98	20.93	20.92
		36#17	20.89	20.88	20.97
		36#35	20.75	21.00	21.09
		75#0	20.36	20.10	20.41
20 MHz	QPSK	1#0	22.20	22.10	22.08
		1#49	22.21	22.06	21.93
		1#99	22.07	22.26	22.08
		50#0	21.59	21.66	21.75
		50#24	21.73	21.61	21.34
		50#49	21.75	21.50	21.34
		100#0	21.17	20.65	20.93
	16QAM	1#0	21.57	21.37	21.50
		1#49	21.46	21.24	21.53
		1#99	21.45	21.31	21.54
		50#0	20.69	20.85	20.92
		50#24	20.64	20.68	20.83
		50#49	20.70	20.71	20.85
		100#0	20.19	20.27	20.38

LTE Band V (PART 22)

Channel Bandwidth	Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4MHz	QPSK	1#0	22.64	22.41	22.47
		1#3	22.50	22.29	22.61
		1#5	22.60	22.34	22.35
		3#0	22.26	22.17	22.20
		3#1	22.33	22.04	22.30
		3#3	22.27	22.17	22.05
		6#0	21.87	21.89	21.35
	16QAM	1#0	22.03	21.85	21.81
		1#3	21.87	22.00	21.73
		1#5	21.82	21.79	21.98
		3#0	21.44	21.55	21.51
		3#1	21.60	21.63	21.46
		3#3	21.71	21.82	21.51
		6#0	20.79	21.20	20.92
3 MHz	QPSK	1#0	22.62	22.88	22.52
		1#7	22.84	23.00	22.55
		1#14	22.84	22.74	22.69
		8#0	22.41	22.41	22.24
		8#4	22.30	22.33	22.25
		8#7	22.32	22.56	22.18
		15#0	21.98	22.01	21.82
	16QAM	1#0	21.94	22.25	21.86
		1#7	21.96	22.18	21.90
		1#14	21.98	22.06	21.75
		8#0	21.65	21.64	21.24
		8#4	21.50	21.78	21.35
		8#7	21.56	21.82	21.31
		15#0	21.02	21.26	21.07

Channel Bandwidth	Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5 MHz	QPSK	1#0	22.86	22.85	22.75
		1#12	22.97	22.68	22.73
		1#24	22.79	22.85	22.89
		12#0	22.37	22.62	22.49
		12#6	22.29	22.54	22.25
		12#11	22.34	22.69	22.41
		25#0	21.78	21.69	21.48
	16QAM	1#0	22.15	22.24	21.79
		1#12	21.86	22.12	21.73
		1#24	22.07	22.14	21.73
		12#0	21.51	21.90	21.41
		12#6	21.54	21.83	21.34
		12#11	21.52	21.81	21.34
		25#0	21.05	21.14	20.88
10 MHz	QPSK	1#0	22.59	22.97	22.69
		1#24	22.70	22.91	22.67
		1#49	22.69	22.83	22.64
		25#0	22.33	22.55	22.18
		25#12	22.38	22.57	21.97
		25#24	22.22	22.57	21.98
		50#0	21.58	21.95	21.47
	16QAM	1#0	22.18	22.35	21.77
		1#24	22.23	22.38	21.81
		1#49	22.16	22.30	21.80
		25#0	21.63	21.97	21.47
		25#12	21.58	22.01	21.56
		25#24	21.79	21.83	21.33
		50#0	20.75	21.08	20.79

LTE Band VII (PART 27)

Channel Bandwidth	Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5 MHz	QPSK	1#0	22.58	22.44	22.15
		1#12	22.53	22.56	22.12
		1#24	22.45	22.50	22.12
		12#0	21.75	21.76	21.47
		12#6	21.74	21.81	21.44
		12#11	19.73	21.77	21.55
		25#0	20.94	21.44	21.20
	16QAM	1#0	21.63	21.84	21.90
		1#12	21.60	21.89	21.73
		1#24	21.74	21.96	21.76
		12#0	21.15	21.45	20.97
		12#6	21.04	21.35	20.86
		12#11	21.17	21.33	21.04
		25#0	20.63	20.82	20.38
10 MHz	QPSK	1#0	22.60	22.50	22.20
		1#24	22.64	22.55	22.21
		1#49	2.57	22.55	22.24
		25#0	21.56	21.84	21.43
		25#12	21.55	21.67	21.48
		25#24	21.74	21.74	21.49
		50#0	21.07	21.47	21.07
	16QAM	1#0	21.52	21.89	21.88
		1#24	21.54	22.03	21.77
		1#49	21.54	22.02	21.89
		25#0	21.03	21.22	20.72
		25#12	20.92	21.20	20.89
		25#24	21.04	21.36	20.88
		50#0	20.46	20.51	20.41

Channel Bandwidth	Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
15 MHz	QPSK	1#0	22.44	22.53	22.00
		1#37	22.54	22.62	22.11
		1#74	22.50	22.47	22.16
		36#0	21.80	21.76	21.49
		36#17	21.91	21.74	21.63
		36#35	22.04	21.87	21.52
		75#0	21.08	21.15	21.00
	16QAM	1#0	21.71	21.89	21.58
		1#37	21.81	21.92	21.56
		1#74	21.81	21.93	21.55
		36#0	21.11	21.15	20.73
		36#17	21.04	21.17	20.88
		36#35	20.95	21.35	20.74
		75#0	20.58	20.50	20.18
20 MHz	QPSK	1#0	22.58	22.45	22.18
		1#49	22.57	22.68	22.05
		1#99	22.44	22.48	22.30
		50#0	21.88	21.93	21.69
		50#24	21.77	21.94	21.55
		50#49	21.86	21.90	21.54
		100#0	21.13	21.23	21.09
	16QAM	1#0	21.91	21.82	21.57
		1#49	21.83	21.93	21.54
		1#99	21.74	21.83	21.61
		50#0	20.89	21.24	21.02
		50#24	20.71	21.19	21.03
		50#49	20.87	21.15	20.92
		100#0	20.48	20.41	20.34

LTE Band 17 (PART 27)

Channel Bandwidth	Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5 MHz	QPSK	1#0	22.51	22.48	22.55
		1#12	22.56	22.53	22.59
		1#24	22.57	22.54	22.51
		12#0	22.01	21.91	21.88
		12#6	21.95	21.79	21.94
		12#11	22.03	21.86	21.88
		25#0	21.73	21.43	21.53
	16QAM	1#0	21.71	21.65	21.97
		1#12	21.60	21.58	21.84
		1#24	21.82	21.69	21.80
		12#0	20.93	21.17	21.37
		12#6	21.07	21.34	21.26
		12#11	21.15	21.18	21.32
		25#0	20.40	20.57	20.72
10 MHz	QPSK	1#0	22.41	22.38	22.31
		1#24	22.33	22.39	22.36
		1#49	22.40	22.36	22.34
		25#0	21.84	21.80	21.81
		25#12	21.82	21.79	21.96
		25#24	21.87	21.80	21.96
		50#0	20.49	21.22	21.36
	16QAM	1#0	21.85	21.57	21.90
		1#24	21.55	21.66	21.95
		1#49	21.45	21.71	21.90
		25#0	21.17	21.11	21.42
		25#12	21.15	21.03	21.42
		25#24	21.00	21.01	21.24
		50#0	20.47	20.57	20.72

Band II

Test Modulation		Channel Bandwidth	Low Channel PAR (dB)	Middle Channel PAR (dB)	High Channel PAR (dB)	Limit (dB)
QPSK	1 RB	20 MHz	3.00	3.96	3.84	13
	100 RB		6.36	6.36	6.28	13
16QAM	1 RB	20 MHz	4.00	4.32	4.60	13
	100 RB		7.00	7.16	7.04	13

Band IV

Test Modulation		Channel Bandwidth	Low Channel PAR (dB)	Middle Channel PAR (dB)	High Channel PAR (dB)	Limit (dB)
QPSK	1 RB	20 MHz	2.80	3.44	3.24	13
	100 RB		6.36	6.36	6.24	13
16QAM	1 RB	20 MHz	3.08	3.28	3.64	13
	100 RB		6.84	6.92	6.88	13

Band V

Test Modulation		Channel Bandwidth	Low Channel PAR (dB)	Middle Channel PAR (dB)	High Channel PAR (dB)	Limit (dB)
QPSK	1 RB	10 MHz	5.00	4.20	4.72	13
	50 RB		5.88	5.48	5.60	13
16QAM	1 RB	10 MHz	5.92	5.04	5.60	13
	50 RB		6.84	6.36	6.52	13

Band VII

Test Modulation		Channel Bandwidth	Low Channel PAR (dB)	Middle Channel PAR (dB)	High Channel PAR (dB)	Limit (dB)
QPSK	1 RB	20 MHz	2.72	2.88	3.00	13
	100 RB		6.36	6.36	6.40	13
16QAM	1 RB	20 MHz	3.36	3.44	3.88	13
	100 RB		6.96	7.00	7.08	13

Band 17

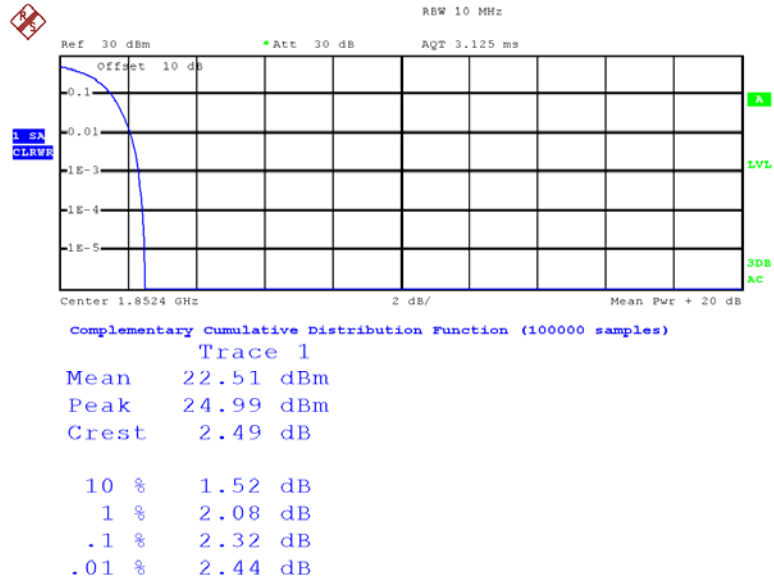
Test Modulation		Channel Bandwidth	Low Channel PAR (dB)	Middle Channel PAR (dB)	High Channel PAR (dB)	Limit (dB)
QPSK	1 RB	10 MHz	3.96	3.72	3.56	13
	100 RB		5.08	5.12	5.08	13
16QAM	1 RB	10 MHz	4.96	4.64	4.36	13
	100 RB		6.00	6.08	5.96	13

Note: peak-to-average ratio (PAR) <13 dB.

Peak-to-average ratio (PAR)

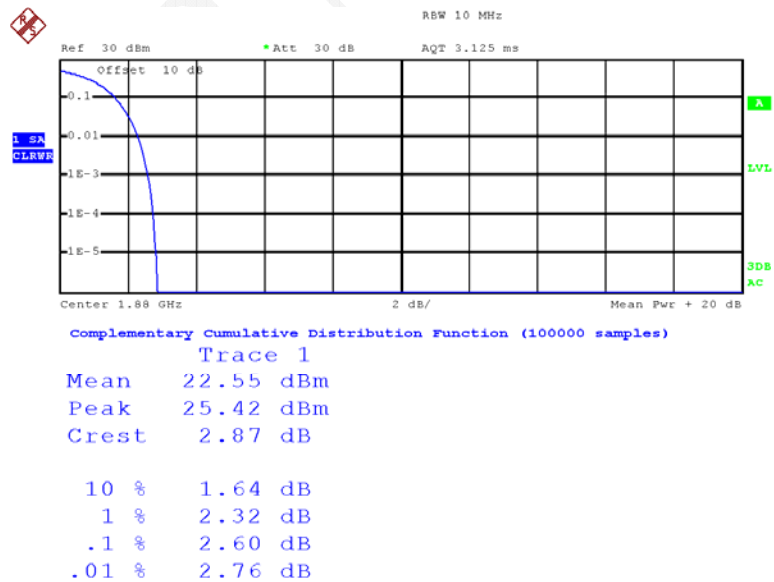
WCDMA Band II

Low Channel



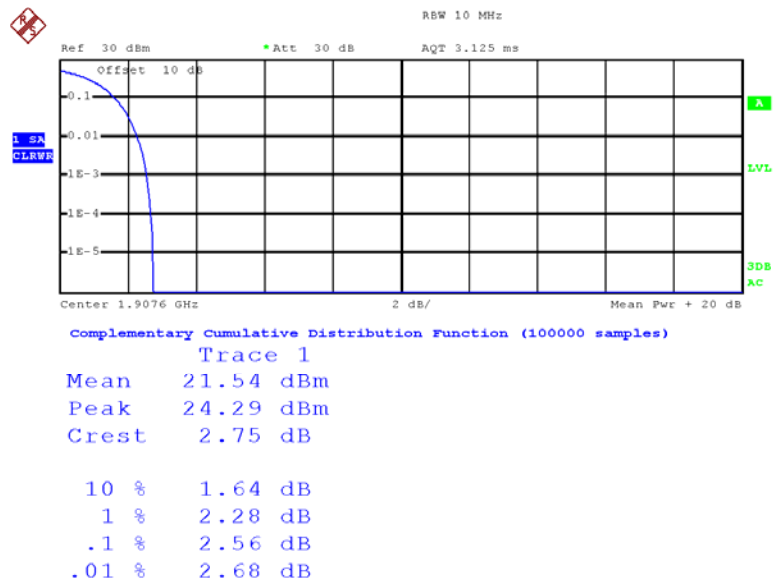
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Middle Channel



Date: 13.JUN.2016 22:29:13

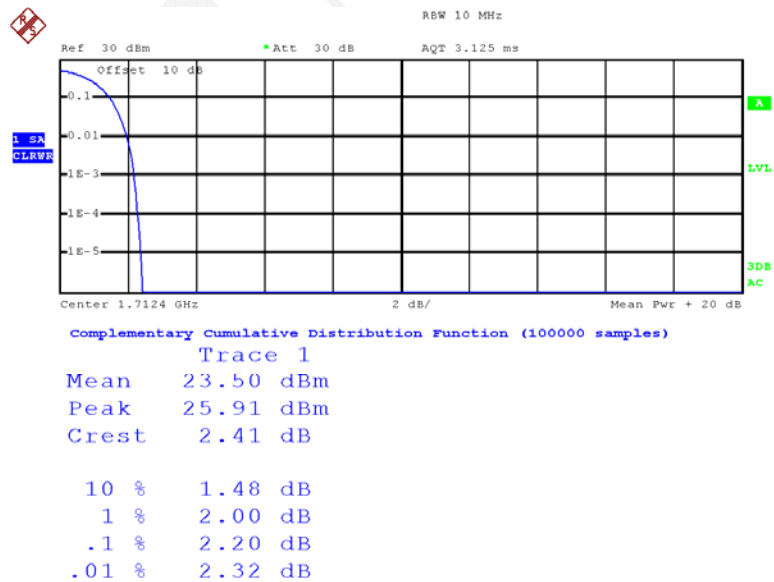
High Channel



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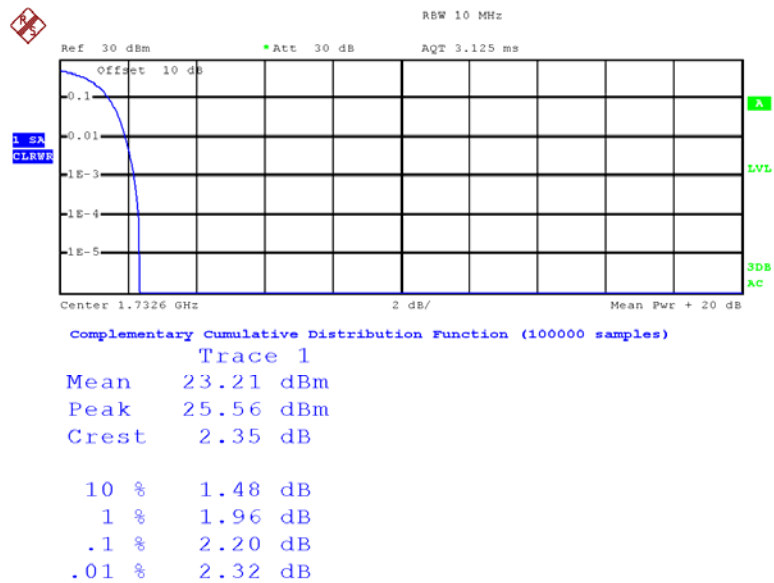
WCDMA Band IV

