

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

For

Posh Mobile Limited

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Hong Kong

FCC ID: 2ABN6L700

Report Type: Original Report	Product Type: Equal 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: *L700A (FCC ID: 2ABN6L700)* (the "EUT") in this report was a *Equal Pro LTE*, which was measured approximately: 19.21 cm (L) x 10.15 cm (W) x 0.85 cm (H), rated input voltage: DC3.8V rechargeable Li-ion battery or DC5.0V charging from adapter.

Adapter information:

Model: A31-501000

Input: AC100-240V, 50/60 Hz 0.2A

Output: DC 5.0V, 1A

Note: The series product, model L700A and L700 are electrically identical, the difference between them was explained in the attached declaration letter, we selected L700A for fully testing.

All measurement and test data in this report was gathered from production sample serial number: 160304003 (Assigned by BACL, Dongguan). The EUT was received on 2016-03-04.

Objective

This report is prepared on behalf of *Posh Mobile Limited* in accordance with: Part 2-Subpart J, Part 22-Subpart H, and Part 24-Subpart E, Part 27 of the Federal Communication Commissions 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: 2ABN6L700

FCC Part 15C DSS submissions with FCC ID: 2ABN6L700

FCC Part 15C DTS submissions with FCC ID: 2ABN6L700

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.

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.

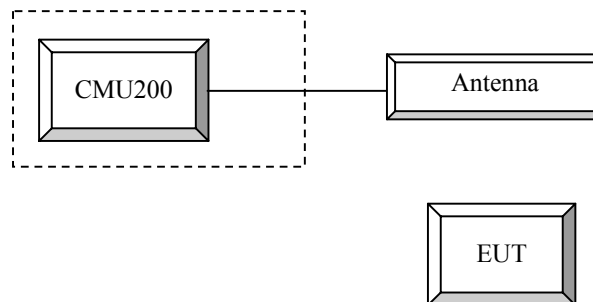
Equipment Modifications

No modification was made to the EUT.

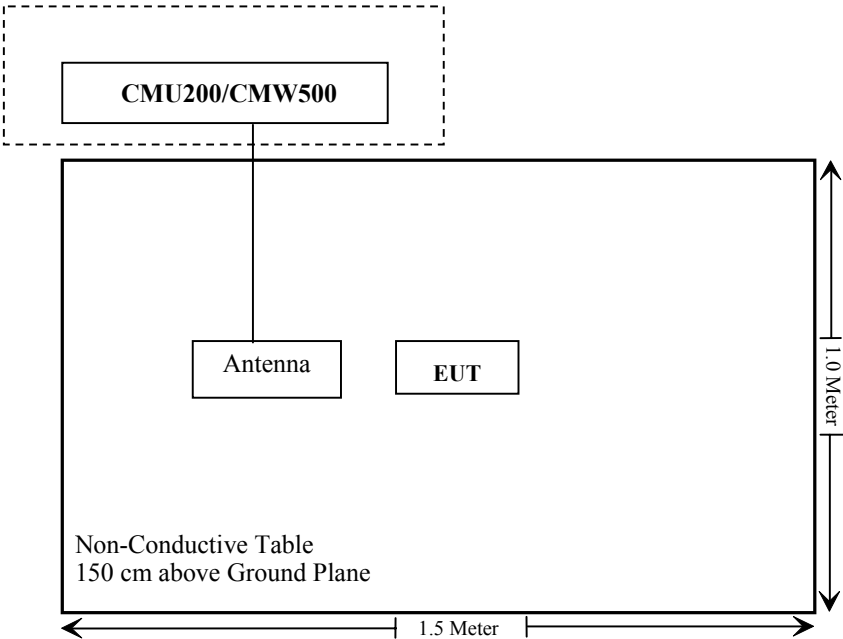
Support Equipment List and Details

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

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	Field Strength of Spurious Radiation	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

Compliance, please refer to the SAR report: RDG160304003-20.

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.

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 §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.

According to FCC §2.1046 and §27.50 (c), (10) Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP.

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 FCC §2.1046 and §27.50 (h), (2) Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

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 Signalling 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	9808-5557	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	2015-05-06	2016-05-06
N/A	Coaxial Cable	8m	N/A	2015-05-06	2016-05-06
N/A	Coaxial Cable	0.1m	N/A	2015-05-06	2016-05-06
E-Microwave	DC Blocking	EMDCB-00036	0E01201047	2015-05-06	2016-05-06
E-Microwave	Attenuator(10dB)	EMCA10-5RN	OE01203239	2015-05-08	2016-05-08
Pasternack	RF Coaxial Cable	RF-01	N/A	2015-05-06	2016-05-06
Pasternack	RF Coaxial Cable	RF-02	N/A	2015-05-06	2016-05-06
N/A	Two-way Splitter	ODP-1-6-2S	OE0120142	2015-05-06	2016-05-06

* **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:	25.1~27.4°C
Relative Humidity:	48~66%
ATM Pressure:	100.6~101.6kPa

The testing was performed by Dean Liu from 2016-03-09 to 2016-03-10.

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	33.10	32.99	32.61	31.81	31.41	27.08	26.17	24.18	23.14
	190	32.84	32.86	32.47	31.71	31.18	26.97	25.96	24.06	23.04
	251	32.79	32.76	32.41	31.50	31.00	26.88	25.84	23.96	22.91
PCS	512	29.62	29.56	29.17	28.04	27.38	25.74	24.96	23.02	21.79
	661	29.30	29.16	28.81	27.76	27.21	25.55	24.64	22.77	21.70
	810	29.17	29.05	28.97	28.00	27.50	25.30	24.37	22.48	21.47

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	1	22.55	2.76	22.69	2.68	22.21	3.04
HSDPA	1	21.34	2.63	21.13	2.56	21.09	3.01
	2	21.40	2.59	21.22	2.48	21.05	2.96
	3	21.28	2.56	21.28	2.52	21.07	2.99
	4	21.38	2.66	21.14	2.57	21.09	3.00
HSUPA	1	21.38	2.59	21.15	2.48	21.11	2.99
	2	21.30	2.56	21.22	2.53	21.16	2.99
	3	21.44	2.62	21.28	2.50	21.17	2.98
	4	21.47	2.62	21.27	2.52	21.05	3.02
	5	21.35	2.56	21.19	2.56	20.95	2.99
DC-HSDPA	1	21.42	2.64	21.28	2.53	20.98	2.98
	2	21.37	2.57	21.20	2.54	20.99	3.02
	3	21.46	2.65	21.31	2.54	20.95	3.00
	4	21.40	2.63	21.30	2.49	21.03	3.01
HSPA+	1	21.41	2.57	21.30	2.54	21.00	2.97

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	1	22.83	2.76	22.59	2.84	22.49	2.64
HSDPA	1	21.48	2.73	21.58	2.71	21.59	2.51
	2	21.55	2.70	21.63	2.86	21.64	2.62
	3	21.61	2.81	21.61	2.71	21.46	2.62
	4	21.53	2.73	21.57	2.72	21.64	2.67
HSUPA	1	21.89	2.78	21.55	2.78	21.52	2.63
	2	22.01	2.81	21.58	2.85	21.42	2.59
	3	21.97	2.78	21.50	2.85	21.44	2.65
	4	21.95	2.77	21.62	2.70	21.50	2.54
	5	21.84	2.84	21.56	2.70	21.62	2.62
DC-HSDPA	1	21.86	2.75	21.45	2.85	21.74	2.59
	2	21.86	2.85	21.59	2.70	21.67	2.52
	3	21.83	2.85	21.47	2.86	21.71	2.52
	4	21.99	2.68	21.44	2.80	21.66	2.55
HSPA+	1	21.91	2.86	21.45	2.74	21.55	2.59

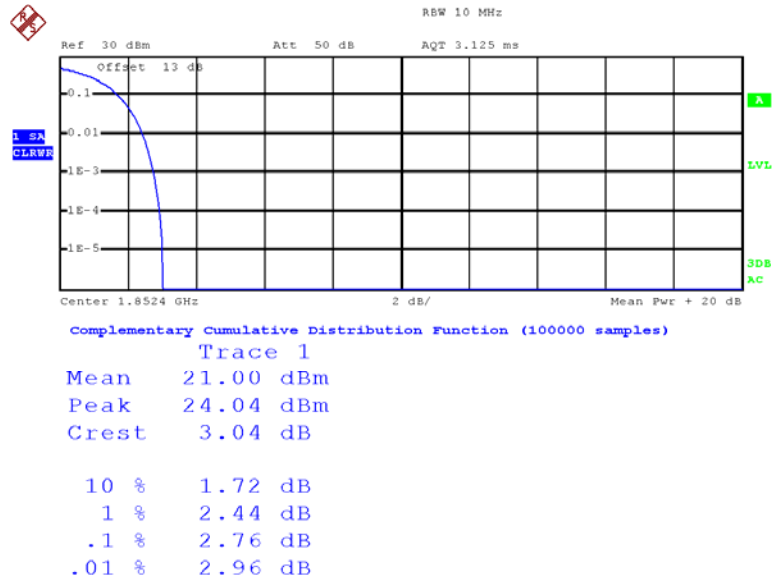
WCDMA Band V (PART 22H)

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	1	22.59	2.72	22.48	2.40	22.58	3.04
HSDPA	1	21.53	2.68	21.42	2.39	21.54	2.99
	2	21.49	2.70	21.50	2.30	21.68	3.00
	3	21.53	2.67	21.35	2.37	21.64	2.99
	4	21.52	2.67	21.26	2.34	21.58	2.94
HSUPA	1	21.59	2.64	21.4	2.38	21.55	2.96
	2	21.61	2.71	21.41	2.35	21.41	3.04
	3	21.61	2.69	21.37	2.35	21.55	2.96
	4	21.51	2.72	21.46	2.31	21.58	3.00
	5	21.60	2.64	21.28	2.37	21.44	2.95
DC-HSDPA	1	21.68	2.70	21.43	2.39	21.36	2.95
	2	21.53	2.68	21.31	2.36	21.45	3.02
	3	21.49	2.70	21.23	2.39	21.46	2.97
	4	21.62	2.63	21.30	2.35	21.52	2.96
HSPA+	1	21.52	2.71	21.19	2.37	21.44	2.96

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

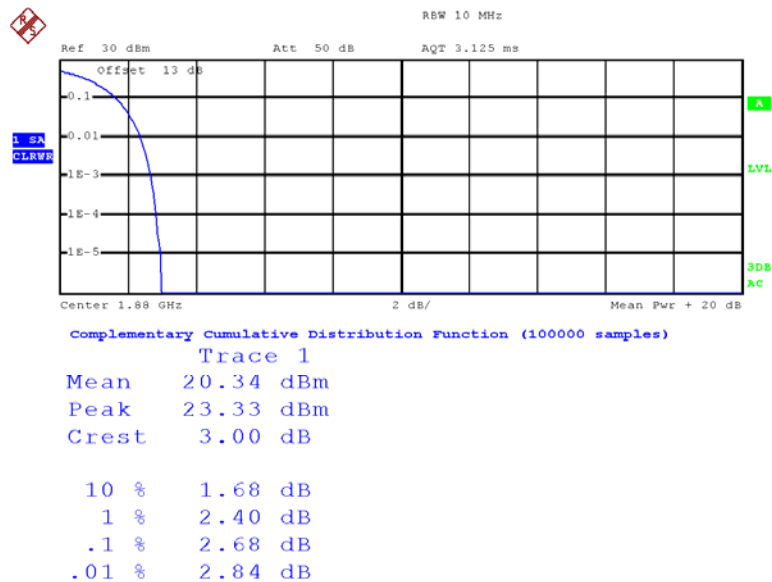
Peak-to-average ratio (PAR)
WCDMA Band II (PART 24E)

Low Channel



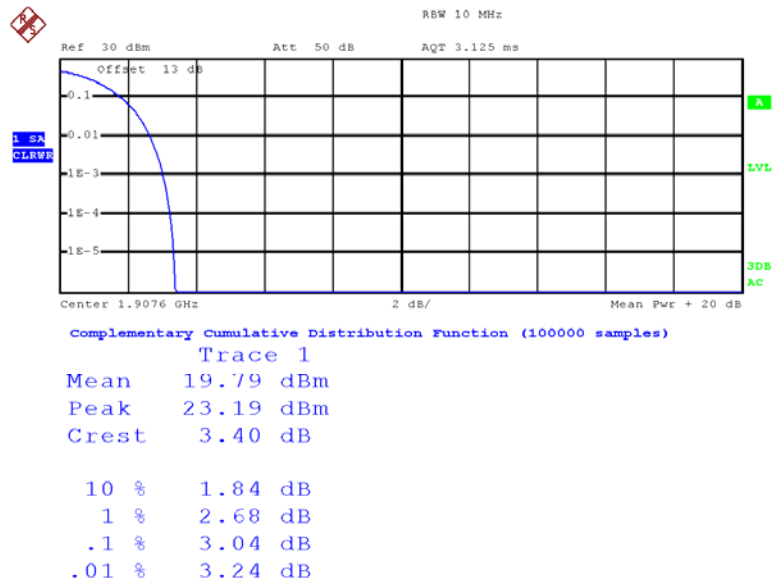
Date: 9.MAR.2016 00:13:13

Middle Channel

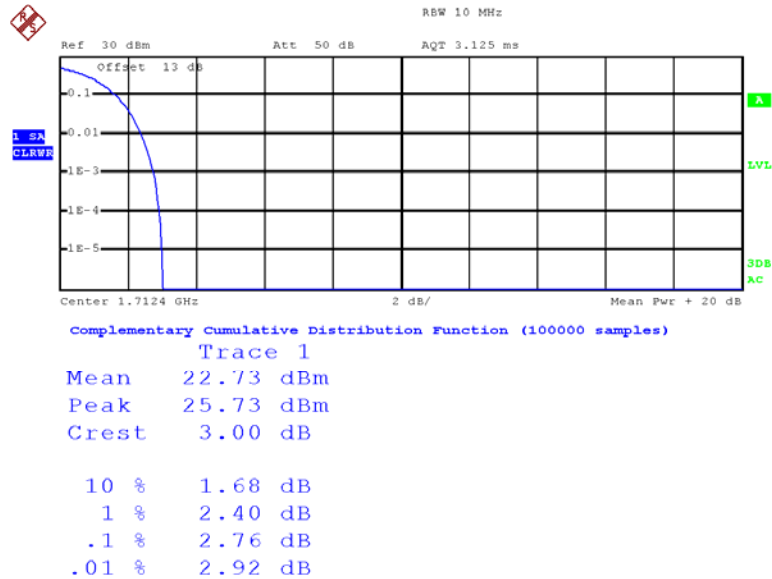


Date: 9.MAR.2016 00:12:50

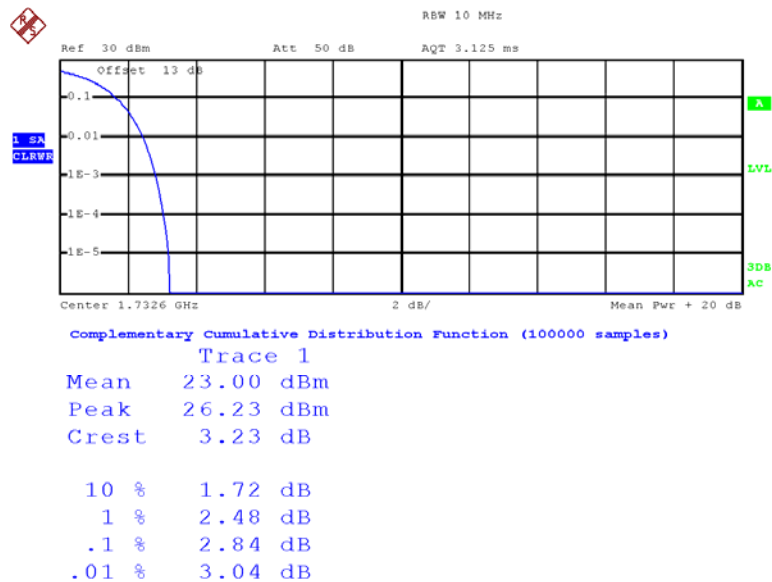
High Channel



Date: 9.MAR.2016 00:12:32

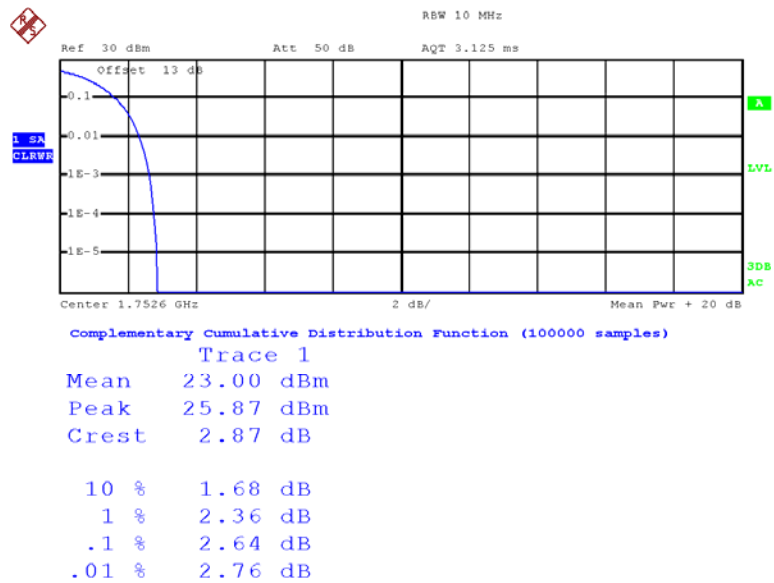
WCDMA Band IV (PART 27)**Low Channel**

Date: 9.MAR.2016 00:11:39

Middle Channel

Date: 9.MAR.2016 00:11:16

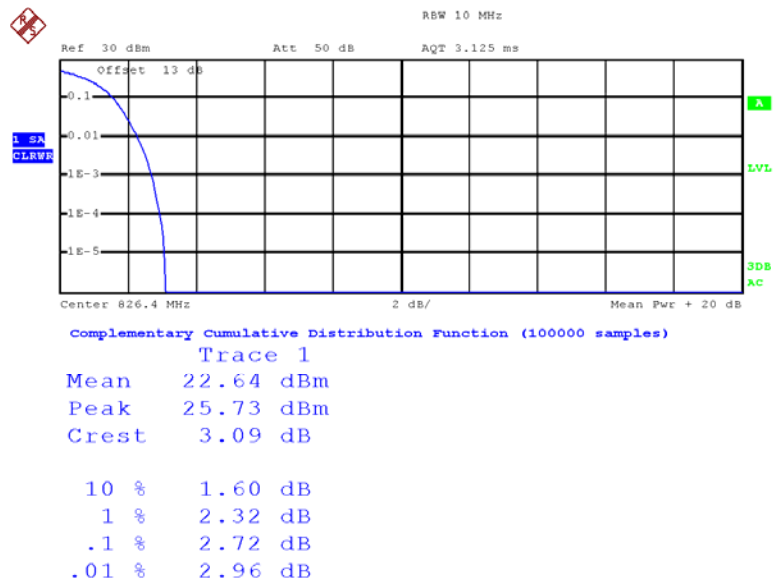
High Channel



Date: 9.MAR.2016 00:12:02

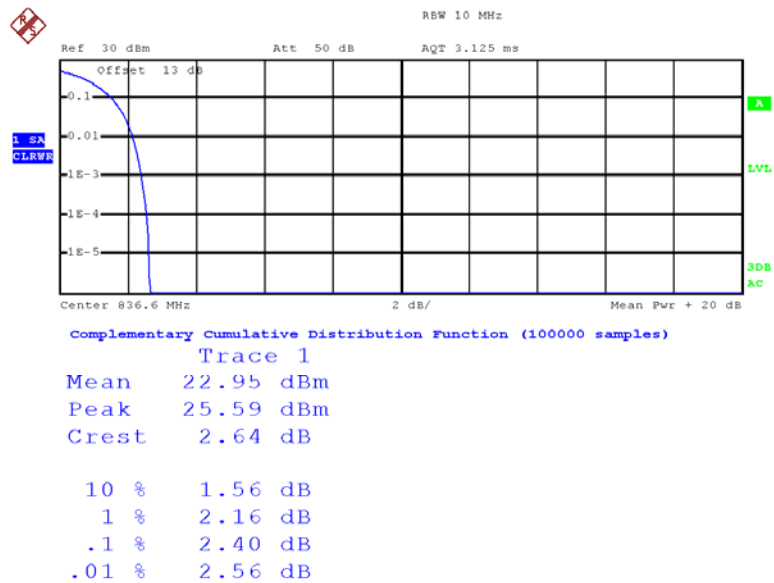
WCDMA Band V (PART 22H)

Low Channel



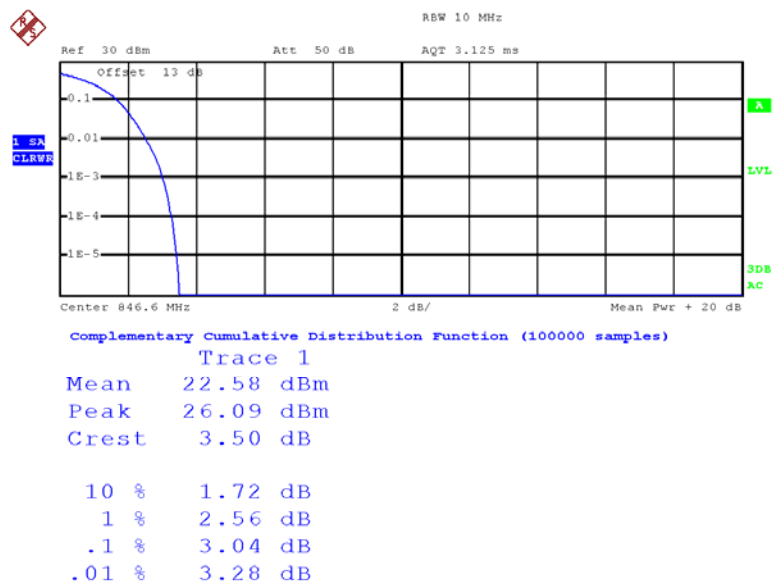
Date: 9.MAR.2016 00:14:47

Middle Channel



Date: 9.MAR.2016 00:14:29

High Channel



Date: 9.MAR.2016 00:14:07

LTE Band II

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	1#0	23.61	23.23	22.72
		1#3	23.51	23.12	22.72
		1#5	23.58	23.26	22.72
		3#0	23.68	23.23	22.60
		3#1	23.66	23.20	22.63
		3#3	23.61	23.16	22.68
		6#0	22.53	22.17	21.63
	16-QAM	1#0	22.61	22.18	21.62
		1#3	22.72	22.71	21.63
		1#5	22.74	22.72	21.63
		3#0	22.56	22.75	21.55
		3#1	22.67	22.59	21.60
		3#3	22.54	22.72	21.52
		6#0	21.50	21.17	20.66
3M	QPSK	1#0	23.53	23.17	22.76
		1#7	23.56	23.21	22.74
		1#14	23.50	23.07	22.80
		8#0	23.47	23.24	22.75
		8#4	23.56	23.29	22.74
		8#7	23.44	23.20	22.66
		15#0	22.54	22.13	21.77
	16-QAM	1#0	23.00	22.23	21.72
		1#7	22.99	22.20	21.65
		1#14	22.91	22.15	21.77
		8#0	23.00	22.31	21.70
		8#4	23.01	22.20	21.69
		8#7	22.97	22.15	21.83
		15#0	21.50	21.24	20.81
5M	QPSK	1#0	23.63	23.33	22.86
		1#12	23.71	23.18	22.92
		1#24	23.72	23.28	22.82
		12#0	23.68	23.39	22.83
		12#6	23.63	23.36	22.82
		12#11	23.68	23.38	22.91
		25#0	22.54	22.15	21.67
	16-QAM	1#0	23.01	22.41	22.42
		1#12	22.94	22.39	21.85
		1#24	23.08	22.46	21.74
		12#0	23.08	22.42	21.72
		12#6	23.00	22.45	21.81
		12#11	22.94	22.39	21.90
		25#0	21.46	21.22	20.85

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
10M	QPSK	1#0	23.63	23.47	22.68
		1#24	23.71	23.37	22.78
		1#49	23.59	23.52	22.67
		25#0	23.51	23.35	22.86
		25#12	23.54	23.41	22.70
		25#24	23.57	23.50	22.64
		50#0	22.54	22.18	21.77
	16-QAM	1#0	22.61	22.49	22.28
		1#24	22.53	22.50	22.19
		1#49	22.69	22.49	22.31
		25#0	22.68	22.47	22.39
		25#12	22.56	22.48	22.35
		25#24	22.60	22.50	22.23
		50#0	21.52	21.16	20.87
15M	QPSK	1#0	23.50	23.40	22.97
		1#37	23.39	23.47	22.95
		1#74	23.49	23.37	23.02
		36#0	23.57	23.47	23.01
		36#17	23.60	23.51	22.94
		36#35	23.51	23.36	22.94
		75#0	22.63	22.23	21.97
	16-QAM	1#0	22.91	22.56	22.45
		1#37	22.86	22.48	22.51
		1#74	22.95	22.41	22.61
		36#0	23.04	22.45	22.48
		36#17	22.94	22.49	22.55
		36#35	22.82	22.47	22.42
		75#0	21.82	21.25	21.17
20M	QPSK	1#0	23.67	23.37	23.06
		1#49	23.65	23.44	23.16
		1#99	23.83	23.40	23.03
		50#0	23.68	23.37	23.10
		50#24	23.62	23.26	23.17
		50#49	23.57	23.27	23.05
		100#0	22.39	22.33	21.92
	16-QAM	1#0	22.94	22.68	22.54
		1#49	22.84	22.62	22.61
		1#99	22.84	22.61	22.46
		50#0	22.86	22.58	22.61
		50#24	22.91	22.65	22.60
		50#49	22.94	22.58	22.47
		100#0	21.60	21.37	21.03

LTE Band IV

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	1#0	23.94	24.01	23.97
		1#3	23.97	23.96	23.88
		1#5	23.97	23.96	23.80
		3#0	23.97	23.99	23.93
		3#1	23.91	23.99	23.82
		3#3	23.90	24.05	23.83
		6#0	22.97	22.90	23.00
	16-QAM	1#0	23.00	23.04	22.82
		1#3	22.96	22.98	22.89
		1#5	23.08	23.09	22.84
		3#0	23.02	22.94	22.95
		3#1	22.98	23.13	22.78
		3#3	23.10	22.98	22.98
		6#0	21.97	21.93	21.95
3M	QPSK	1#0	23.83	23.86	23.95
		1#7	23.86	23.77	23.88
		1#14	23.89	24.00	23.98
		8#0	23.83	23.91	23.99
		8#4	23.76	23.94	23.82
		8#7	23.87	23.92	23.94
		15#0	22.82	22.98	22.91
	16-QAM	1#0	22.97	23.46	22.91
		1#7	22.93	23.40	22.81
		1#14	22.91	23.40	22.87
		8#0	22.98	23.52	22.94
		8#4	22.85	23.53	22.90
		8#7	23.08	23.43	22.92
		15#0	21.89	21.95	21.98
5M	QPSK	1#0	23.88	23.89	24.01
		1#12	23.84	24.00	24.09
		1#24	23.98	24.03	23.99
		12#0	24.03	23.89	24.07
		12#6	23.95	24.01	23.95
		12#11	24.01	23.99	24.13
		25#0	22.88	22.95	22.86
	16-QAM	1#0	23.03	22.93	23.35
		1#12	23.11	22.82	23.32
		1#24	23.03	22.77	23.35
		12#0	22.97	22.90	23.32
		12#6	22.94	22.80	23.42
		12#11	23.08	22.87	23.28
		25#0	21.87	22.07	21.88

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
10M	QPSK	1#0	23.95	23.91	23.83
		1#24	23.83	23.88	23.94
		1#49	23.90	23.94	23.80
		25#0	23.90	23.86	23.85
		25#12	23.89	23.93	23.90
		25#24	23.89	23.86	23.79
		50#0	22.97	22.98	22.78
	16-QAM	1#0	22.94	23.44	23.00
		1#24	22.91	23.45	22.89
		1#49	22.94	23.37	23.08
		25#0	22.93	23.42	23.02
		25#12	22.79	23.33	23.06
		25#24	22.98	23.50	23.08
		50#0	22.00	21.95	21.84
15M	QPSK	1#0	23.79	23.92	23.92
		1#37	23.70	24.01	23.83
		1#74	23.70	23.94	23.90
		36#0	23.78	23.87	23.95
		36#17	23.71	23.89	24.02
		36#35	23.71	24.07	23.99
		75#0	23.00	22.81	22.99
	16-QAM	1#0	23.02	23.56	23.32
		1#37	23.12	23.62	23.33
		1#74	23.13	23.54	23.23
		36#0	23.07	23.57	23.26
		36#17	23.03	23.60	23.27
		36#35	22.99	23.55	23.30
		75#0	22.11	21.95	22.01
20M	QPSK	1#0	23.82	23.92	23.99
		1#49	23.75	23.99	23.95
		1#99	23.81	23.98	23.92
		50#0	23.83	23.88	23.89
		50#24	23.90	23.85	23.98
		50#49	23.87	23.92	23.85
		100#0	22.88	22.74	22.86
	16-QAM	1#0	23.11	23.31	23.65
		1#49	23.10	23.18	23.54
		1#99	23.17	23.31	23.71
		50#0	23.14	23.39	23.63
		50#24	23.19	23.20	23.73
		50#49	23.11	23.33	23.66
		100#0	22.38	22.41	22.07

LTE Band VII

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5M	QPSK	1#0	23.28	23.15	23.58
		1#12	23.31	23.08	23.63
		1#24	23.19	23.07	23.57
		12#0	23.35	23.18	23.62
		12#6	23.36	23.24	23.63
		12#11	23.26	23.28	23.62
		25#0	22.11	22.08	22.51
	16-QAM	1#0	22.40	22.16	22.72
		1#12	22.31	22.05	22.71
		1#24	22.40	22.04	22.73
		12#0	22.33	22.13	22.61
		12#6	22.33	22.12	22.59
		12#11	22.28	22.06	22.57
		25#0	20.99	21.18	21.51
10M	QPSK	1#0	23.25	23.14	23.12
		1#24	23.28	23.00	22.99
		1#49	23.19	23.17	23.20
		25#0	23.24	23.20	23.17
		25#12	23.19	23.18	23.17
		25#24	23.20	23.21	23.08
		50#0	22.03	22.02	22.50
	16-QAM	1#0	22.23	22.66	22.27
		1#24	22.19	22.58	22.24
		1#49	22.22	22.60	22.35
		25#0	22.07	22.69	22.33
		25#12	22.32	22.52	22.24
		25#24	22.12	22.68	22.26
		50#0	21.10	21.15	21.60

