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MEASUREMENT AND TEST REPORT

For

Huawei Technologies Co., Ltd

Administration Building, Headquarters of Huawei Technologies Co., Ltd, Bantian,
Longgang District, Shenzhen, 518129, P.R.C

Model: eA380-123
FCC ID: QISEA380-123
IC: 6369A-EA380123

Report Type: Original Report	Product Type: LTE CPE
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Report Number: RDG170511006C	
Report Date: 2017-07-07	
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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The **Huawei Technologies Co.,Ltd**'s product, model number: **eA380-123** (**FCC ID: QISEA380-123, IC: 6369A-EA380123**) (the "EUT") in this report was a **LTE CPE**, which was measured approximately: 25.8 cm (L) x 22 cm (W) x 6.6 cm (H), rated input voltage: DC54V from POE port.

LTE Technical Parameters:

Equipment Type	Fixed CPE
Frequency Range	LTE-FDD Band 7:2500-2570MHz(Tx), 2620-2690MHz(Rx) LTE-TDD Band 40: 2305-2320MHz&2345-2360MHz(Tx/Rx) LTE-TDD Band 41: 2500-2690MHz(Tx/Rx)
Maximum Output Power	LTE Band 7:23 dBm LTE Band 40: 26.5dBm LTE Band 41: 23 dBm
Operation Bandwidth	LTE Band 7: 5MHz/10MHz/15MHz/20MHz/ Intra-band contiguous Carrier Aggregation LTE Band 40: 5MHz/10MHz/15MHz LTE Band 41: 5MHz/10MHz/15MHz/20MHz/ Intra-band contiguous Carrier Aggregation
Maximum Antenna Gain	13 dBi

**All measurement and test data in this report was gathered from final production sample, serial number: 170511006 (assigned by the BA CL, Chengdu). It may have deviation from any other sample. The EUT supplied by the applicant was received on 2017-02-08, and EUT conformed to test requirement.*

Objective

This report is prepared on behalf of **Huawei Technologies Co., Ltd** in accordance with Part 2-Subpart J, part 27 of the Federal Communications Commission's rules. And RSS-Gen Issue 4, November 2014, RSS-199, Issue 3, December 2016, RSS-195, ISSUE 2, April 2014 of the Innovation, Science and Economic Development Canada.

Related Submittal(s)/Grant(s)

FCC Part 15B JBP/15C DTS submissions with FCC ID: QISEA380-123.
RSS-247 DTSs submissions with IC: 6369A-EA380123.

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, Part 27.

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

RSS-Gen Issue 4, November 2014, RSS-199, Issue 3, December 2016, RSS-195, ISSUE 2, April 2014 of the Innovation, Science and Economic Development Canada.

All emissions measurement was performed and Bay Area Compliance Laboratories Corp. (Chengdu).

Test Facility

The test site used by BACL to collect test data is located in the No.5040, Huilongwan Plaza, No.1, Shawan Road, Jinniu District, Chengdu, Sichuan, China.

Test site at BACL has been fully described in reports submitted to the Federal Communication 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 April 24, 2015. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2014.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 560332. 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 device operation on LTE band 7/40/41, test was performed with channels as below table:

Frequency Bands	Modes	Bandwidth (MHz)	Test Frequency (MHz)		
			Low	Middle	High
LTE Band 7	Single Carrier	5	2502.5	2535	2567.5
		10	2505	2535	2565
		15	2507.5	2535	2562.5
		20	2510	2535	2560
	Carrier Aggregation	5+20	2503.3+2515	2525.8+2537.5	2548.3+2560
		20+5	2510.0+2521.7	2532.5+2544.2	2555.0+2566.7
		10+20	2505.5+2519.9	2525.6+2540	2545.6+2560
		20+10	2510.0+2524.4	2530.1+2544.5	2550.1+2564.5
		15+15	2507.5+2522.5	2527.5+2542.5	2547.5+2562.5
		15+20	2507.8+2524.9	2525.3+2542.4	2542.9+2560.0
LTE Band 40 2305-2320MHz	Single Carrier	5	2307.5	2312.5	2317.5
		10	2310	2312.5	2315
		15	/	2312.5	/
LTE Band 40 2345-2360MHz	Single Carrier	5	2347.5	2352.5	2357.5
		10	2350	2352.5	2355
		15	/	2352.5	/
LTE Band 41	Single Carrier	5	2502.5	2593	2687.5
		10	2505	2593	2685
		15	2507.5	2593	2682.5
		20	2510	2593	2680
	Carrier Aggregation	5+20	2503.3+2514	2583.8+2595.5	2668.3+2680
		20+5	2514.0+2521.7	2590.5+2602.2	2675.0+2686.7
		10+20	2505.5+2519.9	2583.6+2598	2665.6+2680
		20+10	2510.0+2524.4	2588.1+2602.5	2670.1+2684.5
		15+15	2507.5+2522.5	2585.5+2600.5	2667.5+2682.5
		15+20	2507.8+2524.9	2583.3+2600.4	2662.9+2680.0
		20+15	2510.0+2527.1	2585.6+2602.7	2665.1+2682.2
		20+20	2510.0+2529.8	2585.1+2604.9	2660.2+2680.0

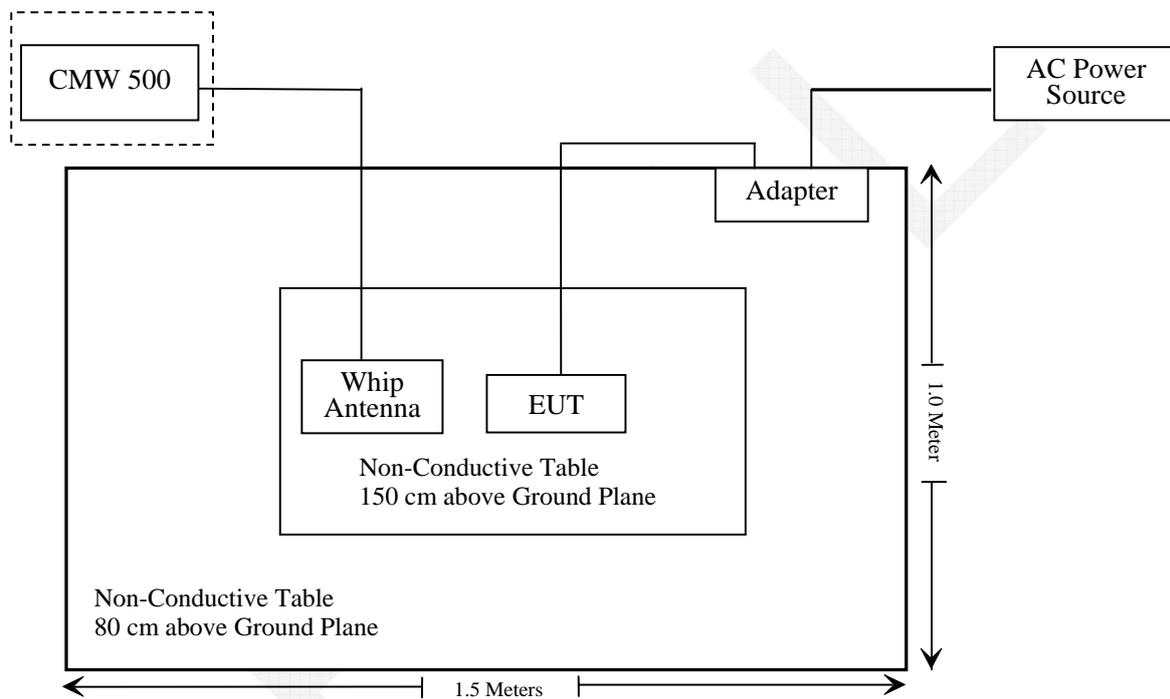
Equipment Modifications

No modifications were made to the EUT.

Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
R&S	Wideband Radio Communication Tester	CMW500	106891
N/A	ANTENNA	N/A	N/A
Huawei	POE	POE35-54V	N/A

Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§1.1310, §2.1091 RSS-102§4	Maximum Permissible Exposure	Compliance
§2.1046; §27.50 RSS-195 § 5.5, RSS-199 § 4.4	RF Output Power	Compliance
§ 2.1047 RSS-195 § 5.3 RSS-199 § 4.1	Modulation Type	Compliance
§ 2.1049; §27.53 RSS-199§4.2 RSS-Gen§6.6	Occupied Bandwidth	Compliance
§ 2.1051; §27.53 RSS-195 § 5.6 RSS-199 § 4.5	Spurious Emissions at Antenna Terminal	Compliance
§ 2.1053; §27.53 RSS-195 § 5.6 RSS-199 § 4.5	Spurious Radiation Emissions	Compliance
§27.53 RSS-195 § 5.6 RSS-199 § 4.5	Band Edge	Compliance
§ 2.1055; §27.54	Frequency stability vs. temperature Frequency stability vs. voltage	Compliance

FCC §1.1310, §2.1091 & RSS-102 § 4 - MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minutes)
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f ²)	30
30–300	27.5	0.073	0.2	30
300–1500	/	/	f/1500	30
1500–100,000	/	/	1.0	30

f = frequency in MHz; * = Plane-wave equivalent power density;

According to §1.1310 and §2.1091 RF exposure is calculated.

According to RSS-102 § 4Table 4, RF Field Strength Limits for Devices Used by the General Public (Uncontrolled Environment)

Table 4: RF Field Strength Limits for Devices Used by the General Public (Uncontrolled Environment)

Frequency Range (MHz)	Electric Field (V/m rms)	Magnetic Field (A/m rms)	Power Density (W/m ²)	Reference Period (minutes)
0.003-10 ²¹	83	90	-	Instantaneous*
0.1-10	-	0.73/ f	-	6**
1.1-10	87/ f ^{0.5}	-	-	6**
10-20	27.46	0.0728	2	6
20-48	58.07/ f ^{0.25}	0.1540/ f ^{0.25}	8.944/ f ^{0.5}	6
48-300	22.06	0.05852	1.291	6
300-6000	3.142 f ^{0.3417}	0.008335 f ^{0.3417}	0.02619 f ^{0.6834}	6
6000-15000	61.4	0.163	10	6
15000-150000	61.4	0.163	10	616000/ f ^{1.2}
150000-300000	0.158 f ^{0.5}	4.21 x 10 ⁻⁴ f ^{0.5}	6.67 x 10 ⁻⁵ f	616000/ f ^{1.2}

Note: f is frequency in MHz.
 *Based on nerve stimulation (NS).
 ** Based on specific absorption rate (SAR).

Calculation Formula:

Prediction of power density at the distance of the applicable MPE limit:
 $S = PG/4\pi R^2$ = power density (in appropriate units, e.g. mW/cm²);

P = power input to the antenna (in appropriate units, e.g., mW);
 G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;
 R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

For simultaneously transmit system, the calculated power density should comply with:

$$\sum_i \frac{S_i}{S_{Limit,i}} \leq 1$$

Calculated Data:

Mode	Frequency (MHz)	Antenna Gain		Conducted Power including Tolerance		Evaluation Distance (cm)	Power Density		MPE Limit	
		(dBi)	(numeric)	(dBm)	(mW)		(mW/cm ²)	(W/m ²)	FCC (mW/cm ²)	RSS-102 (W/m ²)
WLAN 2.4GHz	2412-2462	2	1.58	28	630.96	40.00	0.0498	0.498	1.0	5.37
LTE Band 7	2500-2570	13	19.95	23	199.53	40.00	0.20	2.0	1.0	5.50
LTE Band 40	2305-2320	13	19.95	23	199.53	40.00	0.20	2.0	1.0	5.20
	2345-2360	13	19.95	23	199.53	40.00	0.20	2.0	1.0	5.26
LTE Band 41	2500-2690	13	19.95	23	199.53	40.00	0.20	2.0	1.0	5.49

The 2.4GHz WLAN and LTE can transmit simultaneously:

For FCC:

$$\sum_i \frac{S_i}{S_{Limit,i}}$$

$$= S_{WLAN}/S_{limit-WLAN} + S_{LTE}/S_{limit-LTE}$$

$$= 0.0498/1 + 0.2/1$$

$$= 0.24928$$

$$< 1.0$$

For RSS-102:

$$\sum_i \frac{S_i}{S_{Limit,i}}$$

$$= S_{WLAN}/S_{limit-WLAN} + S_{LTE}/S_{limit-LTE}$$

$$= 0.498/5.37 + 2.0/5.49$$

$$= 0.457$$

$$< 1.0$$

Result: Compliance, The device meets MPE requirement for Devices Used by the General Public (Uncontrolled Environment) at distance ≥40 cm.

FCC §2.1047(d), RSS-195 § 5.3, RSS-199 § 4.1 - MODULATION TYPE

Applicable Standard

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

According to RSS-195 § 5.3,

The modulation used shall be digital.

According to RSS-199 § 4.1

Equipment certified under this standard shall employ digital modulation.

Result

Result: Compliant, the device employs digital modulation.

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FCC § 2.1046 & § 27.50(a)(h), RSS-195 § 5.5, RSS-199 § 4.4- RF OUTPUT POWER

Applicable Standard

According to FCC §2.1046 and §27.50

(a) The following power limits and related requirements apply to stations transmitting in the 2305-2320 MHz band or the 2345-2360 MHz band.

(2) Fixed customer premises equipment stations. For fixed customer premises equipment (CPE) stations transmitting in the 2305-2320 MHz band or in the 2345-2360 MHz band, the peak EIRP must not exceed 20 watts within any 5 megahertz of authorized bandwidth. Fixed CPE stations transmitting in the 2305-2320 MHz band or in the 2345-2360 MHz band must employ automatic transmit power control when operating so the stations operate with the minimum power necessary for successful communications. The use of outdoor antennas for CPE stations or outdoor CPE station installations operating with 2 watts per 5 megahertz or less average EIRP using the stepped emissions mask prescribed in §27.53(a)(3) is prohibited except if professionally installed in locations removed by 20 meters from roadways or in locations where it can be shown that the ground power level of -44 dBm in the A or B blocks or -55 dBm in the C or D blocks will not be exceeded at the nearest road location. The use of outdoor antennas for fixed CPE stations operating with 2 watts per 5 megahertz or less average EIRP and the emissions mask prescribed in §27.53(a)(1)(i) through (iii) is permitted in all locations. For fixed WCS CPE using TDD technology, the duty cycle must not exceed 38 percent;

(h) The following power limits shall apply in the BRS and EBS:

(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.

According to RSS-195 §5.5

The equivalent isotropically radiated power (e.i.r.p.) of base and fixed station equipment shall comply with the e.i.r.p. limit in SRSP-516.

The e.i.r.p. of fixed subscriber equipment shall not exceed 20 W/5 MHz.

The e.i.r.p. of mobile or portable equipment transmitting in the band 2305-2315 MHz or the band 2350-2360 MHz, employing 3GPP LTE (Third Generation Partnership Project Long Term Evolution) standards, shall not exceed 250 mW within any 5 MHz bandwidth. For other technologies, the e.i.r.p. shall not exceed 50 mW within any 1 MHz bandwidth.

According to RSS-199 §4.4

The transmitter output power shall be measured in terms of average value.

For base station equipment, refer to SRSP-517 for the maximum permissible e.i.r.p.

For mobile subscriber equipment, the e.i.r.p. shall not exceed 2 W. For fixed subscriber equipment, the transmitter output power shall not exceed 2 W and the e.i.r.p. shall be limited to 40 W.

In addition, the peak-to-average power ratio (PAPR) of the transmitter shall not exceed 13 dB for more than 0.1% of the time and shall use a signal corresponding to the highest PAPR during periods of continuous transmission.

For equipment with multiple antennas, the transmitter output power and e.i.r.p. shall be measured according to ANSI C63.26-2015.

Test Procedure

LTE (FDD):

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
16 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.

LTE(TDD):

Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

Special subframe configuration	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	$6592 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$	$7680 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$
1	$19760 \cdot T_s$			$20480 \cdot T_s$		
2	$21952 \cdot T_s$			$23040 \cdot T_s$		
3	$24144 \cdot T_s$			$25600 \cdot T_s$		
4	$26336 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$7680 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$
5	$6592 \cdot T_s$			$20480 \cdot T_s$		
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21952 \cdot T_s$			$12800 \cdot T_s$		
8	$24144 \cdot T_s$			-		-
9	$13168 \cdot T_s$			-		-

Table 4.2-2: Uplink-downlink configurations.

Uplink-downlink configuration	Downlink-to-Uplink Switch-point periodicity	Subframe number									
		0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	U	U	U	D	S	U	U	U
1	5 ms	D	S	U	U	D	D	S	U	U	D
2	5 ms	D	S	U	D	D	D	S	U	D	D
3	10 ms	D	S	U	U	U	D	D	D	D	D
4	10 ms	D	S	U	U	D	D	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D	D	D
6	5 ms	D	S	U	U	U	D	S	U	U	D

Calculated Duty Cycle

Uplink-Downlink Configuration	Downlink-to-Uplink Switch-point Periodicity	Subframe Number										Calculated Duty Cycle (%)
		0	1	2	3	4	5	6	7	8	9	
0	5 ms	D	S	U	U	U	D	S	U	U	U	63.33
1	5 ms	D	S	U	U	D	D	S	U	U	D	43.33
2	5 ms	D	S	U	D	D	D	S	U	D	D	23.33
3	10 ms	D	S	U	U	U	D	D	D	D	D	31.67
4	10 ms	D	S	U	U	D	D	D	D	D	D	21.67
5	10 ms	D	S	U	D	D	D	D	D	D	D	11.67
6	5 ms	D	S	U	U	U	D	S	U	U	D	53.33

Calculated Duty Cycle = Extended cyclic prefix in uplink x (T_s) x # of S + # of U

Example for Calculated Duty Cycle for Uplink-Downlink Configuration 0:
 Calculated Duty Cycle = 5120 x [1/(15000 x 2048)] x 2 + 6 ms = 63.33%
 where
 T_s = 1/(15000 x 2048) seconds

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
Unknown	RF Cable	Unknown	C-2	Each Time	/
R&S	Wideband Radio Communication Tester	CMW500	106891	2016-11-23	2017-11-23

* **Statement of Traceability:** BACL(Chengdu) attests that all of the calibrations on the equipment items listed above were traceable to NIM or to another internationally recognized National Metrology Institute (NMI), and were compliant with the NIST HB 150-2016 Normative Annex B "Implementation of traceability policy in accredited laboratories".

Test Data

Environmental Conditions

Temperature:	25~28.2 °C
Relative Humidity:	43.9~58 %
ATM Pressure:	99~100.1 kPa

The testing was performed by Lorin Bian from 2017-06-03 to 2017-07-05.

Band 7, Single Carrier:

Channel Bandwidth	Modulation	Resource Block & RB offset	Conducted Output Power (dBm)				EIRP(For ISEDC) (dBm)			
			2502.5 MHz	2535 MHz	2567.5 MHz	Limits	2502.5 MHz	2535 MHz	2567.5 MHz	Limits
5 MHz	QPSK	1#0	20.82	20.63	20.57	33.00	33.82	33.63	33.57	46
		1#12	20.57	20.75	20.81	33.00	33.57	33.75	33.81	46
		1#24	20.71	20.64	19.98	33.00	33.71	33.64	32.98	46
		12#0	20.76	20.33	20.15	33.00	33.76	33.33	33.15	46
		12#6	20.98	20.79	19.87	33.00	33.98	33.79	32.87	46
		12#11	21.06	20.99	20.32	33.00	34.06	33.99	33.32	46
		25#0	20.41	20.46	20.12	33.00	33.41	33.46	33.12	46
	16-QAM	1#0	20.44	20.29	20.27	33.00	33.44	33.29	33.27	46
		1#12	20.62	20.41	20.38	33.00	33.62	33.41	33.38	46
		1#24	20.45	20.28	19.68	33.00	33.45	33.28	32.68	46
		12#0	20.47	20.23	19.48	33.00	33.47	33.23	32.48	46
		12#6	20.70	20.61	19.77	33.00	33.7	33.61	32.77	46
		12#11	20.20	20.37	19.97	33.00	33.2	33.37	32.97	46
		25#0	19.47	19.45	19.35	33.00	32.47	32.45	32.35	46

Channel Bandwidth	Modulation	Resource Block & RB offset	Conducted Output Power (dBm)				EIRP(For ISEDC) (dBm)			
			2505 MHz	2535 MHz	2565 MHz	Limits	2505 MHz	2535 MHz	2565 MHz	Limits
10 MHz	QPSK	1#0	20.77	20.63	20.49	33.00	33.77	33.63	33.49	46
		1#24	20.82	20.78	20.85	33.00	33.82	33.78	33.85	46
		1#49	20.92	20.69	20.15	33.00	33.92	33.69	33.15	46
		25#0	21.11	20.45	20.41	33.00	34.11	33.45	33.41	46
		25#12	20.77	20.39	20.19	33.00	33.77	33.39	33.19	46
		25#24	21.05	20.64	19.93	33.00	34.05	33.64	32.93	46
		50#0	20.49	20.53	20.05	33.00	33.49	33.53	33.05	46
	16-QAM	1#0	20.26	20.23	19.94	33.00	33.26	33.23	32.94	46
		1#24	20.62	20.48	20.18	33.00	33.62	33.48	33.18	46
		1#49	20.52	20.32	19.66	33.00	33.52	33.32	32.66	46
		25#0	20.38	20.27	19.82	33.00	33.38	33.27	32.82	46
		25#12	20.44	20.66	19.40	33.00	33.44	33.66	32.4	46
		25#24	20.52	20.37	19.59	33.00	33.52	33.37	32.59	46
		50#0	19.50	19.51	19.29	33.00	32.5	32.51	32.29	46

Channel Bandwidth	Modulation	Resource Block & RB offset	Conducted Output Power (dBm)				EIRP(For ISEDC) (dBm)			
			2507.5 MHz	2535 MHz	2562.5 MHz	Limits	2507.5 MHz	2535 MHz	2562.5 MHz	Limits
15 MHz	QPSK	1#0	20.56	20.38	20.09	33.00	33.56	33.38	33.09	46
		1#37	20.84	20.49	20.12	33.00	33.84	33.49	33.12	46
		1#74	20.68	20.43	19.97	33.00	33.68	33.43	32.97	46
		36#0	20.86	20.41	19.65	33.00	33.86	33.41	32.65	46
		36#17	20.73	20.45	19.99	33.00	33.73	33.45	32.99	46
		36#35	20.71	20.43	20.24	33.00	33.71	33.43	33.24	46
		75#0	20.58	20.42	19.92	33.00	33.58	33.42	32.92	46
	16-QAM	1#0	20.08	19.95	19.58	33.00	33.08	32.95	32.58	46
		1#37	20.17	20.06	20.41	33.00	33.17	33.06	33.41	46
		1#74	20.13	20.13	19.36	33.00	33.13	33.13	32.36	46
		36#0	20.21	19.93	19.10	33.00	33.21	32.93	32.1	46
		36#17	20.23	20.10	19.69	33.00	33.23	33.1	32.69	46
		36#35	20.34	20.41	19.02	33.00	33.34	33.41	32.02	46
		75#0	19.58	19.44	19.13	33.00	32.58	32.44	32.13	46

Channel Bandwidth	Modulation	Resource Block & RB offset	Conducted Output Power (dBm)				EIRP(For ISEDC) (dBm)			
			2510 MHz	2535 MHz	2560 MHz	Limits	2510 MHz	2535 MHz	2560 MHz	Limits
20 MHz	QPSK	1#0	20.71	20.57	20.58	33.00	33.71	33.57	33.58	46
		1#49	20.59	20.41	20.66	33.00	33.59	33.41	33.66	46
		1#99	20.64	20.56	20.25	33.00	33.64	33.56	33.25	46
		50#0	20.78	20.45	20.57	33.00	33.78	33.45	33.57	46
		50#24	20.43	20.69	19.93	33.00	33.43	33.69	32.93	46
		50#49	20.78	20.76	20.06	33.00	33.78	33.76	33.06	46
		100#0	20.57	20.47	20.01	33.00	33.57	33.47	33.01	46
	16-QAM	1#0	20.45	20.10	20.39	33.00	33.45	33.1	33.39	46
		1#49	20.82	20.41	20.62	33.00	33.82	33.41	33.62	46
		1#99	20.38	20.11	20.06	33.00	33.38	33.11	33.06	46
		50#0	20.31	20.00	20.02	33.00	33.31	33	33.02	46
		50#24	20.11	20.37	20.22	33.00	33.11	33.37	33.22	46
		50#49	20.70	20.21	20.35	33.00	33.7	33.21	33.35	46
		100#0	19.64	19.52	19.13	33.00	32.64	32.52	32.13	46

Note: the device is fixed subscriber equipment.

PAR, Band 7 (Single Carrier):

Test Modulation		Channel Bandwidth	2510 MHz PAR (dB)	2535MHz PAR (dB)	2560MHz PAR (dB)	Limit (dB)
QPSK	1 RB	20 MHz	4.72	5.36	4.88	13
	100 RB		6.52	6.32	6.40	13
16-QAM	1 RB	20 MHz	5.12	5.60	5.40	13
	100 RB		7.04	6.96	7.08	13

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

Band 7, Carrier Aggregation:

Bandwidth	Frequency (MHz)	Modulation	PCC RB	PCC RB	SCC1 RB	SCC1 RB	Conducted Power (dBm)		E.I.R.P. (For ISEDC)	
			Size	Offset	Size	Offset	Reading	Limits	Reading	Limits
5MHz + 20MHz	2503.3+ 2515	QPSK	1	24	1	0	21.27	33.00	34.27	46.00
			1	12	1	49	21.66	33.00	34.66	46.00
			25	0	100	0	22.30	33.00	35.3	46.00
		16-QAM	1	24	1	0	21.35	33.00	34.35	46.00
			1	12	1	49	21.82	33.00	34.82	46.00
			25	0	100	0	22.22	33.00	35.22	46.00
5MHz + 20MHz	2525.8+ 2537.5	QPSK	1	24	1	0	21.50	33.00	34.5	46.00
			1	12	1	49	21.66	33.00	34.66	46.00
			25	0	100	0	21.74	33.00	34.74	46.00
		16-QAM	1	24	1	0	21.49	33.00	34.49	46.00
			1	12	1	49	21.40	33.00	34.4	46.00
			25	0	100	0	22.06	33.00	35.06	46.00
5MHz + 20MHz	2548.3+ 2560	QPSK	1	24	1	0	21.30	33.00	34.3	46.00
			1	12	1	49	21.56	33.00	34.56	46.00
			25	0	100	0	21.33	33.00	34.33	46.00
		16-QAM	1	24	1	0	21.07	33.00	34.07	46.00
			1	12	1	49	21.11	33.00	34.11	46.00
			25	0	100	0	21.96	33.00	34.96	46.00
20MHz+ 5MHz	2510.0 + 2521.7	QPSK	1	0	1	0	21.71	33.00	34.71	46.00
			1	0	1	24	21.85	33.00	34.85	46.00
			1	0	25	0	21.82	33.00	34.82	46.00
			1	99	1	0	21.71	33.00	34.71	46.00
			1	99	1	24	21.82	33.00	34.82	46.00
			1	99	25	0	21.51	33.00	34.51	46.00
			100	0	1	0	21.86	33.00	34.86	46.00
			100	0	1	24	21.72	33.00	34.72	46.00
			100	0	25	0	22.03	33.00	35.03	46.00
		16-QAM	1	0	1	0	21.65	33.00	34.65	46.00
			1	0	1	24	21.74	33.00	34.74	46.00
			1	0	25	0	21.77	33.00	34.77	46.00
			1	99	1	0	21.69	33.00	34.69	46.00
			1	99	1	24	21.75	33.00	34.75	46.00
			1	99	25	0	21.60	33.00	34.6	46.00
			100	0	1	0	21.78	33.00	34.78	46.00
			100	0	1	24	21.50	33.00	34.5	46.00
			100	0	25	0	21.56	33.00	34.56	46.00

Bandwidth	Frequency (MHz)	Modulation	PCC RB	PCC RB	SCC1 RB	SCC1 RB	Conducted Power (dBm)		E.I.R.P. (For ISEDC)	
			Size	Offset	Size	Offset	Reading	Limits	Reading	Limits
20MHz+ 5MHz	2532.5 + 2544.2	QPSK	1	0	1	0	20.63	33.00	33.63	46.00
			1	0	1	24	20.29	33.00	33.29	46.00
			1	0	25	0	20.45	33.00	33.45	46.00
			1	99	1	0	21.04	33.00	34.04	46.00
			1	99	1	24	20.74	33.00	33.74	46.00
			1	99	25	0	20.91	33.00	33.91	46.00
			100	0	1	0	21.83	33.00	34.83	46.00
			100	0	1	24	21.44	33.00	34.44	46.00
			100	0	25	0	21.90	33.00	34.9	46.00
		16-QAM	1	0	1	0	20.53	33.00	33.53	46.00
			1	0	1	24	20.28	33.00	33.28	46.00
			1	0	25	0	20.48	33.00	33.48	46.00
			1	99	1	0	21.08	33.00	34.08	46.00
			1	99	1	24	20.79	33.00	33.79	46.00
			1	99	25	0	20.93	33.00	33.93	46.00
			100	0	1	0	21.65	33.00	34.65	46.00
			100	0	1	24	21.78	33.00	34.78	46.00
			100	0	25	0	21.88	33.00	34.88	46.00
20MHz+ 5MHz	2555.0 + 2566.7	QPSK	1	0	1	0	21.68	33.00	34.68	46.00
			1	0	1	24	21.65	33.00	34.65	46.00
			1	0	25	0	21.62	33.00	34.62	46.00
			1	99	1	0	21.55	33.00	34.55	46.00
			1	99	1	24	21.54	33.00	34.54	46.00
			1	99	25	0	21.76	33.00	34.76	46.00
			100	0	1	0	21.88	33.00	34.88	46.00
			100	0	1	24	21.40	33.00	34.4	46.00
			100	0	25	0	21.67	33.00	34.67	46.00
		16-QAM	1	0	1	0	21.13	33.00	34.13	46.00
			1	0	1	24	21.13	33.00	34.13	46.00
			1	0	25	0	21.33	33.00	34.33	46.00
			1	99	1	0	21.66	33.00	34.66	46.00
			1	99	1	24	21.54	33.00	34.54	46.00
			1	99	25	0	21.65	33.00	34.65	46.00
			100	0	1	0	21.52	33.00	34.52	46.00
			100	0	1	24	21.34	33.00	34.34	46.00
			100	0	25	0	21.57	33.00	34.57	46.00
10MHz+ 20MHz	2505.5+ 2519.9	QPSK	1	49	1	0	21.45	33.00	34.45	46.00
			1	24	1	49	21.93	33.00	34.93	46.00
			50	0	100	0	21.64	33.00	34.64	46.00
		16-QAM	1	49	1	0	21.96	33.00	34.96	46.00
			1	24	1	49	21.98	33.00	34.98	46.00
			50	0	100	0	21.60	33.00	34.6	46.00

Bandwidth	Frequency (MHz)	Modulation	PCC RB	PCC RB	SCC1 RB	SCC1 RB	Conducted Power (dBm)		E.I.R.P. (For ISEDC)	
			Size	Offset	Size	Offset	Reading	Limits	Reading	Limits
10MHz+ 20MHz	2525.6+ 2540	QPSK	1	49	1	0	21.55	33.00	34.55	46.00
			1	24	1	49	21.27	33.00	34.27	46.00
			50	0	100	0	21.70	33.00	34.7	46.00
		16-QAM	1	49	1	0	21.26	33.00	34.26	46.00
			1	24	1	49	20.92	33.00	33.92	46.00
			50	0	100	0	21.63	33.00	34.63	46.00
10MHz+ 20MHz	2545.6+ 2560	QPSK	1	49	1	0	21.27	33.00	34.27	46.00
			1	24	1	49	21.35	33.00	34.35	46.00
			50	0	100	0	21.96	33.00	34.96	46.00
		16-QAM	1	49	1	0	21.40	33.00	34.4	46.00
			1	24	1	49	21.47	33.00	34.47	46.00
			50	0	100	0	22.02	33.00	35.02	46.00
20MHz+ 10MHz	2510.0+ 2524.4	QPSK	1	99	1	0	21.75	33.00	34.75	46.00
			100	0	50	0	21.98	33.00	34.98	46.00
		16-QAM	1	99	1	0	21.68	33.00	34.68	46.00
100	0		50	0	21.96	33.00	34.96	46.00		
20MHz+ 10MHz	2530.1 + 2544.5	QPSK	1	99	1	0	21.63	33.00	34.63	46.00
			100	0	50	0	21.87	33.00	34.87	46.00
		16-QAM	1	99	1	0	21.68	33.00	34.68	46.00
100	0		50	0	21.88	33.00	34.88	46.00		
20MHz+ 10MHz	2550.1+ 2564.5	QPSK	1	99	1	0	21.58	33.00	34.58	46.00
			100	0	50	0	22.06	33.00	35.06	46.00
		16-QAM	1	99	1	0	21.56	33.00	34.56	46.00
100	0		50	0	22.15	33.00	35.15	46.00		
15MHz+ 15MHz	2507.5 + 2522.5	QPSK	1	74	1	0	21.73	33.00	34.73	46.00
			75	0	75	0	21.86	33.00	34.86	46.00
		16-QAM	1	74	1	0	21.96	33.00	34.96	46.00
75	0		75	0	21.95	33.00	34.95	46.00		
15MHz+ 15MHz	2527.5+ 2542.5	QPSK	1	74	1	0	21.62	33.00	34.62	46.00
			75	0	75	0	21.26	33.00	34.26	46.00
		16-QAM	1	74	1	0	21.64	33.00	34.64	46.00
75	0		75	0	21.51	33.00	34.51	46.00		
15MHz+ 15MHz	2547.5 + 2562.5	QPSK	1	74	1	0	21.24	33.00	34.24	46.00
			75	0	75	0	22.36	33.00	35.36	46.00
		16-QAM	1	74	1	0	21.44	33.00	34.44	46.00
75	0		75	0	22.08	33.00	35.08	46.00		
15MHz+ 20MHz	2507.8 + 2524.9	QPSK	1	74	1	0	21.92	33.00	34.92	46.00
			1	36	1	49	21.84	33.00	34.84	46.00
			75	0	100	0	22.14	33.00	35.14	46.00
		16QAM	1	74	1	0	21.97	33.00	34.97	46.00
			1	36	1	49	22.84	33.00	35.84	46.00
			75	0	100	0	22.56	33.00	35.56	46.00

Bandwidth	Frequency (MHz)	Modulation	PCC RB	PCC RB	SCC1 RB	SCC1 RB	Conducted Power (dBm)		E.I.R.P. (For ISEDC)	
			Size	Offset	Size	Offset	Reading	Limits	Reading	Limits
15MHz+ 20MHz	2525.3+ 2542.4	QPSK	1	74	1	0	21.75	33.00	34.75	46.00
			1	36	1	49	20.63	33.00	33.63	46.00
			75	0	100	0	21.81	33.00	34.81	46.00
		16-QAM	1	74	1	0	21.69	33.00	34.69	46.00
			1	36	1	49	20.77	33.00	33.77	46.00
			75	0	100	0	21.59	33.00	34.59	46.00
15MHz+ 20MHz	2542.9+ 2560.0	QPSK	1	74	1	0	21.83	33.00	34.83	46.00
			1	36	1	49	21.75	33.00	34.75	46.00
			75	0	100	0	22.32	33.00	35.32	46.00
		16-QAM	1	74	1	0	21.83	33.00	34.83	46.00
			1	36	1	49	21.82	33.00	34.82	46.00
			75	0	100	0	22.14	33.00	35.14	46.00
20MHz+ 15MHz	2510.0+ 2527.1	QPSK	1	99	1	0	21.57	33.00	34.57	46.00
			100	0	75	0	21.75	33.00	34.75	46.00
		16-QAM	1	99	1	0	21.49	33.00	34.49	46.00
100	0		75	0	21.87	33.00	34.87	46.00		
20MHz+ 15MHz	2527.6+ 2544.7	QPSK	1	99	1	0	21.59	33.00	34.59	46.00
			100	0	75	0	22.06	33.00	35.06	46.00
		16-QAM	1	99	1	0	21.57	33.00	34.57	46.00
100	0		75	0	21.96	33.00	34.96	46.00		
20MHz+ 15MHz	2545.1+ 2562.2	QPSK	1	99	1	0	21.73	33.00	34.73	46.00
			100	0	75	0	21.87	33.00	34.87	46.00
		16-QAM	1	99	1	0	21.71	33.00	34.71	46.00
100	0		75	0	22.05	33.00	35.05	46.00		
20MHz+ 20MHz	2510.0+ 2529.8	QPSK	1	0	1	0	21.59	33.00	34.59	46.00
			1	0	1	99	20.92	33.00	33.92	46.00
			1	0	100	0	22.15	33.00	35.15	46.00
			1	49	1	49	22.18	33.00	35.18	46.00
			1	99	1	0	21.37	33.00	34.37	46.00
			1	99	1	99	20.81	33.00	33.81	46.00
			1	99	100	0	21.67	33.00	34.67	46.00
			100	0	1	0	22.03	33.00	35.03	46.00
			100	0	1	99	21.32	33.00	34.32	46.00
		16-QAM	100	0	100	0	21.76	33.00	34.76	46.00
			1	0	1	0	21.42	33.00	34.42	46.00
			1	0	1	99	20.73	33.00	33.73	46.00
			1	0	100	0	21.98	33.00	34.98	46.00
			1	49	1	49	22.05	33.00	35.05	46.00
			1	99	1	0	21.28	33.00	34.28	46.00
			1	99	1	99	20.84	33.00	33.84	46.00
			1	99	100	0	21.68	33.00	34.68	46.00
100	0	1	0	21.84	33.00	34.84	46.00			
100	0	1	99	21.16	33.00	34.16	46.00			
100	0	100	0	21.62	33.00	34.62	46.00			

Bandwidth	Frequency (MHz)	Modulation	PCC RB	PCC RB	SCC1 RB	SCC1 RB	Conducted Power (dBm)		E.I.R.P. (For ISEDC)	
			Size	Offset	Size	Offset	Reading	Limits	Reading	Limits
20MHz+ 20MHz	2525.1 + 2544.9	QPSK	1	0	1	0	21.70	33.00	34.7	46.00
			1	0	1	99	20.59	33.00	33.59	46.00
			1	0	100	0	20.74	33.00	33.74	46.00
			1	49	1	49	21.18	33.00	34.18	46.00
			1	99	1	0	21.46	33.00	34.46	46.00
			1	99	1	99	20.84	33.00	33.84	46.00
			1	99	100	0	20.71	33.00	33.71	46.00
			100	0	1	0	21.06	33.00	34.06	46.00
			100	0	1	99	21.07	33.00	34.07	46.00
		100	0	100	0	21.58	33.00	34.58	46.00	
		16-QAM	1	0	1	0	21.18	33.00	34.18	46.00
			1	0	1	99	20.16	33.00	33.16	46.00
			1	0	100	0	20.63	33.00	33.63	46.00
			1	49	1	49	20.74	33.00	33.74	46.00
			1	99	1	0	21.20	33.00	34.2	46.00
			1	99	1	99	20.51	33.00	33.51	46.00
			1	99	100	0	20.08	33.00	33.08	46.00
			100	0	1	0	21.11	33.00	34.11	46.00
100	0		1	99	21.05	33.00	34.05	46.00		
100	0	100	0	21.65	33.00	34.65	46.00			
20MHz+ 20MHz	2540.2+ 2560.0	QPSK	1	0	1	0	20.21	33.00	33.21	46.00
			1	0	1	99	20.17	33.00	33.17	46.00
			1	0	100	0	20.19	33.00	33.19	46.00
			1	49	1	49	21.04	33.00	34.04	46.00
			1	99	1	0	21.14	33.00	34.14	46.00
			1	99	1	99	21.25	33.00	34.25	46.00
			1	99	100	0	21.24	33.00	34.24	46.00
			100	0	1	0	21.01	33.00	34.01	46.00
			100	0	1	99	20.73	33.00	33.73	46.00
		100	0	100	0	20.76	33.00	33.76	46.00	
		16-QAM	1	0	1	0	20.20	33.00	33.2	46.00
			1	0	1	99	20.24	33.00	33.24	46.00
			1	0	100	0	20.26	33.00	33.26	46.00
			1	49	1	49	20.93	33.00	33.93	46.00
			1	99	1	0	21.14	33.00	34.14	46.00
			1	99	1	99	21.27	33.00	34.27	46.00
			1	99	100	0	21.31	33.00	34.31	46.00
			100	0	1	0	21.10	33.00	34.1	46.00
100	0		1	99	21.06	33.00	34.06	46.00		
100	0	100	0	21.37	33.00	34.37	46.00			

Note: the device is fixed subscriber equipment.