Low Channel



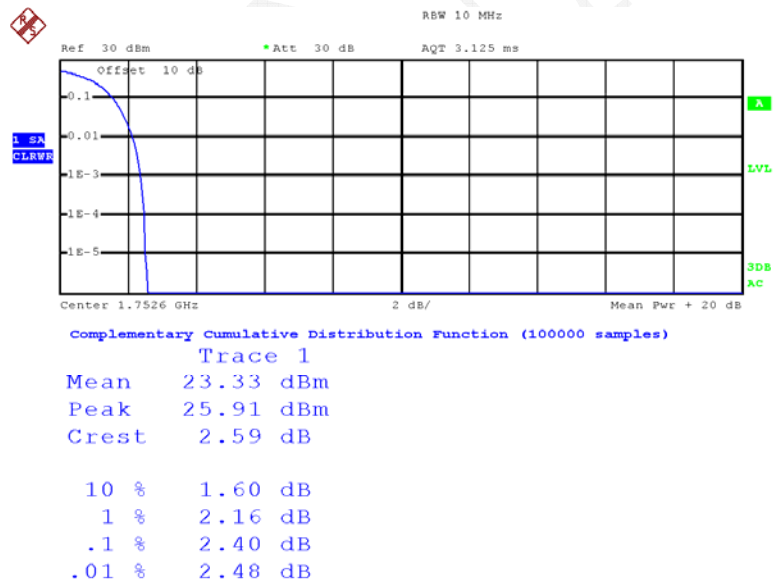
Date: 13.JUN.2016 22:28:45

Middle Channel



Date: 13.JUN.2016 22:28:29

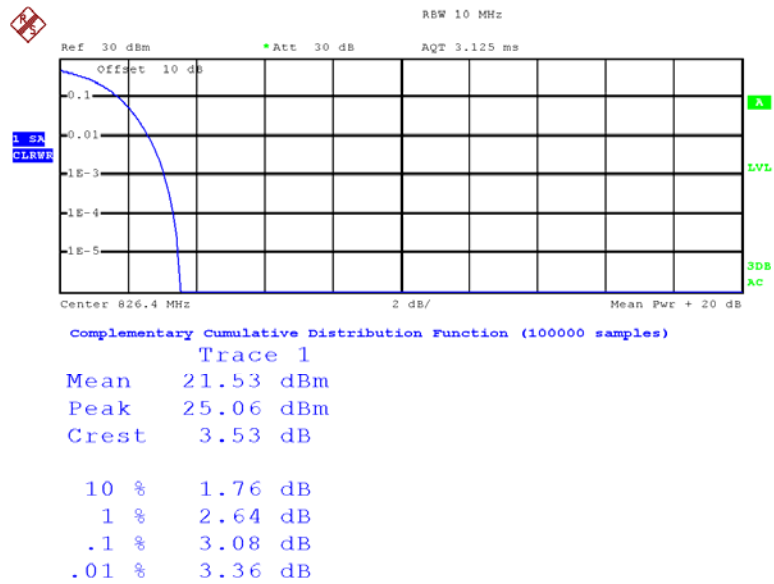
High Channel



Date: 13.JUN.2016 22:28:55

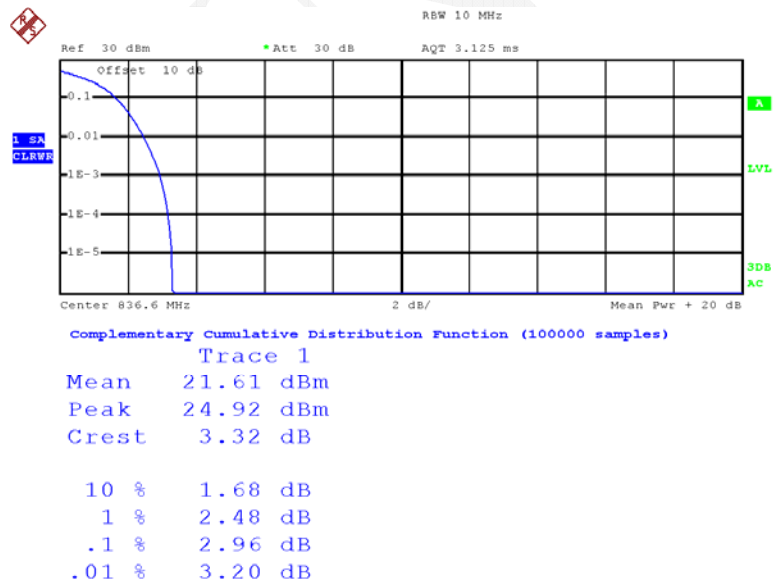
WCDMA Band V

Low Channel



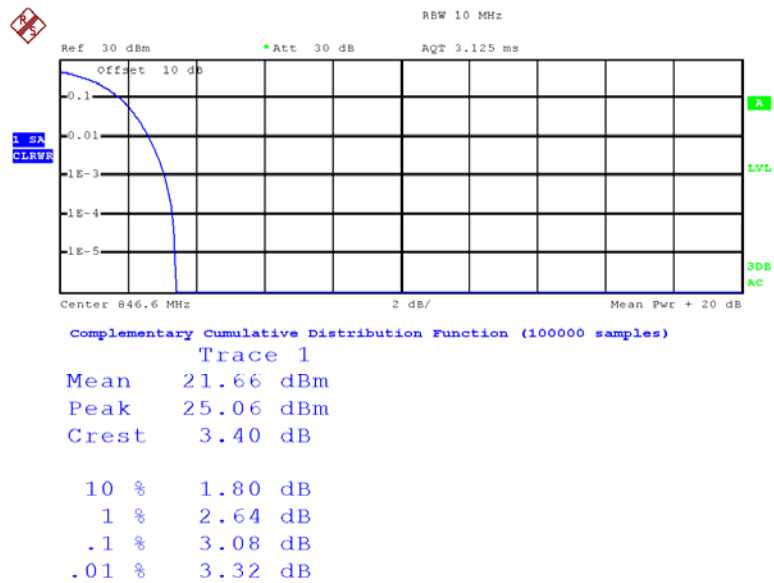
Date: 13.JUN.2016 22:27:38

Middle Channel



Date: 13.JUN.2016 22:27:11

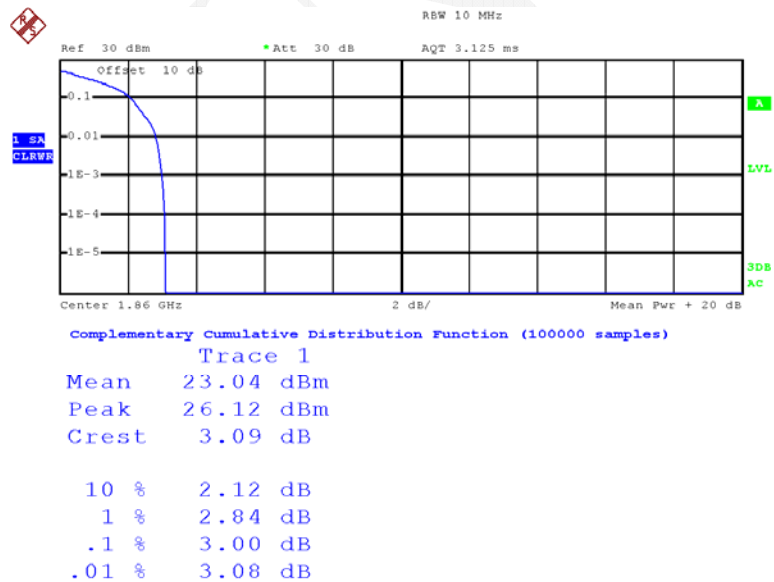
High Channel



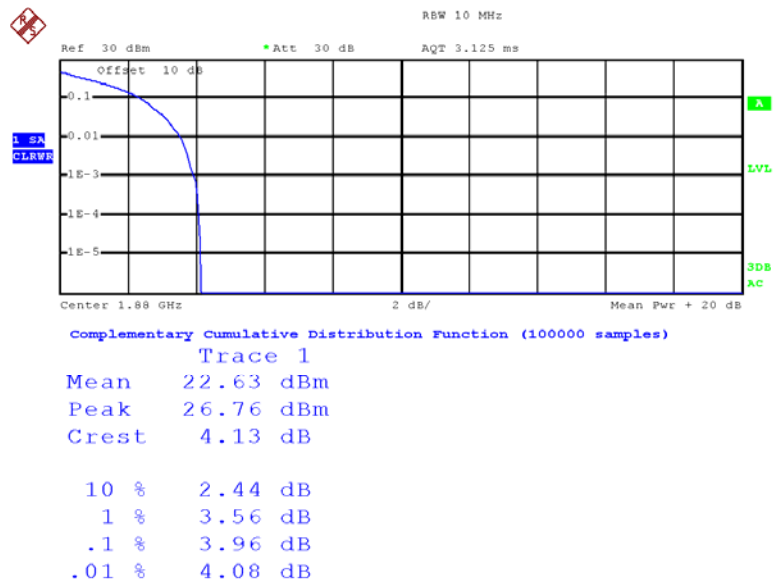
Date: 13.JUN.2016 22:27:56

LTE Band II

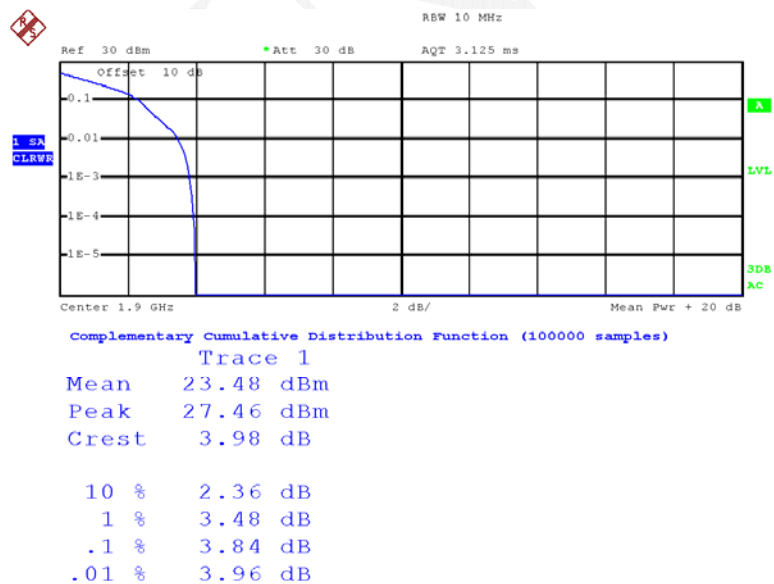
QPSK_20MHz_1RB_Low Channel



Date: 14.JUN.2016 22:02:08

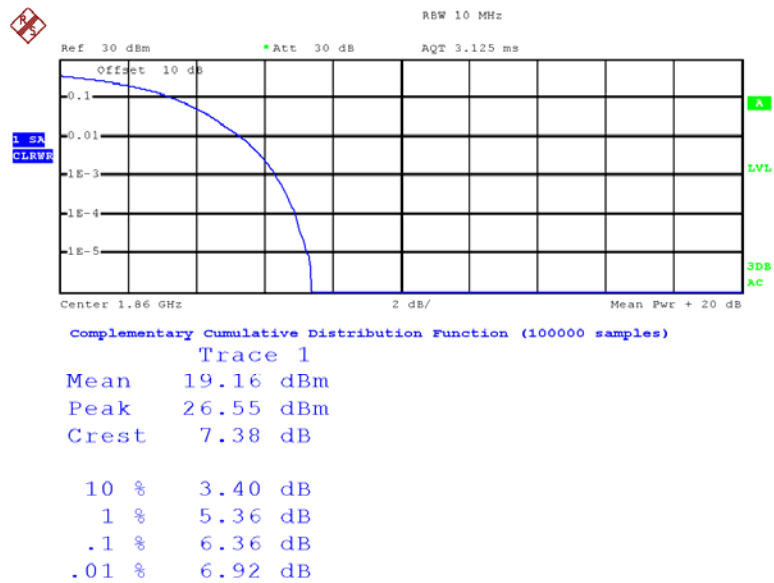
QPSK_20MHz_1RB Middle Channel

Date: 14.JUN.2016 22:00:38

QPSK_20MHz_1RB High Channel

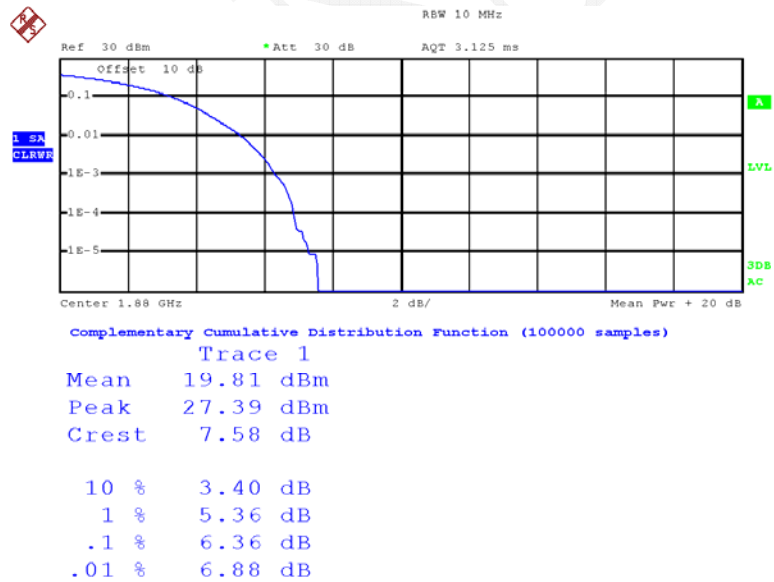
Date: 14.JUN.2016 22:04:56

QPSK_20MHz_FULL RB Low Channel

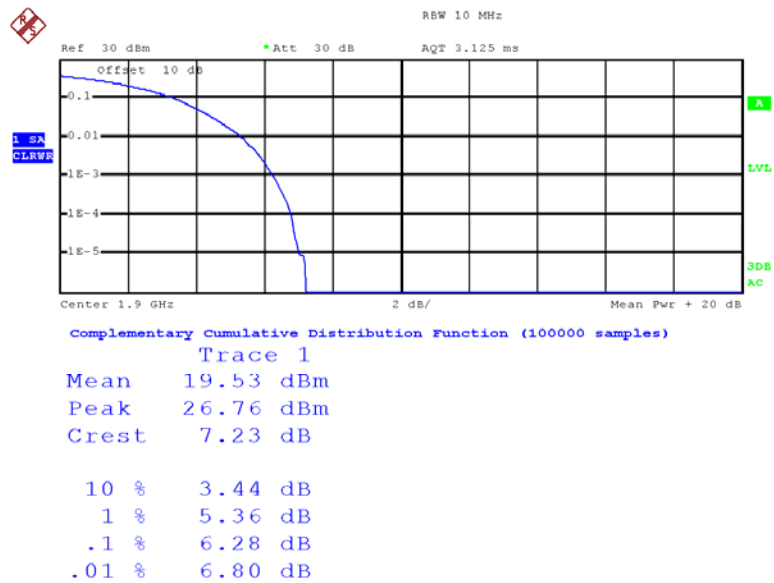


Date: 14.JUN.2016 22:02:23

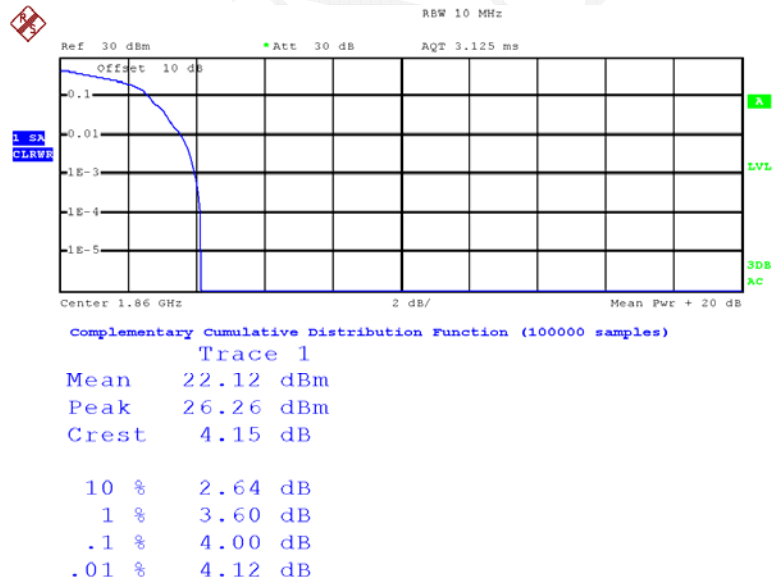
QPSK_20MHz_FULL RB Middle Channel



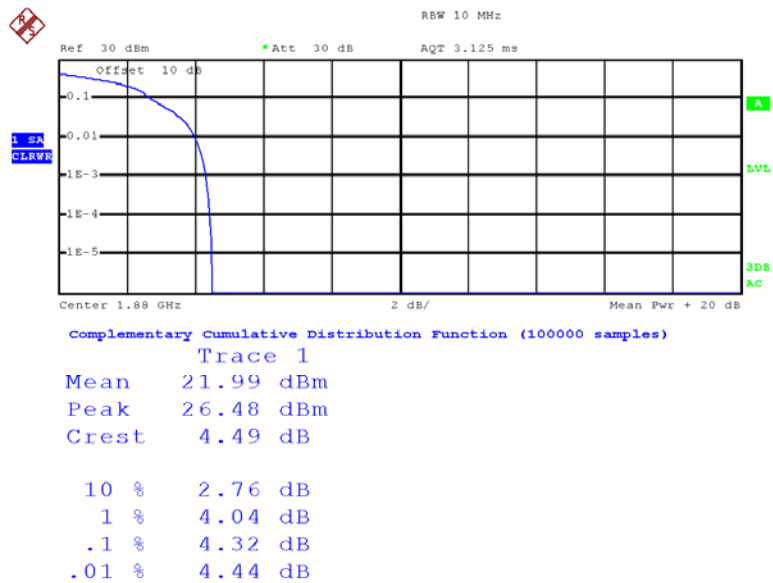
Date: 14.JUN.2016 22:00:12

QPSK 20MHz_FULL RB High Channel

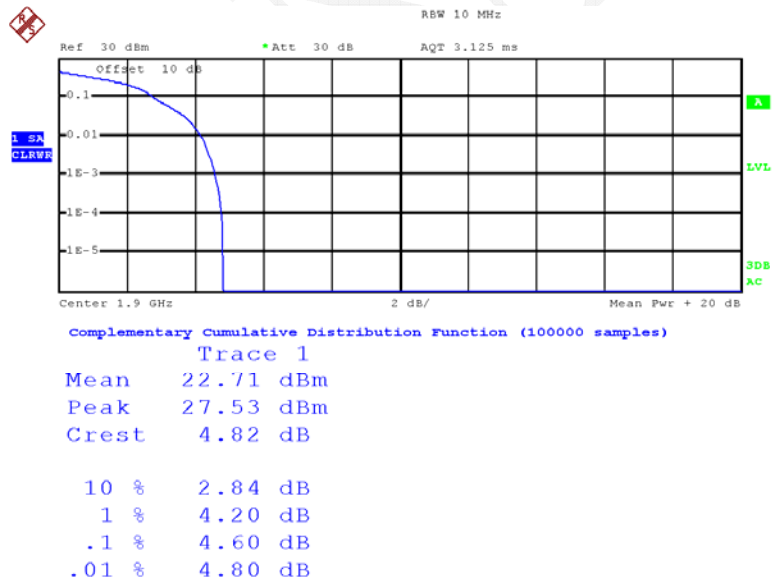
Date: 14.JUN.2016 22:04:42

16QAM_20MHz_1RB_Low Channel

Date: 14.JUN.2016 22:01:58

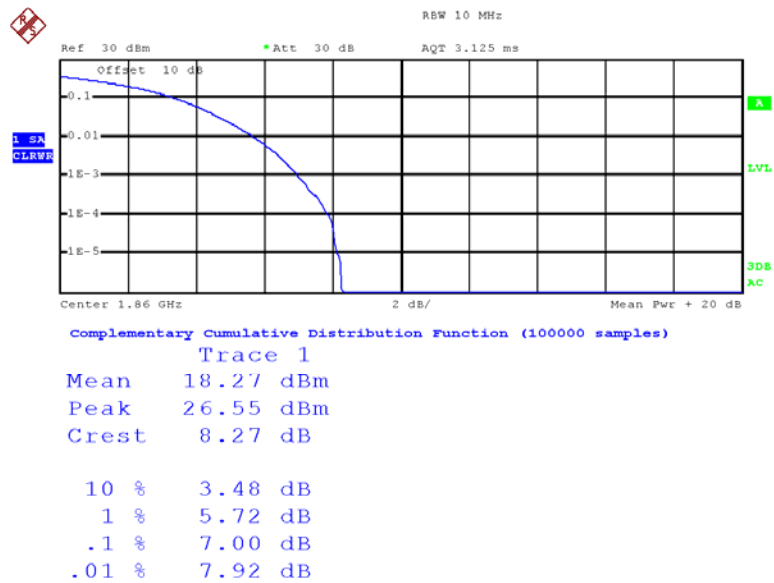
16QAM 20MHz_1RB Middle Channel

Date: 14.JUN.2016 22:00:44

16QAM 20MHz_1RB High Channel

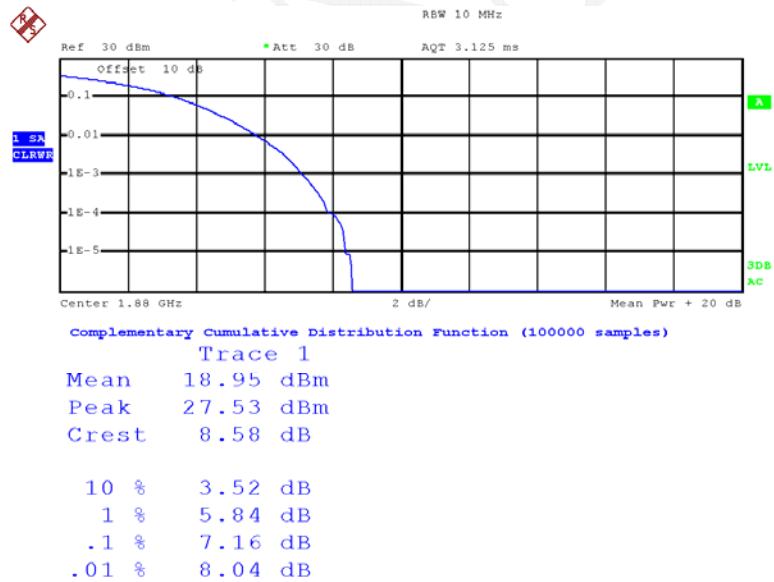
Date: 14.JUN.2016 22:05:01

16QAM 20MHz_FULL RB Low Channel

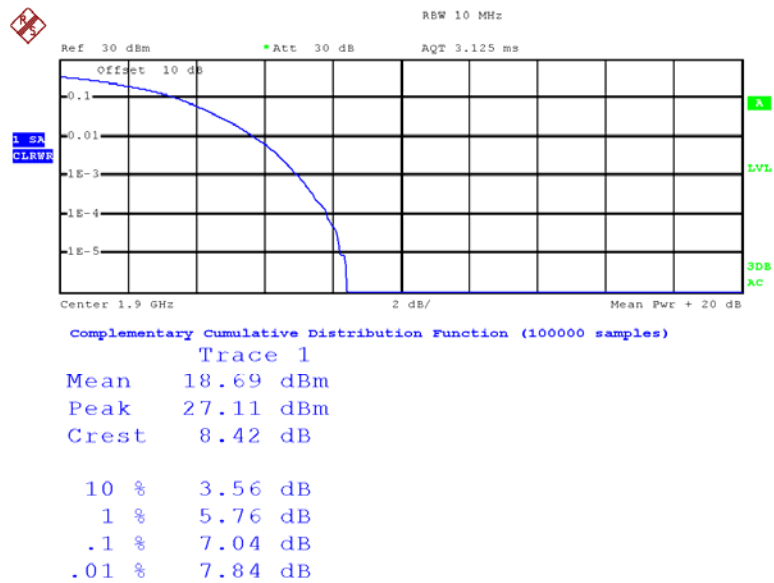


Date: 14.JUN.2016 22:02:30

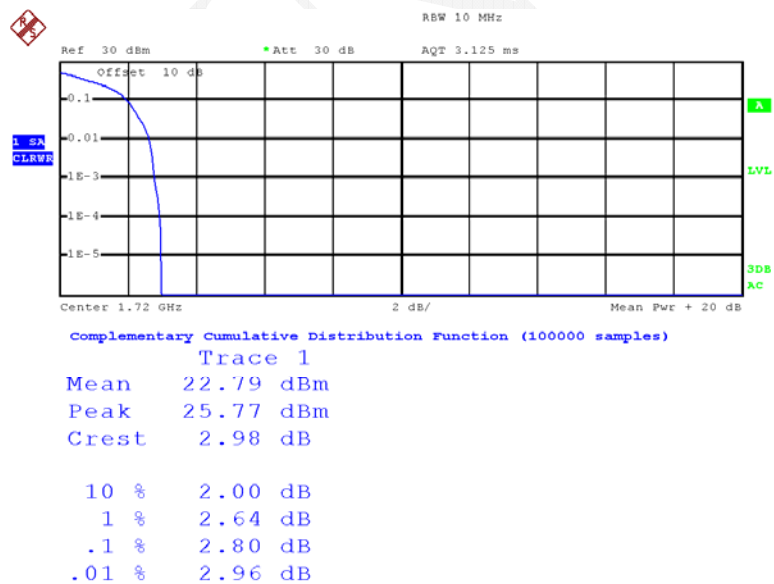
16QAM 20MHz_FULL RB Middle Channel



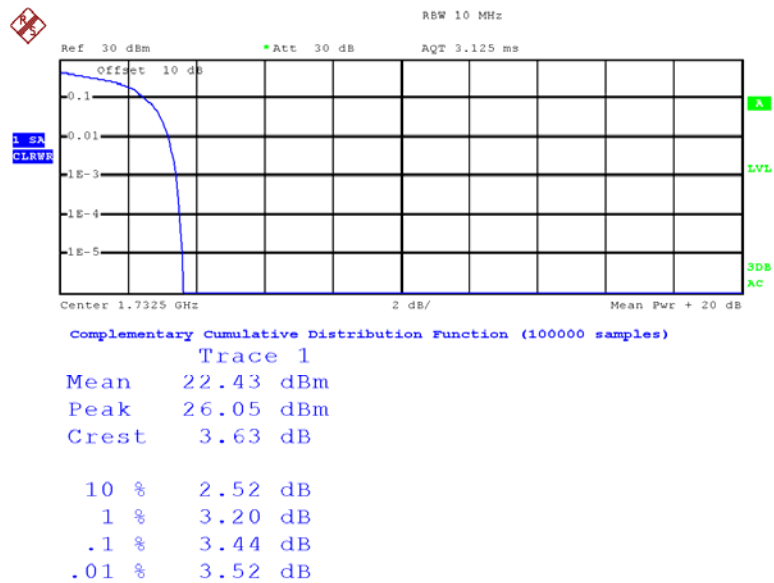
Date: 14.JUN.2016 21:59:53

16QAM 20MHz_FULL RB High Channel

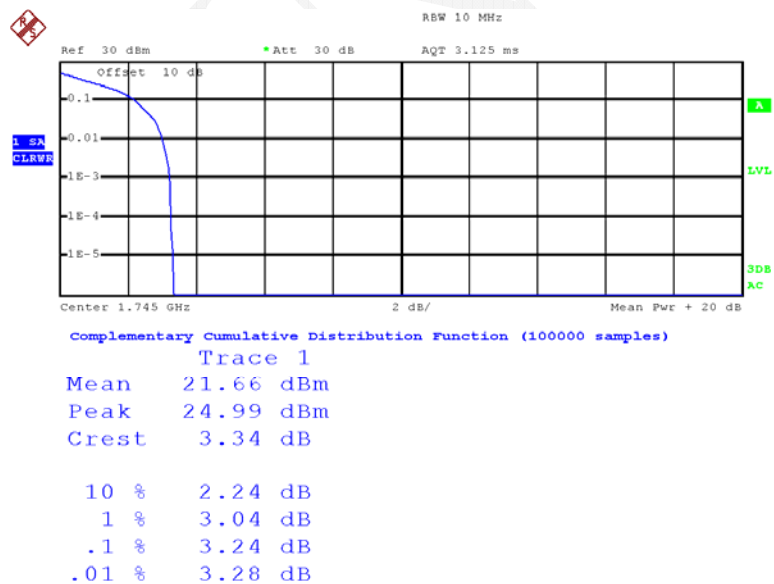
Date: 14.JUN.2016 22:04:35

LTE Band IV**QPSK_20MHz_1RB_Low Channel**

Date: 14.JUN.2016 21:55:47

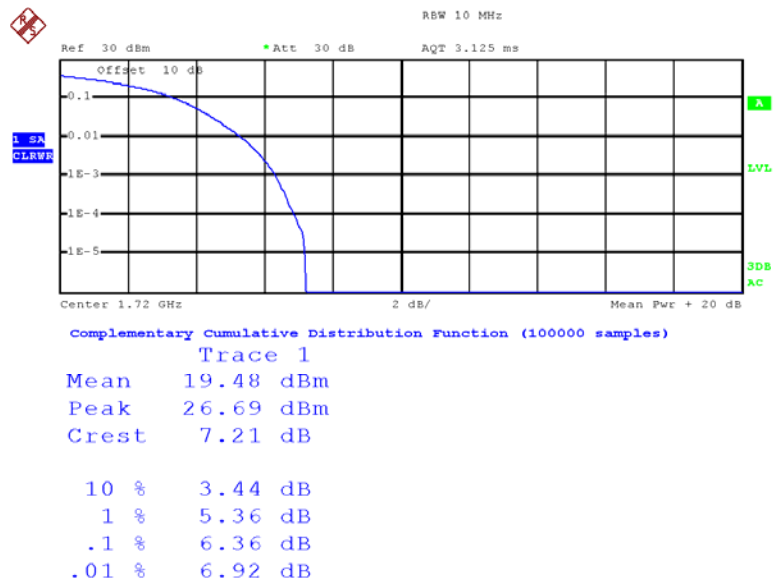
QPSK_20MHz_1RB Middle Channel

Date: 14.JUN.2016 21:53:06

QPSK_20MHz_1RB High Channel

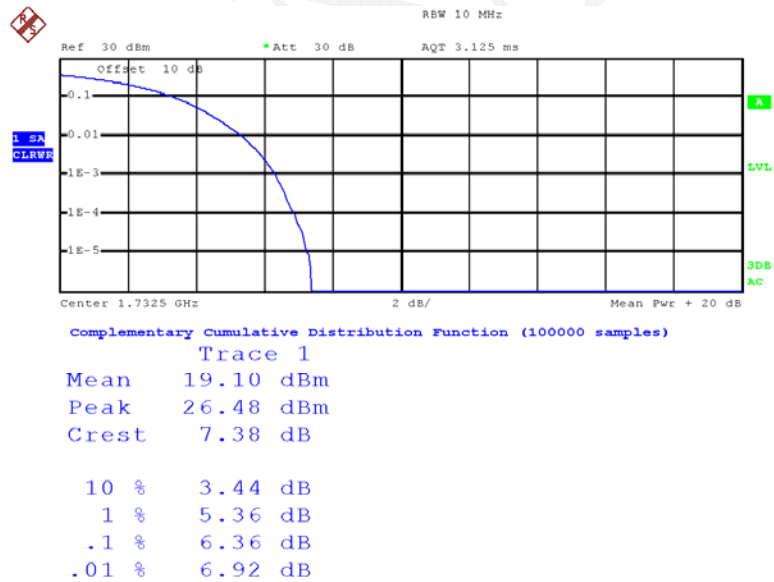
Date: 14.JUN.2016 21:58:04

QPSK_20MHz_FULL RB Low Channel



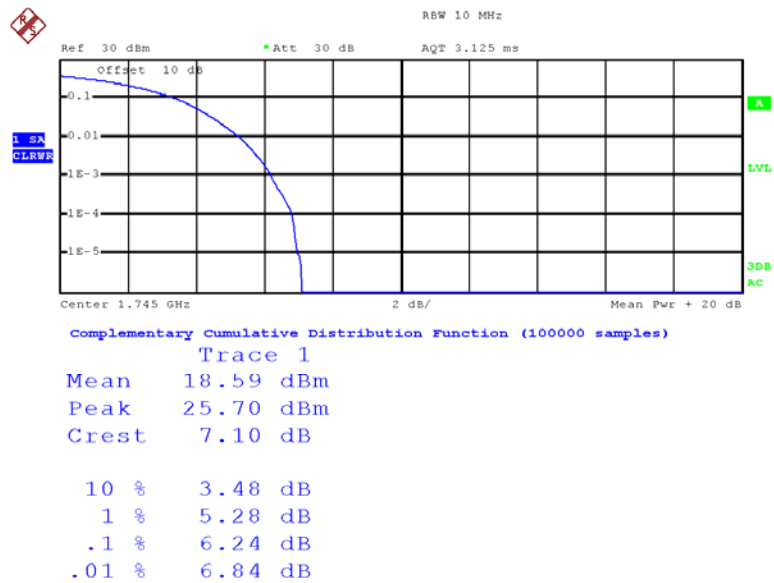
Date: 14.JUN.2016 21:55:35

QPSK_20MHz_FULL RB Middle Channel



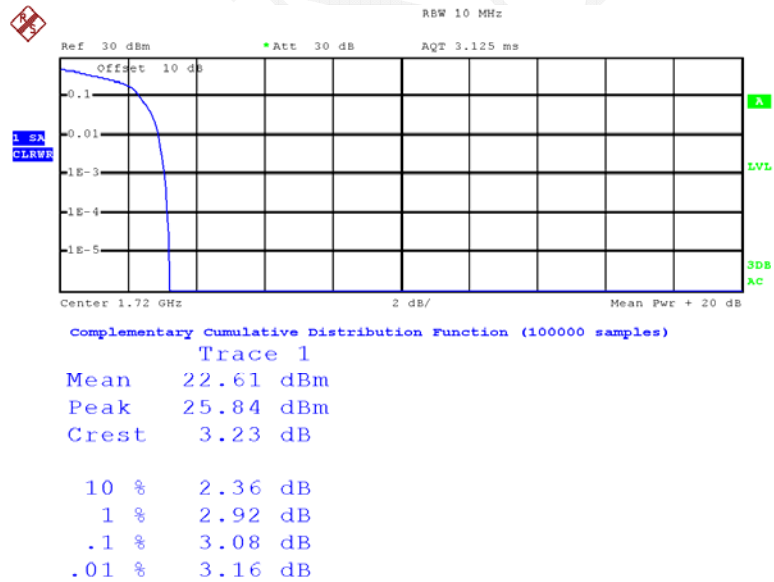
Date: 14.JUN.2016 21:53:53

QPSK 20MHz_FULL RB High Channel

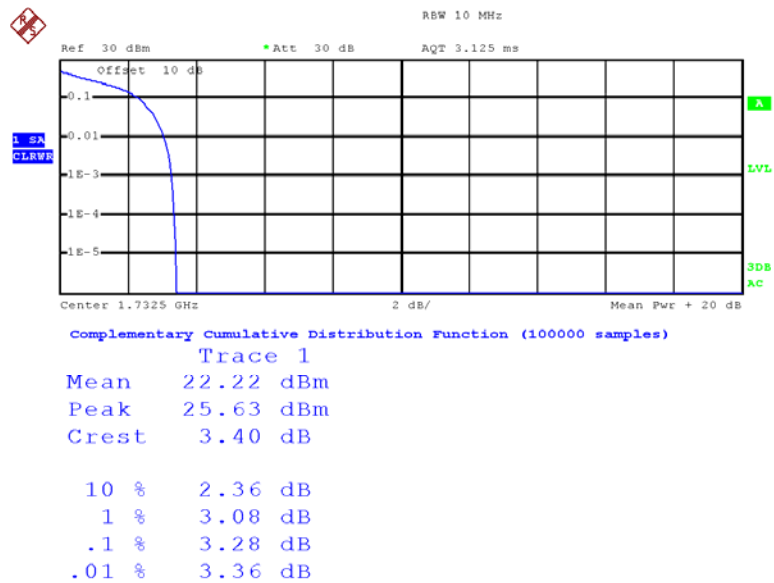


Date: 14.JUN.2016 21:58:13

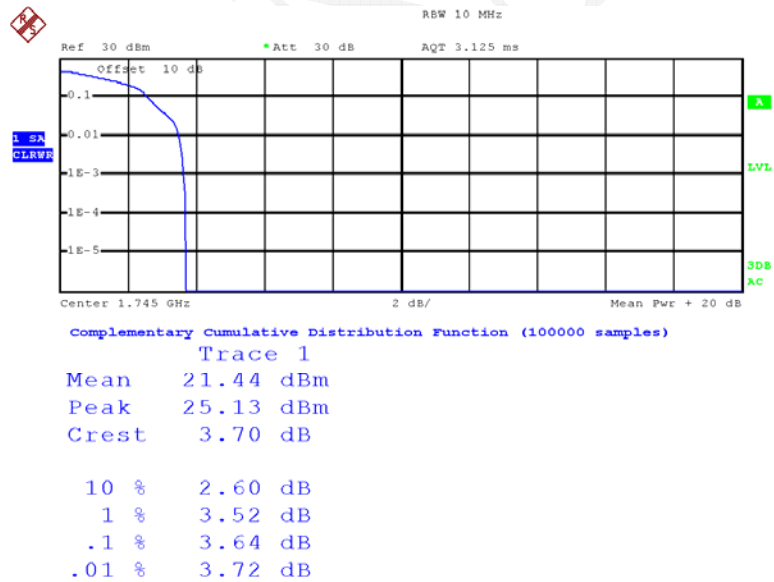
16QAM_20MHz_1RB_Low Channel



Date: 14.JUN.2016 21:55:54

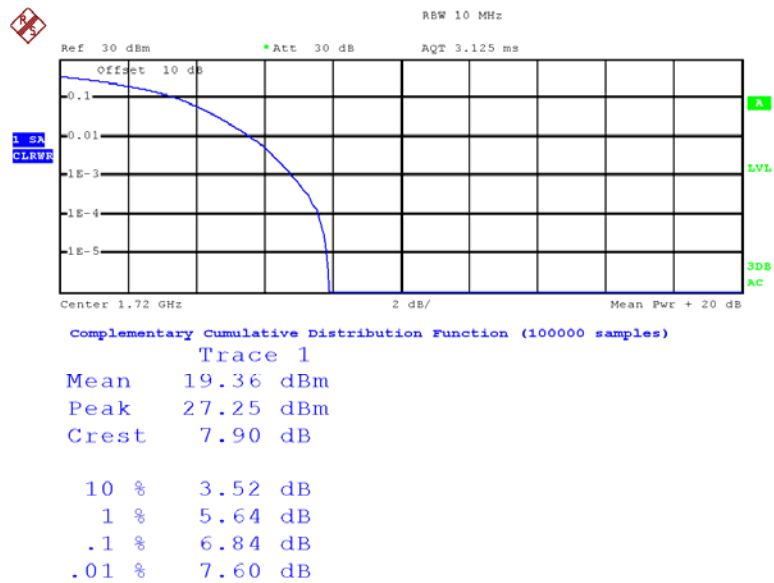
16QAM 20MHz_1RB Middle Channel

Date: 14.JUN.2016 21:53:43

16QAM 20MHz_1RB High Channel

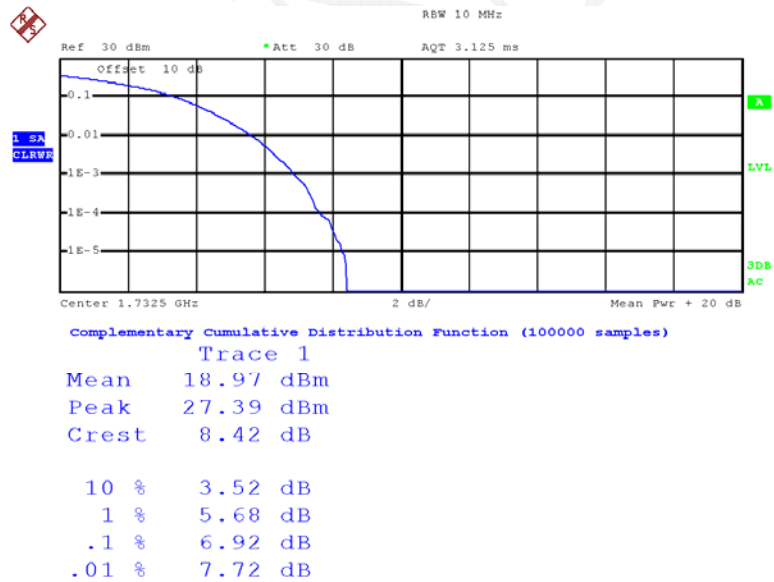
Date: 14.JUN.2016 21:57:55

16QAM 20MHz_FULL RB Low Channel

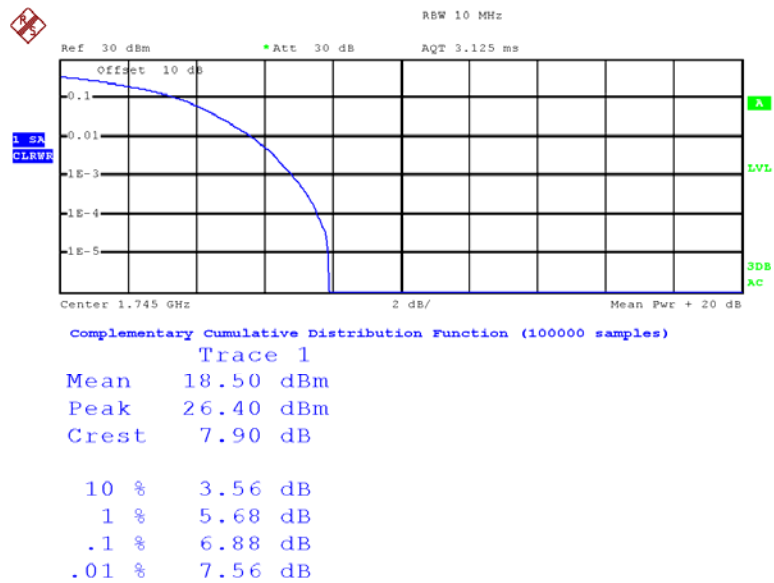


Date: 14.JUN.2016 21:55:28

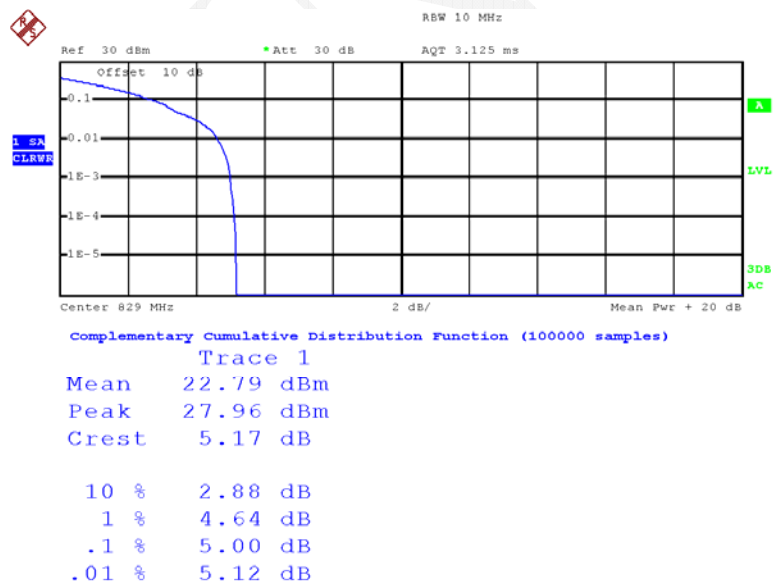
16QAM 20MHz_FULL RB Middle Channel



Date: 14.JUN.2016 21:54:01

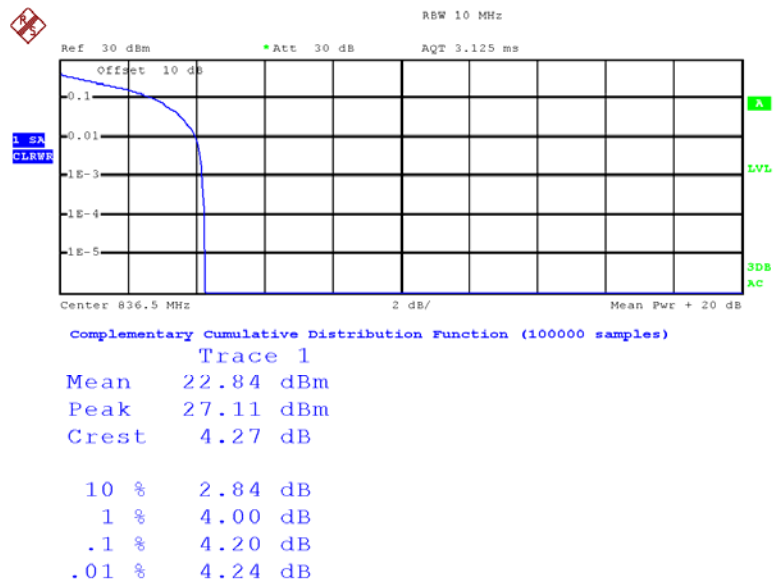
16QAM 20MHz_FULL RB High Channel

Date: 14.JUN.2016 21:58:20

LTE Band V**QPSK_10MHz_1RB_Low Channel**

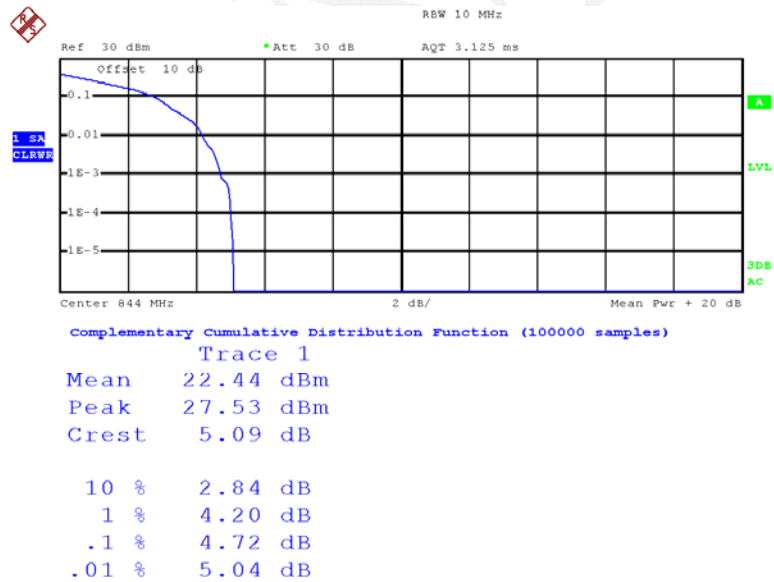
Date: 14.JUN.2016 00:46:20

QPSK_10MHz_1RB Middle Channel

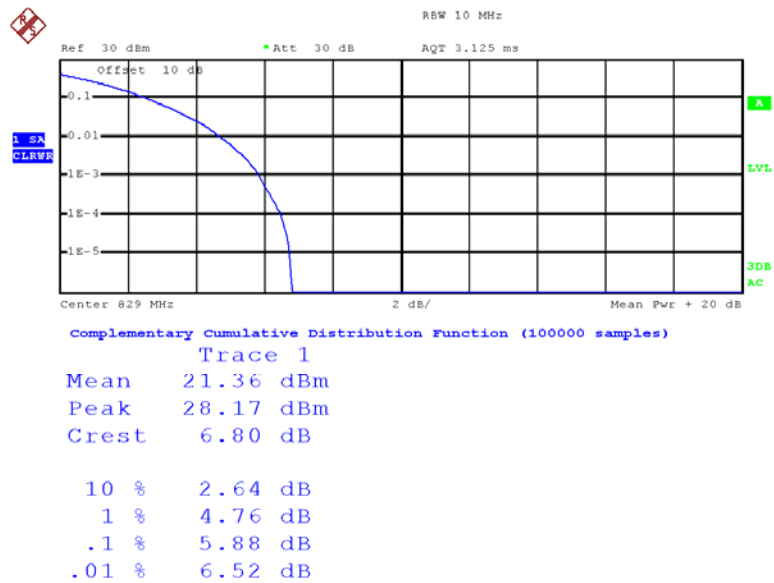


Date: 14.JUN.2016 00:42:28

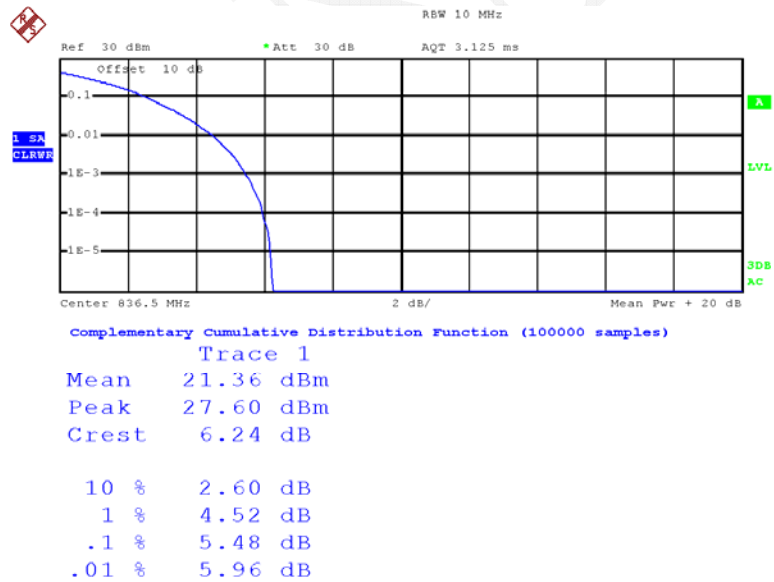
QPSK_10MHz_1RB High Channel



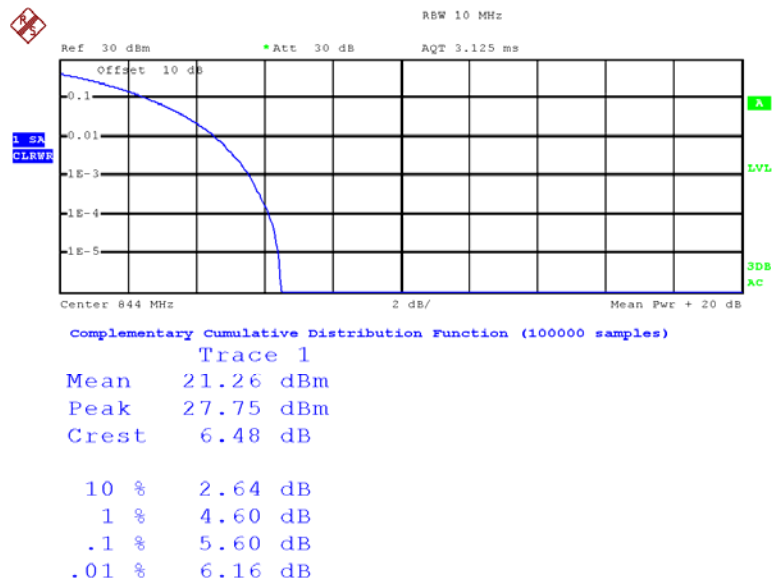
Date: 14.JUN.2016 00:44:37

QPSK_10MHz_FULL RB Low Channel

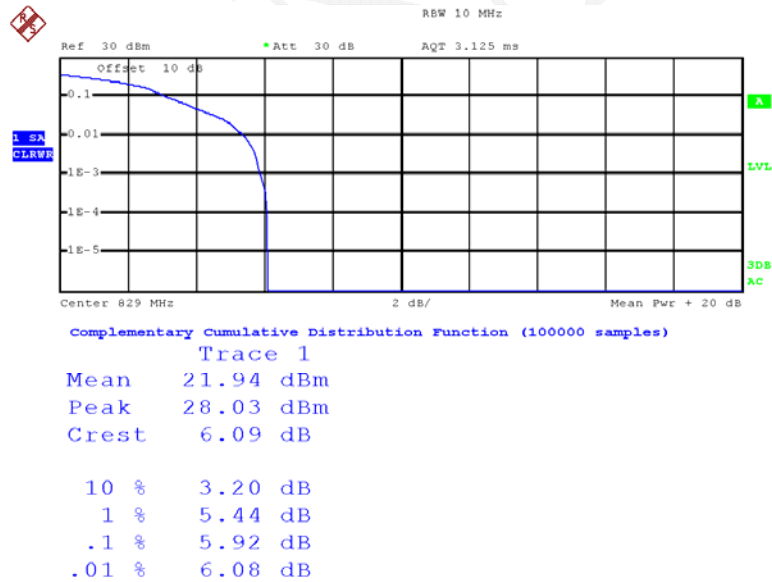
Date: 14.JUN.2016 00:46:29

QPSK_10MHz_FULL RB Middle Channel

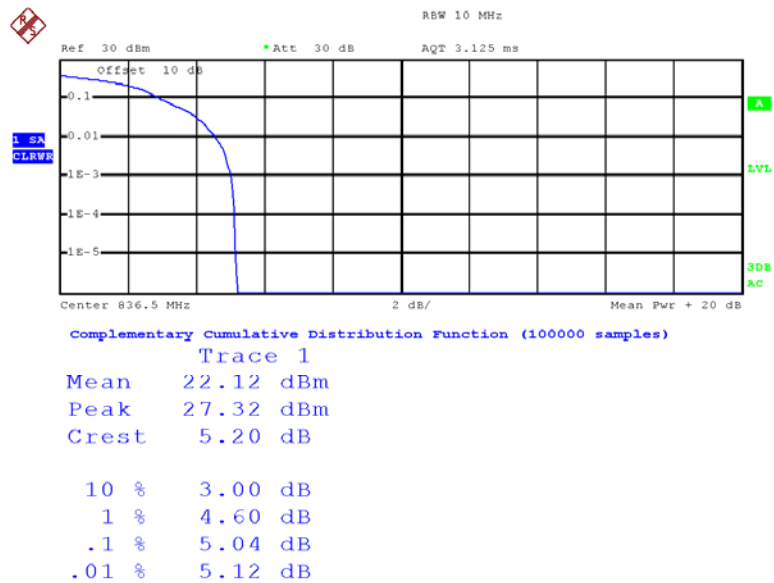
Date: 14.JUN.2016 00:42:40

QPSK 10MHz_FULL RB High Channel

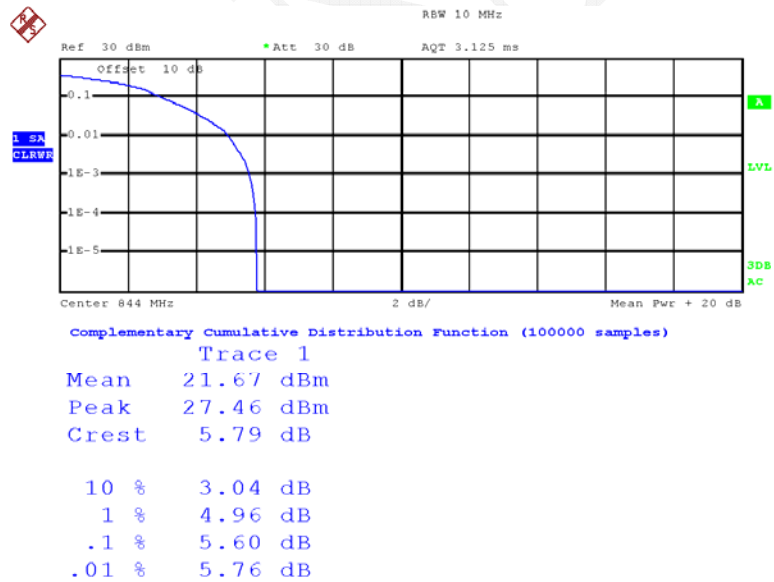
Date: 14.JUN.2016 00:44:27

16QAM_10MHz_1RB_Low Channel

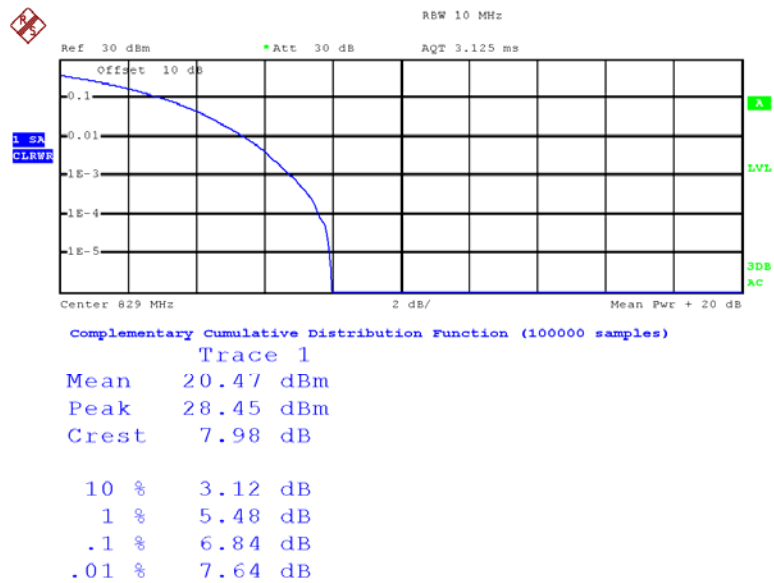