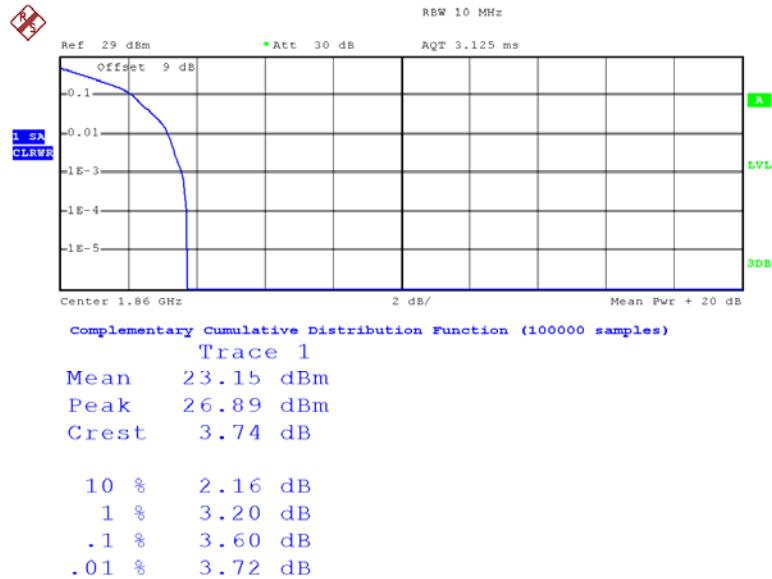
Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
15M	QPSK	1#0	23.26	22.97	23.48
		1#37	23.34	23.03	23.48
		1#74	23.33	23.04	23.55
		36#0	23.36	22.98	23.50
		36#17	23.39	23.04	23.43
		36#35	23.20	22.92	23.43
		75#0	21.88	22.22	22.66
	16-QAM	1#0	22.46	22.66	22.79
		1#37	22.42	22.69	22.68
		1#74	22.38	22.57	22.72
		36#0	22.48	22.63	22.75
		36#17	22.56	22.64	22.81
		36#35	22.39	22.54	22.73
		75#0	21.18	21.27	21.77
20M	QPSK	1#0	23.33	23.08	23.45
		1#49	23.36	23.09	23.47
		1#99	23.37	22.92	23.35
		50#0	23.43	23.11	23.37
		50#24	23.22	23.08	23.44
		50#49	23.36	22.97	23.42
		100#0	22.06	22.48	22.47
	16-QAM	1#0	22.38	22.48	22.82
		1#49	22.34	22.57	22.85
		1#99	22.30	22.43	22.81
		50#0	22.41	22.59	22.91
		50#24	22.38	22.49	22.73
		50#49	22.45	22.48	22.68
		100#0	21.03	21.37	21.73

LTE Band 17

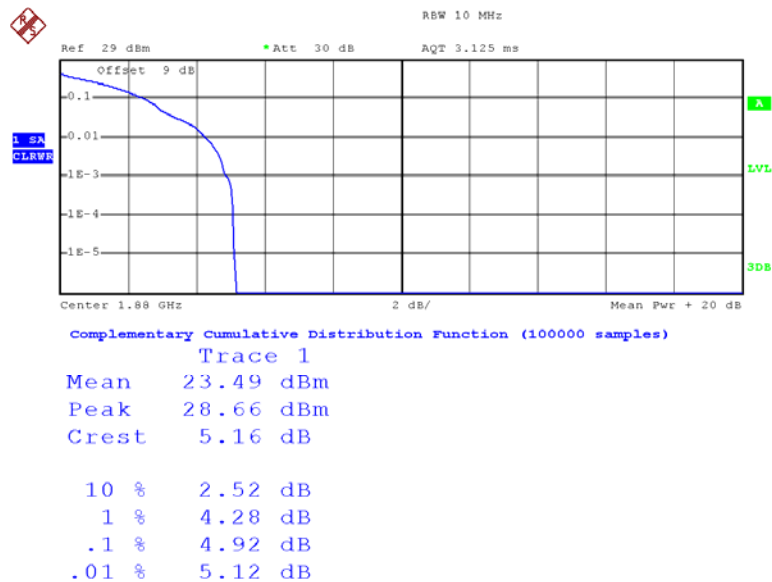
Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5M	QPSK	1#0	24.16	24.27	24.27
		1#12	24.08	24.15	24.21
		1#24	24.13	24.29	24.18
		12#0	24.18	24.22	24.18
		12#6	24.07	24.31	24.32
		12#11	24.05	24.21	24.14
		25#0	23.18	23.20	23.14
	16-QAM	1#0	23.34	23.46	23.21
		1#12	23.33	23.45	23.21
		1#24	23.42	23.36	23.29
		12#0	23.34	23.55	23.23
		12#6	23.34	23.45	23.19
		12#11	23.42	23.48	23.34
		25#0	22.14	22.15	22.29
10M	QPSK	1#0	24.11	24.19	24.24
		1#24	24.09	24.28	24.28
		1#49	24.06	24.28	24.16
		25#0	24.17	24.27	24.17
		25#12	24.18	24.14	24.18
		25#24	24.11	24.16	24.20
		50#0	23.18	23.13	23.11
	16-QAM	1#0	23.51	23.12	23.30
		1#24	23.53	23.15	23.26
		1#49	23.38	23.11	23.38
		25#0	23.47	23.08	23.33
		25#12	23.43	23.16	23.38
		25#24	23.57	23.31	23.41
		50#0	22.17	22.18	22.22

Peak-to-average ratio (PAR)

LTE Band	Test Modulation		Test Bandwidth	Low Channel (dB)	Middle Channel (dB)	High Channel (dB)	Limit (dB)
Band 2	QPSK	1 RB	20M	3.60	4.92	3.80	13
		Full RB		6.44	6.56	6.44	13
	16-QAM	1 RB		4.80	5.40	4.48	13
		Full RB		7.00	7.12	7.12	13
Band 4	QPSK	1 RB	20M	3.80	5.20	4.32	13
		Full RB		6.44	6.56	6.40	13
	16-QAM	1 RB		4.76	6.32	4.92	13
		Full RB		7.00	7.24	7.04	13
Band 7	QPSK	1 RB	20M	3.52	4.28	3.64	13
		Full RB		6.48	6.44	6.44	13
	16-QAM	1 RB		4.68	5.48	4.44	13
		Full RB		6.48	7.02	7.08	13
Band 17	QPSK	1 RB	10M	5.08	4.92	4.80	13
		Full RB		5.68	5.52	5.56	13
	16-QAM	1 RB		6.04	5.60	6.12	13
		Full RB		6.56	6.44	6.44	13

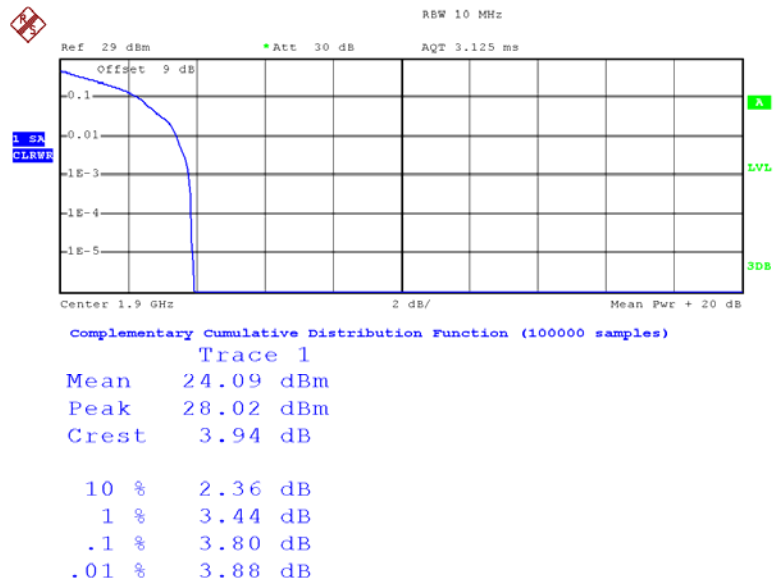
LTE Band 2**QPSK- RB#1 Low Channel**

Date: 10.MAR.2016 21:31:49

QPSK- RB#1 Middle Channel

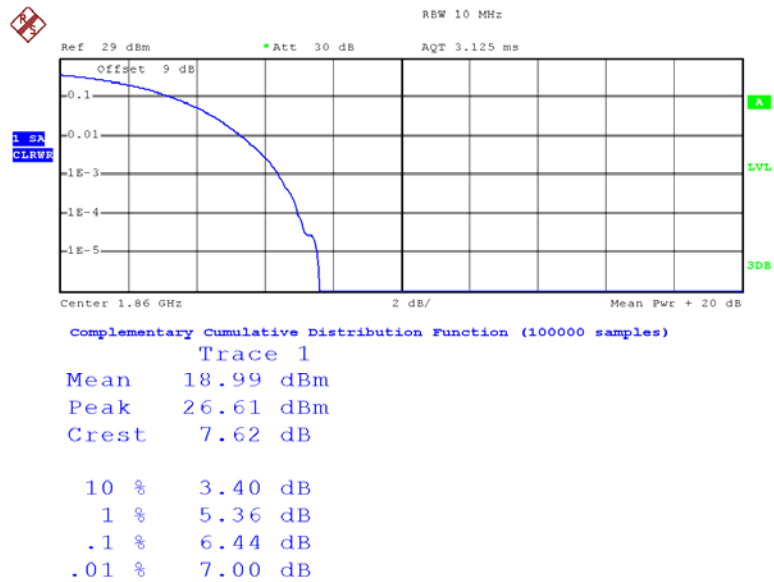
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QPSK- RB#1 High Channel



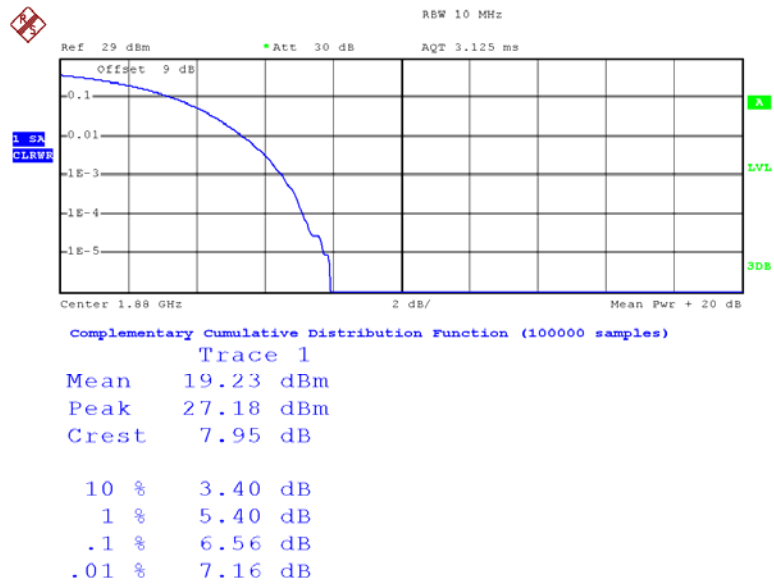
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QPSK- RB#100 Low Channel



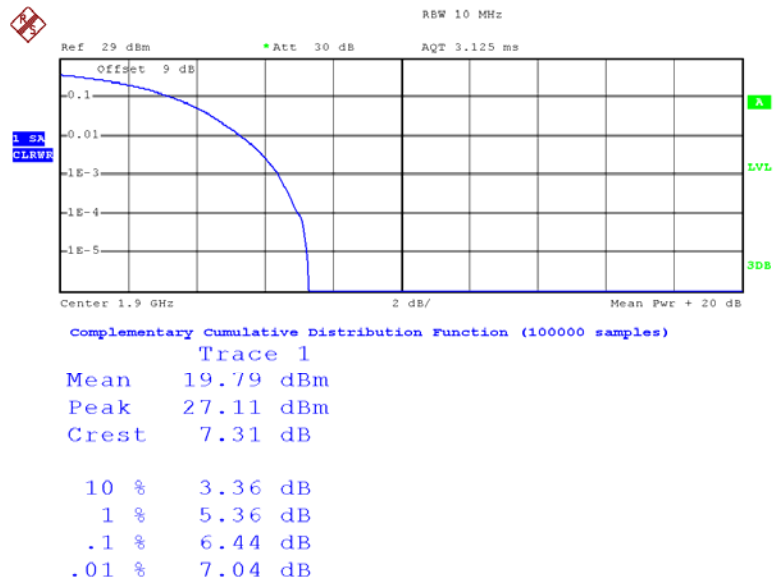
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QPSK- RB#100 Middle Channel



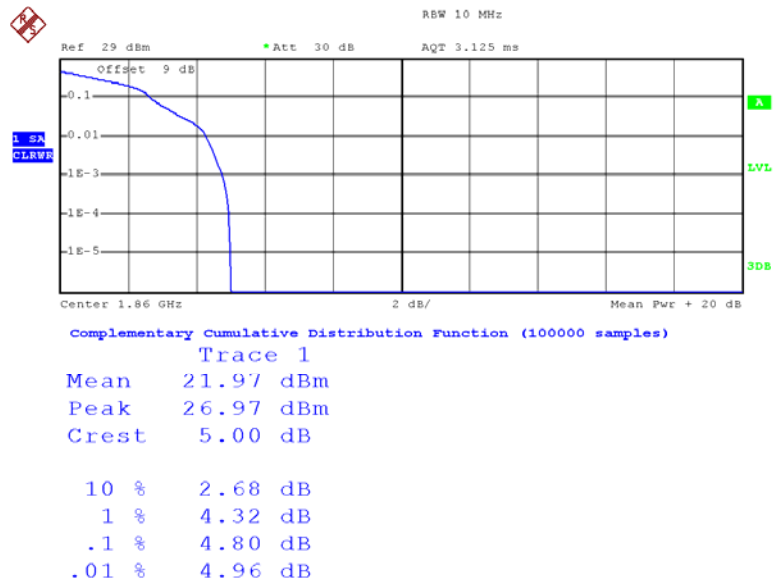
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QPSK- RB#100 High Channel