PAR, Band 7 (Carrier Aggregation):

Bandwidth	Frequency (MHz)	Modulation	PAR(dB)	Limit(dB)
5MHz+20MHz	2525.80+2537.50	QPSK	6.11	13.00
		16-QAM	6.25	13.00
10MHz+20MHz	2525.60+2540.00	QPSK	6.57	13.00
		16-QAM	6.01	13.00
15MHz+15MHz	2527.50+2542.50	QPSK	6.16	13.00
		16-QAM	6.26	13.00
15MHz+20MHz	2525.30+2542.40	QPSK	6.39	13.00
		16-QAM	6.87	13.00
20MHz+5MHz	2532.50+2544.20	QPSK	6.73	13.00
		16-QAM	6.31	13.00
20MHz+10MHz	2550.10+2564.50	QPSK	6.58	13.00
		16-QAM	7.06	13.00
20MHz+15MHz	2527.60+2544.70	QPSK	6.61	13.00
		16-QAM	6.29	13.00
20MHz+20MHz	2525.10+2544.90	QPSK	6.31	13.00
		16-QAM	6.87	13.00

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

Band 40(2305-2320MHz):

Peak Power within any 5 megahertz:

Test Bandwidth	Test Frequency (MHz)	Resource Block & RB offset	Peak Output Power (dBm/5MHz)		Antenna Gain (dBi)	Peak EIRP (dBm/5MHz)			
			QPSK	16-QAM		QPSK	16-QAM	Limits	
5M	2307.5	1#0	26.60	26.09	13.00	39.60	39.09	43	
		1#13	26.42	26.01	13.00	39.42	39.01	43	
		1#24	26.38	25.75	13.00	39.38	38.75	43	
		12#0	26.17	25.95	13.00	39.17	38.95	43	
		12#6	26.23	25.69	13.00	39.23	38.69	43	
		12#13	26.23	25.69	13.00	39.23	38.69	43	
		25#0	25.75	26.33	13.00	38.75	39.33	43	
	2312.5	1#0	25.75	26.33	13.00	38.75	39.33	43	
		1#13	25.81	26.48	13.00	38.81	39.48	43	
		1#24	25.34	25.95	13.00	38.34	38.95	43	
		12#0	25.52	26.12	13.00	38.52	39.12	43	
		12#6	25.22	25.83	13.00	38.22	38.83	43	
		12#13	25.60	26.08	13.00	38.60	39.08	43	
		25#0	25.60	26.08	13.00	38.60	39.08	43	
	2317.5	1#0	26.46	26.33	13.00	39.46	39.33	43	
		1#13	26.31	26.05	13.00	39.31	39.05	43	
		1#24	26.31	26.32	13.00	39.31	39.32	43	
		12#0	26.29	25.95	13.00	39.29	38.95	43	
		12#6	26.41	25.99	13.00	39.41	38.99	43	
		12#13	26.35	25.79	13.00	39.35	38.79	43	
		25#0	26.36	26.34	13.00	39.36	39.34	43	
	10M	2310	1#0	26.12	26.14	13.00	39.12	39.14	43
			1#25	26.23	26.01	13.00	39.23	39.01	43
			1#49	26.13	25.32	13.00	39.13	38.32	43
25#0			24.01	23.76	13.00	37.01	36.76	43	
25#13			24.60	24.21	13.00	37.6	37.21	43	
25#25			24.52	24.67	13.00	37.52	37.67	43	
50#0			23.87	23.23	13.00	36.87	36.23	43	
2312.5		1#0	26.09	25.65	13.00	39.09	38.65	43	
		1#25	24.65	25.76	13.00	37.65	38.76	43	
		1#49	25.65	25.43	13.00	38.65	38.43	43	
		25#0	24.03	24.07	13.00	37.03	37.07	43	
		25#13	24.43	24.43	13.00	37.43	37.43	43	
		25#25	24.11	24.32	13.00	37.11	37.32	43	
		50#0	24.25	24.23	13.00	37.25	37.23	43	
2315		1#0	24.41	24.54	13.00	37.41	37.54	43	
		1#25	24.54	24.11	13.00	37.54	37.11	43	
		1#49	24.56	24.43	13.00	37.56	37.43	43	
		25#0	24.89	24.76	13.00	37.89	37.76	43	
		25#13	24.85	24.56	13.00	37.85	37.56	43	
		25#25	24.81	26.54	13.00	37.81	39.54	43	
		50#0	25.42	25.82	13.00	38.42	38.82	43	

Test Bandwidth	Test Frequency (MHz)	Resource Block & RB offset	Peak Output Power (dBm/5MHz)		Antenna Gain (dBi)	Peak EIRP (dBm/5MHz)		
			QPSK	16-QAM		QPSK	16-QAM	Limits
15M	2312.5	1#0	25.09	25.23	13.00	38.09	38.23	43
		1#38	25.23	25.31	13.00	38.23	38.31	43
		1#74	24.33	25.13	13.00	37.33	38.13	43
		36#0	24.12	24.88	13.00	37.12	37.88	43
		36#19	23.45	25.13	13.00	36.45	38.13	43
		36#39	24.44	25.44	13.00	37.44	38.44	43
		75#0	25.23	25.37	13.00	38.23	38.37	43

FINAL

Average Power within any 5 megahertz:

Test Bandwidth	Test Frequency (MHz)	Resource Block & RB offset	Average Output Power (dBm/5MHz)		Antenna Gain (dBi)	Average EIRP (dBm/5MHz)		Limit (dBm)
			QPSK	16-QAM		QPSK	16-QAM	
5M	2307.5	1#0	19.13	19.51	13.00	32.13	32.51	33
		1#13	19.52	19.48	13.00	32.52	32.48	
		1#24	19.90	19.30	13.00	32.90	32.30	
		12#0	19.77	19.31	13.00	32.77	32.31	
		12#6	19.70	19.20	13.00	32.70	32.20	
		12#13	19.23	19.23	13.00	32.23	32.23	
		25#0	19.63	19.56	13.00	32.63	32.56	
	2312.5	1#0	19.07	19.55	13.00	32.07	32.55	
		1#13	19.21	19.65	13.00	32.21	32.65	
		1#24	19.57	19.07	13.00	32.57	32.07	
		12#0	19.51	18.90	13.00	32.51	31.90	
		12#6	19.81	18.90	13.00	32.81	31.90	
		12#13	19.71	19.05	13.00	32.71	32.05	
		25#0	19.48	19.40	13.00	32.48	32.40	
	2317.5	1#0	19.85	19.75	13.00	32.85	32.75	
		1#13	19.57	19.68	13.00	32.57	32.68	
		1#24	19.68	19.51	13.00	32.68	32.51	
		12#0	19.56	19.54	13.00	32.56	32.54	
		12#6	19.43	19.41	13.00	32.43	32.41	
		12#13	19.72	19.36	13.00	32.72	32.36	
		25#0	19.49	19.42	13.00	32.49	32.42	
10M	2310	1#0	19.32	19.73	13.00	32.32	32.73	33
		1#25	19.37	19.87	13.00	32.37	32.87	
		1#49	18.47	19.79	13.00	31.47	32.79	
		25#0	18.86	18.50	13.00	31.86	31.50	
		25#13	18.82	18.30	13.00	31.82	31.30	
		25#25	18.33	17.94	13.00	31.33	30.94	
		50#0	17.22	16.62	13.00	30.22	29.62	
	2312.5	1#0	19.05	19.47	13.00	32.05	32.47	
		1#25	18.84	19.33	13.00	31.84	32.33	
		1#49	18.62	19.91	13.00	31.62	32.91	
		25#0	18.57	18.21	13.00	31.57	31.21	
		25#13	18.36	18.02	13.00	31.36	31.02	
		25#25	18.15	17.92	13.00	31.15	30.92	
		50#0	16.91	16.10	13.00	29.91	29.10	
	2315	1#0	19.64	19.82	13.00	32.64	32.82	
		1#25	19.40	19.96	13.00	32.40	32.96	
		1#49	19.85	19.64	13.00	32.85	32.64	
		25#0	18.21	18.01	13.00	31.21	31.01	
		25#13	18.45	18.17	13.00	31.45	31.17	
		25#25	18.55	18.30	13.00	31.55	31.30	
		50#0	17.43	16.53	13.00	30.43	29.53	
15M	2312.5	1#0	19.99	19.85	13.00	32.99	32.85	33
		1#38	18.95	19.62	13.00	31.95	32.62	
		1#74	18.88	19.60	13.00	31.88	32.60	
		36#0	17.95	17.39	13.00	30.95	30.39	
		36#19	17.80	17.20	13.00	30.80	30.20	
		36#39	17.77	17.19	13.00	30.77	30.19	
		75#0	17.77	17.07	13.00	30.77	30.07	

Note: the device is a fixed Outdoor customer premises equipment(CPE) using TDD technology. For 5MHz mode, the channel power is equal to the test result in dBm/5MHz. For 10MHz and 15MHz mode, the channel power as below:

Average Power:

Test Bandwidth	Test Frequency (MHz)	Resource Block & RB offset	Average Output Power (dBm)		Antenna Gain (dBi)	Average EIRP (dBm)	
			QPSK	16-QAM		QPSK	16-QAM
10M	2310	1#0	21.02	21.31	13.00	34.02	34.31
		1#25	21.09	21.45	13.00	34.09	34.45
		1#49	21.22	21.37	13.00	34.22	34.37
		25#0	21.11	20.75	13.00	34.11	33.75
		25#13	20.98	20.61	13.00	33.98	33.61
		25#25	21.14	20.14	13.00	34.14	33.14
		50#0	20.95	20.81	13.00	33.95	33.81
	2312.5	1#0	21.06	21.06	13.00	34.06	34.06
		1#25	20.92	20.65	13.00	33.92	33.65
		1#49	20.78	21.12	13.00	33.78	34.12
		25#0	20.68	21.03	13.00	33.68	34.03
		25#13	20.99	20.9	13.00	33.99	33.9
		25#25	20.87	20.98	13.00	33.87	33.98
		50#0	20.69	20.5	13.00	33.69	33.5
	2315	1#0	21.06	21.12	13.00	34.06	34.12
		1#25	21.14	21.11	13.00	34.14	34.11
		1#49	21.36	21.09	13.00	34.36	34.09
		25#0	20.54	20.64	13.00	33.54	33.64
		25#13	20.68	20.39	13.00	33.68	33.39
		25#25	20.79	20.44	13.00	33.79	33.44
		50#0	20.45	20.7	13.00	33.45	33.7
15M	2312.5	1#0	22.15	22.23	13.00	35.15	35.23
		1#38	21.08	21.08	13.00	34.08	34.08
		1#74	21.18	21.18	13.00	34.18	34.18
		36#0	20.26	20.24	13.00	33.26	33.24
		36#19	20.18	20.27	13.00	33.18	33.27
		36#39	20.19	20.33	13.00	33.19	33.33
		75#0	20.24	20.46	13.00	33.24	33.46

Band 40(2345-2360MHz):

Peak Power within any 5 megahertz:

Test Bandwidth	Test Frequency (MHz)	Resource Block & RB offset	Peak Output Power (dBm/5MHz)		Antenna Gain (dBi)	Peak EIRP (dBm/5MHz)			
			QPSK	16-QAM		QPSK	16-QAM	Limits	
5M	2347.5	1#0	26.54	26.06	13.00	39.54	39.06	43	
		1#13	26.41	26.16	13.00	39.41	39.16	43	
		1#24	26.52	25.99	13.00	39.52	38.99	43	
		12#0	26.44	25.80	13.00	39.44	38.8	43	
		12#6	26.33	26.24	13.00	39.33	39.24	43	
		12#13	26.44	25.84	13.00	39.44	38.84	43	
		25#0	27.06	27.04	13.00	40.06	40.04	43	
	2352.5	1#0	26.46	26.52	13.00	39.46	39.52	43	
		1#13	26.51	26.35	13.00	39.51	39.35	43	
		1#24	26.37	26.42	13.00	39.37	39.42	43	
		12#0	26.58	26.35	13.00	39.58	39.35	43	
		12#6	26.36	26.24	13.00	39.36	39.24	43	
		12#13	26.62	26.33	13.00	39.62	39.33	43	
		25#0	27.24	27.24	13.00	40.24	40.24	43	
	2357.5	1#0	25.54	24.51	13.00	38.54	37.51	43	
		1#13	25.64	24.61	13.00	38.64	37.61	43	
		1#24	25.41	24.02	13.00	38.41	37.02	43	
		12#0	25.34	23.91	13.00	38.34	36.91	43	
		12#6	25.68	23.88	13.00	38.68	36.88	43	
		12#13	25.21	24.04	13.00	38.21	37.04	43	
		25#0	26.25	25.84	13.00	39.25	38.84	43	
	10M	2350	1#0	26.31	26.38	13.00	39.31	39.38	43
			1#25	26.45	26.25	13.00	39.45	39.25	43
			1#49	26.39	25.65	13.00	39.39	38.65	43
25#0			26.44	26.20	13.00	39.44	39.20	43	
25#13			26.60	26.01	13.00	39.60	39.01	43	
25#25			26.57	26.40	13.00	39.57	39.40	43	
50#0			27.43	27.35	13.00	40.43	40.35	43	
2352.5		1#0	26.41	25.92	13.00	39.41	38.92	43	
		1#25	26.18	26.05	13.00	39.18	39.05	43	
		1#49	26.16	25.71	13.00	39.16	38.71	43	
		25#0	26.03	26.07	13.00	39.03	39.07	43	
		25#13	25.89	25.82	13.00	38.89	38.82	43	
		25#25	26.28	26.08	13.00	39.28	39.08	43	
		50#0	26.65	26.18	13.00	39.65	39.18	43	
2355		1#0	26.49	26.28	13.00	39.49	39.28	43	
		1#25	26.55	26.05	13.00	39.55	39.05	43	
		1#49	26.61	26.28	13.00	39.61	39.28	43	
		25#0	26.80	26.26	13.00	39.80	39.26	43	
		25#13	26.81	26.56	13.00	39.81	39.56	43	
		25#25	26.82	26.54	13.00	39.82	39.54	43	
		50#0	27.42	26.86	13.00	40.42	39.86	43	

Test Bandwidth	Test Frequency (MHz)	Resource Block & RB offset	Peak Output Power (dBm/5MHz)		Antenna Gain (dBi)	Peak EIRP (dBm/5MHz)		
			QPSK	16-QAM		QPSK	16-QAM	Limits
15M	2352.5	1#0	25.93	26.29	13.00	38.93	39.29	43
		1#38	26.05	26.35	13.00	39.05	39.35	43
		1#74	25.70	26.16	13.00	38.70	39.16	43
		36#0	25.53	26.41	13.00	38.53	39.41	43
		36#19	25.45	26.14	13.00	38.45	39.14	43
		36#39	25.68	26.20	13.00	38.68	39.20	43
		75#0	26.92	26.37	13.00	39.92	39.37	43

FEMVA

Average Power within any 5 megahertz:

Test Bandwidth	Test Frequency (MHz)	Resource Block & RB offset	Average Output Power (dBm/5MHz)		Antenna Gain (dBi)	Average EIRP (dBm/5MHz)		Limit (dBm)
			QPSK	16-QAM		QPSK	16-QAM	
5M	2347.5	1#0	19.93	19.32	13.00	32.93	32.32	33
		1#13	19.88	19.51	13.00	32.88	32.51	
		1#24	19.78	19.06	13.00	32.78	32.06	
		12#0	19.90	18.95	13.00	32.90	31.95	
		12#6	19.69	18.82	13.00	32.69	31.82	
		12#13	19.79	19.35	13.00	32.79	32.35	
		25#0	19.57	19.64	13.00	32.57	32.64	
	2352.5	1#0	19.89	19.41	13.00	32.89	32.41	
		1#13	19.81	19.62	13.00	32.81	32.62	
		1#24	19.66	19.95	13.00	32.66	32.95	
		12#0	19.70	19.96	13.00	32.70	32.96	
		12#6	19.94	20.22	13.00	32.94	33.22	
		12#13	19.45	19.96	13.00	32.45	32.96	
		25#0	19.58	19.63	13.00	32.58	32.63	
	2357.5	1#0	19.55	18.74	13.00	32.55	31.74	
		1#13	19.64	18.88	13.00	32.64	31.88	
		1#24	19.19	18.41	13.00	32.19	31.41	
		12#0	19.32	18.71	13.00	32.32	31.71	
		12#6	19.47	18.30	13.00	32.47	31.30	
		12#13	19.13	18.51	13.00	32.13	31.51	
		25#0	19.58	18.59	13.00	32.58	31.59	
10M	2350	1#0	19.15	19.11	13.00	32.15	32.11	33
		1#25	19.57	19.2	13.00	32.57	32.2	
		1#49	19.47	18.88	13.00	32.47	31.88	
		25#0	18.74	18.97	13.00	31.74	31.97	
		25#13	18.79	18.41	13.00	31.79	31.41	
		25#25	18.77	18.46	13.00	31.77	31.46	
		50#0	17.69	17.44	13.00	30.69	30.44	
	2352.5	1#0	19.18	18.97	13.00	32.18	31.97	
		1#25	19.29	19.22	13.00	32.29	32.22	
		1#49	19.74	19.47	13.00	32.74	32.47	
		25#0	18.44	19.36	13.00	31.44	32.36	
		25#13	18.62	18.71	13.00	31.62	31.71	
		25#25	18.48	18.65	13.00	31.48	31.65	
		50#0	17.49	17.96	13.00	30.49	30.96	
	2355	1#0	19.53	19.11	13.00	32.53	32.11	
		1#25	19.42	19.06	13.00	32.42	32.06	
		1#49	19.11	18.78	13.00	32.11	31.78	
		25#0	18.46	18.91	13.00	31.46	31.91	
		25#13	18.32	18.23	13.00	31.32	31.23	
		25#25	18.24	18.11	13.00	31.24	31.11	
		50#0	17.56	17.45	13.00	30.56	30.45	
15M	2352.5	1#0	19.46	18.47	13.00	32.46	31.47	33
		1#38	19.21	19.02	13.00	32.21	32.02	
		1#74	19.44	19.01	13.00	32.44	32.01	
		36#0	18.41	18.45	13.00	31.41	31.45	
		36#19	18.26	18.14	13.00	31.26	31.14	
		36#39	18.74	18.22	13.00	31.74	31.22	
		75#0	17.36	17.69	13.00	30.36	30.69	

Note: the device is a fixed Outdoor customer premises equipment(CPE) using TDD technology. For 5MHz mode, the channel power is equal to the test result in dBm/5MHz. For 10MHz and 15MHz mode, the channel power as below:

Average Power:

Test Bandwidth	Test Frequency (MHz)	Resource Block & RB offset	Peak Output Power (dBm)		Antenna Gain (dBi)	EIRP (dBm)	
			QPSK	16-QAM		QPSK	16-QAM
10M	2350	1#0	20.18	20.26	13.00	33.18	33.26
		1#25	20.04	20.18	13.00	33.04	33.18
		1#49	20.02	20.09	13.00	33.02	33.09
		25#0	19.79	20.21	13.00	32.79	33.21
		25#13	20.23	20.08	13.00	33.23	33.08
		25#25	20.31	20.2	13.00	33.31	33.2
		50#0	20.2	20.16	13.00	33.2	33.16
	2352.5	1#0	20.14	20.25	13.00	33.14	33.25
		1#25	20.28	20.17	13.00	33.28	33.17
		1#49	19.86	19.98	13.00	32.86	32.98
		25#0	19.69	20.24	13.00	32.69	33.24
		25#13	20.14	20.08	13.00	33.14	33.08
		25#25	20.04	19.93	13.00	33.04	32.93
		50#0	20.18	20.1	13.00	33.18	33.1
	2355	1#0	19.96	20.13	13.00	32.96	33.13
		1#25	20.04	20.25	13.00	33.04	33.25
		1#49	19.63	19.81	13.00	32.63	32.81
		25#0	19.48	20.05	13.00	32.48	33.05
		25#13	19.71	20.02	13.00	32.71	33.02
		25#25	19.6	19.57	13.00	32.6	32.57
		50#0	20.24	20.17	13.00	33.24	33.17
15M	2352.5	1#0	22.18	22.26	13.00	35.18	35.26
		1#38	22.04	22.18	13.00	35.04	35.18
		1#74	22.02	22.09	13.00	35.02	35.09
		36#0	21.79	22.21	13.00	34.79	35.21
		36#19	22.23	22.08	13.00	35.23	35.08
		36#39	22.31	22.2	13.00	35.31	35.2
		75#0	22.2	22.16	13.00	35.2	35.16

Duty cycle:

Band 40(2305-2320MHz)

Test Modulation	Test Bandwidth	Ton (ms)	Total (ms)	Duty Cycle (%)	Limit (%)
QPSK	5M	3.15	10.06	31.31	38
	10M	3.15	10.00	31.50	
	15M	3.15	10.00	31.50	
16-QAM	5M	3.21	10.06	31.91	
	10M	3.21	10.06	31.91	
	15M	3.15	10.00	31.50	

Band 40(2345-2360MHz)

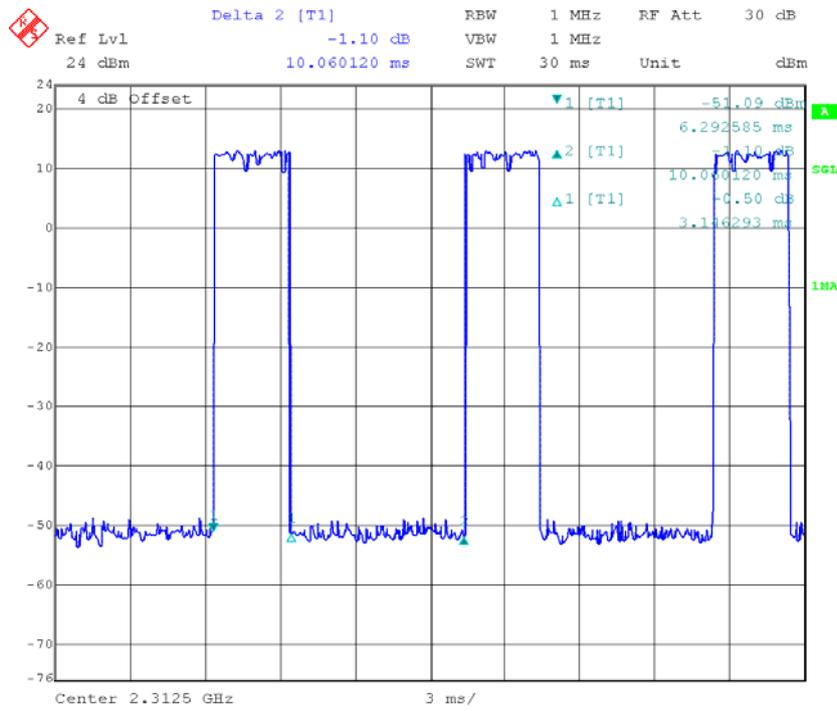
Test Modulation	Test Bandwidth	Ton (ms)	Total (ms)	Duty Cycle (%)	Limit (%)
QPSK	5M	3.15	10.06	31.31	38
	10M	3.15	10.00	31.50	
	15M	3.15	10.06	31.31	
16-QAM	5M	3.15	10.00	31.50	
	10M	3.15	10.00	31.50	
	15M	3.15	10.06	31.31	

Note: EUT setup is as following:

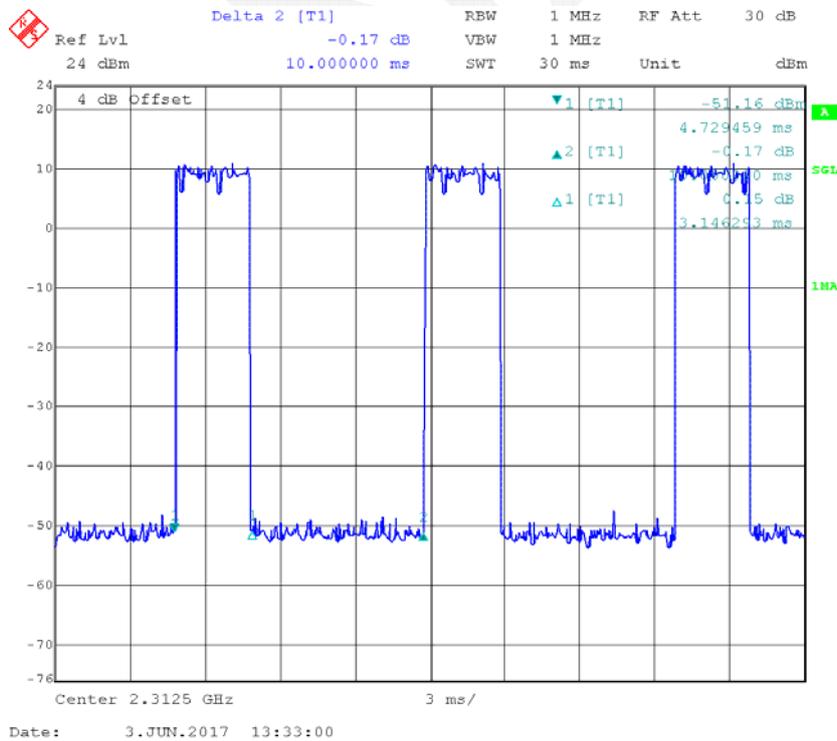
Uplink Downlink configuration	Subframe number									
	0	1	2	3	4	5	6	7	8	9
3	D	S	U	U	U	D	D	D	D	D

Band 40(2305-2320MHz)