Date: 14.JUN.2016 00:46:10

16QAM 10MHz_1RB Middle Channel

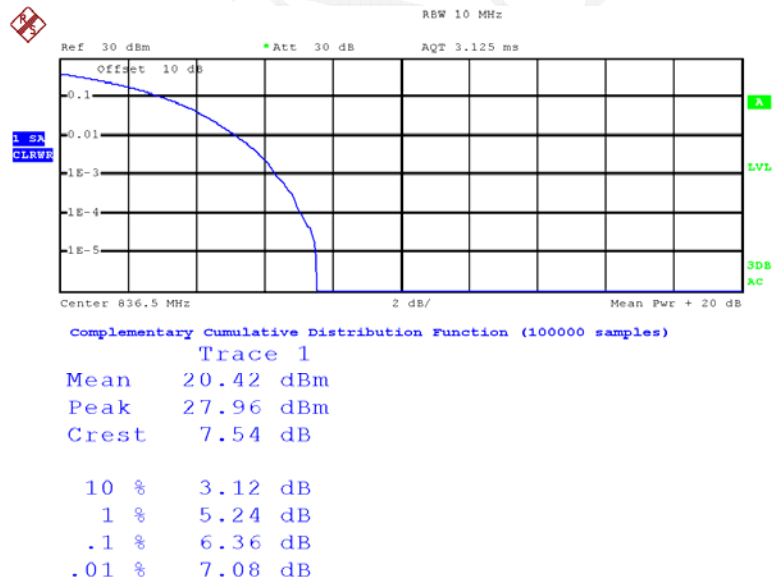
Date: 14.JUN.2016 00:42:20

16QAM 10MHz_1RB High Channel

Date: 14.JUN.2016 00:44:43

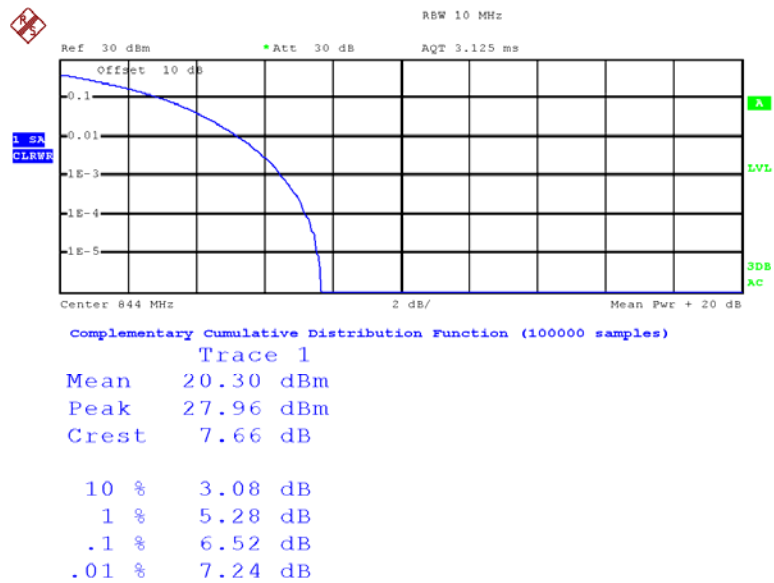
16QAM 10MHz_FULL RB Low Channel

Date: 14.JUN.2016 00:46:35

16QAM 10MHz_FULL RB Middle Channel

Date: 14.JUN.2016 00:42:49

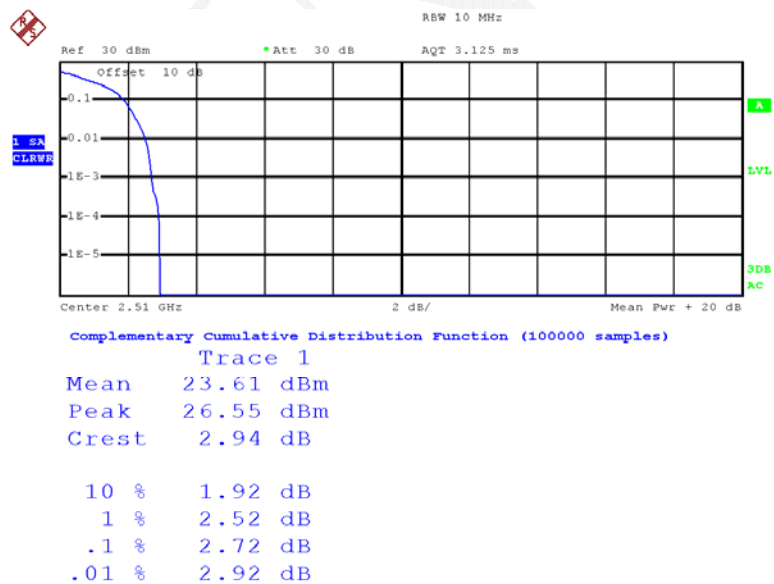
16QAM 10MHz_FULL RB High Channel



Date: 14.JUN.2016 00:44:11

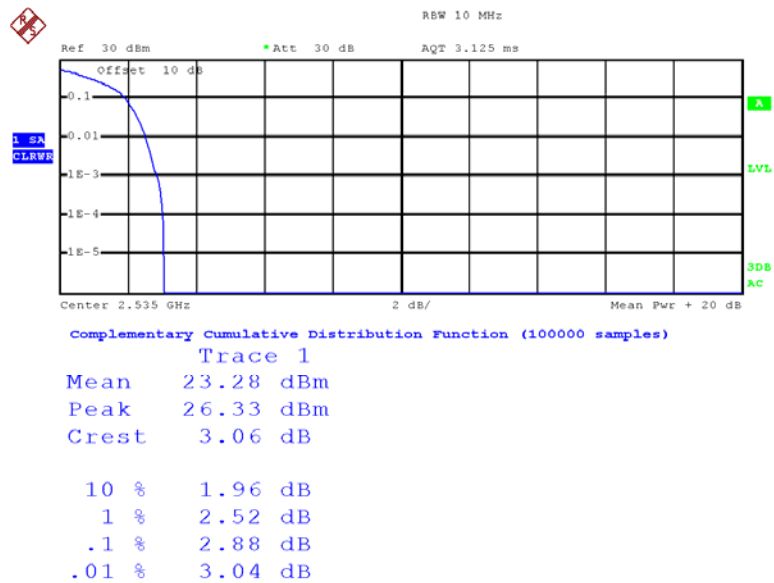
LTE Band VII

QPSK_20MHz_1RB_Low Channel



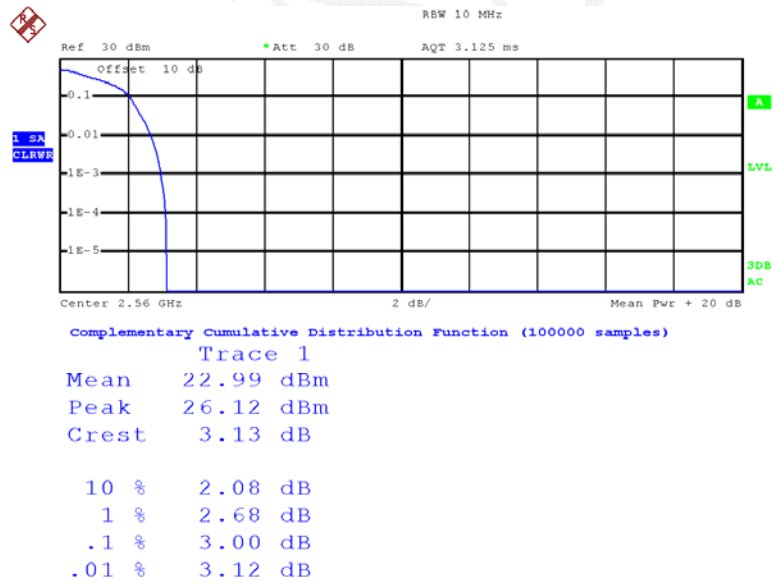
Date: 14.JUN.2016 00:34:46

QPSK_20MHz_1RB Middle Channel



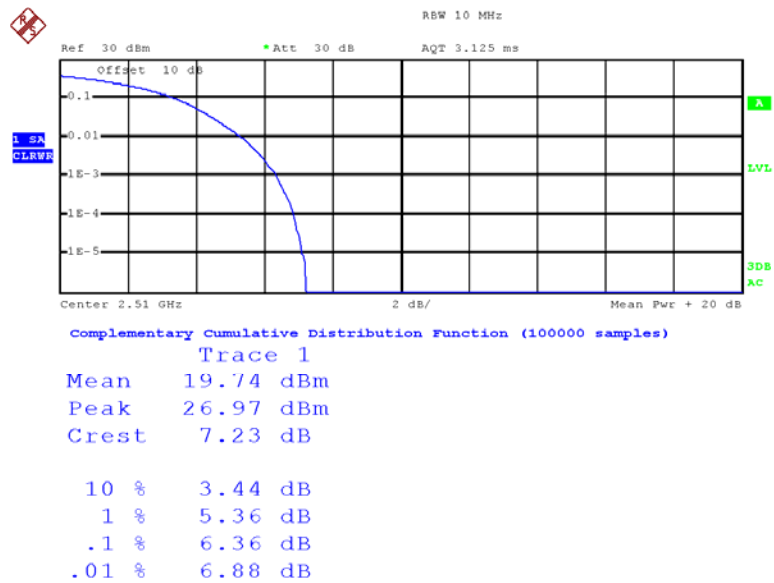
Date: 14.JUN.2016 00:33:18

QPSK_20MHz_1RB High Channel



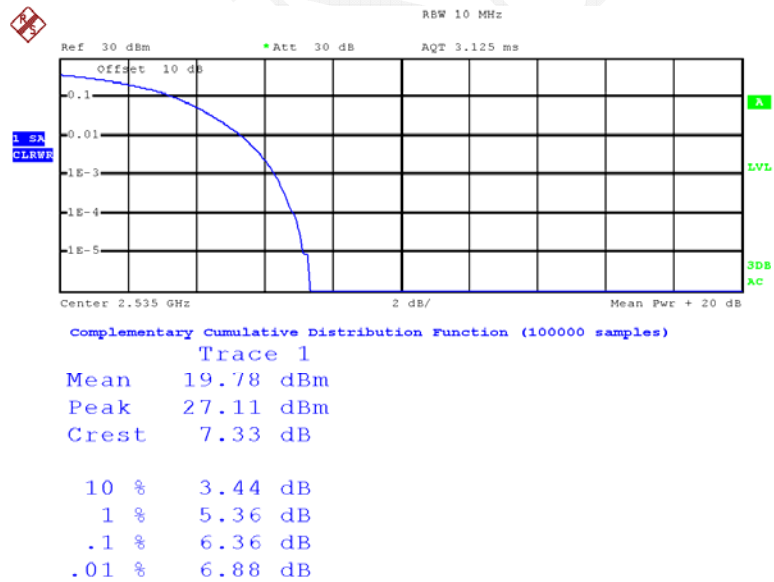
Date: 14.JUN.2016 00:36:59

QPSK_20MHz_FULL RB Low Channel

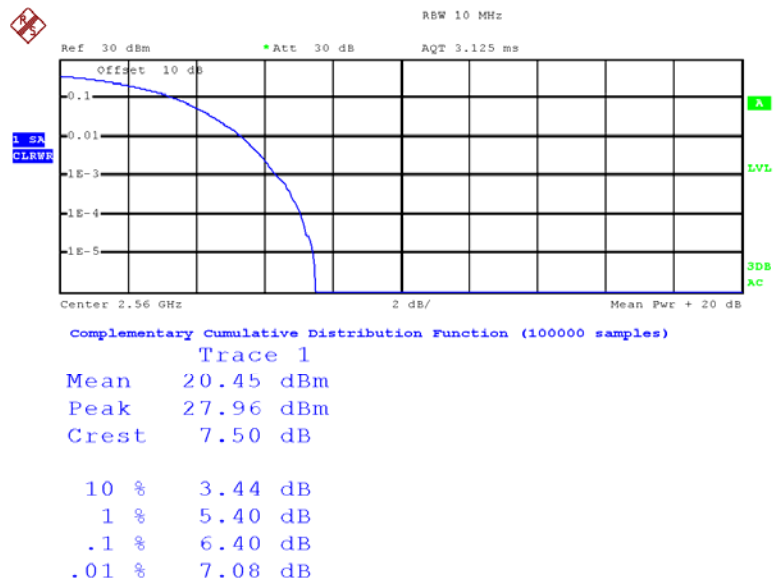


Date: 14.JUN.2016 00:34:55

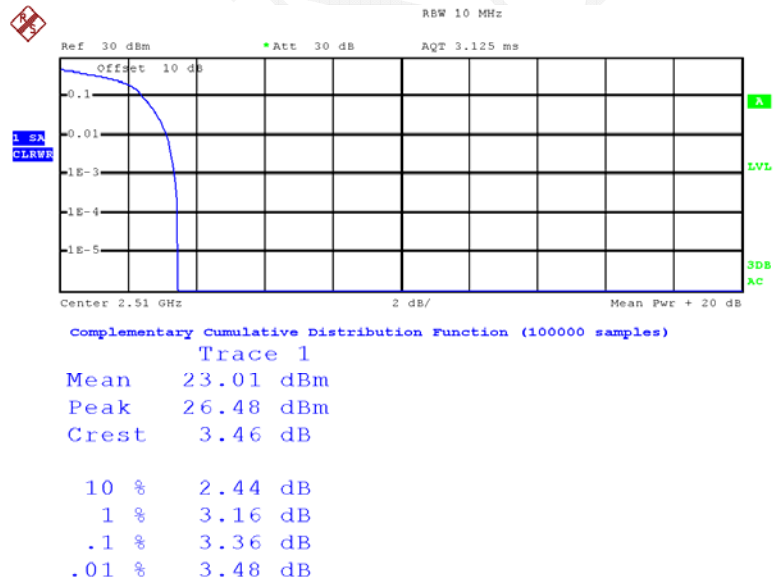
QPSK_20MHz_FULL RB Middle Channel



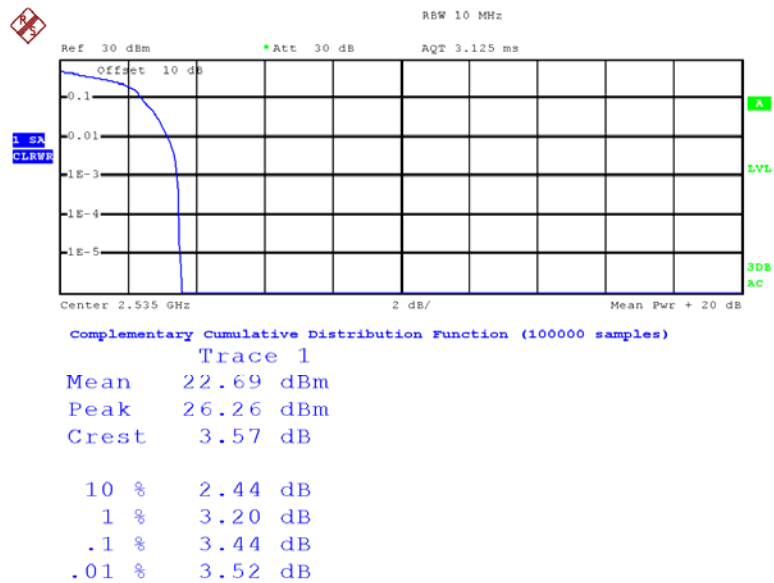
Date: 14.JUN.2016 00:32:56

QPSK 20MHz_FULL RB High Channel

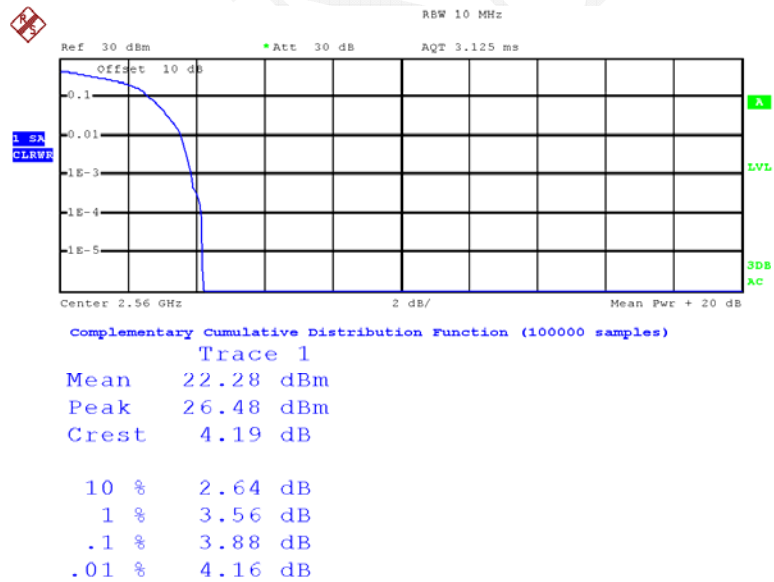
Date: 14.JUN.2016 00:36:38

16QAM_20MHz_1RB_Low Channel

Date: 14.JUN.2016 00:34:32

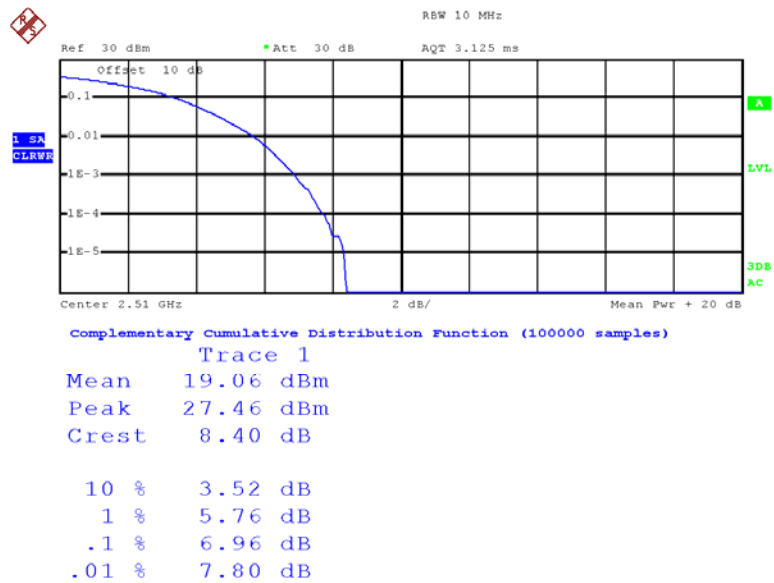
16QAM 20MHz_1RB Middle Channel

Date: 14.JUN.2016 00:33:24

16QAM 20MHz_1RB High Channel

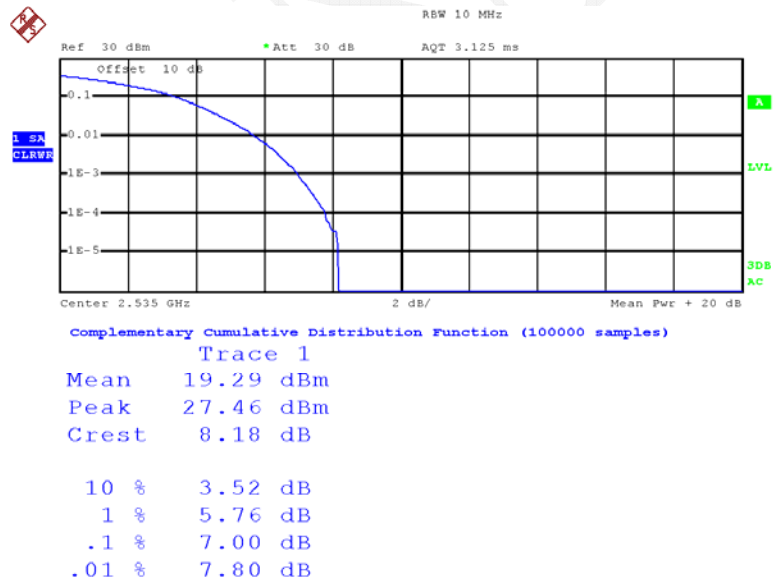
Date: 14.JUN.2016 00:37:07

16QAM 20MHz_FULL RB Low Channel

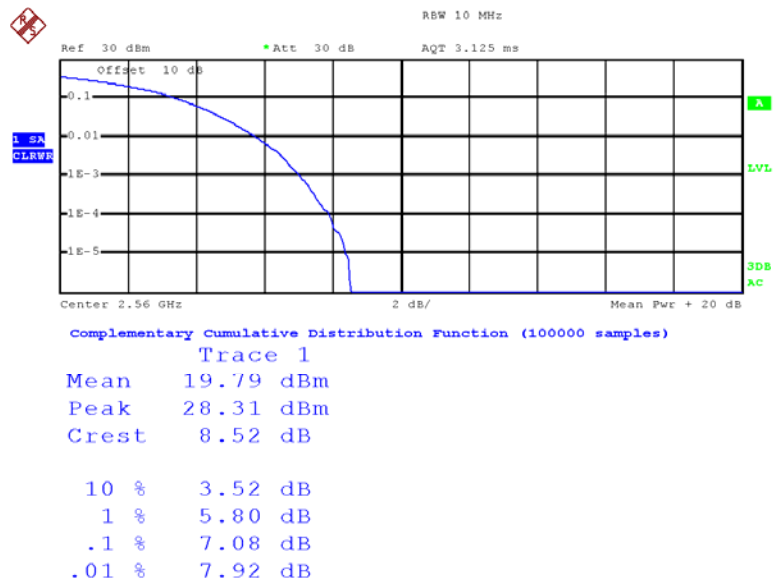


Date: 14.JUN.2016 00:35:01

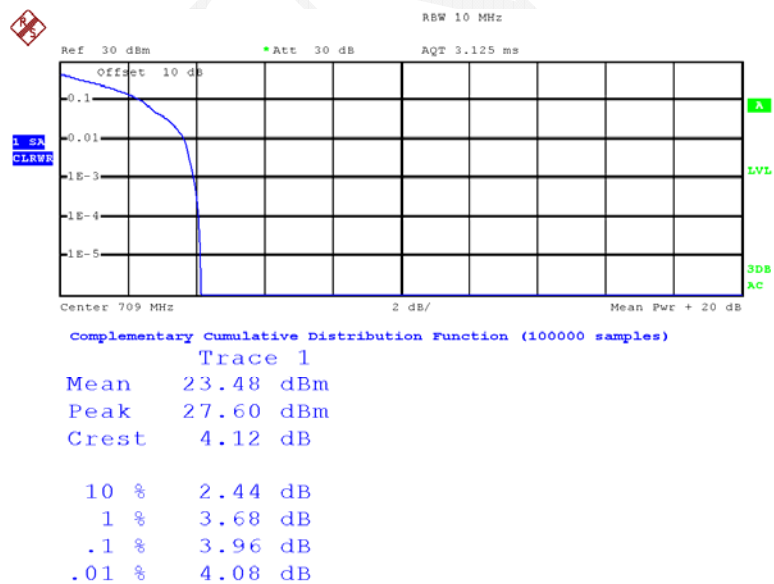
16QAM 20MHz_FULL RB Middle Channel



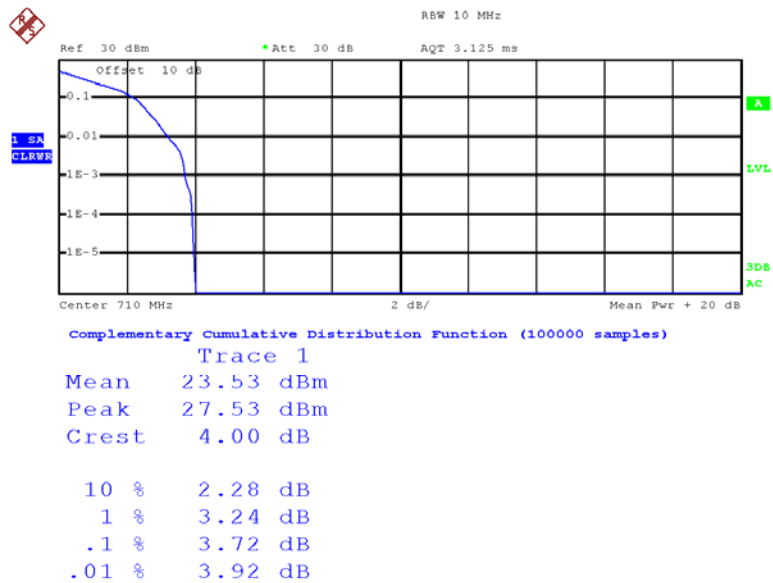
Date: 14.JUN.2016 00:32:44

16QAM 20MHz_FULL RB High Channel

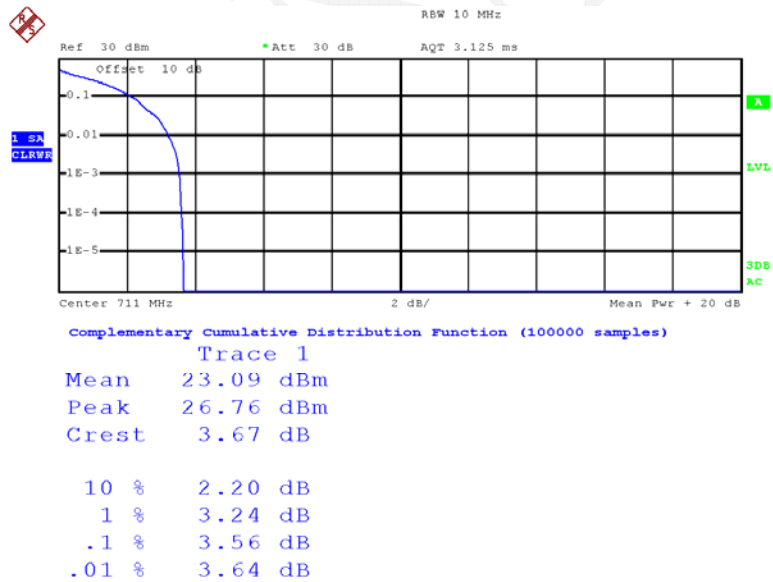
Date: 14.JUN.2016 00:36:29

LTE Band 17**QPSK_10MHz_1RB_Low Channel**

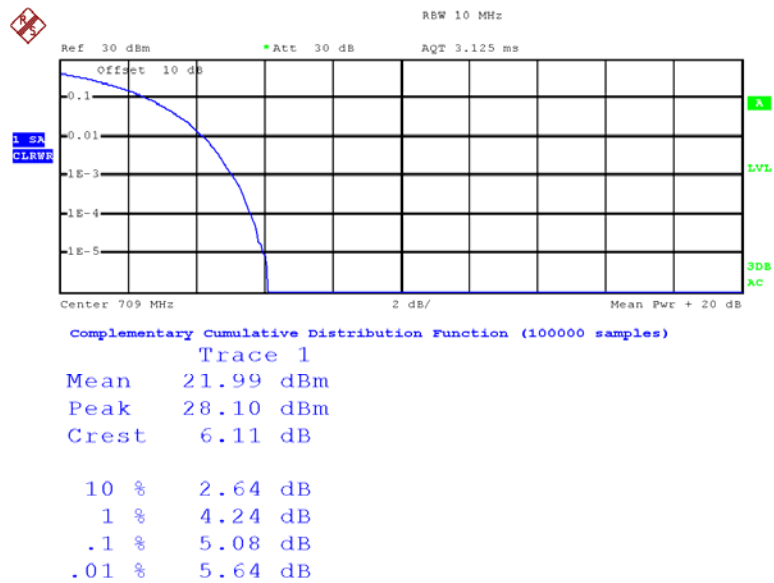
Date: 14.JUN.2016 00:28:28

QPSK_10MHz_1RB Middle Channel

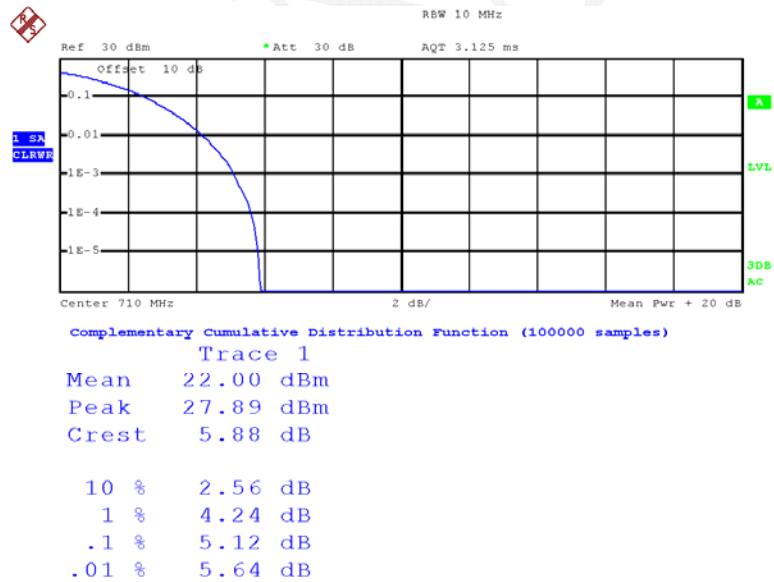
Date: 14.JUN.2016 00:26:24

QPSK_10MHz_1RB High Channel

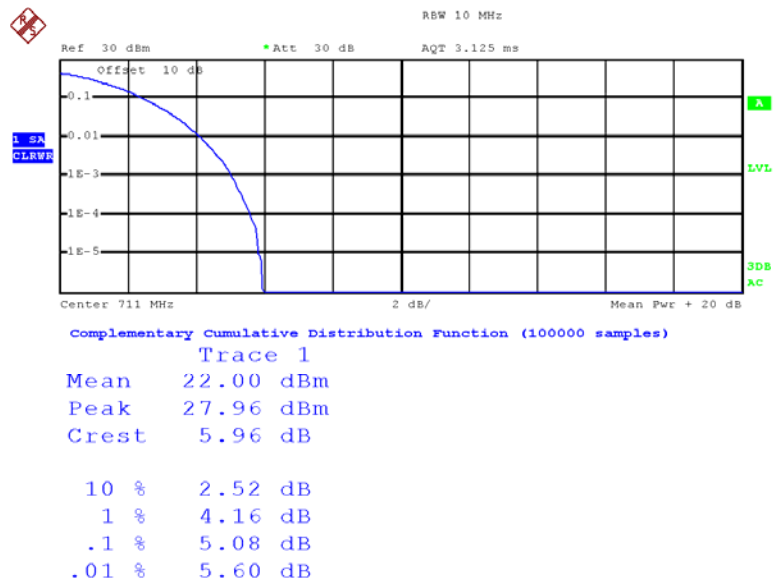
Date: 14.JUN.2016 00:30:42

QPSK_10MHz_FULL RB Low Channel

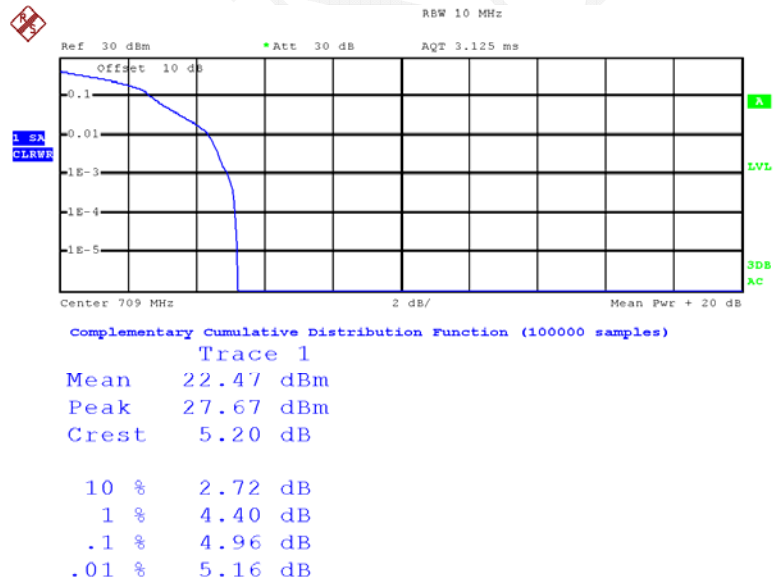
Date: 14.JUN.2016 00:28:37

QPSK_10MHz_FULL RB Middle Channel

Date: 14.JUN.2016 00:25:36

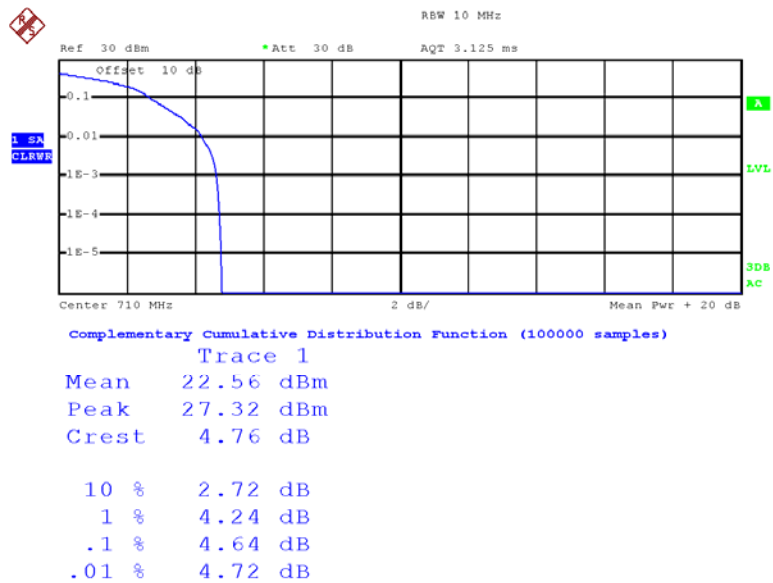
QPSK 10MHz_FULL RB High Channel

Date: 14.JUN.2016 00:30:30

16QAM_10MHz_1RB_Low Channel

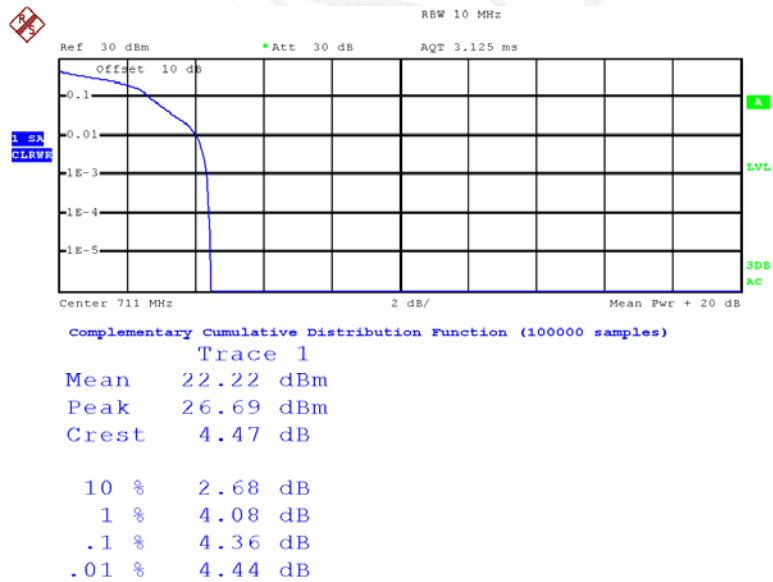
Date: 14.JUN.2016 00:28:15

16QAM 10MHz_1RB Middle Channel

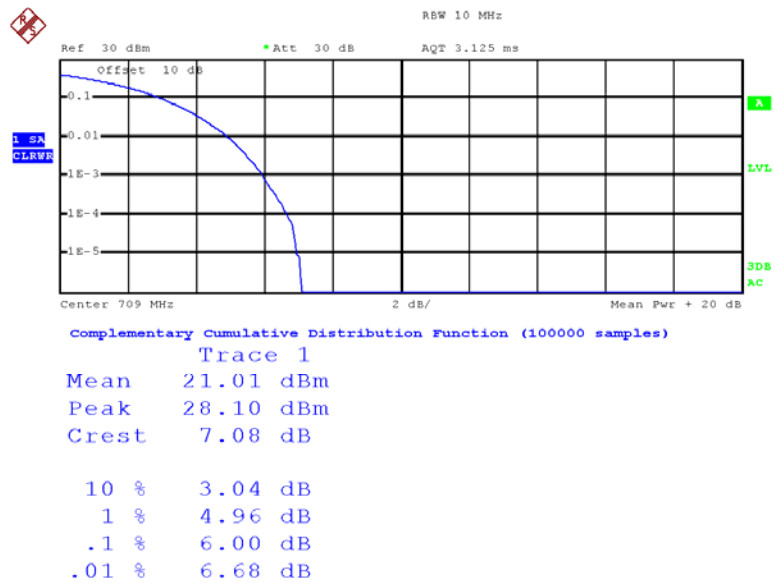


Date: 14.JUN.2016 00:26:39

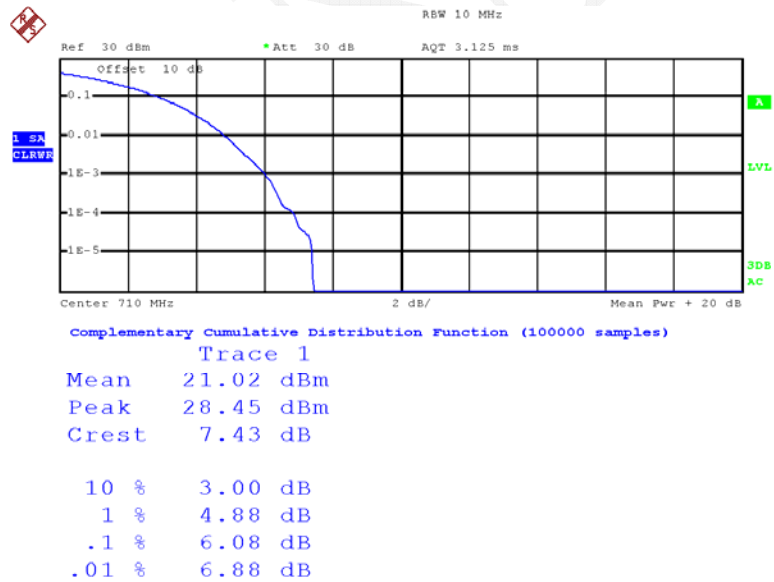
16QAM 10MHz_1RB High Channel



Date: 14.JUN.2016 00:30:48

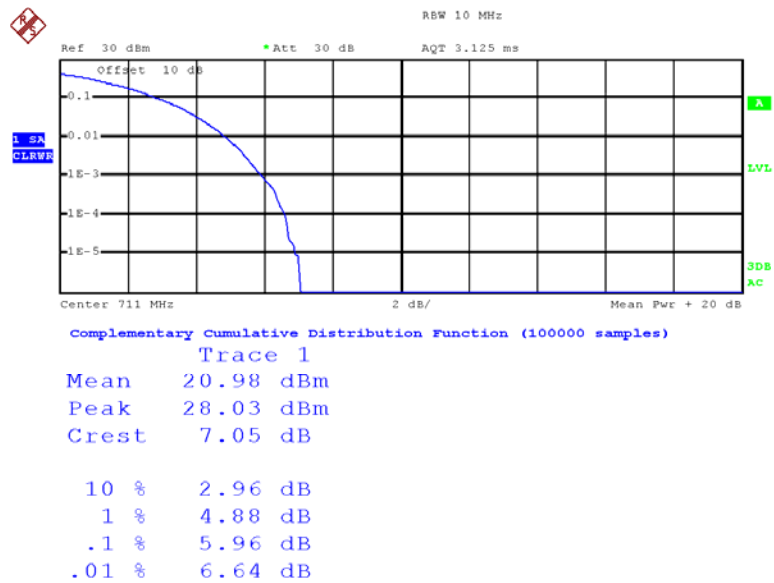
16QAM 10MHz_FULL RB Low Channel

Date: 14.JUN.2016 00:28:44

16QAM 10MHz_FULL RB Middle Channel

Date: 14.JUN.2016 00:25:13

16QAM 10MHz_FULL RB High Channel



Date: 14.JUN.2016 00:30:20

ERP & EIRP

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
GSM 850 Middle Channel								
836.600	H	97.94	23	0.0	1	22.0	38.45	16.5
836.600	V	103.69	31.9	0.0	1	30.9	38.45	7.6
EGPRS 850 Middle Channel								
836.600	H	95.60	20.7	0.0	1	19.7	38.45	18.8
836.600	V	96.47	24.7	0.0	1	23.7	38.45	14.8
WCDMA Band V Middle Channel								
836.600	H	90.56	15.6	0.0	1	14.6	38.45	23.9
836.600	V	91.68	19.9	0.0	1	18.9	38.45	19.6
PCS 1900 Middle Channel								
1880.000	H	89.93	18.3	11.7	1.4	28.6	33.0	4.4
1880.000	V	86.00	14.5	11.7	1.4	24.8	33.0	8.2
EGPRS 1900 Middle Channel								
1880.000	H	86.28	14.7	11.7	1.4	25.0	33.0	8.0
1880.000	V	82.54	11.1	11.7	1.4	21.4	33.0	11.6
WCDMA Band II Middle Channel								
1880.000	H	84.04	12.4	11.7	1.4	22.7	33.0	10.3
1880.000	V	81.19	9.7	11.7	1.4	20.0	33.0	13.0
WCDMA Band IV Middle Channel								