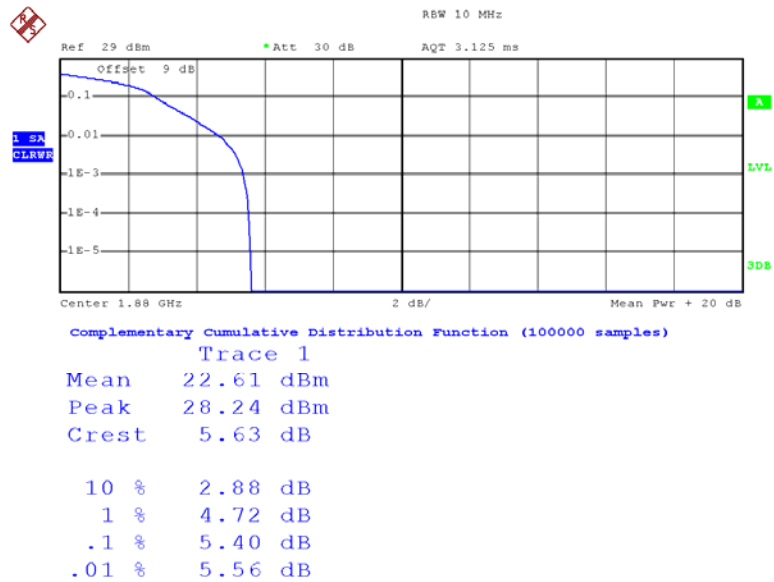
Date: 10.MAR.2016 21:33:26

16QAM- RB#1 Low Channel

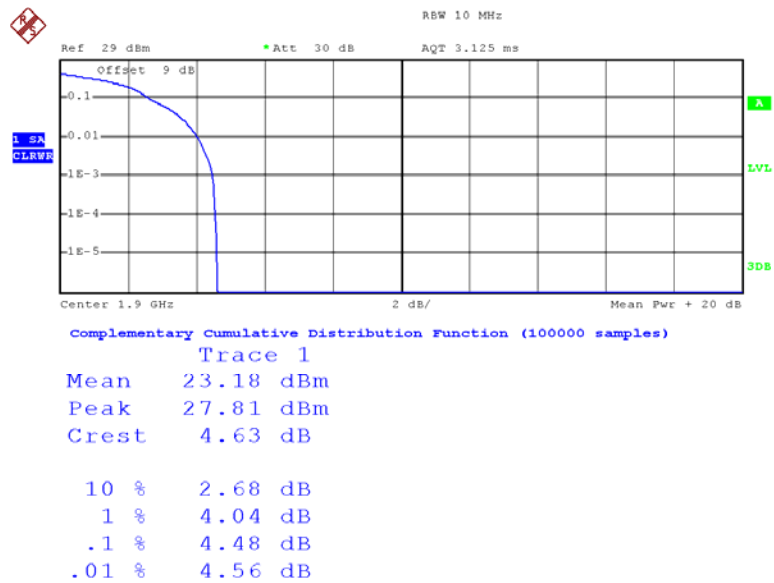


Date: 10.MAR.2016 21:31:44

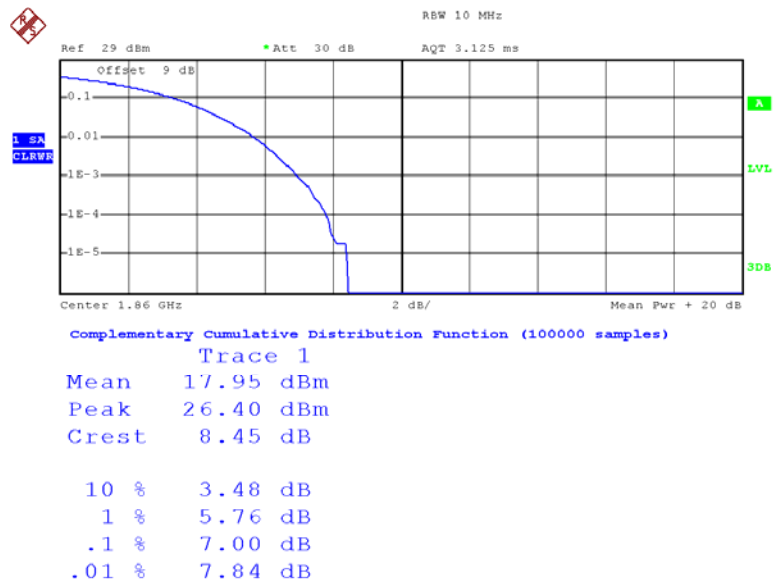
16QAM- RB#1 Middle Channel



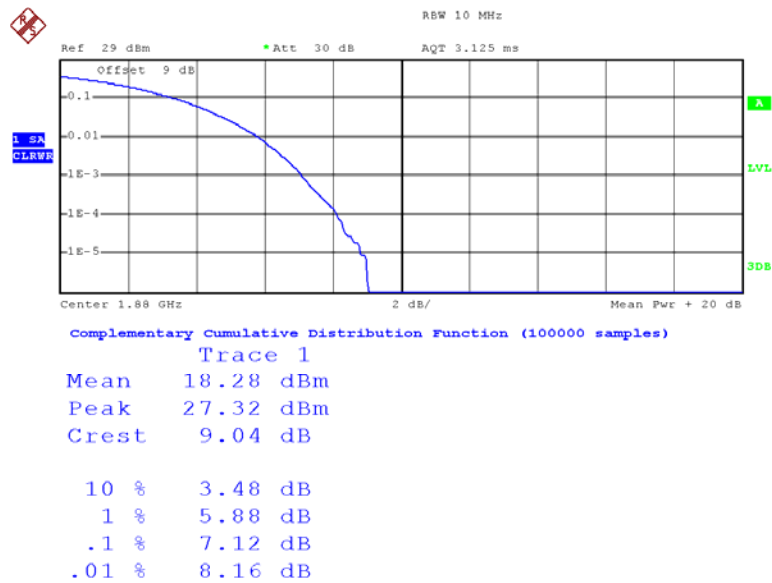
Date: 10.MAR.2016 21:30:13

16QAM- RB#1 High Channel

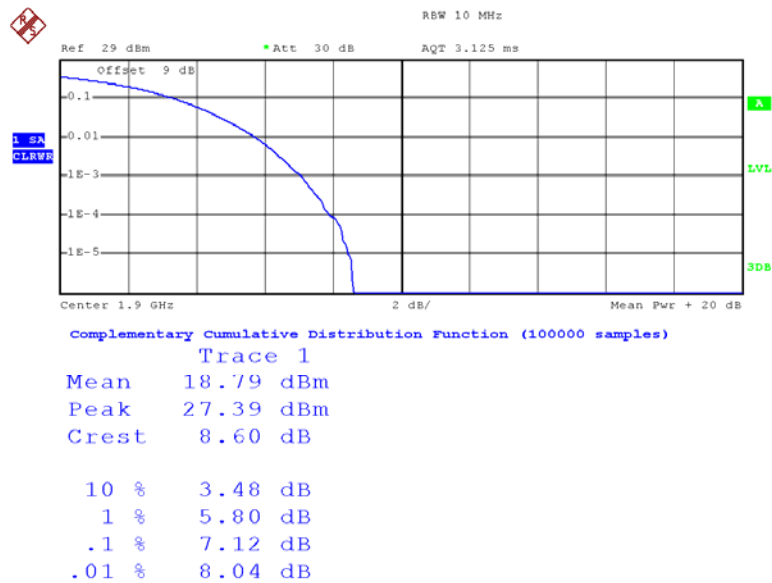
Date: 10.MAR.2016 21:33:40

16QAM- RB#100 Low Channel

Date: 10.MAR.2016 21:31:57

16QAM- RB#100 Middle Channel

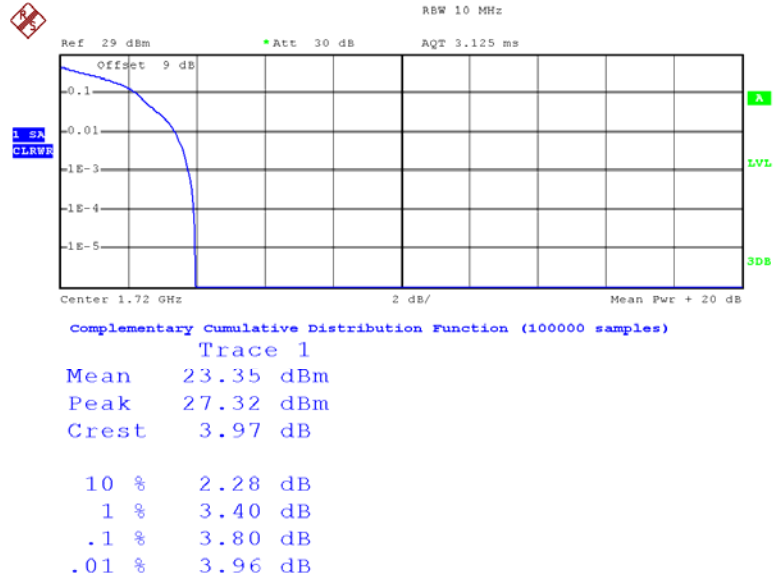
Date: 10.MAR.2016 21:30:46

16QAM- RB#100 High Channel

Date: 10.MAR.2016 21:33:21

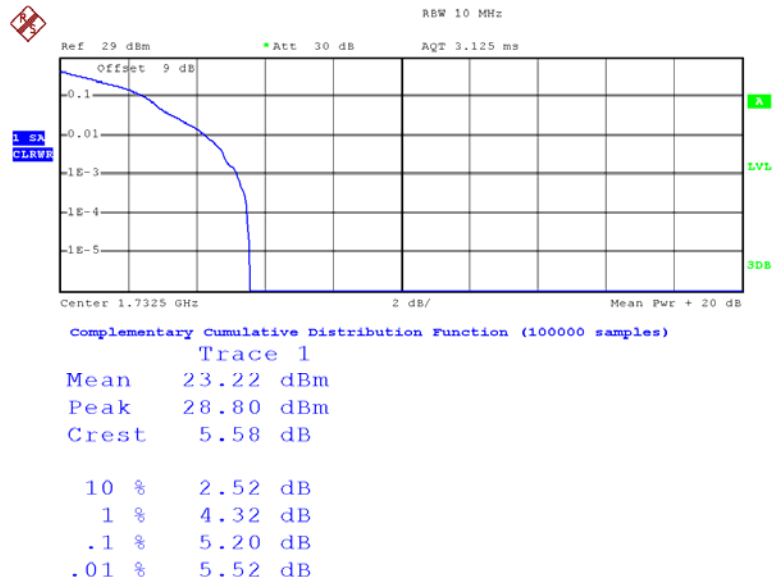
LTE Band 4

QPSK- RB#1 Low Channel



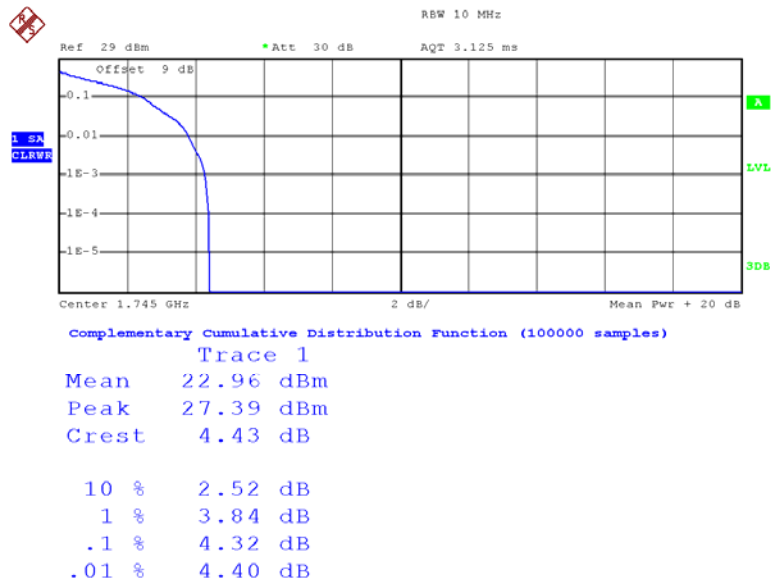
Date: 10.MAR.2016 21:35:22

QPSK- RB#1 Middle Channel



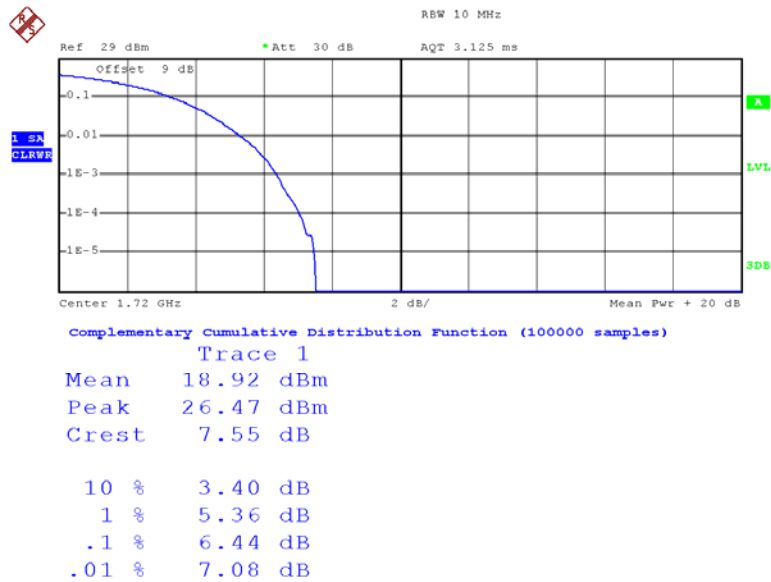
Date: 10.MAR.2016 21:36:11

QPSK- RB#1 High Channel



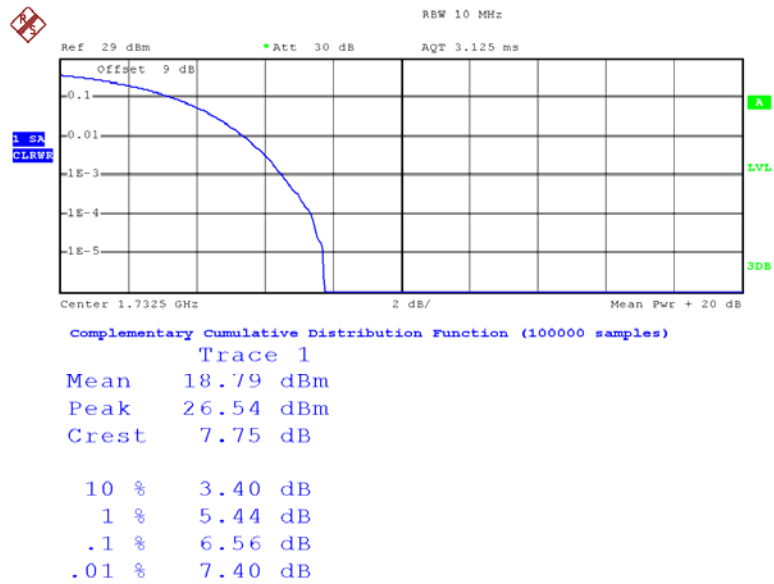
Date: 10.MAR.2016 21:38:36

QPSK- RB#100 Low Channel



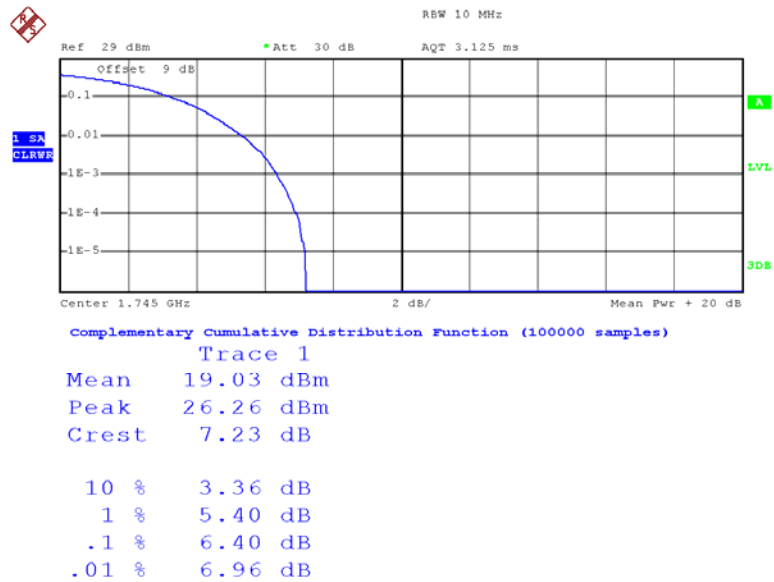
Date: 10.MAR.2016 21:35:29

QPSK- RB#100 Middle Channel



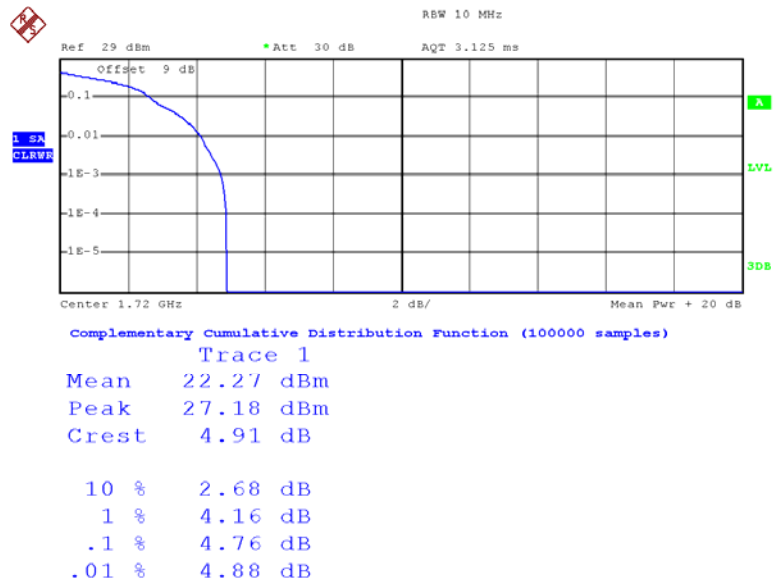
Date: 10.MAR.2016 21:36:04

QPSK- RB#100 High Channel



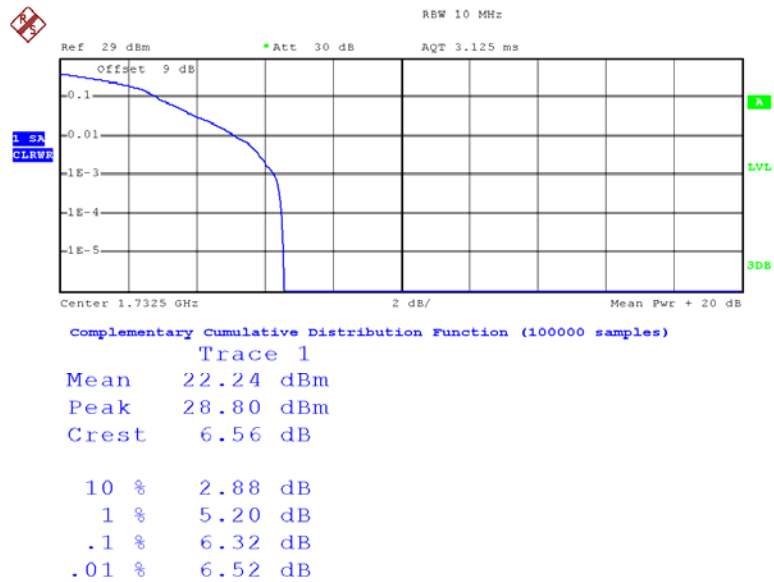
Date: 10.MAR.2016 21:38:50

16QAM- RB#1 Low Channel

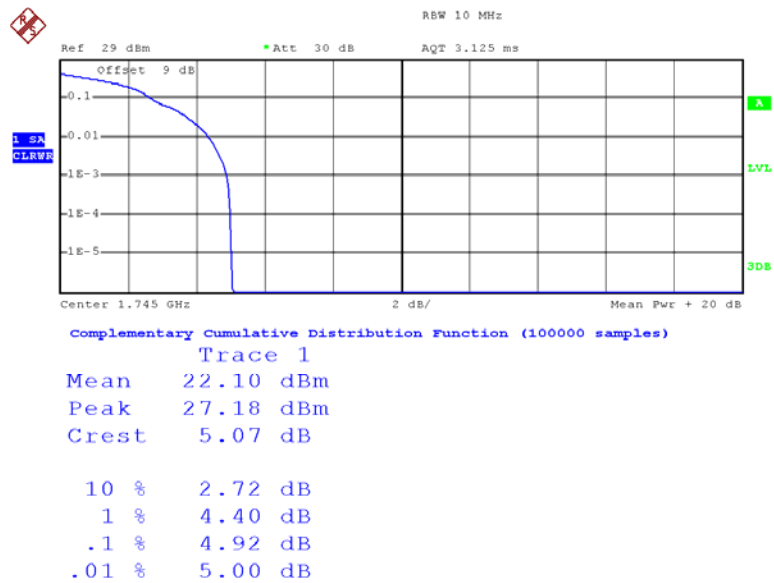


Date: 10.MAR.2016 21:35:16

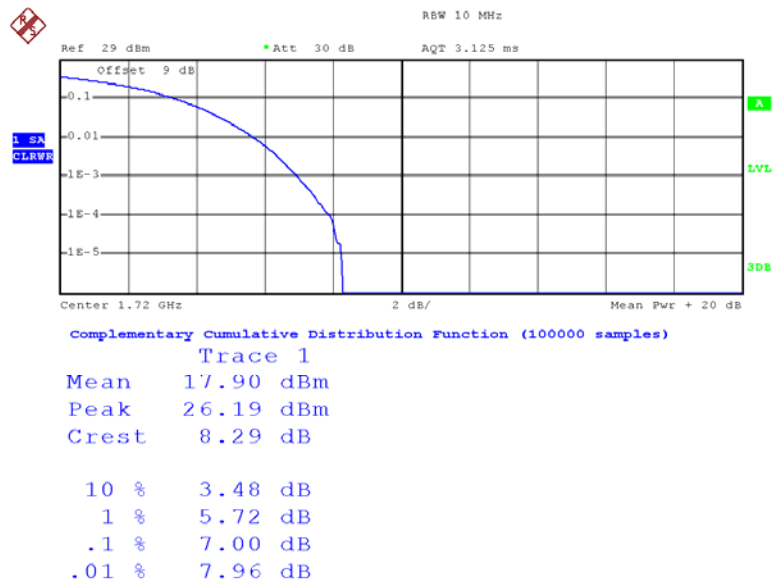
16QAM- RB#1 Middle Channel



Date: 10.MAR.2016 21:36:17

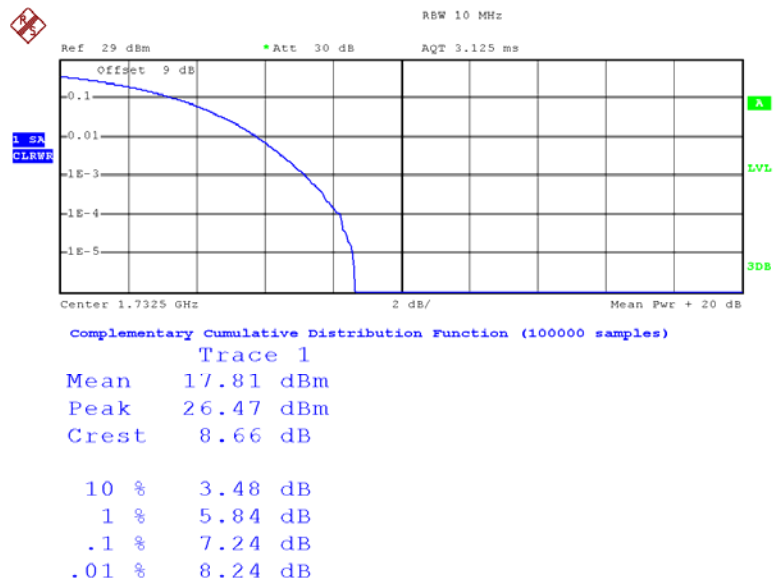
16QAM- RB#1 High Channel

Date: 10.MAR.2016 21:38:25

16QAM- RB#100 Low Channel

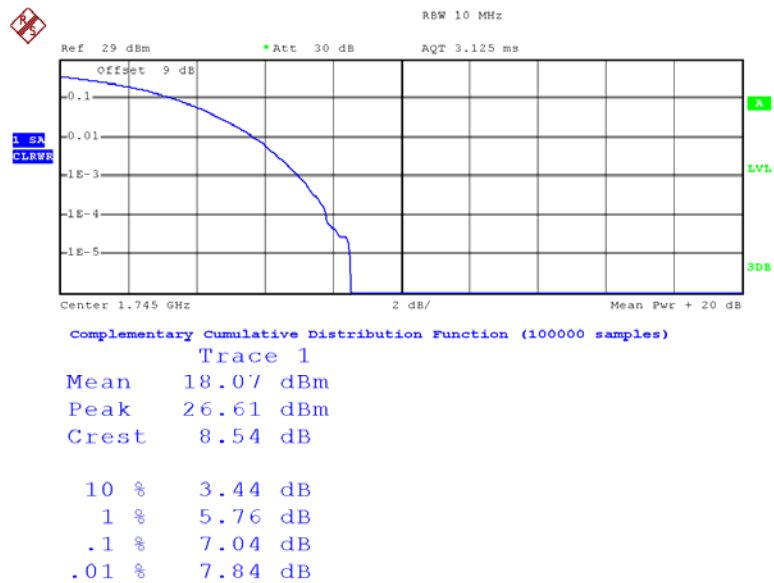
Date: 10.MAR.2016 21:35:34

16QAM- RB#100 Middle Channel

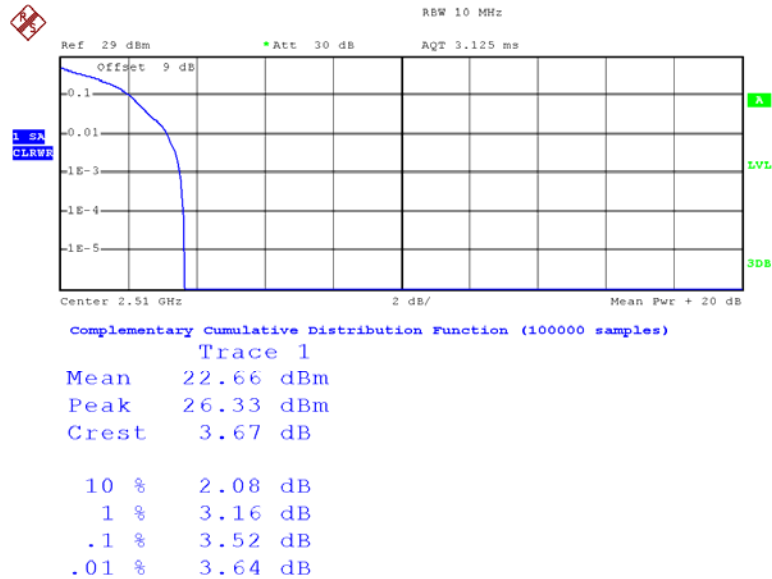


Date: 10.MAR.2016 21:35:59

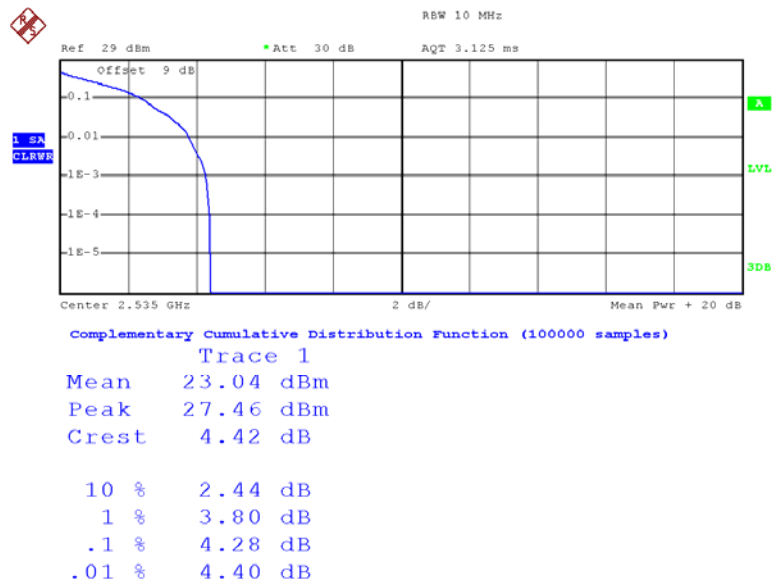
16QAM- RB#100 High Channel



Date: 10.MAR.2016 21:38:57

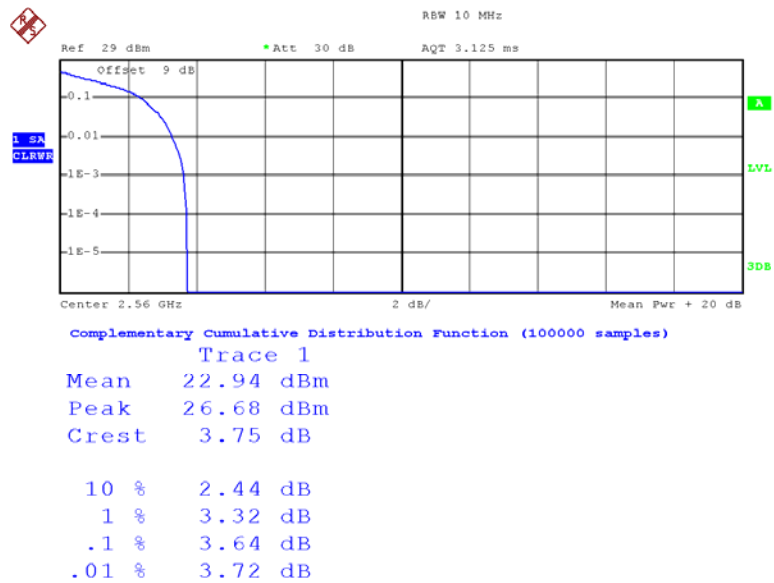
LTE Band 7**QPSK-1RB, Low Channel**

Date: 10.MAR.2016 21:39:50

QPSK-1RB, Middle Channel

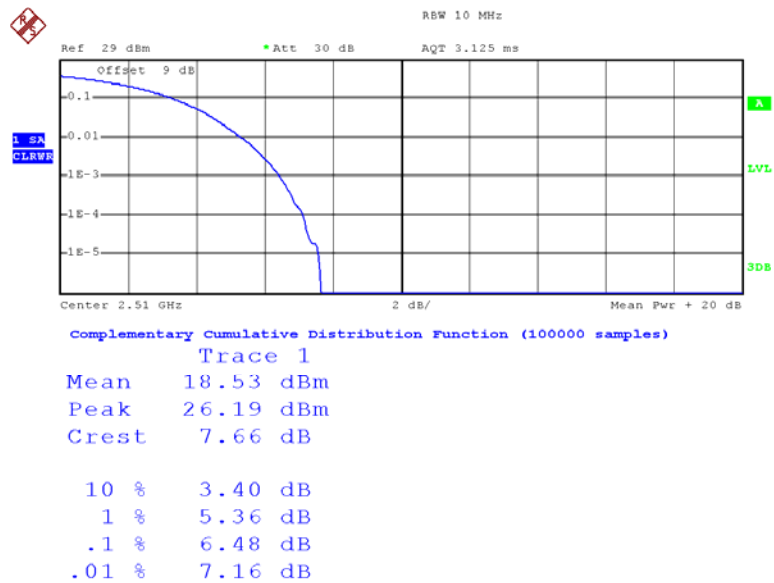
Date: 10.MAR.2016 21:41:22

QPSK-1RB, High Channel



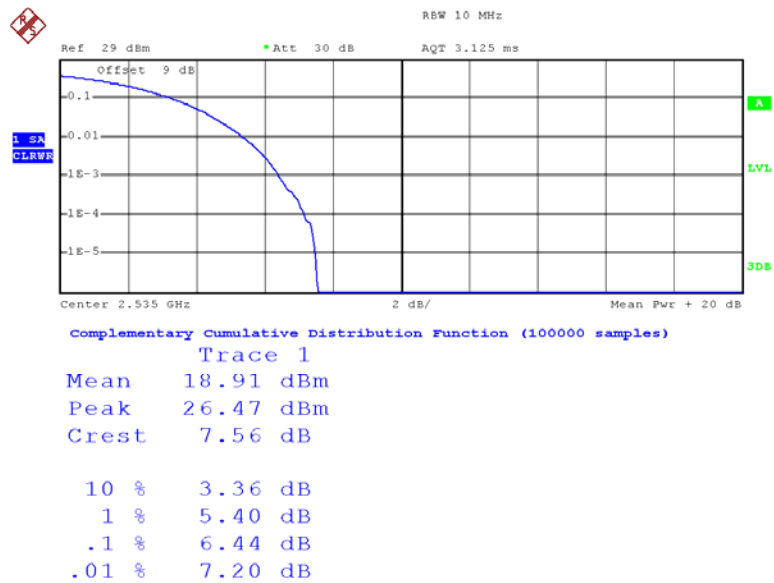
Date: 10.MAR.2016 21:42:48

QPSK- Full RB, Low Channel



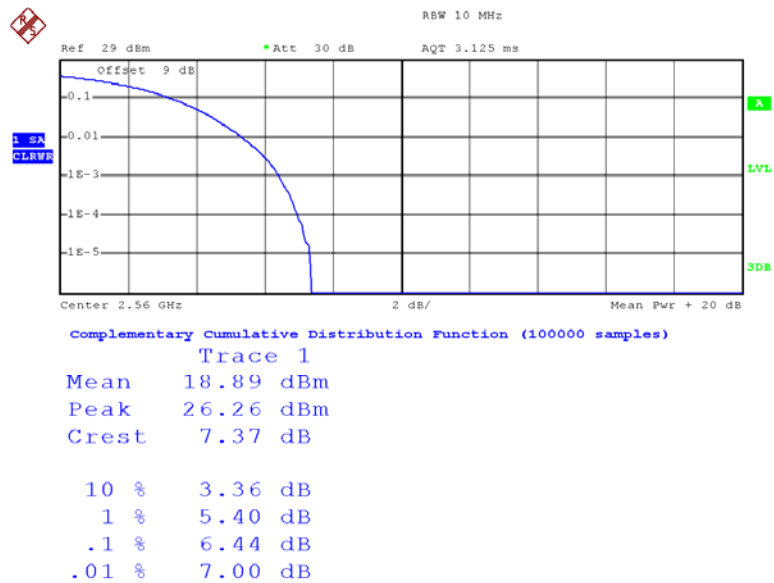
Date: 10.MAR.2016 21:39:40

QPSK- Full RB, Middle Channel

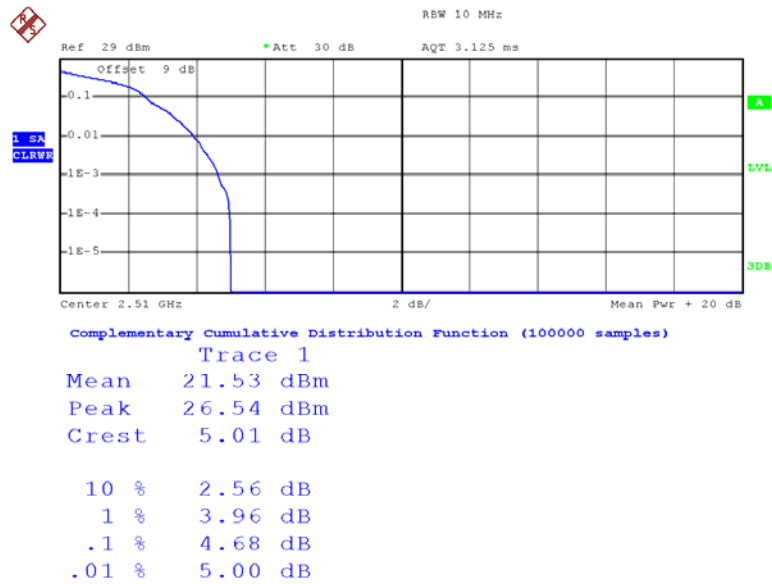


Date: 10.MAR.2016 21:41:27

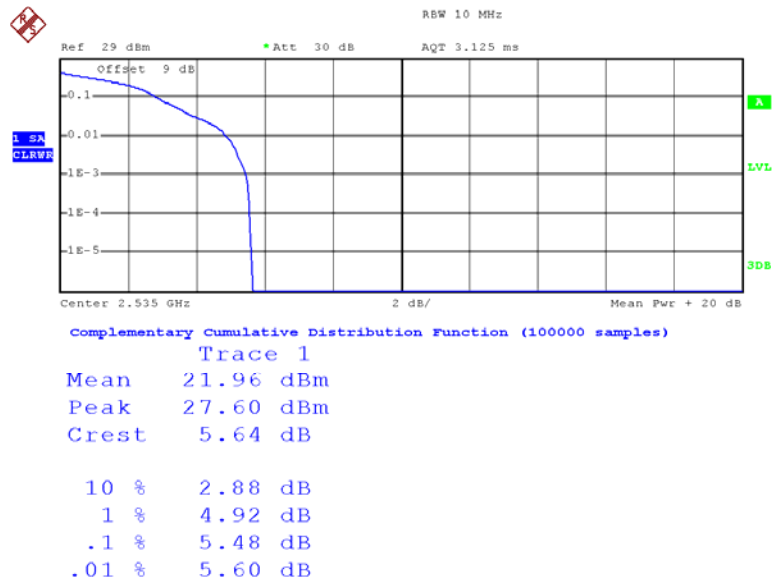
QPSK- Full RB, High Channel



Date: 10.MAR.2016 21:42:42

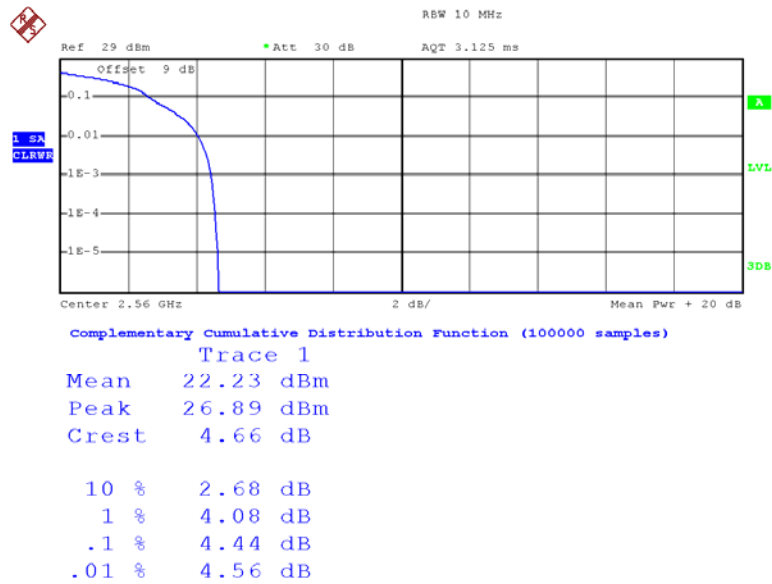
16QAM- 1RB, Low Channel

Date: 10.MAR.2016 21:39:54

16QAM- 1RB, Middle Channel

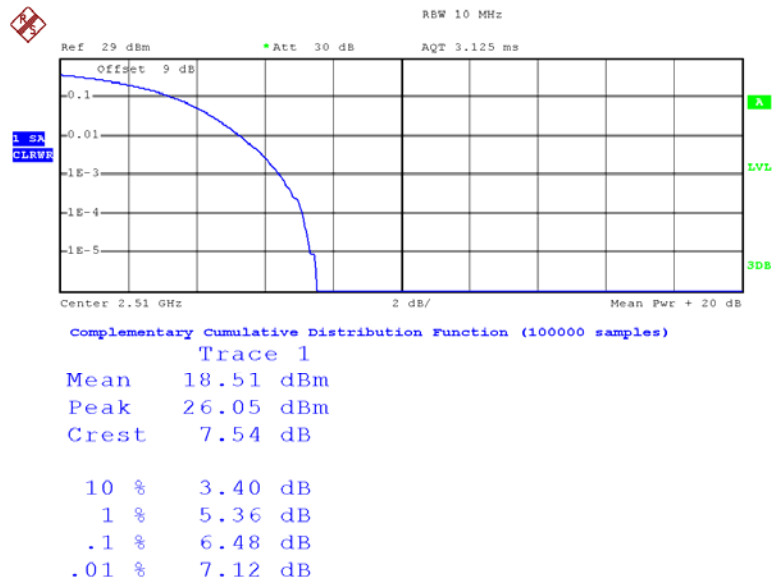
Date: 10.MAR.2016 21:41:18

16QAM- 1RB,High Channel



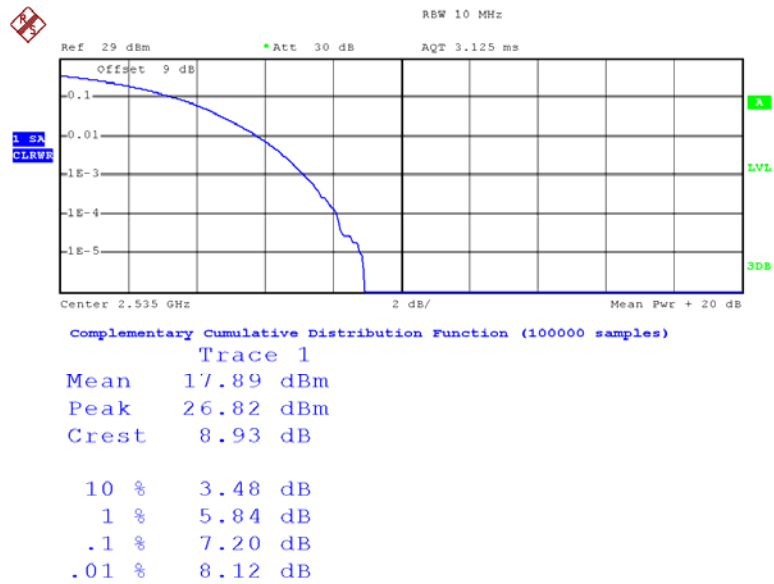
Date: 10.MAR.2016 21:42:53

16QAM- Full RB, Low Channel



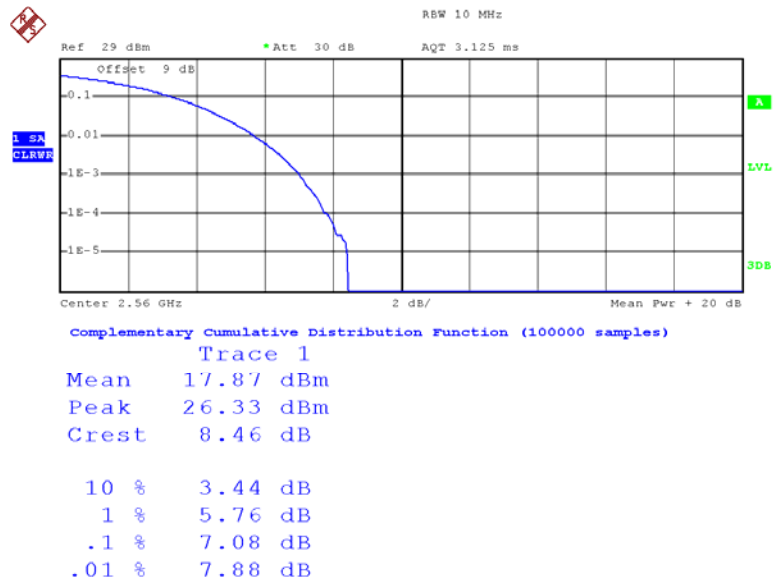
Date: 10.MAR.2016 21:39:34

16QAM- Full RB, Middle Channel



Date: 10.MAR.2016 21:41:31

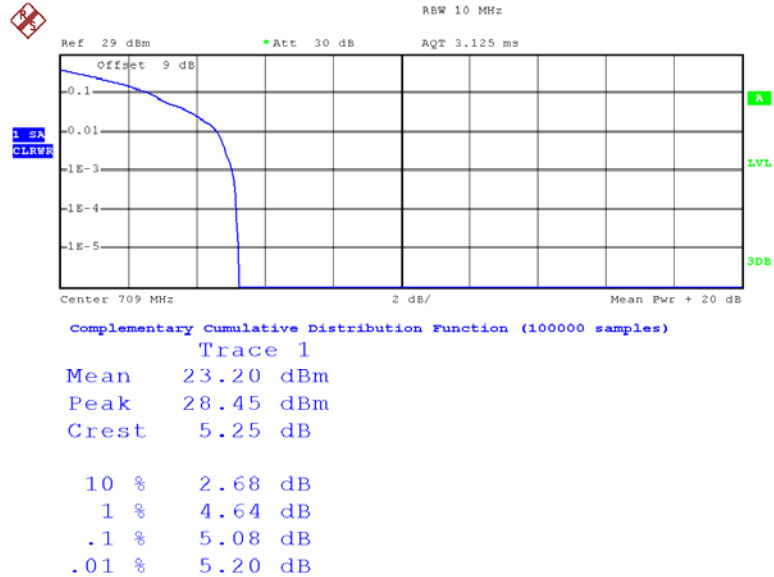
16QAM- Full RB, High Channel



Date: 10.MAR.2016 21:42:36

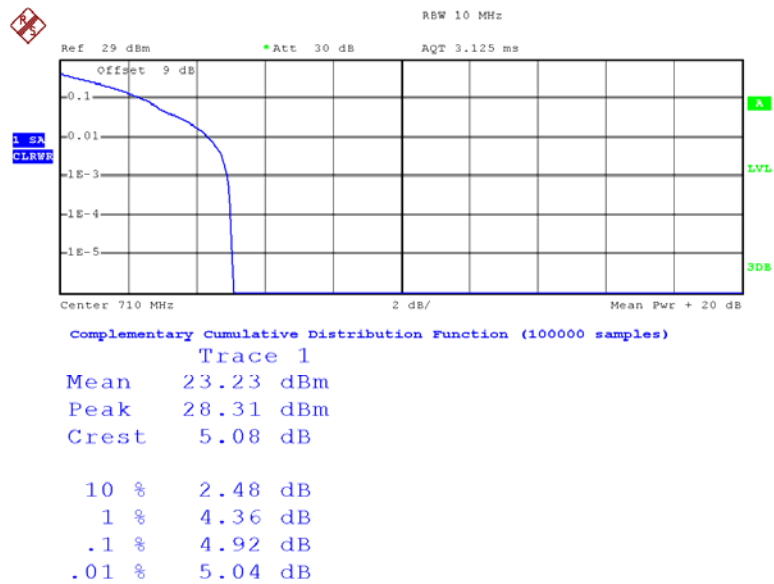
LTE Band 17

QPSK-1RB, Low Channel

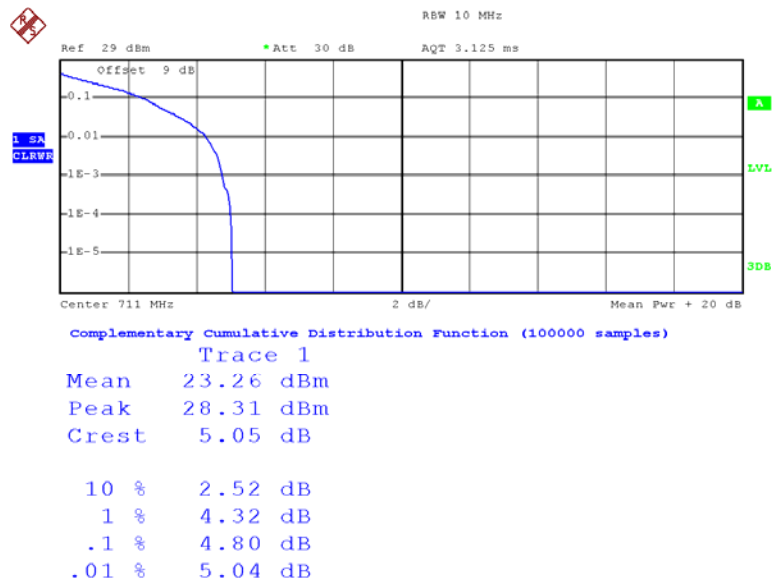


Date: 10.MAR.2016 21:46:17

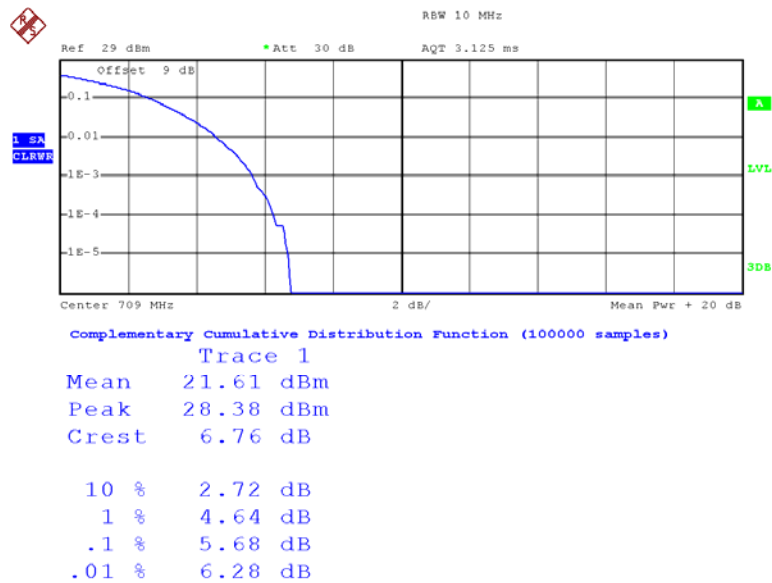
QPSK-1RB, Middle Channel



Date: 10.MAR.2016 21:46:44

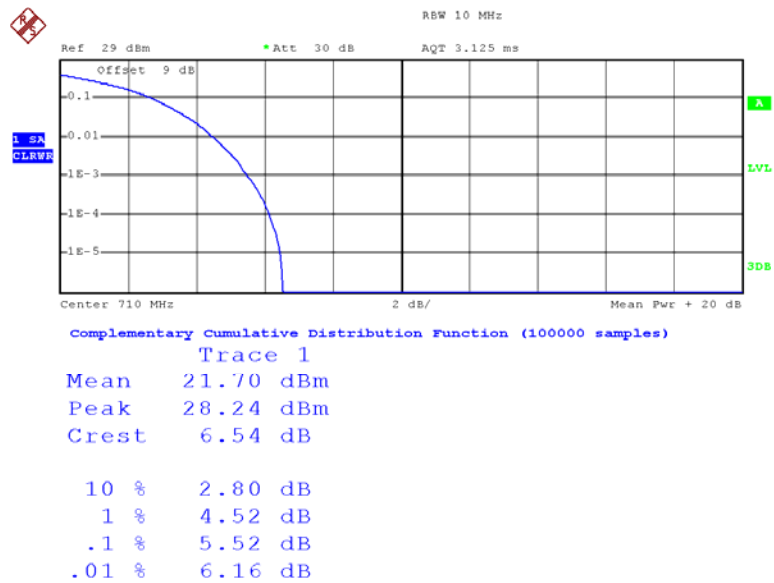
QPSK-1RB, High Channel

Date: 10.MAR.2016 21:48:51

QPSK- Full RB, Low Channel

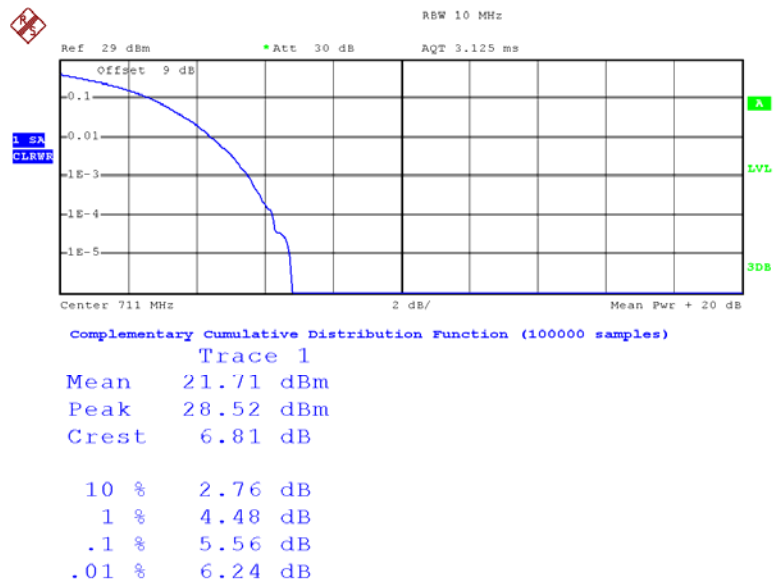
Date: 10.MAR.2016 21:45:39

QPSK- Full RB, Middle Channel



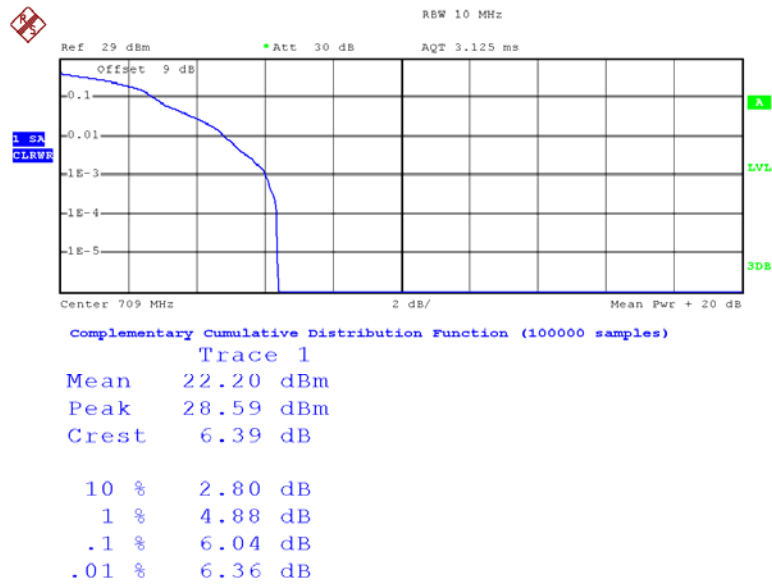
Date: 10.MAR.2016 21:47:00

QPSK- Full RB, High Channel



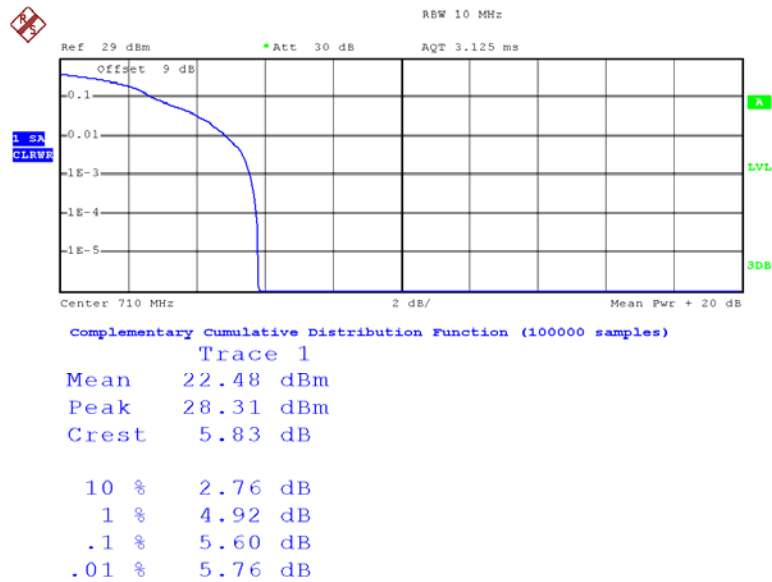
Date: 10.MAR.2016 21:48:31

16QAM- 1RB, Low Channel



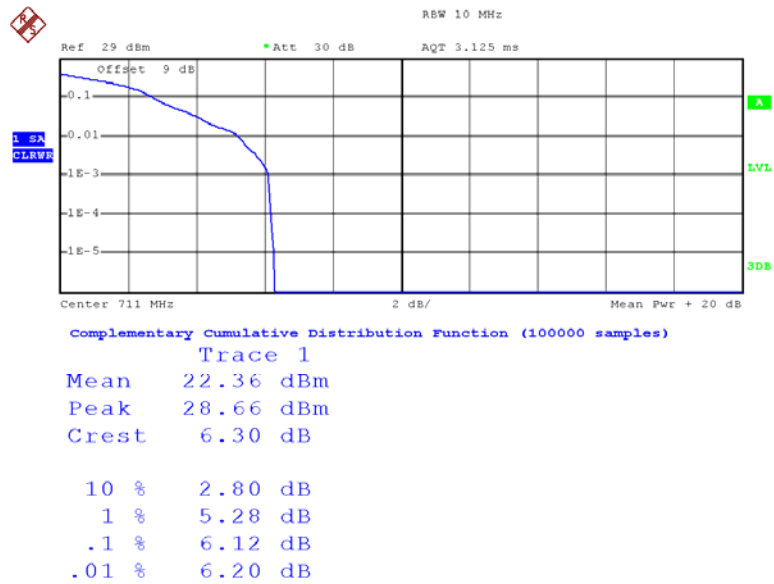
Date: 10.MAR.2016 21:46:10

16QAM- 1RB, Middle Channel



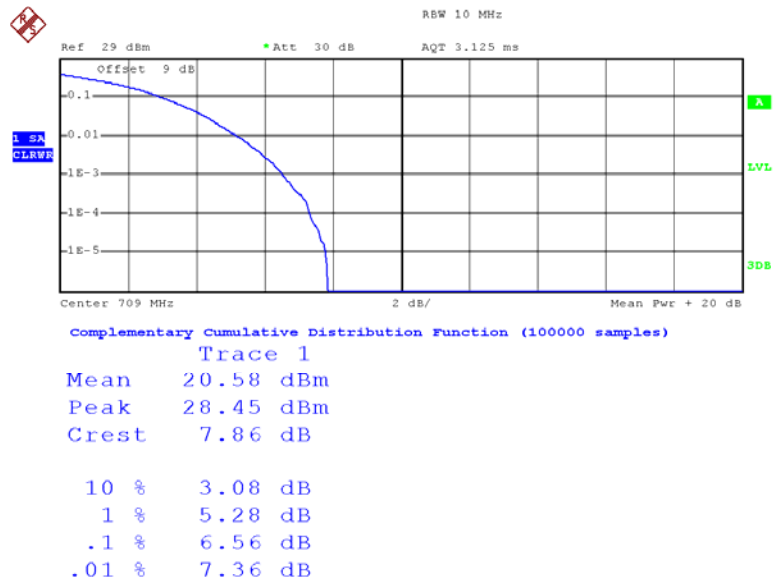
Date: 10.MAR.2016 21:46:50

16QAM- 1RB, High Channel



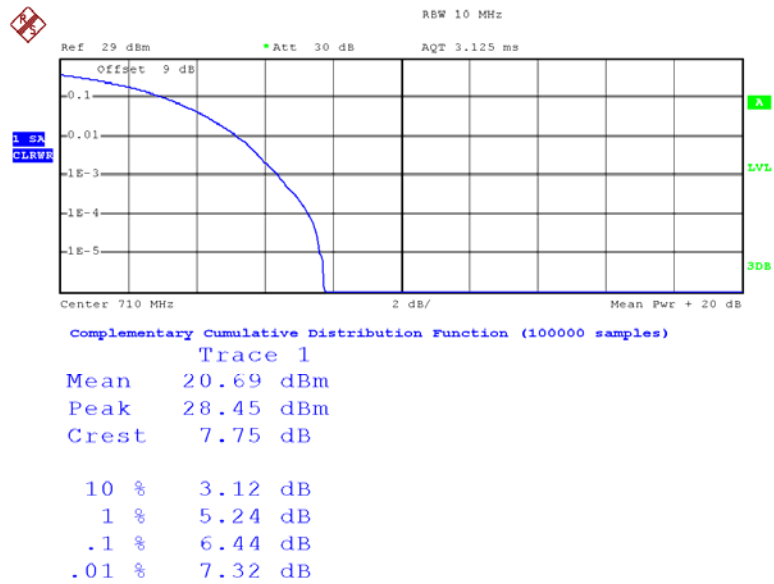
Date: 10.MAR.2016 21:48:45

16QAM- Full RB, Low Channel



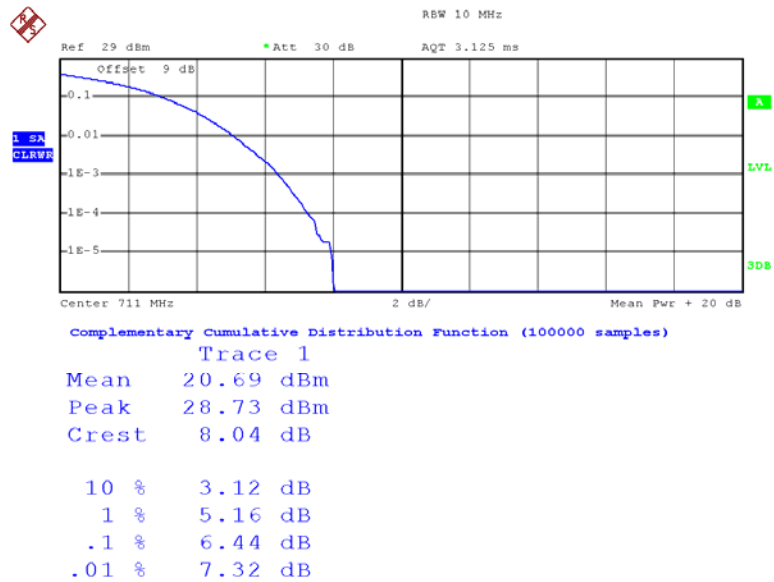
Date: 10.MAR.2016 21:45:45

16QAM- Full RB, Middle Channel



Date: 10.MAR.2016 21:46:55

16QAM- Full RB, High Channel



Date: 10.MAR.2016 21:48:35

ERP & EIRP

PART 22H

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	93.23	18.3	0.0	1	17.3	38.5	21.2
836.600	V	105.31	33.5	0.0	1	32.5	38.5	6.0
EGPRS 850 Middle Channel								
836.600	H	80.25	5.3	0.0	1	4.3	38.5	34.2
836.600	V	99.23	27.4	0.0	1	26.4	38.5	12.1
WCDMA Band V Middle Channel								
836.600	H	83.35	8.4	0.0	1	7.4	38.5	31.1
836.600	V	93.65	21.9	0.0	1	20.9	38.5	17.6

PART 24E

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)			
PCS 1900 Middle Channel								
1880.000	H	87.24	15.6	11.7	1.4	25.9	33.0	7.1
1880.000	V	89.62	18.2	11.7	1.4	28.5	33.0	4.5
EGPRS 1900 Middle Channel								
1880.000	H	84.00	12.4	11.7	1.4	22.7	33.0	10.3
1880.000	V	85.43	14	11.7	1.4	24.3	33.0	8.7
WCDMA Band II Middle Channel								
1880.000	H	79.73	8.1	11.7	1.4	18.4	33.0	14.6
1880.000	V	82.10	10.6	11.7	1.4	20.9	33.0	12.1

Part 27

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)			
WCDMA Band IV Middle Channel								
1732.600	H	80.60	7.6	10.9	1.4	17.1	30.0	12.9
1732.600	V	85.31	12	10.9	1.4	21.5	30.0	8.5

LTE Band 2

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 1.4M BW Middle Channel								
1880.000	H	81.27	9.7	11.7	1.4	20.0	33.00	13.0
1880.000	V	82.21	10.8	11.7	1.4	21.1	33.00	11.9
QPSK 3M BW Middle Channel								
1880.000	H	79.45	7.9	11.7	1.4	18.2	33.00	14.8
1880.000	V	80.37	8.9	11.7	1.4	19.2	33.00	13.8
QPSK 5M BW Middle Channel								
1880.000	H	77.49	5.9	11.7	1.4	16.2	33.00	16.8
1880.000	V	79.38	7.9	11.7	1.4	18.2	33.00	18.8
QPSK 10M BW Middle Channel								
1880.000	H	77.55	6	11.7	1.4	16.3	33.00	16.7
1880.000	V	79.43	8	11.7	1.4	18.3	33.00	14.7
QPSK 15M BW Middle Channel								
1880.000	H	77.35	5.8	11.7	1.4	16.1	33.00	16.9
1880.000	V	79.29	7.8	11.7	1.4	18.1	33.00	14.9
QPSK 20M BW Middle Channel								
1880.000	H	76.60	5	11.7	1.4	15.3	33.00	17.7
1880.000	V	78.77	7.3	11.7	1.4	17.6	33.00	14.4
16-QAM 1.4M BW Middle Channel								
1880.000	H	81.15	9.6	11.7	1.4	19.9	33.00	13.1
1880.000	V	82.17	10.7	11.7	1.4	21.0	33.00	12.0
16-QAM 3M BW Middle Channel								
1880.000	H	79.08	7.5	11.7	1.4	17.8	33.00	15.2
1880.000	V	80.13	8.7	11.7	1.4	19.0	33.00	14.0
16-QAM 5M BW Middle Channel								
1880.000	H	78.01	6.4	11.7	1.4	16.7	33.00	16.3
1880.000	V	80.04	8.6	11.7	1.4	18.9	33.00	14.1
16-QAM 10M BW Middle Channel								
1880.000	H	76.52	4.9	11.7	1.4	15.2	33.00	17.8
1880.000	V	79.60	8.1	11.7	1.4	18.4	33.00	14.6
16-QAM 15M BW Middle Channel								
1880.000	H	75.33	6.7	11.7	1.4	15.0	33.00	19.0
1880.000	V	78.46	7	11.7	1.4	19.3	33.00	15.7
16-QAM 20M BW Middle Channel								
1880.000	H	74.75	3.2	11.7	1.4	13.5	33.00	19.5
1880.000	V	79.86	8.4	11.7	1.4	18.7	33.00	14.3

LTE Band 4

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 1.4M BW Middle Channel								
1732.500	H	84.05	11	10.9	1.4	20.5	30.00	9.5
1732.500	V	82.83	9.5	10.9	1.4	19.0	30.00	11.0
QPSK 3M BW Middle Channel								
1732.500	H	81.69	8.7	10.9	1.4	18.2	30.00	11.8
1732.500	V	80.47	7.1	10.9	1.4	16.6	30.00	13.4
QPSK 5M BW Middle Channel								
1732.500	H	80.76	7.8	10.9	1.4	17.3	30.00	12.7
1732.500	V	79.58	6.3	10.9	1.4	15.8	30.00	14.2
QPSK 10M BW Middle Channel								
1732.500	H	79.96	7	10.9	1.4	16.5	30.00	13.5
