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Report No.: T191105W01-RP8

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**FCC 47 CFR PART 22 SUBPART H AND PART 24 SUBPART E
+
INDUSTRY CANADA RSS-132 & RSS-133**

TEST REPORT

For

Chiron pro

Model No.: N635

Trade Name: Mitac, Mio, Navman, Magellan

Issued to

FCC:	Mitac Digital Technology Corporation No.200, Wen Hwa 2nd Rd.,Kuei Shan Dist. Taoyuan, 33383 Taiwan
IC:	MiTAC Digital Technology Corporation No.200, Wenhua 2nd Rd., Guishan Dist. Taoyuan City 333 Taiwan

Issued by

**Compliance Certification Services Inc.
Wugu Laboratory
No.11, Wugong 6th Rd., Wugu Dist.,
New Taipei City 24891, Taiwan. (R.O.C.)
Issued Date: January 17, 2020**

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Revision History

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1. TEST RESULT CERTIFICATION

FCC Applicant: Mitac Digital Technology Corporation
No.200, Wen Hwa 2nd Rd.,Kuei Shan Dist. Taoyuan, 33383
Taiwan

IC Applicant: MITAC Digital Technology Corporation
No.200, Wenhua 2nd Rd., Guishan Dist. Taoyuan City 333
Taiwan

Manufacturer: MITAC COMPUTER (KUNSHAN) CO., LTD.
No. 269, 2nd Avenue, District A, Comprehensive Free Trade
Zone, Kunshan, Jiangsu, P.R. China

Equipment Under Test: Chiron pro

Trade Name: Mitac, Mio, Navman, Magellan

Model No.: N635

Date of Test: December 6 ~ 19, 2019



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APPLICABLE STANDARDS	
STANDARD	TEST RESULT
FCC 47 CFR PART 22 SUBPART H AND PART 24 SUBPART E + RSS-132 Issue 3 and RSS-133 Issue 6	No non-compliance noted
Statements of Conformity	
Determination of compliance is based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.	

We hereby certify that:

The above equipment was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in TIA -603-E and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC Rule FCC PART 22 Subpart H, PART 24 Subpart E and IC RSS-132 Issue 3 and IC RSS-133 Issue 6.

Approved by:

Tested by:

Kevin Tsai
Deputy Manager
Compliance Certification Services Inc.

Dally Hong
Engineer
Compliance Certification Services Inc.

2. EUT DESCRIPTION

Product	Chiron pro	
Model No.	N635	
Model Discrepancy	Difference of the those trade names (list on this report) are just for marketing purpose only.	
Trade	Mitac, Mio, Navman, Magellan	
Received Date	November 5, 2019	
Power Supply	1. Power from Rechargeable Li-ion Polymer Battery. Rating: 3.7VDC, 4000mAh, 14.8Wh 2. Power from Adapter. I/P: 100-240VAC, 50/60Hz, 0.5A O/P: 5.0VDC, 2A	
Frequency Range	LTE Band 2 Channel Bandwidth: 1.4MHz	1850.7MHz ~1909.2MHz
	LTE Band 2 Channel Bandwidth: 3MHz	1851.5 MHz ~ 1908.4 MHz
	LTE Band 2 Channel Bandwidth: 5MHz	1852.5MHz ~1907.5MHz
	LTE Band 2 Channel Bandwidth: 10MHz	1855MHz ~1905MHz
	LTE Band 2 Channel Bandwidth: 15MHz	1857.5 MHz ~ 1902.5 MHz
	LTE Band 2 Channel Bandwidth: 20MHz	1860MHz ~1900MHz
	LTE Band 5 Channel Bandwidth: 1.4MHz	824.7MHz ~848.2MHz
	LTE Band 5 Channel Bandwidth: 3MHz	825.5 MHz ~ 847.4 MHz
	LTE Band 5 Channel Bandwidth: 5MHz	826.5MHz ~846.5MHz
	LTE Band 5 Channel Bandwidth: 10MHz	829MHz ~844MHz
	LTE Band 2	QPSK, 16QAM
Modulation Technique	LTE Band 5	QPSK, 16QAM
Antenna Specification	Antenna type: Integral Band 2: 2.92 dBi Band 5: 1.84 dBi	

Transmit Power (ERP & EIRP Power)	LTE Band 2 Channel Bandwidth: 1.4MHz	QPSK: 25.41 dBm 16QAM: 24.41 dBm
	LTE Band 2 Channel Bandwidth: 3MHz	QPSK: 25.49 dBm 16QAM: 24.44 dBm
	LTE Band 2 Channel Bandwidth: 5MHz	QPSK: 25.55 dBm 16QAM: 24.57 dBm
	LTE Band 2 Channel Bandwidth: 10MHz	QPSK: 25.68 dBm 16QAM: 24.66 dBm
	LTE Band 2 Channel Bandwidth: 15MHz	QPSK: 25.74 dBm 16QAM: 24.81 dBm
	LTE Band 2 Channel Bandwidth: 20MHz	QPSK: 25.84 dBm 16QAM: 24.86 dBm
	LTE Band 5 Channel Bandwidth: 1.4MHz	QPSK: 23.27 dBm 16QAM: 22.37 dBm
	LTE Band 5 Channel Bandwidth: 3MHz	QPSK: 23.29 dBm 16QAM: 22.48 dBm
	LTE Band 5 Channel Bandwidth: 5MHz	QPSK: 23.32 dBm 16QAM: 22.38 dBm
	LTE Band 5 Channel Bandwidth: 10MHz	QPSK: 23.43 dBm 16QAM: 22.49 dBm

Remark: The sample selected for test was engineering sample that approximated to production product and was provided by manufacturer.

3. TEST METHODOLOGY

Both conducted and radiated testing were performed according to TIA -603-E, FCC CFR 47, Part 2 and Part 22 Subpart H & Part 24 Subpart E.

The tests documented in this report were performed in accordance with IC RSS-132, SPSR503, RSS-133, SPSR510 and ANSI C63.26: 2015.

3.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

3.2 DESCRIPTION OF TEST MODES

The EUT (Model: N635) had been tested under operating condition.

The EUT be set in maximum power transmission via call box during testing.

LTE Band 2: 1850MHz ~ 1910MHz

Three channels had been tested for each channel bandwidth.

Channel	1.4MHz		3MHz		5MHz	
	Channel	Frequency(MHz)	Channel	Frequency(MHz)	Channel	Frequency(MHz)
Lowest	18607	1850.7	18615	1851.5	18625	1852.5
Middle	18900	1880.0	18900	1880.0	18900	1880.0
Highest	19193	1909.2	19184	1908.4	19175	1907.5
Channel	10MHz		15MHz		20MHz	
	Channel	Frequency(MHz)	Channel	Frequency(MHz)	Channel	Frequency(MHz)
Lowest	18650	1855.0	18675	1857.5	18700	1860.0
Middle	18900	1880.0	18900	1880.0	18900	1880.0
Highest	19150	1905.0	19125	1902.5	19100	1900.0

LTE Band 5: 824MHz ~ 849MHz

Three channels had been tested for each channel bandwidth.

Channel	1.4MHz		3MHz	
	Channel	Frequency(MHz)	Channel	Frequency(MHz)
Lowest	20407	824.7	20415	825.5
Middle	20525	836.5	20525	836.5
Highest	20642	848.2	20634	847.4
Channel	5MHz		10MHz	
	Channel	Frequency(MHz)	Channel	Frequency(MHz)
Lowest	20425	826.5	20450	829.0
Middle	20525	836.5	20525	836.5
Highest	20625	846.5	20600	844.0

3.2.1 The worst mode of measurement

Radiated Emission Measurement	
Test Condition	Band edge, Emission for Unwanted and Fundamental
Power supply Mode	Mode1: EUT Power by Battery (DC 3V) Mode2: EUT Power by Adapter + Type C USB Mode3: EUT Power by Type C USB+ CarCharge (DC12V) Mode4: EUT Power by Cradle(N564)+Micro USB+Adapter Mode5: EUT Power by Cradle(N564)+Micro USB+ CarCharge (DC12V) Mode6: EUT Power by Cradle(N564) + Cable(DC 12V) Mode7: EUT Power by Cradle(N564_TN)+Micro USB+Adapter Mode8: EUT Power by Cradle(N564_TN)+Micro USB+ CarCharge (DC12V) Mode9: EUT Power by Cradle(N564_TN) + Cable(DC 12V) Mode10: EUT Power by Cradle(N635_V)+Micro USB+Adapter Mode11: EUT Power by Cradle(N635_V)+Micro USB+ CarCharge (DC12V) Mode12: EUT Power by Cradle(N635_V) + Cable(DC 12V) Mode13: EUT Power by Cradle(N635_VL)+Micro USB+Adapter Mode14: EUT Power by Cradle(N635_VL)+Micro USB+ CarCharge (DC12V) Mode15: EUT Power by Cradle(N635_VL) + Cable(DC 12V) Mode16: EUT Power by Cradle(N635_VHG) + Cable(DC 12V)
Worst Mode	☒ Mode 1 ☐ Mode 2 ☐ Mode 3 ☐ Mode 4
Worst Position	☐ Placed in fixed position. ☐ Placed in fixed position at X-Plane (E2-Plane) ☐ Placed in fixed position at Y-Plane (E1-Plane) ☒ Placed in fixed position at Z-Plane (H-Plane)

Radiated Emission Measurement Below 1G	
Test Condition	Radiated Emission Below 1G
Power supply Mode	Mode1: EUT Power by Battery (DC 3V) Mode2: EUT Power by Adapter + Type C USB Mode3: EUT Power by Type C USB+ CarCharge (DC12V) Mode4: EUT Power by Cradle(N564)+Micro USB+Adapter Mode5: EUT Power by Cradle(N564)+Micro USB+ CarCharge (DC12V) Mode6: EUT Power by Cradle(N564) + Cable(DC 12V) Mode7: EUT Power by Cradle(N564_TN)+Micro USB+Adapter Mode8: EUT Power by Cradle(N564_TN)+Micro USB+ CarCharge (DC12V) Mode9: EUT Power by Cradle(N564_TN) + Cable(DC 12V) Mode10: EUT Power by Cradle(N635_V)+Micro USB+Adapter Mode11: EUT Power by Cradle(N635_V)+Micro USB+ CarCharge (DC12V) Mode12: EUT Power by Cradle(N635_V) + Cable(DC 12V) Mode13: EUT Power by Cradle(N635_VL)+Micro USB+Adapter Mode14: EUT Power by Cradle(N635_VL)+Micro USB+ CarCharge (DC12V) Mode15: EUT Power by Cradle(N635_VL) + Cable(DC 12V) Mode16: EUT Power by Cradle(N635_VHG) + Cable(DC 12V)
Worst Mode	☒ Mode 1 ☐ Mode 2 ☐ Mode 3 ☐ Mode 4

Remark:

1. The worst mode was record in this test report.
2. EUT pre-scanned in three axis ,X,Y, Z and two polarity, for radiated measurement. The worst case(Z-Plane) were recorded in this report

4. TEST SUMMERY

FCC Standard Sec.	IC Standard Sec.	Report Section	Test Item	Result
-	-	2	Antenna Requirement	Pass
22.913(a), 24.232(c)	RSS-132, section 5.4 RSS-133, section 6.4	8.1	ERP and EIRP Measurement	Pass
2.1055, 22.355, 24.235	RSS-132 section 5.3 RSS-133 section 6.3	8.2	Frequency Stability v.s. temperature measurement	Pass
2.1049	RSS-GEN 6.7	8.3	Occupied Bandwidth Measurement	Pass
22.917(a), 24.238(a)	RSS-132 section 5.5 RSS-133 section 6.5	8.4	Conducted Band Edge	Pass
22.913(d), 24.232(d)	RSS-132, section 5.4 RSS-133, section 6.4	8.5	Peak to Average Ratio	Pass
22.917(a), 24.238(a)	RSS-132 section 5.5 RSS-133 section 6.5	8.6	Conducted Spurious Emission	Pass
22.917(a), 24.238(a)	RSS-132 section 5.5 RSS-133 section 6.5	8.7	Spurious Radiation Measurement	Pass

5. INSTRUMENT CALIBRATION

5.1 MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

5.2 MEASUREMENT EQUIPMENT USED

Equipment Used for Emissions Measurement

Remark: Each piece of equipment is scheduled for calibration once a year.

RF Conducted Test Site					
Equipment	Manufacturer	Model	S/N	Cal Date	Cal Due
Coaxial Cable	Woken	WC12	CC003	06/28/2019	06/27/2020
Power Divider	Solvang Technology	STI08-0015	008	08/06/2019	08/05/2020
Signal Analyzer	R&S	FSV 40	101073	09/25/2019	09/24/2020
Wideband Radio Communication Tester	R&S	CMW 500	116875	07/29/2019	07/28/2020
Software	N/A				

3M 966 Chamber Test Site					
Equipment	Manufacturer	Model	S/N	Cal Date	Cal Due
Band Reject Filters	MICRO TRONICS	BRM 50702	120	02/26/2019	02/25/2020
Bilog Antenna	Sunol Sciences	JB3	A030105	07/26/2019	07/25/2020
Coaxial Cable	HUBER SUHNER	SUCOFLEX 104PEA	20995	02/26/2019	02/25/2020
Coaxial Cable	EMCI	EMC105	190914+25111	09/20/2019	09/19/2020
Digital Thermo-Hygro Meter	WISEWIND	1206	D07	01/30/2019	01/29/2020
double Ridged Guide Horn Antenna	ETC	MCTD 1209	DRH13M02003	10/04/2019	10/03/2020
Loop Ant	COM-POWER	AL-130	121051	03/22/2019	03/21/2020
Pre-Amplifier	EMEC	EM330	060609	02/26/2019	02/25/2020
Pre-Amplifier	HP	8449B	3008A00965	02/26/2019	02/25/2020
Wideband Radio Communication Tester	R&S	CMW 500	116875	07/29/2019	07/28/2020
PSA Series Spectrum Analyzer	Agilent	E4446A	MY46180323	05/29/2019	05/28/2020
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R
Software	e3 6.11-20180413				



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5.3 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
AC Powerline Conducted Emission	+/- 1.2575
Emission bandwidth, 20dB bandwidth	+/- 0.0014
RF output power, conducted	+/- 1.14
Power density, conducted	+/- 1.40
3M Semi Anechoic Chamber / 30M~200M	+/- 4.12
3M Semi Anechoic Chamber / 200M~1000M	+/- 4.68
3M Semi Anechoic Chamber / 1G~8G	+/- 5.18
3M Semi Anechoic Chamber / 8G~18G	+/- 5.47
3M Semi Anechoic Chamber / 18G~26G	+/- 3.81
3M Semi Anechoic Chamber / 26G~40G	+/- 3.87

Remark: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

6. FACILITIES AND ACCREDITATIONS

6.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

☐ No.199, Chunghsen Road, Hsintien City, Taipei Hsien, Taiwan, R.O.C.

Tel: 886-2-2217-0894 / Fax: 886-2-2217-1029

☒ No.11, Wugong 6th Rd., Wugu Dist., New Taipei City 24891, Taiwan. (R.O.C.)

Tel: 886-2-2299-9720 / Fax: 886-2-2298-4045

☐ No.81-1, Lane 210, Bade 2nd Rd., Lujhu Township, Taoyuan County 33841, TAIWAN, R.O.C.

Tel: 886-3-324-0332 / Fax: 886-3-324-5235

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10: 2013 and CISPR Publication 22.

6.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

6.3 LABORATORY ACCREDITATIONS AND LISTING

The test facilities used to perform radiated and conducted emissions tests are accredited by American Association for Laboratory Accreditation Program for the specific scope accreditation under Lab Code: 0824-01 to perform Electromagnetic Interference tests according to FCC Part 15 and CISPR 22 requirements. In addition, the test facilities are listed with Industry Canada, Certification and Engineering Bureau, IC 2324G-1 for 3M Semi Anechoic Chamber A, 2324G-2 for 3M Semi Anechoic Chamber B.



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7. SETUP OF EQUIPMENT UNDER TEST

7.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix II for the actual connections between EUT and support equipment.

7.2 SUPPORT EQUIPMENT

No	Equipment	Brand	Model	Series No.	FCC ID
	N/A				

Remark:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

8. FCC PART 22 & 24 REQUIREMENTS & INDUSTRY CANADA RSS-132 & RSS-133

8.1 ERP & EIRP MEASUREMENT

LIMIT

According to FCC §2.1046

FCC 22.913(b):

The Effective Radiated Power (ERP) of mobile transmitters must not exceed 7 Watts.

FCC 24.232(b):

The equivalent Isotropic Radiated Power (EIRP) must not exceed 2 Watts.

RSS-132 § 5.4 The maximum (ERP) shall be 6.3 Watts for mobile stations.

RSS133 § 6.4: Mobile stations and hand-held portables are limited to 2 watts maximum (EIRP).

TEST PROCEDURES

CONDUCTED POWER MEASUREMENT:

1. The transmitter output power was connected to the call box.
2. Set EUT at maximum output power via call box.
3. Set Call box at lowest, middle and highest channels for each band and modulation.

TEST RESULTS

No non-compliance noted.