1732.600	V	84.72	11.4	10.9	1.4	20.9	30.0	9.1
1732.600	V	81.84	8.5	10.9	1.4	18.0	30.0	12.0

LTE Band II

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK 1.4 MHz Middle Channel								
1880.000	H	83.64	12	11.7	1.4	22.3	33.00	10.7
1880.000	V	81.86	10.4	11.7	1.4	20.7	33.00	12.3
QPSK 3 MHz Middle Channel								
1880.000	H	82.78	11.2	11.7	1.4	21.5	33.00	11.5
1880.000	V	80.83	9.4	11.7	1.4	19.7	33.00	13.3
QPSK 5 MHz Middle Channel								
1880.000	H	81.61	10	11.7	1.4	20.3	33.00	12.7
1880.000	V	79.23	7.8	11.7	1.4	18.1	33.00	14.9
QPSK 10 MHz Middle Channel								
1880.000	H	82.17	10.6	11.7	1.4	20.9	33.00	12.1
1880.000	V	79.04	7.6	11.7	1.4	17.9	33.00	15.1
QPSK 15 MHz Middle Channel								
1880.000	H	81.17	9.6	11.7	1.4	19.9	33.00	13.1
1880.000	V	77.05	5.6	11.7	1.4	15.9	33.00	17.1
QPSK 20 MHz Middle Channel								
1880.000	H	80.47	8.9	11.7	1.4	19.2	33.00	13.8
1880.000	V	76.04	4.6	11.7	1.4	14.9	33.00	18.1
16QAM 1.4 MHz Middle Channel								
1880.000	H	82.49	10.9	11.7	1.4	21.2	33.00	11.8
1880.000	V	80.65	9.2	11.7	1.4	19.5	33.00	13.5
16QAM 3 MHz Middle Channel								
1880.000	H	81.63	10	11.7	1.4	20.3	33.00	12.7
1880.000	V	79.43	8	11.7	1.4	18.3	33.00	14.7
16QAM 5 MHz Middle Channel								
1880.000	H	82.15	10.6	11.7	1.4	20.9	33.00	12.1
1880.000	V	78.65	7.2	11.7	1.4	17.5	33.00	15.5
16QAM 10 MHz Middle Channel								
1880.000	H	81.53	9.9	11.7	1.4	20.2	33.00	12.8
1880.000	V	77.11	5.7	11.7	1.4	16.0	33.00	17.0
16QAM 15 MHz Middle Channel								
1880.000	H	80.26	8.7	11.7	1.4	19.0	33.00	14.0
1880.000	V	76.25	4.8	11.7	1.4	15.1	33.00	17.9
16QAM 20 MHz Middle Channel								
1880.000	H	80.41	8.8	11.7	1.4	19.1	33.00	13.9
1880.000	V	75.97	4.5	11.7	1.4	14.8	33.00	18.2

LTE Band IV

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK 1.4 MHz Middle Channel								
1732.500	H	85.50	12.5	10.9	1.4	22.0	30.00	8.0
1732.500	V	83.54	10.2	10.9	1.4	19.7	30.00	10.3
QPSK 3 MHz Middle Channel								
1732.500	H	84.43	11.4	10.9	1.4	20.9	30.00	9.1
1732.500	V	82.36	9	10.9	1.4	18.5	30.00	11.5
QPSK 5 MHz Middle Channel								
1732.500	H	83.45	10.4	10.9	1.4	19.9	30.00	10.1
1732.500	V	81.48	8.2	10.9	1.4	17.7	30.00	12.3
QPSK 10 MHz Middle Channel								
1732.500	H	82.93	9.9	10.9	1.4	19.4	30.00	10.6
1732.500	V	80.24	6.9	10.9	1.4	16.4	30.00	13.6
QPSK 15 MHz Middle Channel								
1732.500	H	82.34	9.3	10.9	1.4	18.8	30.00	11.2
1732.500	V	77.21	3.9	10.9	1.4	13.4	30.00	16.6
QPSK 20 MHz Middle Channel								
1732.500	H	82.25	9.2	10.9	1.4	18.7	30.00	11.3
1732.500	V	76.11	2.8	10.9	1.4	12.3	30.00	17.7
16QAM 1.4 MHz Middle Channel								
1732.500	H	84.89	11.9	10.9	1.4	21.4	30.00	8.6
1732.500	V	82.76	9.4	10.9	1.4	18.9	30.00	11.1
16QAM 3 MHz Middle Channel								
1732.500	H	83.40	10.4	10.9	1.4	19.9	30.00	10.1
1732.500	V	81.21	7.9	10.9	1.4	17.4	30.00	12.6
16QAM 5 MHz Middle Channel								
1732.500	H	82.47	9.5	10.9	1.4	19.0	30.00	11.0
1732.500	V	80.27	6.9	10.9	1.4	16.4	30.00	13.6
16QAM 10 MHz Middle Channel								
1732.500	H	82.08	9.1	10.9	1.4	18.6	30.00	12.4
1732.500	V	79.22	5.9	10.9	1.4	15.4	30.00	14.6
16QAM 15 MHz Middle Channel								
1732.500	H	82.55	9.5	10.9	1.4	19.0	30.00	11.0
1732.500	V	76.16	2.8	10.9	1.4	12.3	30.00	17.7
16QAM 20 MHz Middle Channel								
1732.500	H	81.29	8.3	10.9	1.4	17.8	30.00	12.2
1732.500	V	75.13	1.8	10.9	1.4	11.3	30.00	18.7

LTE Band V

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK 1.4 MHz Middle Channel								
836.500	H	90.72	15.8	0.0	1	14.8	38.45	23.65
836.500	V	93.97	22.2	0.0	1	21.2	38.45	17.25
QPSK 3 MHz Middle Channel								
836.500	H	89.63	14.7	0.0	1	13.7	38.45	24.75
836.500	V	92.56	20.8	0.0	1	19.8	38.45	18.65
QPSK 5 MHz Middle Channel								
836.500	H	88.52	13.6	0.0	1	12.6	38.45	25.85
836.500	V	92.66	20.9	0.0	1	19.9	38.45	18.55