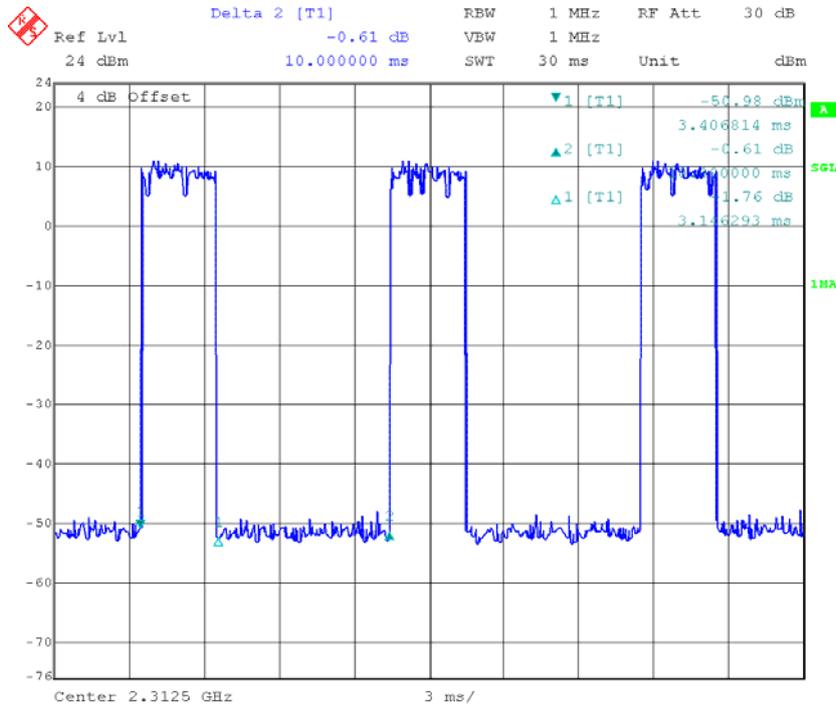
QPSK_5MHz_RB25



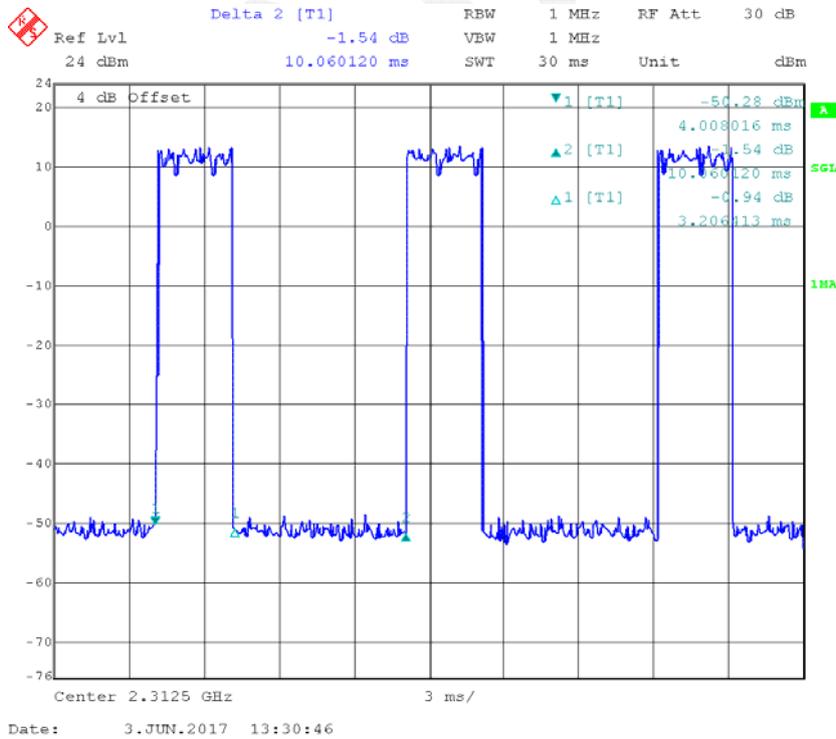
QPSK_10MHz_RB50



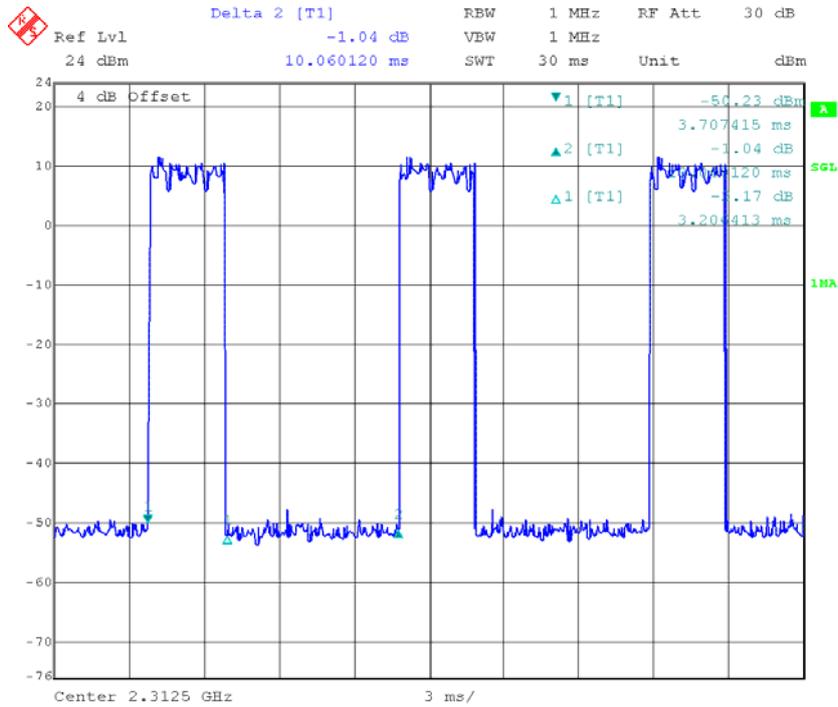
QPSK_15MHz_RB75



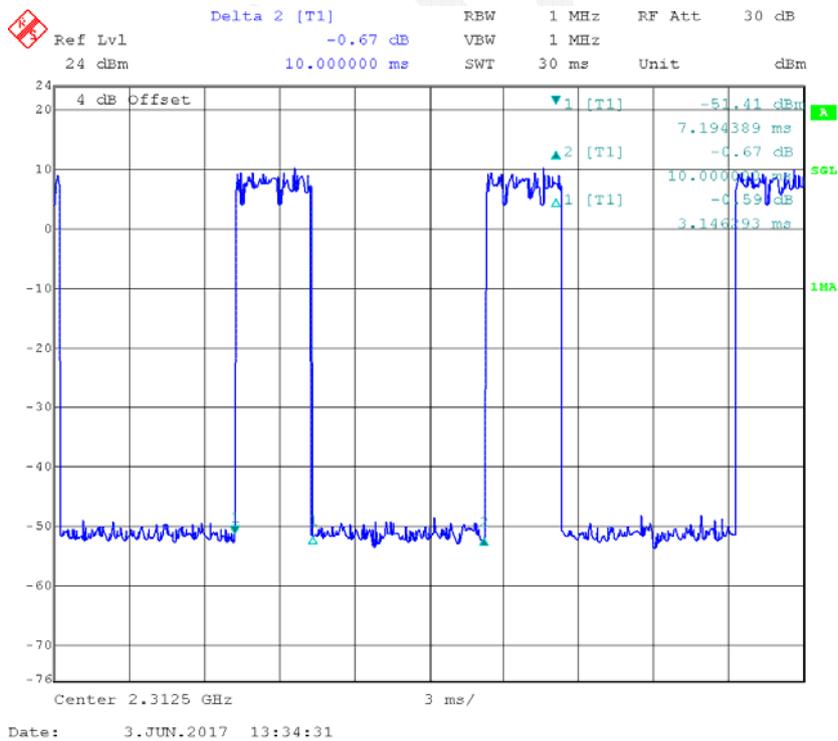
16-QAM_5MHz_RB25



16-QAM_10MHz_RB50

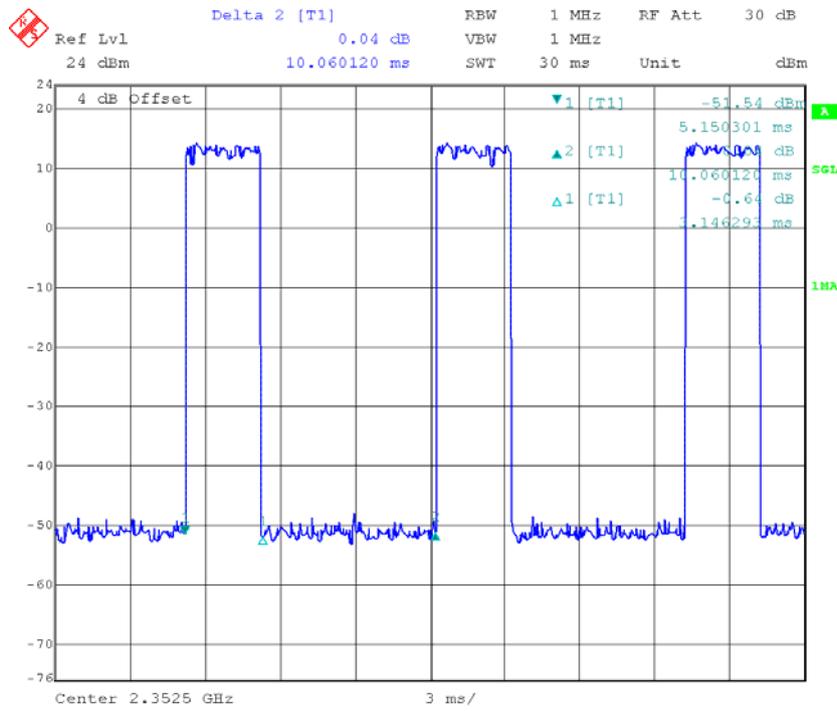


16-QAM_15MHz_RB75

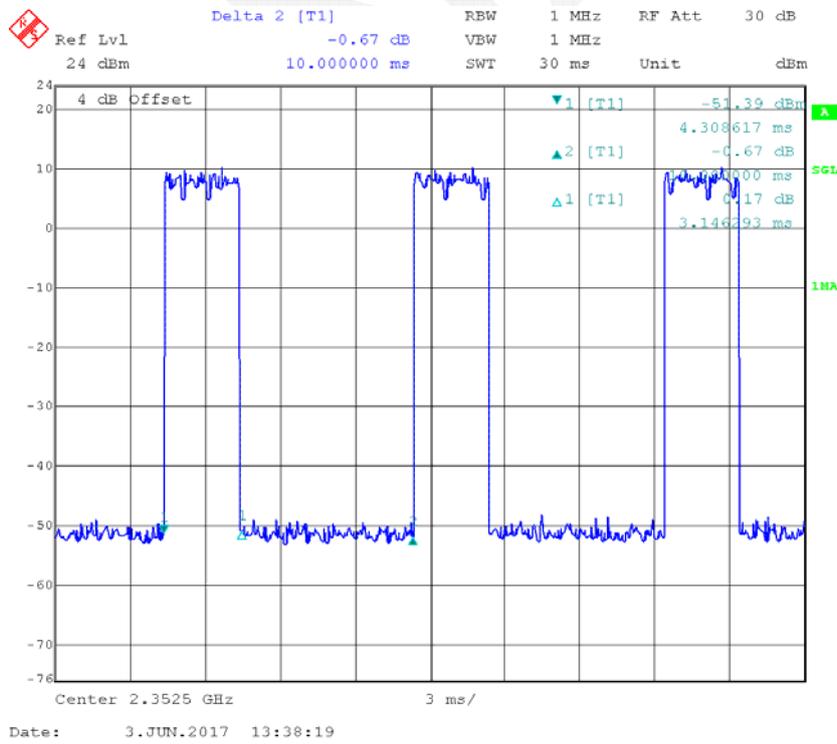


Band 40(2345-2360MHz)

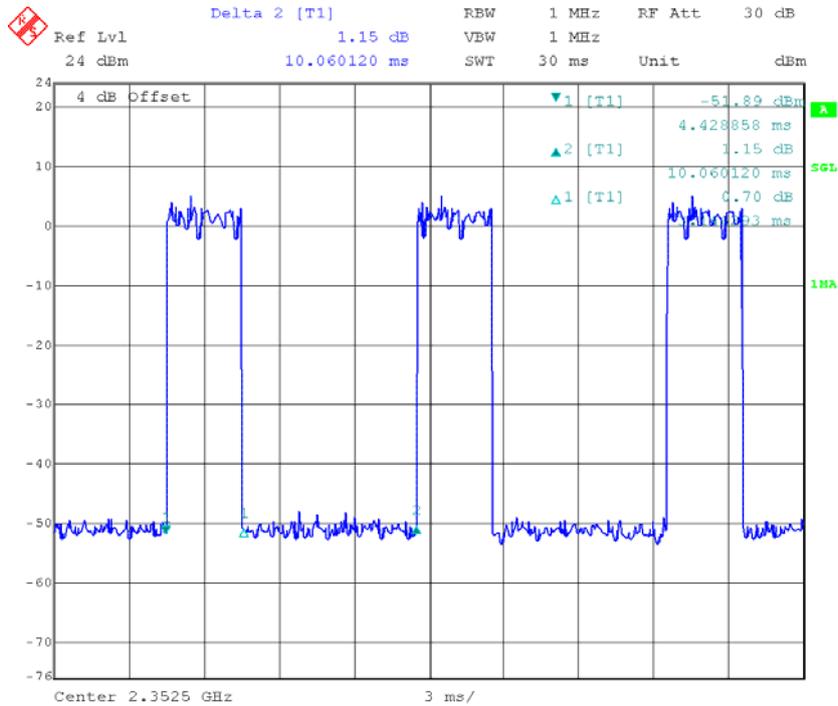
QPSK_5MHz_RB25



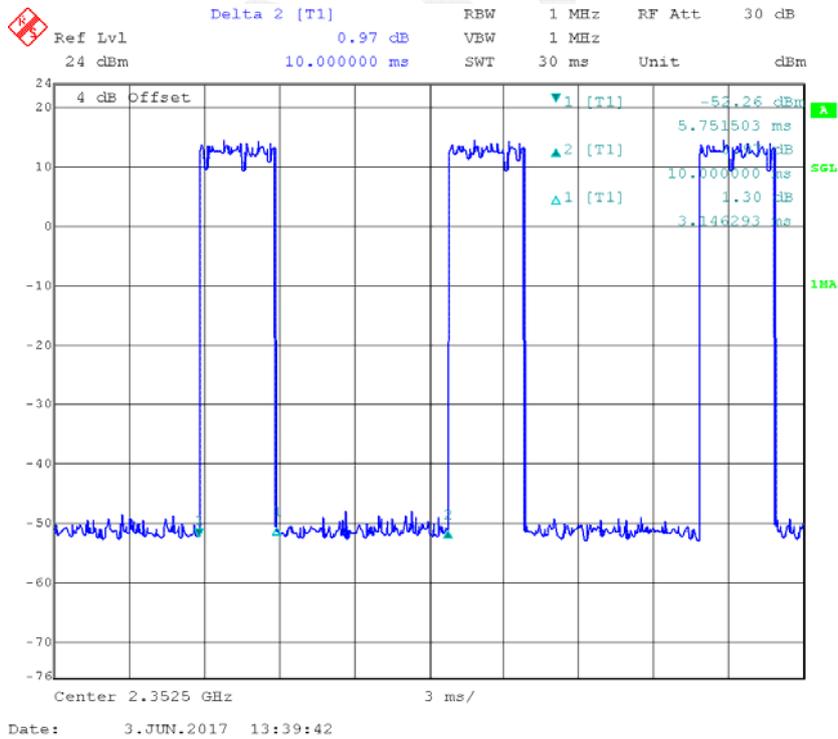
QPSK_10MHz_RB50



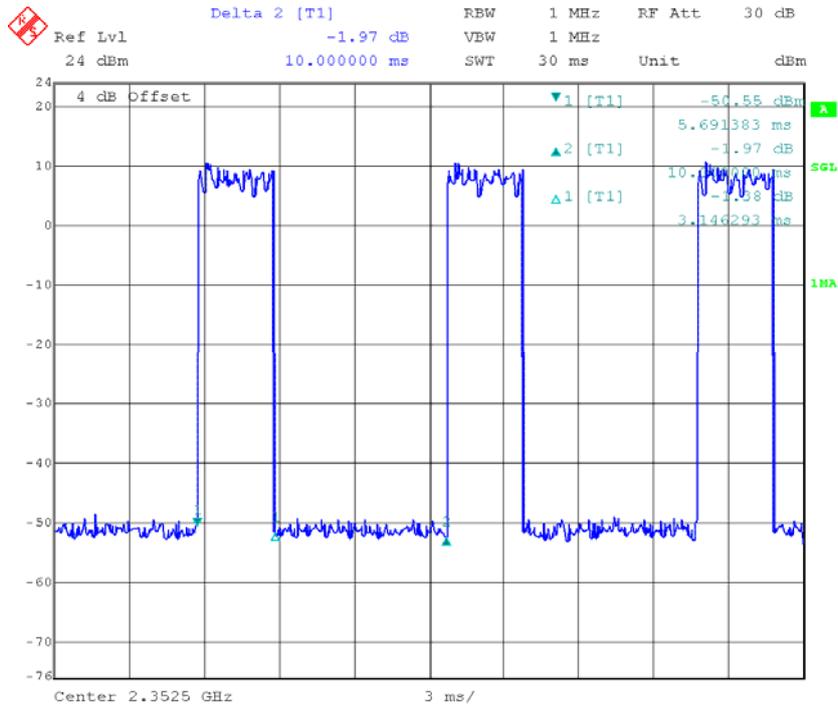
QPSK_15MHz_RB75



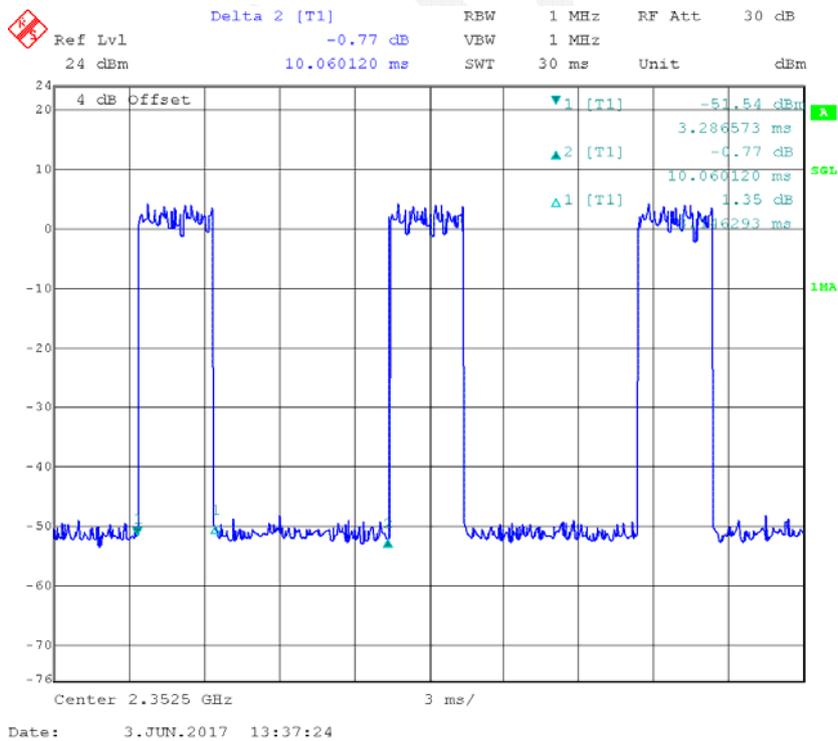
16-QAM_5MHz_RB25



16-QAM_10MHz_RB50



16-QAM_15MHz_RB75



Band 41, Single Carrier:

Channel Bandwidth	Modulation	Resource Block & RB offset	Conducted Output Power (dBm)				EIRP(For ISEDC) (dBm)			
			2502.5 MHz	2593 MHz	2687.5 MHz	Limits	2502.5 MHz	2593 MHz	2687.5 MHz	Limits
5 MHz	QPSK	1#0	21.04	21.60	21.22	33.00	34.04	34.6	34.22	46
		1#12	21.52	21.36	21.52	33.00	34.52	34.36	34.52	46
		1#24	20.61	21.41	20.79	33.00	33.61	34.41	33.79	46
		12#0	20.30	21.10	20.74	33.00	33.3	34.1	33.74	46
		12#6	20.65	21.28	20.97	33.00	33.65	34.28	33.97	46
		12#11	20.58	21.08	21.03	33.00	33.58	34.08	34.03	46
		25#0	20.93	21.32	20.60	33.00	33.93	34.32	33.6	46
	16-QAM	1#0	21.06	21.33	20.61	33.00	34.06	34.33	33.61	46
		1#12	21.30	21.16	20.85	33.00	34.3	34.16	33.85	46
		1#24	20.69	21.02	20.21	33.00	33.69	34.02	33.21	46
		12#0	20.65	21.32	20.63	33.00	33.65	34.32	33.63	46
		12#6	20.37	20.71	20.26	33.00	33.37	33.71	33.26	46
		12#11	20.94	20.76	20.45	33.00	33.94	33.76	33.45	46
		25#0	20.58	20.28	19.87	33.00	33.58	33.28	32.87	46

Channel Bandwidth	Modulation	Resource Block & RB offset	Conducted Output Power (dBm)				EIRP(For ISEDC) (dBm)			
			2505 MHz	2593 MHz	2685 MHz	Limits	2505 MHz	2593 MHz	2685 MHz	Limits
10 MHz	QPSK	1#0	20.85	21.59	21.01	33.00	33.85	34.59	34.01	46
		1#24	20.75	21.41	21.41	33.00	33.75	34.41	34.41	46
		1#49	20.73	21.45	20.78	33.00	33.73	34.45	33.78	46
		25#0	20.46	21.75	20.52	33.00	33.46	34.75	33.52	46
		25#12	21.03	21.58	20.97	33.00	34.03	34.58	33.97	46
		25#24	20.66	21.29	21.03	33.00	33.66	34.29	34.03	46
		50#0	20.85	21.31	20.62	33.00	33.85	34.31	33.62	46
	16-QAM	1#0	20.83	21.14	20.77	33.00	33.83	34.14	33.77	46
		1#24	20.96	21.08	20.87	33.00	33.96	34.08	33.87	46
		1#49	20.74	20.91	20.48	33.00	33.74	33.91	33.48	46
		25#0	20.68	20.59	20.33	33.00	33.68	33.59	33.33	46
		25#12	20.83	20.46	20.47	33.00	33.83	33.46	33.47	46
		25#24	20.59	20.72	20.17	33.00	33.59	33.72	33.17	46
		50#0	20.79	20.30	19.86	33.00	33.79	33.3	32.86	46

Channel Bandwidth	Modulation	Resource Block & RB offset	Conducted Output Power (dBm)				EIRP(For ISEDC) (dBm)			
			2507.5 MHz	2593 MHz	2682.5 MHz	Limits	2507.5 MHz	2593 MHz	2682.5 MHz	Limits
15 MHz	QPSK	1#0	20.58	21.27	20.74	33.00	33.58	34.27	33.74	46
		1#37	20.68	21.12	20.95	33.00	33.68	34.12	33.95	46
		1#74	20.74	21.20	20.61	33.00	33.74	34.2	33.61	46
		36#0	20.99	21.35	20.51	33.00	33.99	34.35	33.51	46
		36#17	20.85	21.11	20.86	33.00	33.85	34.11	33.86	46
		36#35	20.52	21.07	20.75	33.00	33.52	34.07	33.75	46
		75#0	20.81	21.25	20.51	33.00	33.81	34.25	33.51	46
	16-QAM	1#0	20.52	20.79	20.21	33.00	33.52	33.79	33.21	46
		1#37	20.82	20.65	20.68	33.00	33.82	33.65	33.68	46
		1#74	20.73	20.54	20.01	33.00	33.73	33.54	33.01	46
		36#0	20.44	20.34	20.13	33.00	33.44	33.34	33.13	46
		36#17	20.96	20.48	19.68	33.00	33.96	33.48	32.68	46
		36#35	20.39	20.20	20.07	33.00	33.39	33.2	33.07	46
		75#0	20.70	20.25	19.73	33.00	33.7	33.25	32.73	46

Channel Bandwidth	Modulation	Resource Block & RB offset	Conducted Output Power (dBm)				EIRP(For ISEDC) (dBm)			
			2510 MHz	2593 MHz	2680 MHz	Limits	2510 MHz	2593 MHz	2680 MHz	Limits
20 MHz	QPSK	1#0	20.88	21.51	20.48	33.00	33.88	34.51	33.48	46
		1#49	20.65	21.62	20.64	33.00	33.65	34.62	33.64	46
		1#99	21.31	21.48	20.27	33.00	34.31	34.48	33.27	46
		50#0	21.13	21.20	20.59	33.00	34.13	34.2	33.59	46
		50#24	21.31	21.39	20.18	33.00	34.31	34.39	33.18	46
		50#49	21.25	21.65	20.43	33.00	34.25	34.65	33.43	46
		100#0	21.02	21.35	19.87	33.00	34.02	34.35	32.87	46
	16-QAM	1#0	20.76	21.44	21.04	33.00	33.76	34.44	34.04	46
		1#49	20.88	21.30	21.25	33.00	33.88	34.3	34.25	46
		1#99	21.24	21.24	20.88	33.00	34.24	34.24	33.88	46
		50#0	21.84	21.23	20.93	33.00	34.84	34.23	33.93	46
		50#24	21.45	21.43	21.22	33.00	34.45	34.43	34.22	46
		50#49	21.11	21.52	20.77	33.00	34.11	34.52	33.77	46
		100#0	20.92	20.31	20.68	33.00	33.92	33.31	33.68	46

Note: the device is fixed subscriber equipment.

Band 41, Carrier Aggregation:

Bandwidth	Frequency (MHz)	Modulation	PCC RB	PCC RB	SCC1 RB	SCC1 RB	Conducted Power (dBm)		E.I.R.P. (For ISEDC) (dBm)	
			Size	Offset	Size	Offset	Reading	Limits	Reading	Limits
5MHz + 20MHz	2503.3+ 2514	QPSK	1	24	1	0	21.18	33.00	34.18	46.00
			1	12	1	49	21.46	33.00	34.46	46.00
			25	0	100	0	21.54	33.00	34.54	46.00
		16-QAM	1	24	1	0	21.05	33.00	34.05	46.00
			1	12	1	49	21.26	33.00	34.26	46.00
			25	0	100	0	21.40	33.00	34.4	46.00
5MHz + 20MHz	2583.8+ 2595.5	QPSK	1	24	1	0	20.94	33.00	33.94	46.00
			1	12	1	49	20.26	33.00	33.26	46.00
			25	0	100	0	22.93	33.00	35.93	46.00
		16-QAM	1	24	1	0	20.98	33.00	33.98	46.00
			1	12	1	49	20.31	33.00	33.31	46.00
			25	0	100	0	22.83	33.00	35.83	46.00
5MHz + 20MHz	2668.3+ 2680	QPSK	1	24	1	0	31.39	33.00	44.39	46.00
			1	12	1	49	20.78	33.00	33.78	46.00
			25	0	100	0	23.29	33.00	36.29	46.00
		16-QAM	1	24	1	0	21.38	33.00	34.38	46.00
			1	12	1	49	20.71	33.00	33.71	46.00
			25	0	100	0	23.29	33.00	36.29	46.00
20MHz+ 5MHz	2514.0 + 2521.7	QPSK	1	0	1	0	20.83	33.00	33.83	46.00
			1	0	1	24	20.96	33.00	33.96	46.00
			1	0	25	0	22.13	33.00	35.13	46.00
			1	99	1	0	21.15	33.00	34.15	46.00
			1	99	1	24	21.40	33.00	34.4	46.00
			1	99	25	0	22.26	33.00	35.26	46.00
			100	0	1	0	21.36	33.00	34.36	46.00
			100	0	1	24	21.35	33.00	34.35	46.00
			100	0	25	0	21.45	33.00	34.45	46.00
		16-QAM	1	0	1	0	21.25	33.00	34.25	46.00
			1	0	1	24	21.41	33.00	34.41	46.00
			1	0	25	0	22.07	33.00	35.07	46.00
			1	99	1	0	21.63	33.00	34.63	46.00
			1	99	1	24	21.77	33.00	34.77	46.00
			1	99	25	0	22.21	33.00	35.21	46.00
			100	0	1	0	21.20	33.00	34.2	46.00
			100	0	1	24	21.22	33.00	34.22	46.00
			100	0	25	0	21.36	33.00	34.36	46.00

Bandwidth	Frequency (MHz)	Modulation	PCC RB	PCC RB	SCC1 RB	SCC1 RB	Conducted Power (dBm)		E.I.R.P. (For ISEDC) (dBm)	
			Size	Offset	Size	Offset	Reading	Limits	Reading	Limits
20MHz+ 5MHz	2590.5+ 2602.2	QPSK	1	0	1	0	21.62	33.00	34.62	46.00
			1	0	1	24	21.48	33.00	34.48	46.00
			1	0	25	0	22.01	33.00	35.01	46.00
			1	99	1	0	21.96	33.00	34.96	46.00
			1	99	1	24	21.88	33.00	34.88	46.00
			1	99	25	0	22.34	33.00	35.34	46.00
			100	0	1	0	21.73	33.00	34.73	46.00
			100	0	1	24	21.75	33.00	34.75	46.00
		16-QAM	100	0	25	0	22.36	33.00	35.36	46.00
			1	0	1	0	21.23	33.00	34.23	46.00
			1	0	1	24	21.12	33.00	34.12	46.00
			1	0	25	0	22.01	33.00	35.01	46.00
			1	99	1	0	21.58	33.00	34.58	46.00
			1	99	1	24	21.49	33.00	34.49	46.00
			1	99	25	0	22.33	33.00	35.33	46.00
			100	0	1	0	21.62	33.00	34.62	46.00
20MHz+ 5MHz	2675.0+ 2686.7	QPSK	100	0	1	24	21.61	33.00	34.61	46.00
			100	0	25	0	22.24	33.00	35.24	46.00
			1	0	1	0	20.57	33.00	33.57	46.00
			1	0	1	24	20.38	33.00	33.38	46.00
			1	0	25	0	22.44	33.00	35.44	46.00
			1	99	1	0	20.87	33.00	33.87	46.00
			1	99	1	24	20.38	33.00	33.38	46.00
			1	99	25	0	22.46	33.00	35.46	46.00
		16-QAM	100	0	1	0	21.42	33.00	34.42	46.00
			100	0	1	24	21.41	33.00	34.41	46.00
			100	0	25	0	22.64	33.00	35.64	46.00
			1	0	1	0	20.66	33.00	33.66	46.00
			1	0	1	24	20.47	33.00	33.47	46.00
			1	0	25	0	22.32	33.00	35.32	46.00
			1	99	1	0	20.99	33.00	33.99	46.00
			1	99	1	24	20.87	33.00	33.87	46.00
10MHz+ 20MHz	2505.5+ 2519.9	QPSK	1	99	25	0	22.45	33.00	35.45	46.00
			100	0	1	0	21.41	33.00	34.41	46.00
			100	0	1	24	21.42	33.00	34.42	46.00
		16-QAM	100	0	25	0	22.56	33.00	35.56	46.00
			1	49	1	0	21.07	33.00	34.07	46.00
			1	24	1	49	21.43	33.00	34.43	46.00
16-QAM	50	0	100	0	21.33	33.00	34.33	46.00		
	1	49	1	0	21.01	33.00	34.01	46.00		
	1	24	1	49	21.39	33.00	34.39	46.00		
16-QAM	50	0	100	0	21.25	33.00	34.25	46.00		

Bandwidth	Frequency (MHz)	Modulation	PCC RB	PCC RB	SCC1 RB	SCC1 RB	Conducted Power (dBm)		E.I.R.P. (For ISEDC) (dBm)	
			Size	Offset	Size	Offset	Reading	Limits	Reading	Limits
10MHz+ 20MHz	2583.6+ 2598	QPSK	1	49	1	0	21.45	33.00	34.45	46.00
			1	24	1	49	21.74	33.00	34.74	46.00
			50	0	100	0	21.75	33.00	34.75	46.00
		16-QAM	1	49	1	0	21.43	33.00	34.43	46.00
			1	24	1	49	21.31	33.00	34.31	46.00
			50	0	100	0	21.69	33.00	34.69	46.00
10MHz+ 20MHz	2665.6+ 2680	QPSK	1	49	1	0	20.85	33.00	33.85	46.00
			1	24	1	49	20.88	33.00	33.88	46.00
			50	0	100	0	21.63	33.00	34.63	46.00
		16-QAM	1	49	1	0	20.79	33.00	33.79	46.00
			1	24	1	49	20.85	33.00	33.85	46.00
			50	0	100	0	21.58	33.00	34.58	46.00
20MHz+ 10MHz	2510.0+ 2524.4	QPSK	1	99	1	0	21.44	33.00	34.44	46.00
			100	0	50	0	21.66	33.00	34.66	46.00
		16-QAM	1	99	1	0	21.58	33.00	34.58	46.00
			100	0	50	0	21.64	33.00	34.64	46.00
20MHz+ 10MHz	2588.1 + 2602.5	QPSK	1	99	1	0	20.69	33.00	33.69	46.00
			100	0	50	0	22.42	33.00	35.42	46.00
		16-QAM	1	99	1	0	20.93	33.00	33.93	46.00
			100	0	50	0	22.35	33.00	35.35	46.00
20MHz+ 10MHz	2670.1+ 2684.5	QPSK	1	99	1	0	20.65	33.00	33.65	46.00
			100	0	50	0	22.92	33.00	35.92	46.00
		16-QAM	1	99	1	0	20.91	33.00	33.91	46.00
			100	0	50	0	22.83	33.00	35.83	46.00
15MHz+ 15MHz	2507.5+ 2522.5	QPSK	1	74	1	0	21.43	33.00	34.43	46.00
			75	0	75	0	21.47	33.00	34.47	46.00
		16-QAM	1	74	1	0	21.52	33.00	34.52	46.00
			75	0	75	0	21.54	33.00	34.54	46.00
15MHz+ 15MHz	2585.5+ 2600.5	QPSK	1	74	1	0	20.84	33.00	33.84	46.00
			75	0	75	0	21.91	33.00	34.91	46.00
		16-QAM	1	74	1	0	21.02	33.00	34.02	46.00
			75	0	75	0	21.78	33.00	34.78	46.00
15MHz+ 15MHz	2667.5+ 2682.5	QPSK	1	74	1	0	20.77	33.00	33.77	46.00
			75	0	75	0	21.87	33.00	34.87	46.00
		16-QAM	1	74	1	0	20.73	33.00	33.73	46.00
			75	0	75	0	21.77	33.00	34.77	46.00
15MHz+ 20MHz	2507.8+ 2524.9	QPSK	1	74	1	0	20.85	33.00	33.85	46.00
			1	36	1	49	21.28	33.00	34.28	46.00
			75	0	100	0	21.47	33.00	34.47	46.00
		16QAM	1	74	1	0	21.61	33.00	34.61	46.00
			1	36	1	49	21.81	33.00	34.81	46.00
			75	0	100	0	21.49	33.00	34.49	46.00

Bandwidth	Frequency (MHz)	Modulation	PCC RB	PCC RB	SCC1 RB	SCC1 RB	Conducted Power (dBm)		E.I.R.P. (For ISEDC) (dBm)	
			Size	Offset	Size	Offset	Reading	Limits	Reading	Limits
15MHz+ 20MHz	2583.3 + 2600.4	QPSK	1	74	1	0	20.64	33.00	33.64	46.00
			1	36	1	49	20.48	33.00	33.48	46.00
			75	0	100	0	21.81	33.00	34.81	46.00
		16-QAM	1	74	1	0	20.86	33.00	33.86	46.00
			1	36	1	49	21.34	33.00	34.34	46.00
			75	0	100	0	21.83	33.00	34.83	46.00
15MHz+ 20MHz	2662.9 + 2680.0	QPSK	1	74	1	0	20.58	33.00	33.58	46.00
			1	36	1	49	20.66	33.00	33.66	46.00
			75	0	100	0	21.77	33.00	34.77	46.00
		16-QAM	1	74	1	0	21.11	33.00	34.11	46.00
			1	36	1	49	21.13	33.00	34.13	46.00
			75	0	100	0	21.72	33.00	34.72	46.00
20MHz+ 15MHz	2510.0+ 2527.1	QPSK	1	99	1	0	20.96	33.00	33.96	46.00
			100	0	75	0	21.52	33.00	34.52	46.00
		16-QAM	1	99	1	0	21.18	33.00	34.18	46.00
			100	0	75	0	21.43	33.00	34.43	46.00
20MHz+ 15MHz	2585.6+ 2602.7	QPSK	1	99	1	0	20.81	33.00	33.81	46.00
			100	0	75	0	22.54	33.00	35.54	46.00
		16-QAM	1	99	1	0	21.15	33.00	34.15	46.00
			100	0	75	0	22.44	33.00	35.44	46.00
20MHz+ 15MHz	2665.1+ 2682.2	QPSK	1	99	1	0	20.67	33.00	33.67	46.00
			100	0	75	0	22.79	33.00	35.79	46.00
		16-QAM	1	99	1	0	20.89	33.00	33.89	46.00
			100	0	75	0	22.56	33.00	35.56	46.00
20MHz+ 20MHz	2510.0+ 2529.8	QPSK	1	0	1	0	21.22	33.00	34.22	46.00
			1	0	1	99	21.45	33.00	34.45	46.00
			1	0	100	0	21.87	33.00	34.87	46.00
			1	49	1	49	21.86	33.00	34.86	46.00
			1	99	1	0	21.63	33.00	34.63	46.00
			1	99	1	99	21.97	33.00	34.97	46.00
			1	99	100	0	22.14	33.00	35.14	46.00
			100	0	1	0	21.20	33.00	34.2	46.00
			100	0	1	99	21.19	33.00	34.19	46.00
		16-QAM	100	0	100	0	21.42	33.00	34.42	46.00
			1	0	1	0	21.36	33.00	34.36	46.00
			1	0	1	99	21.65	33.00	34.65	46.00
			1	0	100	0	22.07	33.00	35.07	46.00
			1	49	1	49	22.13	33.00	35.13	46.00
			1	99	1	0	21.78	33.00	34.78	46.00
			1	99	1	99	22.14	33.00	35.14	46.00
			1	99	100	0	22.26	33.00	35.26	46.00
			100	0	1	0	21.16	33.00	34.16	46.00
100	0	1	99	21.15	33.00	34.15	46.00			
100	0	100	0	21.39	33.00	34.39	46.00			

Bandwidth	Frequency (MHz)	Modulation	PCC RB	PCC RB	SCC1 RB	SCC1 RB	Conducted Power (dBm)		E.I.R.P. (For ISEDC)	
			Size	Offset	Size	Offset	Reading	Limits	Reading	Limits
20MHz+ 20MHz	2585.1+ 2604.9	QPSK	1	0	1	0	20.98	33.00	33.98	46.00
			1	0	1	99	20.07	33.00	33.07	46.00
			1	0	100	0	21.64	33.00	34.64	46.00
			1	49	1	49	21.01	33.00	34.01	46.00
			1	99	1	0	21.27	33.00	34.27	46.00
			1	99	1	99	20.57	33.00	33.57	46.00
			1	99	100	0	21.94	33.00	34.94	46.00
			100	0	1	0	21.94	33.00	34.94	46.00
			100	0	1	99	21.88	33.00	34.88	46.00
		100	0	100	0	22.44	33.00	35.44	46.00	
		16-QAM	1	0	1	0	20.88	33.00	33.88	46.00
			1	0	1	99	20.03	33.00	33.03	46.00
			1	0	100	0	21.53	33.00	34.53	46.00
			1	49	1	49	20.92	33.00	33.92	46.00
			1	99	1	0	21.21	33.00	34.21	46.00
			1	99	1	99	20.52	33.00	33.52	46.00
			1	99	100	0	21.78	33.00	34.78	46.00
			100	0	1	0	21.80	33.00	34.8	46.00
100	0		1	99	21.79	33.00	34.79	46.00		
100	0	100	0	22.34	33.00	35.34	46.00			
20MHz+ 20MHz	2660.2+ 2680.0	QPSK	1	0	1	0	21.77	33.00	34.77	46.00
			1	0	1	99	20.83	33.00	33.83	46.00
			1	0	100	0	21.96	33.00	34.96	46.00
			1	49	1	49	22.03	33.00	35.03	46.00
			1	99	1	0	22.15	33.00	35.15	46.00
			1	99	1	99	21.35	33.00	34.35	46.00
			1	99	100	0	22.26	33.00	35.26	46.00
			100	0	1	0	21.54	33.00	34.54	46.00
			100	0	1	99	21.51	33.00	34.51	46.00
		100	0	100	0	22.67	33.00	35.67	46.00	
		16-QAM	1	0	1	0	21.90	33.00	34.9	46.00
			1	0	1	99	21.15	33.00	34.15	46.00
			1	0	100	0	21.92	33.00	34.92	46.00
			1	49	1	49	22.14	33.00	35.14	46.00
			1	99	1	0	22.22	33.00	35.22	46.00
			1	99	1	99	21.56	33.00	34.56	46.00
			1	99	100	0	22.48	33.00	35.48	46.00
			100	0	1	0	21.49	33.00	34.49	46.00
100	0		1	99	21.48	33.00	34.48	46.00		
100	0	100	0	22.53	33.00	35.53	46.00			

Note: the device is fixed subscriber equipment.