1732.500	V	78.83	5.5	10.9	1.4	15.0	30.00	15.0
QPSK 15M BW Middle Channel								
1732.500	H	80.16	7.2	10.9	1.4	16.7	30.00	13.3
1732.500	V	79.05	5.7	10.9	1.4	15.2	30.00	14.8
QPSK 20M BW Middle Channel								
1732.500	H	79.98	7	10.9	1.4	16.5	30.00	13.5
1732.500	V	78.90	5.6	10.9	1.4	15.1	30.00	14.9
16-QAM 1.4M BW Middle Channel								
1732.500	H	84.07	11.1	10.9	1.4	20.6	30.00	9.4
1732.500	V	82.99	9.7	10.9	1.4	19.2	30.00	10.8
16-QAM 3M BW Middle Channel								
1732.500	H	81.89	8.9	10.9	1.4	18.4	30.00	11.6
1732.500	V	80.96	7.6	10.9	1.4	17.1	30.00	12.9
16-QAM 5M BW Middle Channel								
1732.500	H	81.03	8	10.9	1.4	17.5	30.00	12.5
1732.500	V	80.01	6.7	10.9	1.4	16.2	30.00	13.8
16-QAM 10M BW Middle Channel								
1732.500	H	79.51	6.5	10.9	1.4	16.0	30.00	14.0
1732.500	V	78.52	5.2	10.9	1.4	14.7	30.00	15.3
16-QAM 15M BW Middle Channel								
1732.500	H	79.06	6.1	10.9	1.4	15.6	30.00	14.4
1732.500	V	78.05	4.7	10.9	1.4	14.2	30.00	15.8
16-QAM 20M BW Middle Channel								
1732.500	H	78.74	5.7	10.9	1.4	15.2	30.00	14.8
1732.500	V	77.77	4.4	10.9	1.4	13.9	30.00	16.1

LTE Band 7

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 5M BW Middle Channel								
2535.000	H	75.81	4.6	13.1	2.5	15.2	33.0	17.8
2535.000	V	78.30	8.6	13.1	2.5	19.2	33.0	13.8
QPSK 10M BW Middle Channel								
2535.000	H	74.89	3.7	13.1	2.5	14.3	33.0	18.7
2535.000	V	77.36	7.6	13.1	2.5	18.2	33.0	14.8
QPSK 15M BW Middle Channel								
2535.000	H	74.08	2.9	13.1	2.5	13.5	33.0	19.5
2535.000	V	77.61	7.9	13.1	2.5	18.5	33.0	14.5
QPSK 20M BW Middle Channel								
2535.000	H	73.53	2.3	13.1	2.5	12.9	33.0	20.1
2535.000	V	76.03	6.3	13.1	2.5	16.9	33.0	16.1
16-QAM 5M BW Middle Channel								
2535.000	H	75.54	4.3	13.1	2.5	14.9	33.0	18.1
2535.000	V	78.02	8.3	13.1	2.5	18.9	33.0	14.1
16-QAM 10M BW Middle Channel								
2535.000	H	74.67	3.5	13.1	2.5	14.1	33.0	18.9
2535.000	V	77.12	7.4	13.1	2.5	18.0	33.0	15.0
16-QAM 15M BW Middle Channel								
2535.000	H	73.02	1.8	13.1	2.5	12.4	33.0	20.6
2535.000	V	75.56	5.8	13.1	2.5	16.4	33.0	16.6
16-QAM 20M BW Middle Channel								
2535.000	H	72.51	1.3	13.1	2.5	11.9	33.0	21.1
2535.000	V	75.02	5.3	13.1	2.5	15.9	33.0	17.1

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 5M BW Middle Channel								
710.000	H	92.31	14.5	0.0	0.9	13.6	34.8	21.2
710.000	V	94.67	20.3	0.0	0.9	19.4	34.8	15.4
QPSK 10M BW Middle Channel								
710.000	H	90.00	13.2	0.0	0.9	12.3	34.8	22.5
710.000	V	94.42	20.1	0.0	0.9	19.2	34.8	15.6
16-QAM 5M BW Middle Channel								
710.000	H	90.71	13.9	0.0	0.9	13.0	34.8	21.8
710.000	V	94.58	20.2	0.0	0.9	19.3	34.8	15.5
16-QAM 10M BW Middle Channel								
710.000	H	89.89	13.1	0.0	0.9	12.2	34.8	22.6
710.000	V	93.26	19.9	0.0	0.9	19.0	34.8	15.8

Note:

- 1) The unit of Antenna Gain is dBd for frequency below 1GHz, and the unit of Antenna Gain is dBi for frequency above 1GHz.
- 2) Absolute Level = SG Level - Cable loss + Antenna Gain
- 3) Margin = Limit-Absolute Level

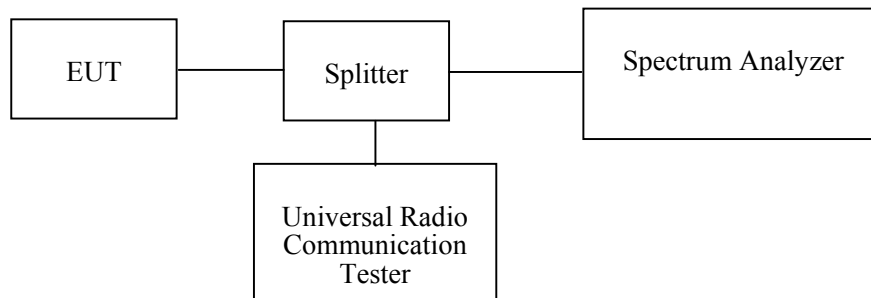
FCC §2.1049, §22.917, §22.905 & §24.238 & §27.53- OCCUPIED BANDWIDTH**Applicable Standard**

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	2015-05-09	2016-05-09
R&S	Spectrum Analyzer	FSEM	831259/019	2015-05-09	2016-05-09
R&S	Universal Radio Communication Tester	CMU200	109 038	2015-05-09	2016-05-09
R&S	Wideband Radio Communication Tester	CMW500	106891	2015-11-23	2016-11-23
N/A	Coaxial Cable	0.1m	N/A	2015-05-06	2016-05-06
E-Microwave	DC Blocking	EMDCB-00036	0E01201047	2015-05-06	2016-05-06
E-Microwave	Attenuator(10dB)	EMCA10-5RN	0E01203239	2015-05-08	2016-05-08
Pasternack	RF Coaxial Cable	RF-01	N/A	2015-05-06	2016-05-06
Pasternack	RF Coaxial Cable	RF-02	N/A	2015-05-06	2016-05-06
N/A	Two-way Splitter	ODP-1-6-2S	0E0120142	2015-05-06	2016-05-06

* **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:	19.1~25.1 °C
Relative Humidity:	41~48%
ATM Pressure:	101.6~101.8 kPa

The testing was performed by Dean Liu from 2016-03-07 to 2016-03-11.

Test Mode: Transmitting

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

Band	Channel No.	Mode	99% Occupied Bandwidth (kHz)	26 dB Occupied Bandwidth (kHz)
Cellular	190	GSM	244	315
		EDGE	248	317
PCS	661	PCS	244	315
		EDGE	244	317
WCDMA Band II	9400	Rel 99	4228	4890
	9400	HSDPA	4228	4930
	9400	HSUPA	4228	4910
WCDMA Band IV	1413	Rel 99	4228	4890
	1413	HSDPA	4228	4870
	1413	HSUPA	4228	4930
WCDMA Band V	4175	Rel 99	4269	4990
	4175	HSDPA	4248	4970
	4175	HSUPA	4248	4970

Ref Lvl 13 dB Offset 35 dBm

Delta 1 [T1] 1.56 dB

314.62925852 kHz

RBW 3 kHz RF Att 50 dB

VBW 10 kHz

SWT 280 ms Unit dBm

Center 836.6 MHz 100 kHz/ Span 1 MHz

1MAX 0.45 dBm

1 [T1] 1.56 dB

2 [T1] 11.81 dBm

3 [T1] 9.94 dBm

4 [T1] 836.72325843 MHz

5 [T1] 836.44268537 MHz

6 [T1] 244.48897796 kHz

7 [T1] 314.62925852 kHz

8 [T1] 836.47875752 MHz

9 [T1] 836.72325843 MHz

10 [T1] 836.72325843 MHz

11 [T1] 836.72325843 MHz

12 [T1] 836.72325843 MHz

13 [T1] 836.72325843 MHz

14 [T1] 836.72325843 MHz

15 [T1] 836.72325843 MHz

16 [T1] 836.72325843 MHz

17 [T1] 836.72325843 MHz

18 [T1] 836.72325843 MHz

19 [T1] 836.72325843 MHz

20 [T1] 836.72325843 MHz

21 [T1] 836.72325843 MHz

22 [T1] 836.72325843 MHz

23 [T1] 836.72325843 MHz

24 [T1] 836.72325843 MHz

25 [T1] 836.72325843 MHz

26 [T1] 836.72325843 MHz

27 [T1] 836.72325843 MHz

28 [T1] 836.72325843 MHz

29 [T1] 836.72325843 MHz

30 [T1] 836.72325843 MHz

31 [T1] 836.72325843 MHz

32 [T1] 836.72325843 MHz

33 [T1] 836.72325843 MHz

34 [T1] 836.72325843 MHz

35 [T1] 836.72325843 MHz

36 [T1] 836.72325843 MHz

37 [T1] 836.72325843 MHz

38 [T1] 836.72325843 MHz

39 [T1] 836.72325843 MHz

40 [T1] 836.72325843 MHz

41 [T1] 836.72325843 MHz

42 [T1] 836.72325843 MHz

43 [T1] 836.72325843 MHz

44 [T1] 836.72325843 MHz

45 [T1] 836.72325843 MHz

46 [T1] 836.72325843 MHz

47 [T1] 836.72325843 MHz

48 [T1] 836.72325843 MHz

49 [T1] 836.72325843 MHz

50 [T1] 836.72325843 MHz

51 [T1] 836.72325843 MHz

52 [T1] 836.72325843 MHz

53 [T1] 836.72325843 MHz

54 [T1] 836.72325843 MHz

55 [T1] 836.72325843 MHz

56 [T1] 836.72325843 MHz

57 [T1] 836.72325843 MHz

58 [T1] 836.72325843 MHz

59 [T1] 836.72325843 MHz

60 [T1] 836.72325843 MHz

61 [T1] 836.72325843 MHz

62 [T1] 836.72325843 MHz

63 [T1] 836.72325843 MHz

64 [T1] 836.72325843 MHz

65 [T1] 836.72325843 MHz

66 [T1] 836.72325843 MHz

67 [T1] 836.72325843 MHz

68 [T1] 836.72325843 MHz

69 [T1] 836.72325843 MHz

70 [T1] 836.72325843 MHz

71 [T1] 836.72325843 MHz

72 [T1] 836.72325843 MHz

73 [T1] 836.72325843 MHz

74 [T1] 836.72325843 MHz

75 [T1] 836.72325843 MHz

76 [T1] 836.72325843 MHz

77 [T1] 836.72325843 MHz

78 [T1] 836.72325843 MHz

79 [T1] 836.72325843 MHz

80 [T1] 836.72325843 MHz

81 [T1] 836.72325843 MHz

82 [T1] 836.72325843 MHz

83 [T1] 836.72325843 MHz

84 [T1] 836.72325843 MHz

85 [T1] 836.72325843 MHz

86 [T1] 836.72325843 MHz

87 [T1] 836.72325843 MHz

88 [T1] 836.72325843 MHz

89 [T1] 836.72325843 MHz

90 [T1] 836.72325843 MHz

91 [T1] 836.72325843 MHz

92 [T1] 836.72325843 MHz

93 [T1] 836.72325843 MHz

94 [T1] 836.72325843 MHz

95 [T1] 836.72325843 MHz

96 [T1] 836.72325843 MHz

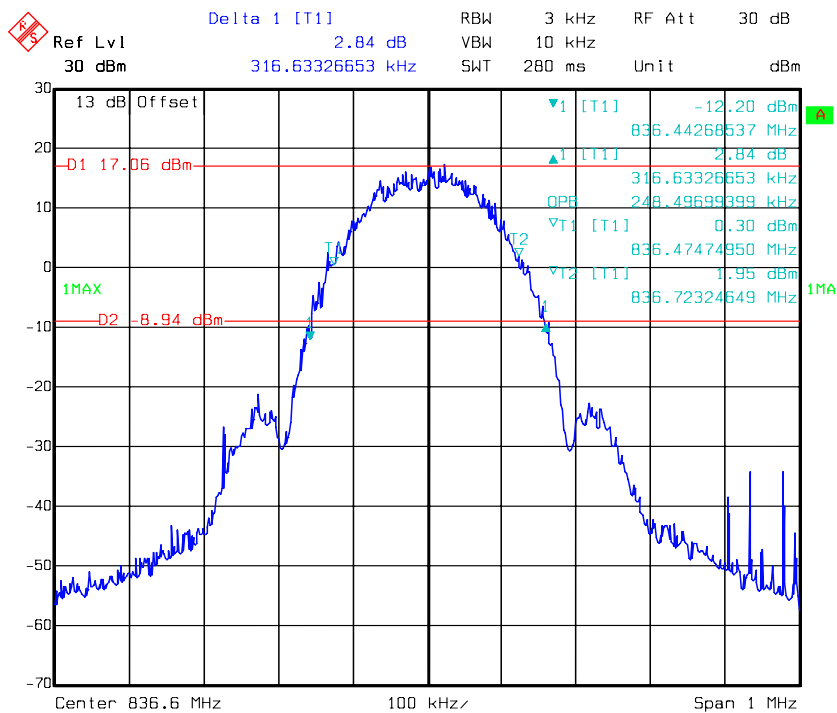
97 [T1] 836.72325843 MHz

98 [T1] 836.72325843 MHz

99 [T1] 836.72325843 MHz

100 [T1] 836.72325843 MHz

EDGE 850 Cellular Band



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[illegible]