QPSK 10 MHz Middle Channel								
836.500	H	87.26	12.3	0.0	1	11.3	38.45	27.15
836.500	V	92.60	20.8	0.0	1	19.8	38.45	18.65
16QAM 1.4 MHz Middle Channel								
836.500	H	89.94	15	0.0	1	14	38.45	24.45
836.500	V	92.78	21	0.0	1	20	38.45	18.45
16QAM 3 MHz Middle Channel								
836.500	H	88.80	13.9	0.0	1	12.9	38.45	25.55
836.500	V	91.89	20.1	0.0	1	19.1	38.45	19.35
16QAM 5 MHz Middle Channel								
836.500	H	87.79	12.9	0.0	1	11.9	38.45	26.55
836.500	V	92.42	20.6	0.0	1	19.6	38.45	18.85
16QAM 10 MHz Middle Channel								
836.500	H	86.43	11.5	0.0	1	10.5	38.45	27.95
836.500	V	92.19	20.4	0.0	1	19.4	38.45	19.05

LTE Band VII

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			S.G. Level (dBm)	Antenna Gain (dBd/ dBi)	Cable Loss (dB)			
QPSK 5 MHz Middle Channel								
2535.000	H	83.45	12.2	13.1	2.5	22.8	33.00	10.2
2535.000	V	76.23	6.5	13.1	2.5	17.1	33.00	15.9
QPSK 10 MHz Middle Channel								
2535.000	H	82.80	11.6	13.1	2.5	22.2	33.00	10.8
2535.000	V	75.65	5.9	13.1	2.5	16.5	33.00	16.5
QPSK 15 MHz Middle Channel								
2535.000	H	81.65	10.4	13.1	2.5	21.0	33.00	12.0
2535.000	V	74.71	5	13.1	2.5	15.6	33.00	17.4
QPSK 20 MHz Middle Channel								
2535.000	H	80.69	9.5	13.1	2.5	20.1	33.00	12.9
2535.000	V	73.78	4	13.1	2.5	14.6	33.00	18.4
16QAM 5 MHz Middle Channel								
2535.000	H	82.66	11.5	13.1	2.5	22.1	33.00	10.9
2535.000	V	75.42	5.7	13.1	2.5	16.3	33.00	16.7
16QAM 10 MHz Middle Channel								
2535.000	H	81.12	9.9	13.1	2.5	20.5	33.00	12.5
2535.000	V	74.93	5.2	13.1	2.5	15.8	33.00	17.2
16QAM 15 MHz Middle Channel								
2535.000	H	80.53	9.3	13.1	2.5	19.9	33.00	13.1
2535.000	V	73.67	3.9	13.1	2.5	14.5	33.00	18.5
16QAM 20 MHz Middle Channel								
2535.000	H	79.03	7.8	13.1	2.5	18.4	33.00	14.6
2535.000	V	72.22	2.5	13.1	2.5	13.1	33.00	19.9

LTE Band 17

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK 5 MHz Middle Channel								
710.000	H	89.43	12.6	0.0	0.9	11.7	33.00	21.3
710.000	V	95.89	21.5	0.0	0.9	20.6	33.00	12.4
QPSK 10 MHz Middle Channel								
710.000	H	88.28	11.5	0.0	0.9	10.6	33.00	22.4
710.000	V	94.13	19.8	0.0	0.9	18.9	33.00	14.1
16QAM 5 MHz Middle Channel								
710.000	H	88.60	11.8	0.0	0.9	10.9	33.00	22.1
710.000	V	94.75	20.4	0.0	0.9	19.5	33.00	13.5
16QAM 10 MHz Middle Channel								
710.000	H	87.61	10.8	0.0	0.9	9.9	33.00	23.1
710.000	V	93.46	19.1	0.0	0.9	18.2	33.00	14.8

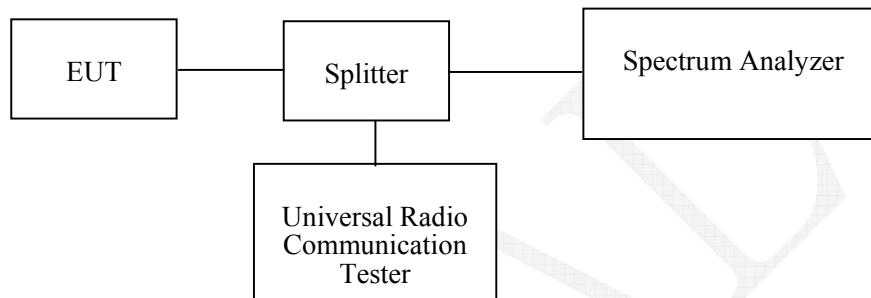
FCC §2.1049, §22.917, §22.905 & §24.238 & §27.53- OCCUPIED BANDWIDTH**Applicable Standard**

FCC §2.1049, §22.917, §22.905, §24.238 and §27.53.

Test Procedure

The RF output of the transmitter was connected to the simulator and the spectrum analyzer through sufficient attenuation.

The 26 dB & 99% bandwidth was recorded.

**Test Equipment List and Details**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSP 38	100478	2015-11-23	2016-11-22
R&S	Spectrum Analyzer	FSEM	831259/019	2015-07-28	2016-07-27
R&S	Universal Radio Communication Tester	CMU200	109 038	2015-07-28	2016-07-27
R&S	Wideband Radio Communication Tester	CMW500	106891	2015-11-23	2016-11-23
N/A	Coaxial Cable	0.1m	N/A	2016-05-06	2017-05-06
E-Microwave	DC Blocking	EMDCB-00036	0E01201047	2016-05-06	2017-05-06
E-Microwave	Attenuator	EMCA10-5RN	0E01203239	2016-05-08	2017-05-08
Pasternack	RF Coaxial Cable	RF-01	N/A	2016-05-06	2017-05-06
Pasternack	RF Coaxial Cable	RF-02	N/A	2016-05-06	2017-05-06
N/A	Two-way Splitter	ODP-1-6-2S	0E0120142	2016-05-06	2017-05-06

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data**Environmental Conditions**

Temperature:	26.3 ~ 27.2 °C
Relative Humidity:	56 ~ 57%
ATM Pressure:	99.9 ~ 100 kPa

The testing was performed by Lion Xiao from 2016-06-13 to 2016-06-14.

Test Mode: Transmitting

Test Result: Compliant. Please refer to the following table and plots.