PAR, Band 41:

Bandwidth	Frequency (MHz)	Modulation	PAR (dB)	Limit (dB)
5MHz+20MHz	2583.80+2595.50	QPSK	6.36	13.00
		16-QAM	6.85	13.00
10MHz+20MHz	2583.60+2598.00	QPSK	6.13	13.00
		16-QAM	6.03	13.00
15MHz+15MHz	2585.50+2600.50	QPSK	6.24	13.00
		16-QAM	6.35	13.00
15MHz+20MHz	2583.30+2600.40	QPSK	6.19	13.00
		16-QAM	6.26	13.00
20MHz+5MHz	2590.50+2602.20	QPSK	6.67	13.00
		16-QAM	6.35	13.00
20MHz+10MHz	2588.10+2602.50	QPSK	6.63	13.00
		16-QAM	6.75	13.00
20MHz+15MHz	2585.60+2602.70	QPSK	6.55	13.00
		16-QAM	6.41	13.00
20MHz+20MHz	2583.10+2602.90	QPSK	6.17	13.00
		16-QAM	6.28	13.00

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

FCC §2.1049 & §27.53, RSS-199 § 4.2, RSS-Gen § 6.6 - OCCUPIED BANDWIDTH

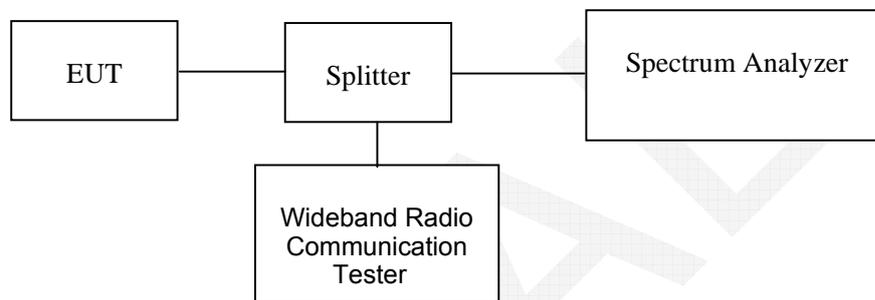
Applicable Standards

FCC 47 §2.1049 and §27.53. RSS-199 § 4.2

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
Rohde & Schwarz	Signal Analyzer	FSIQ26	831929/005	2016-09-21	2017-09-20
Unknown	RF Cable	Unknown	C-2	Each Time	/
R&S	Wideband Radio Communication Tester	CMW500	106891	2016-11-23	2017-11-23

* **Statement of Traceability:** BACL(Chengdu) attests that all of the calibrations on the equipment items listed above were traceable to NIM or to another internationally recognized National Metrology Institute (NMI), and were compliant with the NIST HB 150-2016 Normative Annex B "Implementation of traceability policy in accredited laboratories".

Test Data

Environmental Conditions

Temperature:	27~28.1 °C
Relative Humidity:	41~57 %
ATM Pressure:	99.9~100.1 kPa

The testing was performed by Lorin Bian from 2017-05-20 to 2017-07-04.

Test Result: Compliant

**Single Carrier
Band 7:**

Test Modulation	Test Bandwidth	Test Channel	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	5M	M	4.549	4.990
	10M		8.978	9.790
	15M		13.587	15.471
	20M		18.036	20.070
16-QAM	5M		4.549	5.030
	10M		8.978	9.830
	15M		13.587	15.291
	20M		18.116	20.150

Note: the Bandwidth is more than 1MHz.

Band 40(2305-2320MHz):

Test Modulation	Test Bandwidth	Test Channel	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	5M	M	4.529	5.025
	10M		8.978	9.684
	15M		13.587	15.286
16-QAM	5M		4.549	5.025
	10M		8.978	9.765
	15M		13.587	15.286

Band 40(2345-2360MHz):

Test Modulation	Test Bandwidth	Test Channel	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	5M	M	4.549	5.030
	10M		8.978	9.810
	15M		13.647	16.052
16-QAM	5M		4.549	5.030
	10M		8.978	9.770
	15M		13.587	15.451

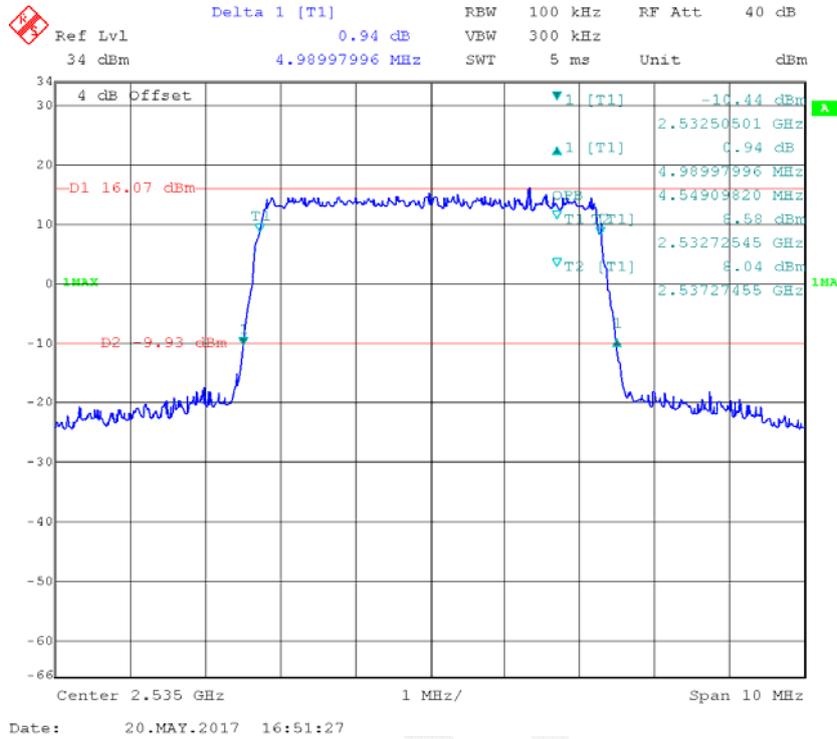
Band 41:

Test Modulation	Test Bandwidth	Test Channel	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	5M	M	4.529	5.090
	10M		8.978	9.870
	15M		13.587	15.210
	20M		18.036	19.770
16-QAM	5M		4.529	5.010
	10M		8.978	9.870
	15M		13.647	15.270
	20M		18.036	19.770

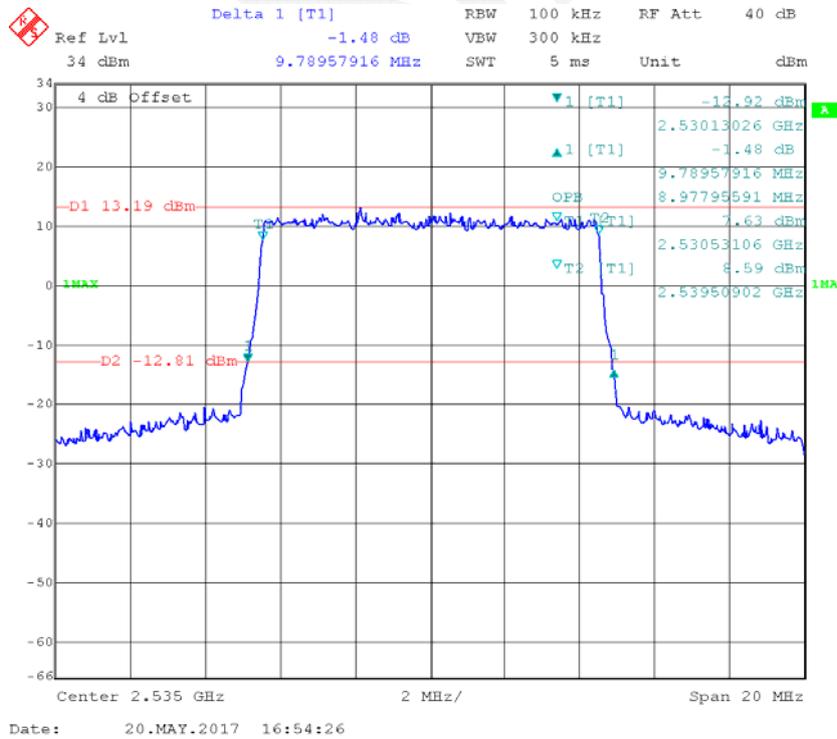
Note: the Bandwidth is more than 1MHz.

Band 7:

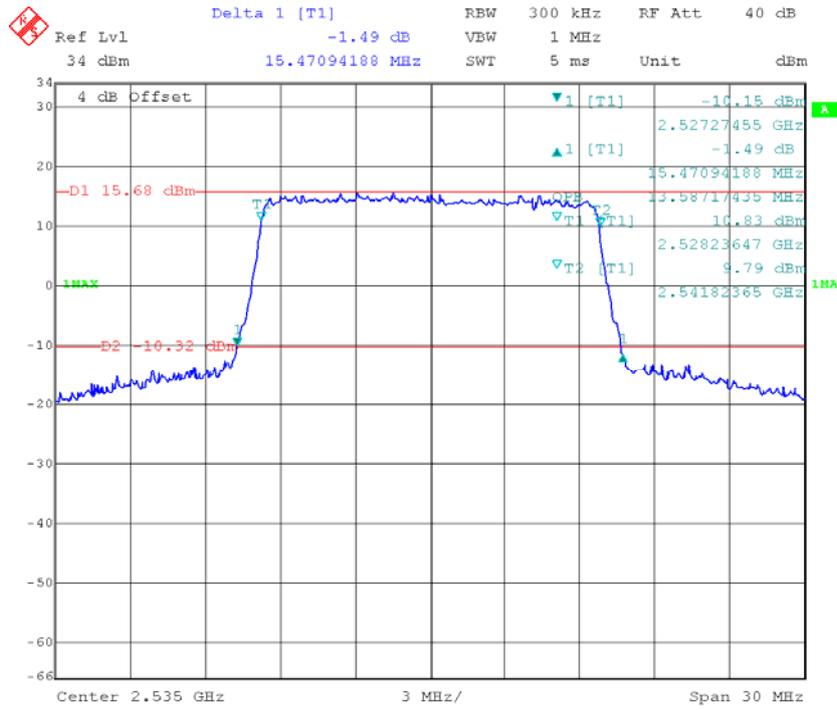
QPSK_5MHz_RB25



QPSK_10MHz_RB50

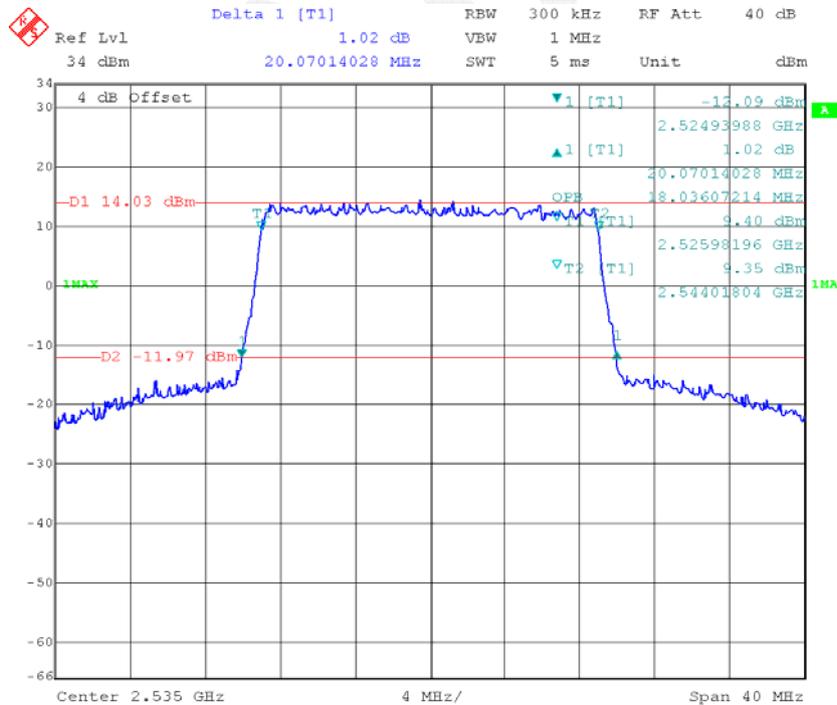


QPSK_15MHz_RB75



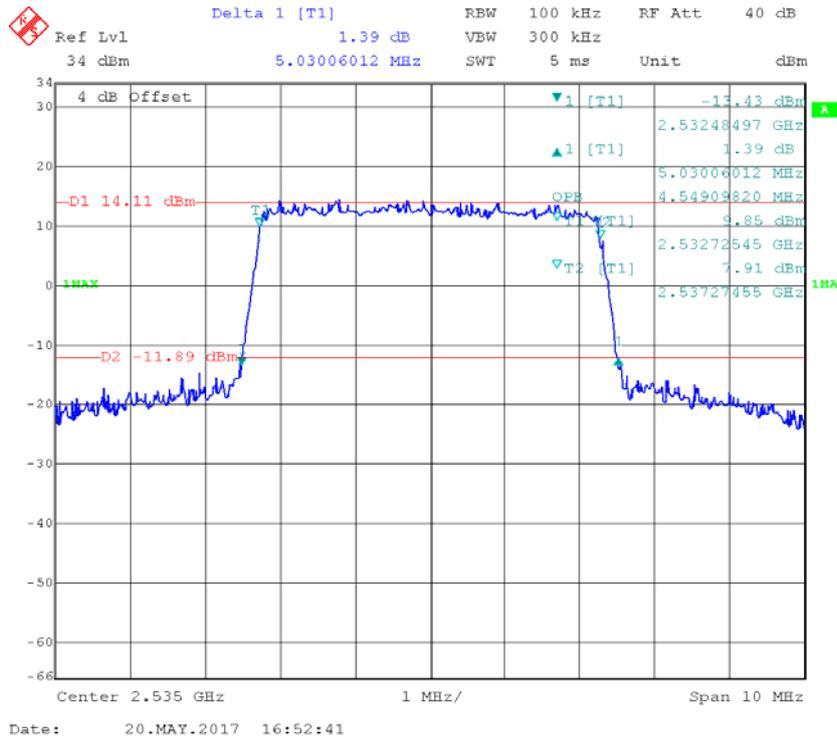
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QPSK_20MHz_RB100

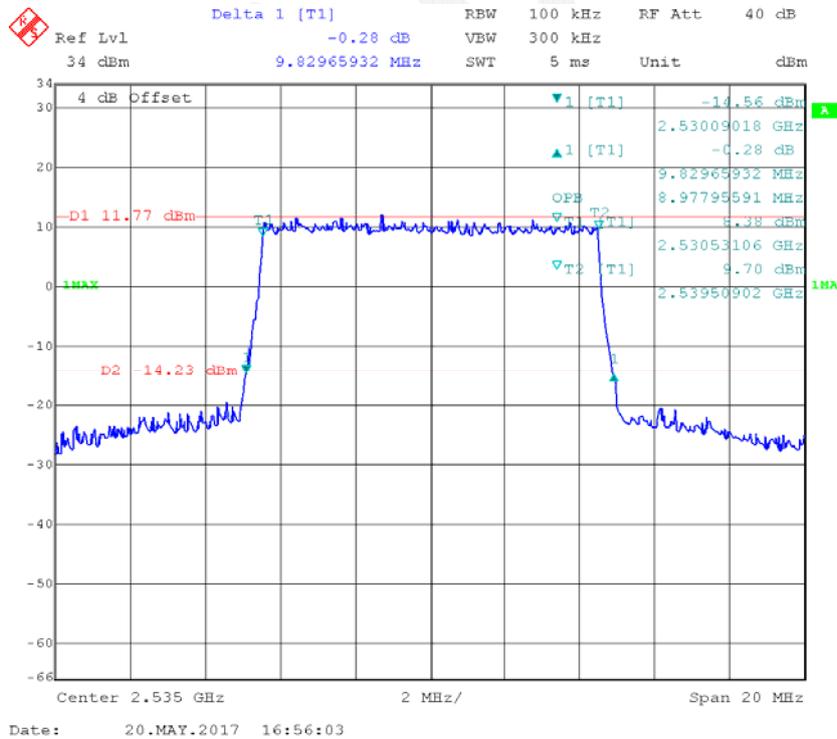


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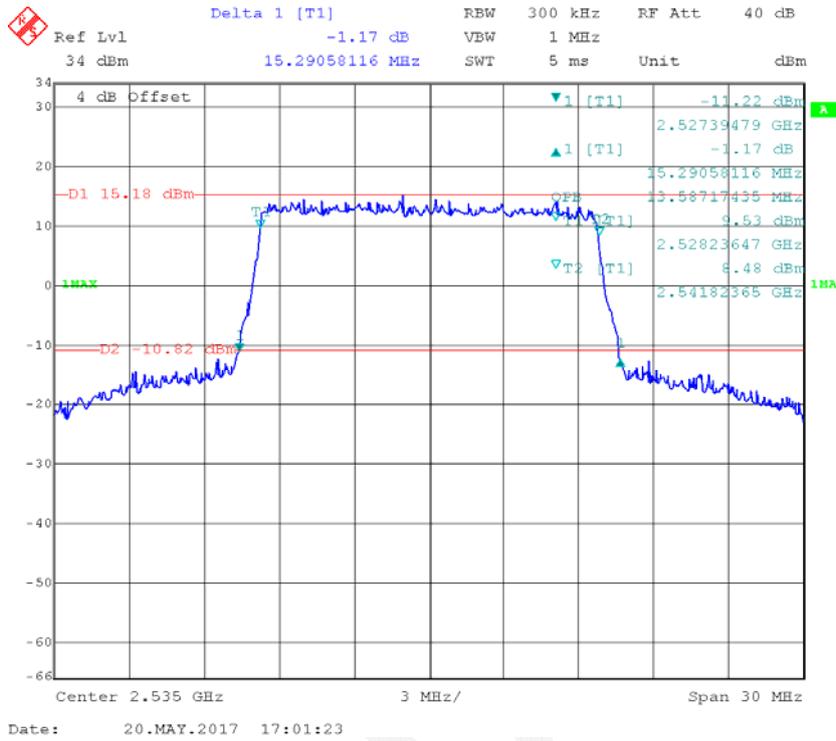
16-QAM_5MHz_RB25



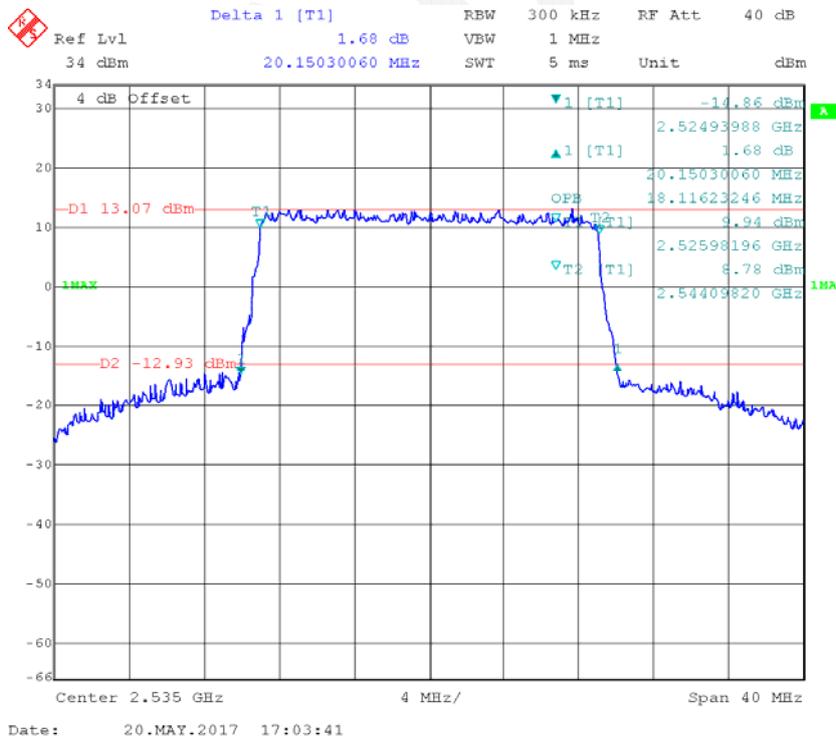
16-QAM_10MHz_RB50



16-QAM_15MHz_RB75

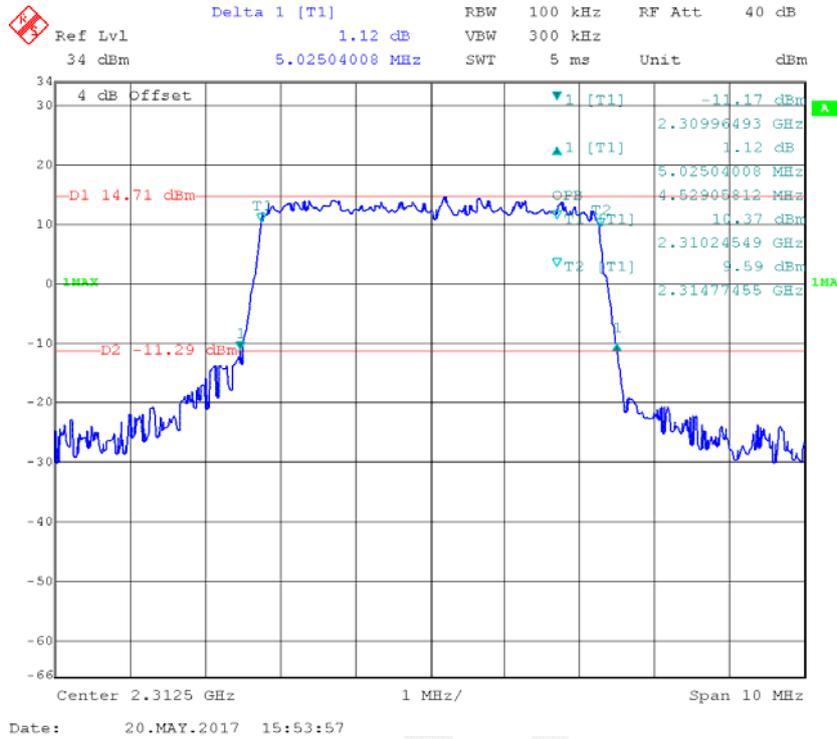


16-QAM_20MHz_RB100

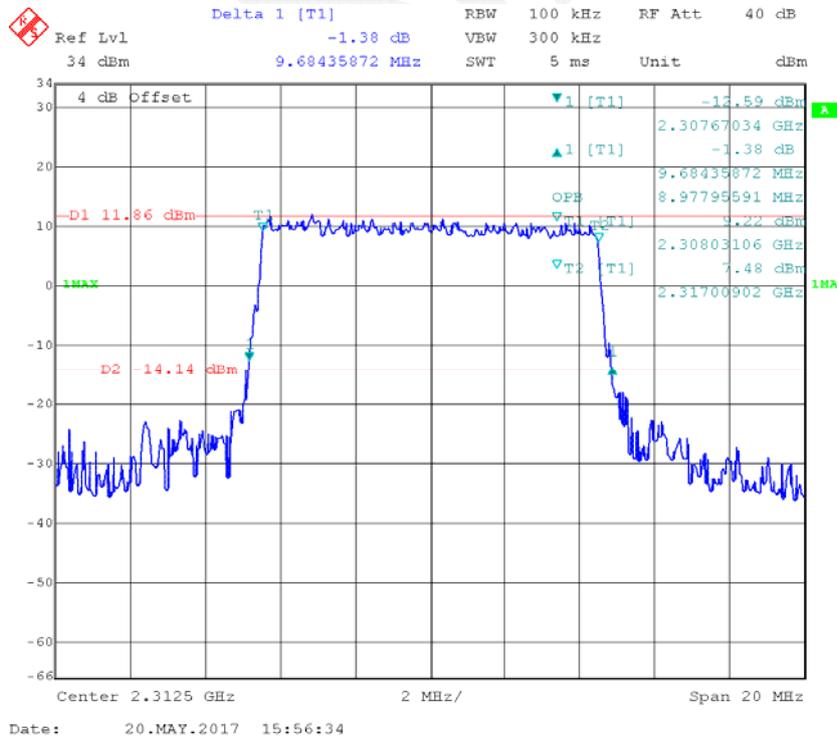


Band 40(2305MHz-2320MHz):

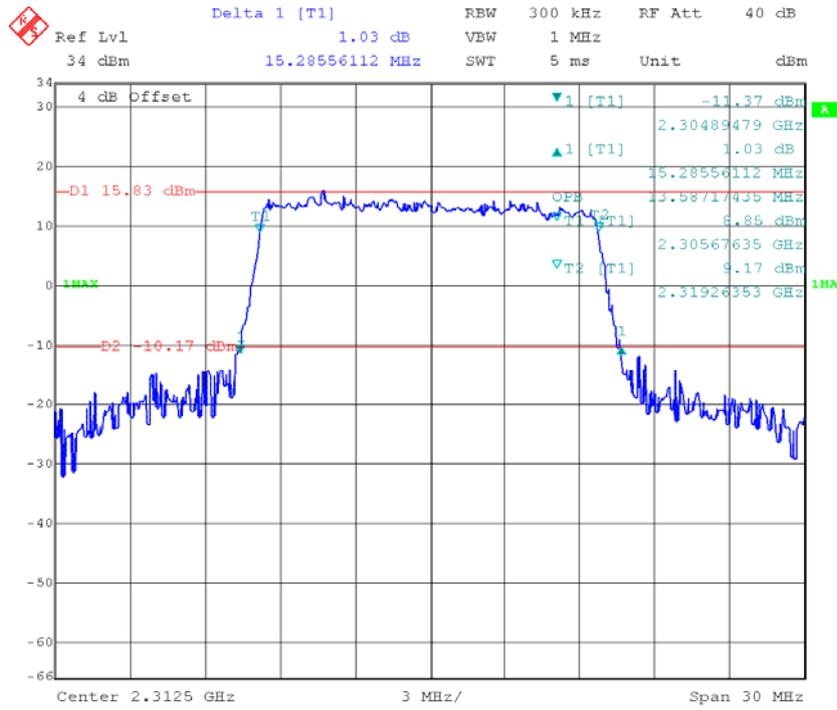
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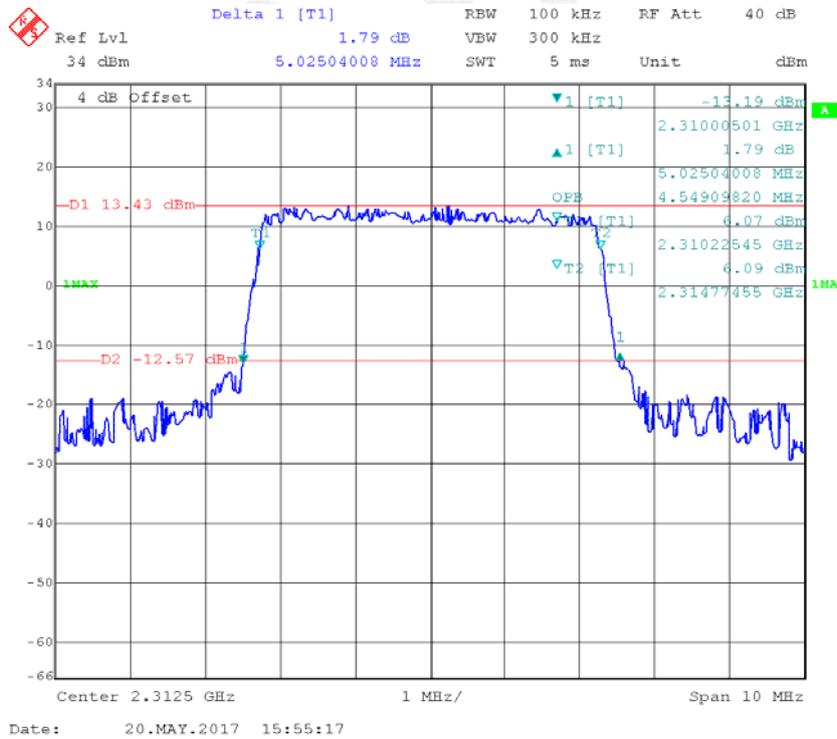
QPSK_10MHz_RB50



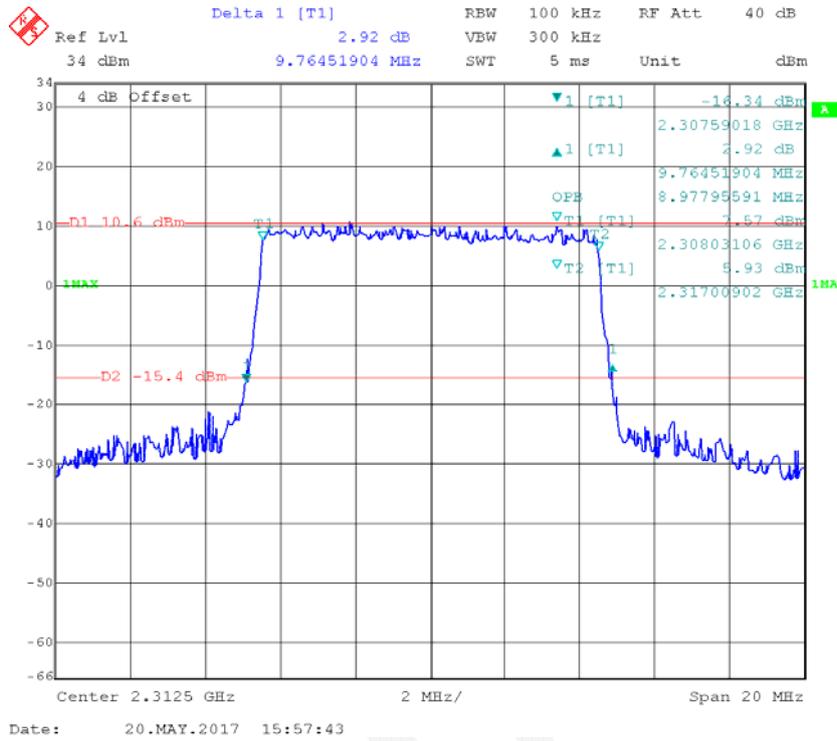
QPSK_15MHz_RB75



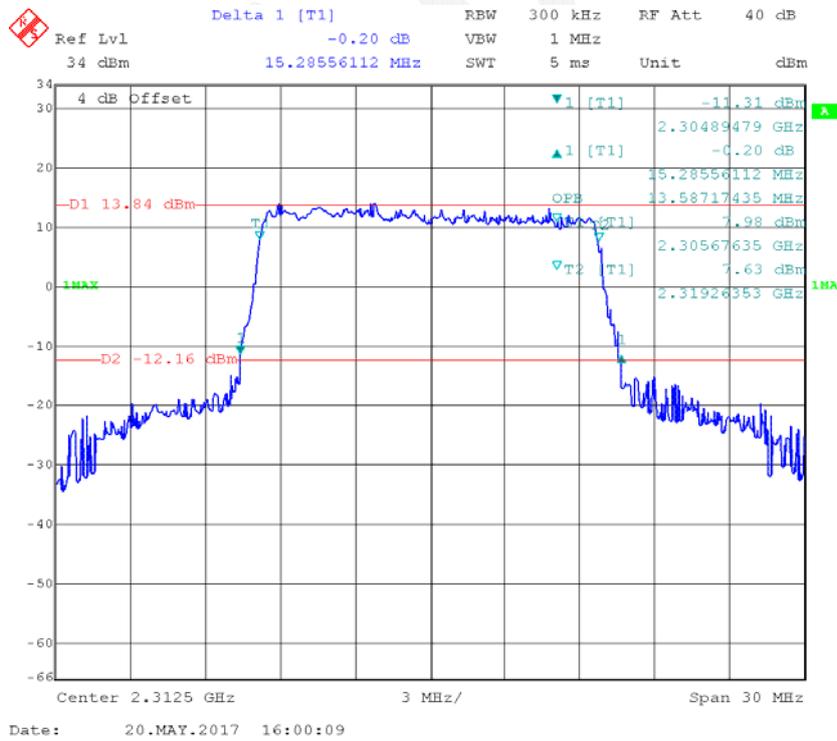
16-QAM_5MHz_RB25



16-QAM_10MHz_RB50

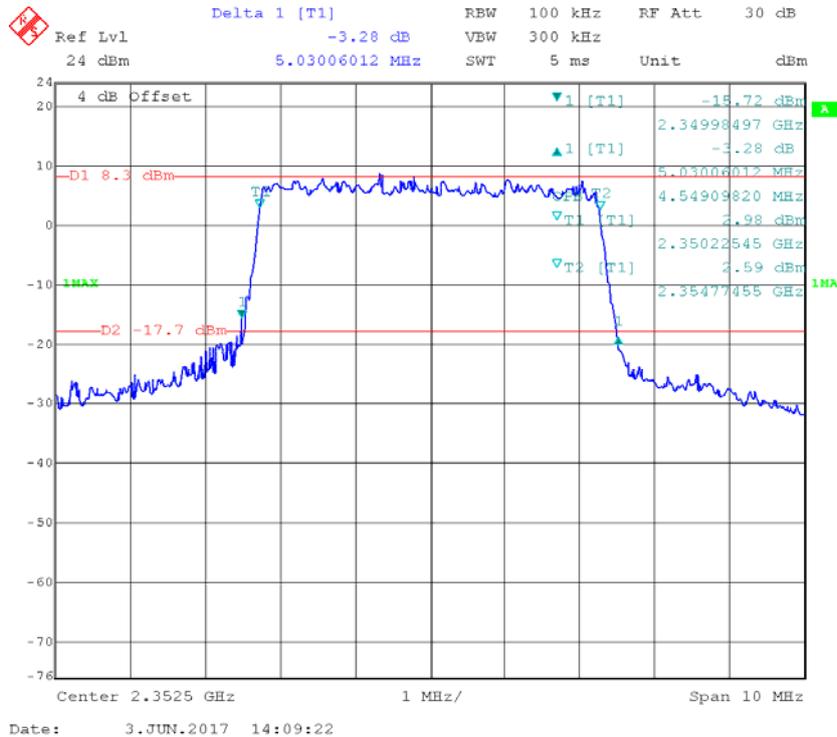


16-QAM_15MHz_RB75

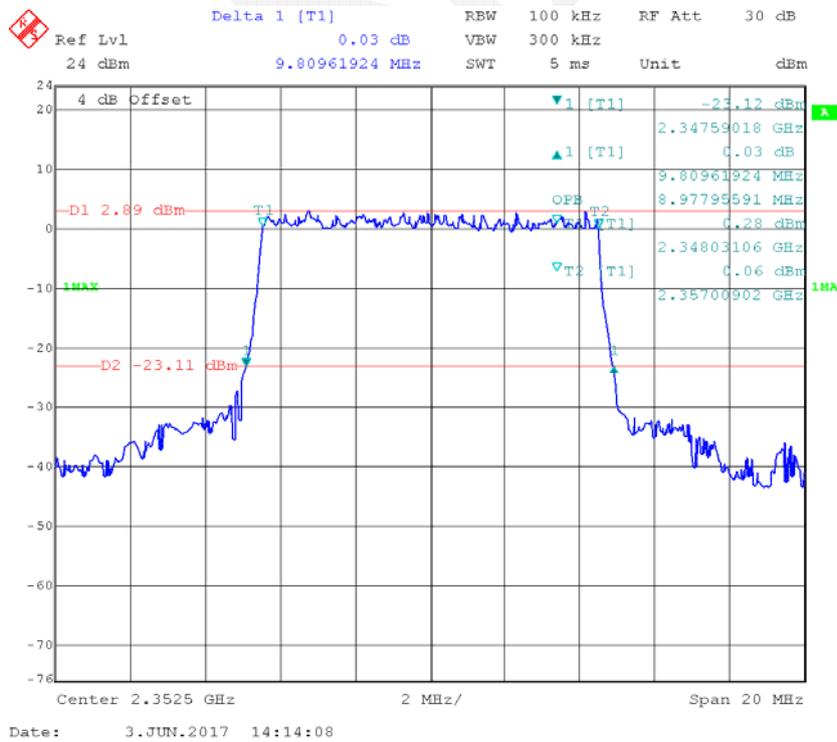


Band 40(2345MHz-2360MHz):