LTE Band 2

BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	EIRP (dBm)
20	QPSK	1 RB	0	1860	18700	22.84	25.76
				1880	18900	22.85	25.77
				1900	19100	22.92	25.84
			49	1860	18700	22.29	25.21
				1880	18900	22.72	25.64
				1900	19100	22.35	25.27
			99	1860	18700	22.72	25.64
				1880	18900	22.67	25.59
				1900	19100	22.89	25.81
		50 RB	0	1860	18700	21.44	24.36
				1880	18900	21.34	24.26
				1900	19100	21.46	24.38
			24	1860	18700	21.28	24.20
				1880	18900	21.11	24.03
				1900	19100	21.35	24.27
			50	1860	18700	21.39	24.31
				1880	18900	21.3	24.22
				1900	19100	21.43	24.35
		100RB		1860	18700	21.58	24.50
				1880	18900	21.39	24.31
				1900	19100	21.59	24.51

20	16-QAM	1 RB	0	1860	18700	21.92	24.84	
				1880	18900	21.82	24.74	
				1900	19100	21.85	24.77	
			49	1860	18700	21.55	24.47	
				1880	18900	21.42	24.34	
				1900	19100	21.56	24.48	
			99	1860	18700	21.94	24.86	
				1880	18900	21.93	24.85	
				1900	19100	21.84	24.76	
		50 RB	0	1860	18700	20.49	23.41	
				1880	18900	20.37	23.29	
				1900	19100	20.47	23.39	
			24	1860	18700	20.37	23.29	
				1880	18900	20.15	23.07	
				1900	19100	20.4	23.32	
			50	1860	18700	20.44	23.36	
				1880	18900	20.37	23.29	
				1900	19100	20.47	23.39	
		100RB			1860	18700	20.57	23.49
					1880	18900	20.36	23.28
					1900	19100	20.58	23.50
20	64-QAM	1 RB	0	1860	18700	20.96	23.88	
				1880	18900	20.88	23.80	
				1900	19100	20.96	23.88	
			49	1860	18700	20.45	23.37	
				1880	18900	20.29	23.21	
				1900	19100	20.39	23.31	
			99	1860	18700	20.88	23.80	
				1880	18900	20.82	23.74	
				1900	19100	20.82	23.74	
		50 RB	0	1860	18700	19.49	22.41	
				1880	18900	19.35	22.27	
				1900	19100	19.48	22.40	
			24	1860	18700	19.35	22.27	
				1880	18900	19.3	22.22	
				1900	19100	19.4	22.32	
			50	1860	18700	19.45	22.37	
				1880	18900	19.31	22.23	
				1900	19100	19.45	22.37	
		100RB			1860	18700	19.58	22.50
					1880	18900	19.35	22.27
					1900	19100	19.54	22.46

BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	EIRP (dBm)
15	QPSK	1 RB	0	1857.5	18675	22.78	25.70
				1880	18900	22.76	25.68
				1902.5	19125	22.82	25.74
			36	1857.5	18675	22.17	25.09
				1880	18900	22.68	25.60
				1902.5	19125	22.29	25.21
			74	1857.5	18675	22.50	25.42
				1880	18900	22.51	25.43
				1902.5	19125	22.79	25.71
		36 RB	0	1857.5	18675	21.41	24.33
				1880	18900	21.15	24.07
				1902.5	19125	21.29	24.21
			18	1857.5	18675	21.06	23.98
				1880	18900	21.02	23.94
				1902.5	19125	21.16	24.08
			37	1857.5	18675	21.30	24.22
				1880	18900	21.26	24.18
				1902.5	19125	21.31	24.23
		75RB	1857.5	18675	21.55	24.47	
			1880	18900	21.27	24.19	
			1902.5	19125	21.53	24.45	
15	16-QAM	1 RB	0	1857.5	18675	21.89	24.81
				1880	18900	21.74	24.66
				1902.5	19125	21.70	24.62
			36	1857.5	18675	21.41	24.33
				1880	18900	21.39	24.31
				1902.5	19125	21.49	24.41
			74	1857.5	18675	21.75	24.67
				1880	18900	21.83	24.75
				1902.5	19125	21.62	24.54
		36 RB	0	1857.5	18675	20.35	23.27
				1880	18900	20.20	23.12
				1902.5	19125	20.40	23.32
			18	1857.5	18675	20.25	23.17
				1880	18900	20.00	22.92
				1902.5	19125	20.26	23.18
			37	1857.5	18675	20.41	23.33
				1880	18900	20.18	23.10
				1902.5	19125	20.25	23.17
		75RB	1857.5	18675	20.38	23.30	
			1880	18900	20.23	23.15	
			1902.5	19125	20.55	23.47	



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15	64-QAM	1 RB	0	1857.5	18675	20.90	23.82
				1880	18900	20.68	23.60
				1902.5	19125	20.87	23.79
			36	1857.5	18675	20.37	23.29
				1880	18900	20.11	23.03
				1902.5	19125	20.17	23.09
			74	1857.5	18675	20.74	23.66
				1880	18900	20.78	23.70
				1902.5	19125	20.62	23.54
		36 RB	0	1857.5	18675	19.41	22.33
				1880	18900	19.13	22.05
				1902.5	19125	19.32	22.24
			18	1857.5	18675	19.24	22.16
				1880	18900	18.98	21.90
				1902.5	19125	19.25	22.17
			37	1857.5	18675	19.24	22.16
				1880	18900	19.10	22.02
				1902.5	19125	19.32	22.24
		75RB		1857.5	18675	19.37	22.29
				1880	18900	19.16	22.08
				1902.5	19125	19.48	22.40

BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	EIRP (dBm)
10	QPSK	1 RB	0	1855	18650	22.56	25.48
				1880	18900	22.57	25.49
				1905	19150	22.76	25.68
			25	1855	18650	22.07	24.99
				1880	18900	22.47	25.39
				1905	19150	22.21	25.13
			49	1855	18650	22.35	25.27
				1880	18900	22.30	25.22
				1905	19150	22.67	25.59
		25 RB	0	1855	18650	21.38	24.30
				1880	18900	21.04	23.96
				1905	19150	21.25	24.17
			12	1855	18650	20.95	23.87
				1880	18900	20.86	23.78
				1905	19150	20.97	23.89
			25	1855	18650	21.12	24.04
				1880	18900	21.06	23.98
				1905	19150	21.20	24.12
		50RB	1855	18650	21.51	24.43	
			1880	18900	21.22	24.14	
			1905	19150	21.45	24.37	
10	16-QAM	1 RB	0	1855	18650	21.74	24.66
				1880	18900	21.59	24.51
				1905	19150	21.49	24.41
			25	1855	18650	21.24	24.16
				1880	18900	21.30	24.22
				1905	19150	21.33	24.25
			49	1855	18650	21.72	24.64
				1880	18900	21.69	24.61
				1905	19150	21.52	24.44
		25 RB	0	1855	18650	20.17	23.09
				1880	18900	20.17	23.09
				1905	19150	20.21	23.13
			12	1855	18650	20.12	23.04
				1880	18900	19.83	22.75
				1905	19150	20.11	23.03
			25	1855	18650	20.24	23.16
				1880	18900	20.15	23.07
				1905	19150	20.14	23.06
		50RB	1855	18650	20.31	23.23	
			1880	18900	20.07	22.99	
			1905	19150	20.40	23.32	



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10	64-QAM	1 RB	0	1855	18650	20.71	23.63
				1880	18900	20.56	23.48
				1905	19150	20.81	23.73
			25	1855	18650	20.16	23.08
				1880	18900	20.08	23.00
				1905	19150	20.14	23.06
			49	1855	18650	20.67	23.59
				1880	18900	20.64	23.56
				1905	19150	20.59	23.51
		25 RB	0	1855	18650	19.29	22.21
				1880	18900	19.05	21.97
				1905	19150	19.24	22.16
			12	1855	18650	19.02	21.94
				1880	18900	18.79	21.71
				1905	19150	19.13	22.05
			25	1855	18650	19.03	21.95
				1880	18900	18.93	21.85
				1905	19150	19.27	22.19
		50RB		1855	18650	19.18	22.10
				1880	18900	18.98	21.90
				1905	19150	19.29	22.21

BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	EIRP (dBm)
5	QPSK	1 RB	0	1852.5	18625	22.42	25.34
				1880	18900	22.46	25.38
				1907.5	19175	22.63	25.55
			12	1852.5	18625	21.94	24.86
				1880	18900	22.26	25.18
				1907.5	19175	22.17	25.09
			24	1852.5	18625	22.26	25.18
				1880	18900	22.18	25.10
				1907.5	19175	22.45	25.37
		12 RB	0	1852.5	18625	21.24	24.16
				1880	18900	20.84	23.76
				1907.5	19175	21.08	24.00
			6	1852.5	18625	20.86	23.78
				1880	18900	20.81	23.73
				1907.5	19175	20.85	23.77
			13	1852.5	18625	21.04	23.96
				1880	18900	20.85	23.77
				1907.5	19175	21.14	24.06
		25RB	1852.5	18625	21.47	24.39	
			1880	18900	21.08	24.00	
			1907.5	19175	21.23	24.15	
5	16-QAM	1 RB	0	1852.5	18625	21.62	24.54
				1880	18900	21.44	24.36
				1907.5	19175	21.33	24.25
			12	1852.5	18625	21.20	24.12
				1880	18900	21.08	24.00
				1907.5	19175	21.23	24.15
			24	1852.5	18625	21.65	24.57
				1880	18900	21.56	24.48
				1907.5	19175	21.35	24.27
		12 RB	0	1852.5	18625	20.08	23.00
				1880	18900	20.02	22.94
				1907.5	19175	20.08	23.00
			6	1852.5	18625	20.00	22.92
				1880	18900	19.70	22.62
				1907.5	19175	19.96	22.88
			13	1852.5	18625	20.04	22.96
				1880	18900	20.05	22.97
				1907.5	19175	20.11	23.03
		25RB	1852.5	18625	20.20	23.12	
			1880	18900	19.87	22.79	
			1907.5	19175	20.34	23.26	



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5	64-QAM	1 RB	0	1852.5	18625	20.66	23.58
				1880	18900	20.41	23.33
				1907.5	19175	20.69	23.61
			12	1852.5	18625	20.00	22.92
				1880	18900	19.97	22.89
				1907.5	19175	20.01	22.93
			24	1852.5	18625	20.53	23.45
				1880	18900	20.60	23.52
				1907.5	19175	20.45	23.37
		12 RB	0	1852.5	18625	19.26	22.18
				1880	18900	18.94	21.86
				1907.5	19175	19.04	21.96
			6	1852.5	18625	18.81	21.73
				1880	18900	18.73	21.65
				1907.5	19175	18.99	21.91
			13	1852.5	18625	18.92	21.84
				1880	18900	18.86	21.78
				1907.5	19175	19.23	22.15
		25RB		1852.5	18625	18.97	21.89
				1880	18900	18.86	21.78
				1907.5	19175	19.16	22.08

BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	EIRP (dBm)	
3	QPSK	1 RB	0	1851.5	18615	22.27	25.19	
				1880	18900	22.31	25.23	
				1908.5	19185	22.57	25.49	
			7	1851.5	18615	21.79	24.71	
				1880	18900	22.10	25.02	
				1908.5	19185	21.95	24.87	
			14	1851.5	18615	22.07	24.99	
				1880	18900	22.03	24.95	
				1908.5	19185	22.24	25.16	
		8 RB	0	1851.5	18615	21.04	23.96	
				1880	18900	20.80	23.72	
				1908.5	19185	20.86	23.78	
			4	1851.5	18615	20.64	23.56	
				1880	18900	20.70	23.62	
				1908.5	19185	20.69	23.61	
			7	1851.5	18615	20.85	23.77	
				1880	18900	20.81	23.73	
				1908.5	19185	21.11	24.03	
		15RB			1851.5	18615	21.26	24.18
					1880	18900	20.97	23.89
					1908.5	19185	21.19	24.11
3	16-QAM	1 RB	0	1851.5	18615	21.43	24.35	
				1880	18900	21.39	24.31	
				1908.5	19185	21.23	24.15	
			7	1851.5	18615	21.00	23.92	
				1880	18900	20.86	23.78	
				1908.5	19185	21.01	23.93	
			14	1851.5	18615	21.47	24.39	
				1880	18900	21.52	24.44	
				1908.5	19185	21.21	24.13	
		8 RB	0	1851.5	18615	20.05	22.97	
				1880	18900	19.93	22.85	
				1908.5	19185	19.99	22.91	
			4	1851.5	18615	19.82	22.74	
				1880	18900	19.62	22.54	
				1908.5	19185	19.87	22.79	
			7	1851.5	18615	19.87	22.79	
				1880	18900	19.99	22.91	
				1908.5	19185	19.95	22.87	
		15RB			1851.5	18615	20.02	22.94
					1880	18900	19.78	22.70
					1908.5	19185	20.20	23.12



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3	64-QAM	1 RB	0	1851.5	18615	20.46	23.38
				1880	18900	20.33	23.25
				1908.5	19185	20.57	23.49
			7	1851.5	18615	19.86	22.78
				1880	18900	19.84	22.76
				1908.5	19185	19.97	22.89
			14	1851.5	18615	20.44	23.36
				1880	18900	20.40	23.32
				1908.5	19185	20.24	23.16
		8 RB	0	1851.5	18615	19.20	22.12
				1880	18900	18.74	21.66
				1908.5	19185	18.98	21.90
			4	1851.5	18615	18.65	21.57
				1880	18900	18.51	21.43
				1908.5	19185	18.89	21.81
			7	1851.5	18615	18.79	21.71
				1880	18900	18.67	21.59
				1908.5	19185	19.01	21.93
		15RB		1851.5	18615	18.83	21.75
				1880	18900	18.81	21.73
				1908.5	19185	19.04	21.96

BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	EIRP (dBm)	
1.4	QPSK	1 RB	0	1850.7	18607	22.06	24.98	
				1880	18900	22.20	25.12	
				1909.3	19193	22.49	25.41	
			2	1850.7	18607	21.73	24.65	
				1880	18900	21.96	24.88	
				1909.3	19193	21.89	24.81	
			5	1850.7	18607	22.00	24.92	
				1880	18900	21.82	24.74	
				1909.3	19193	22.14	25.06	
		3 RB	0	1850.7	18607	20.88	23.80	
				1880	18900	20.77	23.69	
				1909.3	19193	20.83	23.75	
			2	1850.7	18607	20.42	23.34	
				1880	18900	20.64	23.56	
				1909.3	19193	20.55	23.47	
			3	1850.7	18607	20.67	23.59	
				1880	18900	20.67	23.59	
				1909.3	19193	21.06	23.98	
		6RB			1850.7	18607	21.19	24.11
					1880	18900	20.78	23.70
					1909.3	19193	21.13	24.05
1.4	16-QAM	1 RB	0	1850.7	18607	21.40	24.32	
				1880	18900	21.23	24.15	
				1909.3	19193	21.07	23.99	
			2	1850.7	18607	20.78	23.70	
				1880	18900	20.72	23.64	
				1909.3	19193	20.86	23.78	
			5	1850.7	18607	21.35	24.27	
				1880	18900	21.49	24.41	
				1909.3	19193	21.18	24.10	
		3 RB	0	1850.7	18607	20.21	23.13	
				1880	18900	20.01	22.93	
				1909.3	19193	20.15	23.07	
			2	1850.7	18607	20.01	22.93	
				1880	18900	20.13	23.05	
				1909.3	19193	20.08	23.00	
			3	1850.7	18607	20.01	22.93	
				1880	18900	20.21	23.13	
				1909.3	19193	20.20	23.12	
		6RB			1850.7	18607	19.86	22.78
					1880	18900	19.59	22.51
					1909.3	19193	20.10	23.02



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1.4	64-QAM	1 RB	0	1850.7	18607	20.43	23.35
				1880	18900	20.29	23.21
				1909.3	19193	20.49	23.41
			2	1850.7	18607	19.66	22.58
				1880	18900	19.65	22.57
				1909.3	19193	19.76	22.68
			5	1850.7	18607	20.37	23.29
				1880	18900	20.23	23.15
				1909.3	19193	20.21	23.13
		3 RB	0	1850.7	18607	19.02	21.94
				1880	18900	19.22	22.14
				1909.3	19193	19.28	22.20
			2	1850.7	18607	19.29	22.21
				1880	18900	19.25	22.17
				1909.3	19193	19.21	22.13
			3	1850.7	18607	19.01	21.93
				1880	18900	19.01	21.93
				1909.3	19193	19.26	22.18
		6RB		1850.7	18607	18.77	21.69
				1880	18900	18.62	21.54
				1909.3	19193	18.95	21.87

LTE Band 5

BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	ERP (dBm)
10	QPSK	1 RB	0	829	20450	23.43	23.12
				836.5	20525	23.74	23.43
				844	20600	23.68	23.37
			25	829	20450	23.37	23.06
				836.5	20525	23.5	23.19
				844	20600	23.66	23.35
			49	829	20450	23.38	23.07
				836.5	20525	23.36	23.05
				844	20600	23.23	22.92
		25 RB	0	829	20450	22.67	22.36
				836.5	20525	22.74	22.43
				844	20600	22.71	22.40
			12	829	20450	21.94	21.63
				836.5	20525	22.38	22.07
				844	20600	22.66	22.35
			25	829	20450	22.07	21.76
				836.5	20525	22.77	22.46
				844	20600	22.75	22.44
		50RB		829	20450	22.01	21.70
				836.5	20525	22.67	22.36
				844	20600	22.65	22.34
10	16-QAM	1 RB	0	829	20450	22.3	21.99
				836.5	20525	22.72	22.41
				844	20600	22.62	22.31
			25	829	20450	22.36	22.05
				836.5	20525	22.69	22.38
				844	20600	22.8	22.49
			49	829	20450	22.76	22.45
				836.5	20525	22.8	22.49
				844	20600	22.72	22.41
		25 RB	0	829	20450	20.97	20.66
				836.5	20525	21.44	21.13
				844	20600	21.63	21.32
			12	829	20450	20.9	20.59
				836.5	20525	21.44	21.13
				844	20600	21.64	21.33
			25	829	20450	21.08	20.77
				836.5	20525	21.46	21.15
				844	20600	21.74	21.43
		50RB		829	20450	20.97	20.66
				836.5	20525	21.45	21.14
				844	20600	21.62	21.31



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10	64-QAM	1 RB	0	829	20450	21.14	20.83
				836.5	20525	21.73	21.42
				844	20600	21.78	21.47
			25	829	20450	21.1	20.79
				836.5	20525	21.53	21.22
				844	20600	21.71	21.40
			49	829	20450	21.62	21.31
				836.5	20525	21.74	21.43
				844	20600	21.71	21.40
		25 RB	0	829	20450	20.49	20.18
				836.5	20525	20.44	20.13
				844	20600	20.62	20.31
			12	829	20450	20.61	20.30
				836.5	20525	20.43	20.12
				844	20600	20.62	20.31
			25	829	20450	20.56	20.25
				836.5	20525	20.45	20.14
				844	20600	20.71	20.40
		50RB		829	20450	20.53	20.22
				836.5	20525	20.42	20.11
				844	20600	20.62	20.31

BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	ERP (dBm)	
5	QPSK	1 RB	0	826.5	20425	23.14	22.83	
				836.5	20525	23.52	23.21	
				846.5	20625	23.46	23.15	
			12	826.5	20425	23.33	23.02	
				836.5	20525	23.27	22.96	
				846.5	20625	23.63	23.32	
			24	826.5	20425	23.12	22.81	
				836.5	20525	23.21	22.90	
				846.5	20625	23.17	22.86	
		12 RB	0	826.5	20425	22.44	22.13	
				836.5	20525	22.12	21.81	
				846.5	20625	22.51	22.20	
			6	826.5	20425	21.87	21.56	
				836.5	20525	22.19	21.88	
				846.5	20625	22.64	22.33	
			13	826.5	20425	21.77	21.46	
				836.5	20525	22.34	22.03	
				846.5	20625	22.51	22.20	
		25RB			826.5	20425	21.88	21.57
					836.5	20525	22.18	21.87
					846.5	20625	22.46	22.15
5	16-QAM	1 RB	0	826.5	20425	22.19	21.88	
				836.5	20525	22.56	22.25	
				846.5	20625	22.4	22.09	
			12	826.5	20425	22.31	22.00	
				836.5	20525	22.69	22.38	
				846.5	20625	22.67	22.36	
			24	826.5	20425	22.48	22.17	
				836.5	20525	22.57	22.26	
				846.5	20625	22.6	22.29	
		12 RB	0	826.5	20425	20.92	20.61	
				836.5	20525	21.38	21.07	
				846.5	20625	21.33	21.02	
			6	826.5	20425	20.74	20.43	
				836.5	20525	21.41	21.10	
				846.5	20625	21.39	21.08	
			13	826.5	20425	20.9	20.59	
				836.5	20525	21.26	20.95	
				846.5	20625	21.72	21.41	
		25RB			826.5	20425	20.67	20.36
					836.5	20525	21.2	20.89
					846.5	20625	21.59	21.28



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5	64-QAM	1 RB	0	826.5	20425	21.1	20.79
				836.5	20525	21.54	21.23
				846.5	20625	21.54	21.23
			12	826.5	20425	20.95	20.64
				836.5	20525	21.52	21.21
				846.5	20625	21.48	21.17
			24	826.5	20425	21.45	21.14
				836.5	20525	21.52	21.21
				846.5	20625	21.57	21.26
		12 RB	0	826.5	20425	20.4	20.09
				836.5	20525	20.35	20.04
				846.5	20625	20.44	20.13
			6	826.5	20425	20.6	20.29
				836.5	20525	20.3	19.99
				846.5	20625	20.51	20.20
			13	826.5	20425	20.43	20.12
				836.5	20525	20.3	19.99
				846.5	20625	20.68	20.37
		25RB		826.5	20425	20.52	20.21
				836.5	20525	20.42	20.11
				846.5	20625	20.55	20.24

BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	ERP (dBm)	
3	QPSK	1 RB	0	825.5	20415	23.25	22.94	
				836.5	20525	23.55	23.24	
				847.5	20635	23.6	23.29	
			7	825.5	20415	23.23	22.92	
				836.5	20525	23.38	23.07	
				847.5	20635	23.47	23.16	
			14	825.5	20415	23.34	23.03	
				836.5	20525	23.23	22.92	
				847.5	20635	23.14	22.83	
		8 RB	0	825.5	20415	22.47	22.16	
				836.5	20525	22.27	21.96	
				847.5	20635	22.43	22.12	
			4	825.5	20415	21.9	21.59	
				836.5	20525	22.18	21.87	
				847.5	20635	22.54	22.23	
			7	825.5	20415	22.01	21.70	
				836.5	20525	22.31	22.00	
				847.5	20635	22.6	22.29	
		15RB			825.5	20415	21.84	21.53
					836.5	20525	22.18	21.87
					847.5	20635	22.47	22.16
3	16-QAM	1 RB	0	825.5	20415	22.27	21.96	
				836.5	20525	22.53	22.22	
				847.5	20635	22.52	22.21	
			7	825.5	20415	22.29	21.98	
				836.5	20525	22.51	22.20	
				847.5	20635	22.79	22.48	
			14	825.5	20415	22.7	22.39	
				836.5	20525	22.65	22.34	
				847.5	20635	22.59	22.28	
		8 RB	0	825.5	20415	20.77	20.46	
				836.5	20525	21.43	21.12	
				847.5	20635	21.48	21.17	
			4	825.5	20415	20.73	20.42	
				836.5	20525	21.32	21.01	
				847.5	20635	21.62	21.31	
			7	825.5	20415	20.96	20.65	
				836.5	20525	21.27	20.96	
				847.5	20635	21.54	21.23	
		15RB			825.5	20415	20.83	20.52
					836.5	20525	21.43	21.12
					847.5	20635	21.56	21.25

3	64-QAM	1 RB	0	825.5	20415	21.01	20.70
				836.5	20525	21.62	21.31
				847.5	20635	21.77	21.46
			7	825.5	20415	20.9	20.59
				836.5	20525	21.37	21.06
				847.5	20635	21.55	21.24
			14	825.5	20415	21.51	21.20
				836.5	20525	21.63	21.32
				847.5	20635	21.58	21.27
		8 RB	0	825.5	20415	20.3	19.99
				836.5	20525	20.31	20.00
				847.5	20635	20.43	20.12
			4	825.5	20415	20.3	19.99
				836.5	20525	20.31	20.00
				847.5	20635	20.51	20.20
			7	825.5	20415	20.47	20.16
				836.5	20525	20.45	20.14
				847.5	20635	20.57	20.26
		15RB		825.5	20415	20.3	19.99
				836.5	20525	20.34	20.03
				847.5	20635	20.44	20.13

BW(MHz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	ERP (dBm)
1.4	QPSK	1 RB	0	824.7	20407	23.19	22.88
				836.5	20525	23.38	23.07
				848.3	20643	23.58	23.27
			2	824.7	20407	23.22	22.91
				836.5	20525	23.43	23.12
				848.3	20643	23.50	23.19
			5	824.7	20407	23.20	22.89
				836.5	20525	23.08	22.77
				848.3	20643	23.16	22.85
		3 RB	0	824.7	20407	22.59	22.28
				836.5	20525	22.16	21.85
				848.3	20643	22.30	21.99
			2	824.7	20407	21.74	21.43
				836.5	20525	22.21	21.90
				848.3	20643	22.52	22.21
			3	824.7	20407	22.03	21.72
				836.5	20525	22.26	21.95
				848.3	20643	22.57	22.26
		6RB		824.7	20407	21.98	21.67
				836.5	20525	22.10	21.79
				848.3	20643	22.45	22.14
1.4	16-QAM	1 RB	0	824.7	20407	22.11	21.80
				836.5	20525	22.58	22.27
				848.3	20643	22.49	22.18
			2	824.7	20407	22.16	21.85
				836.5	20525	22.57	22.26
				848.3	20643	22.59	22.28
			5	824.7	20407	22.60	22.29
				836.5	20525	22.68	22.37
				848.3	20643	22.68	22.37
		3 RB	0	824.7	20407	20.79	20.48
				836.5	20525	21.24	20.93
				848.3	20643	21.51	21.20
			2	824.7	20407	20.63	20.32
				836.5	20525	21.18	20.87
				848.3	20643	21.44	21.13
			3	824.7	20407	21.01	20.70
				836.5	20525	21.25	20.94
				848.3	20643	21.55	21.24
		6RB		824.7	20407	20.93	20.62
				836.5	20525	21.42	21.11
				848.3	20643	21.39	21.08



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1.4	64-QAM	1 RB	0	824.7	20407	21.07	20.76
				836.5	20525	21.69	21.38
				848.3	20643	21.78	21.47
			2	824.7	20407	20.90	20.59
				836.5	20525	21.50	21.19
				848.3	20643	21.71	21.40
			5	824.7	20407	21.47	21.16
				836.5	20525	21.50	21.19
				848.3	20643	21.65	21.34
		3 RB	0	824.7	20407	20.20	19.89
				836.5	20525	20.24	19.93
				848.3	20643	20.43	20.12
			2	824.7	20407	20.26	19.95
				836.5	20525	20.16	19.85
				848.3	20643	20.35	20.04
			3	824.7	20407	20.45	20.14
				836.5	20525	20.24	19.93
				848.3	20643	20.71	20.40
		6RB		824.7	20407	20.39	20.08
				836.5	20525	20.39	20.08
				848.3	20643	20.62	20.31

8.2 FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

LIMIT

According to FCC §2.1055, FCC §22.355, FCC §24.235.

Frequency Tolerance: +/- 2.5ppm

According to RSS-132 section 5.3,

The carrier frequency shall not depart from the reference frequency, in excess of ± 2.5 ppm for mobile stations and ± 1.0 ppm for base stations.

In lieu of meeting the above stability values, the test report may show that the frequency stability is sufficient to ensure that the emission bandwidth stays within the operating frequency block when tested to the temperature and supply voltage variations specified in RSS-Gen.

According to RSS -133 section 6.3,

The carrier frequency shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations and ± 1.5 ppm for base stations.

In lieu of meeting the above stability values, the test report may show that the frequency stability is sufficient to ensure that the occupied bandwidth stays within each of the sub-bands (see Section 5.1) when tested to the temperature and supply voltage variations specified in RSS-Gen.

Test Procedure

Use Anritsu 8820 with frequency Error measurement capability.

Temp = -35°C to $+65^{\circ}\text{C}$

Voltage= 85% to 115% of the nominal value for AC powered equipment.

NOTE: The frequency error was recorded frequency error from the communication simulator.

TEST RESULTS

No non-compliance noted.

Test Results**FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT:****LTE Band 2 / QPSK**

Reference Frequency: LTE Band 2, 1880 MHz at 20(°C)				
Limit: □ 2.5 ppm = 4700 Hz				
Power Supply (Vac)	Environment Temperature (°C)	BW: 10M Frequency Error(Hz)	Frequency Error (ppm)	Limit (ppm)
120	65	0.01	0.000005	+/- 2.5
120	50	0.01	0.000005	
120	40	0.00	0.000000	
120	30	0.01	0.000005	
120	20	0.02	0.000011	
120	10	0.03	0.000016	
120	0	0.02	0.000011	
120	-10	0.02	0.000011	
120	-20	0.03	0.000016	
120	-35	0.04	0.0000	

LTE Band 2 / 16QAM

Reference Frequency: LTE Band 2, 1880 MHz at 20(°C)				
Limit: □ 2.5 ppm = 4700 Hz				
Power Supply (Vac)	Environment Temperature (°C)	BW: 10M Frequency Error(Hz)	Frequency Error (ppm)	Limit (ppm)
120	65	0.01	0.000005	+/- 2.5
120	50	0.01	0.000005	
120	40	0.00	0.000000	
120	30	0.01	0.000005	
120	20	0.01	0.000005	
120	10	0.02	0.000011	
120	0	0.01	0.000005	
120	-10	0.02	0.000011	
120	-20	0.01	0.000005	
120	-35	-6.12	-0.0033	

LTE Band 5 / QPSK

Reference Frequency: LTE Band 5, 836.5 MHz at 20(°C)				
Limit: □ 2.5 ppm = 2091.25 Hz				
Power Supply (Vac)	Environment Temperature (°C)	BW: 10M Frequency Error(Hz)	Frequency Error (ppm)	Limit (ppm)
120	65	0.00	0.000000	+/- 2.5
120	50	-0.01	-0.000012	
120	40	0.01	0.000012	
120	30	0.00	0.000000	
120	20	0.01	0.000012	
120	10	-0.01	-0.000012	
120	0	0.00	0.000000	
120	-10	-0.01	-0.000012	
120	-20	0.01	0.000012	
120	-35	0.10	0.0001	

LTE Band 5 / 16QAM

Reference Frequency: LTE Band 5, 836.5 MHz at 20(°C)				
Limit: □ 2.5 ppm = 2091.25 Hz				
Power Supply (Vac)	Environment Temperature (°C)	BW: 10M Frequency Error(Hz)	Frequency Error (ppm)	Limit (ppm)
120	65	0.01	0.000012	+/- 2.5
120	50	0.00	0.000000	
120	40	0.01	0.000012	
120	30	0.00	0.000000	
120	20	0.02	0.000024	
120	10	0.01	0.000010	
120	0	-0.01	-0.000012	
120	-10	0.01	0.000012	
120	-20	0.01	0.000012	
120	-35	0.00	0.0000	

FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT:**LTE Band 2 / QPSK**

Reference Frequency: LTE Band 2, 1880 MHz at 20(°C)				
Limit: ☐ 2.5 ppm = 4700 Hz				
Power Supply (Vac)	Environment Temperature (°C)	BW: 20M Frequency Error(Hz)	Frequency Error (ppm)	Limit (ppm)
102	20	0.01	0.000005	+/- 2.5
120		0.02	0.000011	
138		0.03	0.000016	

LTE Band 2 / 16QAM

Reference Frequency: LTE Band 2, 1880 MHz at 20(°C)				
Limit: ☐ 2.5 ppm = 4700 Hz				
Power Supply (Vac)	Environment Temperature (°C)	BW: 20M Frequency Error(Hz)	Frequency Error (ppm)	Limit (ppm)
102	20	-0.01	-0.000003	+/- 2.5
120		0.01	0.000005	
138		0.01	0.000003	

LTE Band 5 / QPSK

Reference Frequency: LTE Band 5, 536.5 MHz at 20(°C)				
Limit: □ 2.5 ppm = 2091.25 Hz				
Power Supply (Vac)	Environment Temperature (°C)	BW: 10M Frequency Error(Hz)	Frequency Error (ppm)	Limit (ppm)
102	20	0.00	0.000004	+/- 2.5
120		0.01	0.000012	
138		0.02	0.000024	

LTE Band 5 / 16QAM

Reference Frequency: LTE Band 5, 536.5 MHz at 20(°C)				
Limit: □ 2.5 ppm = 2091.25 Hz				
Power Supply (Vac)	Environment Temperature (°C)	BW: 10M Frequency Error(Hz)	Frequency Error (ppm)	Limit (ppm)
102	20	-0.01	-0.000008	+/- 2.5
120		0.00	0.000000	
138		0.01	0.000008	

8.3 OCCUPIED BANDWIDTH MEASUREMENT

Limits

For Reporting purposes only.

TEST PROCEDURES

KDB 971168 D01

1. The occupied bandwidth was measured with the spectrum analyzer at the lowest, middle and highest channels in each band and different modulation. The 99% and -26dB bandwidth was measured and recorded.
2. RBW = 1-5% of the expected OBW
3. VBW $\geq 3 \times$ RBW
4. Detector = Peak
5. Trace mode = max. hold

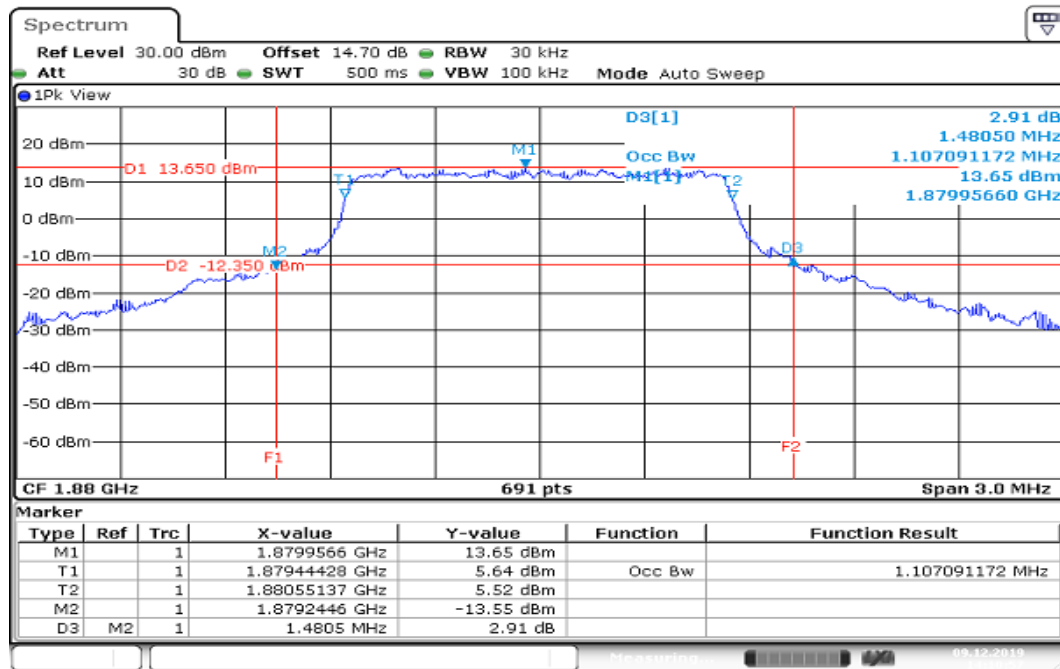
LTE Band 2

Band	BW (MHz)	Channel	Mode	UL RB Allocation	UL RB offset	OBW(99%)(MHz)	26 dB Bandwidth(MHz)
2	1.4	Middle	QPSK	6	0	1.1070	1.4805
		Middle	16QAM	6	0	1.1114	1.5282
	3	Middle	QPSK	15	0	2.6917	2.9826
		Middle	16QAM	15	0	2.6917	2.9739
	5	Middle	QPSK	25	0	4.4862	4.994
		Middle	16QAM	25	0	4.4862	4.973
	10	Middle	QPSK	50	0	8.9435	9.77
		Middle	16QAM	50	0	8.9435	9.748
	15	Middle	QPSK	75	0	13.4153	14.676
		Middle	16QAM	75	0	13.4587	14.654
	20	Middle	QPSK	100	0	18.0607	19.654
		Middle	16QAM	100	0	18.0607	19.69

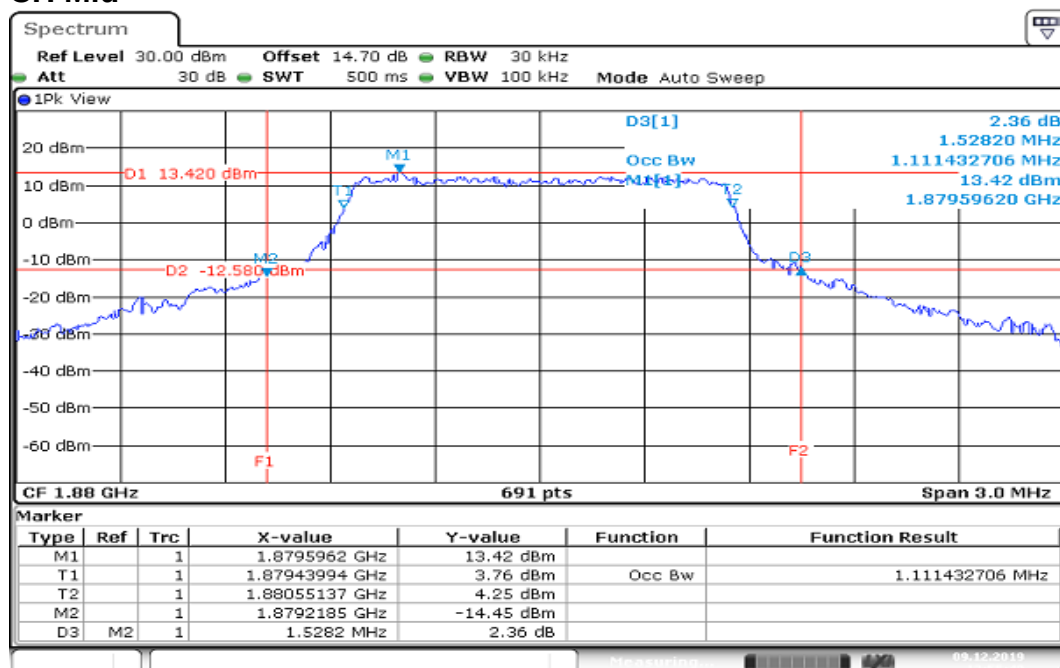
LTE Band 5

Band	BW (MHz)	Channel	Mode	UL RB Allocation	UL RB offset	OBW(99%)(MHz)	26 dB Bandwidth(MHz)
5	1.4	Middle	QPSK	6	0	1.0984	1.2938
		Middle	16QAM	6	0	1.0984	1.3155
	3	Middle	QPSK	15	0	2.6830	2.9349
		Middle	16QAM	15	0	2.6917	2.9219
	5	Middle	QPSK	25	0	4.4862	4.906
		Middle	16QAM	25	0	4.4717	4.848
	10	Middle	QPSK	50	0	8.9435	9.797
		Middle	16QAM	50	0	8.9725	9.74

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LTE Band 2**BW: 1.4MHz / QPSK / RB =6, RB Offset = 0****CH Mid**

Date: 9.DEC.2019 14:10:57

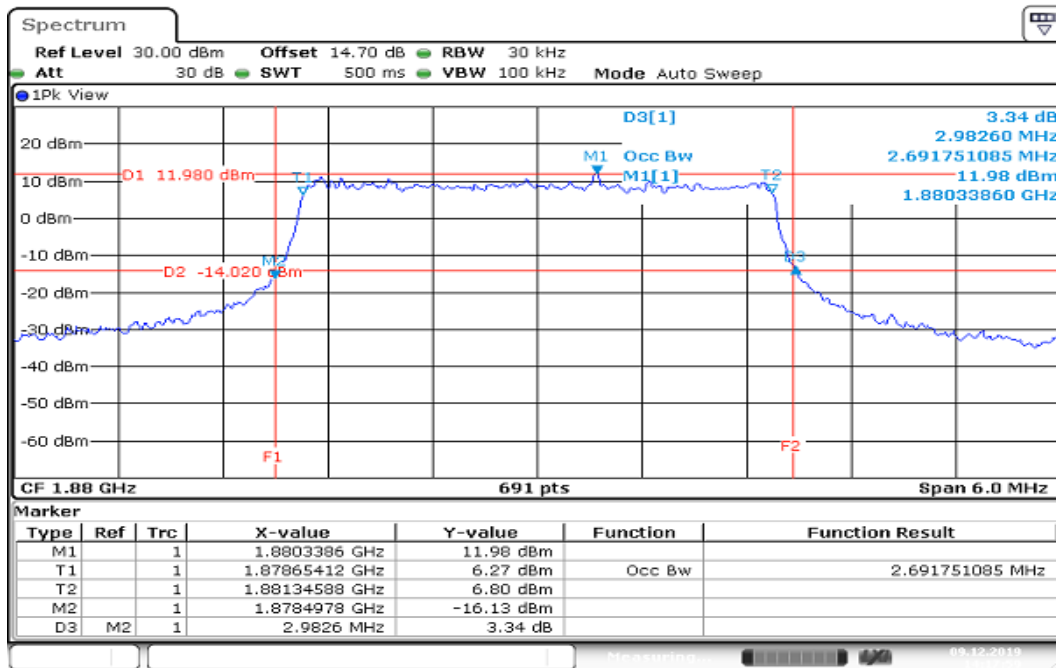
BW: 1.4MHz / 16QAM / RB =6, RB Offset = 0**CH Mid**