Ref Lvl 35 dBm

Delta 1 [T1] -0.88 dB

316.63326653 kHz

RBW 3 kHz

VBW 10 kHz

SWT 280 ms

RF Att 40 dB

Unit dBm

13 dB Offset

D1 18.6 dBm

1MAX

D2 -7.4 dBm

1MA

Center 1.88 GHz

100 kHz

Span 1 MHz

1 [T1] -7.14 dBm

1 [T1] -0.88 dB

316.63326653 kHz

OPB 244.48897796 kHz

1 [T1] 5.22 dBm

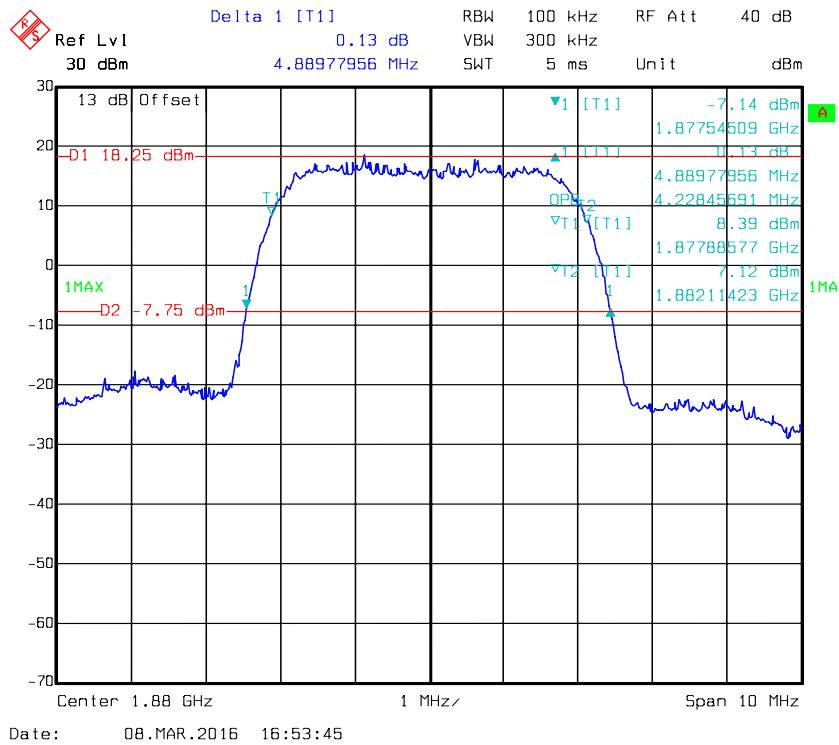
1 [T1] 1.87984269 GHz

1 [T1] 5.25 dBm

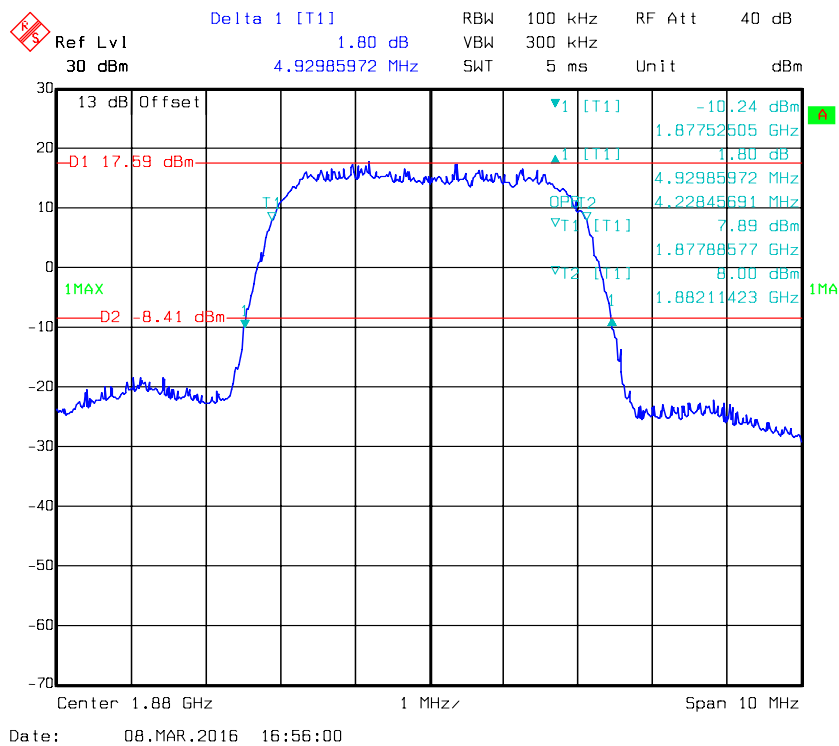
1 [T1] 1.88012925 GHz

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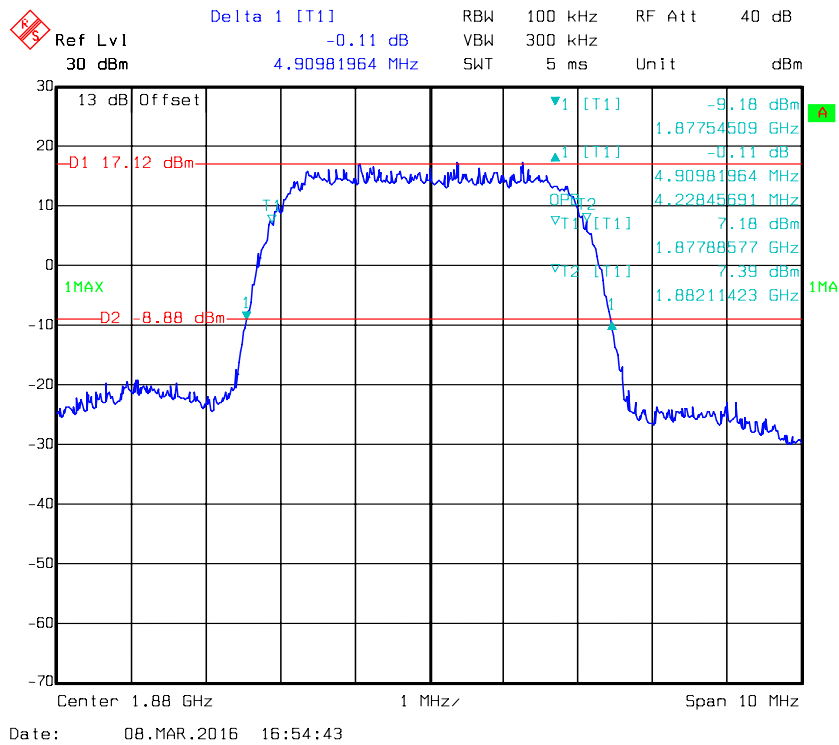
REL99 Band II



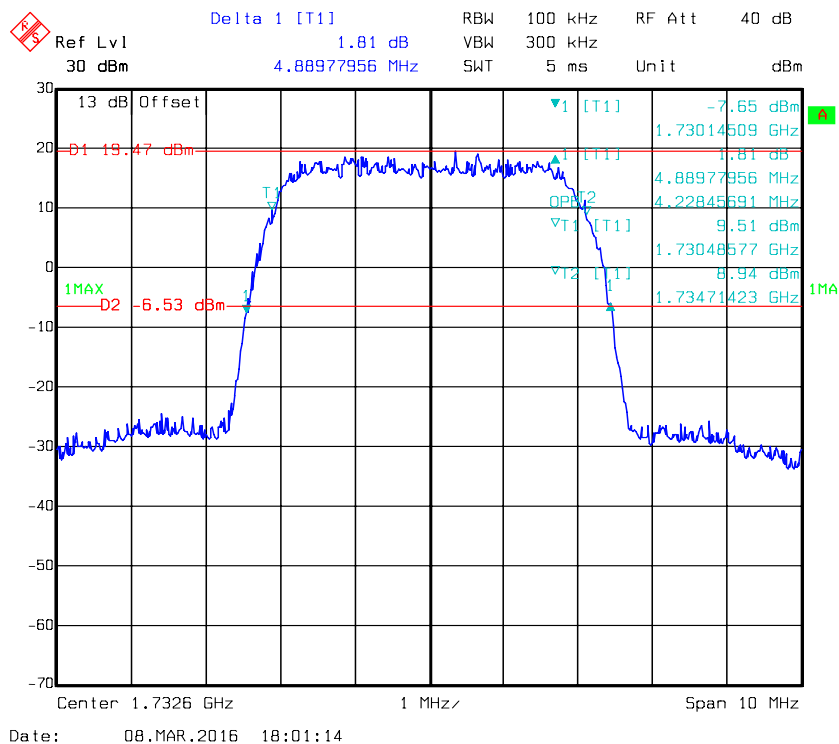
HSDPA Band II



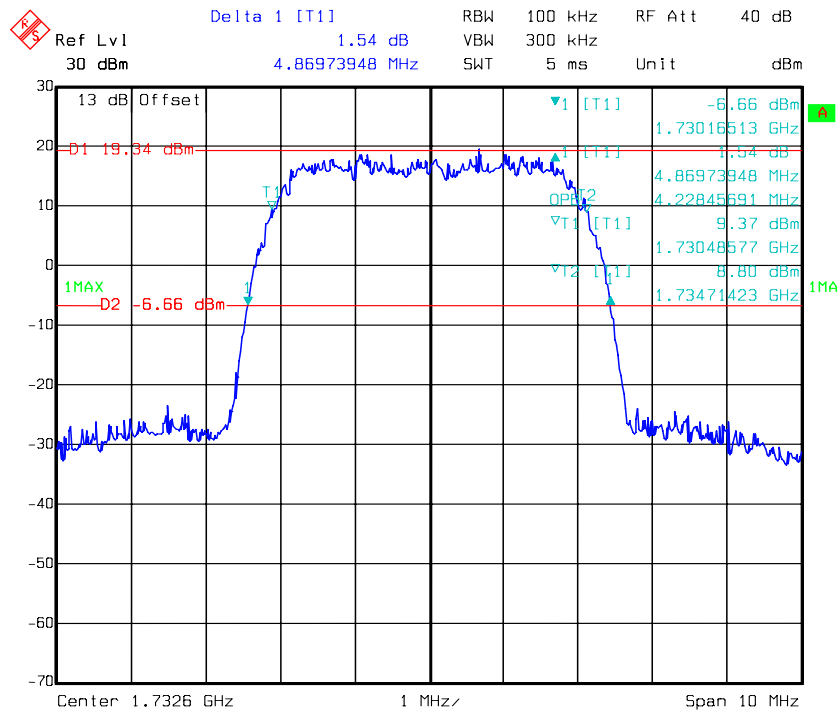
HSUPA Band II



REL99 Band IV

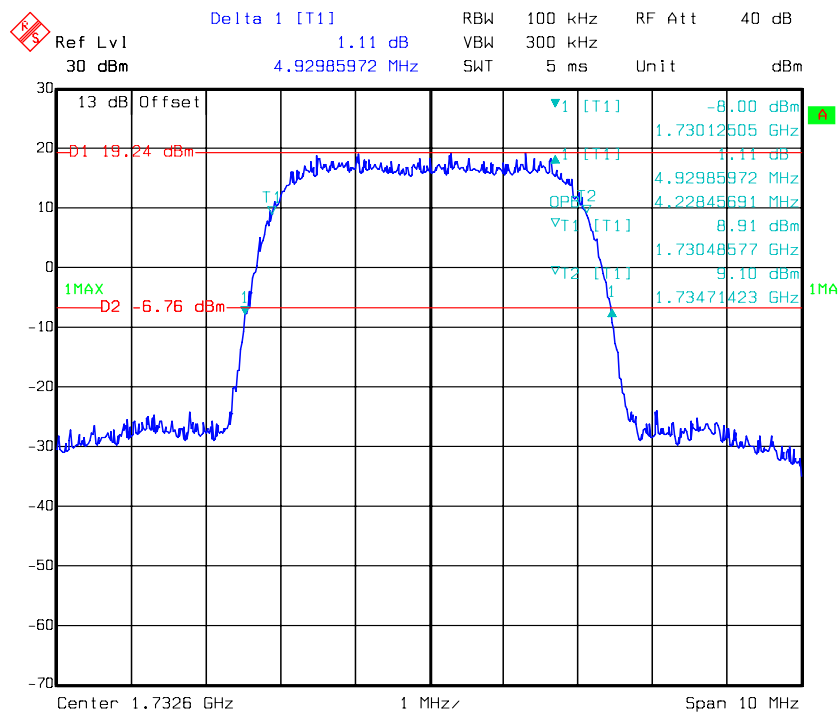


HSDPA Band IV



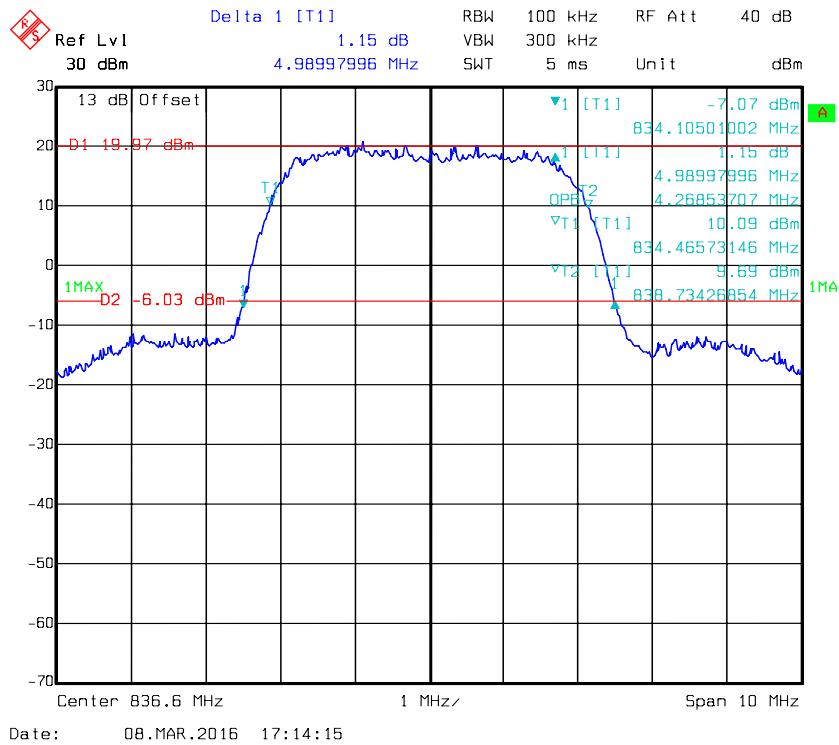
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HSUPA Band IV

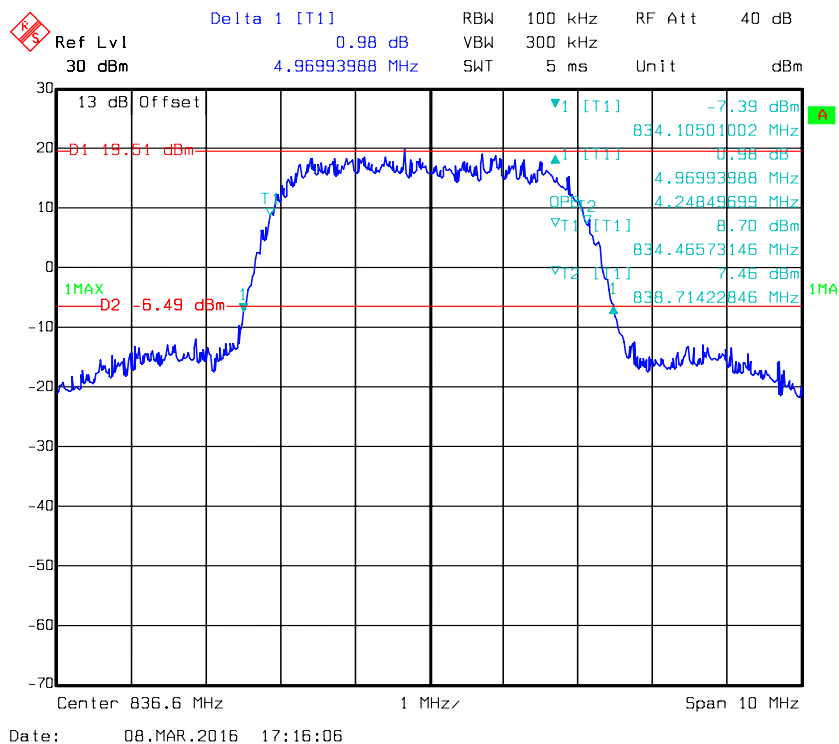


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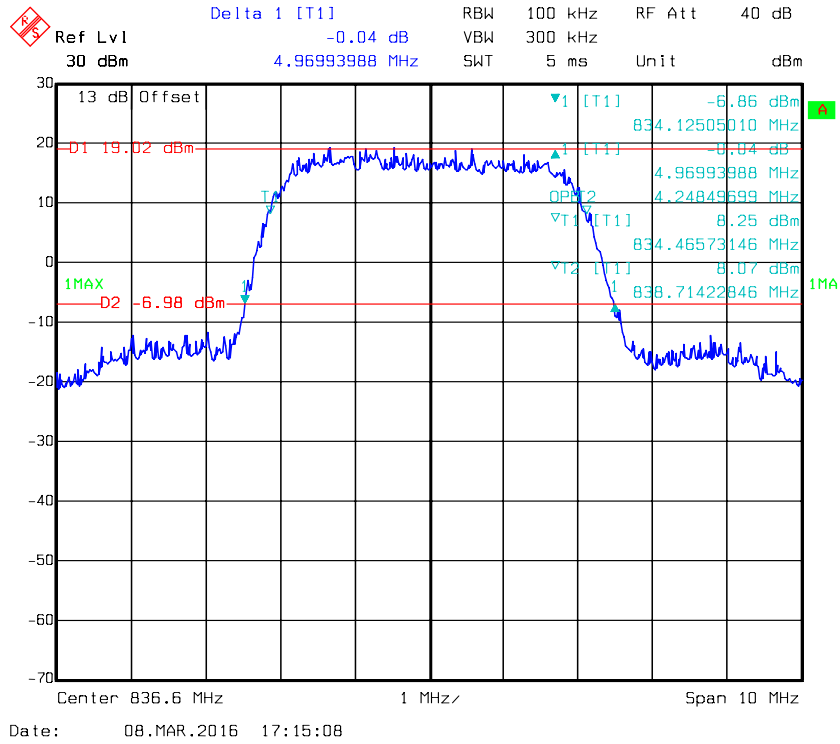
REL99 Band V



HSDPA Band V

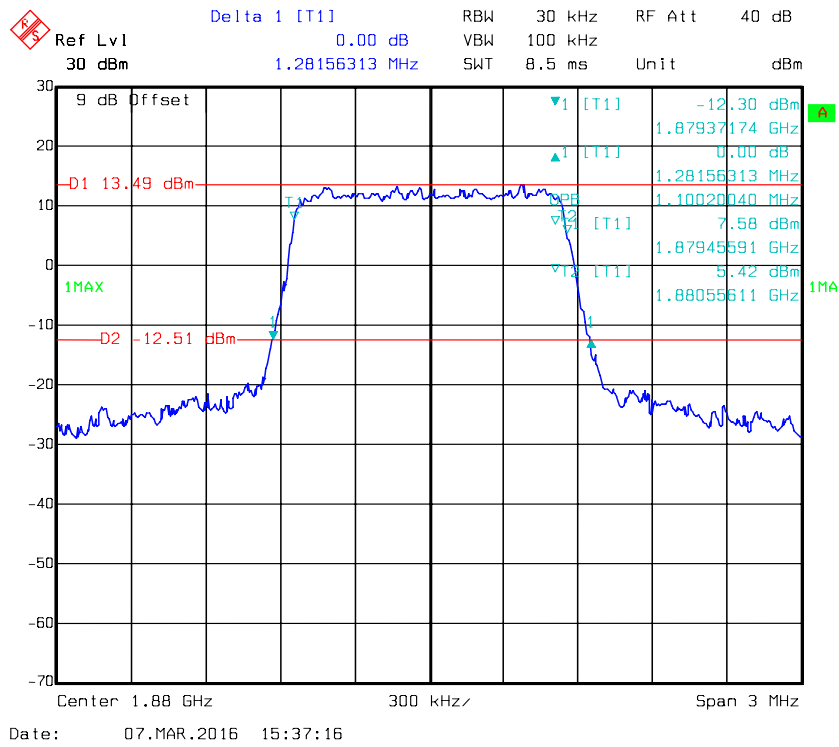


HSUPA Band V

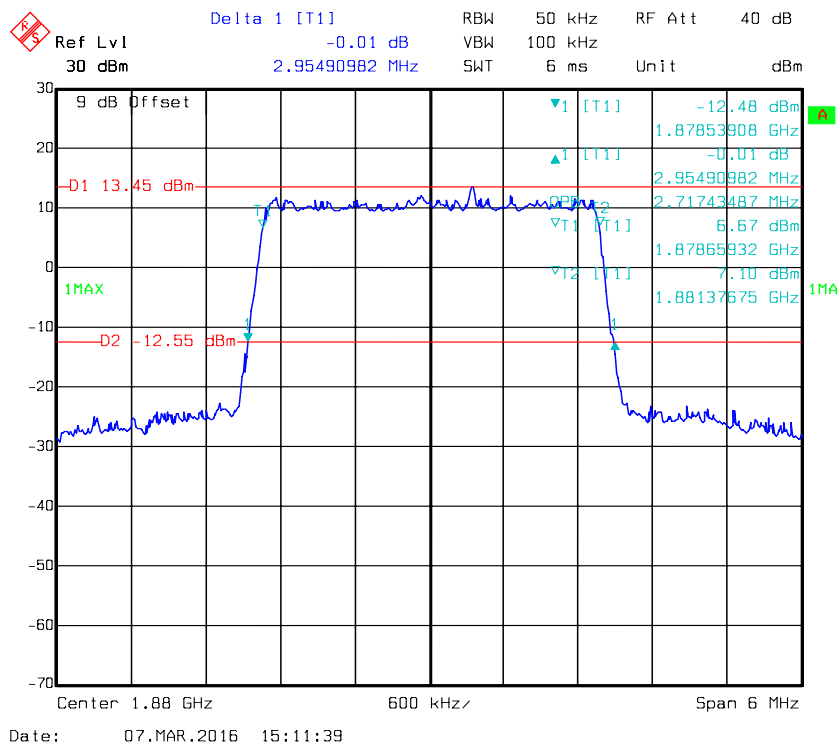


LTE Band	Test Modulation	Test Bandwidth	Test Channel	99% Occupied Bandwidth	26 dB Bandwidth
				MHz	MHz
Band 2	QPSK	1.4M	Middle	1.100	1.282
		3M		2.717	2.955
		5M		4.549	5.075
		10M		9.098	10.431
		15M		13.587	15.210
		20M		18.036	19.609
	16-QAM	1.4M	Middle	1.100	1.275
		3M		2.717	2.991
		5M		4.549	5.110
		10M		9.098	10.271
		15M		13.587	15.090
		20M		18.036	19.559
Band 4	QPSK	1.4M	Middle	1.106	1.281
		3M		2.705	2.958
		5M		4.549	5.114
		10M		9.098	10.395
		15M		13.587	15.134
		20M		18.036	19.719
	16-QAM	1.4M	Middle	1.106	1.296
		3M		2.705	2.982
		5M		4.549	5.114
		10M		9.098	10.275
		15M		13.587	15.014
		20M		18.036	19.719
Band 7	QPSK	5M	Middle	4.569	5.170
		10M		9.178	10.581
		15M		13.647	15.150
		20M		18.116	19.749
	16-QAM	5M	Middle	4.549	5.130
		10M		9.138	10.501
		15M		13.587	15.391
		20M		18.036	19.749
Band 17	QPSK	5M	Middle	4.529	5.050
		10M		9.098	10.180
	16-QAM	5M	Middle	4.549	5.070
		10M		9.558	10.220

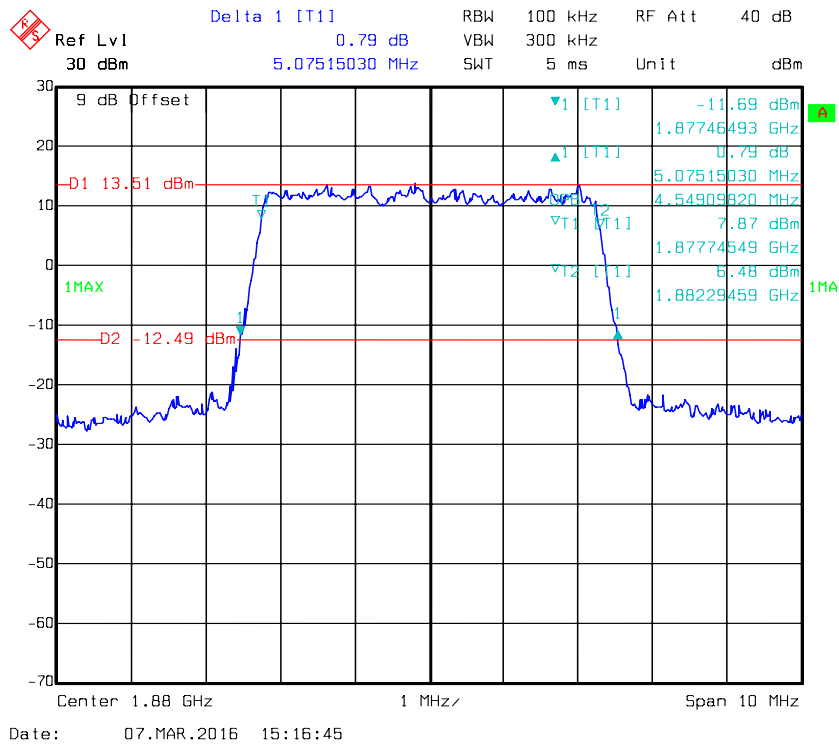
QPSK, Band 2-1.4M



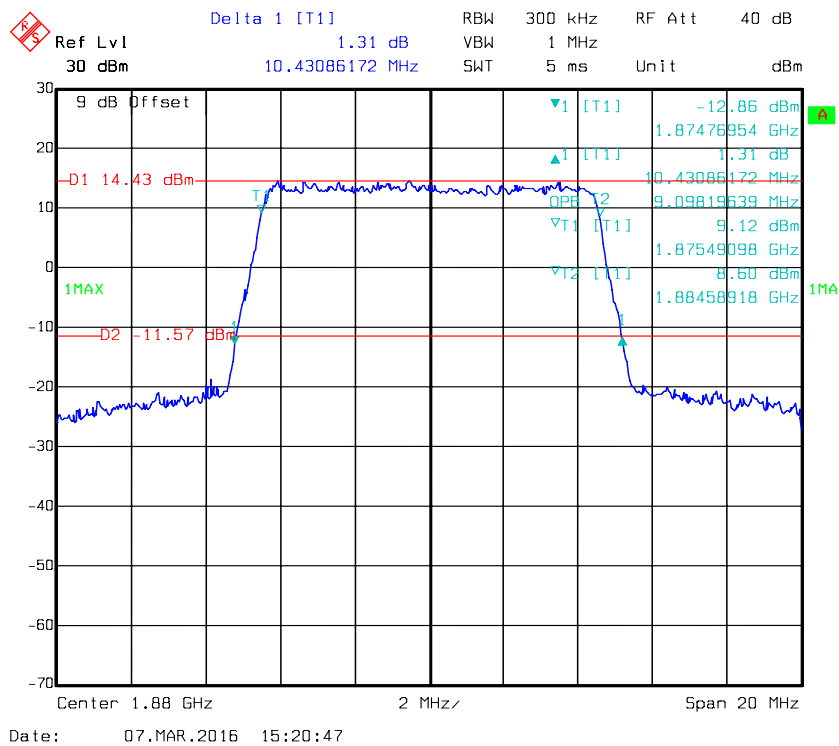
QPSK, Band 2-3M



QPSK, Band 2-5M



QPSK, Band 2-10M



Delta 1 [T1] RBW 300 kHz RF Att 40 dB
 Ref Lvl 1.01 dB VBW 1 MHz
 30 dBm 15.21042084 MHz SWT 5 ms Unit dBm

9 dB Offset
 -D1 13.15 dBm
 -D2 -12.85 dBm
 1MAX
 1MA
 [T1] -14.10 dBm
 1.87239479 GHz
 1.01 dB
 15.21042084 MHz
 13.58717435 MHz
 1.87323647 GHz
 7.84 dBm
 1.88682365 GHz