Band	Channel No.	Mode	99% Occupied Bandwidth (MHz)	26 dB Occupied Bandwidth (MHz)
Cellular	190	GSM	0.248	0.322
		EDGE	0.244	0.318
PCS	661	PCS	0.244	0.312
		EDGE	0.246	0.316
WCDMA Band II	9400	Rel 99	4.220	4.900
	9400	HSDPA	4.220	4.900
	9400	HSUPA	4.200	4.900
WCDMA Band IV	1413	Rel 99	4.240	4.900
	1413	HSDPA	4.240	5.000
	1413	HSUPA	4.240	4.900
WCDMA Band V	4175	Rel 99	4.200	4.900
	4175	HSDPA	4.220	4.800
	4175	HSUPA	4.200	4.880

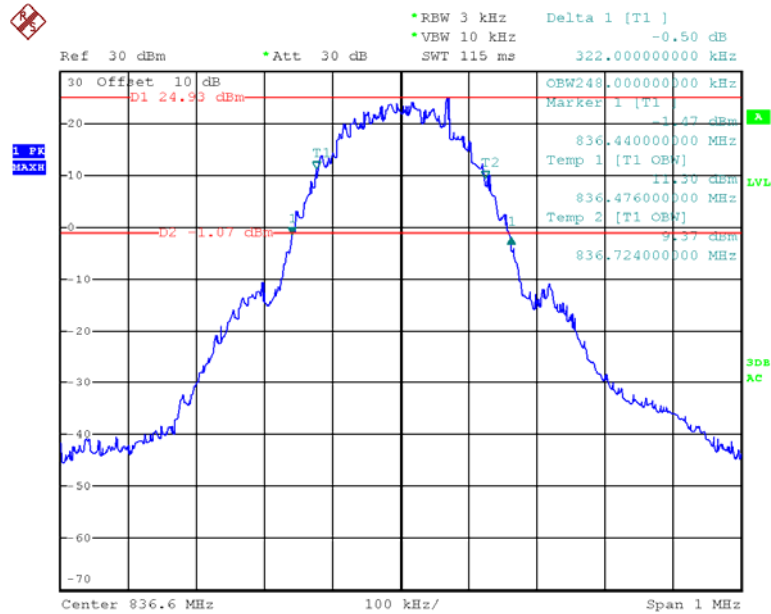
Band	Test Modulation	Test Bandwidth (MHz)	Test Channel	99% Occupied Bandwidth (MHz)	26 dB Occupied Bandwidth (MHz)
LTE Band II	QPSK	1.4	M	1.104	1.326
		3		2.760	3.072
		5		4.560	5.120
		10		9.160	10.400
		15		13.620	15.240
		20		18.000	19.840
	16QAM	1.4	M	1.110	1.314
		3		2.760	3.060
		5		4.560	5.120
		10		9.120	10.360
		15		13.560	15.120
		20		18.000	19.600

Band	Test Modulation	Test Bandwidth (MHz)	Test Channel	99% Occupied Bandwidth (MHz)	26 dB Occupied Bandwidth (MHz)
LTE Band IV	QPSK	1.4	M	1.098	1.296
		3		2.740	3.096
		5		4.520	5.040
		10		9.080	10.400
		15		13.500	15.060
		20		17.920	19.520
	16QAM	1.4	M	1.110	1.308
		3		2.748	3.084
		5		4.520	5.060
		10		9.120	10.280
		15		13.500	14.940
		20		18.000	19.600

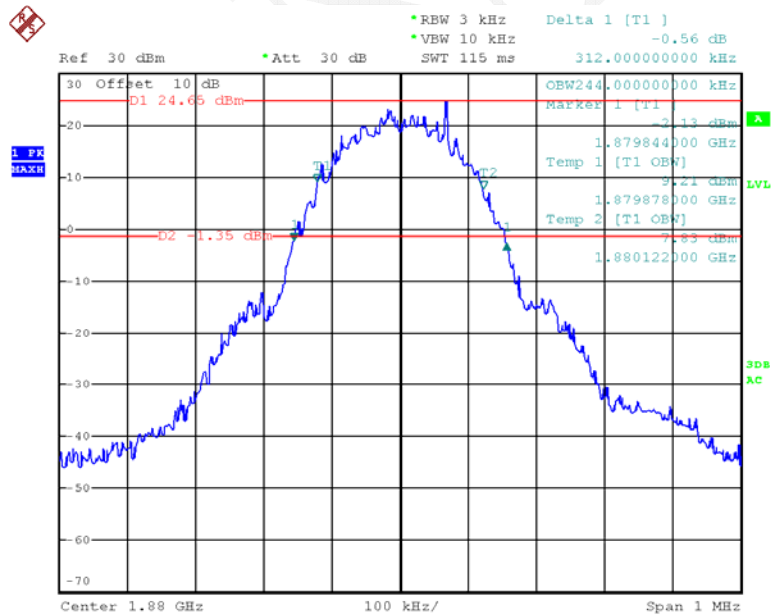
Band	Test Modulation	Test Bandwidth (MHz)	Test Channel	99% Occupied Bandwidth (MHz)	26 dB Occupied Bandwidth (MHz)
LTE Band V	QPSK	1.4	M	1.098	1.278
		3		2.736	3.072
		5		4.540	5.040
		10		9.120	10.320
	16QAM	1.4	M	1.104	1.290
		3		2.748	3.060
		5		4.540	5.140
		10		9.120	10.280

Band	Test Modulation	Test Bandwidth (MHz)	Test Channel	99% Occupied Bandwidth (MHz)	26 dB Occupied Bandwidth (MHz)
LTE Band VII	QPSK	5	M	4.560	5.160
		10		9.160	10.400
		15		13.620	15.240
		20		18.080	19.840
	16QAM	5	M	4.560	5.200
		10		9.160	10.440
		15		13.620	15.180
		20		18.080	19.760

Band	Test Modulation	Test Bandwidth (MHz)	Test Channel	99% Occupied Bandwidth (MHz)	26 dB Occupied Bandwidth (MHz)
LTE Band XVII	QPSK	5	M	4.520	5.060
		10		9.080	10.360
	16QAM	5	M	4.520	5.120
		10		9.080	10.200

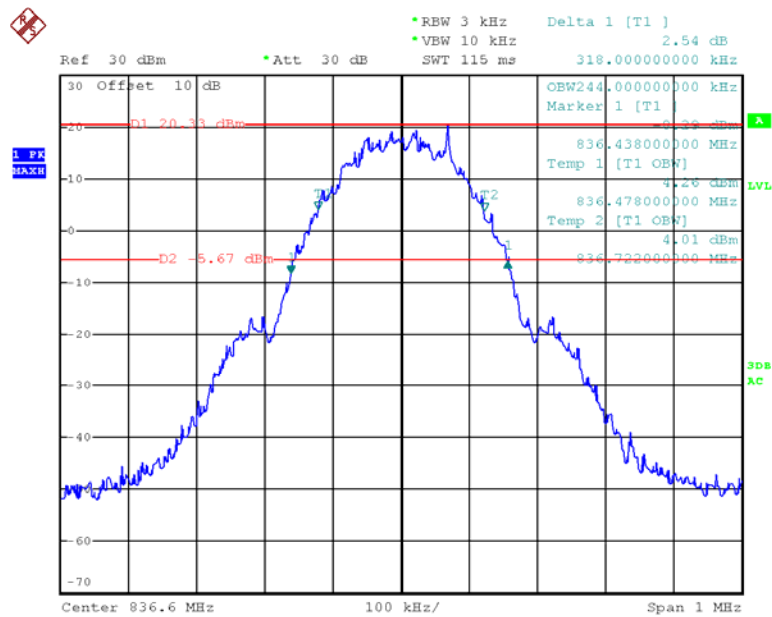
GMSK 850 Cellular Band

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GMSK PCS Band

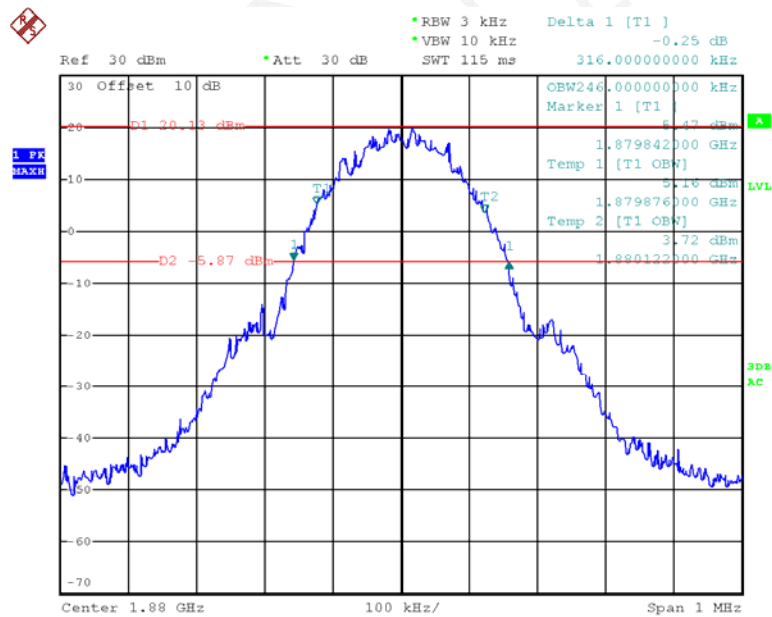
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EDGE 850 Cellular Band



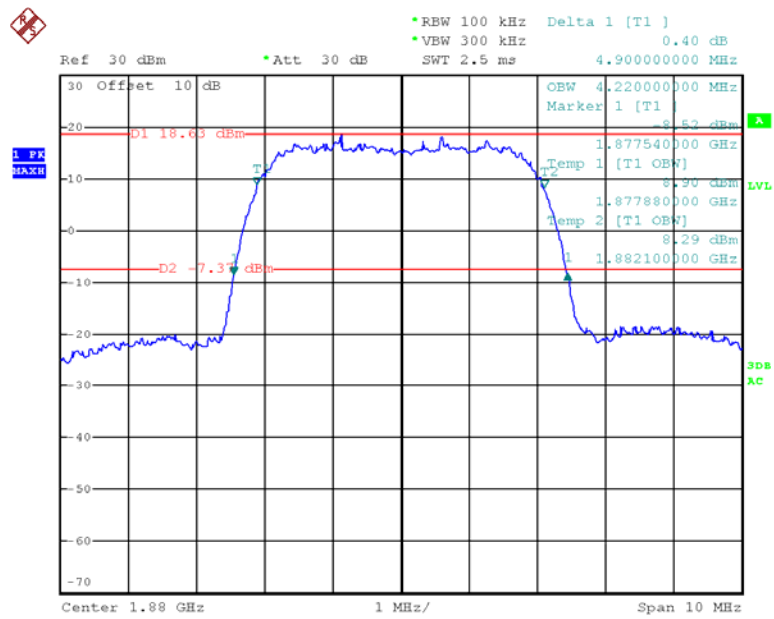
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EDGE PCS Band



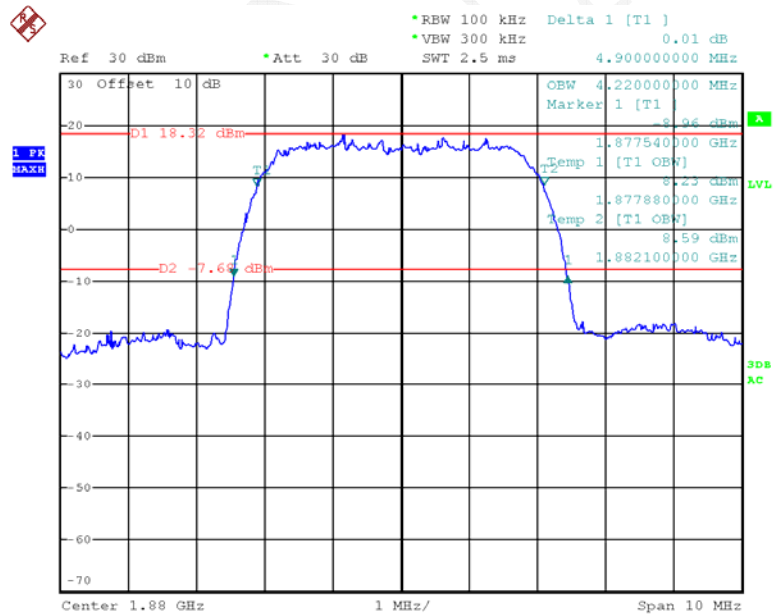
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REL99 Band II



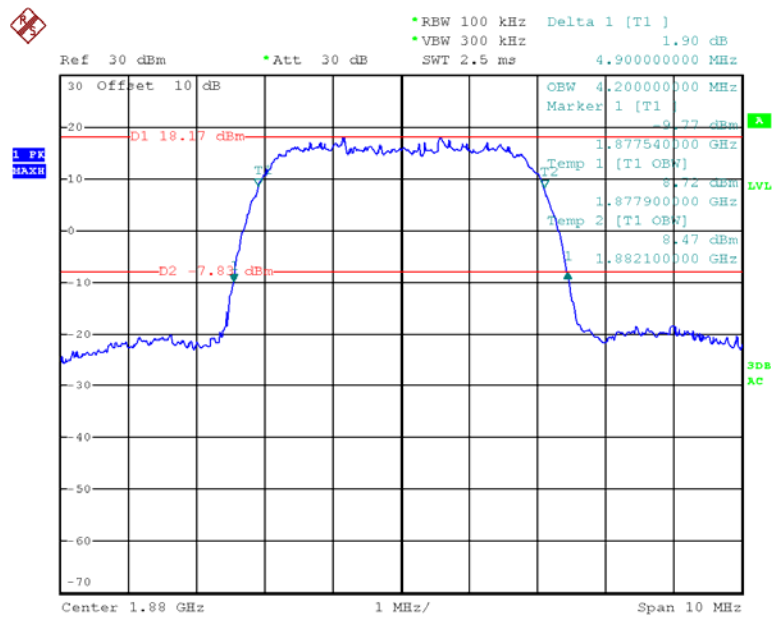
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HSDPA Band II



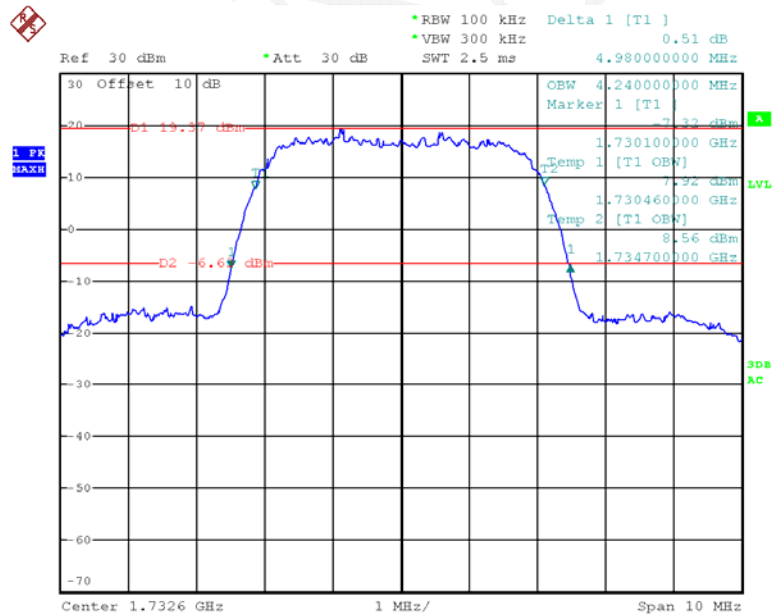
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HSUPA Band II



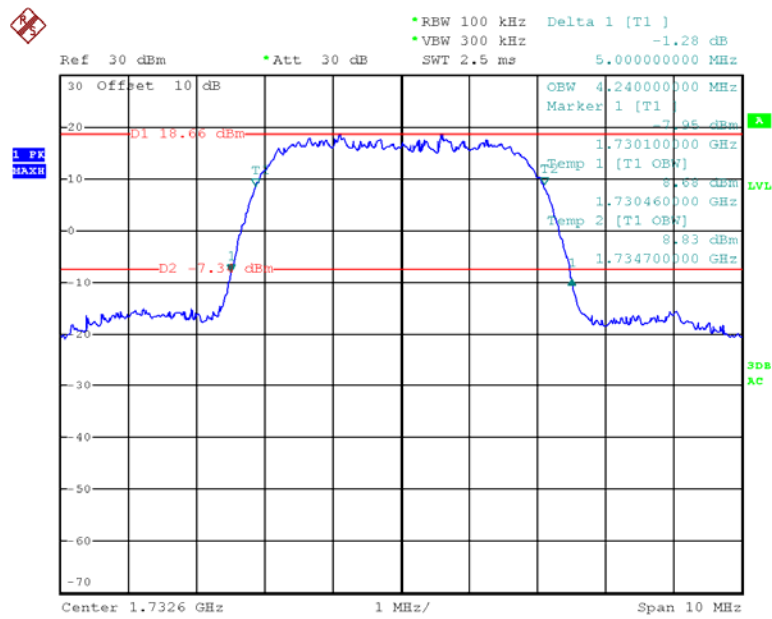
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REL99 Band IV



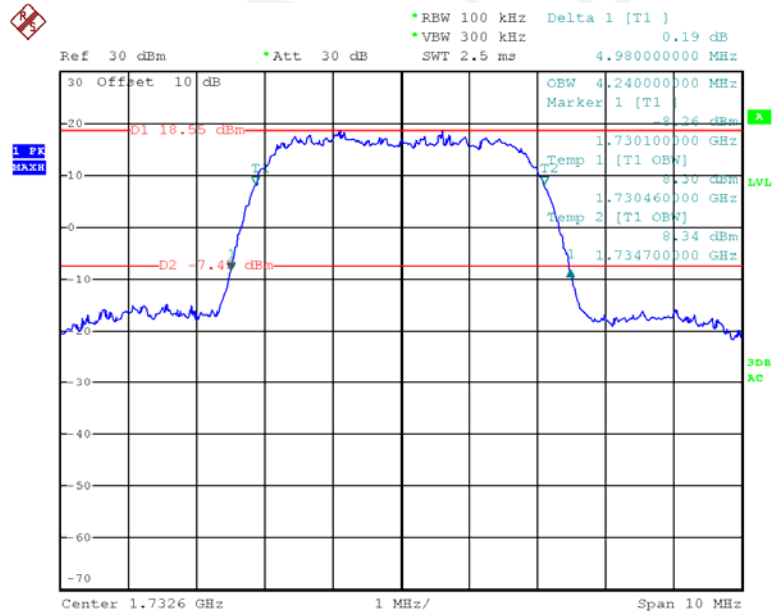
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HSDPA Band IV

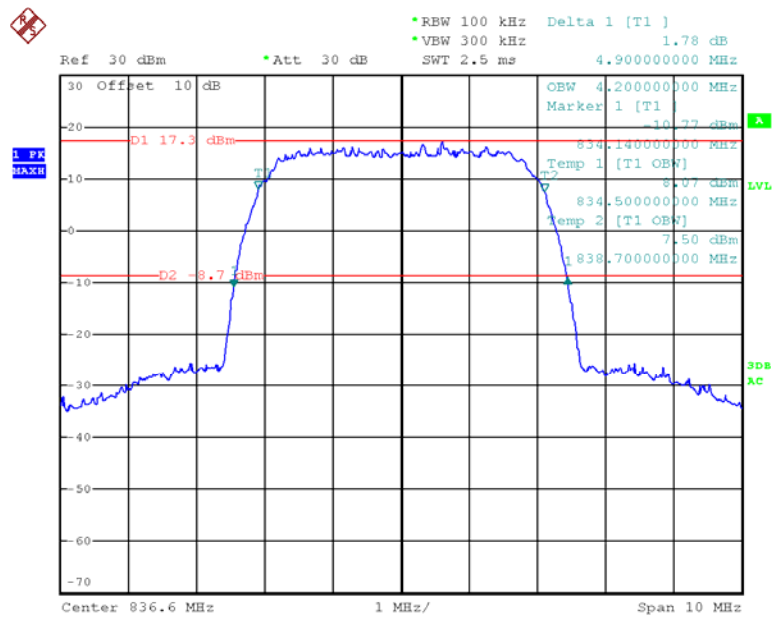


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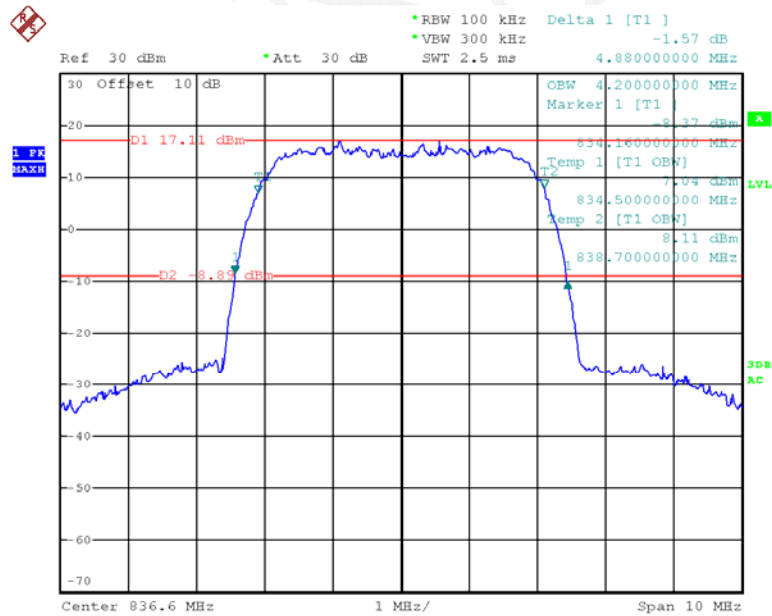
HSUPA Band IV



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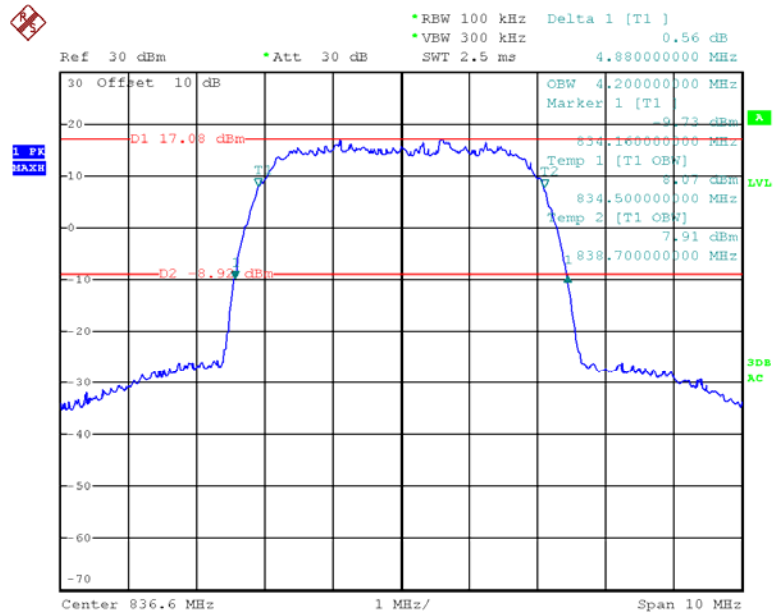
REL99 Band V

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HSDPA Band V

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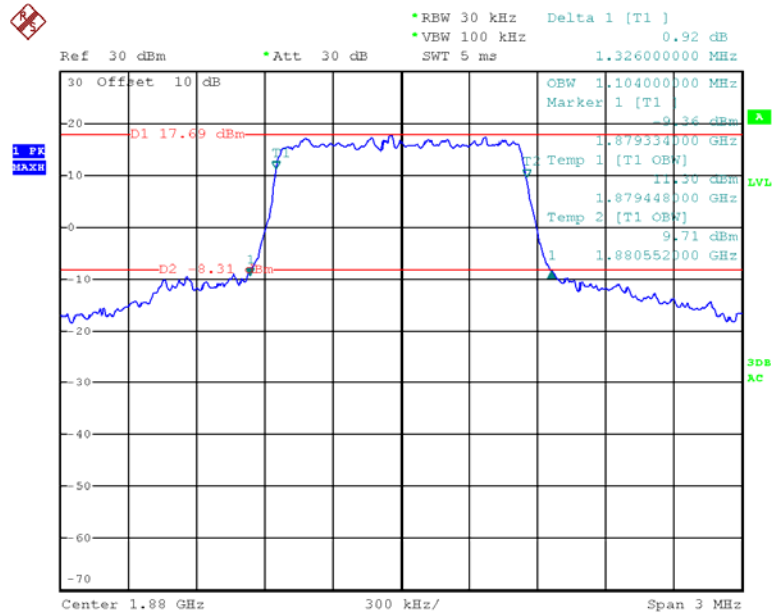
HSUPA Band V



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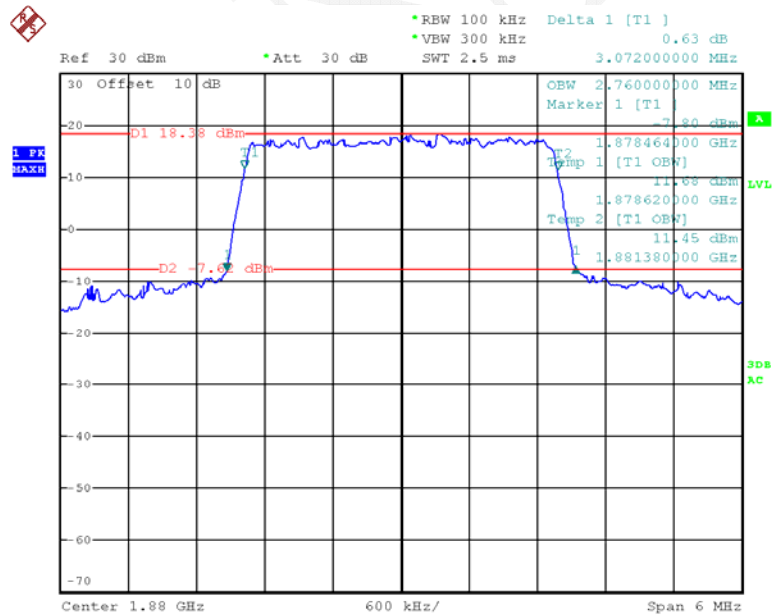
LTE Band II

QPSK_1.4 MHz



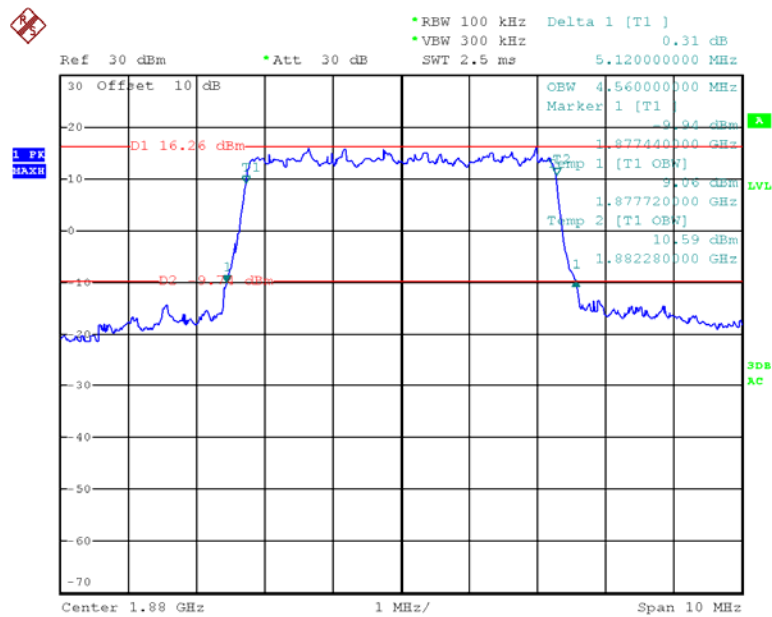
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QPSK_3 MHz



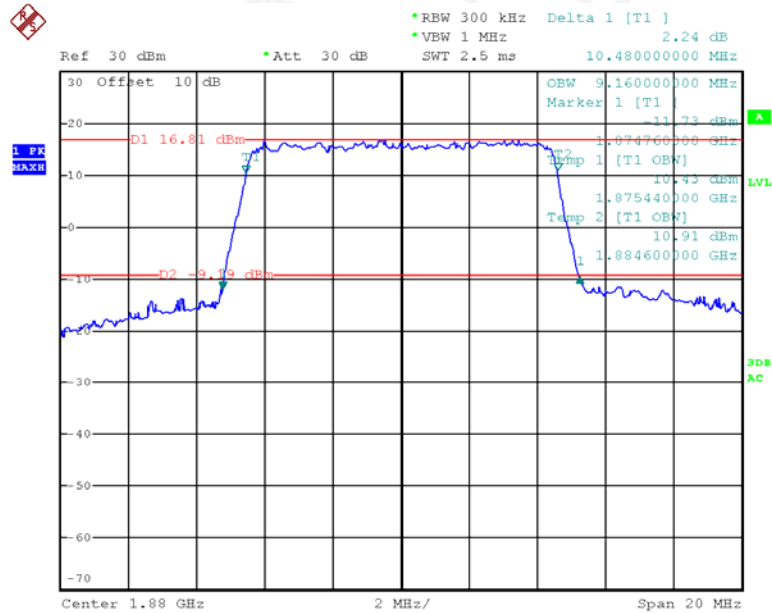
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QPSK_5 MHz