Date: 9.DEC.2019 13:55:49

Report No.: T191105W01-RP8

BW: 3MHz / QPSK / RB =15, RB Offset = 0

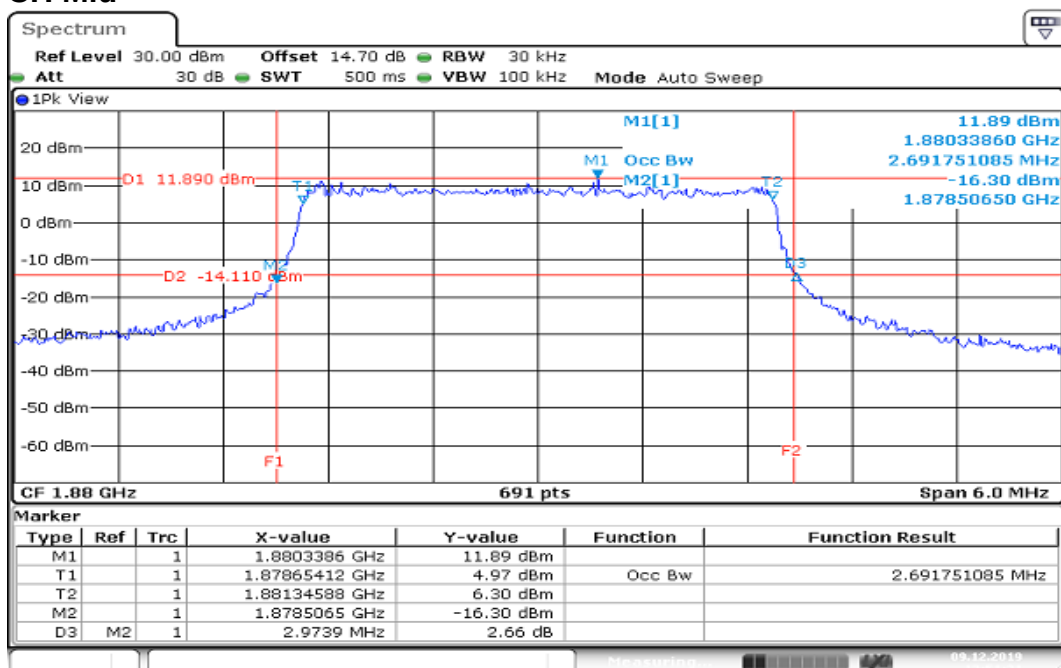
CH Mid



Date: 9.DEC.2019 14:17:59

BW: 3MHz / 16QAM / RB =15, RB Offset = 0

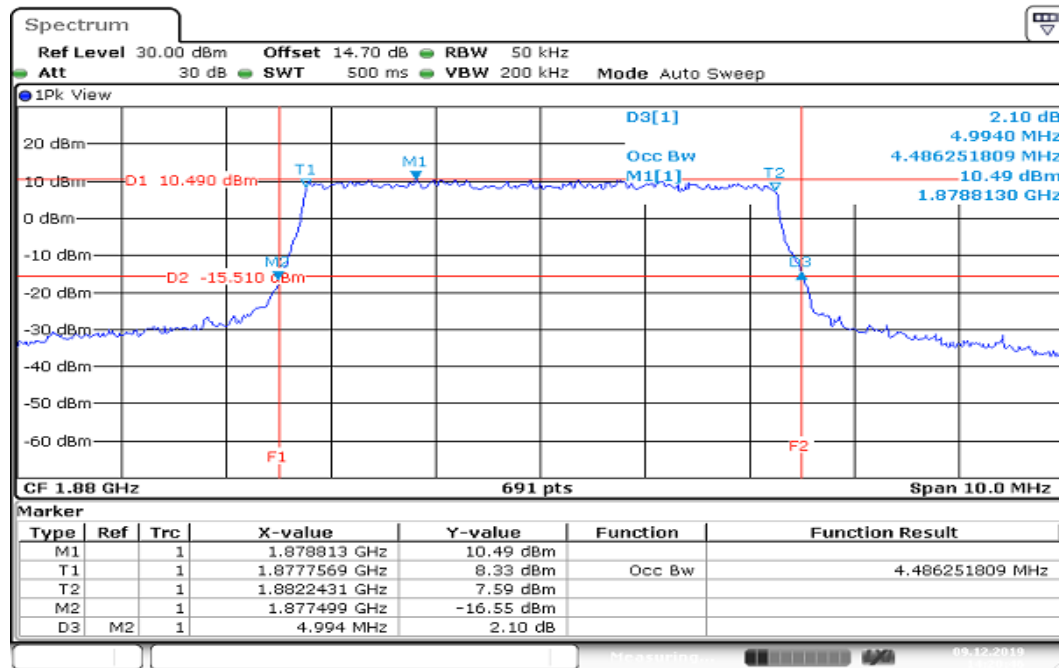
CH Mid



Date: 9.DEC.2019 13:51:21

BW: 5MHz / QPSK / RB =25, RB Offset = 0

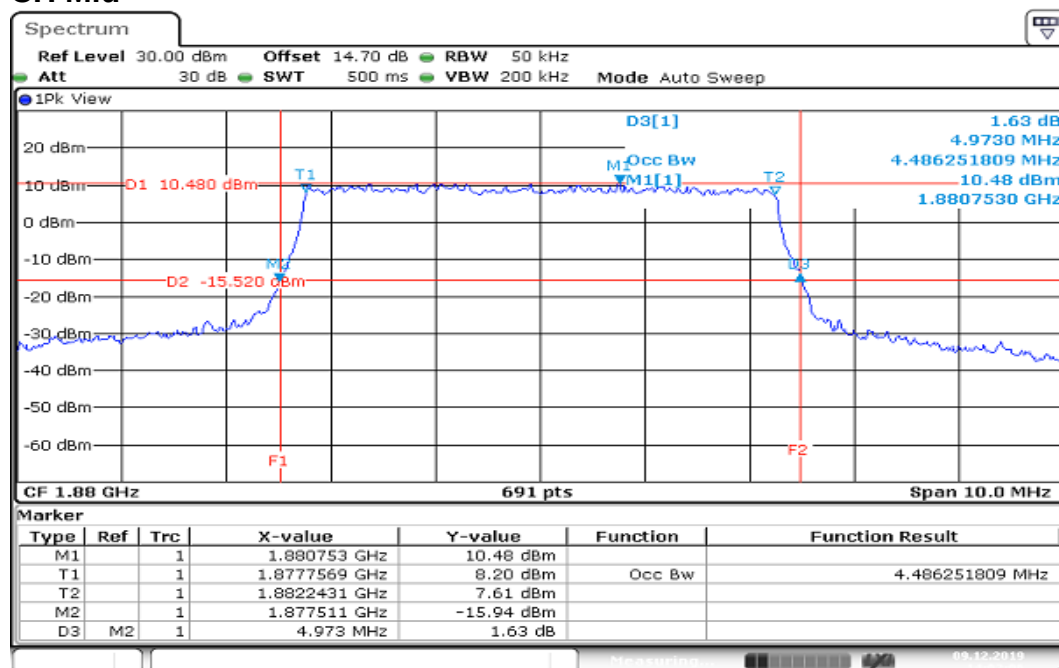
CH Mid



Date: 9.DEC.2019 14:20:47

BW: 5MHz / 16QAM / RB =25, RB Offset = 0

CH Mid

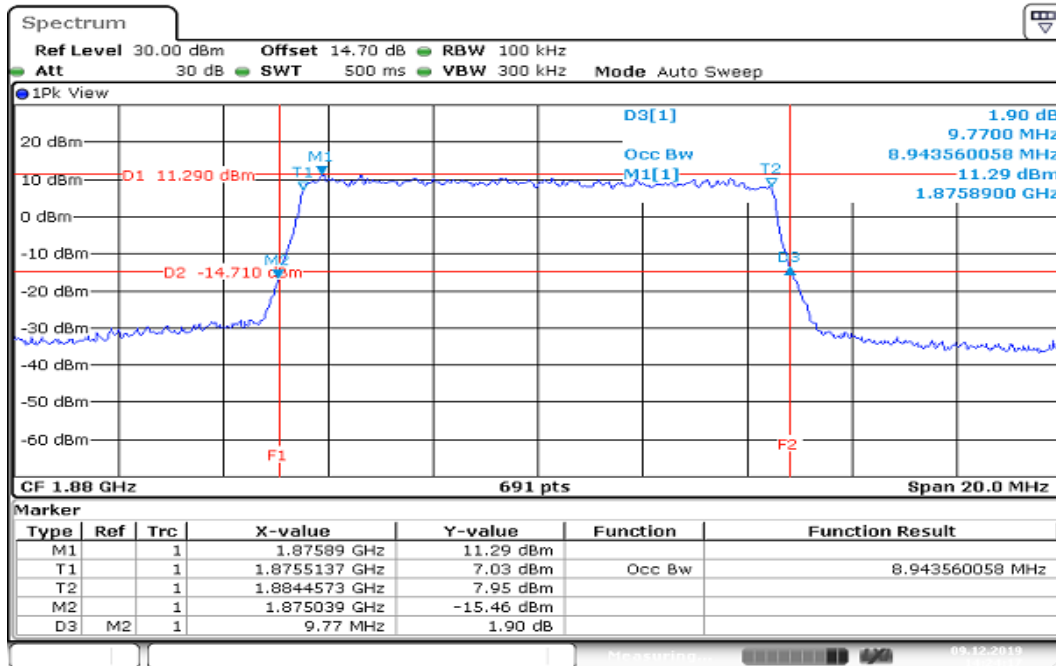


Date: 9.DEC.2019 14:02:06

Report No.: T191105W01-RP8

BW: 10MHz / QPSK / RB =50, RB Offset = 0

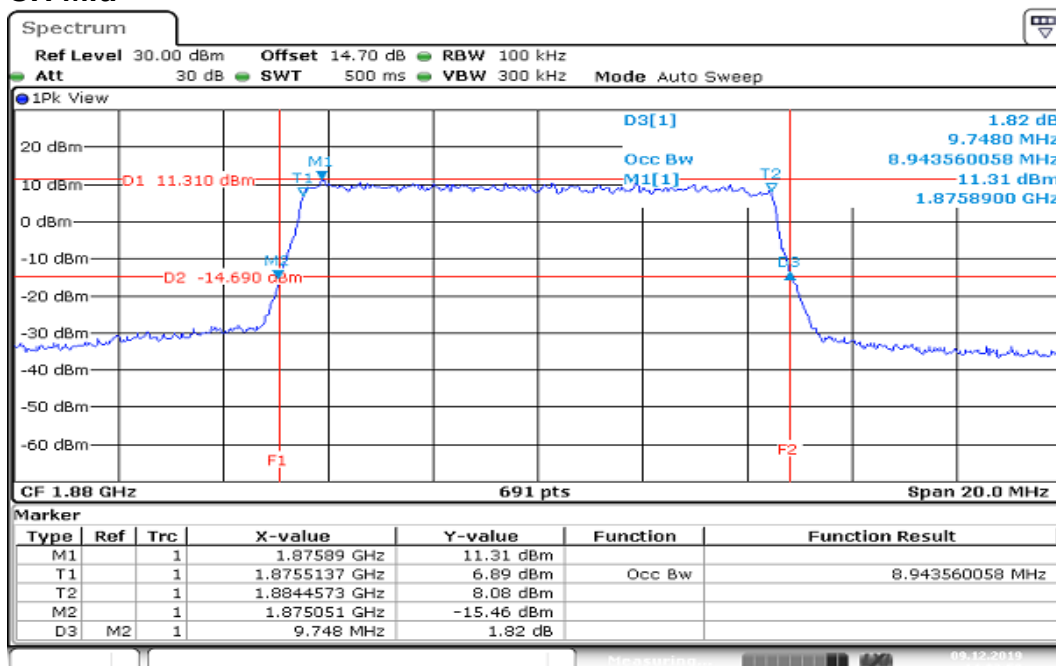
CH Mid



Date: 9.DEC.2019 14:24:17

BW: 10MHz / 16QAM / RB =50, RB Offset = 0

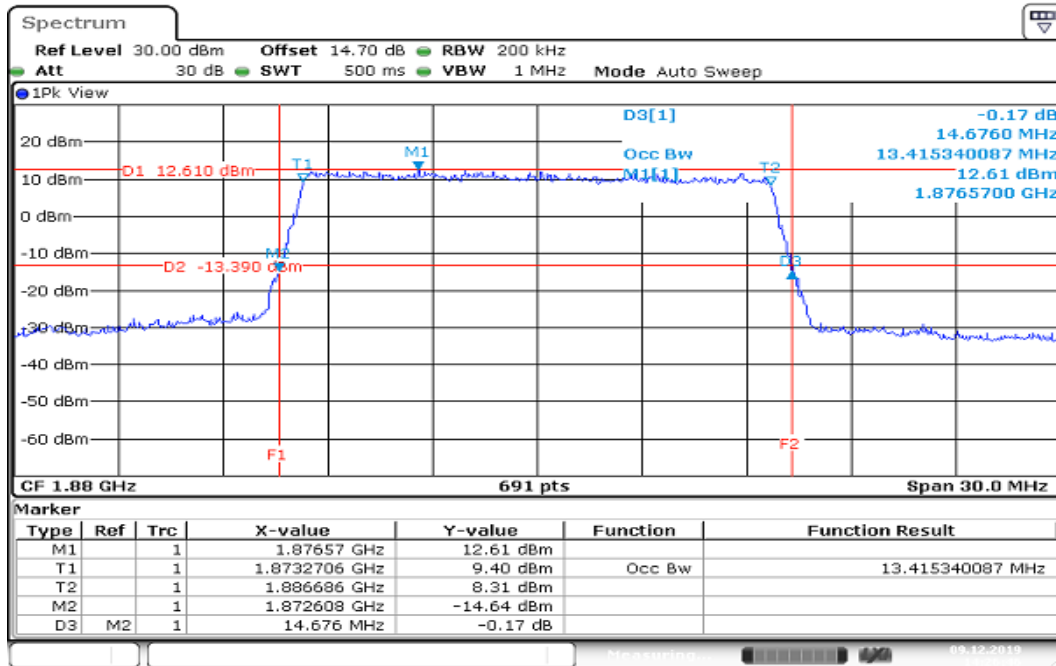
CH Mid



Date: 9.DEC.2019 14:03:59

BW: 15MHz / QPSK / RB =75, RB Offset = 0

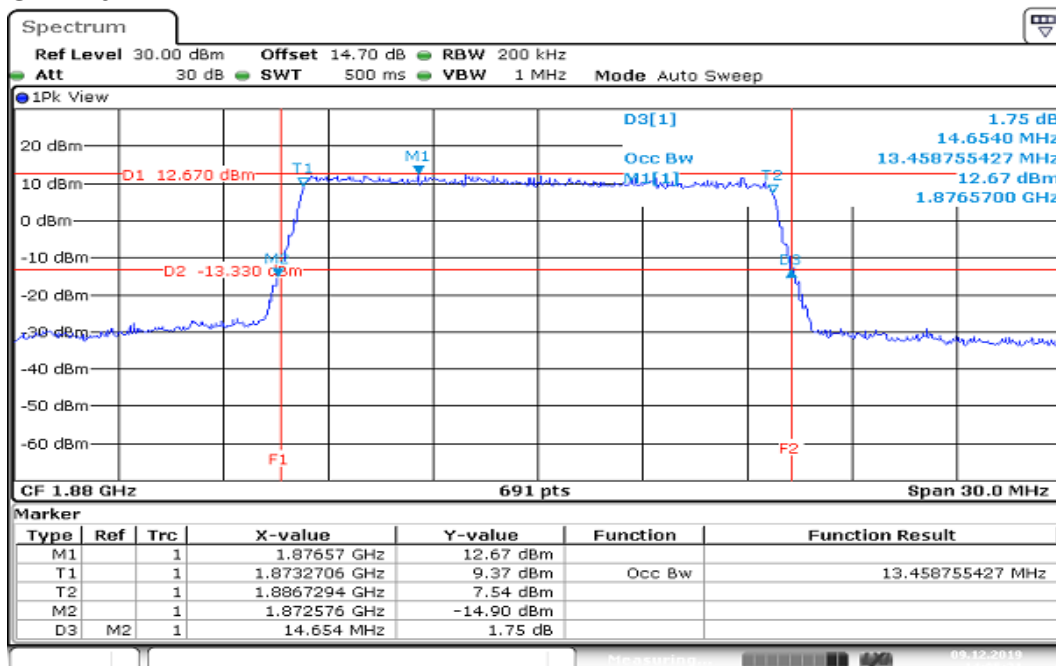
CH Mid



Date: 9.DEC.2019 14:26:46

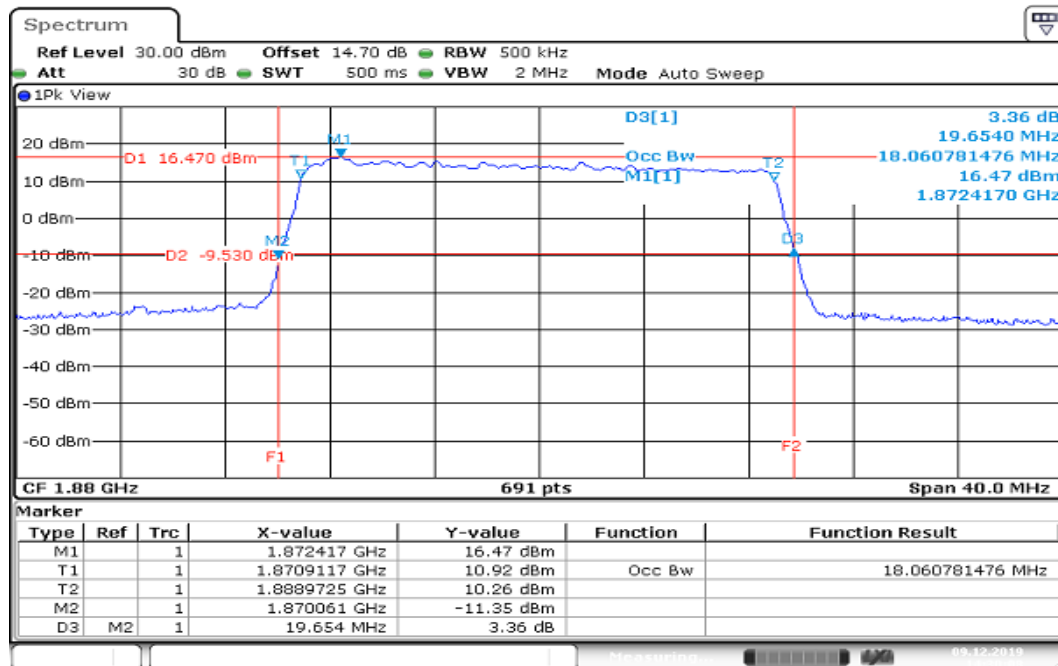
BW: 15MHz / 16QAM / RB =75, RB Offset = 0