Center 1.88 GHz 3 MHz/ Span 30 MHz

Date: 07.MAR.2016 15:24:52

Ref Lvl 30 dBm

Delta 1 [T1] 1.17 dB

RBW 300 kHz

RF Att 40 dB

VBW 1 MHz

SWT 5 ms

Unit dBm

9 dB Offset

D1 12.7 dBm

D2 -13.3 dBm

1MAX

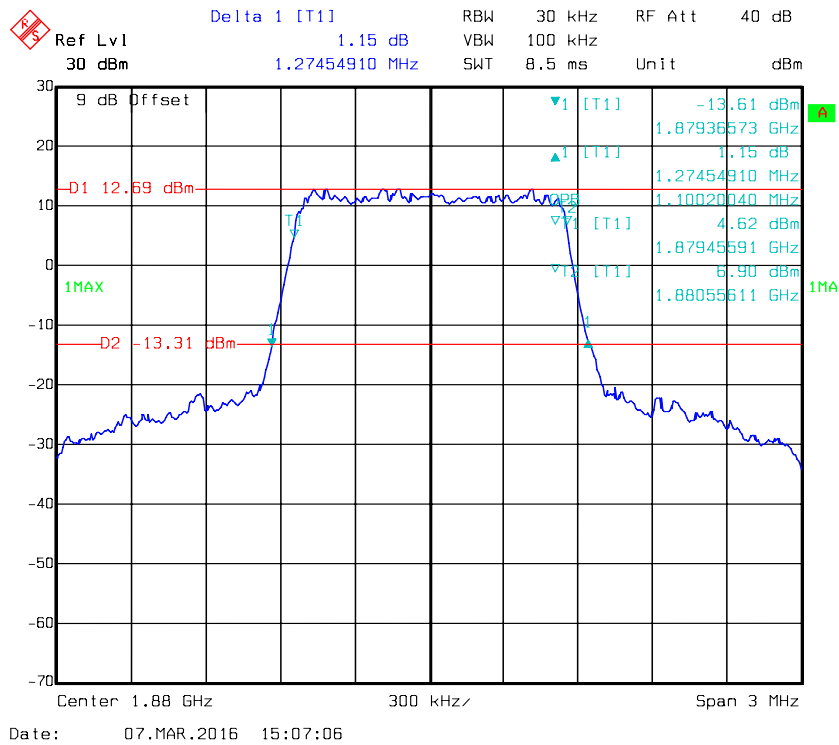
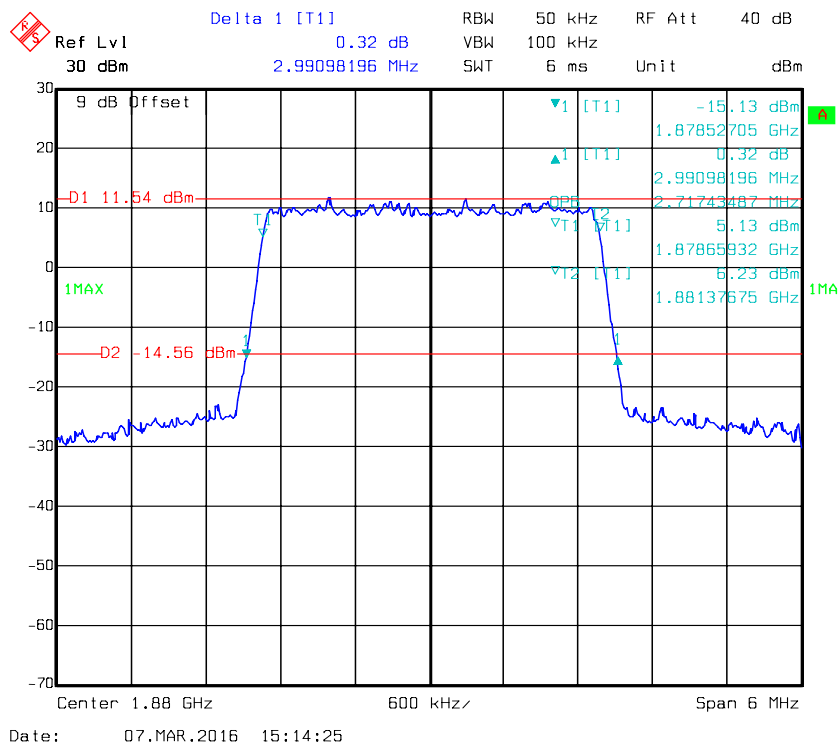
1MA

Center 1.88 GHz

4 MHz

Span 40 MHz

Date: 07.MAR.2016 15:28:56

16-QAM, Band 2-1.4M**16-QAM, Band 2-3M**

Delta 1 [T1] 1.43 dB
 RBW 100 kHz RF Att 40 dB
 Ref Lvl 30 dBm 5.11022044 MHz SWF 5 ms Unit dBm

9 dB Offset
 D1 12.28 dBm
 D2 -13.72 dBm
 1MAX
 1MA

[T1] -14.40 dBm
 1.87744489 GHz
 1.43 dB
 5.11022044 MHz
 4.54909820 MHz
 7.20 dBm
 1.87774549 GHz
 5.90 dBm
 1.88229459 GHz

Center 1.88 GHz 1 MHz/ Span 10 MHz

Date: 07.MAR.2016 15:18:54

Ref Lvl 30 dBm

Delta 1 [T1] -0.46 dB

RBW 300 kHz

RF Att 40 dB

VBW 1 MHz

SWT 5 ms

Unit dBm

9 dB Offset

-D1 13.92 dBm

1MAX

-D2 -12.08 dBm

1MA

▼1 [T1] -11.55 dBm 1.87488978 GHz

▲1 [T1] -0.46 dBm 10.27054108 MHz

▼2 [T1] 9.09819539 MHz

▲2 [T1] 7.78 dBm 1.87549098 GHz

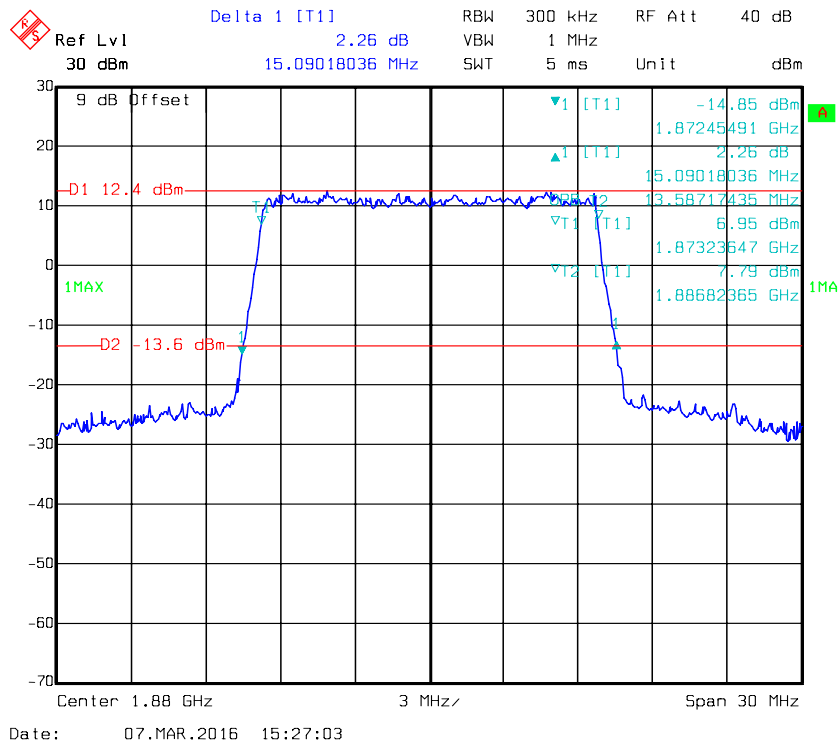
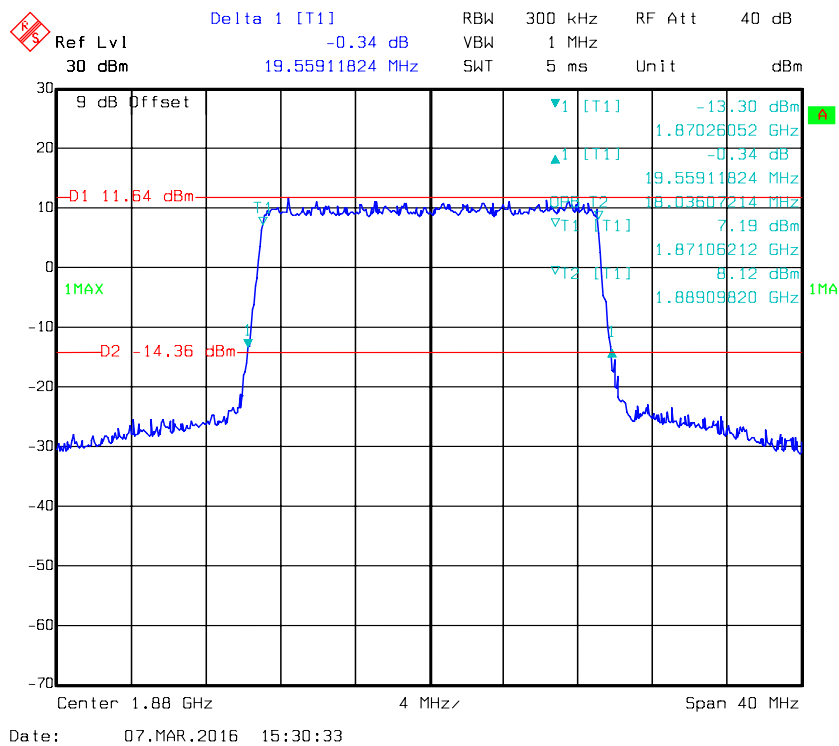
▼12 [T1] 8.52 dBm 1.88458918 GHz

Center 1.88 GHz

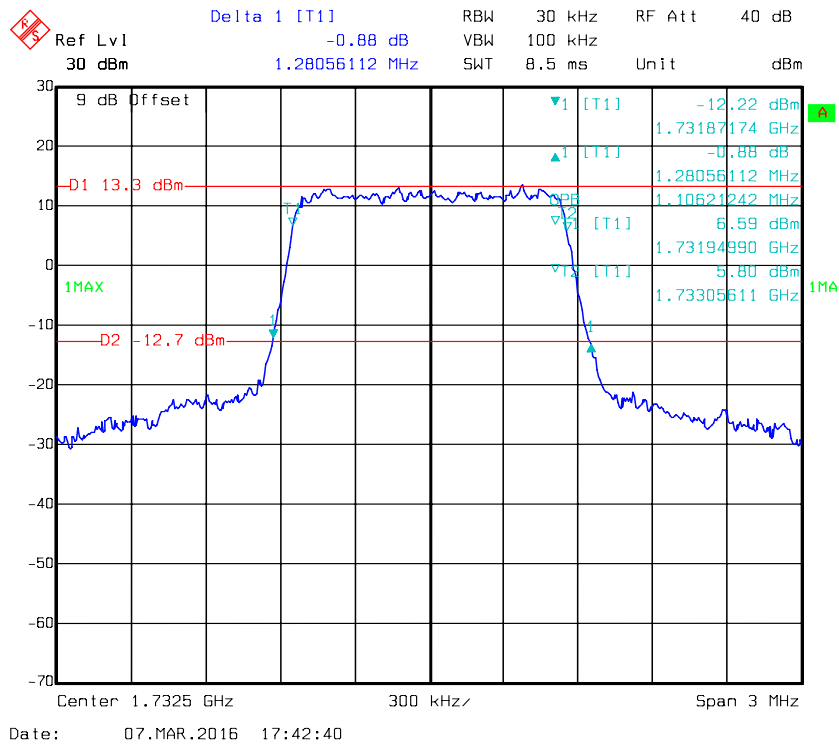
2 MHz

Span 20 MHz

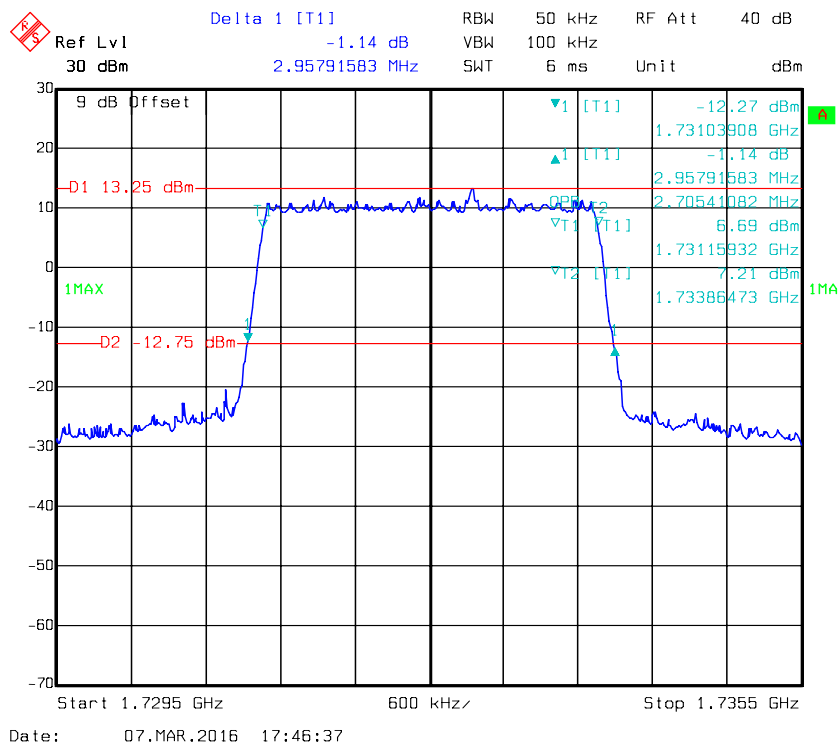
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16-QAM, Band 2-15M**16-QAM, Band 2-20M**

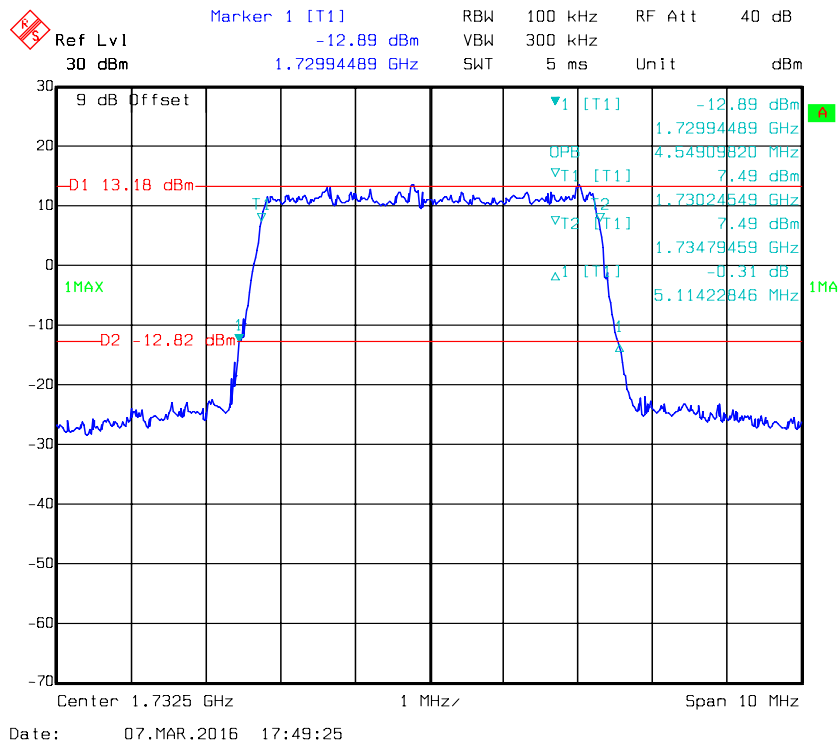
QPSK, Band 4-1.4M



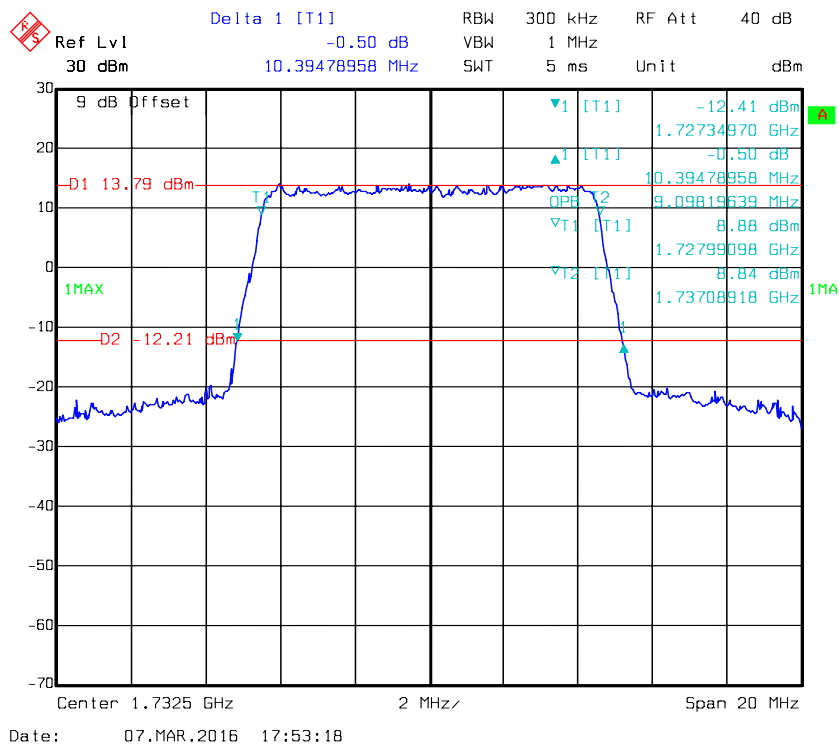
QPSK, Band 4-3M



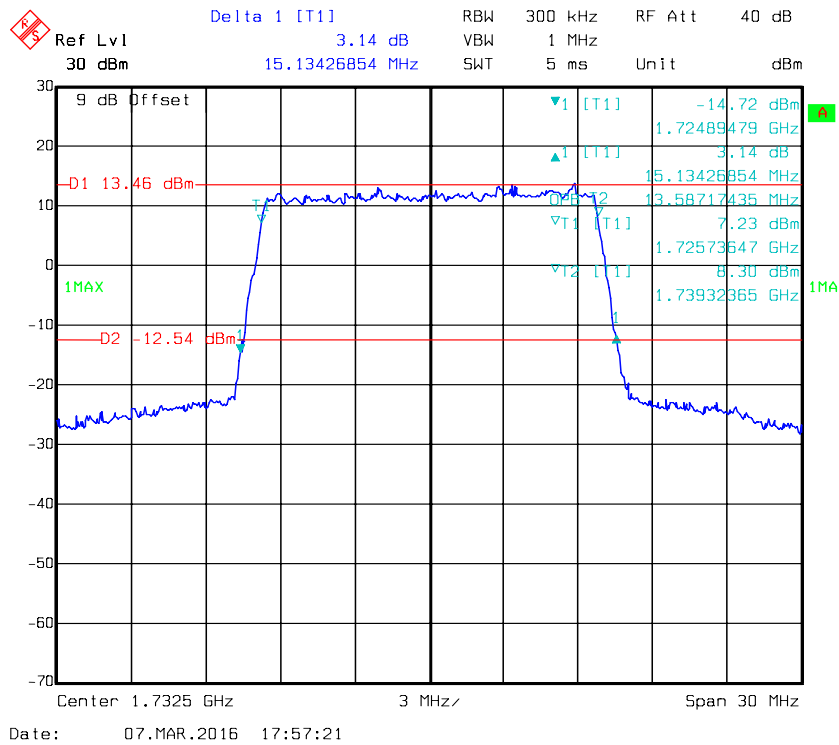
QPSK, Band 4-5M



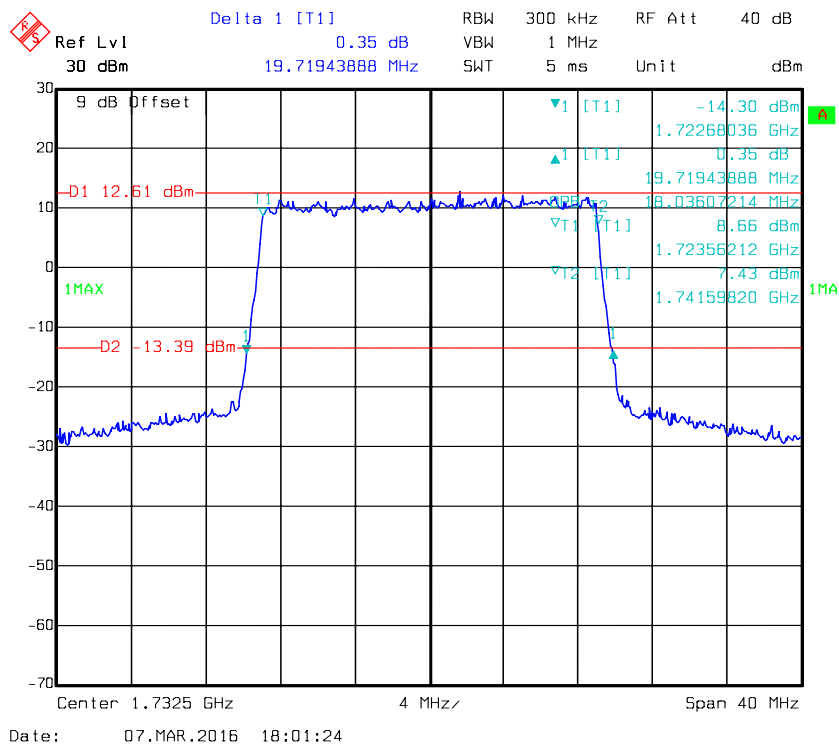
QPSK, Band 4-10M

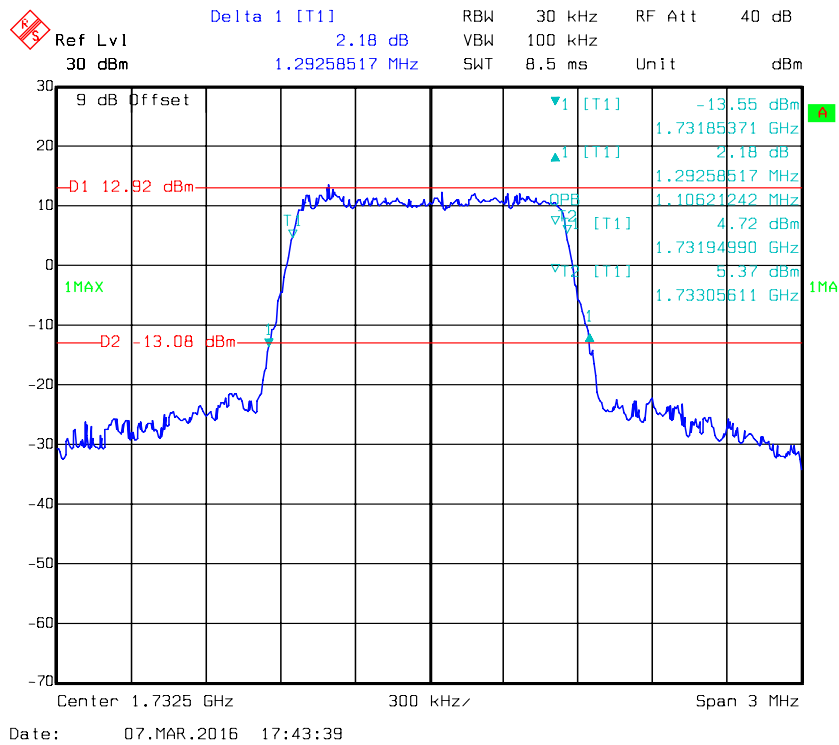
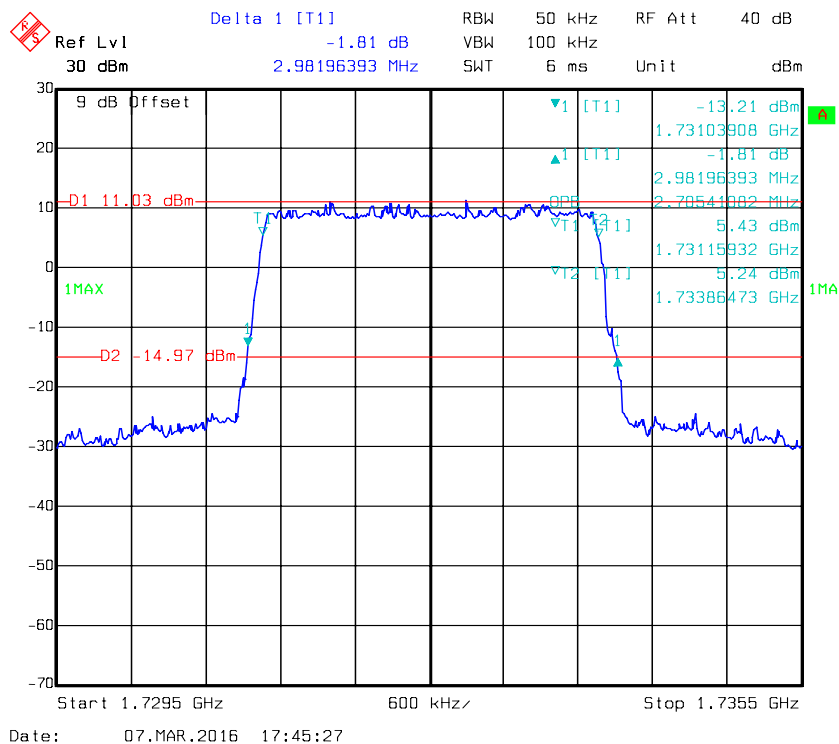


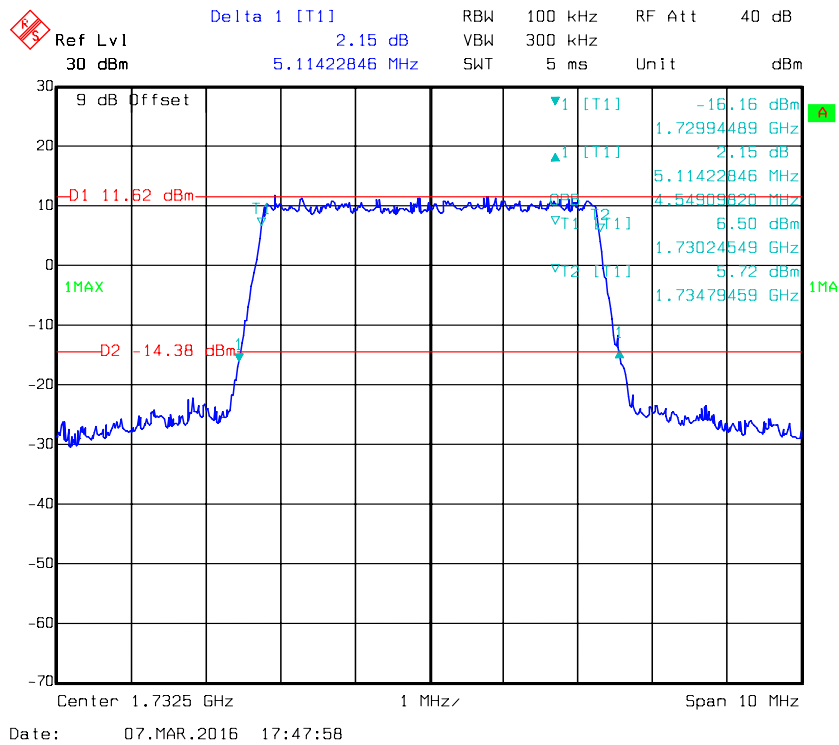
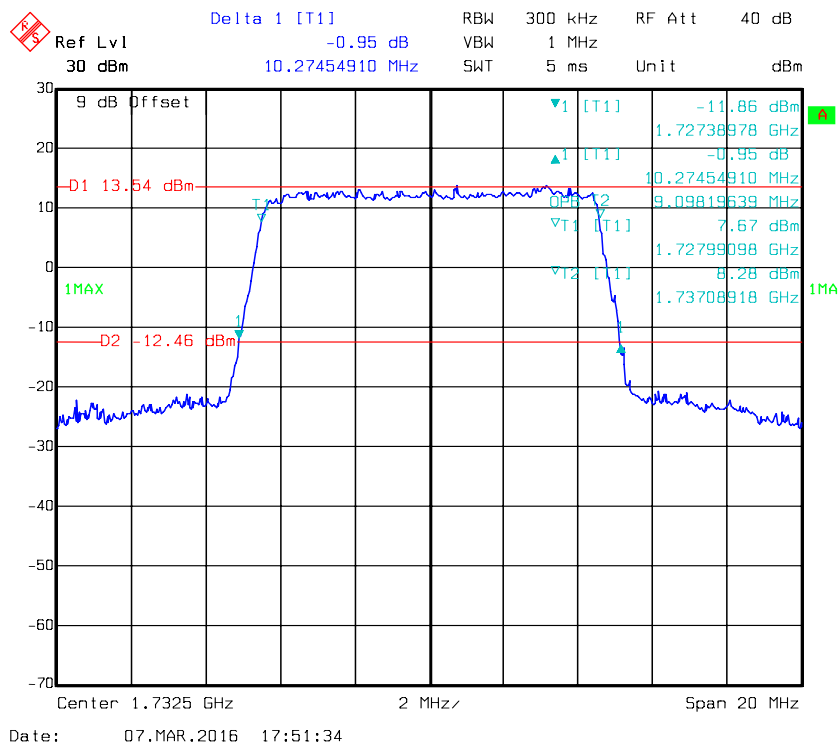
QPSK, Band 4-15M