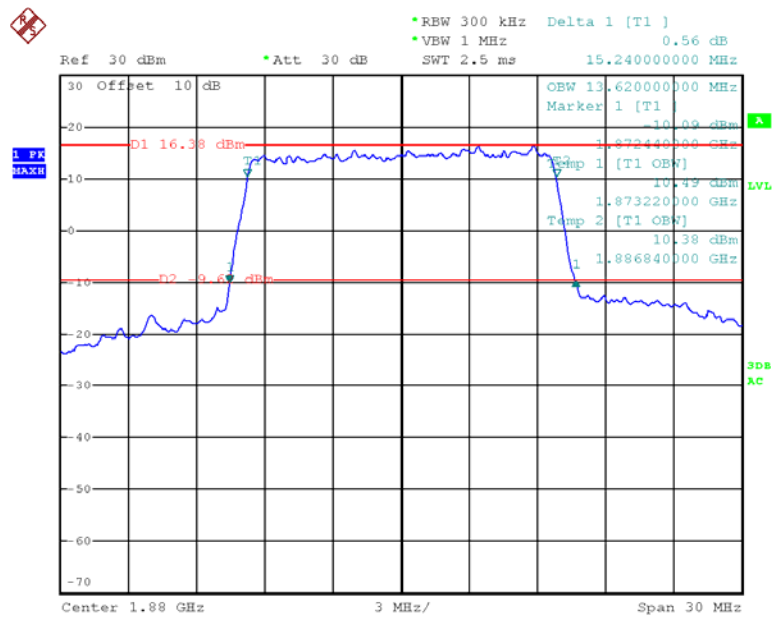
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QPSK_10 MHz



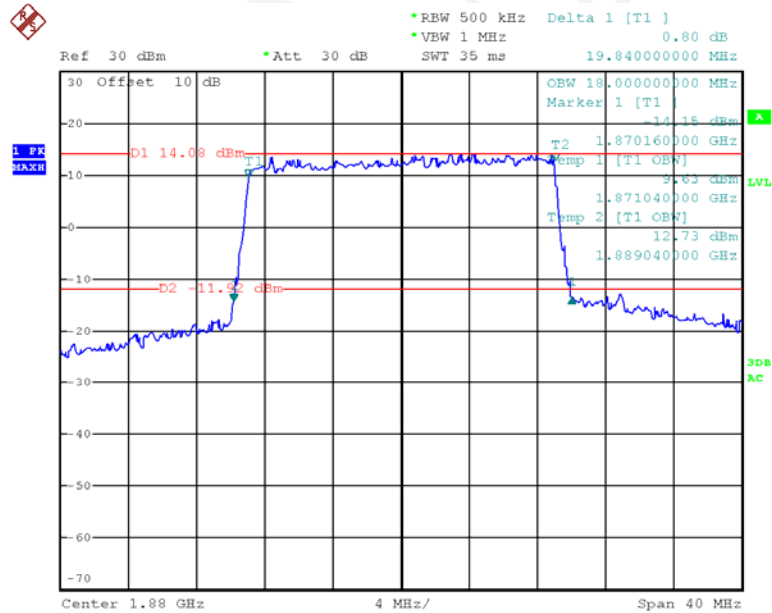
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QPSK_15 MHz



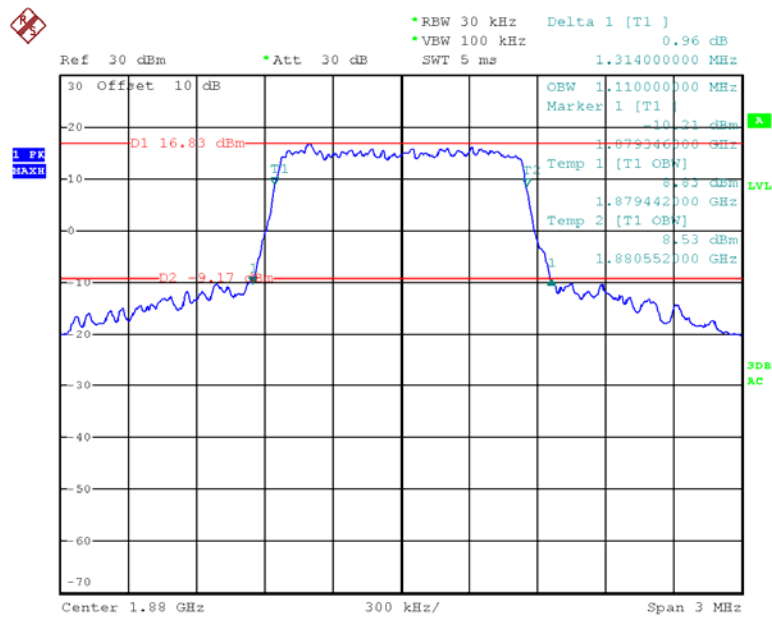
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QPSK_20 MHz



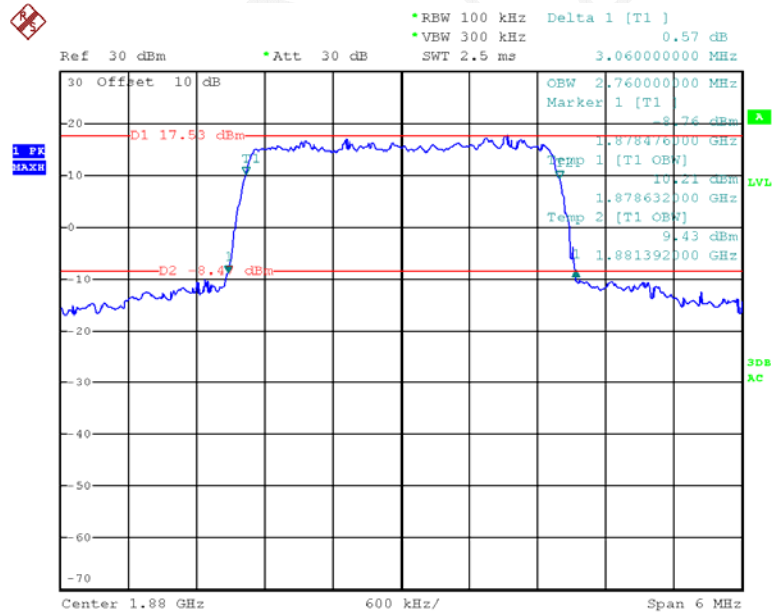
Date: 13.JUN.2016 23:53:16

16QAM_1.4 MHz



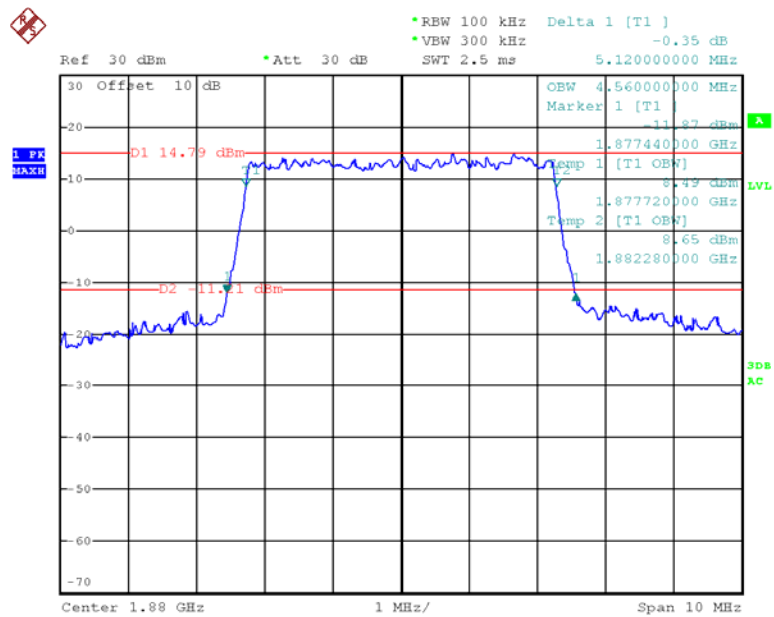
Date: 13.JUN.2016 23:09:52

16QAM_3 MHz



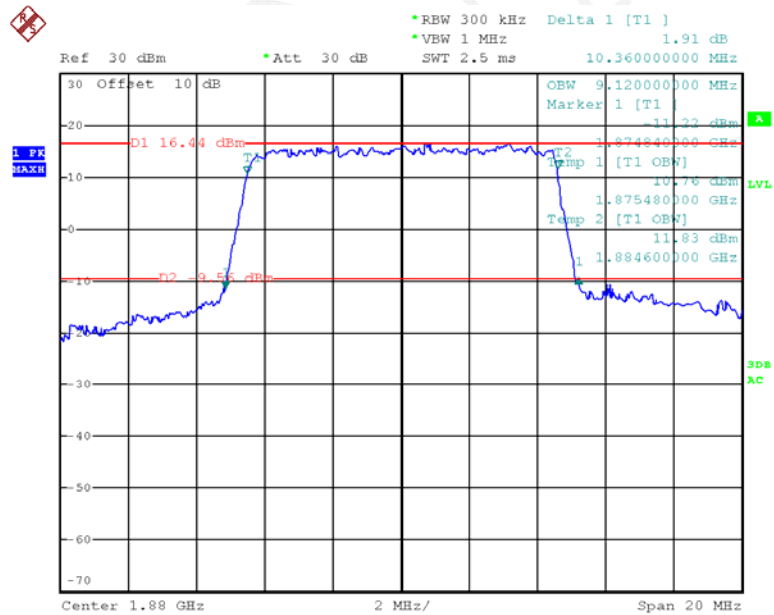
Date: 13.JUN.2016 23:37:13

16QAM_5 MHz



Date: 13.JUN.2016 23:39:20

16QAM_10 MHz



Date: 13.JUN.2016 23:40:20

• RBW 300 kHz Delta 1 [T1]
 • VEW 1 MHz 0.87 dB
 • Att 30 dB
 • SWT 2.5 ms
 15.120000000 MHz

30 Offset 10 dB
 Ref 30 dBm

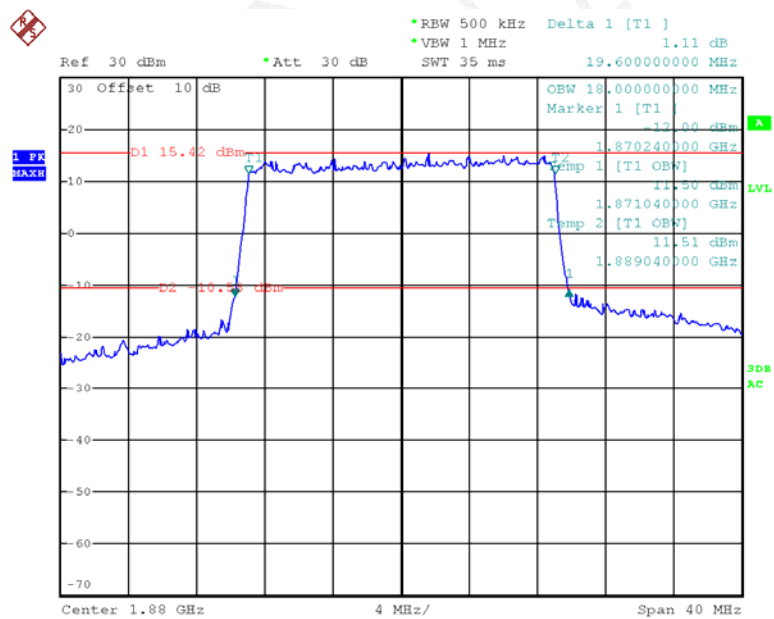
OBW 13.560000000 MHz
 Marker 1 [T1] 11.55 dBm
 1.872500000 GHz
 15.32 dBm
 1.873280000 GHz
 10.98 dBm
 1.873280000 GHz
 1.886840000 GHz
 9.39 dBm

1 PK
 MAXH

LVL
 SDR
 AC

Center 1.88 GHz
 3 MHz/
 Span 30 MHz

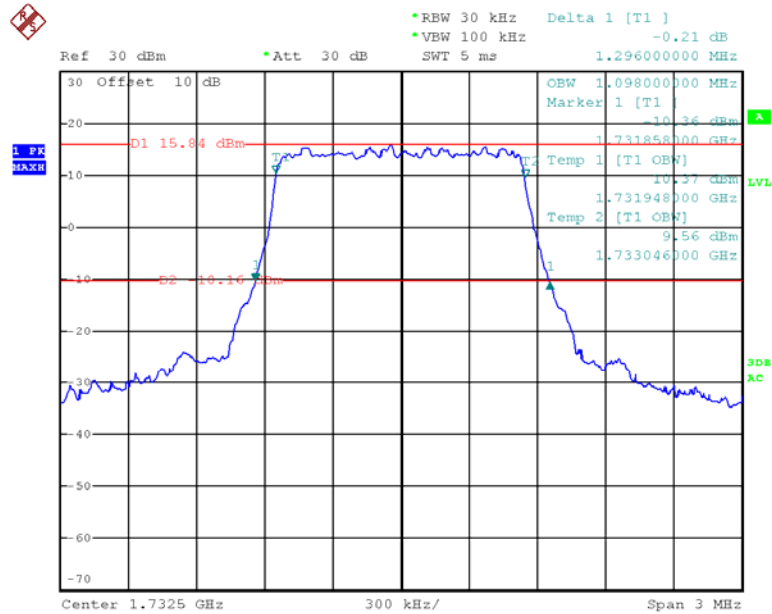
16QAM_20 MHz



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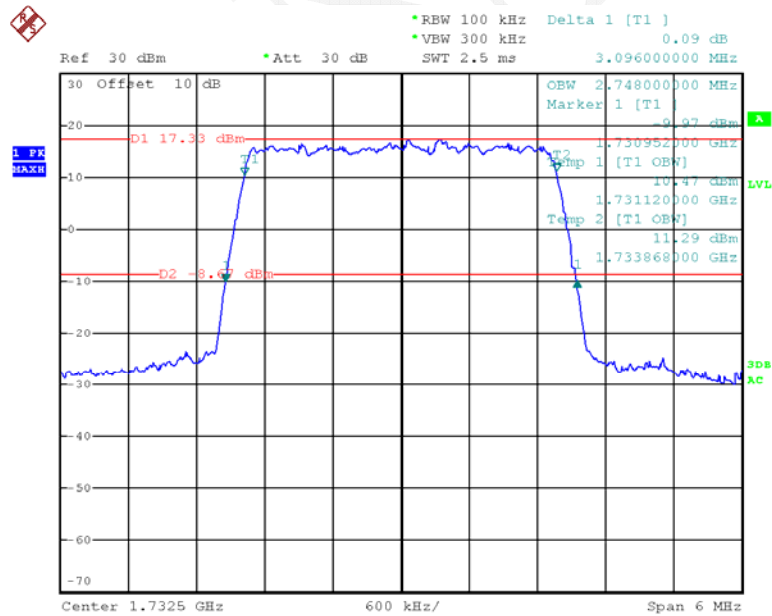
LTE Band IV

QPSK_1.4 MHz



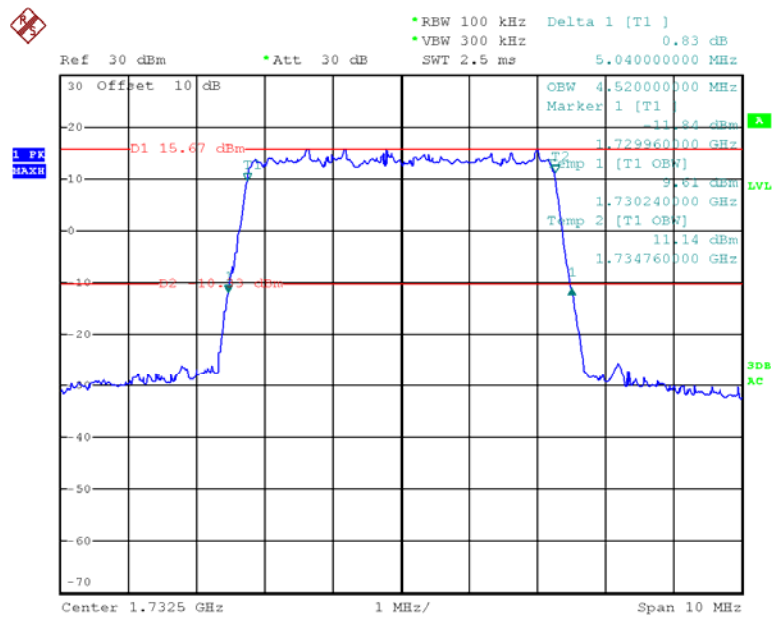
Date: 14.JUN.2016 22:14:17

QPSK_3 MHz



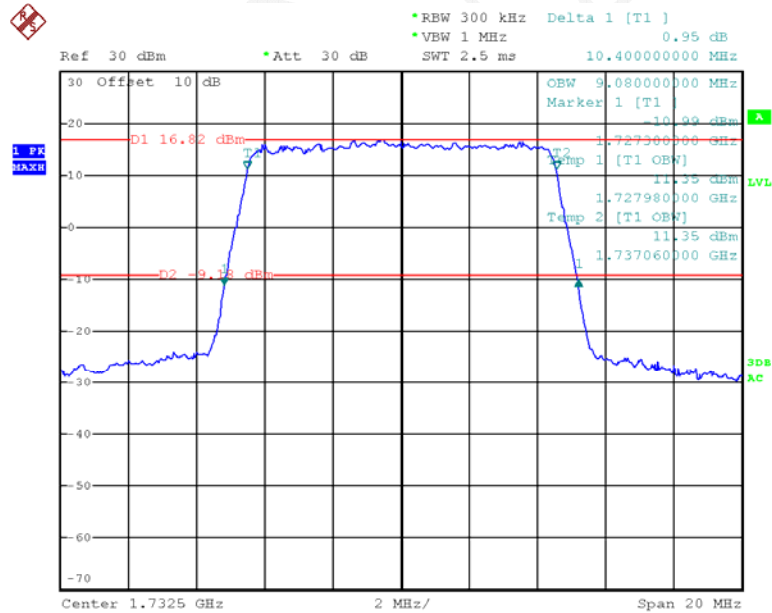
Date: 14.JUN.2016 22:16:19

QPSK_5 MHz



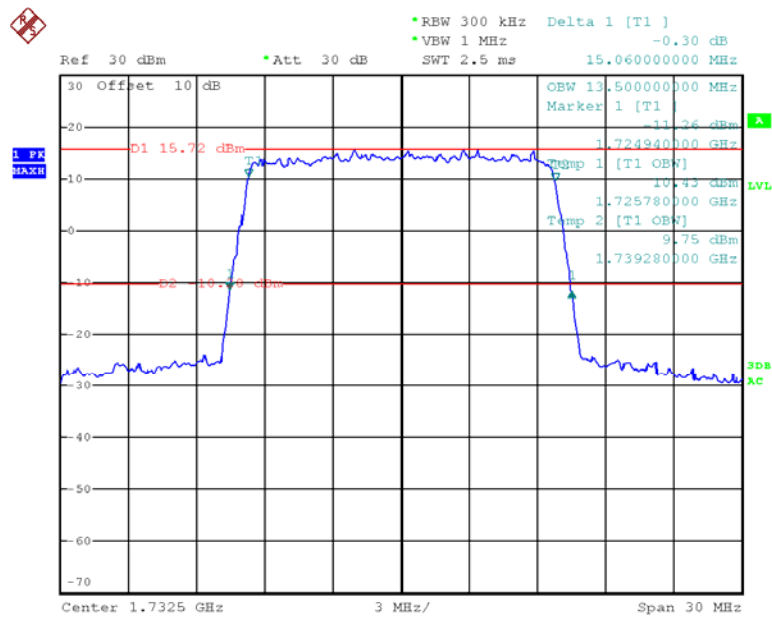
Date: 14.JUN.2016 22:18:13

QPSK_10 MHz



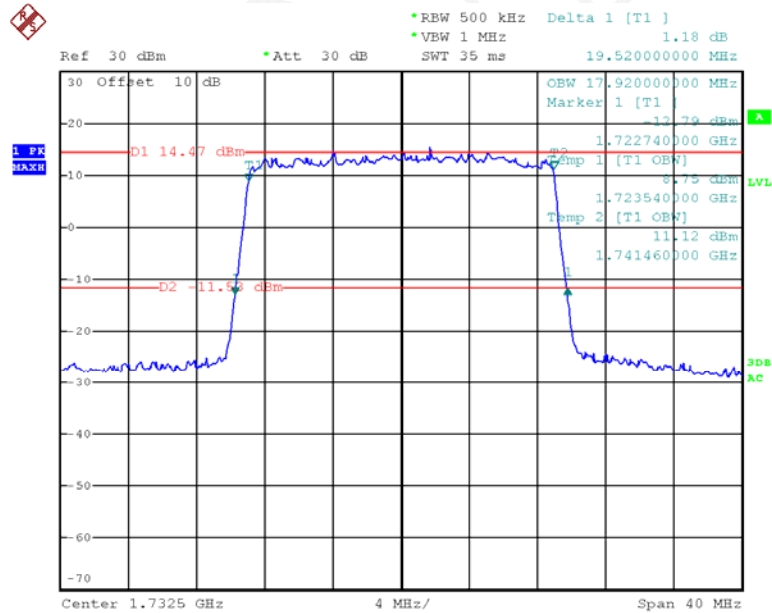
Date: 14.JUN.2016 22:21:44

QPSK_15 MHz



Date: 14.JUN.2016 22:23:03

QPSK_20 MHz



Date: 14.JUN.2016 22:26:16

* RBW 30 kHz Delta 1 [T1]
 * VEW 100 kHz 0.76 dB
 * Att 30 dB
 * SWT 5 ms 1.308000000 MHz

Ref 30 dBm
 30 Offset 10 dB

1 PK
 MAXH

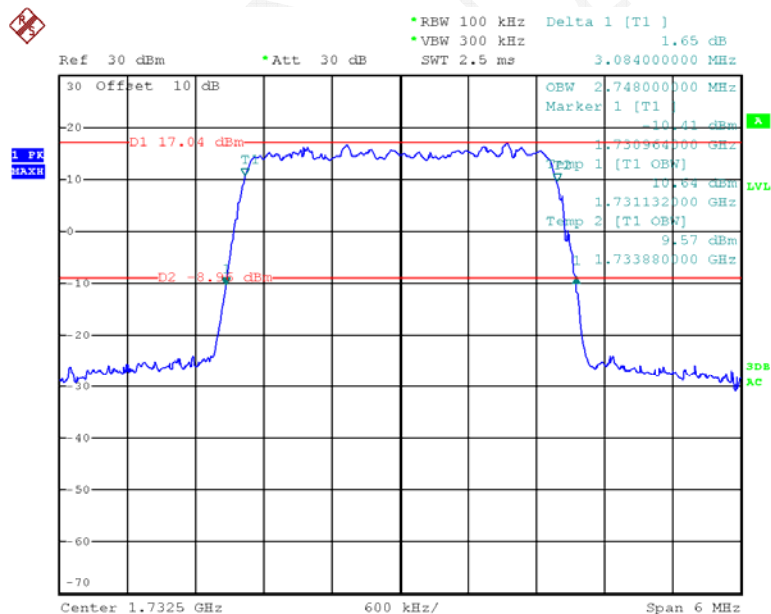
D1 15.68 dBm
 D2 10.92 dBm

CBW 1.110000000 MHz
 Marker 1 [T1] 10.61 dBm
 1.731840000 GHz
 Temp 1 [T1 OBW] 7.48 dBm
 1.731942000 GHz
 Temp 2 [T1 OBW] 6.82 dBm
 1.733052000 GHz

30 dB
 AC

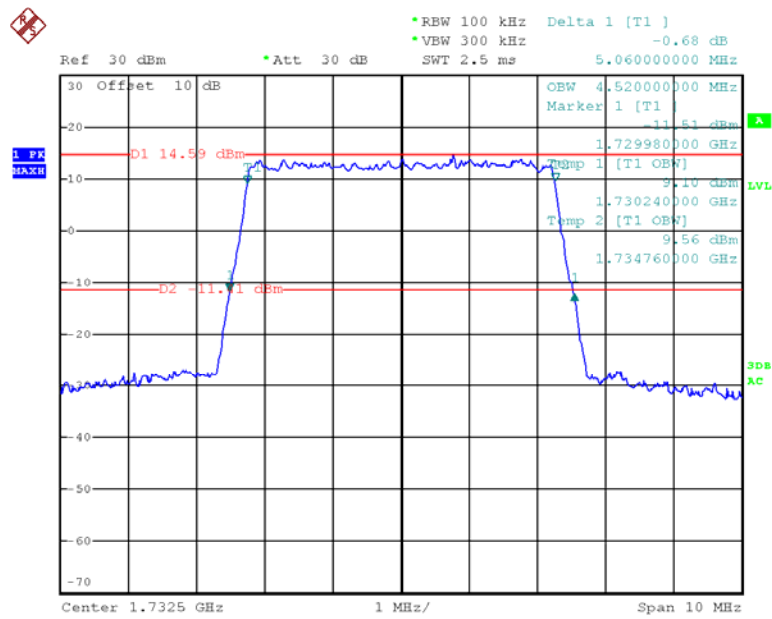
Center 1.7325 GHz
 300 kHz/
 Span 3 MHz

16QAM_3 MHz



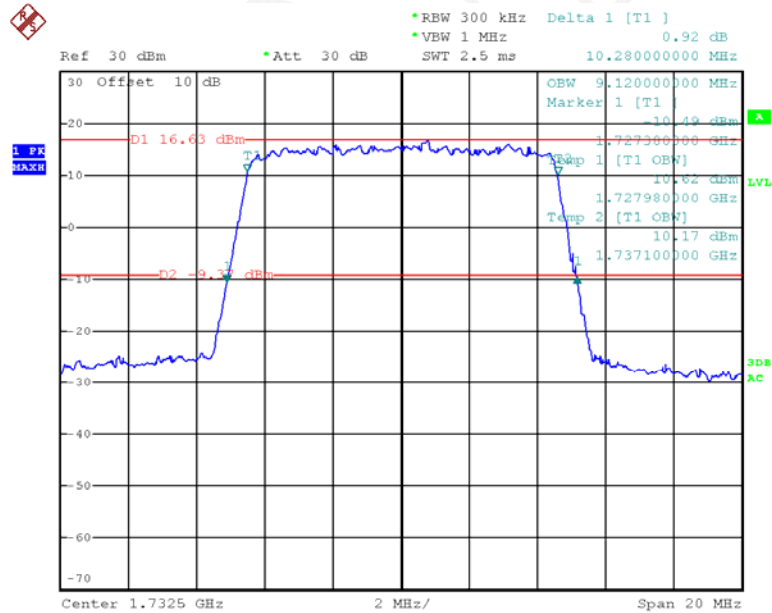
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16QAM_5 MHz