CH Mid

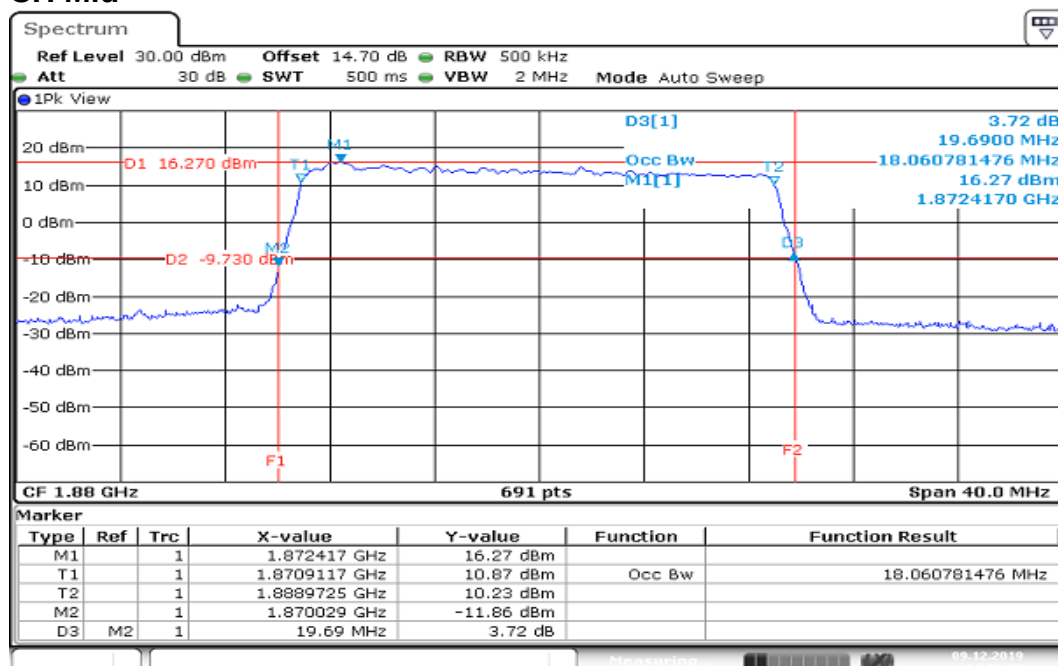


Date: 9.DEC.2019 14:05:31

Report No.: T191105W01-RP8

BW: 20MHz / QPSK / RB =100, RB Offset = 0
CH Mid


Date: 9.DEC.2019 14:30:09

BW: 20MHz / 16QAM / RB =100, RB Offset = 0
CH Mid


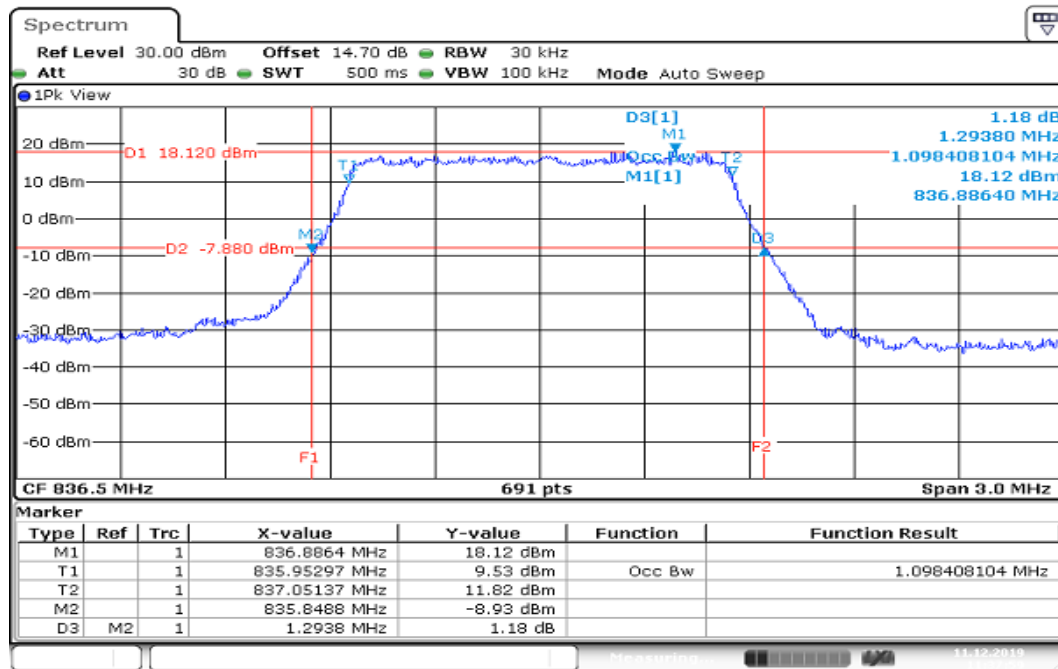
Date: 9.DEC.2019 14:07:21

Report No.: T191105W01-RP8

LTE Band 5

BW: 1.4MHz / QPSK / RB =6, RB Offset = 0

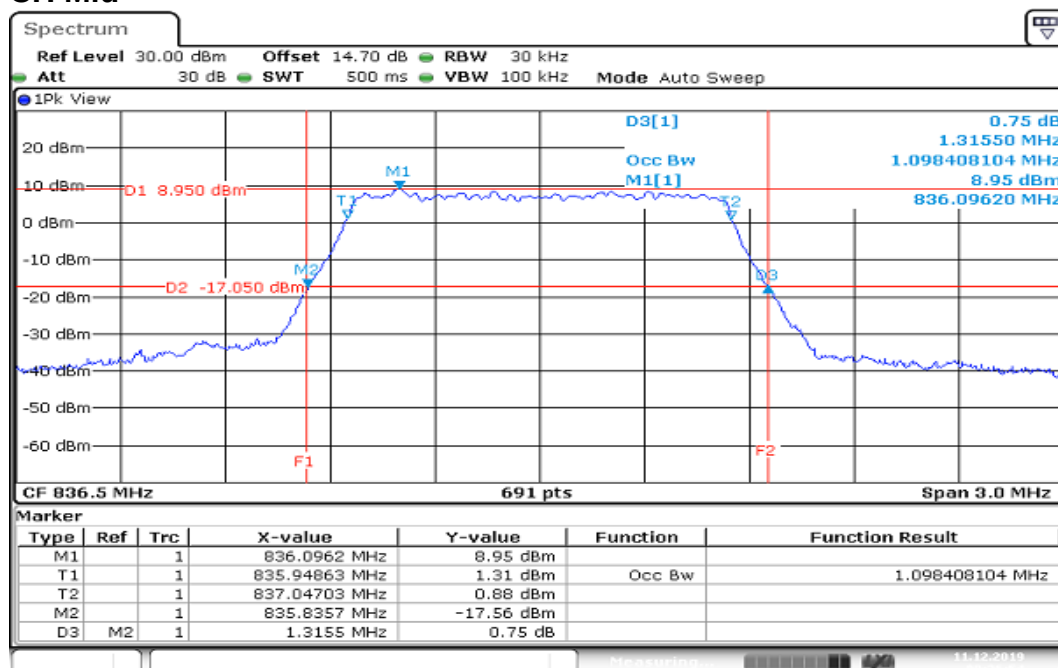
CH Mid



Date: 11.DEC.2019 11:38:00

BW: 1.4MHz / 16QAM / RB =6, RB Offset = 0

CH Mid

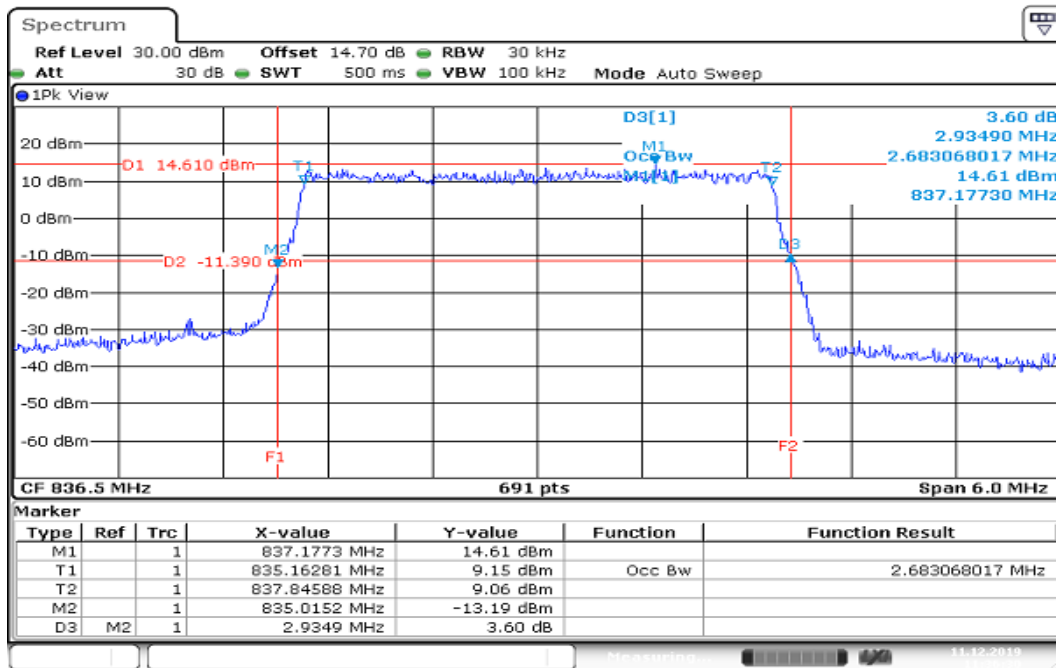


Date: 11.DEC.2019 09:26:54

Report No.: T191105W01-RP8

BW: 3MHz / QPSK / RB =15, RB Offset = 0

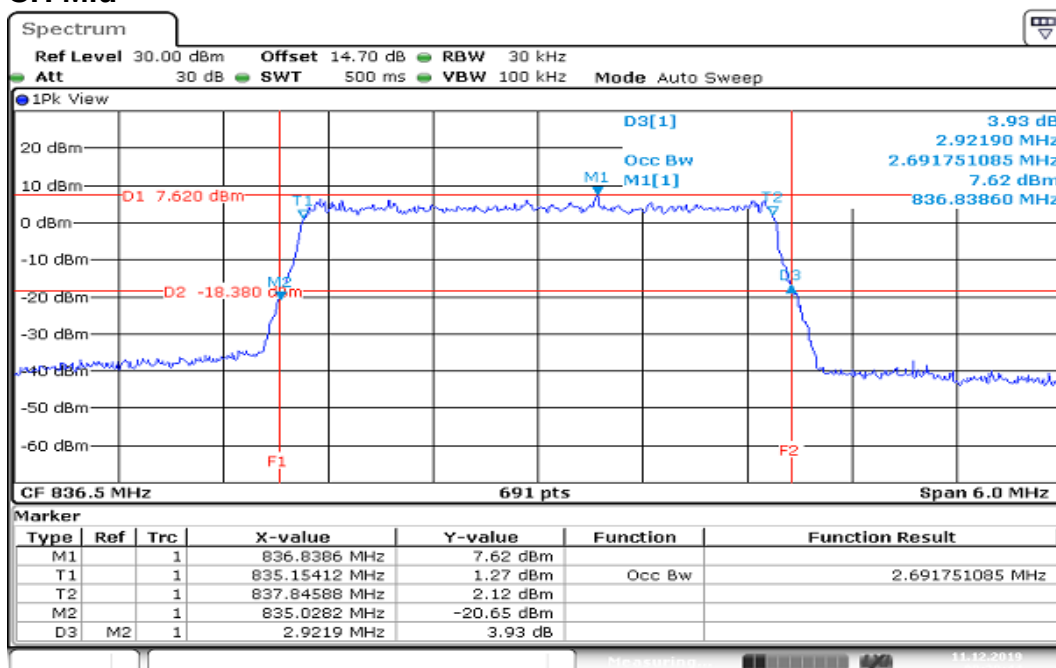
CH Mid



Date: 11.DEC.2019 11:36:30

BW: 3MHz / 16QAM / RB =15, RB Offset = 0

CH Mid

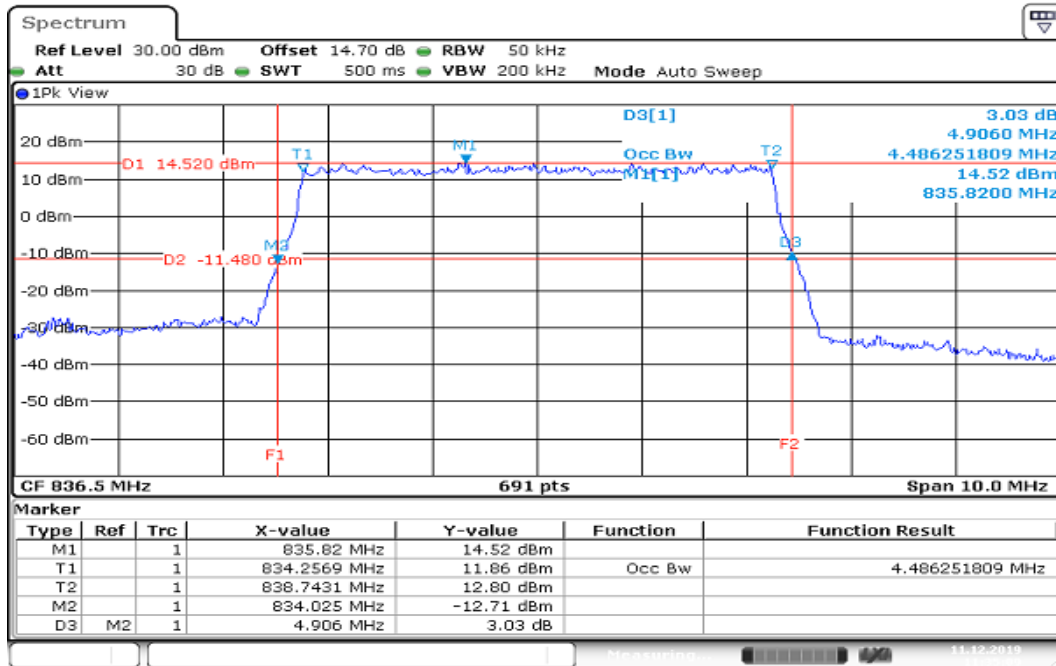


Date: 11.DEC.2019 09:28:44

Report No.: T191105W01-RP8

BW: 5MHz / QPSK / RB =25, RB Offset = 0

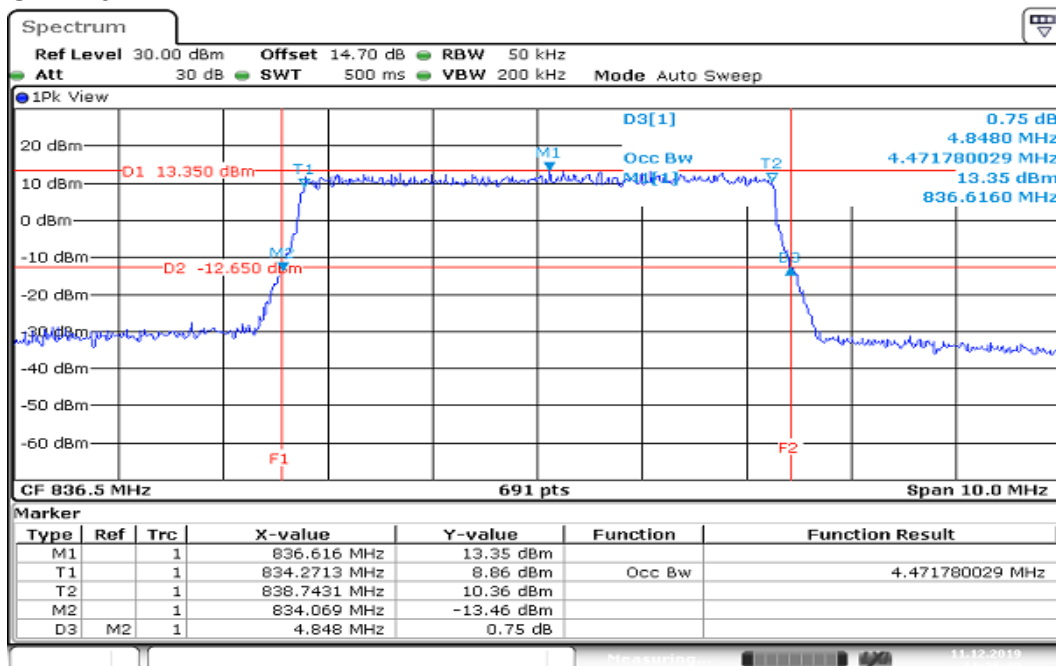
CH Mid



Date: 11.DEC.2019 11:35:10

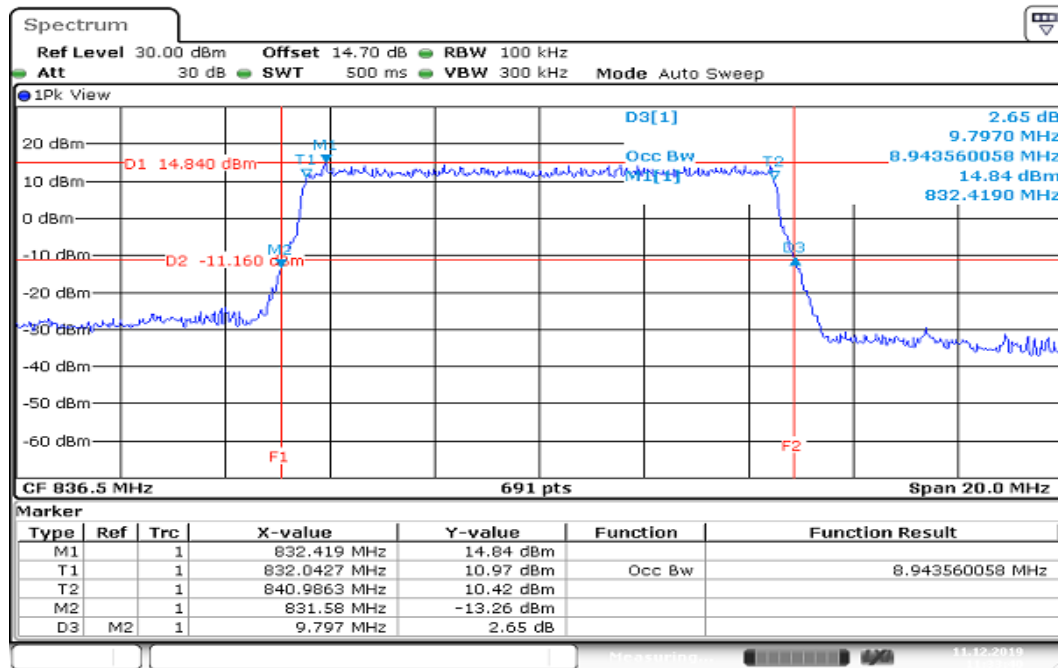
BW: 5MHz / 16QAM / RB =25, RB Offset = 0

CH Mid

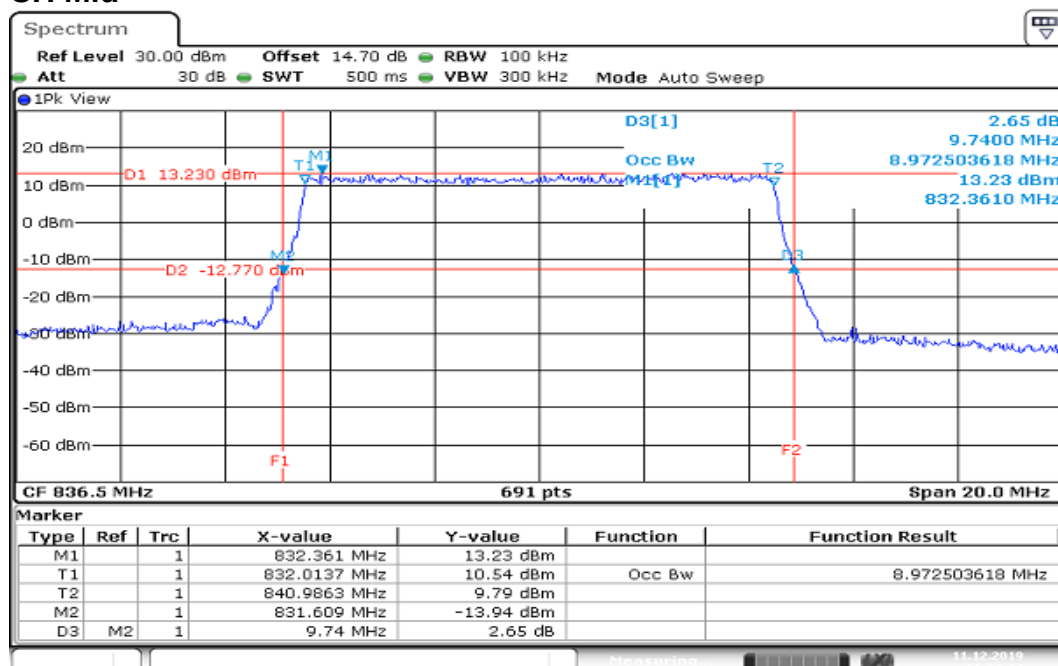


Date: 11.DEC.2019 11:26:41

Report No.: T191105W01-RP8

BW: 10MHz / QPSK / RB =50, RB Offset = 0
CH Mid


Date: 11.DEC.2019 11:33:41

BW: 10MHz / 16QAM / RB =50, RB Offset = 0
CH Mid


Date: 11.DEC.2019 11:32:15

8.4 PEAK TO AVERAGE POWER RATIO

Limit

In measuring transmissions in this band using an average power technique, the peak to average power ratio (PAPR) of the transmission may not exceed 13 dB.