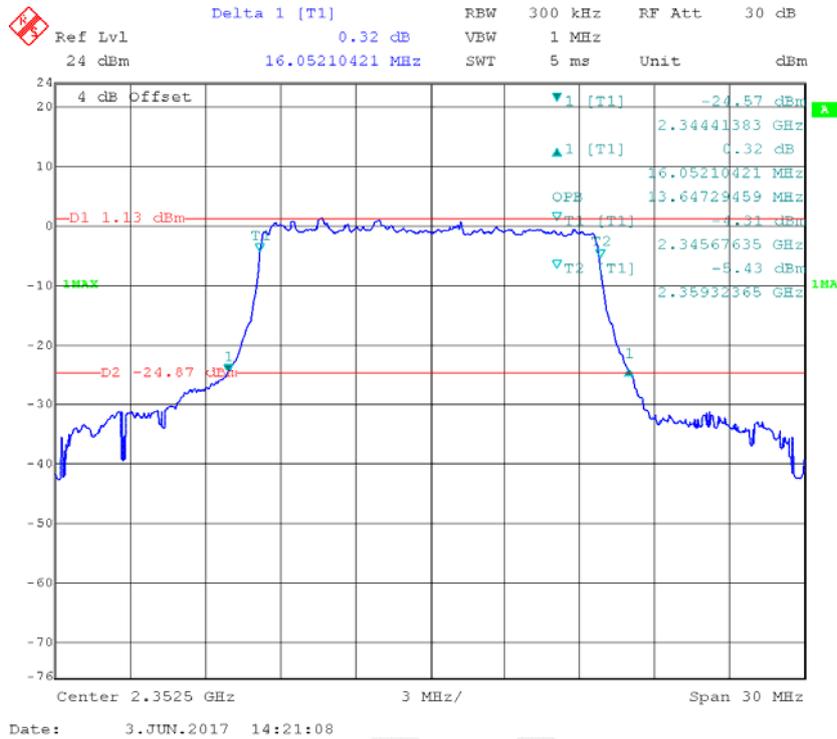
QPSK_5MHz_RB25



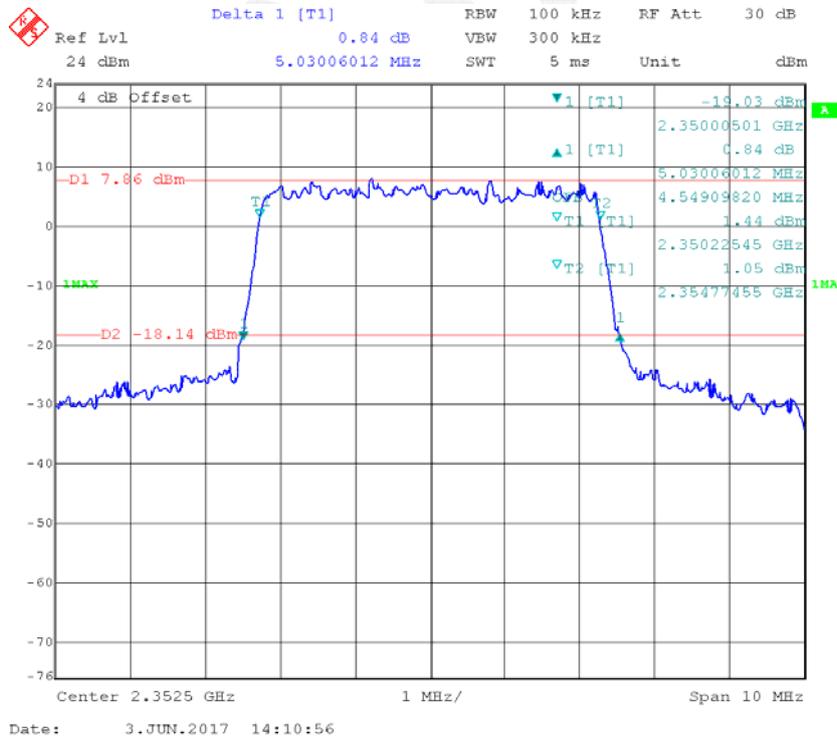
QPSK_10MHz_RB50



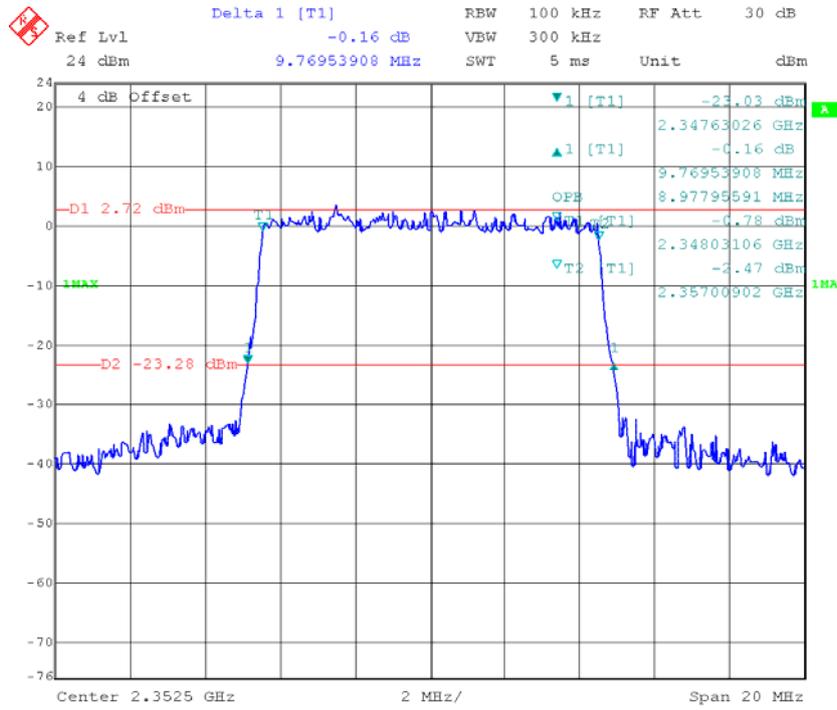
QPSK_15MHz_RB75



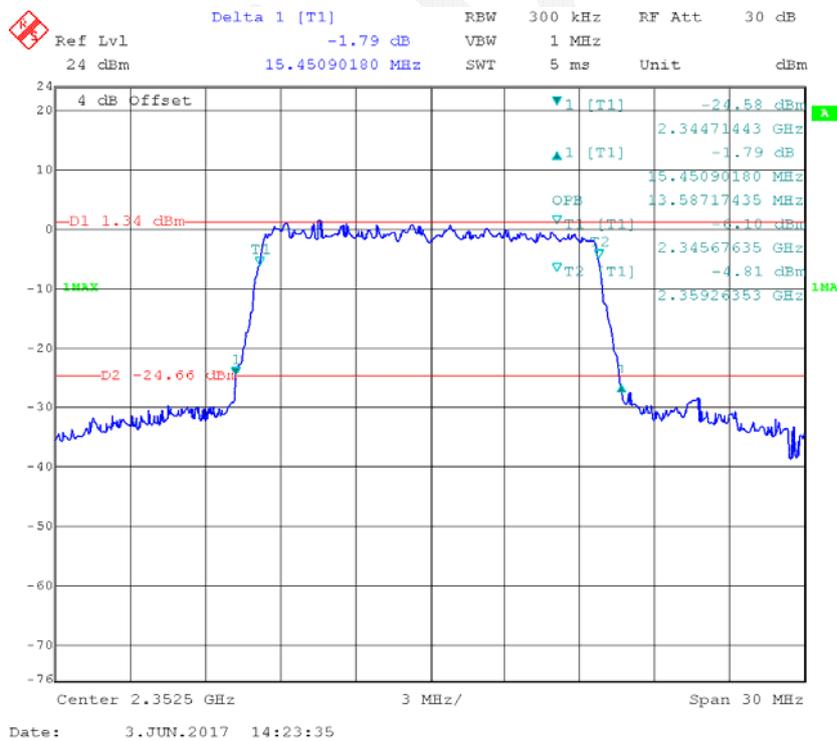
16-QAM_5MHz_RB25



16-QAM_10MHz_RB50

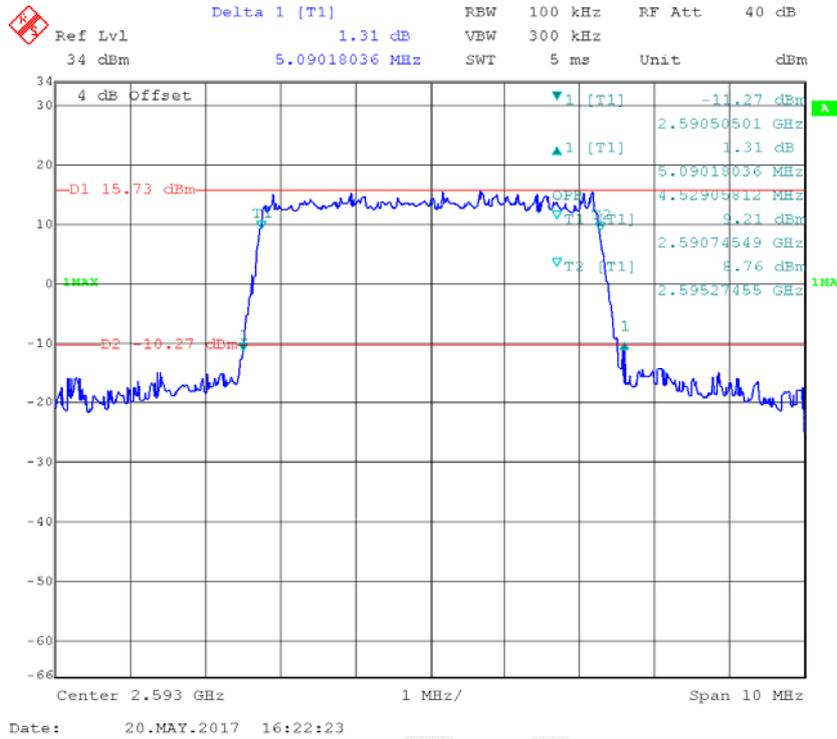


16-QAM_15MHz_RB75

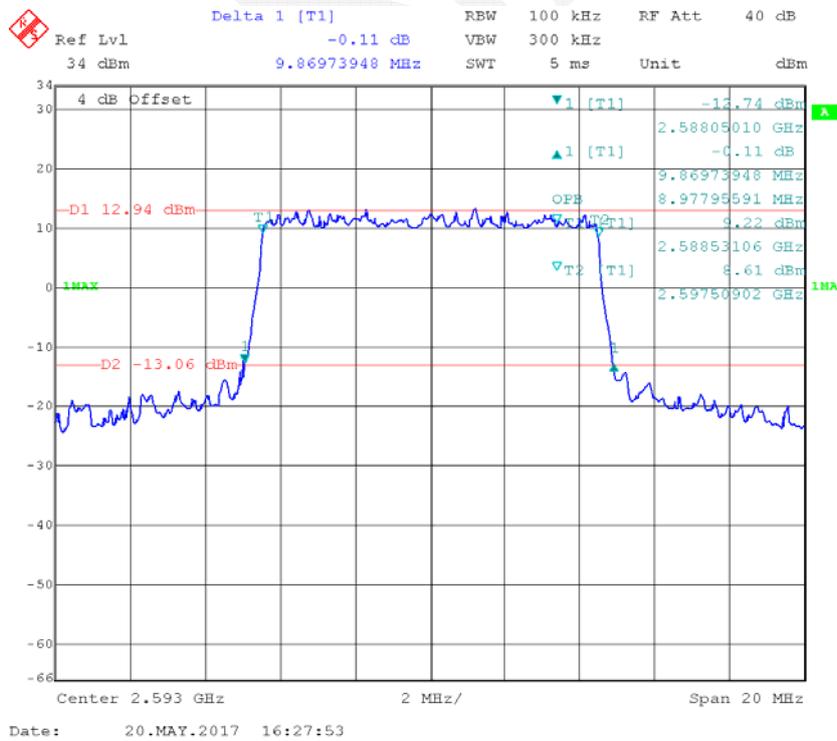


Band 41:

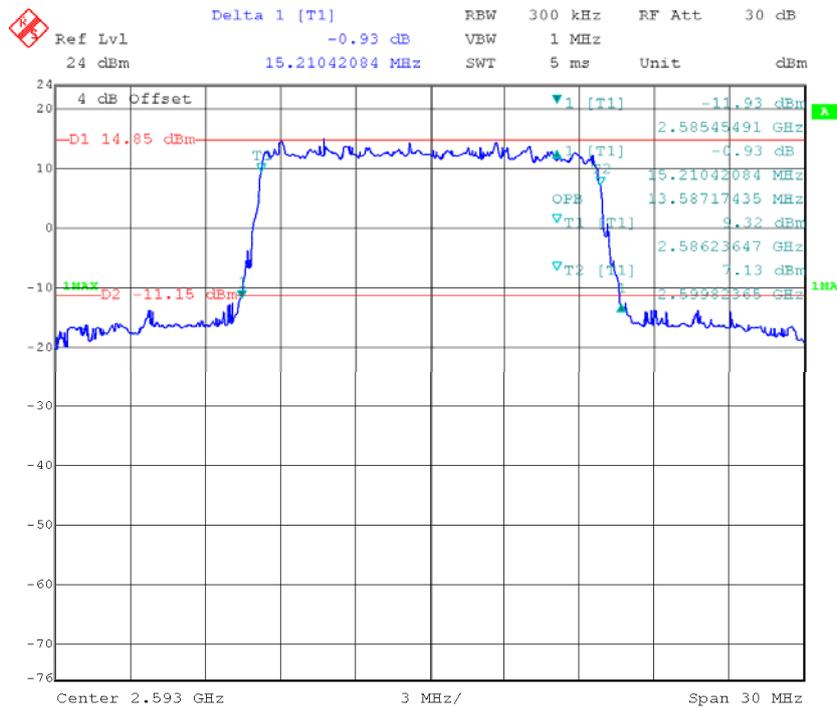
QPSK_5MHz_RB25



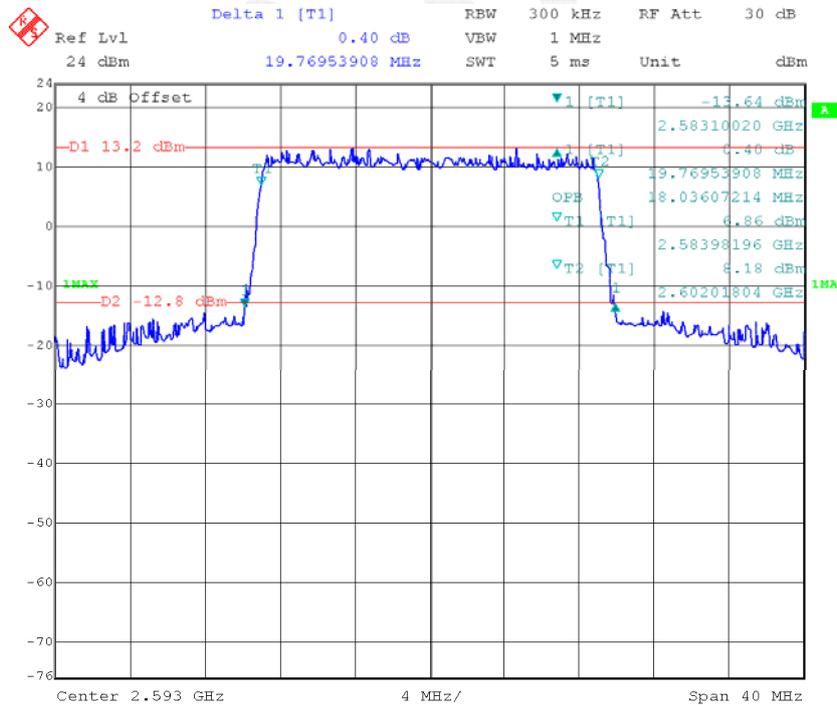
QPSK_10MHz_RB50



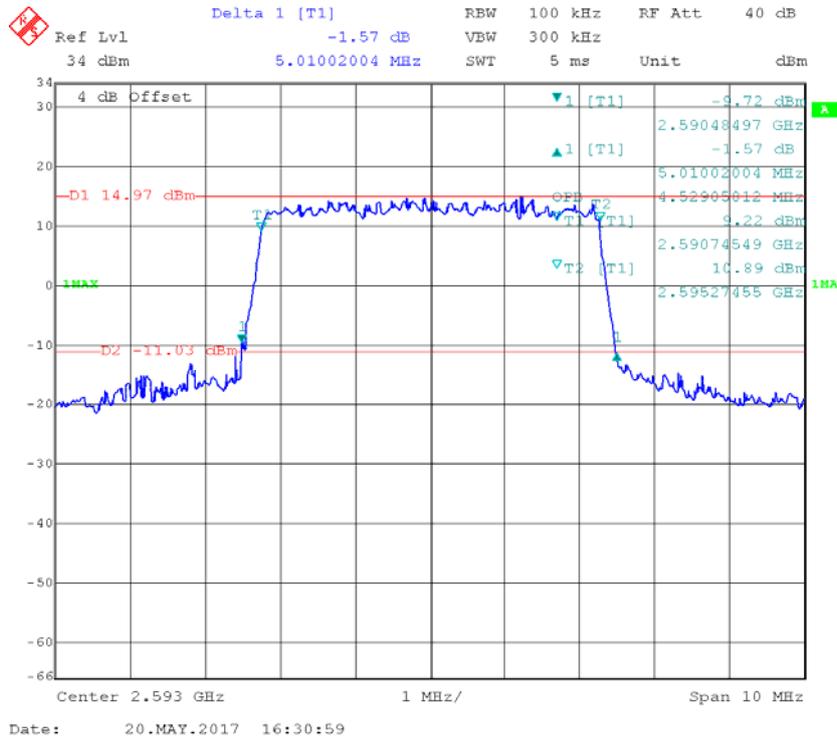
QPSK_15MHz_RB75



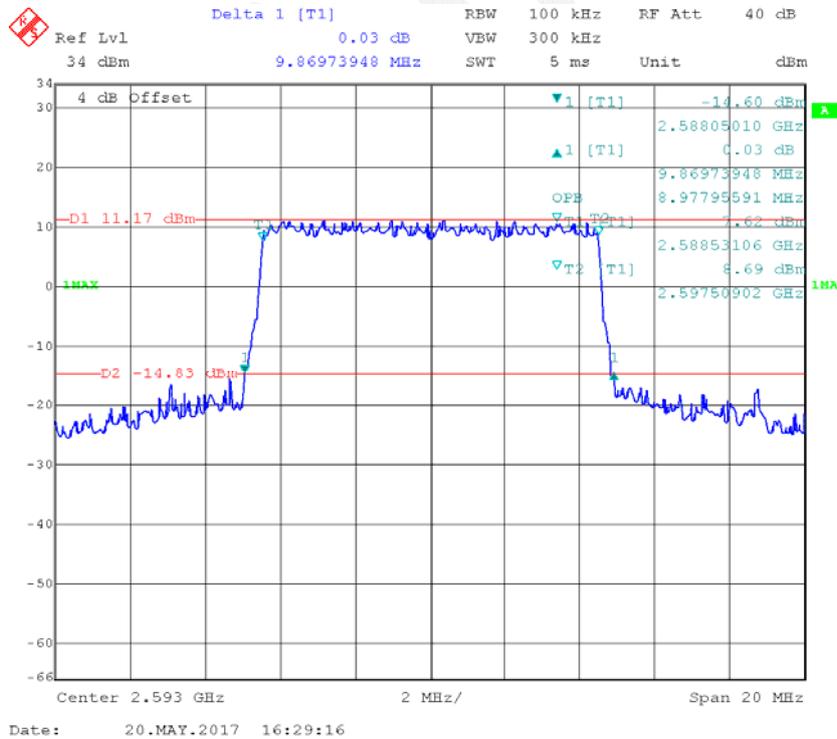
QPSK_20MHz_RB100



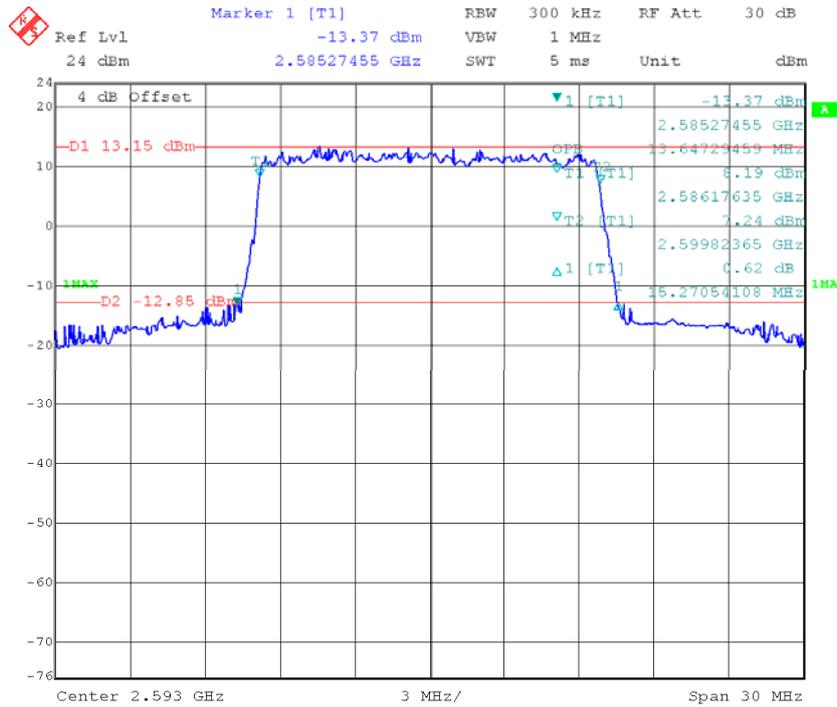
16-QAM_5MHz_RB25



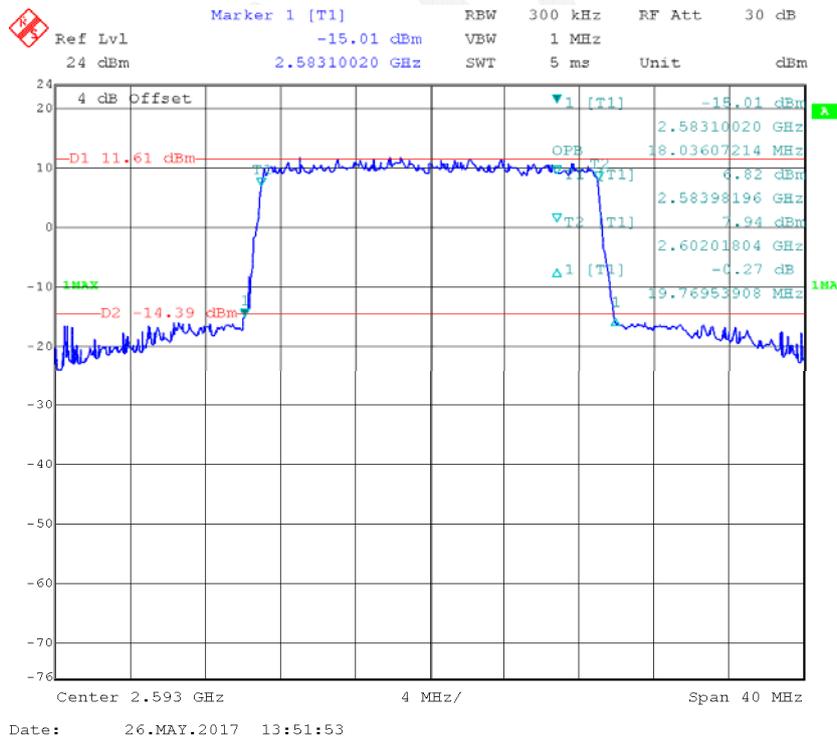
16-QAM_10MHz_RB50



16-QAM_15MHz_RB75



16-QAM_20MHz_RB100



**Carrier Aggregation:
Band 7:**

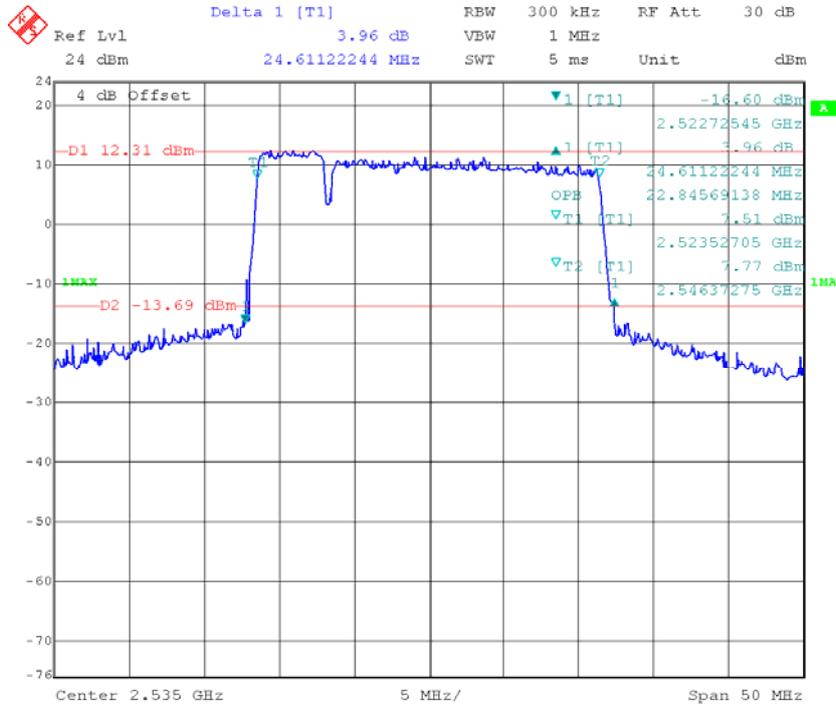
Bandwidth (MHz)	Frequency (MHz)	Modulation	PCC RB	PCC RB	SCC1 RB	SCC1 RB	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
			Size	Offset	Size	Offset		
20+5	2535.00	QPSK	100	0	25	0	22.85	24.55
		16-QAM	100	0	25	0	22.85	24.85
5	2544.20	QPSK	25	0	0	0	4.53	5.01
			1	0	0	0	0.26	0.45
		16-QAM	25	0	0	0	4.55	5.03
			1	0	0	0	0.28	0.47
20+20	2535.00	QPSK	100	0	100	0	37.84	40.67
		16-QAM	100	0	100	0	37.84	41.09
20	2544.90	QPSK	100	0	0	0	18.04	19.77
			1	0	0	0	0.24	0.50
		16-QAM	100	0	0	0	18.04	19.69
			1	0	0	0	0.32	0.54
5+20	2535.00	QPSK	25	0	100	0	22.85	24.61
		16-QAM	25	0	100	0	22.95	24.61
10+20	2535.00	QPSK	50	0	100	0	27.78	29.37
		16-QAM	50	0	100	0	27.78	29.61
20+10	2535.00	QPSK	100	0	50	0	27.90	29.41
		16-QAM	100	0	50	0	27.90	29.65
15+15	2535.00	QPSK	75	0	75	0	28.38	29.97
		16-QAM	75	0	75	0	28.38	30.21
15+20	2535.00	QPSK	75	0	100	0	33.11	35.95
		16-QAM	75	0	100	0	32.97	35.95
20+15	2535.00	QPSK	100	0	75	0	32.97	36.07
		16-QAM	100	0	75	0	32.97	35.93

Band 41:

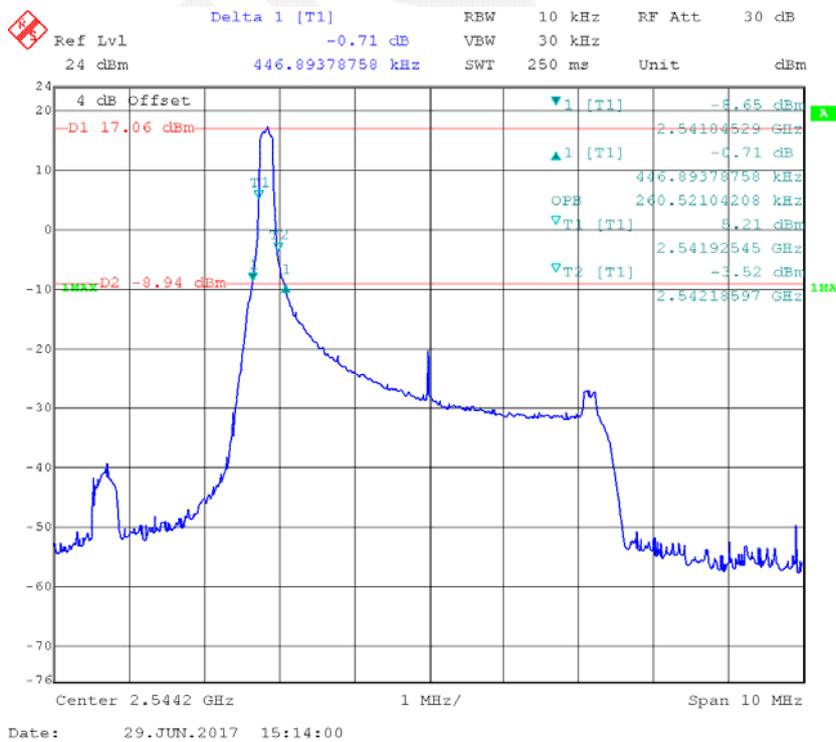
Bandwidth (MHz)	Frequency (MHz)	Modulation	PCC RB	PCC RB	SCC1 RB	SCC1 RB	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
			Size	Offset	Size	Offset		
20+5	2593.00	QPSK	100	0	25	0	22.95	24.25
		16-QAM	100	0	25	0	22.95	24.56
5	2602.20	QPSK	25	0	0	0	4.55	5.46
			1	0	0	0	0.30	0.43
		16-QAM	25	0	0	0	4.55	5.42
			1	0	0	0	0.34	0.45
20+20	2593.00	QPSK	100	0	100	0	38.16	52.42
		16-QAM	100	0	100	0	38.00	56.43
20	2583.10	QPSK	100	0	0	0	18.04	20.70
			1	0	0	0	0.28	0.47
		16-QAM	100	0	0	0	18.12	21.02
			1	0	0	0	0.40	0.56
5+20	2593.00	QPSK	25	0	100	0	22.85	23.95
		16-QAM	25	0	100	0	22.85	24.05
10+20	2593.00	QPSK	50	0	100	0	27.90	29.35
		16-QAM	50	0	100	0	27.90	29.46
20+10	2593.00	QPSK	100	0	50	0	27.78	29.46
		16-QAM	100	0	50	0	27.78	30.18
15+15	2593.00	QPSK	75	0	75	0	28.26	29.70
		16-QAM	75	0	75	0	28.26	29.82
15+20	2593.00	QPSK	75	0	100	0	38.27	38.63
		16-QAM	75	0	100	0	33.25	46.76
20+15	2593.00	QPSK	100	0	75	0	33.11	39.61
		16-QAM	100	0	75	0	33.11	48.17