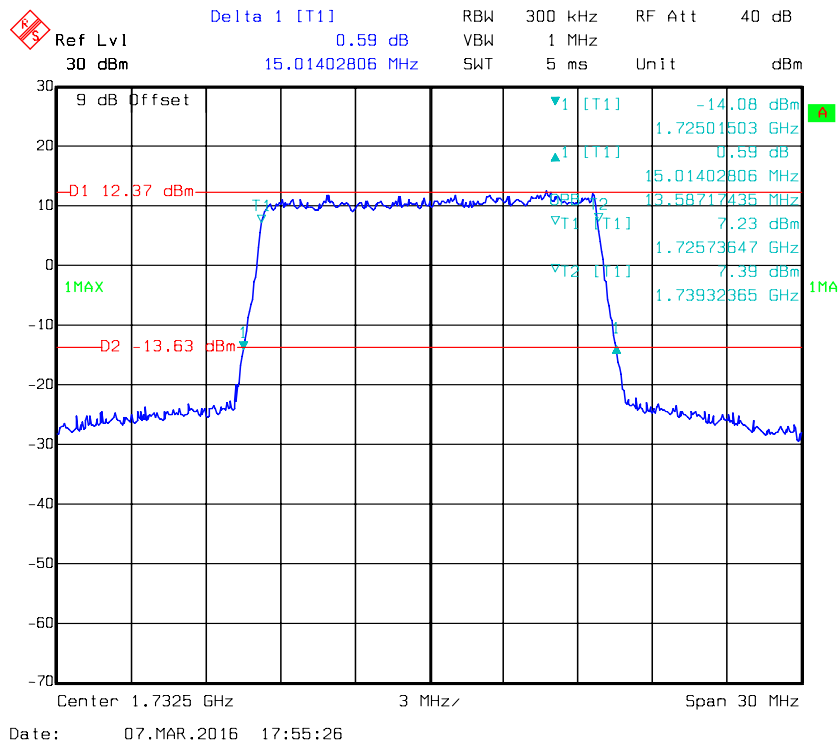
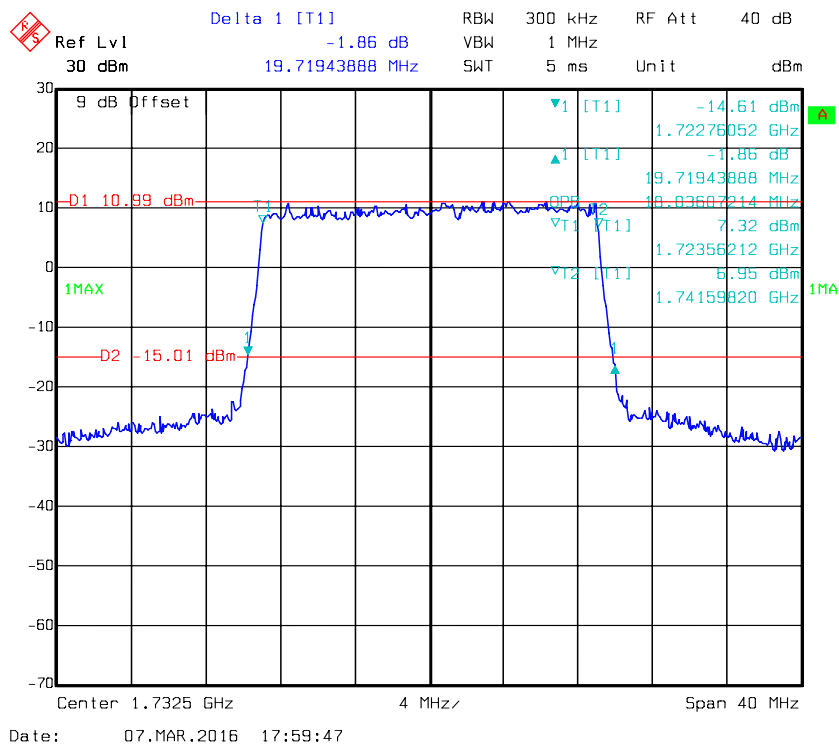


QPSK, Band 4-20M

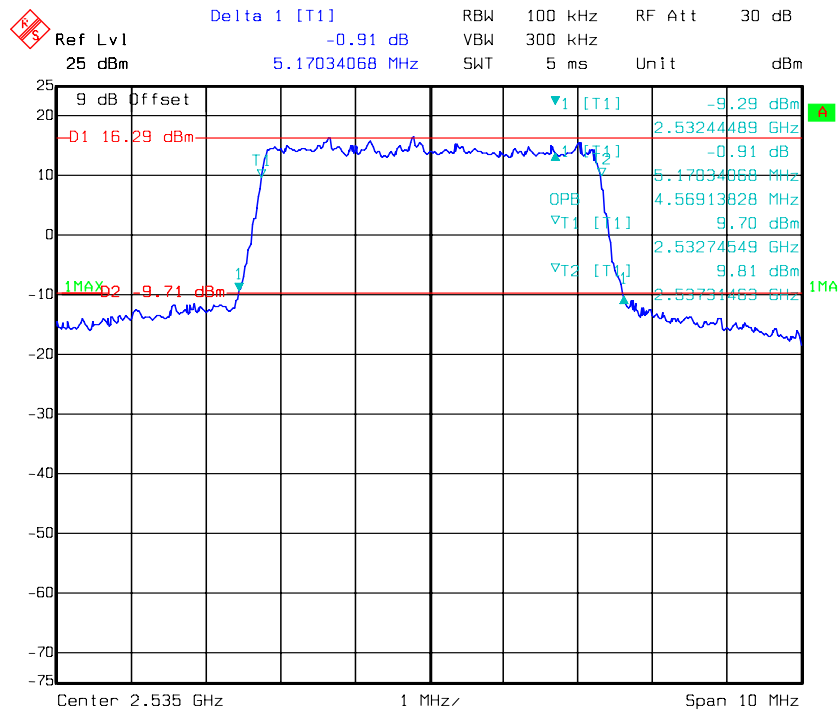


16-QAM, Band 4-1.4M**16-QAM, Band 4-3M**

16-QAM, Band 4-5M**16-QAM, Band 4-10M**

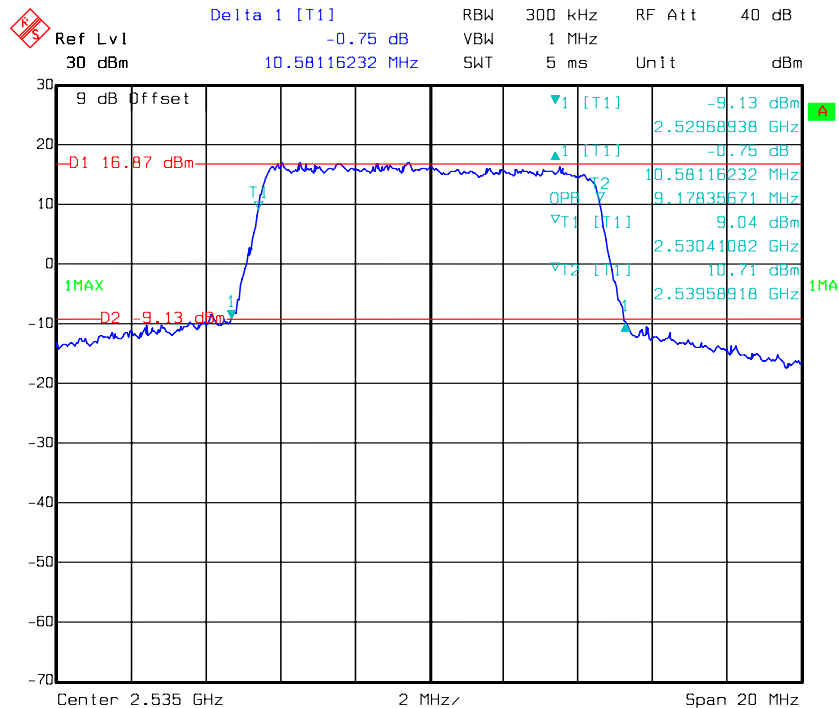
16-QAM, Band 4-15M**16-QAM, Band 4-20M**

QPSK, Band 7-5M



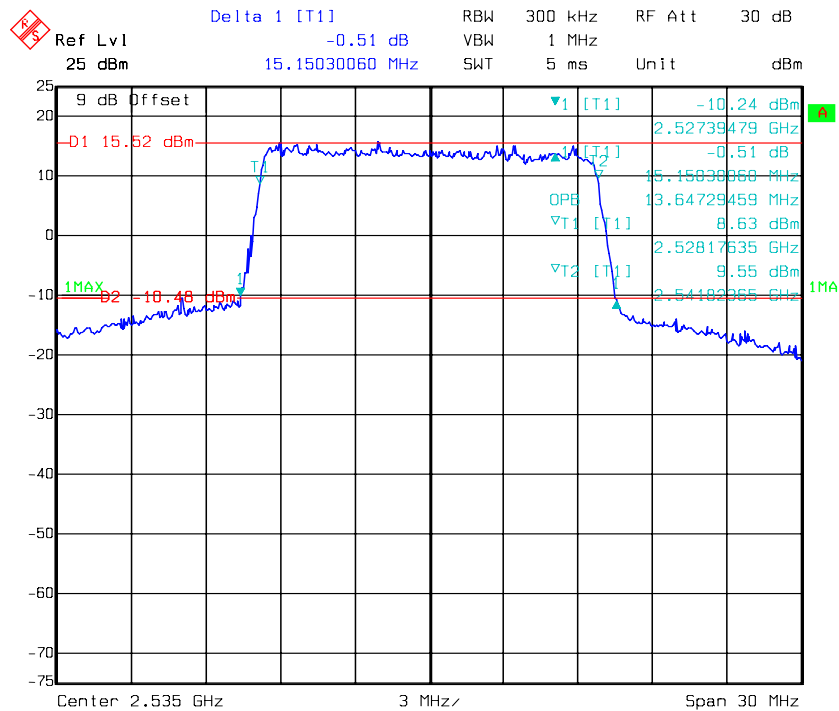
Date: 11.MAR.2016 16:27:44

QPSK, Band 7-10M

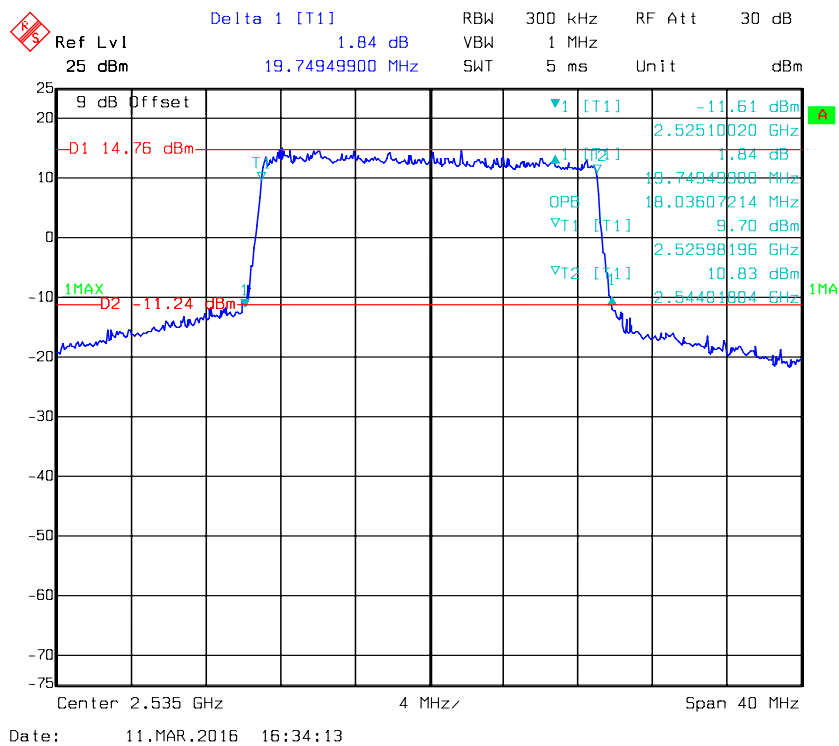


Date: 11.MAR.2016 16:15:56

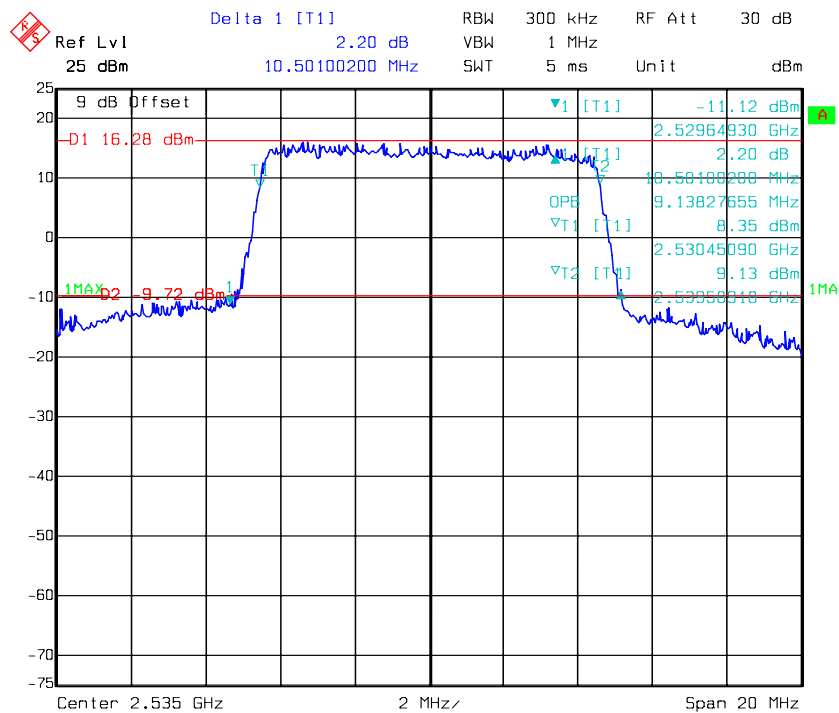
QPSK, Band 7-15M



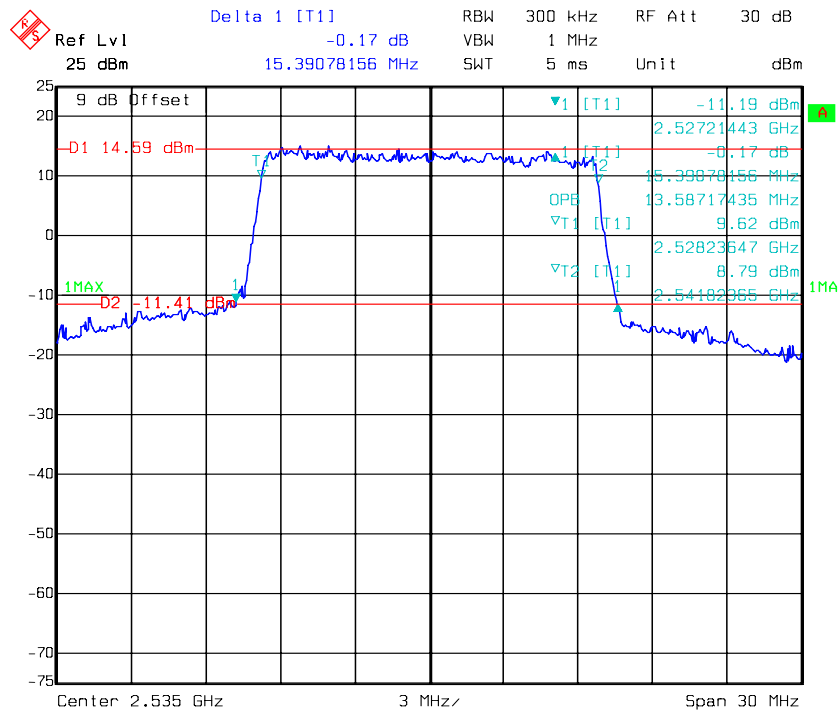
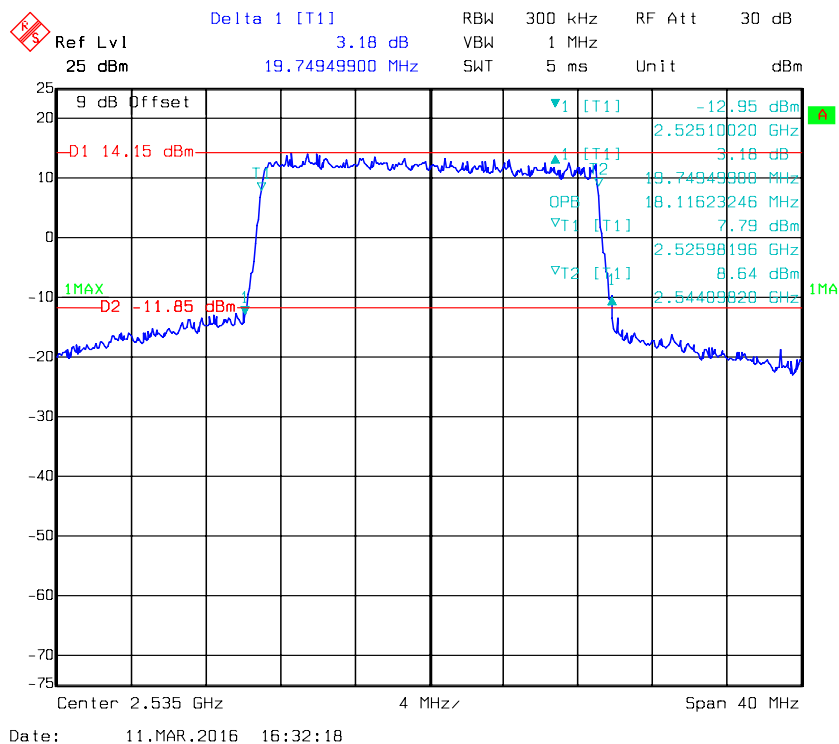
QPSK, Band 7-20M



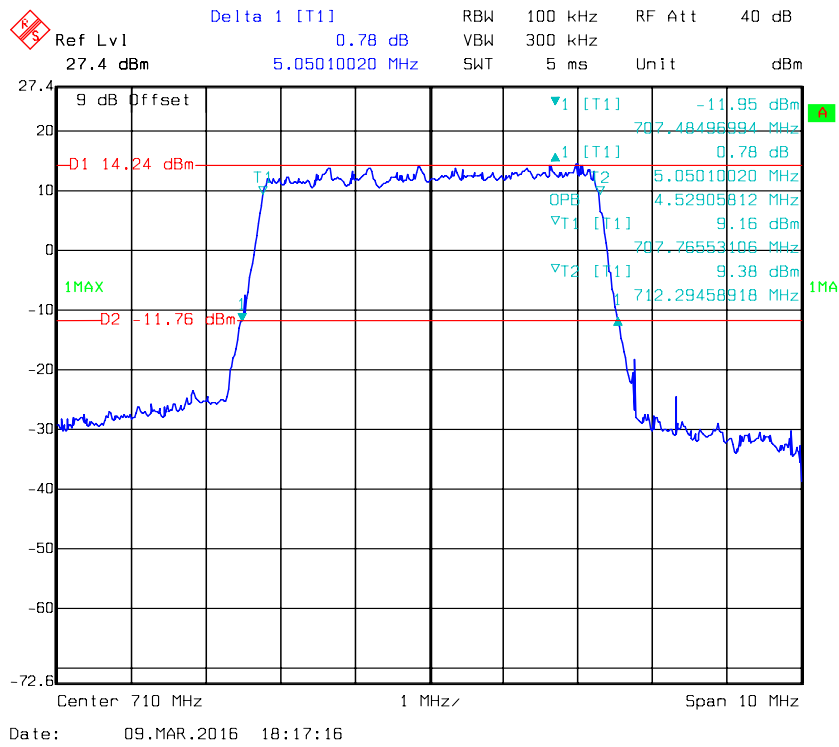
16-QAM, Band 7-10M



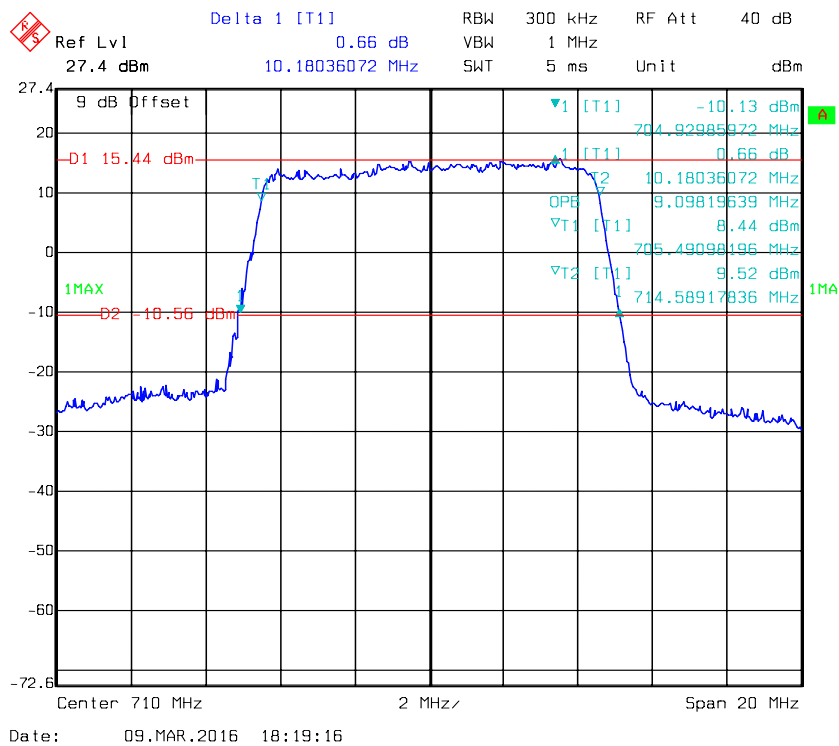
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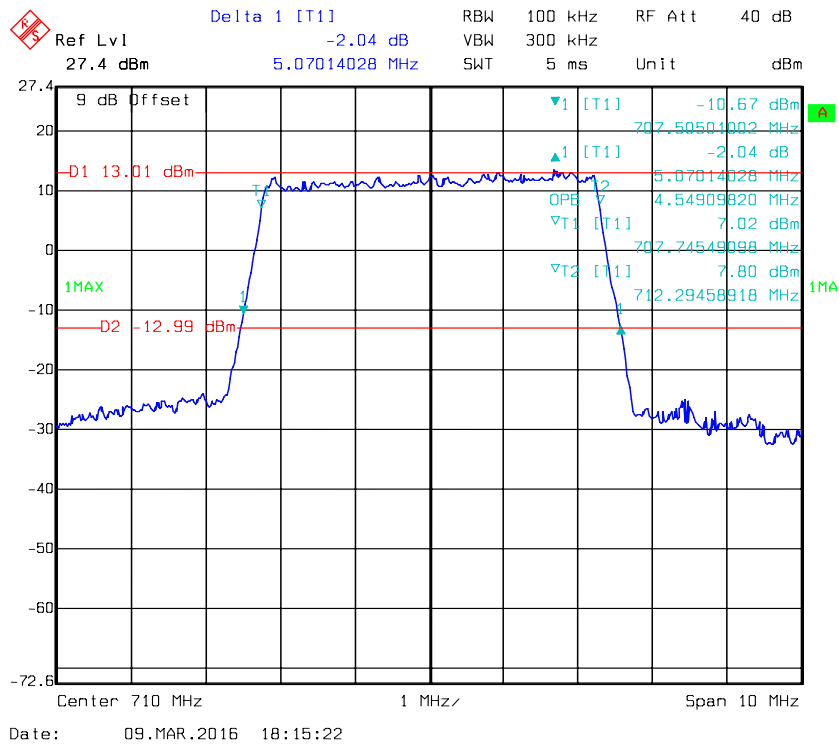
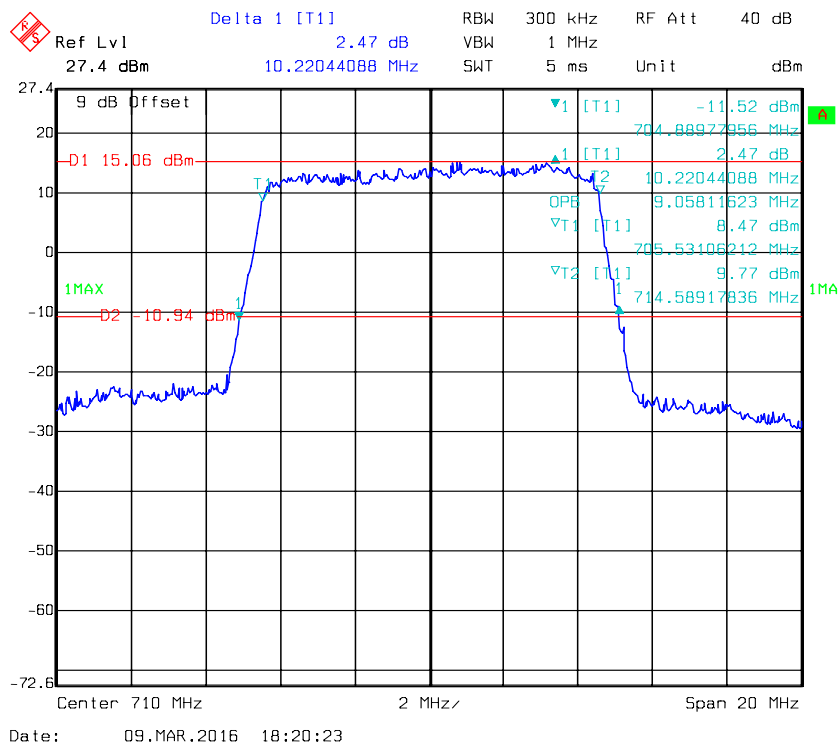
16-QAM, Band 7-15M**16-QAM, Band 7-20M**

QPSK, Band 17-5M



QPSK, Band 17-10M



16-QAM, Band 17-5M**16-QAM, Band 17-10M**

FCC §2.1051, §22.917(a) & §24.238(a) & §27.53- SPURIOUS EMISSIONS AT ANTENNA TERMINALS

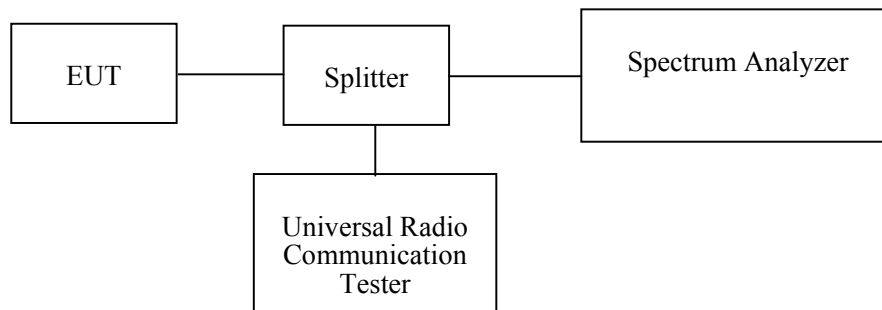
Applicable Standard

FCC §2.1051, §22.917(a), §24.238(a) and §27.53.

The spectrum was to be investigated to the tenth harmonics of the highest fundamental frequency as specified in § 2.1051.

Test Procedure

The RF output of the transceiver was connected to a spectrum analyzer and simulator through appropriate attenuation. Sufficient scans were taken to show any out of band emissions up to 10th harmonic.



Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSP 38	100478	2015-05-09	2016-05-09
R&S	Spectrum Analyzer	FSEM	831259/019	2015-05-09	2016-05-09
R&S	Universal Radio Communication Tester	CMU200	109 038	2015-05-09	2016-05-09
R&S	Wideband Radio Communication Tester	CMW500	106891	2015-11-23	2016-11-23
N/A	Coaxial Cable	0.1m	N/A	2015-05-06	2016-05-06
E-Microwave	DC Blocking	EMDCB-00036	0E01201047	2015-05-06	2016-05-06
E-Microwave	Attenuator(10dB)	EMCA10-5RN	0E01203239	2015-05-08	2016-05-08
Pasternack	RF Coaxial Cable	RF-01	N/A	2015-05-06	2016-05-06
Pasternack	RF Coaxial Cable	RF-02	N/A	2015-05-06	2016-05-06
N/A	Two-way Splitter	ODP-1-6-2S	0E0120142	2015-05-06	2016-05-06

* **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).

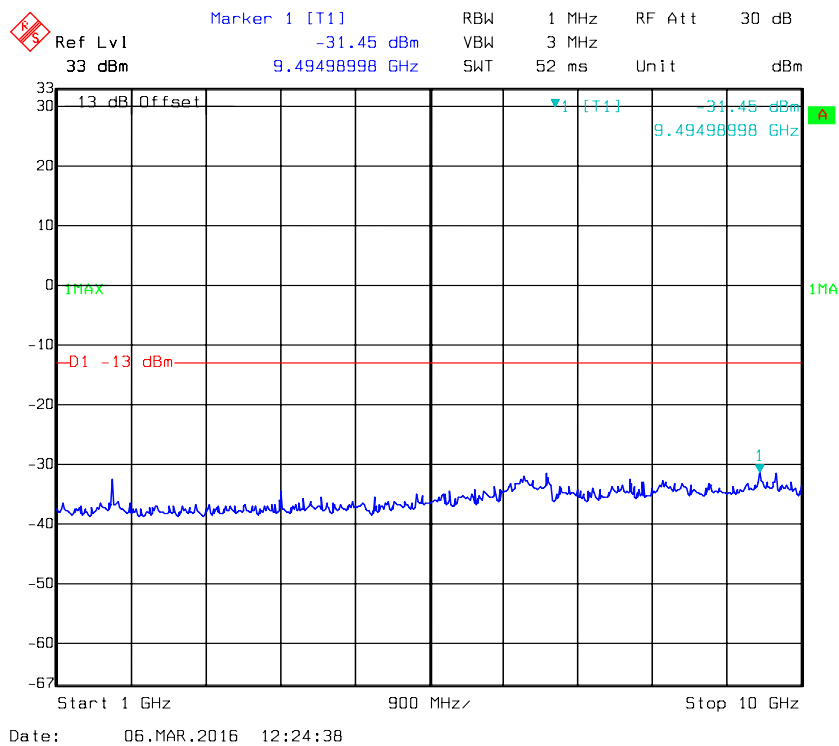
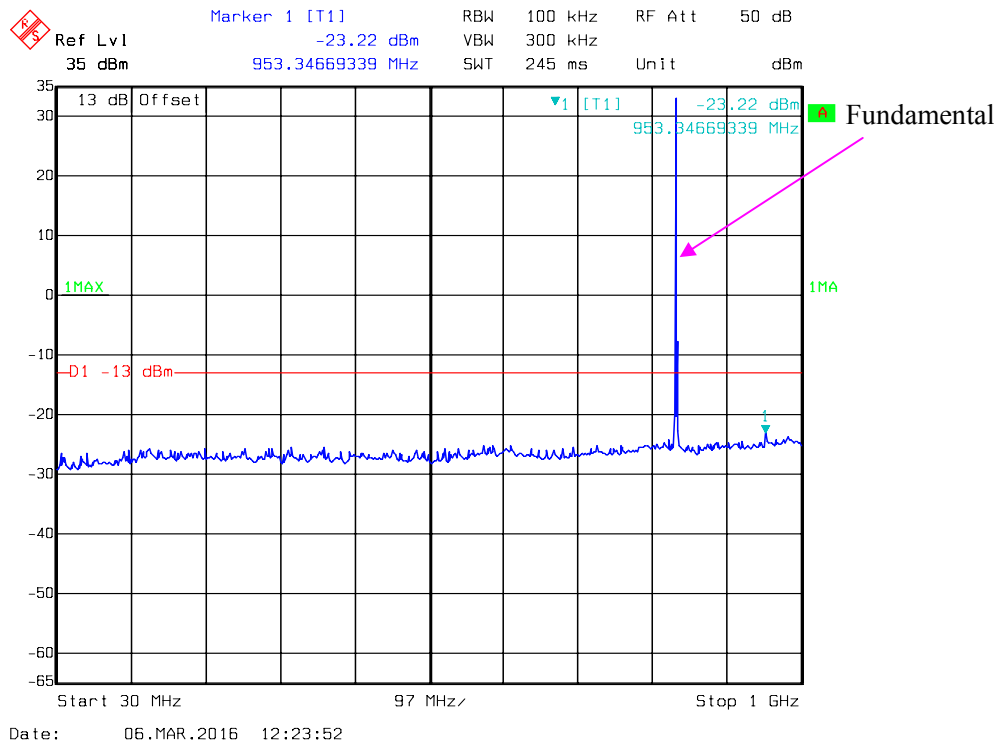
Test Data**Environmental Conditions**

Temperature:	19.1~27.4 °C
Relative Humidity:	41~66 %
ATM Pressure:	100.6~101.8 kPa

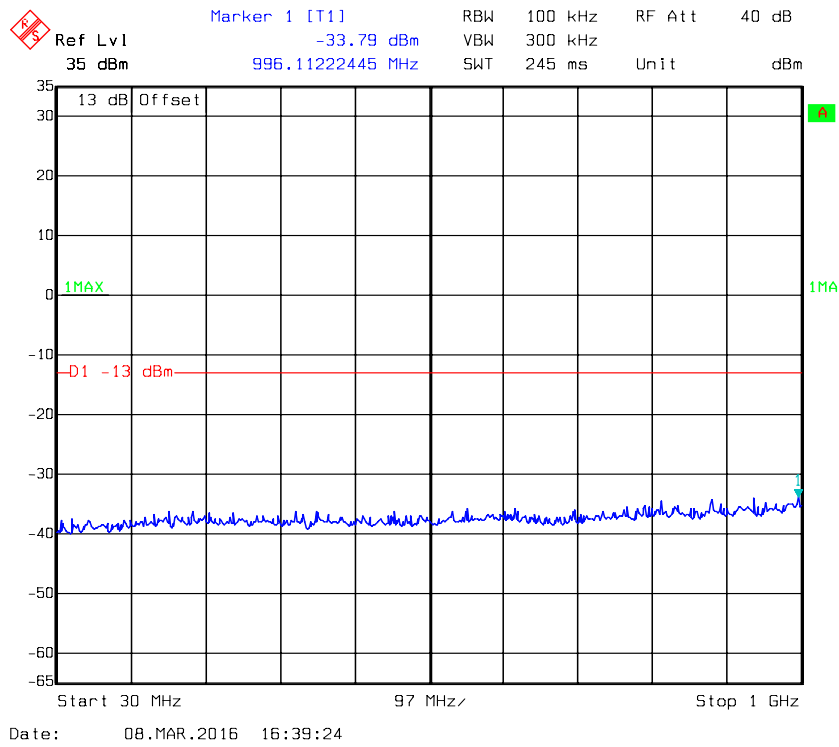
The testing was performed by Dean Liu from 2016-03-06 to 2016-03-11.