Test Procedures

1. According to KDB 971168 D01,
2. The EUT was connect to spectrum analyzer and call box.
3. Set the CCDF function in spectrum analyzer.
4. The highest RF output power were measured and recorded the maximum PAPR level associated with a probability of 0.1%.
5. Record the Peak to Average Power Ratio.

Note: We selected worst case to performed test in middle channel, the results can be meet other channel.

Test Results**LTE Band 2****CHANNEL BANDWIDTH: 1.4MHz / QPSK / 1RB**

Channel	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
18900	1880.00	5.33

CHANNEL BANDWIDTH: 1.4MHz / 16QAM / 1RB

Channel	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
18900	1880.00	5.68

CHANNEL BANDWIDTH: 3MHz / QPSK / 1RB

Channel	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
18900	1880.00	5.10

CHANNEL BANDWIDTH: 3MHz / 16QAM / 1RB

Channel	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
18900	1880.00	5.71

CHANNEL BANDWIDTH: 5MHz / QPSK / 1RB

Channel	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
18900	1880.00	4.96

CHANNEL BANDWIDTH: 5MHz / 16QAM / 1RB

Channel	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
18900	1880.00	5.59

Note: We selected worst case to performed test in middle channel, the results can be meet other channel.

CHANNEL BANDWIDTH: 10MHz / QPSK / 1RB

Channel	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
18900	1880.00	4.78

CHANNEL BANDWIDTH: 10MHz / 16QAM / 1RB

Channel	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
18900	1880.00	5.45

CHANNEL BANDWIDTH: 15MHz / QPSK / 1RB

Channel	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
18900	1880.00	4.72

CHANNEL BANDWIDTH: 15MHz / 16QAM / 1RB

Channel	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
18900	1880.00	5.74

CHANNEL BANDWIDTH: 20MHz / QPSK / 1RB

Channel	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
18900	1880.00	4.58

CHANNEL BANDWIDTH: 20MHz / 16QAM / 1RB

Channel	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
18900	1880.00	5.33

Note: We selected worst case to performed test in middle channel, the results can be meet other channel.

CHANNEL BANDWIDTH: 1.4MHz / QPSK / 100%RB

Channel	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
18900	1880.00	5.30

CHANNEL BANDWIDTH: 1.4MHz / 16QAM / 100%RB

Channel	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
18900	1880.00	6.17

CHANNEL BANDWIDTH: 3MHz / QPSK / 100%RB

Channel	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
18900	1880.00	5.16

CHANNEL BANDWIDTH: 3MHz / 16QAM / 100%RB

Channel	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
18900	1880.00	5.97

CHANNEL BANDWIDTH: 5MHz / QPSK / 100%RB

Channel	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
18900	1880.00	5.07

CHANNEL BANDWIDTH: 5MHz / 16QAM / 100%RB

Channel	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
18900	1880.00	6.12

Note: We selected worst case to performed test in middle channel, the results can be meet other channel.

CHANNEL BANDWIDTH: 10MHz / QPSK / 100%RB

Channel	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
18900	1880.00	5.04

CHANNEL BANDWIDTH: 10MHz / 16QAM / 100%RB

Channel	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
18900	1880.00	6.03

CHANNEL BANDWIDTH: 15MHz / QPSK / 100%RB

Channel	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
18900	1880.00	5.39

CHANNEL BANDWIDTH: 15MHz / 16QAM / 100%RB

Channel	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
18900	1880.00	6.12

CHANNEL BANDWIDTH: 20MHz / QPSK / 100%RB

Channel	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
18900	1880.00	5.01

CHANNEL BANDWIDTH: 20MHz / 16QAM / 100%RB

Channel	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
18900	1880.00	6.03

Note: We selected worst case to performed test in middle channel, the results can be meet other channel.

LTE Band 5**CHANNEL BANDWIDTH: 1.4MHz / QPSK / 1RB**

Channel	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
20525	836.5	5.16

CHANNEL BANDWIDTH: 1.4MHz / 16QAM / 1RB

Channel	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
20525	836.5	5.42

CHANNEL BANDWIDTH: 3MHz / QPSK / 1RB

Channel	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
20525	836.5	5.07

CHANNEL BANDWIDTH: 3MHz / 16QAM / 1RB

Channel	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
20525	836.5	5.36

CHANNEL BANDWIDTH: 5MHz / QPSK / 1RB

Channel	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
20525	836.5	4.55

CHANNEL BANDWIDTH: 5MHz / 16QAM / 1RB

Channel	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
20525	836.5	5.28

CHANNEL BANDWIDTH: 10MHz / QPSK / 1RB

Channel	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
20525	836.5	4.35

CHANNEL BANDWIDTH: 10MHz / 16QAM / 1RB

Channel	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
20525	836.5	4.93

Note: We selected worst case to performed test in middle channel, the results can be meet other channel.

CHANNEL BANDWIDTH: 1.4MHz / QPSK / 100%RB

Channel	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
20525	836.5	5.36

CHANNEL BANDWIDTH: 1.4MHz / 16QAM / 100%RB

Channel	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
20525	836.5	6.12

CHANNEL BANDWIDTH: 3MHz / QPSK / 100%RB

Channel	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
20525	836.5	4.99

CHANNEL BANDWIDTH: 3MHz / 16QAM / 100%RB

Channel	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
20525	836.5	6.03

CHANNEL BANDWIDTH: 5MHz / QPSK / 100%RB

Channel	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
20525	836.5	4.99

CHANNEL BANDWIDTH: 5MHz / 16QAM / 100%RB

Channel	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
20525	836.5	5.88

CHANNEL BANDWIDTH: 10MHz / QPSK / 100%RB

Channel	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
20525	836.5	4.99

CHANNEL BANDWIDTH: 10MHz / 16QAM / 100%RB

Channel	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
20525	836.5	5.88

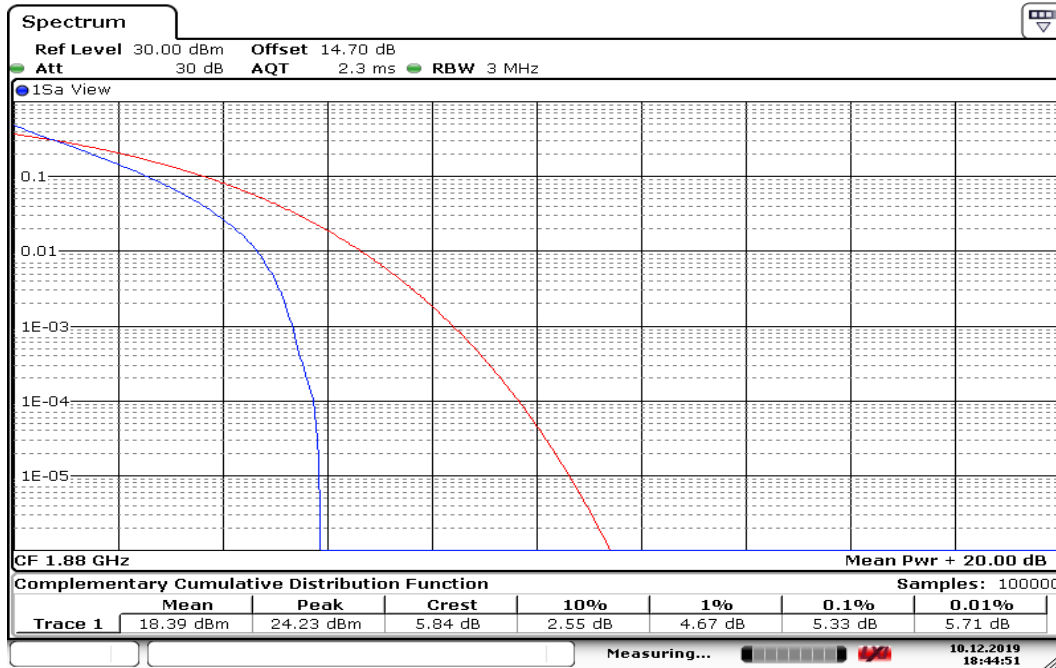
Note: We selected worst case to performed test in middle channel, the results can be meet other channel.

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LTE Band 2

BW: 1.4MHz / QPSK / RB =1, RB Offset = 0

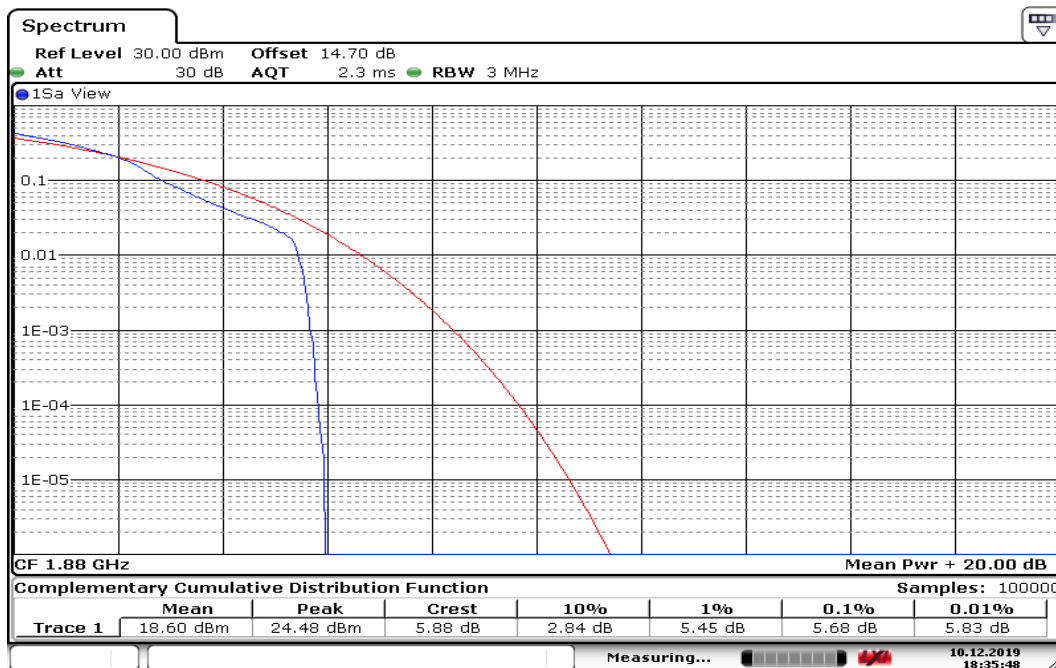
CH Mid



Date: 10.DEC.2019 18:44:51

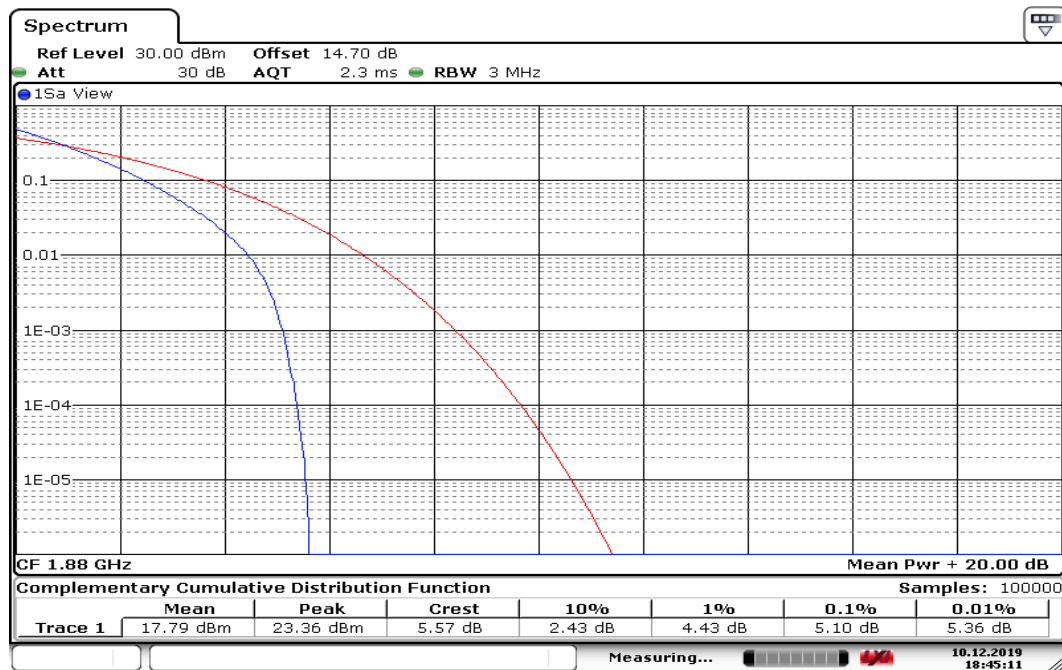
BW: 1.4MHz / 16QAM / RB =1, RB Offset = 0

CH Mid



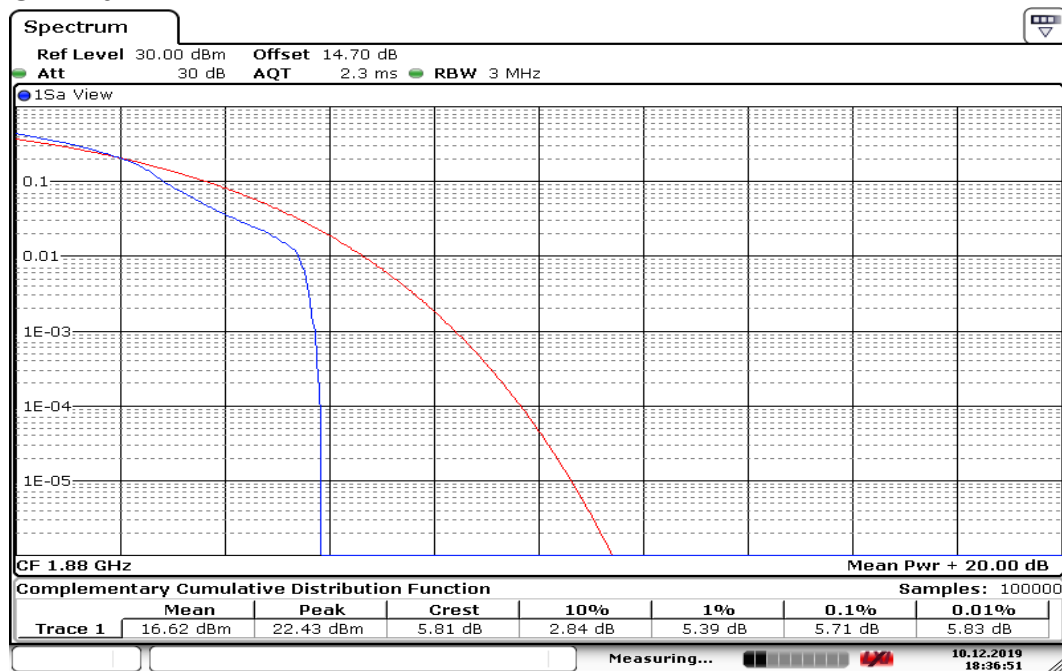
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BW: 3MHz / QPSK / RB =1, RB Offset = 0
CH Mid



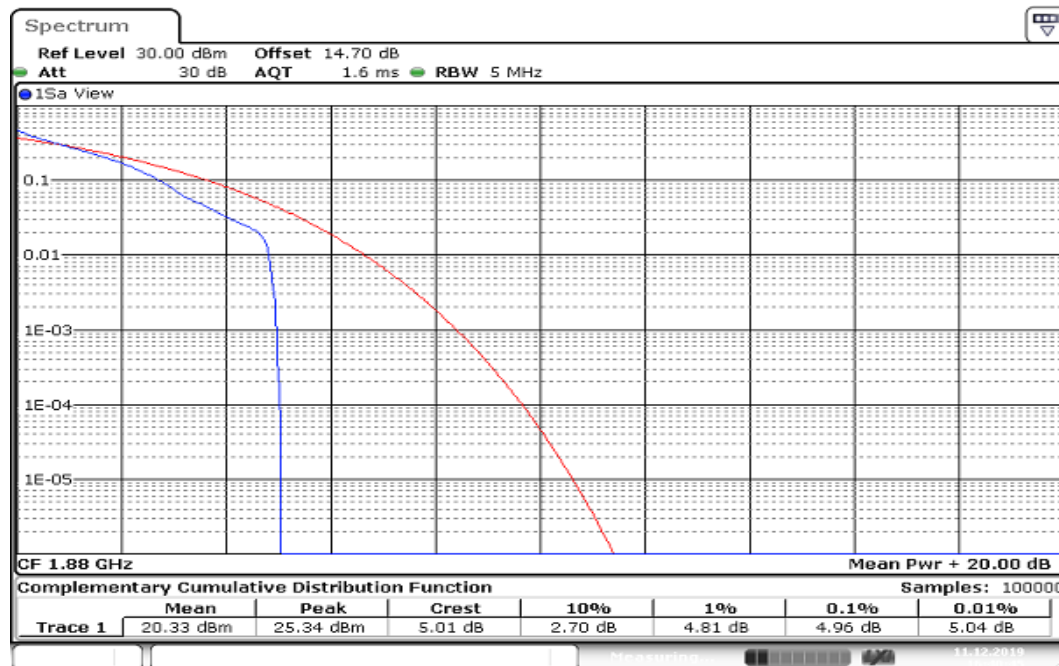
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BW: 3MHz / 16QAM / RB =1, RB Offset = 0
CH Mid