**Carrier Aggregation:
Band 7:**

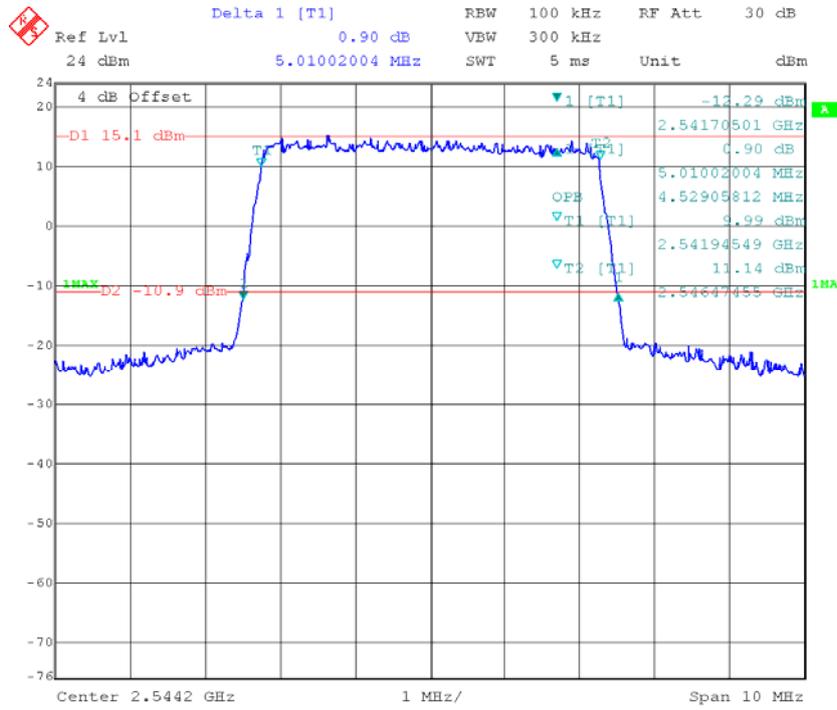
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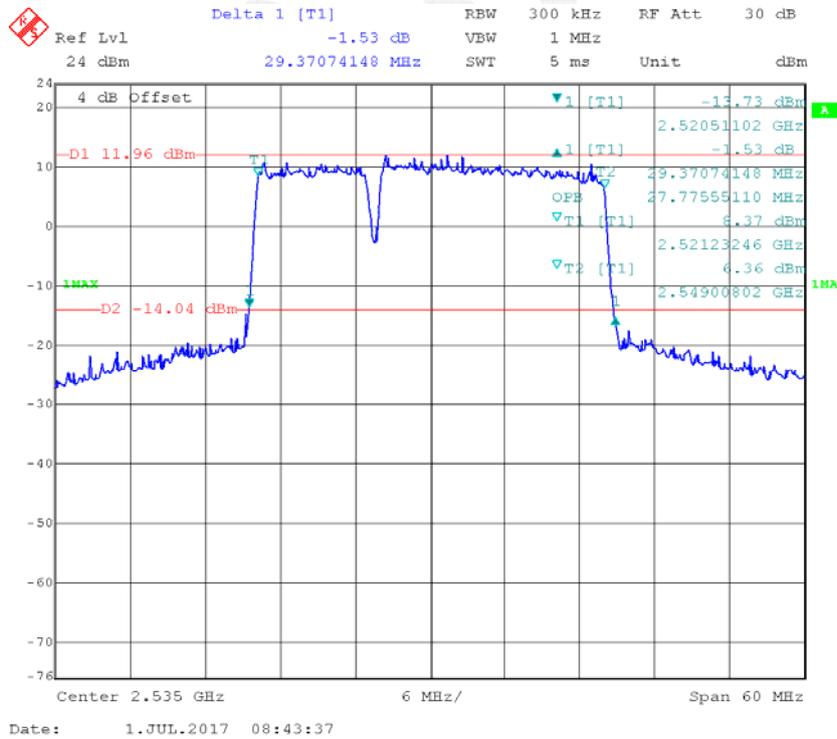
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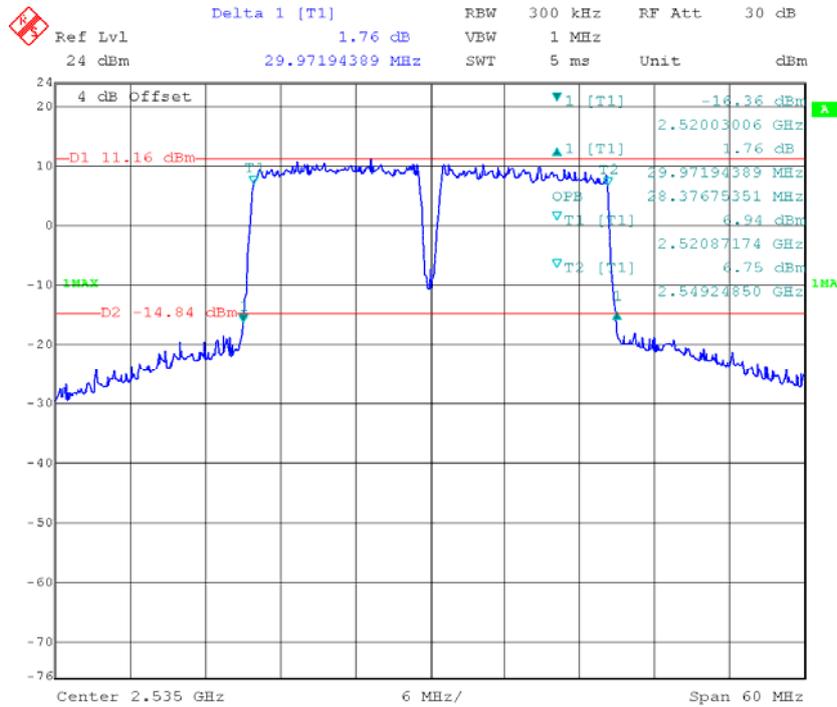
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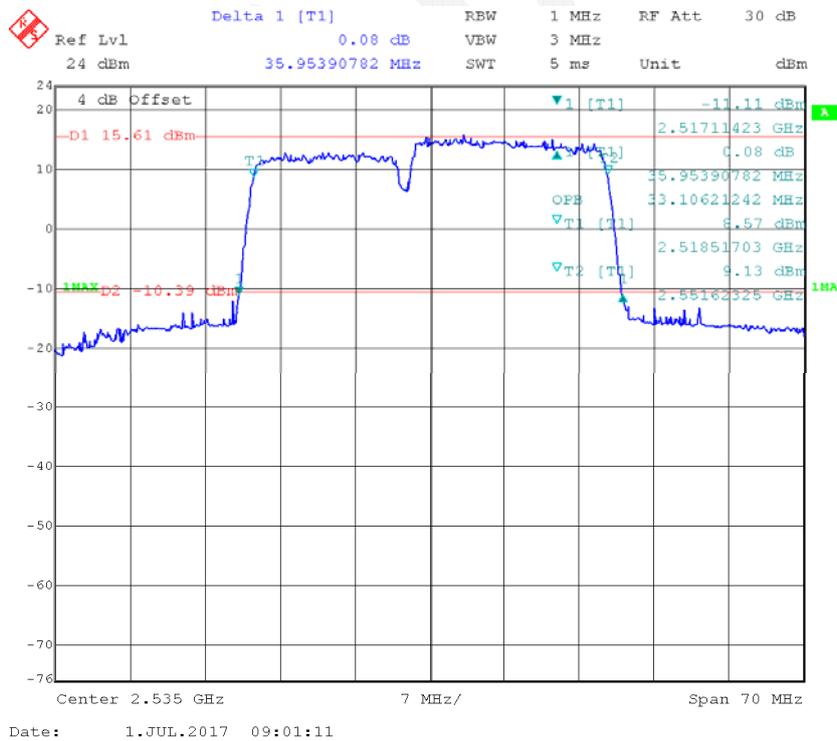
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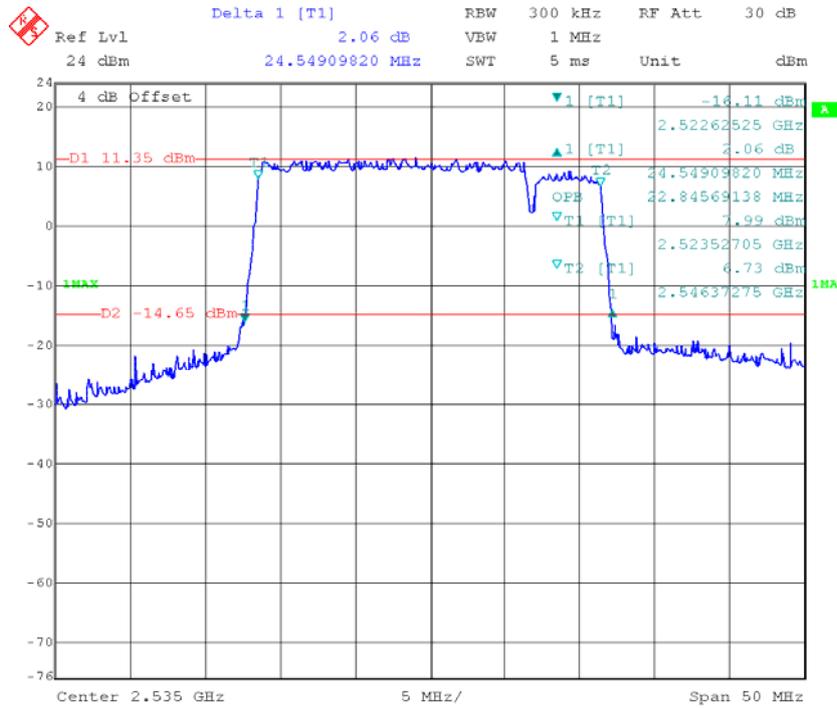
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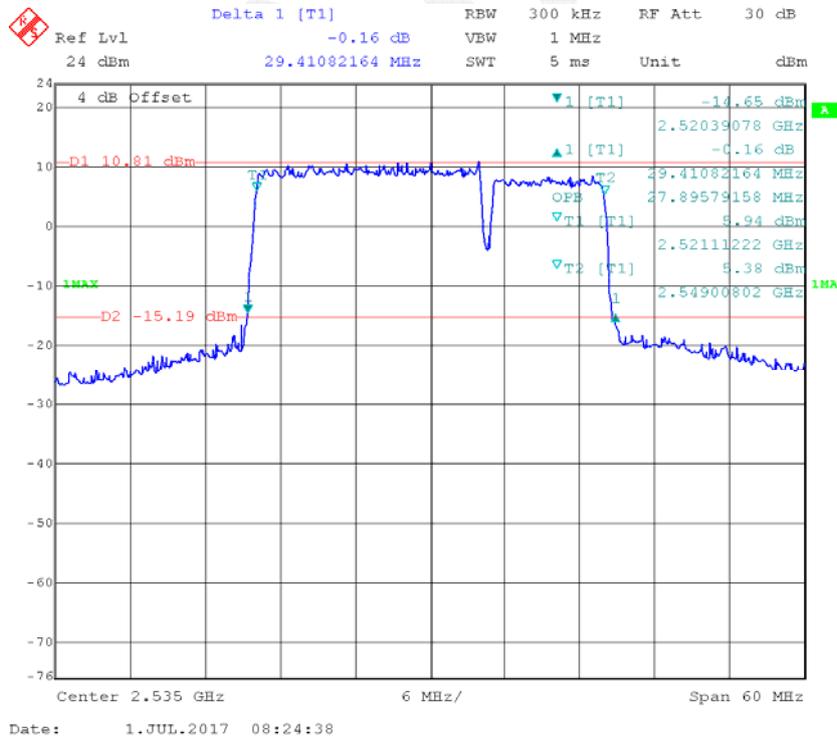
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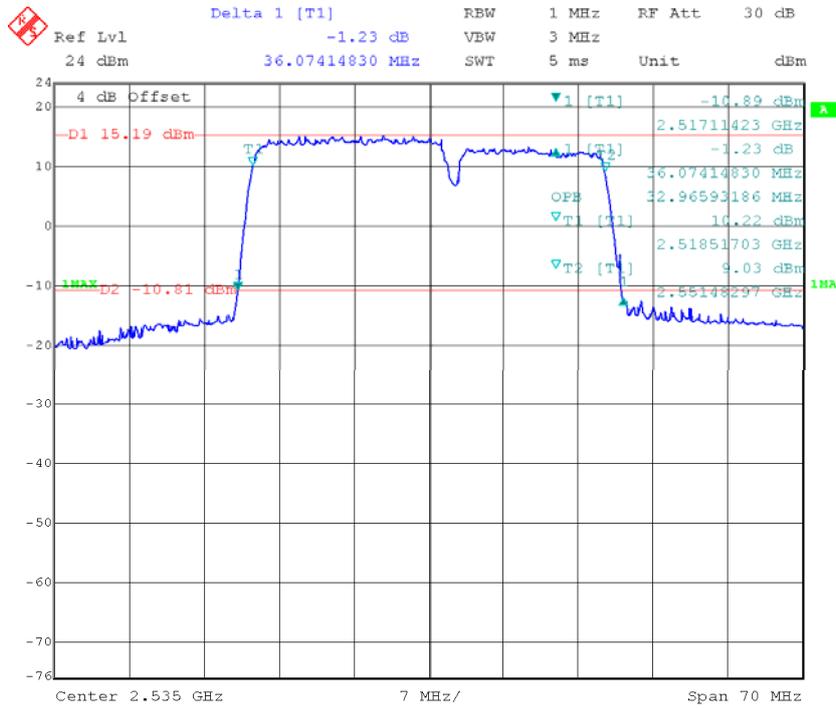
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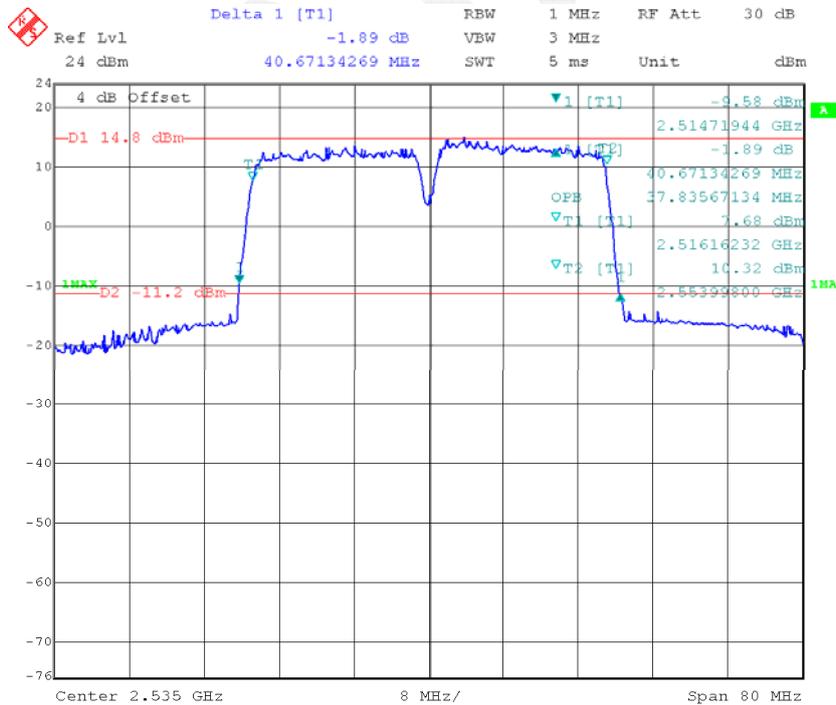


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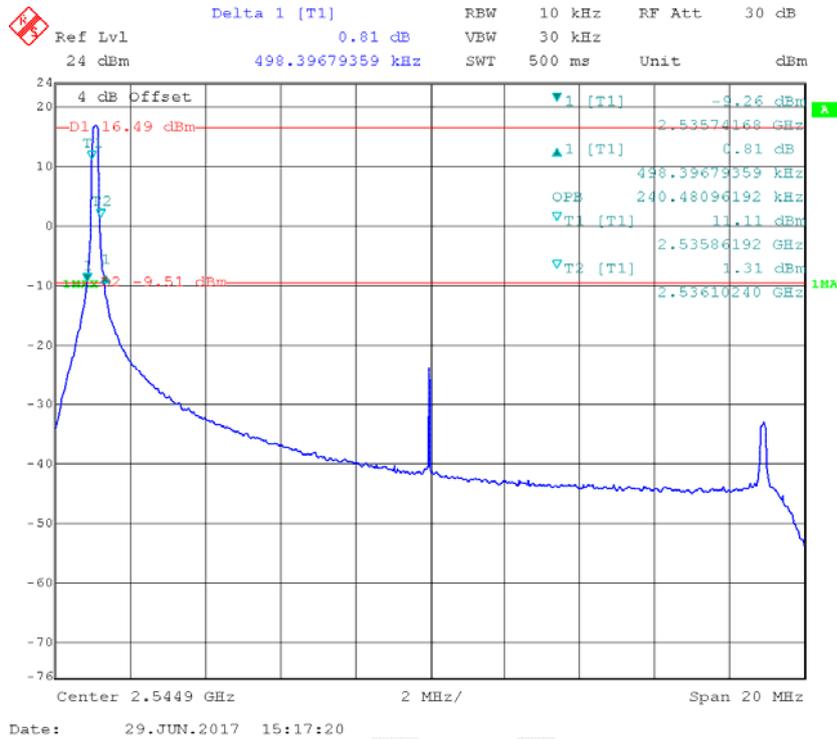
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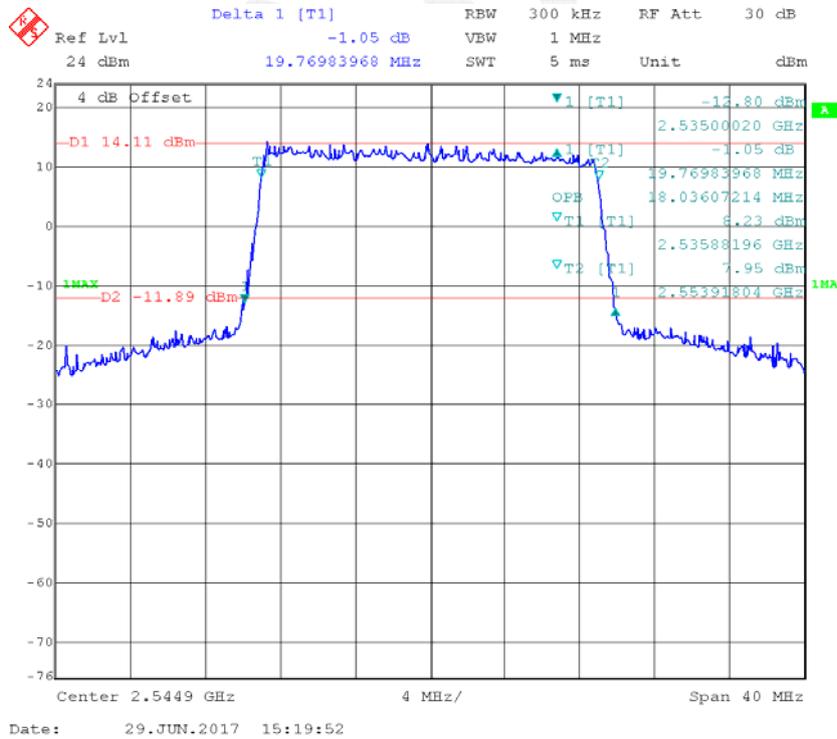


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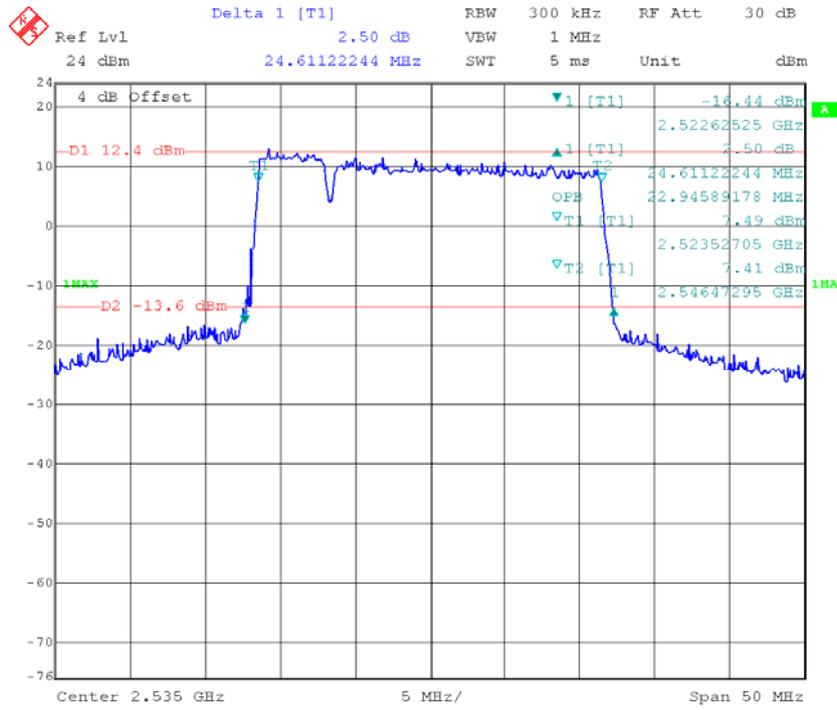
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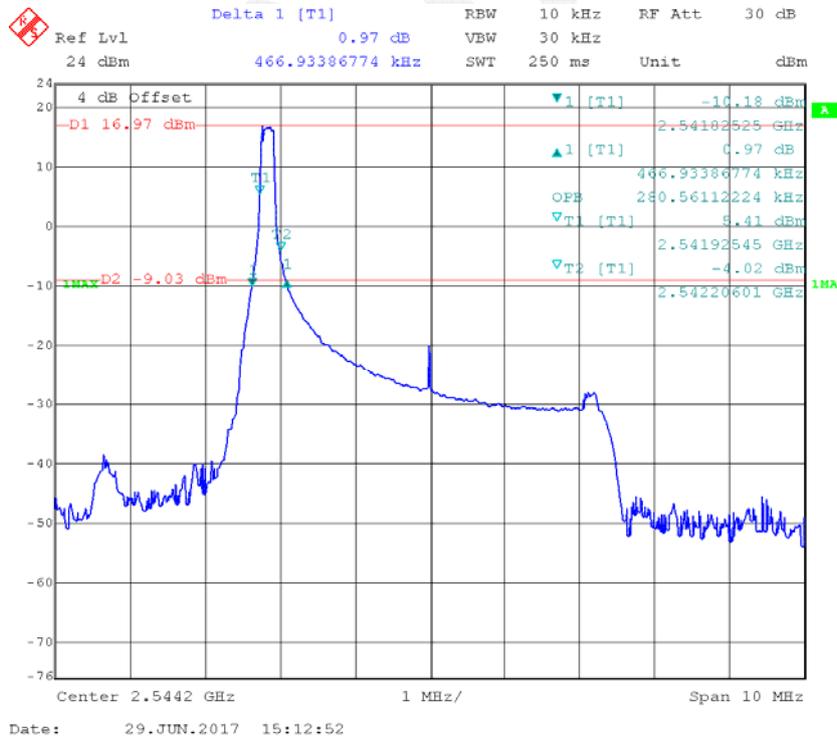
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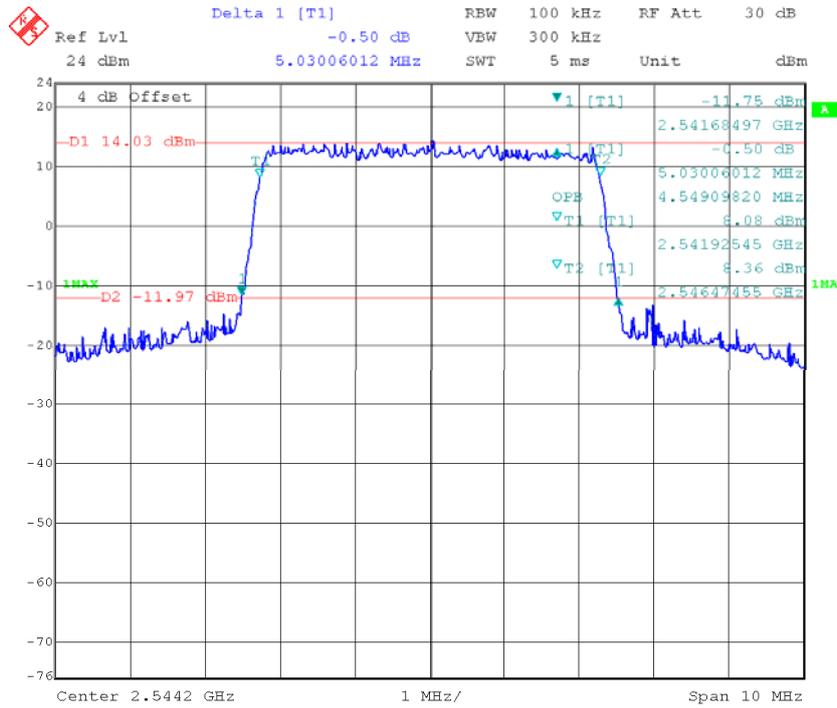
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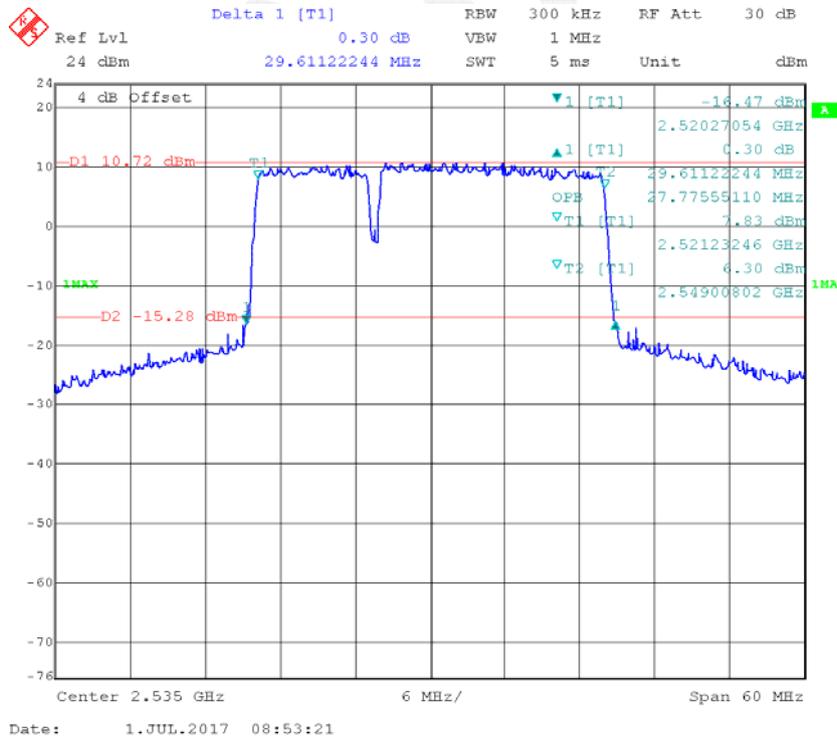
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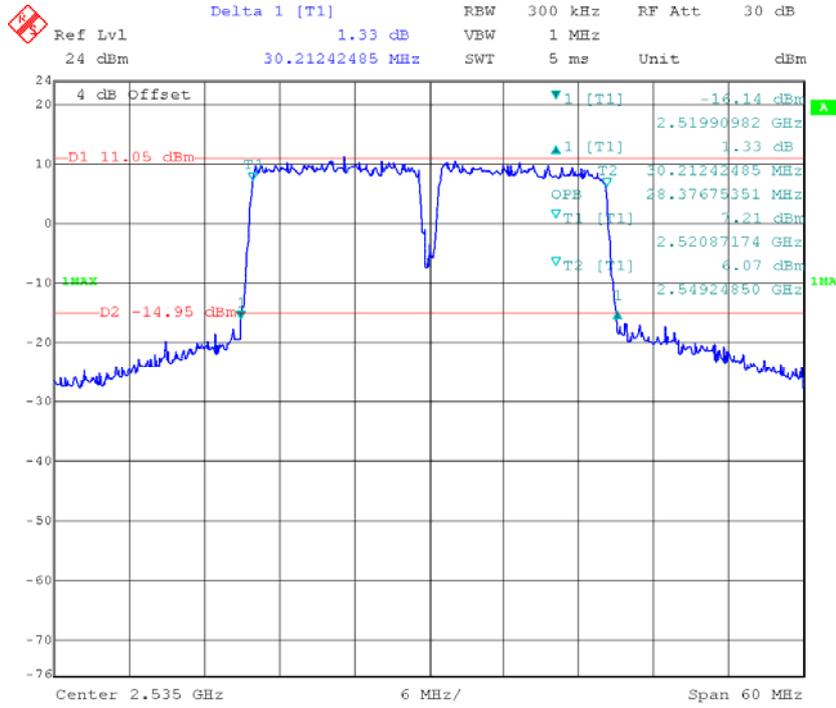
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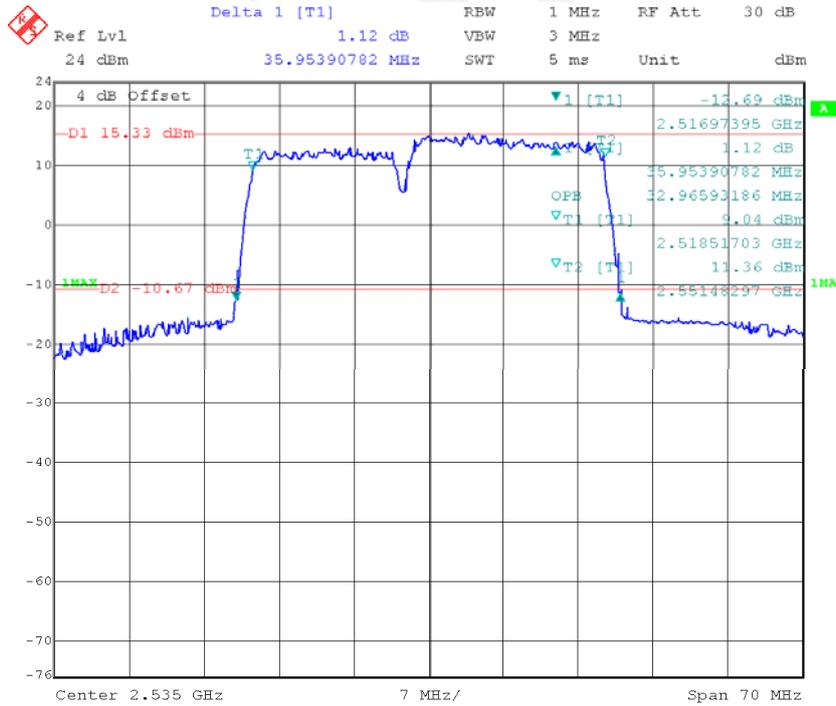


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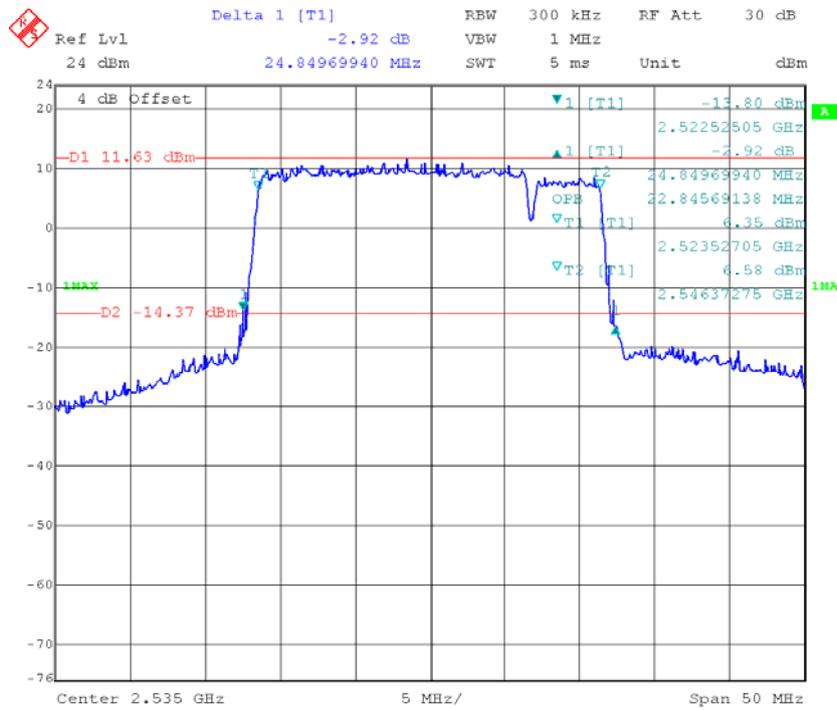
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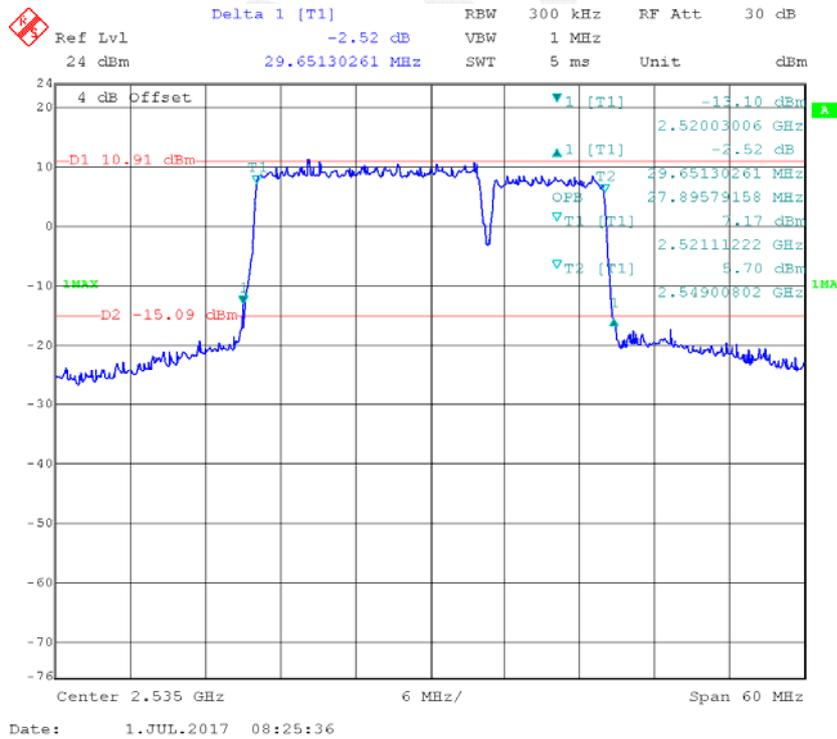


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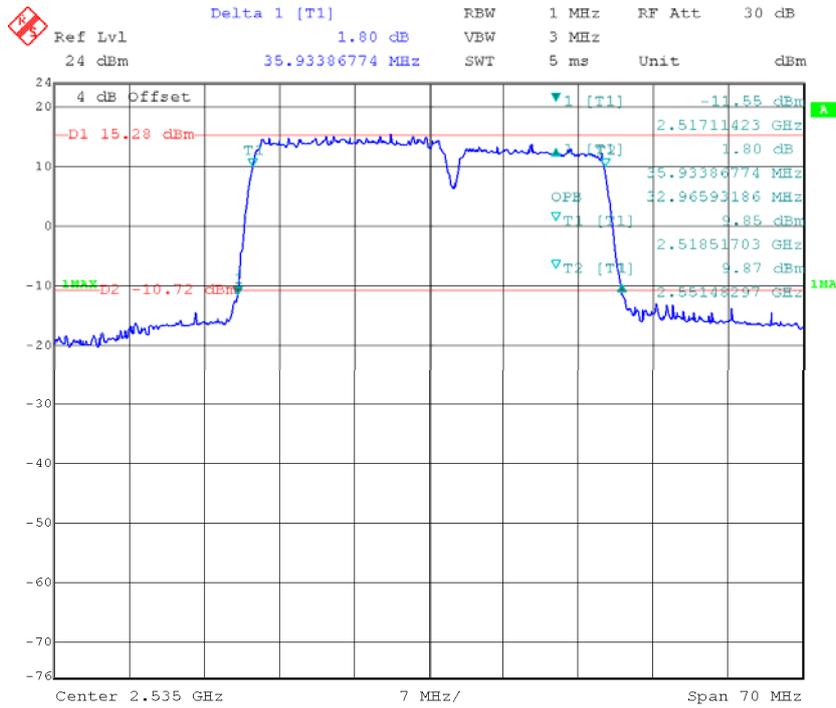
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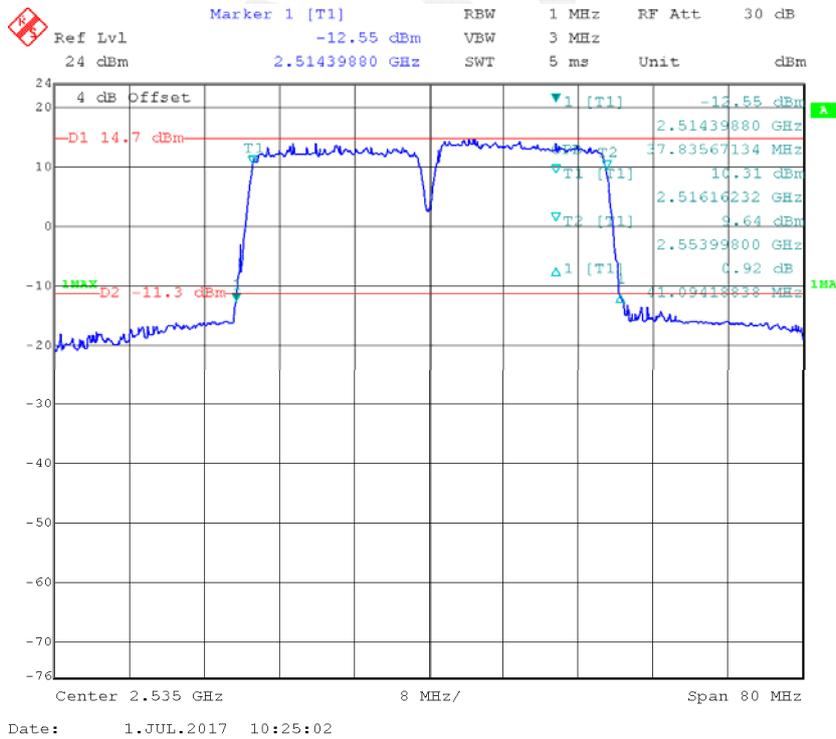
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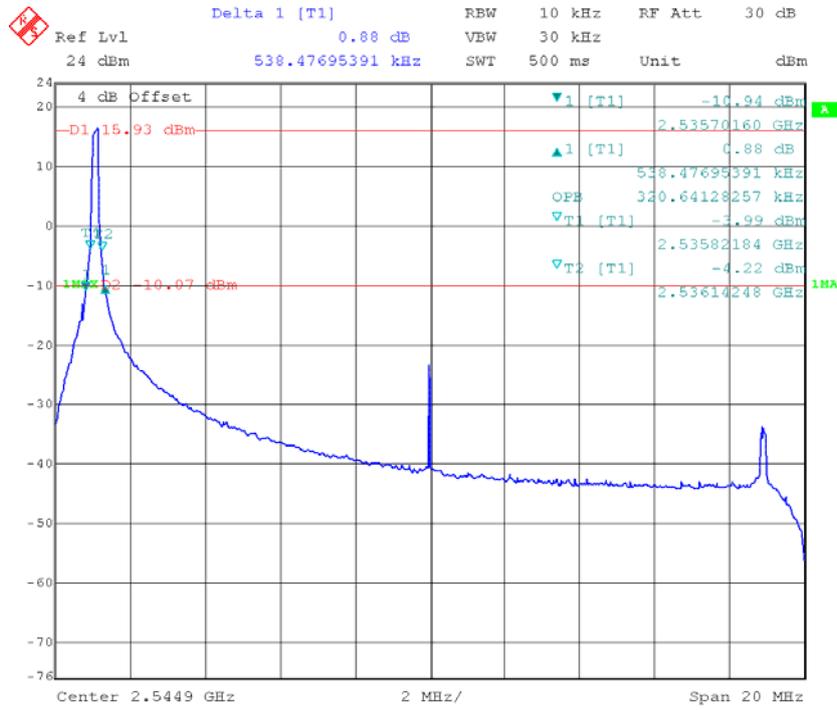
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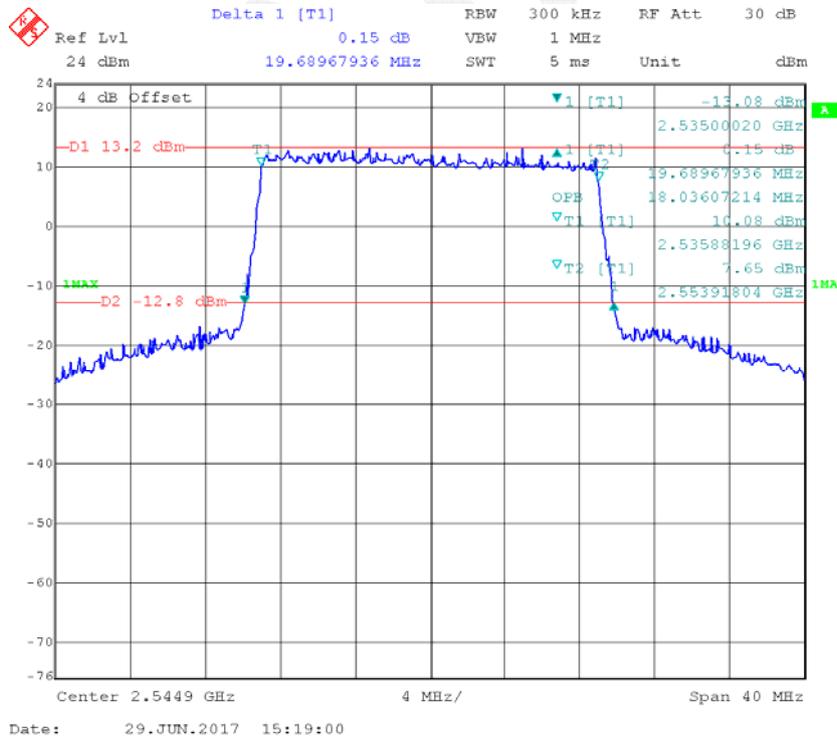
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20MHz_16-QAM_RB1