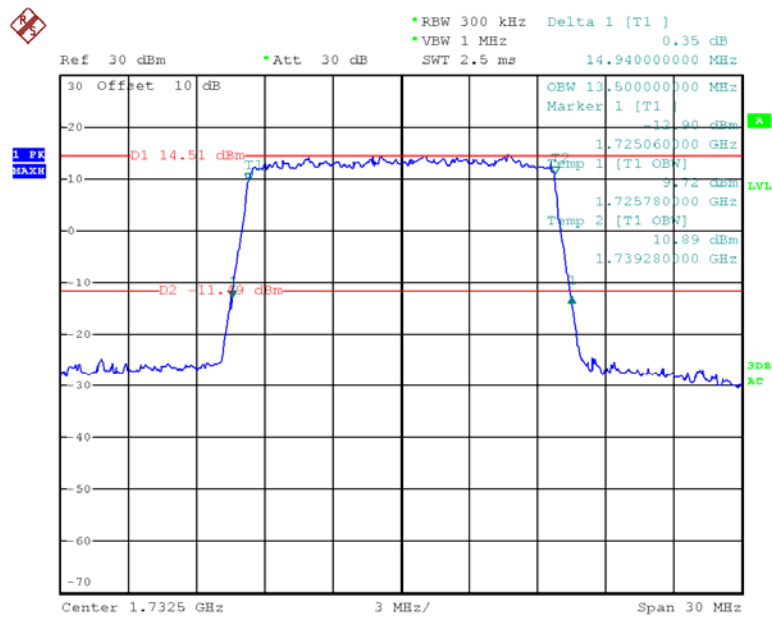
Date: 14.JUN.2016 22:19:18

16QAM_10 MHz



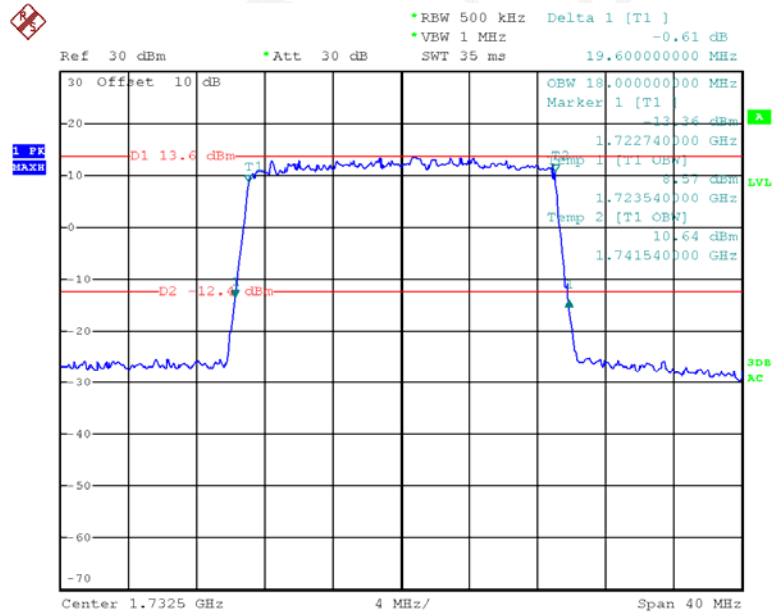
Date: 14.JUN.2016 22:20:32

16QAM_15 MHz



Date: 14.JUN.2016 22:23:56

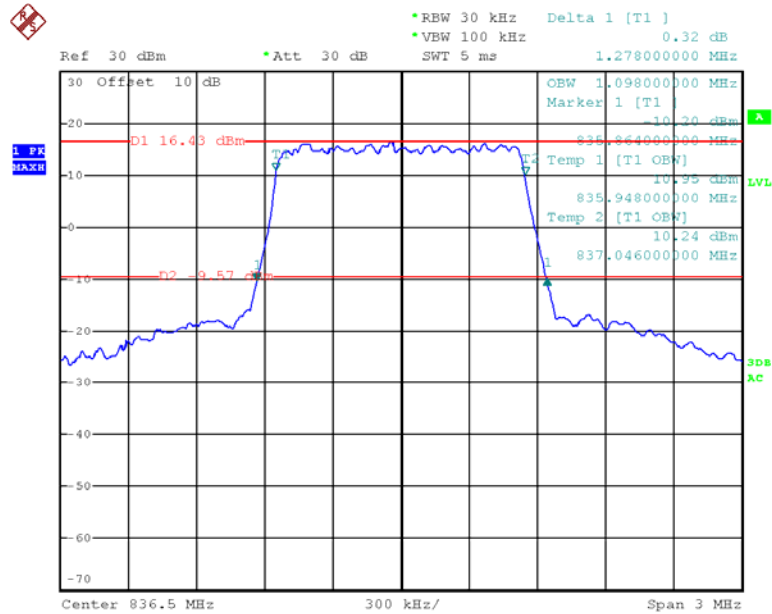
16QAM_20 MHz



Date: 14.JUN.2016 22:25:07

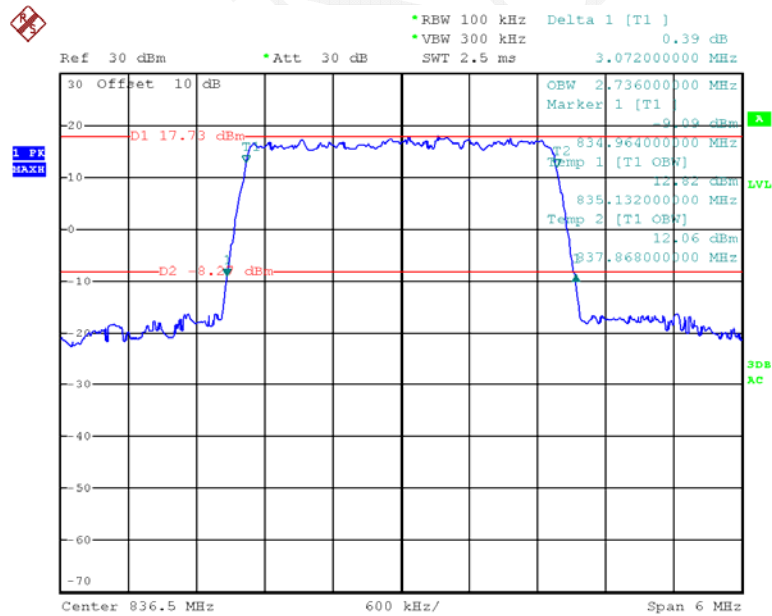
LTE Band V

QPSK_1.4 MHz



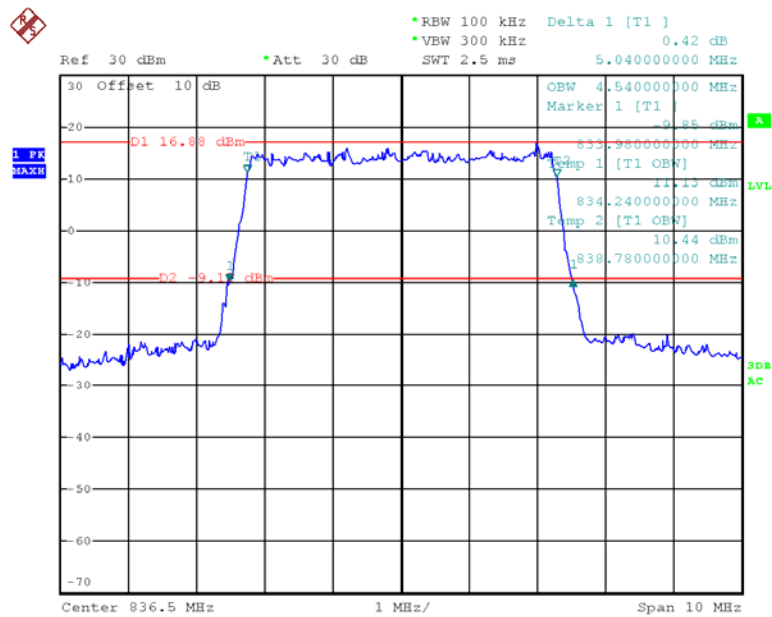
Date: 14.JUN.2016 00:02:39

QPSK_3 MHz



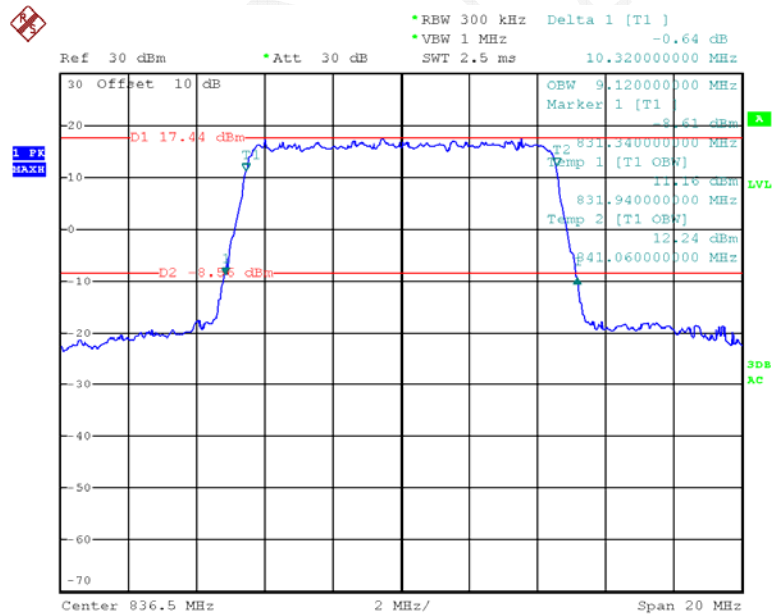
Date: 14.JUN.2016 00:04:30

QPSK_5 MHz



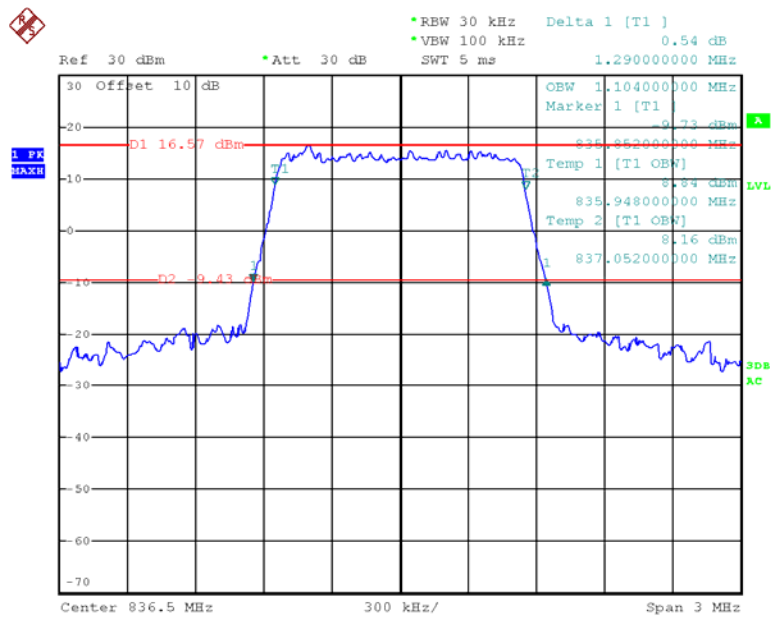
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QPSK_10 MHz



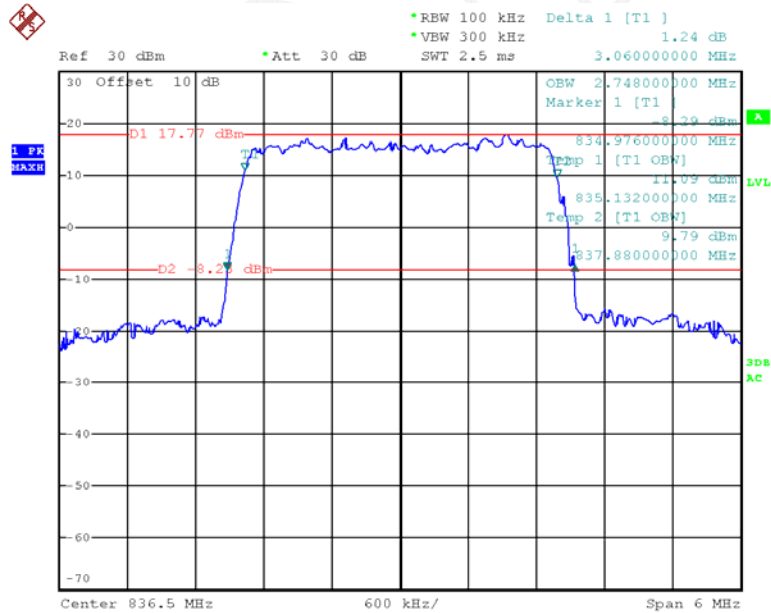
Date: 14.JUN.2016 00:07:19

16QAM_1.4 MHz



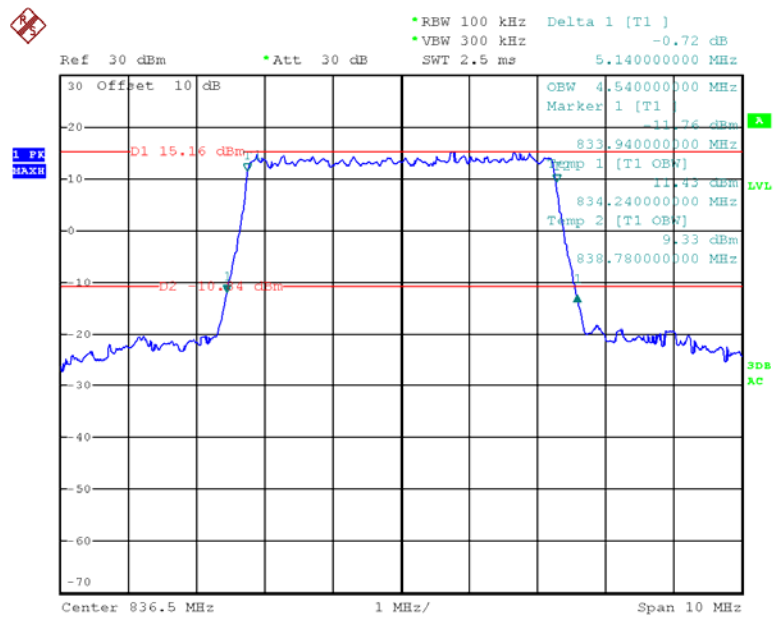
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16QAM_3 MHz



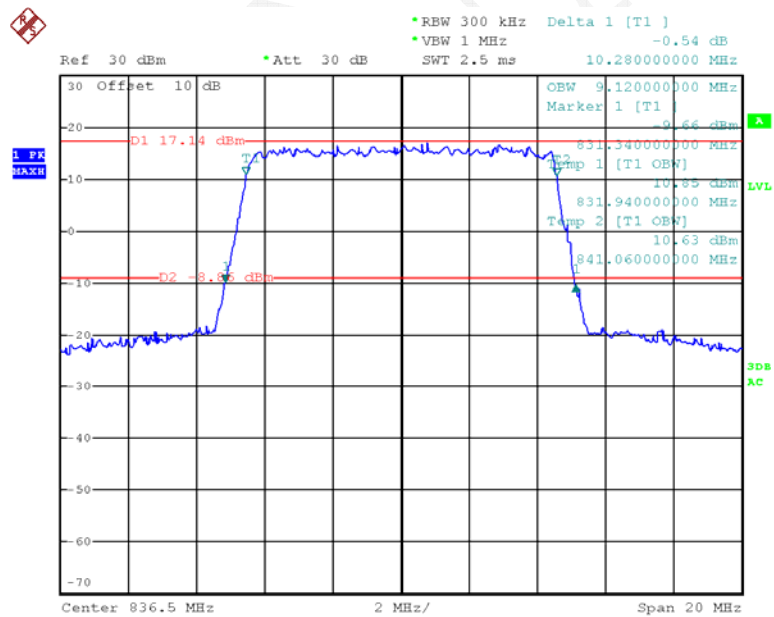
Date: 14.JUN.2016 00:03:36

16QAM_5 MHz



Date: 14.JUN.2016 00:05:49

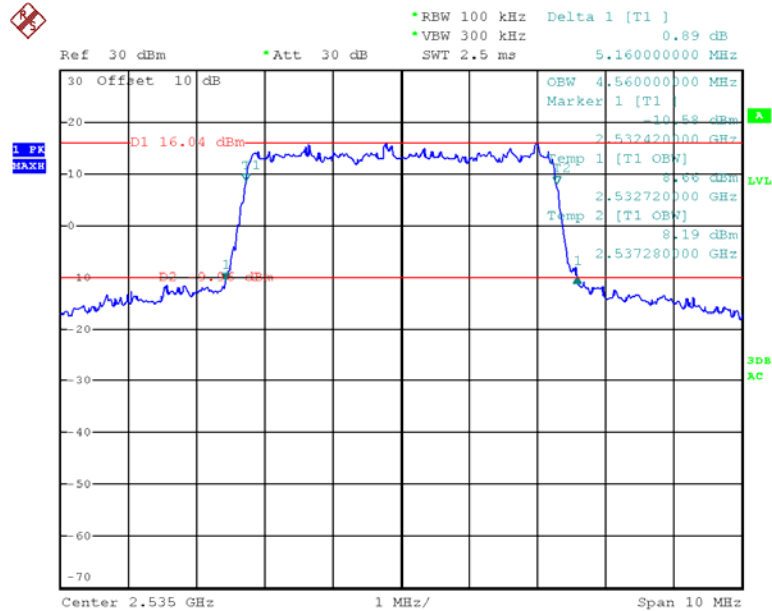
16QAM_10 MHz



Date: 14.JUN.2016 00:07:53

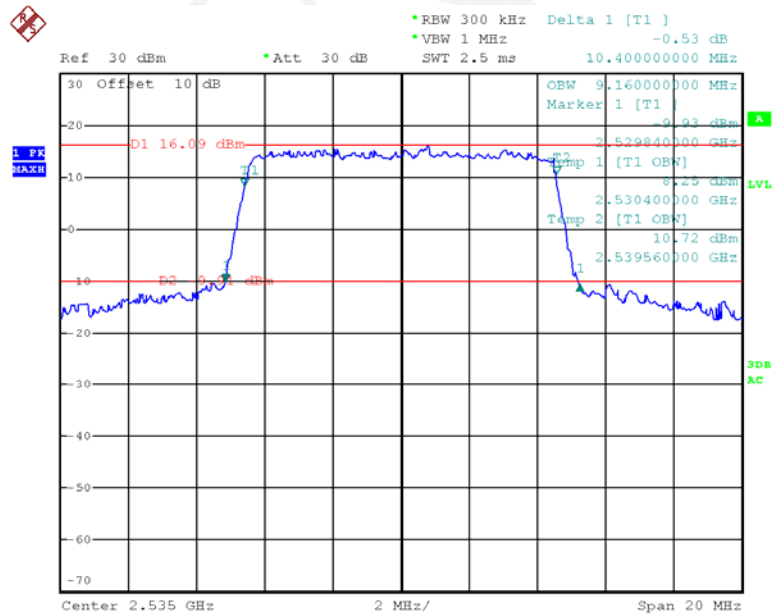
LTE Band VII

QPSK_5 MHz



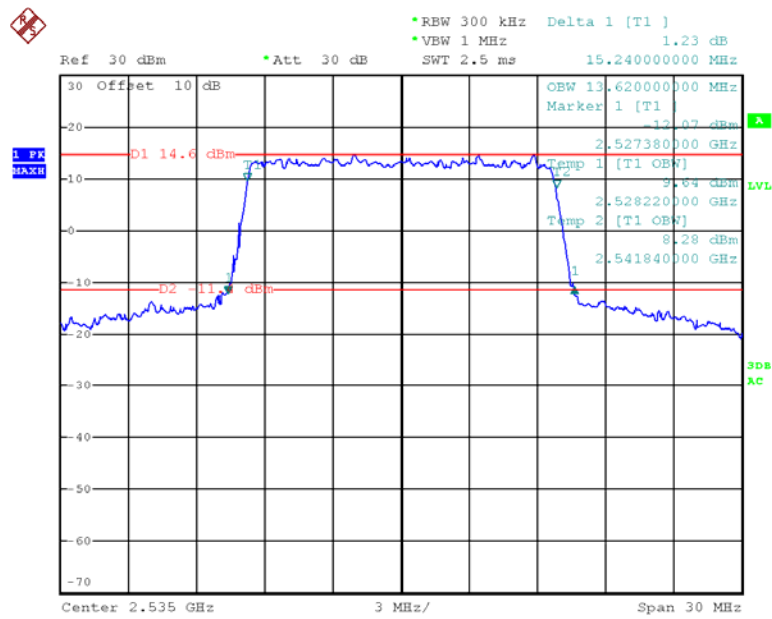
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QPSK_10 MHz



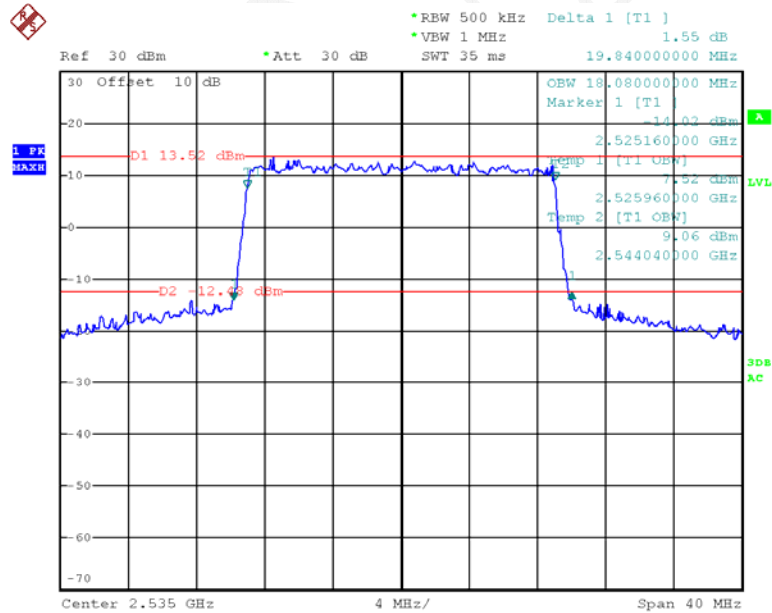
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QPSK_15 MHz

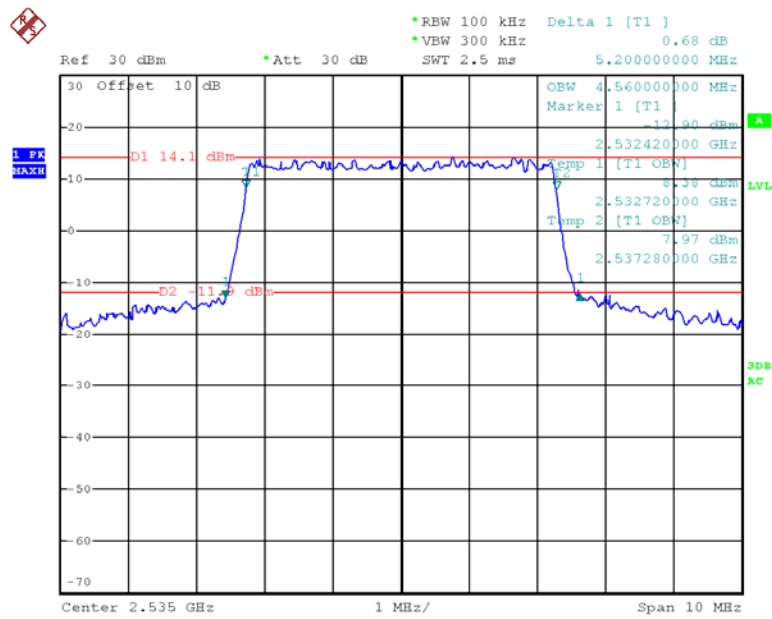


Date: 14.JUN.2016 00:15:38

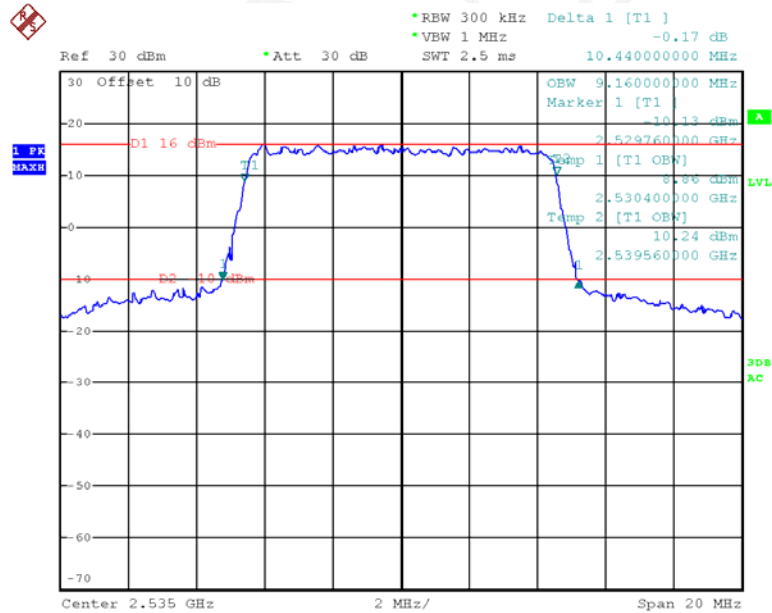
QPSK_20 MHz



Date: 14.JUN.2016 00:18:21

16QAM_5 MHz

Date: 14.JUN.2016 00:12:32

16QAM_10 MHz

Date: 14.JUN.2016 00:14:30