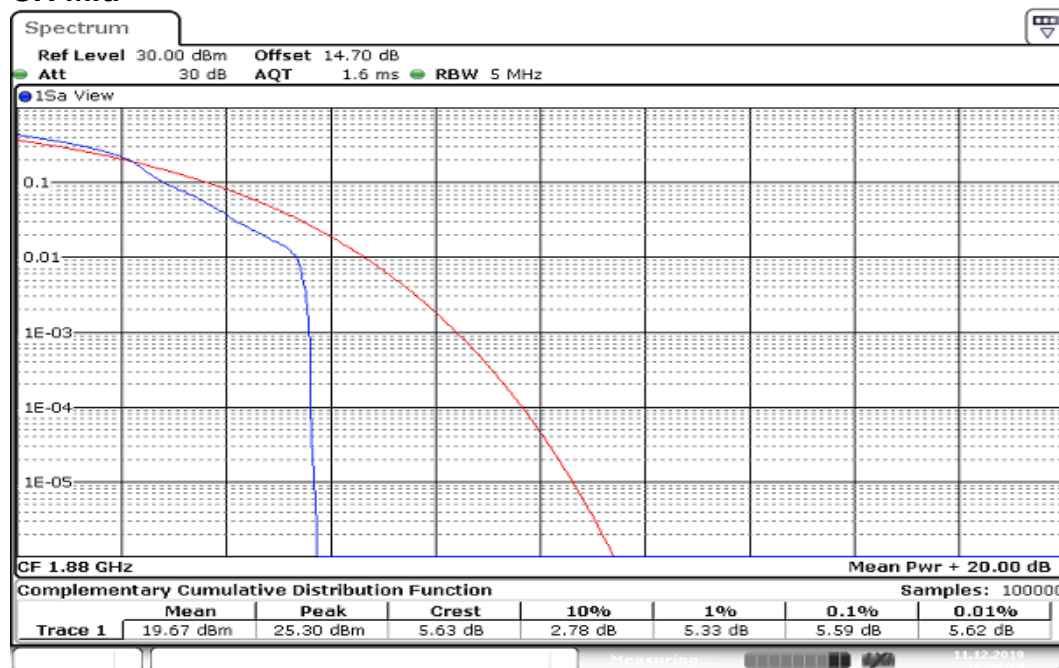


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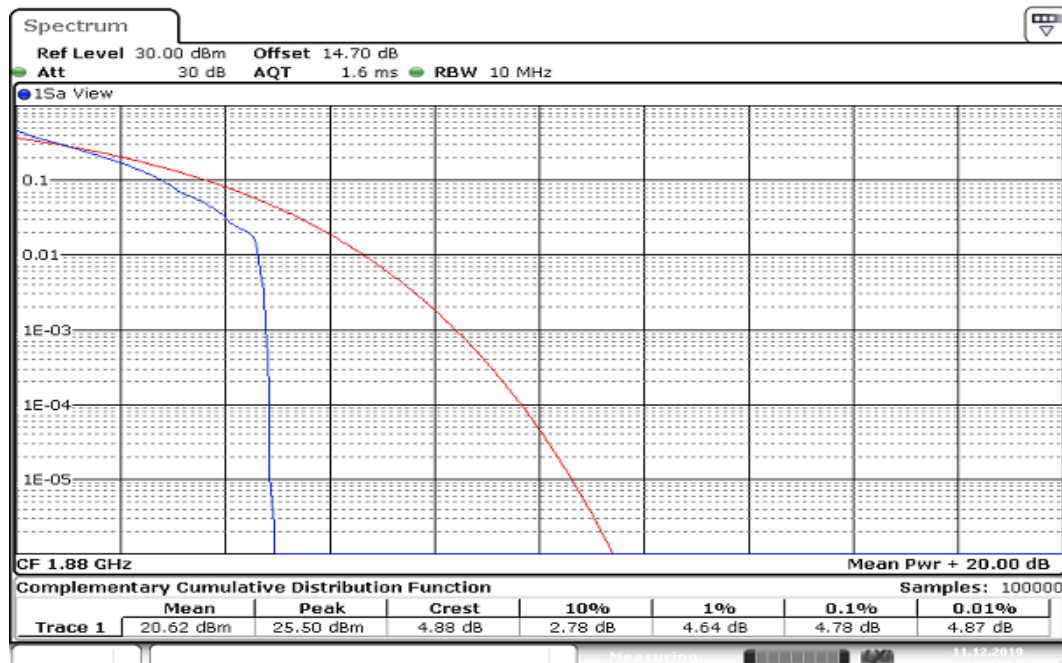
BW: 5MHz / QPSK / RB =1, RB Offset = 0
CH Mid



BW: 5MHz / 16QAM / RB =1, RB Offset = 0
CH Mid

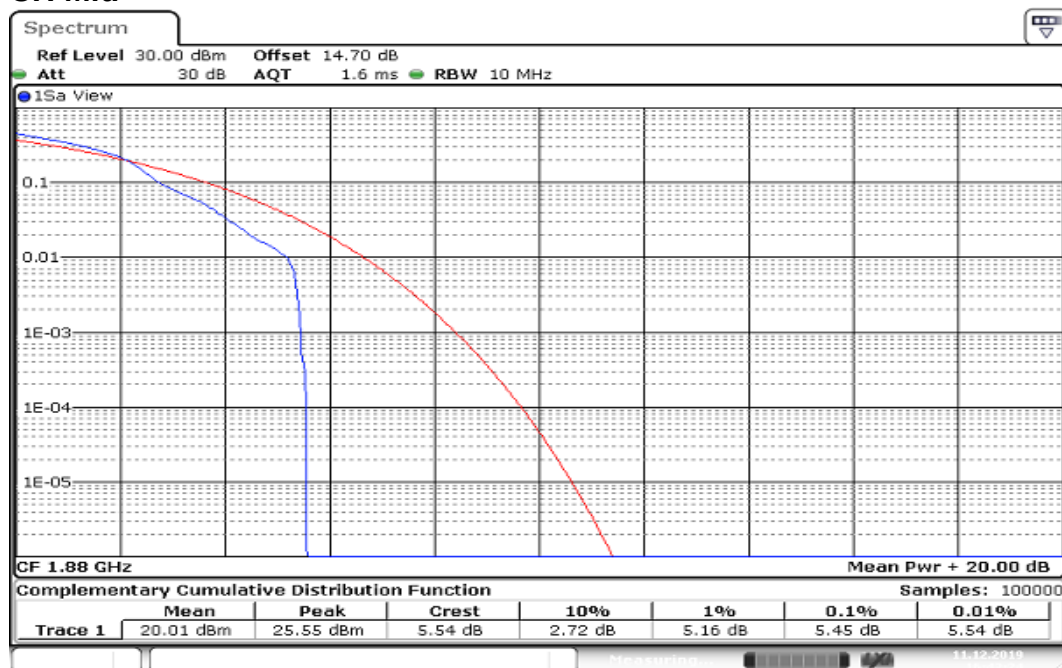


BW: 10MHz / QPSK /RB =1, RB Offset = 0
CH Mid



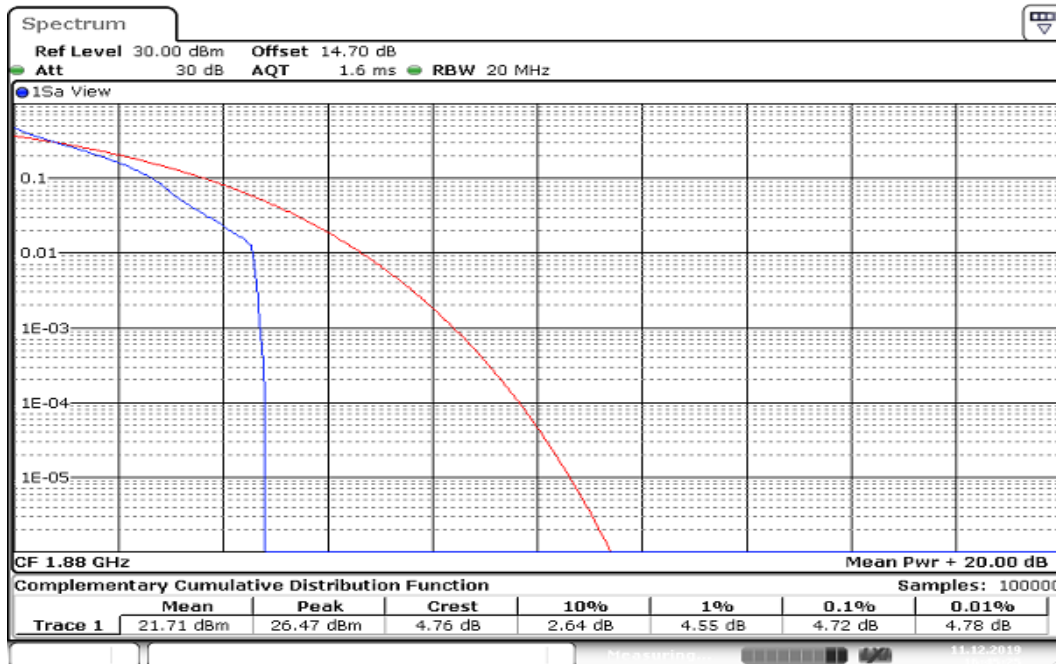
Date: 11.DEC.2019 16:42:53

BW: 10MHz / 16QAM /RB =1, RB Offset = 0
CH Mid



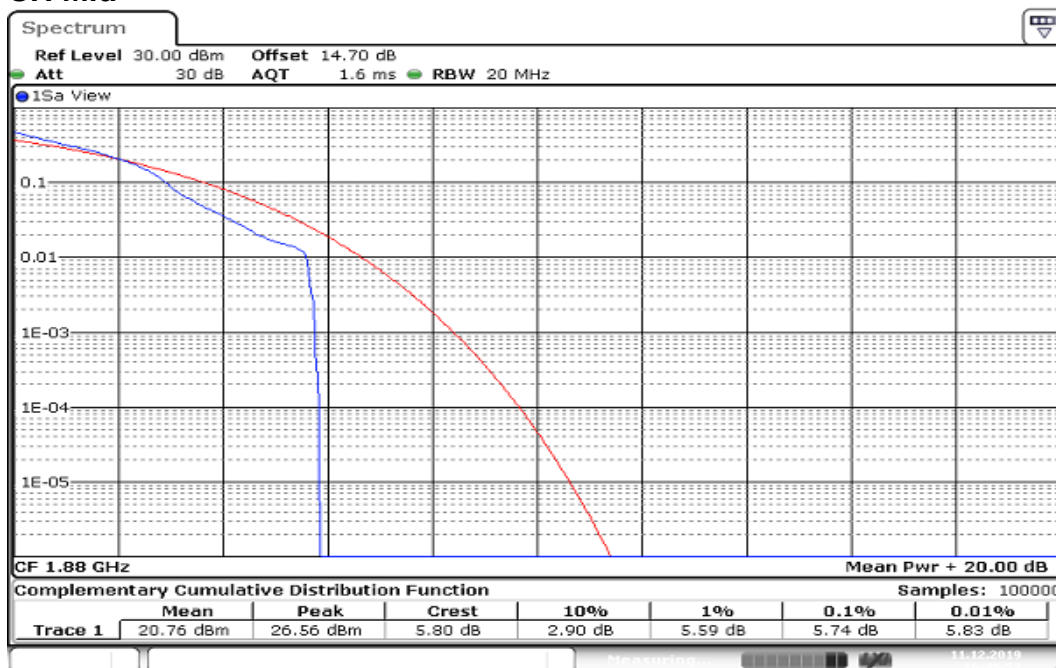
Date: 11.DEC.2019 16:43:24

BW: 15MHz / QPSK /RB =1, RB Offset = 0
CH Mid



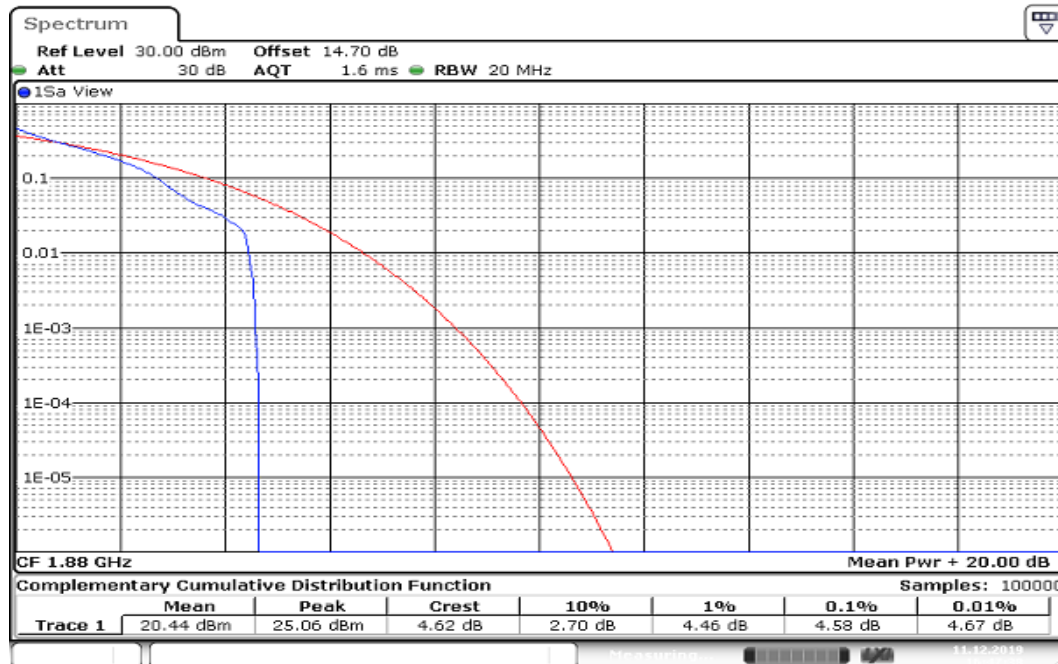
Date: 11.DEC.2019 16:45:25

BW: 15MHz / 16QAM /RB =1, RB Offset = 0
CH Mid



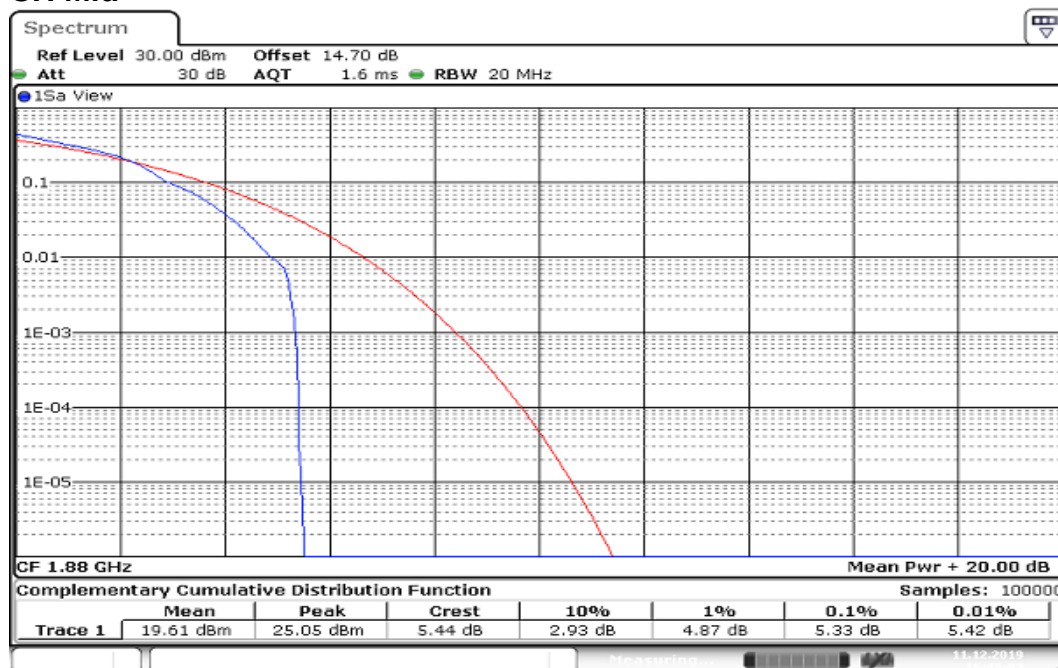
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BW: 20MHz / QPSK / RB =1, RB Offset = 0
CH Mid



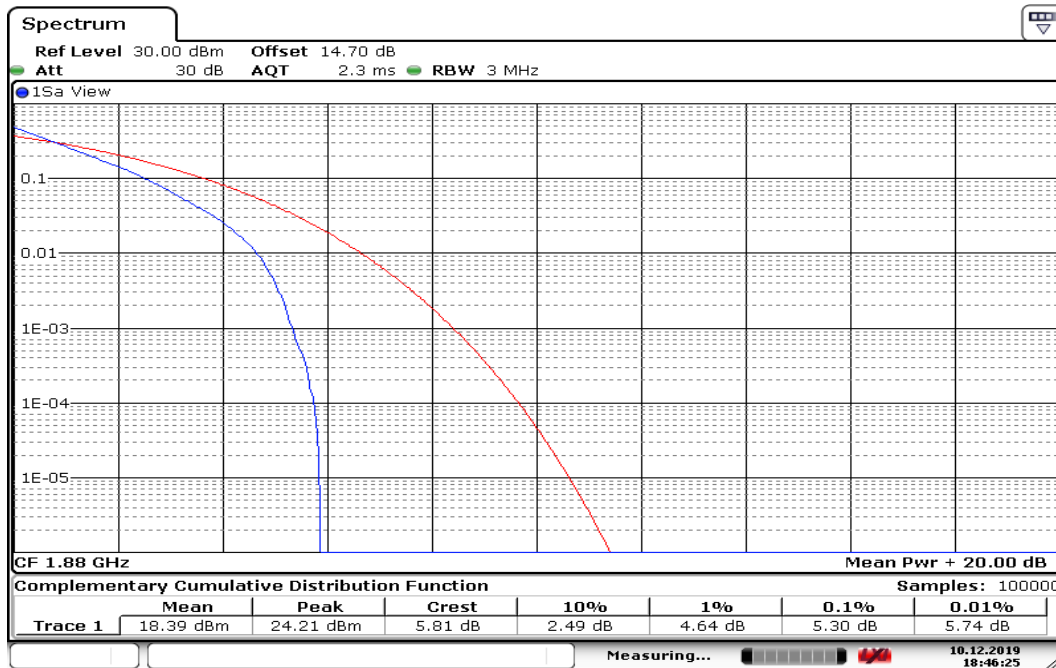
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BW: 20MHz / 16QAM / RB =1, RB Offset = 0
CH Mid