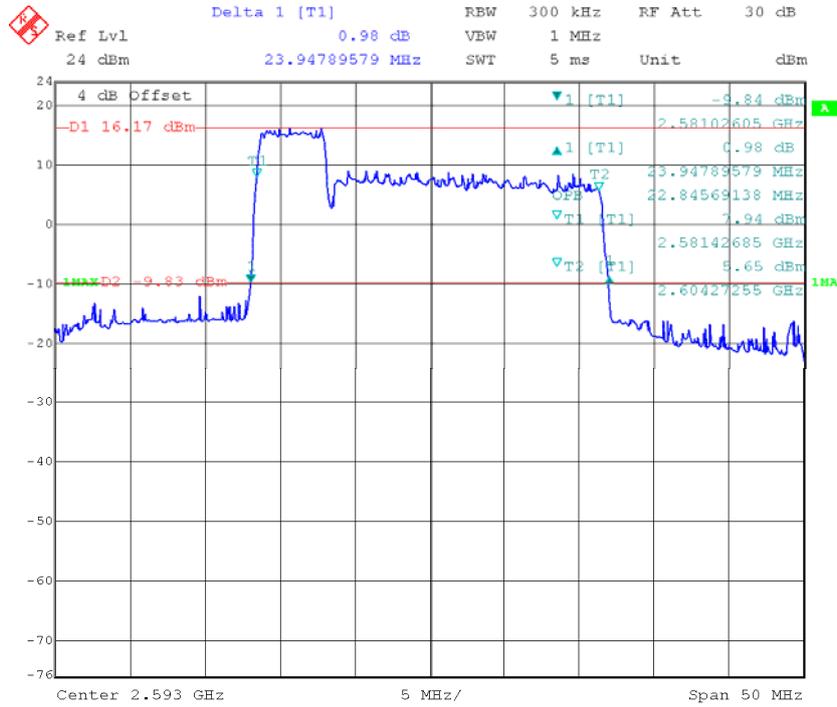


20MHz_16-QAM_RB100

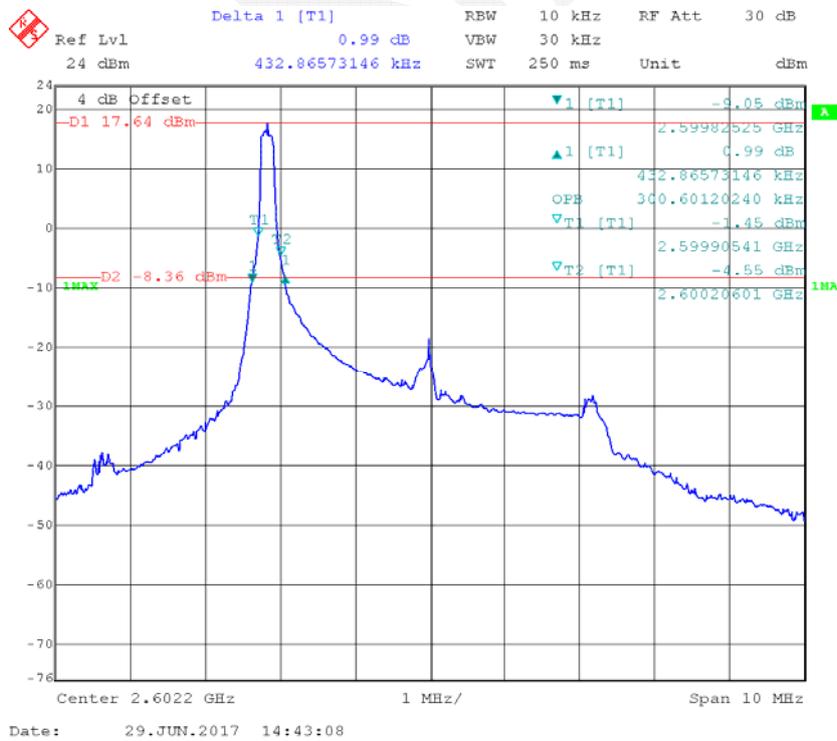


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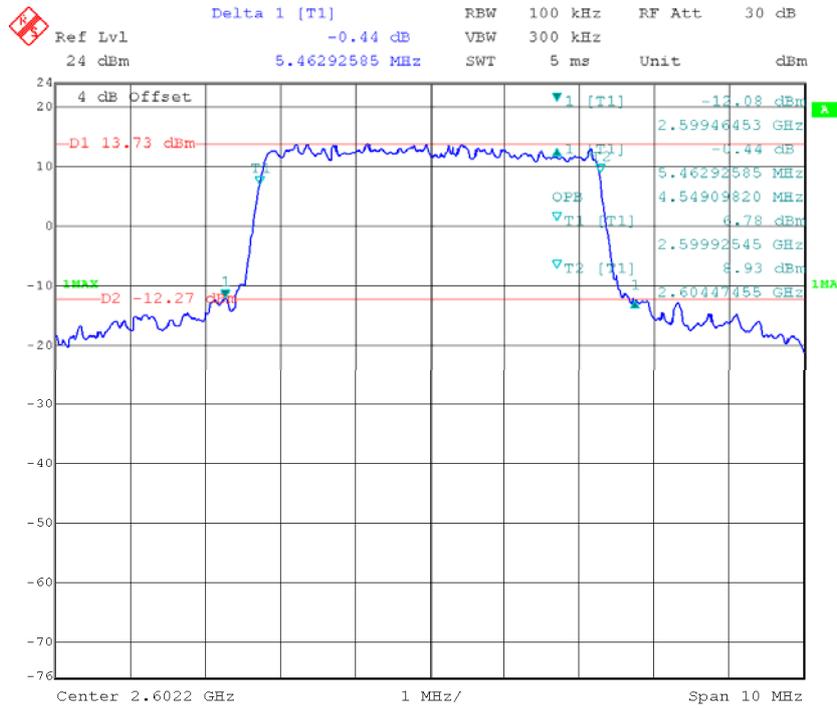
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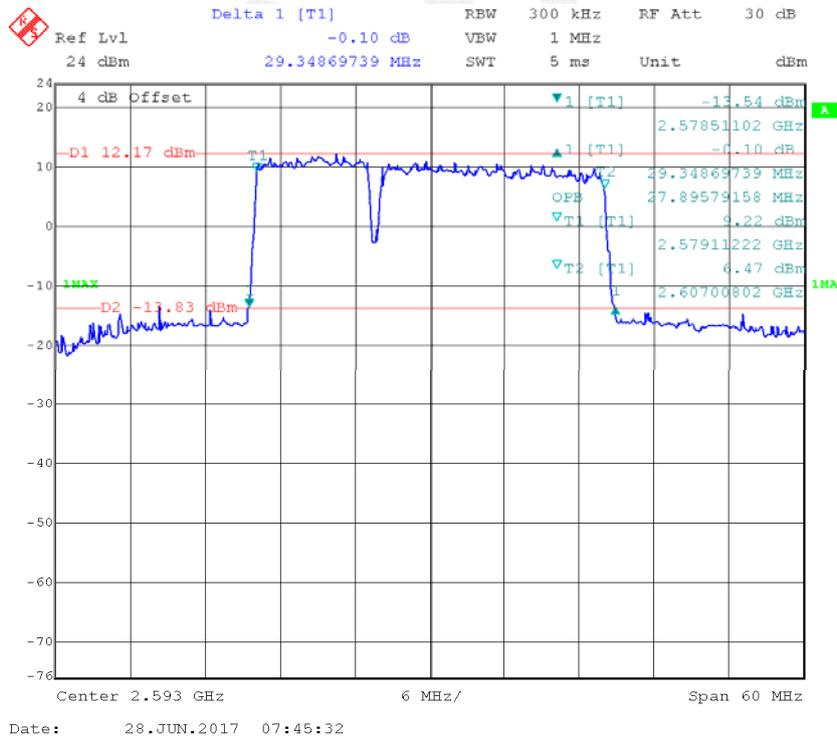
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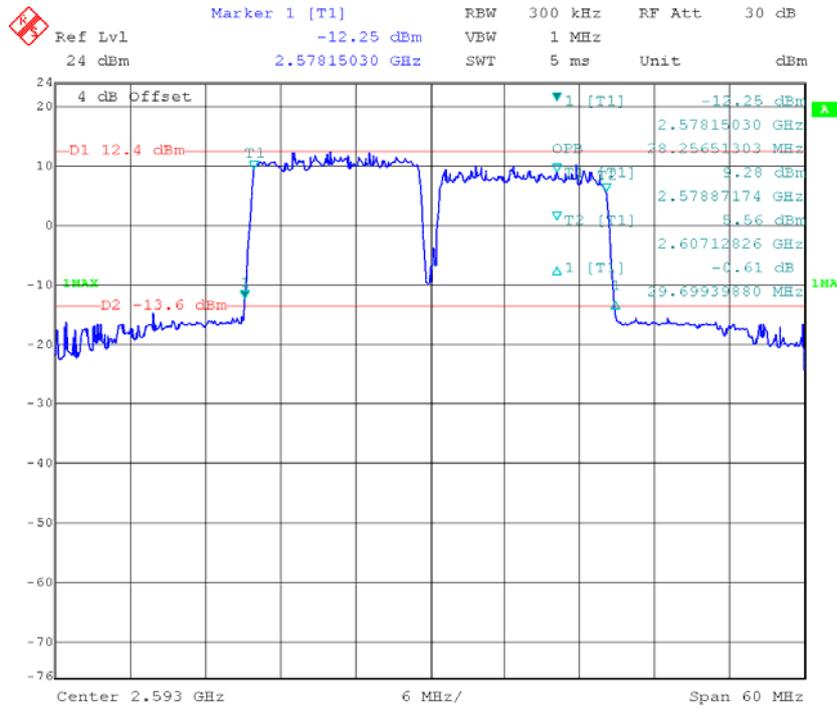
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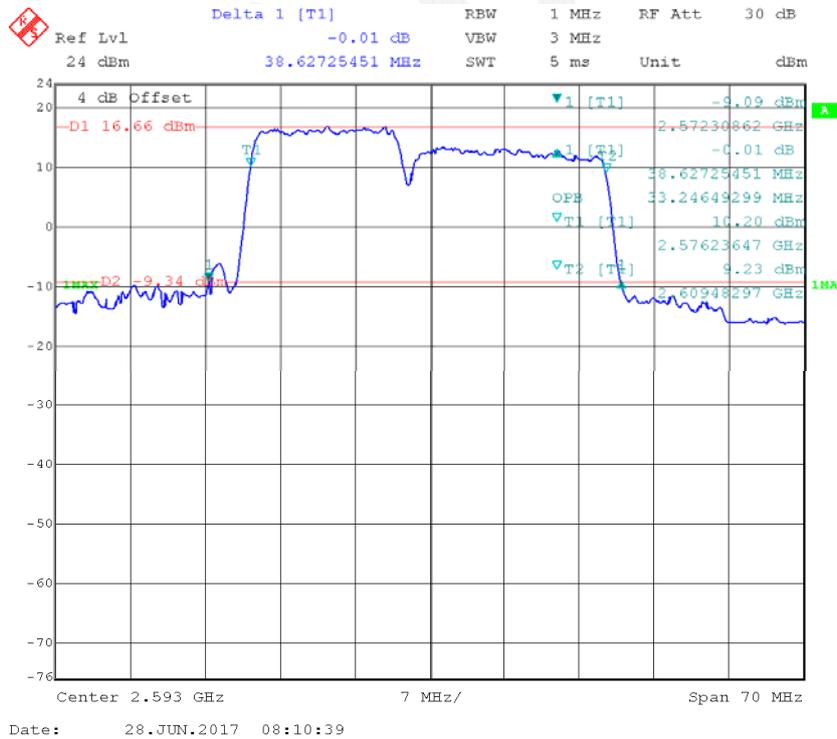
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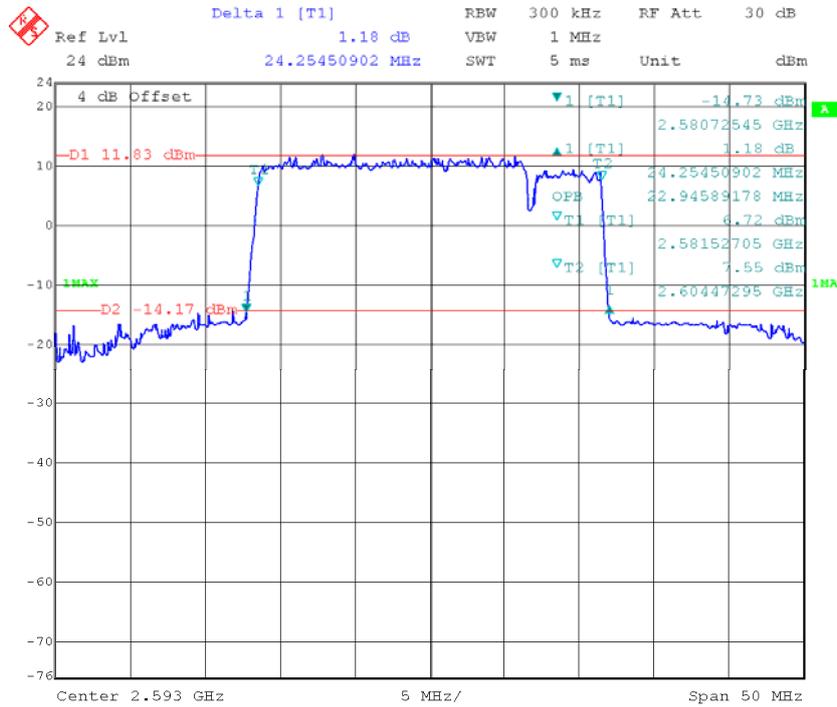
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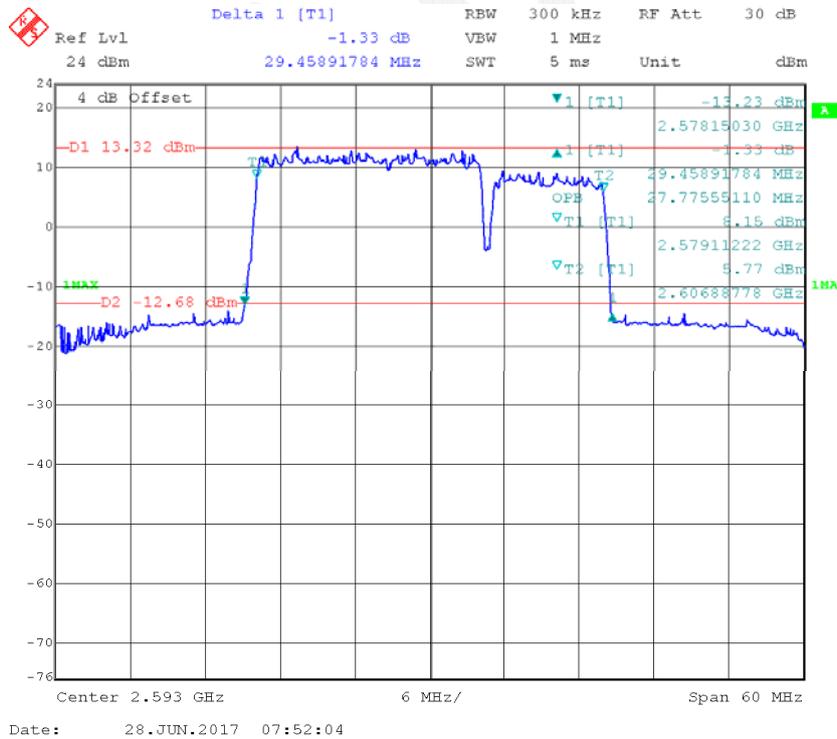
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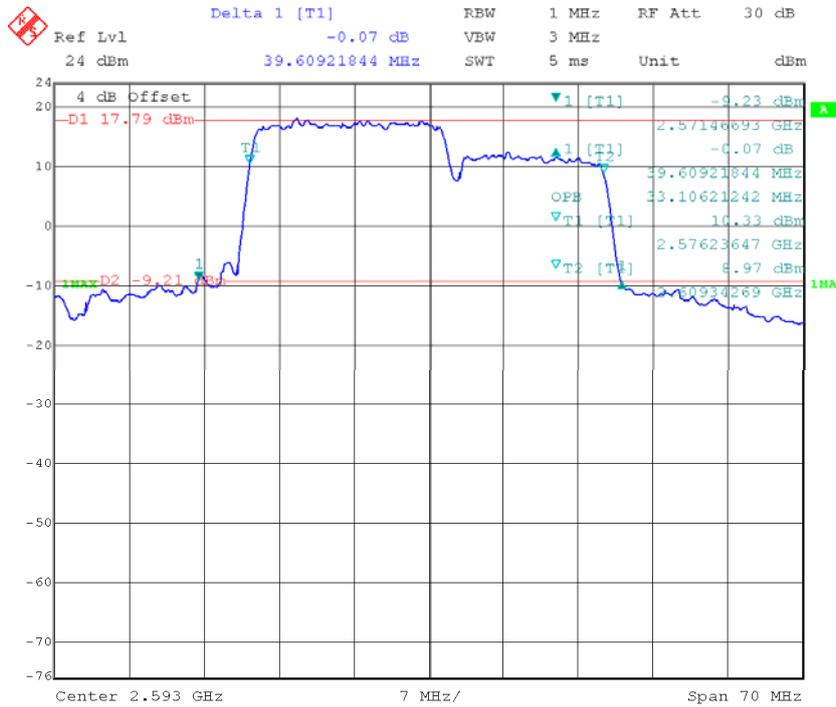
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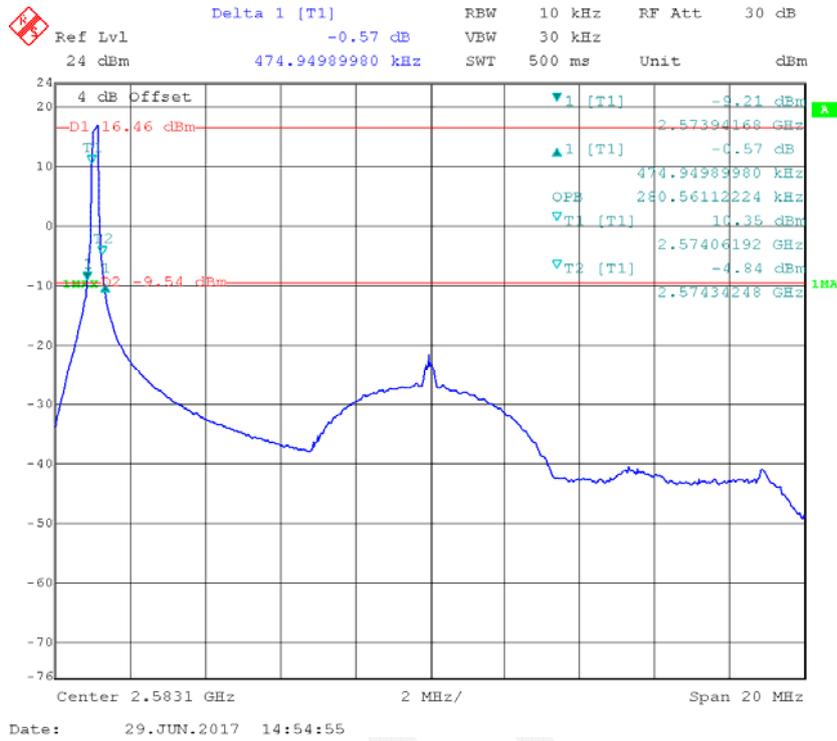
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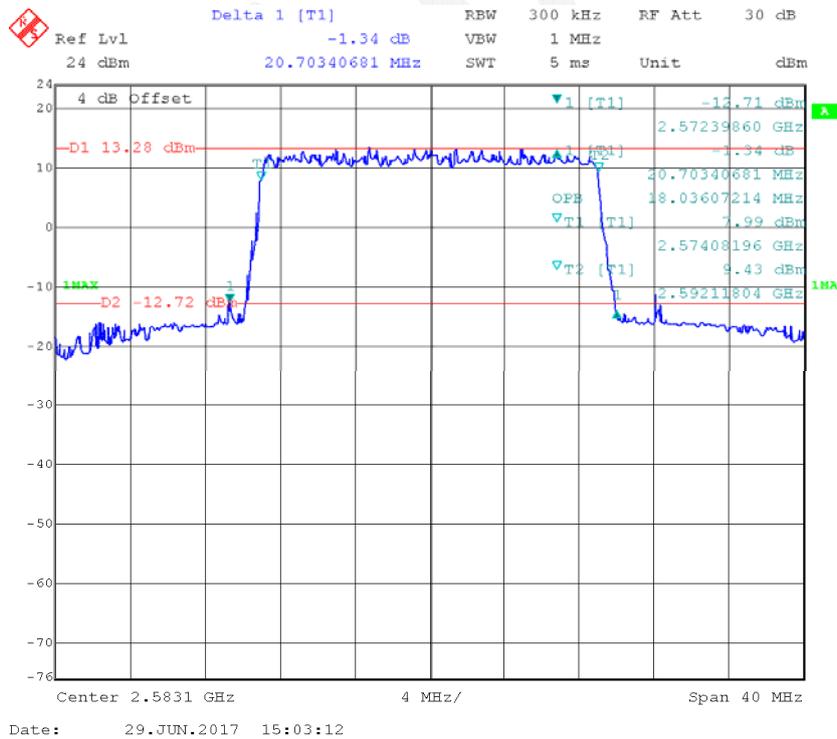
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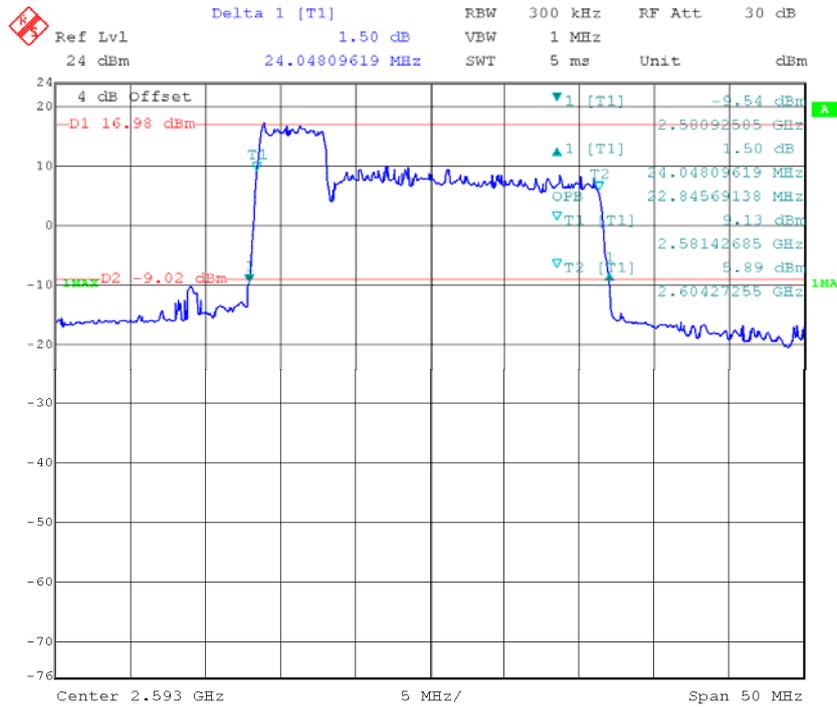
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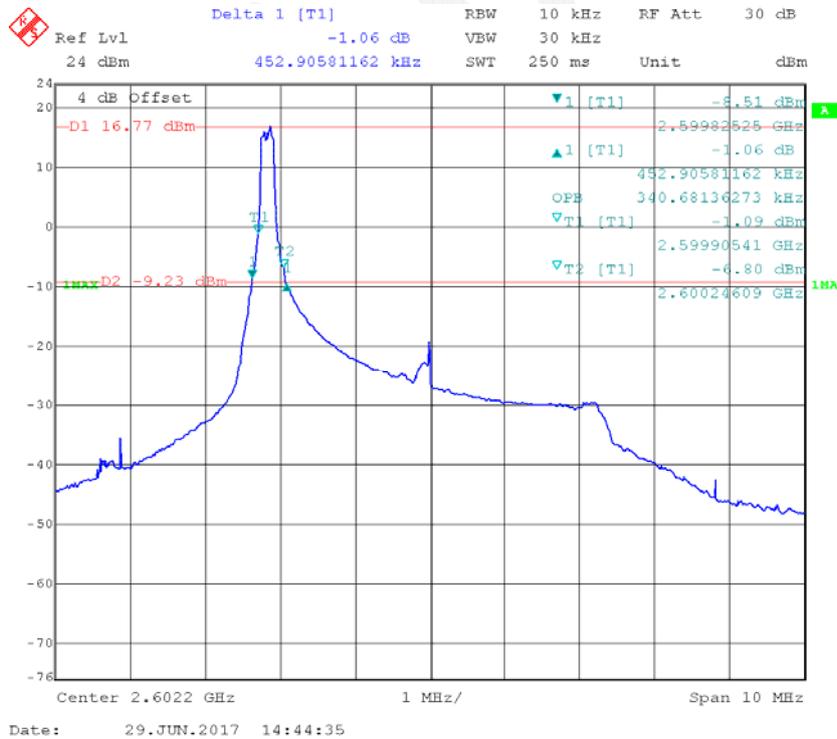
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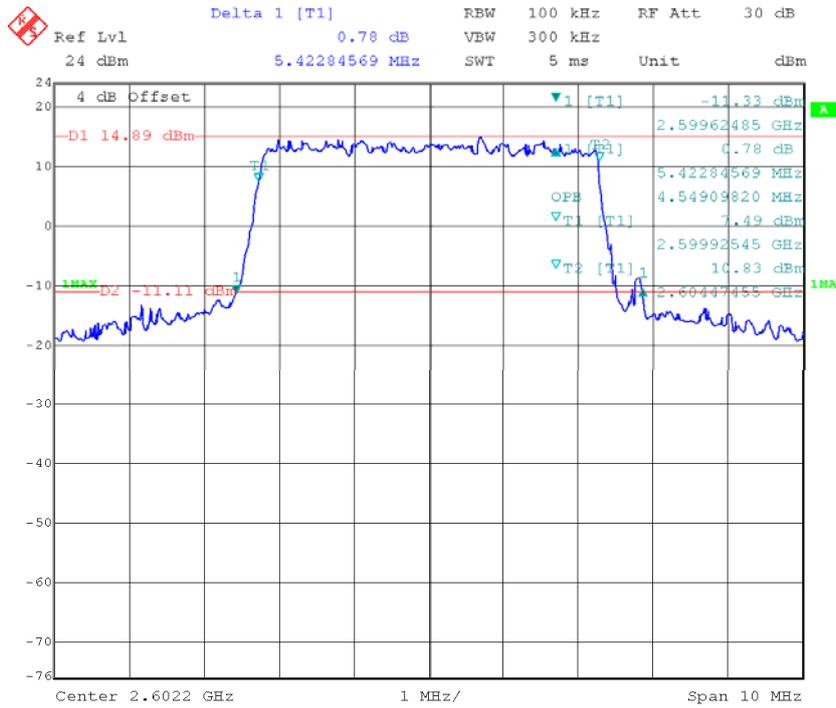
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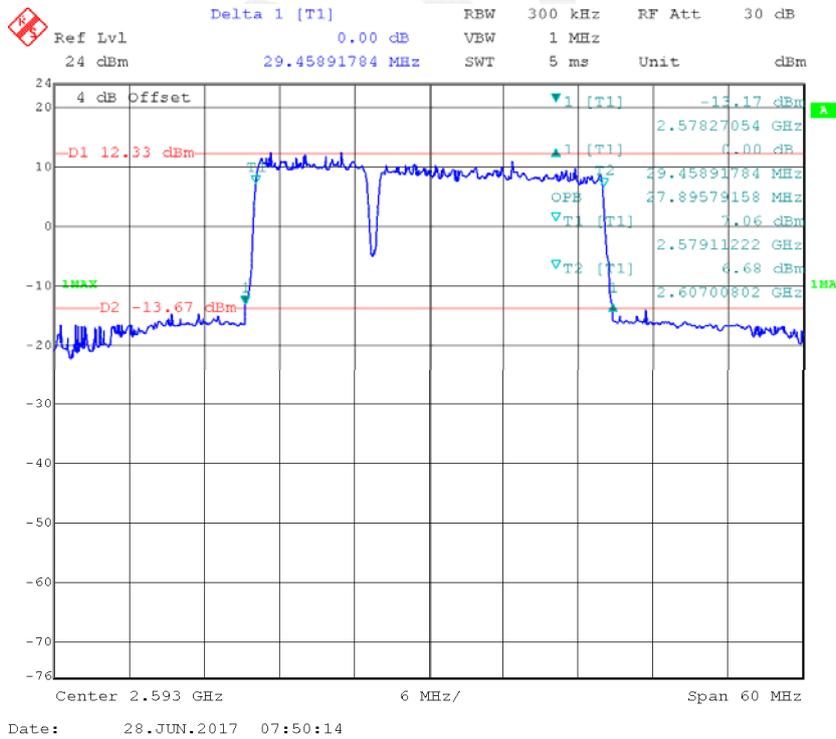
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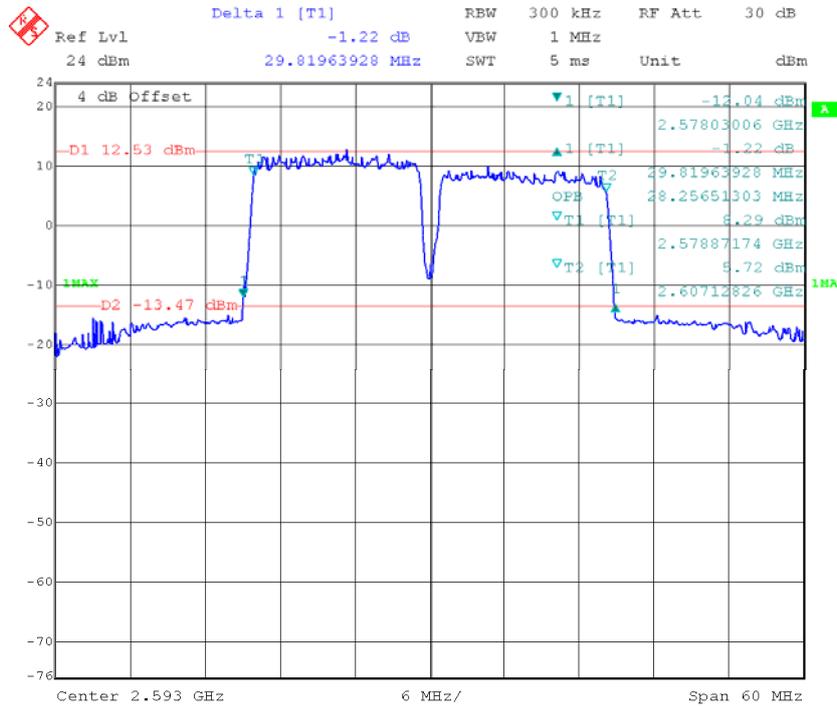
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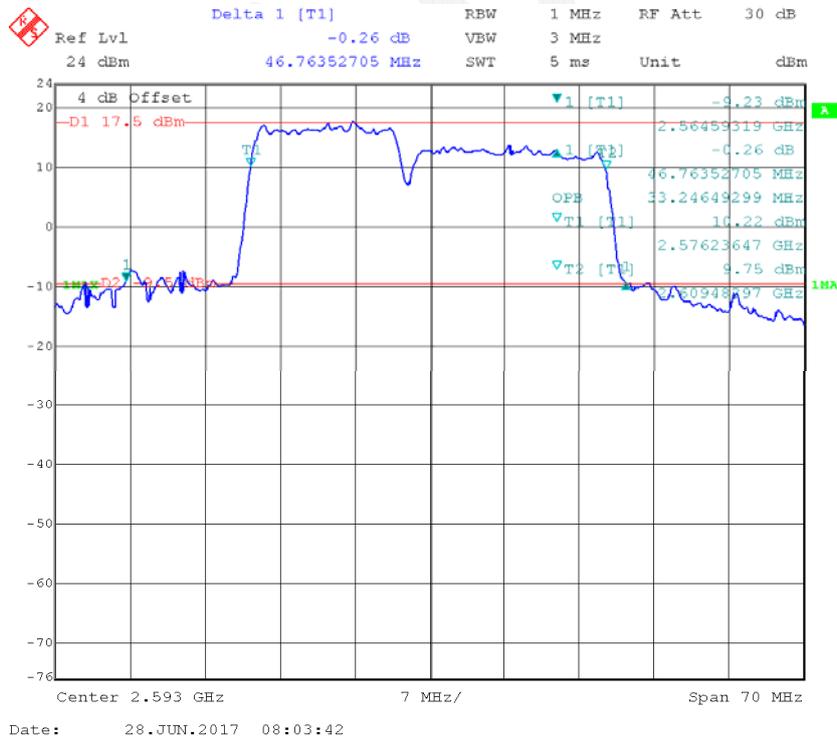
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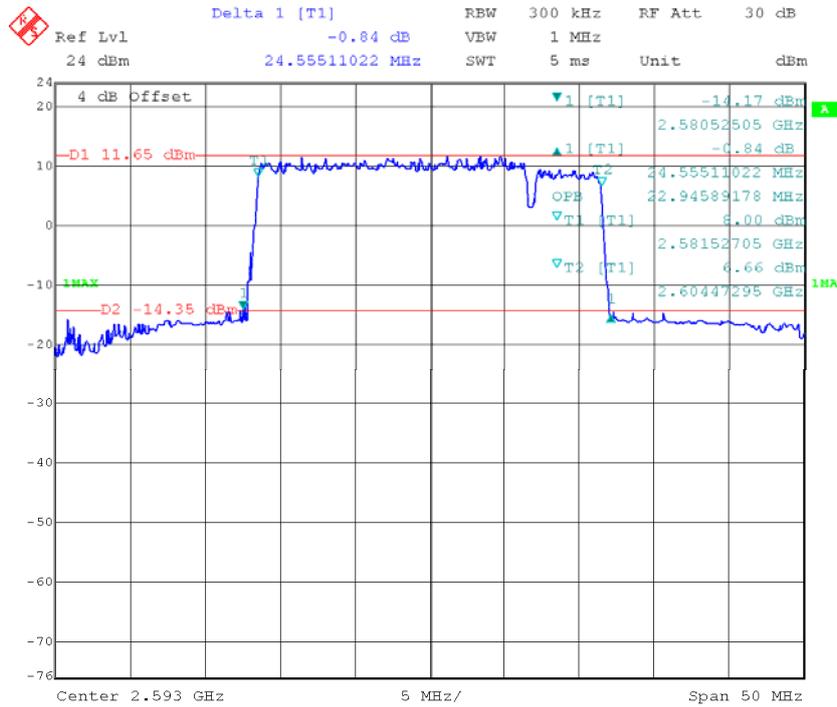
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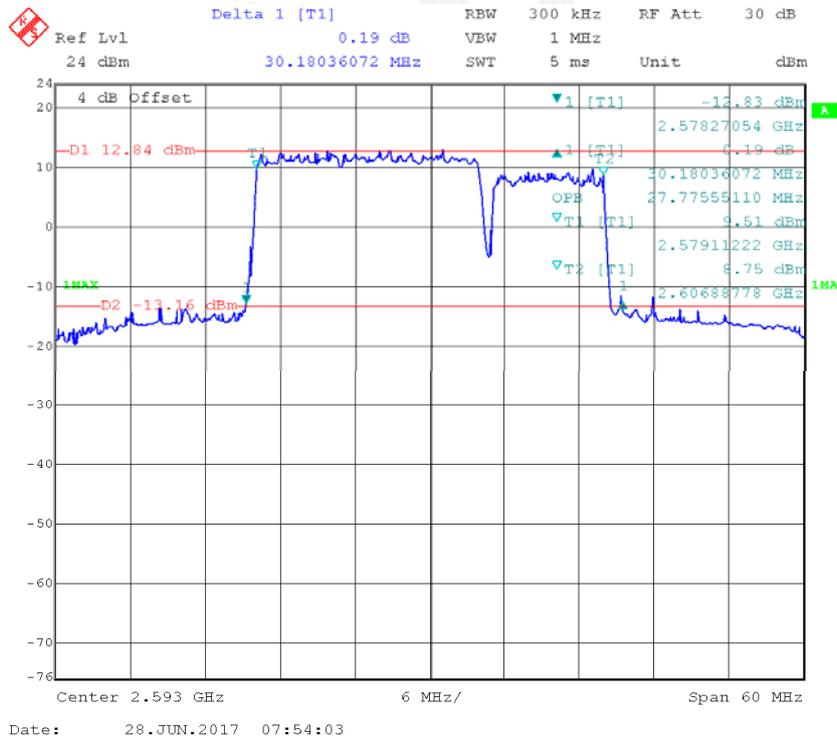
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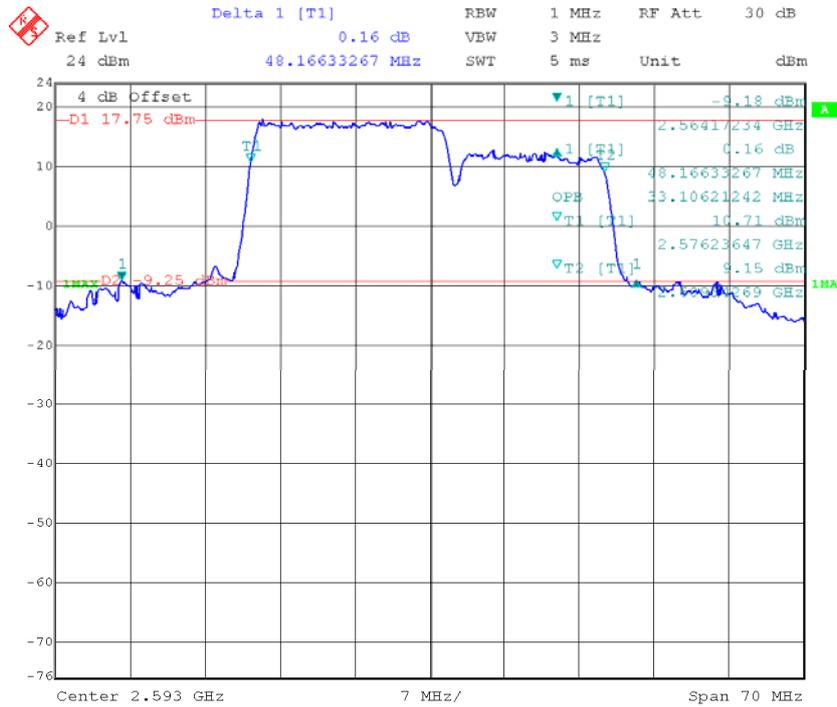
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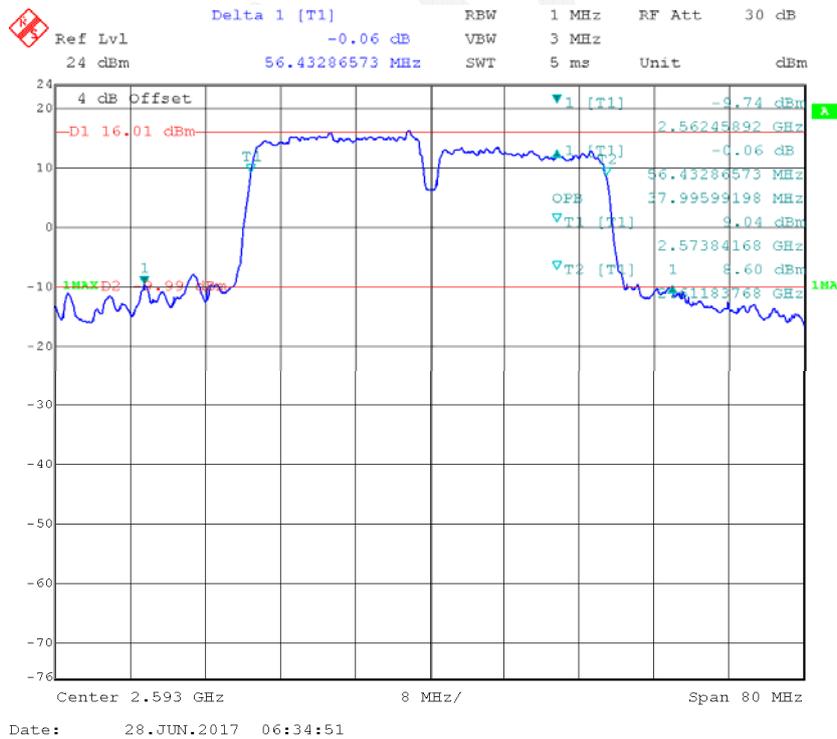
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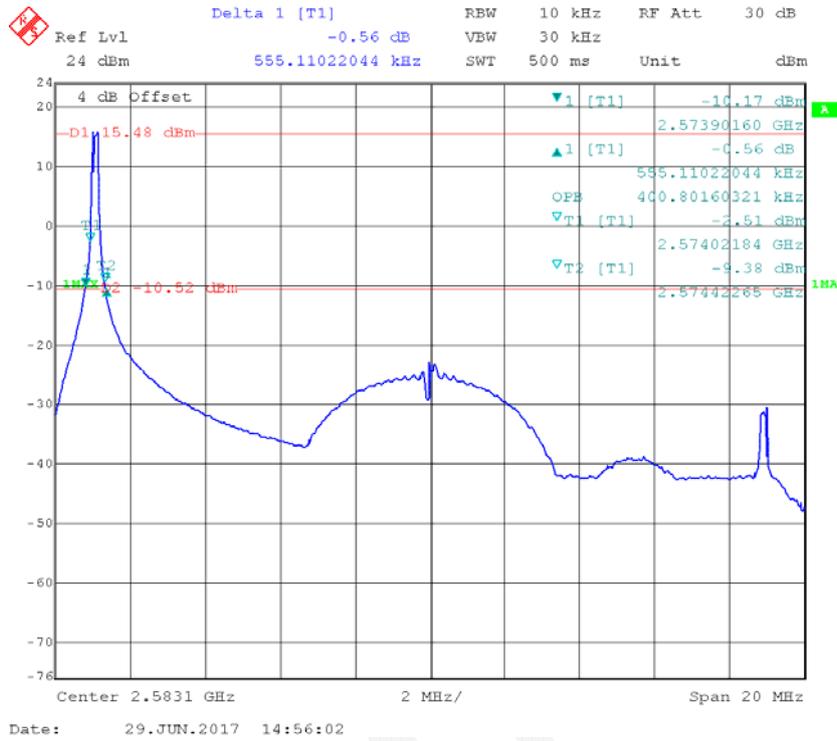
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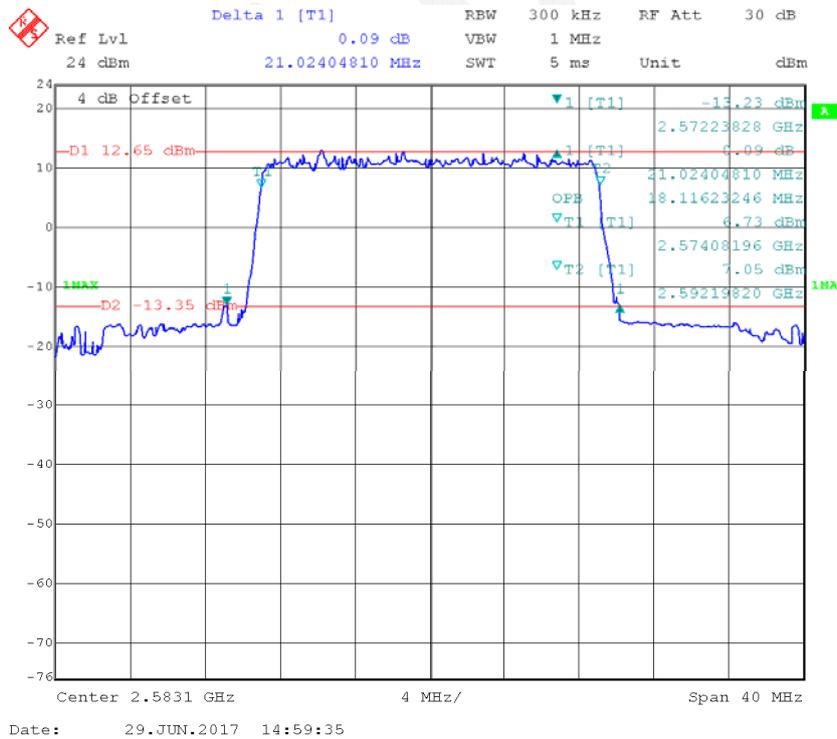
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20MHz_16-QAM_RB1