Please refer to the following plots.

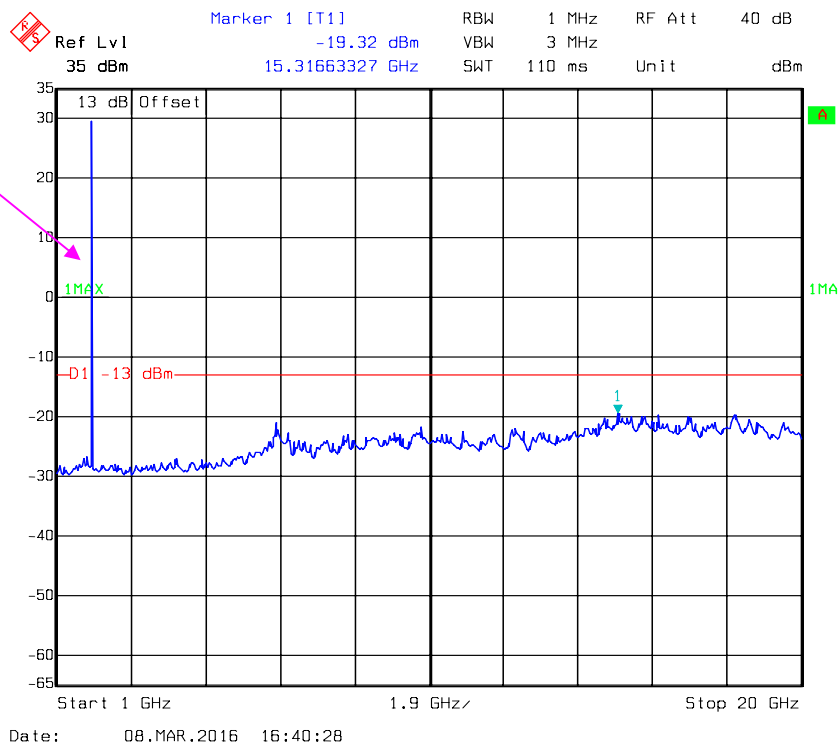
GSM850_Middle Channel



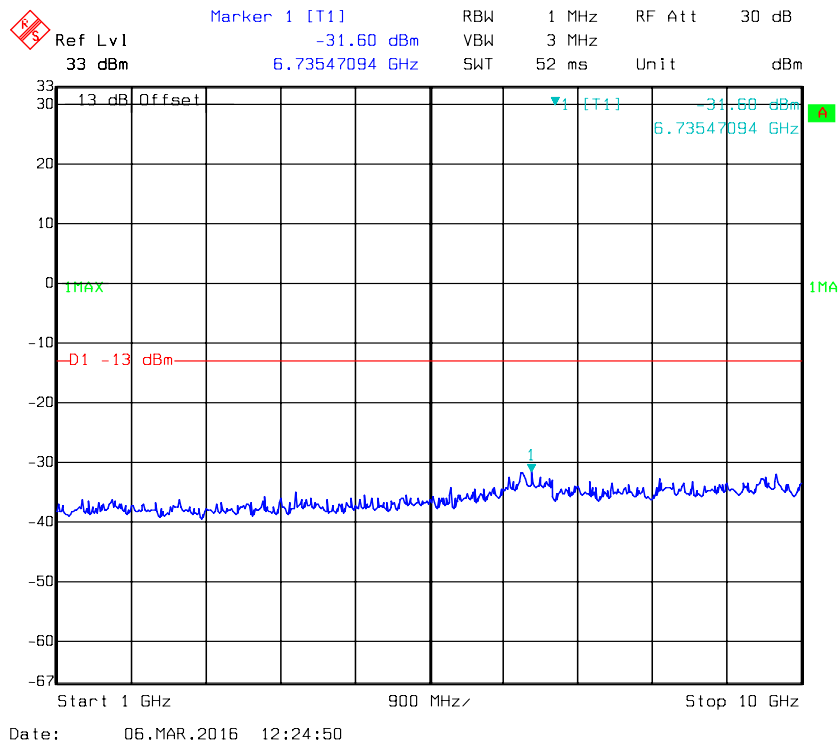
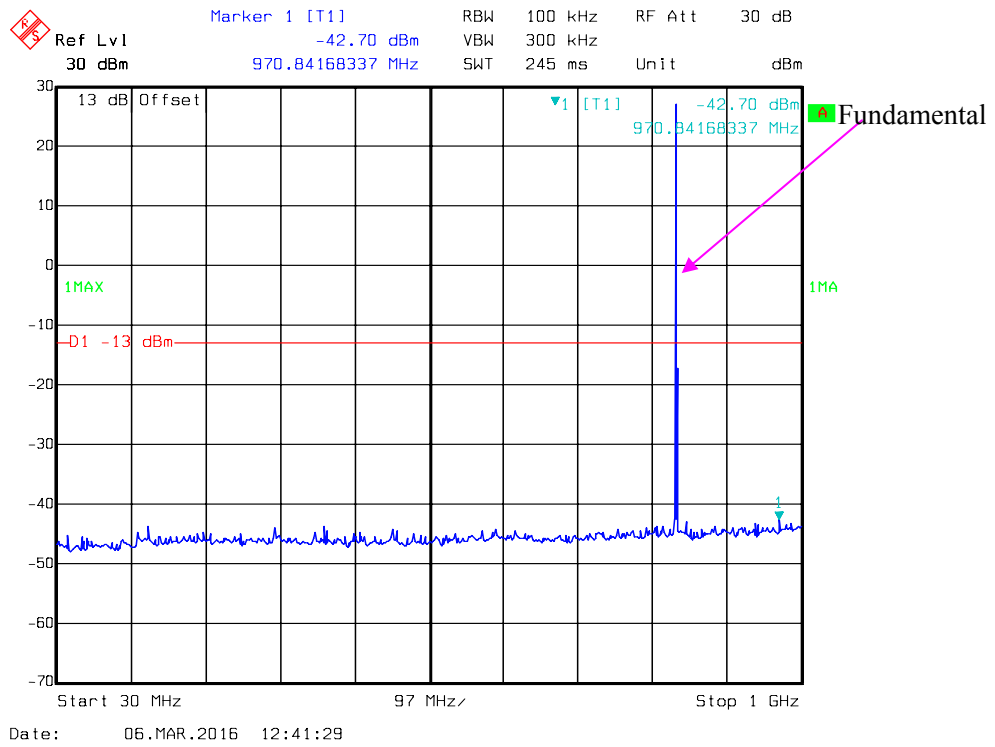
PCS 1900_ Middle Channel



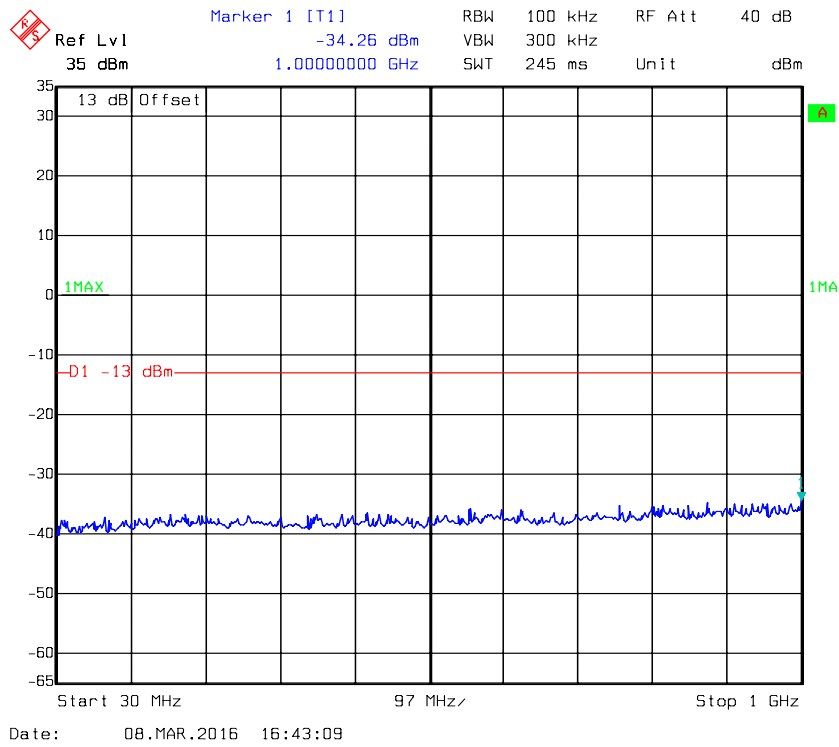
Fundamental



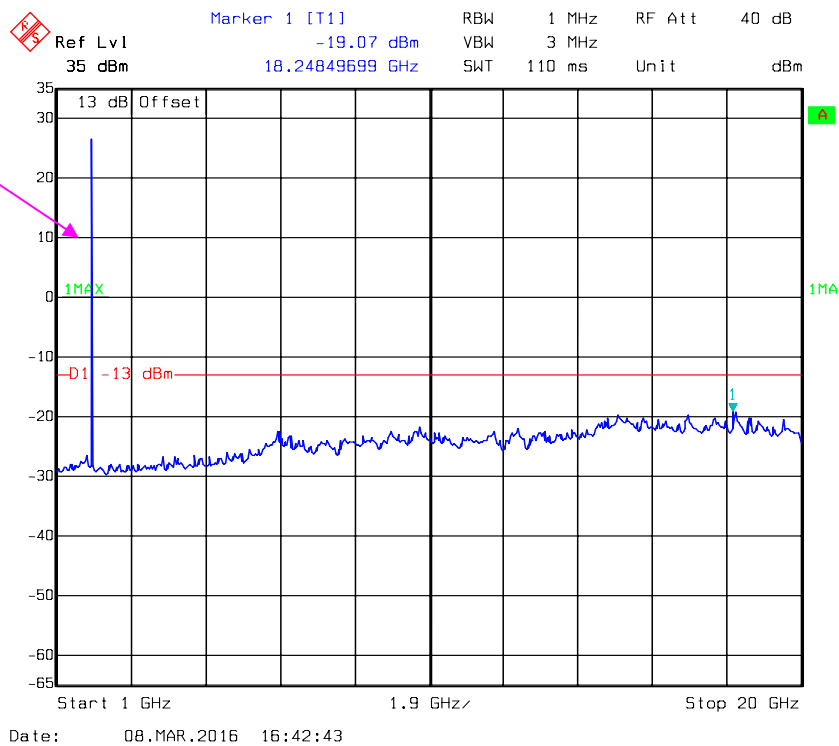
EDGE850_Middle Channel



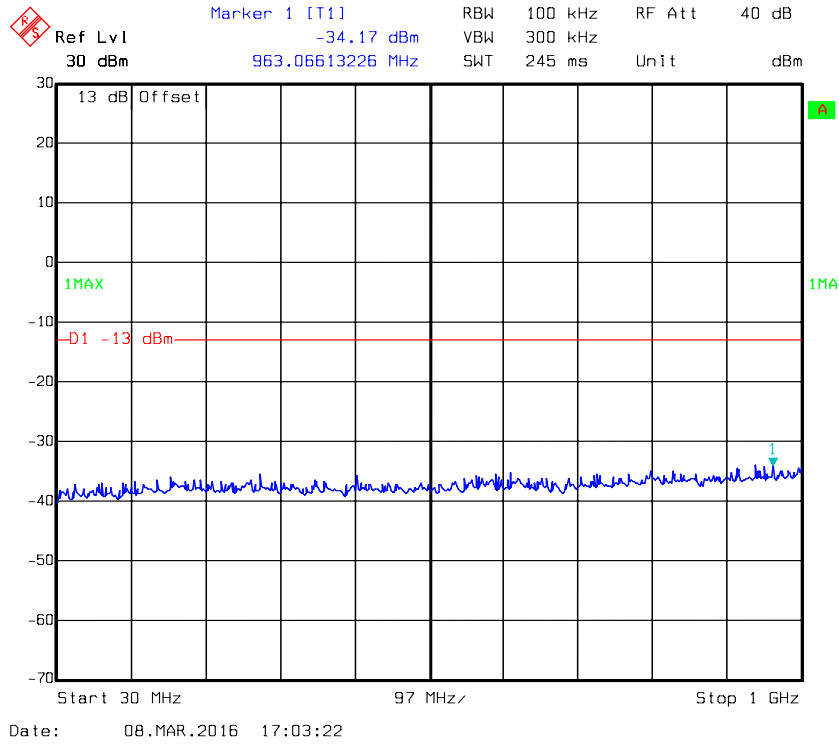
EDGE1900_ Middle Channel



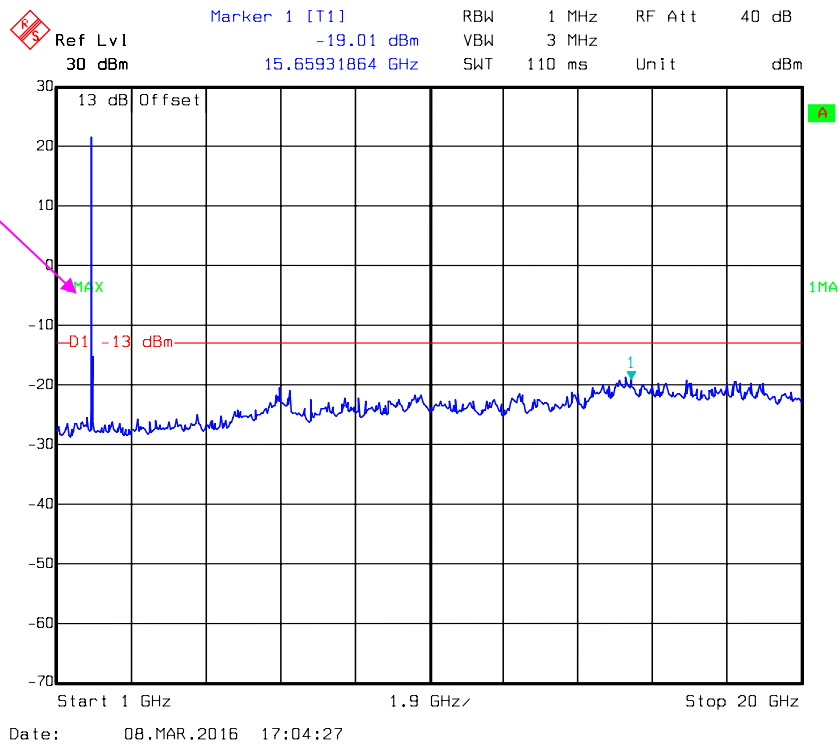
Fundamental



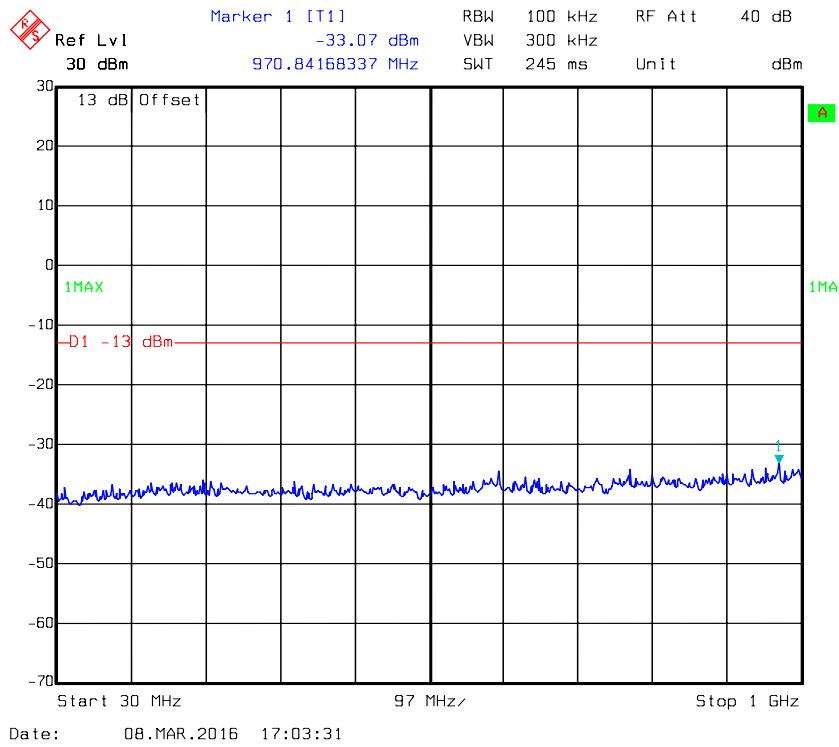
REL99 Band II_ Middle Channel



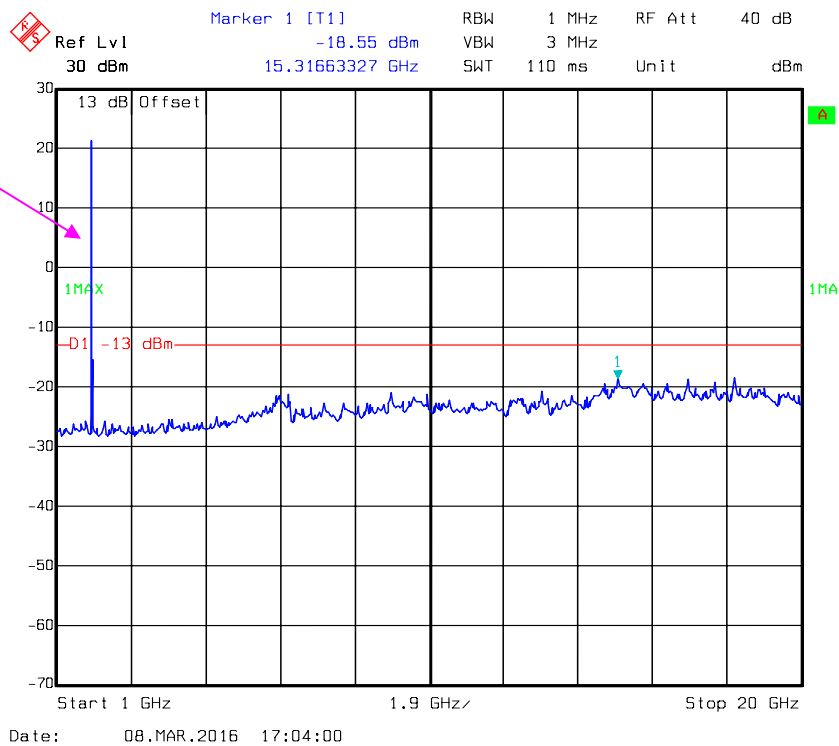
Fundamental



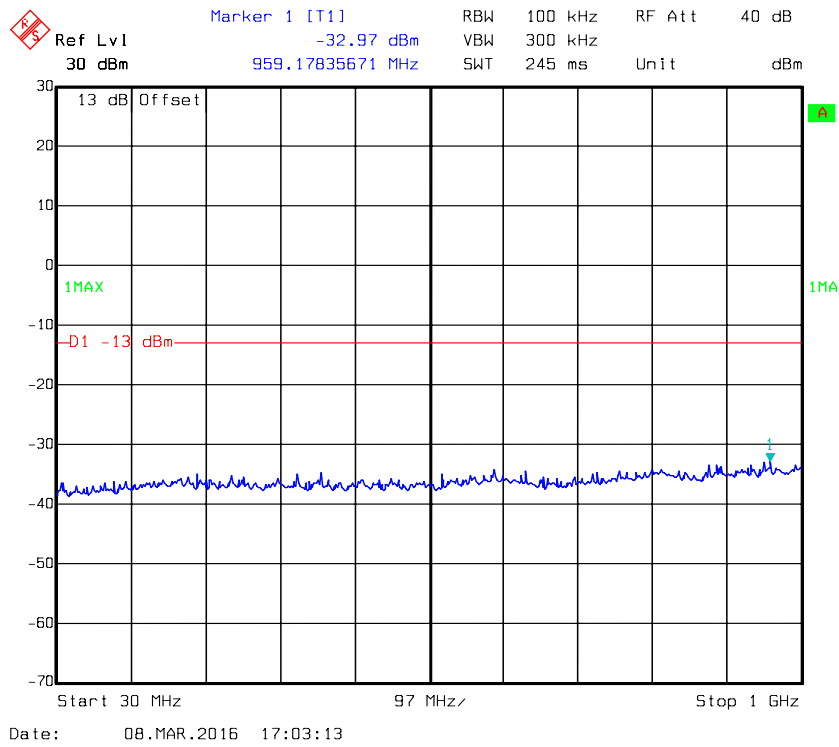
HSDPA Band II _Middle Channel



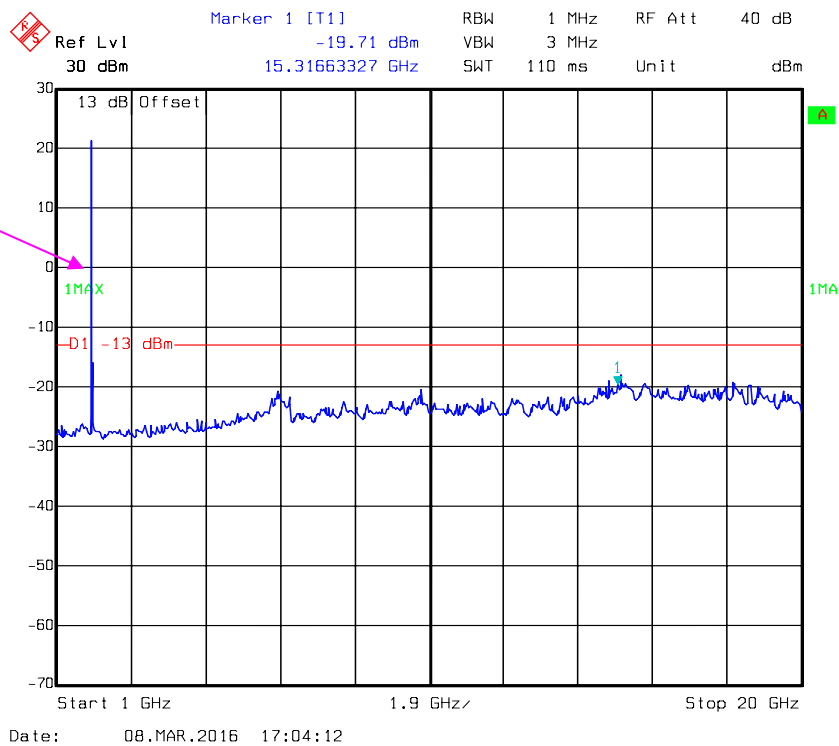
Fundamental



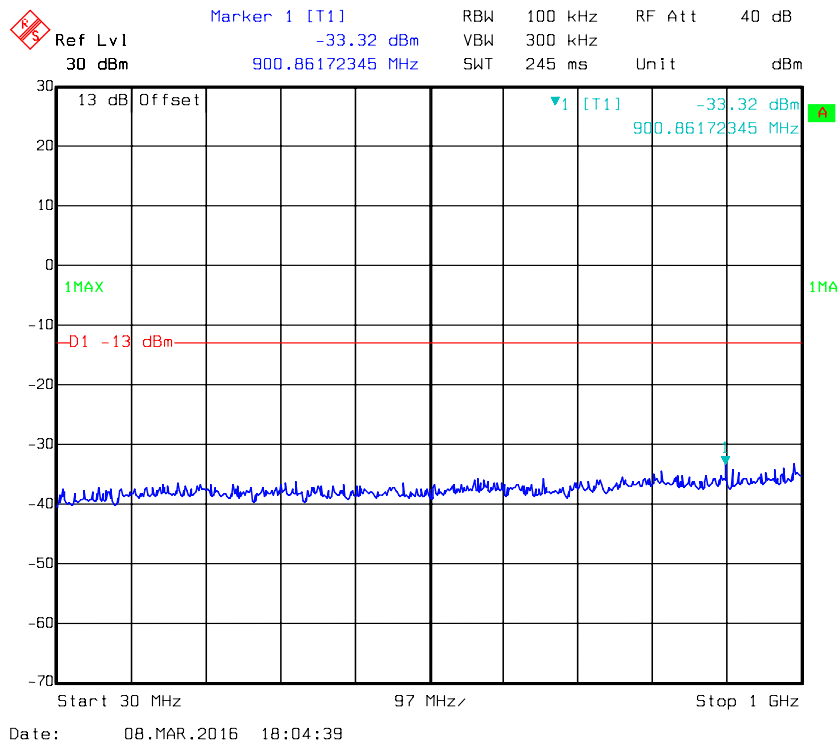
HSUPA Band II _ Middle Channel



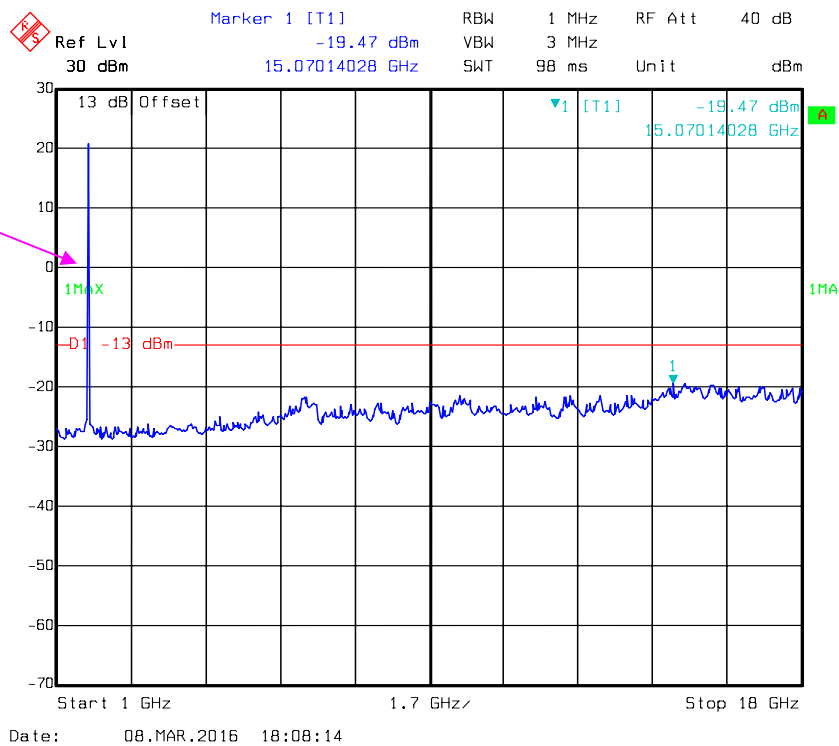
Fundamental



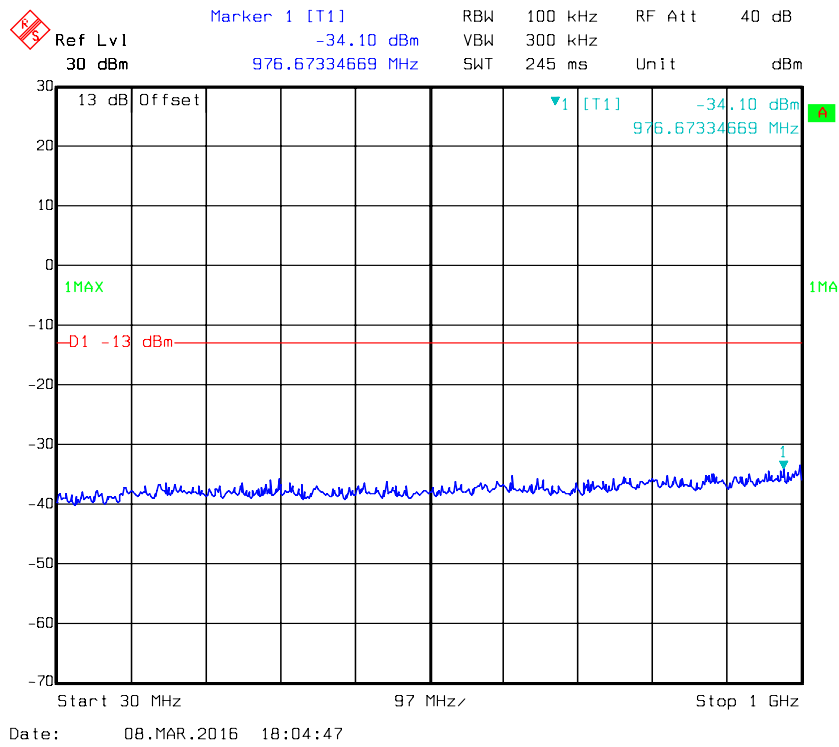
REL99 Band IV_ Middle Channel



Fundamental



HSDPA Band IV _Middle Channel



Fundamental