20MHz_16-QAM_RB100



FCC §2.1051, §27.53, RSS-195 § 5.6, RSS-199 § 4.5- SPURIOUS EMISSIONS AT ANTENNA TERMINALS

Applicable Standards

FCC §2.1051 and §27.53.

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

FCC§27.53(a)

(3) For fixed CPE stations operating in the 2305-2320 MHz and 2345-2360 MHz bands transmitting with 2 watts per 5 megahertz average EIRP or less:

(i) By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than $55 + 10 \log (P)$ dB on all frequencies between 2320 and 2324 MHz and between 2341 and 2345 MHz, not less than $61 + 10 \log (P)$ dB on all frequencies between 2324 and 2328 MHz and between 2337 and 2341 MHz, and not less than $67 + 10 \log (P)$ dB on all frequencies between 2328 and 2337 MHz;

(ii) By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2300 and 2305 MHz, $55 + 10 \log (P)$ dB on all frequencies between 2296 and 2300 MHz, $61 + 10 \log (P)$ dB on all frequencies between 2292 and 2296 MHz, $67 + 10 \log (P)$ dB on all frequencies between 2288 and 2292 MHz, and $70 + 10 \log (P)$ dB below 2288 MHz;

(iii) By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2360 and 2365 MHz, and not less than $70 + 10 \log (P)$ dB above 2365 MHz.

FCC§27.53(m)

(2) For digital base stations, the attenuation shall be not less than $43 + 10 \log (P)$ dB, unless a documented interference complaint is received from an adjacent channel licensee with an overlapping Geographic Service Area. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS No. 1 on the same terms and conditions as adjacent channel BRS or EBS licensees. Provided that a documented interference complaint cannot be mutually resolved between the parties prior to the applicable deadline, then the following additional attenuation requirements shall apply:

(i) If a pre-existing base station suffers harmful interference from emissions caused by a new or modified base station located 1.5 km or more away, within 24 hours of the receipt of a documented interference complaint the licensee of the new or modified base station must attenuate its emissions by at least $67 + 10 \log (P)$ dB measured at 3 megahertz, above or below, from the channel edge of its frequency block and shall immediately notify the complaining licensee upon implementation of the additional attenuation. No later than 60 days after the implementation of such additional attenuation, the licensee of the complaining base station must attenuate its base station emissions by at least $67 + 10 \log (P)$ dB measured at 3 megahertz, above or below, from the channel edge of its frequency block of the new or modified base station.

(ii) If a pre-existing base station suffers harmful interference from emissions caused by a new or modified base station located less than 1.5 km away, within 24 hours of receipt of a documented interference complaint the licensee of the new or modified base station must

attenuate its emissions by at least $67 + 10 \log (P) - 20 \log (D\text{km}/1.5)$ dB measured at 3 megahertz, above or below, from the channel edge of its frequency block of the complaining licensee, or if both base stations are co-located, limit its undesired signal level at the pre-existing base station receiver(s) to no more than -107 dBm measured in a 5.5 megahertz bandwidth and shall immediately notify the complaining licensee upon such reduction in the undesired signal level. No later than 60 days after such reduction in the undesired signal level, the complaining licensee must attenuate its base station emissions by at least $67 + 10 \log (P)$ dB measured at 3 megahertz, above or below, from the channel edge of its frequency block of the new or modified base station.

(iii) If a new or modified base station suffers harmful interference from emissions caused by a pre-existing base station located 1.5 km or more away, within 60 days of receipt of a documented interference complaint the licensee of each base station must attenuate its base station emissions by at least $67 + 10 \log (P)$ dB measured at 3 megahertz, above or below, from the channel edge of its frequency block of the other licensee.

(iv) If a new or modified base station suffers harmful interference from emissions caused by a pre-existing base station located less than 1.5 km away, within 60 days of receipt of a documented interference complaint: (a) The licensee of the new or modified base station must attenuate its OOB by at least $67 + 10 \log (P) - 20 \log (D\text{km}/1.5)$ measured 3 megahertz above or below, from the channel edge of its frequency block of the other licensee, or if the base stations are co-located, limit its undesired signal level at the other base station receiver(s) to no more than -107 dBm measured in a 5.5-megahertz bandwidth; and (b) the licensee causing the interference must attenuate its emissions by at least $67 + 10 \log (P)$ dB measured at 3 megahertz, above or below, from the channel edge of its frequency block of the new or modified base station.

(v) For all fixed digital user stations, the attenuation factor shall be not less than $43 + 10 \log (P)$ dB at the channel edge.

RSS-195 § 5.6

The transmitter unwanted emissions shall be measured with a resolution bandwidth of 1 MHz. A smaller resolution bandwidth is permitted provided that the measured power is integrated over the full required measurement bandwidth of 1 MHz. However, in the 1 MHz bands immediately adjacent to the edges of the frequency range(s) in which the equipment is allowed to operate, a resolution bandwidth of as close as possible to, without being less than 1% of the occupied bandwidth, shall be employed provided that the measured power is integrated over the full required measurement bandwidth of 1 MHz.

5.6.2 Mobile, Portable and Low-Power Fixed Subscriber Equipment

The power of any emission outside the frequency range(s) in which the equipment operates shall be attenuated below the transmitter power, $P(\text{dBW})$, by the amount indicated in Table 2 and graphically represented in Figure 2, where p is the transmitter output power measured in watts.

Frequency (MHz)	Attenuation (dB)
<2200	$43 + 10 \log_{10}(p)$
2200 - 2288	$70 + 10 \log_{10}(p)$
2288 - 2292	$67 + 10 \log_{10}(p)$
2292 - 2296	$61 + 10 \log_{10}(p)$
2296 - 2300	$55 + 10 \log_{10}(p)$
2300 - 2305	$43 + 10 \log_{10}(p)$
2305 - 2320	$43 + 10 \log_{10}(p)$ ^{Note}
2320 - 2324	$55 + 10 \log_{10}(p)$
2324 - 2328	$61 + 10 \log_{10}(p)$
2328 - 2337	$67 + 10 \log_{10}(p)$
2337 - 2341	$61 + 10 \log_{10}(p)$
2341 - 2345	$55 + 10 \log_{10}(p)$
2345 - 2360	$43 + 10 \log_{10}(p)$ ^{Note}
2360 - 2365	$43 + 10 \log_{10}(p)$
2365 - 2395	$70 + 10 \log_{10}(p)$
>2395	$43 + 10 \log_{10}(p)$

Note: Measured at the edges of the highest and lowest frequency range(s) in which the equipment is designed to operate. See Section 5.2 for the permitted frequency ranges for various equipment types.

RSS-199 § 4.5

In the 1 MHz band immediately outside and adjacent to the channel edge, the unwanted emission power shall be measured with a resolution bandwidth of at least 1% of the occupied bandwidth for base station and fixed subscriber equipment, and 2% for mobile subscriber equipment. Beyond the 1 MHz band, a resolution bandwidth of 1 MHz shall be used. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full required measurement bandwidth of 1 MHz, or 1% or 2% of the occupied bandwidth, as applicable.

Equipment shall comply with the following unwanted emission limits:

(a) for base station and fixed subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least $43 + 10 \log_{10} p$.

(b) for mobile subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least:

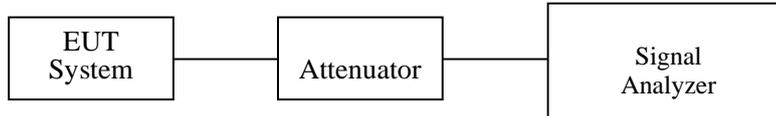
- (i) $40 + 10 \log_{10} p$ from the channel edges to 5 MHz away
- (ii) $43 + 10 \log_{10} p$ between 5 MHz and X MHz from the channel edges, and
- (iii) $55 + 10 \log_{10} p$ at X MHz and beyond from the channel edges

In addition, the attenuation shall not be less than $43 + 10 \log_{10} p$ on all frequencies between 2490.5 MHz and 2496 MHz, and $55 + 10 \log_{10} p$ at or below 2490.5 MHz.

In (a) and (b), p is the transmitter power measured in watts and X is 6 MHz or the equipment occupied bandwidth, whichever is greater.

Test Procedure

The RF output of the transceiver was connected to a spectrum analyzer and simulator through appropriate attenuation. The resolution bandwidths of the spectrum analyzer were set at 100 kHz @ below 1GHz, 1MHz @above 1GHz. 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
Rohde & Schwarz	Signal Analyzer	FSIQ26	831929/005	2016-09-21	2017-09-20
Unknown	RF Cable	Unknown	C-2	Each Time	/
Unknown	Two-way Splitter	Unknown	OE0120121	Each Time	/
R&S	Wideband Radio Communication Tester	CMW500	106891	2016-11-23	2017-11-23

* **Statement of Traceability:** BACL(Chengdu) attests that all of the calibrations on the equipment items listed above were traceable to NIM or to another internationally recognized National Metrology Institute (NMI), and were compliant with the NIST HB 150-2016 Normative Annex B “Implementation of traceability policy in accredited laboratories”.

Test Data

Environmental Conditions

Temperature:	27.1~27.5 °C
Relative Humidity:	41~58 %
ATM Pressure:	100.1~100.5 kPa

The testing was performed by Lorin Bian from 2017-05-22 to 2017-07-04.

Please refer to the Appendix A for plots.

FCC §2.1053, §27.53, RSS-195 §5.6, RSS-199 §4.5- SPURIOUS RADIATED EMISSIONS

Applicable Standards

FCC §2.1051 and §27.53.

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

FCC§27.53(a)

(3) For fixed CPE stations operating in the 2305-2320 MHz and 2345-2360 MHz bands transmitting with 2 watts per 5 megahertz average EIRP or less:

(i) By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than $55 + 10 \log (P)$ dB on all frequencies between 2320 and 2324 MHz and between 2341 and 2345 MHz, not less than $61 + 10 \log (P)$ dB on all frequencies between 2324 and 2328 MHz and between 2337 and 2341 MHz, and not less than $67 + 10 \log (P)$ dB on all frequencies between 2328 and 2337 MHz;

(ii) By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2300 and 2305 MHz, $55 + 10 \log (P)$ dB on all frequencies between 2296 and 2300 MHz, $61 + 10 \log (P)$ dB on all frequencies between 2292 and 2296 MHz, $67 + 10 \log (P)$ dB on all frequencies between 2288 and 2292 MHz, and $70 + 10 \log (P)$ dB below 2288 MHz;

(iii) By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2360 and 2365 MHz, and not less than $70 + 10 \log (P)$ dB above 2365 MHz.

FCC§27.53(m)

(2) For digital base stations, the attenuation shall be not less than $43 + 10 \log (P)$ dB, unless a documented interference complaint is received from an adjacent channel licensee with an overlapping Geographic Service Area. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS No. 1 on the same terms and conditions as adjacent channel BRS or EBS licensees. Provided that a documented interference complaint cannot be mutually resolved between the parties prior to the applicable deadline, then the following additional attenuation requirements shall apply:

(i) If a pre-existing base station suffers harmful interference from emissions caused by a new or modified base station located 1.5 km or more away, within 24 hours of the receipt of a documented interference complaint the licensee of the new or modified base station must attenuate its emissions by at least $67 + 10 \log (P)$ dB measured at 3 megahertz, above or below, from the channel edge of its frequency block and shall immediately notify the complaining licensee upon implementation of the additional attenuation. No later than 60 days after the implementation of such additional attenuation, the licensee of the complaining base station must attenuate its base station emissions by at least $67 + 10 \log (P)$ dB measured at 3 megahertz, above or below, from the channel edge of its frequency block of the new or modified base station.

(ii) If a pre-existing base station suffers harmful interference from emissions caused by a new or modified base station located less than 1.5 km away, within 24 hours of receipt of a documented interference complaint the licensee of the new or modified base station must

attenuate its emissions by at least $67 + 10 \log (P) - 20 \log (D\text{km}/1.5)$ dB measured at 3 megahertz, above or below, from the channel edge of its frequency block of the complaining licensee, or if both base stations are co-located, limit its undesired signal level at the pre-existing base station receiver(s) to no more than -107 dBm measured in a 5.5 megahertz bandwidth and shall immediately notify the complaining licensee upon such reduction in the undesired signal level. No later than 60 days after such reduction in the undesired signal level, the complaining licensee must attenuate its base station emissions by at least $67 + 10 \log (P)$ dB measured at 3 megahertz, above or below, from the channel edge of its frequency block of the new or modified base station.

(iii) If a new or modified base station suffers harmful interference from emissions caused by a pre-existing base station located 1.5 km or more away, within 60 days of receipt of a documented interference complaint the licensee of each base station must attenuate its base station emissions by at least $67 + 10 \log (P)$ dB measured at 3 megahertz, above or below, from the channel edge of its frequency block of the other licensee.

(iv) If a new or modified base station suffers harmful interference from emissions caused by a pre-existing base station located less than 1.5 km away, within 60 days of receipt of a documented interference complaint: (a) The licensee of the new or modified base station must attenuate its OOB by at least $67 + 10 \log (P) - 20 \log (D\text{km}/1.5)$ measured 3 megahertz above or below, from the channel edge of its frequency block of the other licensee, or if the base stations are co-located, limit its undesired signal level at the other base station receiver(s) to no more than -107 dBm measured in a 5.5-megahertz bandwidth; and (b) the licensee causing the interference must attenuate its emissions by at least $67 + 10 \log (P)$ dB measured at 3 megahertz, above or below, from the channel edge of its frequency block of the new or modified base station.

(v) For all fixed digital user stations, the attenuation factor shall be not less than $43 + 10 \log (P)$ dB at the channel edge.

RSS-195 § 5.6

The transmitter unwanted emissions shall be measured with a resolution bandwidth of 1 MHz. A smaller resolution bandwidth is permitted provided that the measured power is integrated over the full required measurement bandwidth of 1 MHz. However, in the 1 MHz bands immediately adjacent to the edges of the frequency range(s) in which the equipment is allowed to operate, a resolution bandwidth of as close as possible to, without being less than 1% of the occupied bandwidth, shall be employed provided that the measured power is integrated over the full required measurement bandwidth of 1 MHz.

5.6.2 Mobile, Portable and Low-Power Fixed Subscriber Equipment

The power of any emission outside the frequency range(s) in which the equipment operates shall be attenuated below the transmitter power, $P(\text{dBW})$, by the amount indicated in Table 2 and graphically represented in Figure 2, where p is the transmitter output power measured in watts.

Frequency (MHz)	Attenuation (dB)
<2200	$43 + 10 \log_{10}(p)$
2200 - 2288	$70 + 10 \log_{10}(p)$
2288 - 2292	$67 + 10 \log_{10}(p)$
2292 - 2296	$61 + 10 \log_{10}(p)$
2296 - 2300	$55 + 10 \log_{10}(p)$
2300 - 2305	$43 + 10 \log_{10}(p)$
2305 - 2320	$43 + 10 \log_{10}(p)$ ^{Note}
2320 - 2324	$55 + 10 \log_{10}(p)$
2324 - 2328	$61 + 10 \log_{10}(p)$
2328 - 2337	$67 + 10 \log_{10}(p)$
2337 - 2341	$61 + 10 \log_{10}(p)$
2341 - 2345	$55 + 10 \log_{10}(p)$
2345 - 2360	$43 + 10 \log_{10}(p)$ ^{Note}
2360 - 2365	$43 + 10 \log_{10}(p)$
2365 - 2395	$70 + 10 \log_{10}(p)$
>2395	$43 + 10 \log_{10}(p)$

Note: Measured at the edges of the highest and lowest frequency range(s) in which the equipment is designed to operate. See Section 5.2 for the permitted frequency ranges for various equipment types.

RSS-199 § 4.5

In the 1 MHz band immediately outside and adjacent to the channel edge, the unwanted emission power shall be measured with a resolution bandwidth of at least 1% of the occupied bandwidth for base station and fixed subscriber equipment, and 2% for mobile subscriber equipment. Beyond the 1 MHz band, a resolution bandwidth of 1 MHz shall be used. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full required measurement bandwidth of 1 MHz, or 1% or 2% of the occupied bandwidth, as applicable.

Equipment shall comply with the following unwanted emission limits:

(a) for base station and fixed subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least $43 + 10 \log_{10} p$.

(b) for mobile subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least:

- (i) $40 + 10 \log_{10} p$ from the channel edges to 5 MHz away
- (ii) $43 + 10 \log_{10} p$ between 5 MHz and X MHz from the channel edges, and
- (iii) $55 + 10 \log_{10} p$ at X MHz and beyond from the channel edges

In addition, the attenuation shall not be less than $43 + 10 \log_{10} p$ on all frequencies between 2490.5 MHz and 2496 MHz, and $55 + 10 \log_{10} p$ at or below 2490.5 MHz.

In (a) and (b), p is the transmitter power measured in watts and X is 6 MHz or the equipment occupied bandwidth, whichever is greater.

Test Procedure

The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.

The frequency range up to tenth harmonic of the fundamental frequency was investigated.

Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

Spurious emissions in dB = $10 \lg (\text{TXpwr in Watts}/0.001)$ – the absolute level

Spurious attenuation limit in dB = $43 + 10 \text{Log}_{10} (\text{power out in Watts})$

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Agilent	Amplifier	8447D	2944A10442	2016-12-02	2017-12-01
Rohde & Schwarz	EMI Test Receiver	ESCI	100028	2016-12-02	2017-12-01
Sunol Sciences	Broadband Antenna	JB3	A121808	2016-04-10	2019-04-09
Rohde & Schwarz	Spectrum Analyzer	FSEM30	100018	2016-12-02	2017-12-01
ETS	Horn Antenna	3115	003-6076	2016-12-02	2017-12-01
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-0113024	2017-06-16	2020-06-15
EMCO	Adjustable Dipole Antenna	3121C	9109-258	N/A	N/A
HP	Signal Generator	8648C	3623A04150	2017-05-23	2018-05-22
WILTRON	SWEPT FREQUENCY SYNTHESIZER	6737	213001	2017-05-23	2018-05-22
Mini-circuits	Amplifier	ZVA-183-S+	771001215	2017-05-20	2018-05-19
HP	Amplifier	8449B	3008A00277	2016-12-02	2017-12-01
EMCT	Semi-Anechoic Chamber	966	966-1	2015-04-24	2018-04-23
Unknown	RF Cable (below 1GHz)	Unknown	NO.1	2016-11-10	2017-11-09
Unknown	RF Cable (below 1GHz)	Unknown	NO.4	2016-11-10	2017-11-09
Unknown	RF Cable (above 1GHz)	Unknown	NO.2	2016-11-10	2017-11-09
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-011315	2016-08-18	2017-08-18
Ducommun Technologies	Horn Antenna	ARH-2823-02	1007726-011312	2016-08-18	2017-08-18

* **Statement of Traceability:** BACL(Chengdu) attests that all of the calibrations on the equipment items listed above were traceable to NIM or to another internationally recognized National Metrology Institute (NMI), and were compliant with the NIST HB 150-2016 Normative Annex B "Implementation of traceability policy in accredited laboratories".

Test Data

Environmental Conditions

Temperature:	27~28.1 °C
Relative Humidity:	41~60 %
ATM Pressure:	100.1~100.2 kPa

The testing was performed by Lorin Bian from 2017-07-04 to 2017-07-06.

Test mode: Transmitting (Pre-scan with all the bandwidth, and worse case as below)

Band 7: 30MHz-26GHz

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 2535.000 MHz								
5070.000	H	41.34	-52	13.9	4.5	-42.6	-13.0	29.6
5070.000	V	38.49	-55.6	13.9	4.5	-46.2	-13.0	33.2
7605.000	H	37.62	-53.3	13.2	5.7	-45.8	-13.0	32.8
7605.000	V	34.58	-56.3	13.2	5.7	-48.8	-13.0	35.8
375.000	H	45.85	-52.5	0.0	0.6	-53.1	-13.0	40.1
246.000	V	49.70	-56	0.0	0.5	-56.5	-13.0	43.5
16-QAM, Frequency: 2535.000 MHz								
5070.000	H	41.89	-51.4	13.9	4.5	-42.0	-13.0	29.0
5070.000	V	38.93	-55.2	13.9	4.5	-45.8	-13.0	32.8
7605.000	H	38.04	-52.8	13.2	5.7	-45.3	-13.0	32.3
7605.000	V	35.29	-55.6	13.2	5.7	-48.1	-13.0	35.1
543.000	H	45.37	-45	0.0	0.7	-45.7	-13.0	32.7
438.000	V	48.36	-42.2	0.0	0.6	-42.8	-13.0	29.8

Band 40(2305MHz-2320MHz): 30MHz-24GHz

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 2312.000 MHz								
4625.000	H	38.79	-55.7	14.3	4.4	-45.8	-13.0	32.8
4625.000	V	36.31	-58.8	14.3	4.4	-48.9	-13.0	35.9
6937.500	H	35.74	-57.5	13.6	5.3	-49.2	-13.0	36.2
6937.500	V	33.56	-59.2	13.6	5.3	-50.9	-13.0	37.9
267.000	H	42.37	-65.5	0.0	0.5	-66.0	-13.0	53.0
347.000	V	46.42	-52.8	0.0	0.6	-53.4	-13.0	40.4
16-QAM, Frequency: 2312.000 MHz								
4625.000	H	37.03	-57.4	14.3	4.4	-47.5	-13.0	34.5
4625.000	V	36.42	-58.7	14.3	4.4	-48.8	-13.0	35.8
6937.500	H	35.65	-57.6	13.6	5.3	-49.3	-13.0	36.3
6937.500	V	33.87	-58.9	13.6	5.3	-50.6	-13.0	37.6
377.000	H	42.66	-55.5	0.0	0.6	-56.1	-13.0	43.1
436.000	V	48.77	-41.9	0.0	0.6	-42.5	-13.0	29.5

Band 40(2345MHz-2360MHz): 30MHz-24GHz

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 2352.500 MHz								
4705.000	H	38.69	-55.5	14.4	4.2	-45.3	-13.0	32.3
4705.000	V	36.39	-57.9	14.4	4.2	-47.7	-13.0	34.7
7057.500	H	35.76	-57.2	13.3	5.4	-49.3	-13.0	36.3
7057.500	V	33.46	-59.1	13.3	5.4	-51.2	-13.0	38.2
252.000	H	42.42	-65.7	0.0	0.5	-66.2	-13.0	53.2
284.000	V	46.58	-58.6	0.0	0.5	-59.1	-13.0	46.1
16-QAM, Frequency: 2352.500 MHz								
4705.000	H	37.17	-57	14.4	4.2	-46.8	-13.0	33.8
4705.000	V	36.65	-57.7	14.4	4.2	-47.5	-13.0	34.5
7057.500	H	35.53	-57.5	13.3	5.4	-49.6	-13.0	36.6
7057.500	V	33.73	-58.8	13.3	5.4	-50.9	-13.0	37.9
332.000	H	42.91	-60.7	0.0	0.5	-61.2	-13.0	48.2
415.000	V	48.91	-42.9	0.0	0.6	-43.5	-13.0	30.5

Band 41: 30MHz-26GHz

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 2593.000 MHz								
5186.000	H	38.42	-55	14.0	4.8	-45.8	-13.0	32.8
5186.000	V	36.05	-58.8	14.0	4.8	-49.6	-13.0	36.6
7779.000	H	35.27	-55.8	13.3	5.8	-48.3	-13.0	35.3
7779.000	V	33.68	-57.7	13.3	5.8	-50.2	-13.0	37.2
227.000	H	42.80	-65.1	0.0	0.5	-65.6	-13.0	52.6
573.000	V	47.74	-40.5	0.0	0.7	-41.2	-13.0	28.2
16-QAM, Frequency: 2593.000 MHz								
5186.000	H	37.36	-56.1	14.0	4.8	-46.9	-13.0	33.9
5186.000	V	35.89	-59	14.0	4.8	-49.8	-13.0	36.8
7779.000	H	35.43	-55.6	13.3	5.8	-48.1	-13.0	35.1
7779.000	V	34.05	-57.4	13.3	5.8	-49.9	-13.0	36.9
759.000	H	43.20	-47.4	0.0	0.9	-48.3	-13.0	35.3
425.000	V	48.67	-42.6	0.0	0.6	-43.2	-13.0	30.2

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 = Substituted Level - Cable loss + Antenna Gain
- 3) Margin = Limit - Absolute Level