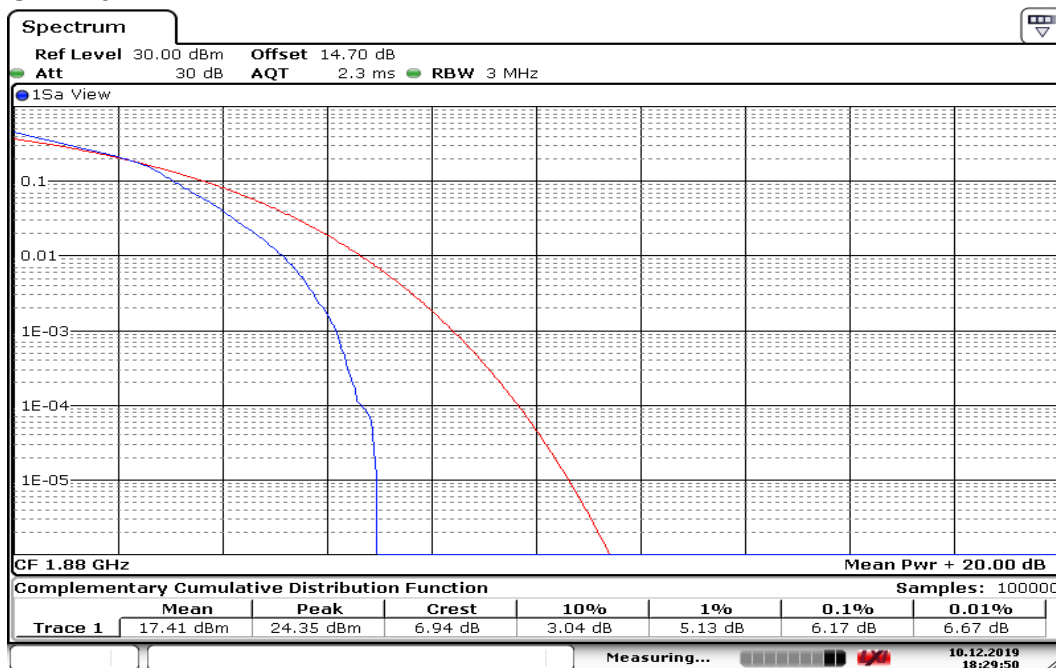
Date: 11.DEC.2019 16:48:03

BW: 1.4MHz / QPSK / RB =100%, RB Offset = 0
CH Mid



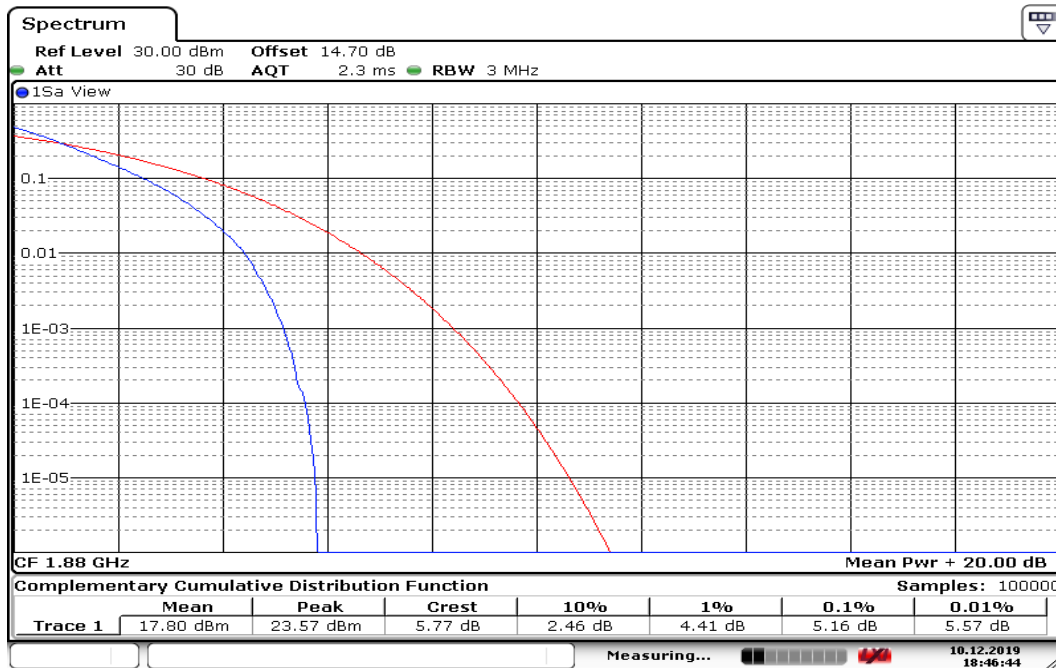
Date: 10.DEC.2019 18:46:25

BW: 1.4MHz / 16QAM / RB =100%, RB Offset = 0
CH Mid



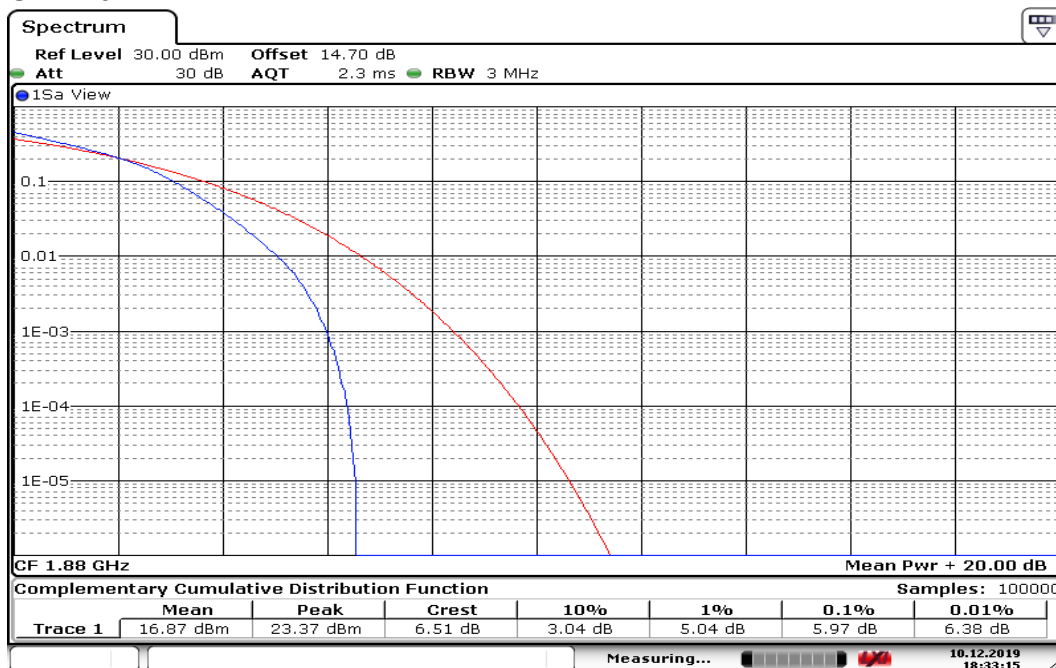
Date: 10.DEC.2019 18:29:50

BW: 3MHz / QPSK / RB =100%, RB Offset = 0
CH Mid



Date: 10.DEC.2019 18:46:44

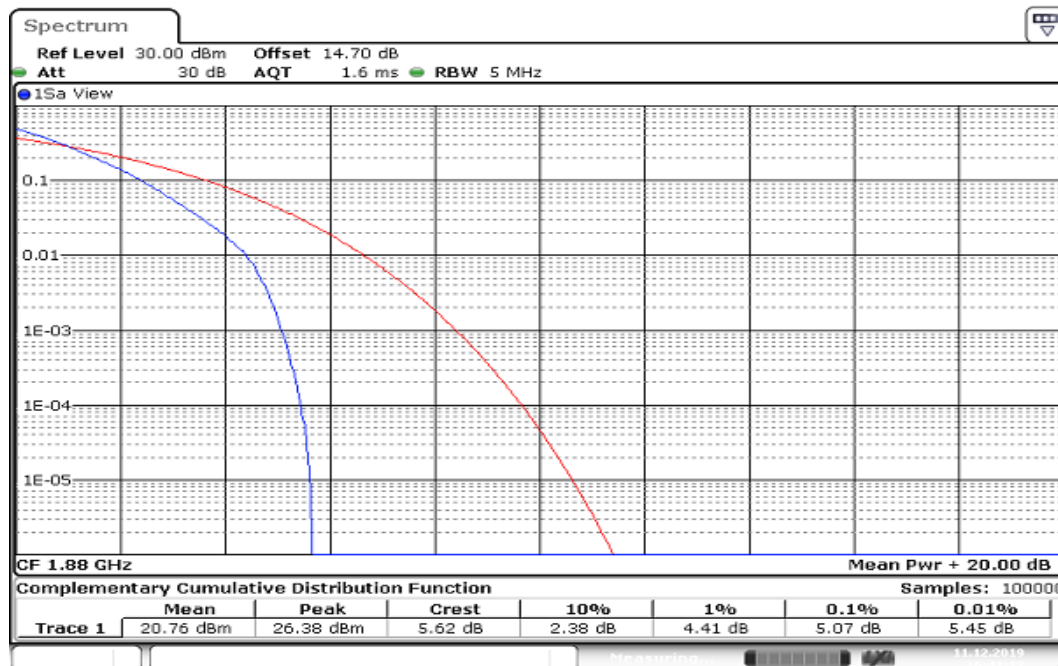
BW: 3MHz / 16QAM / RB =100%, RB Offset = 0
CH Mid



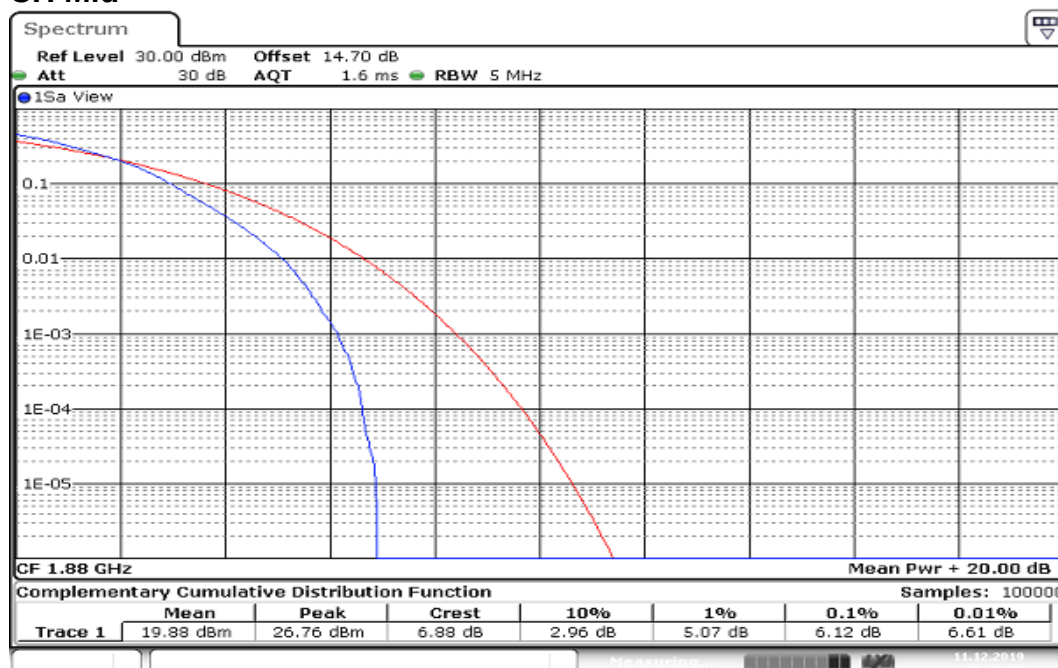
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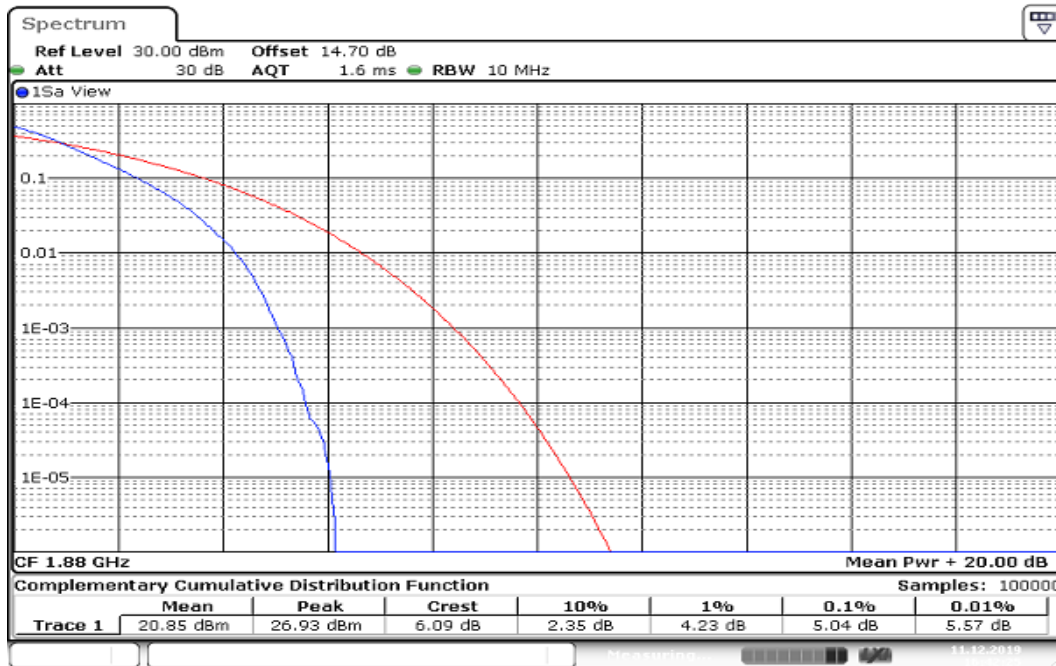
BW: 5MHz / QPSK / RB =100%, RB Offset = 0
CH Mid



BW: 5MHz / 16QAM / RB =100%, RB Offset = 0
CH Mid

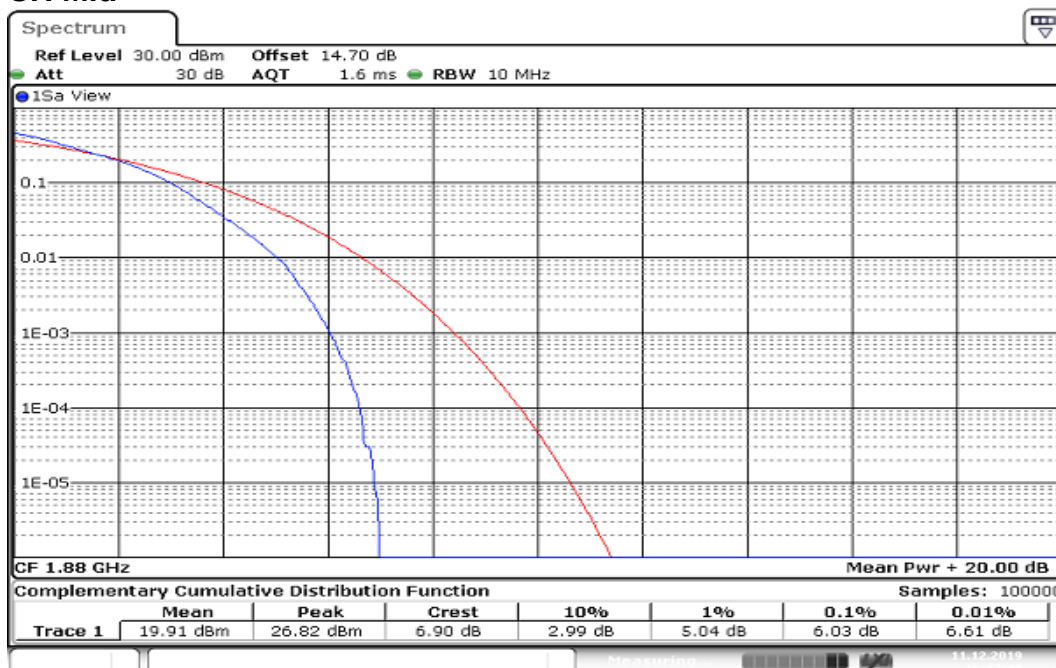


BW: 10MHz / QPSK /RB =100%, RB Offset = 0
CH Mid



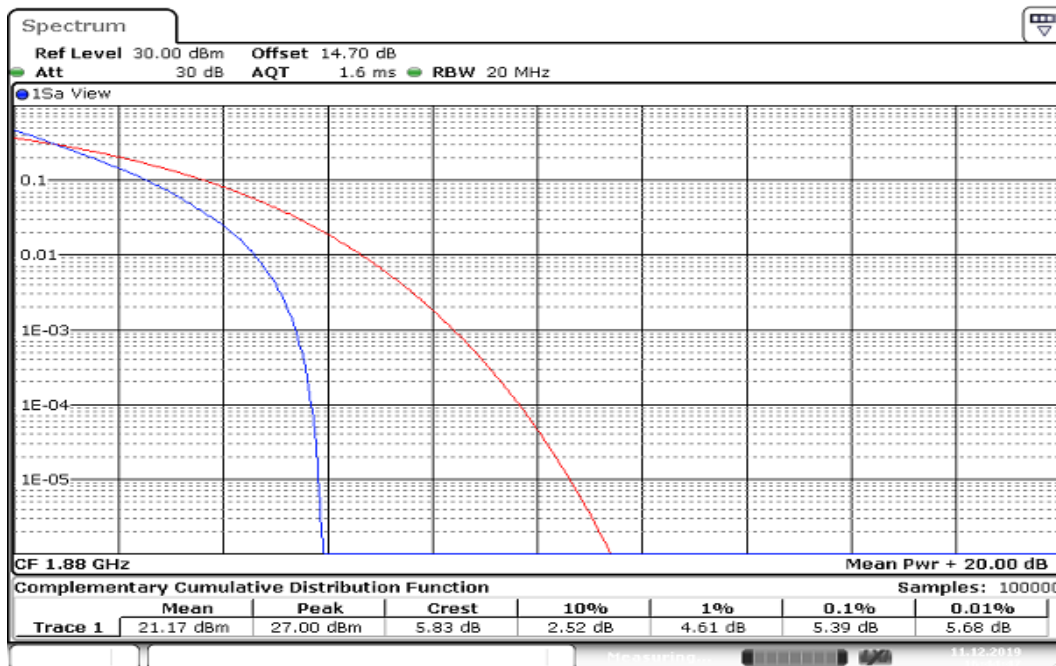
Date: 11.DEC.2019 16:42:25

BW: 10MHz / 16QAM /RB =100%, RB Offset = 0
CH Mid



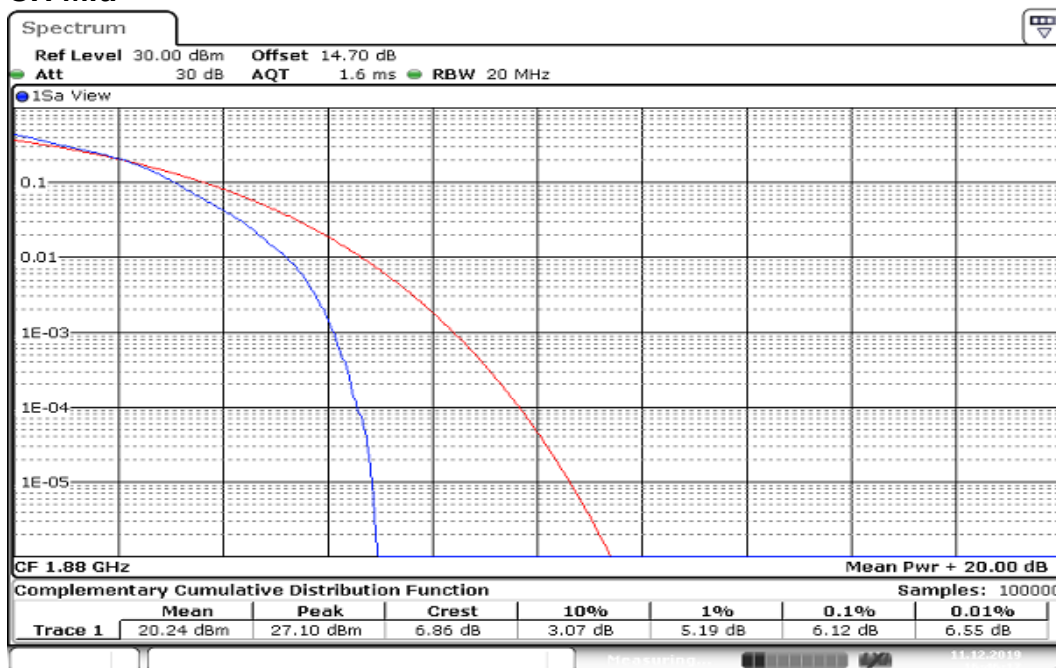
Date: 11.DEC.2019 16:42:48

BW: 15MHz / QPSK /RB =100%, RB Offset = 0
CH Mid



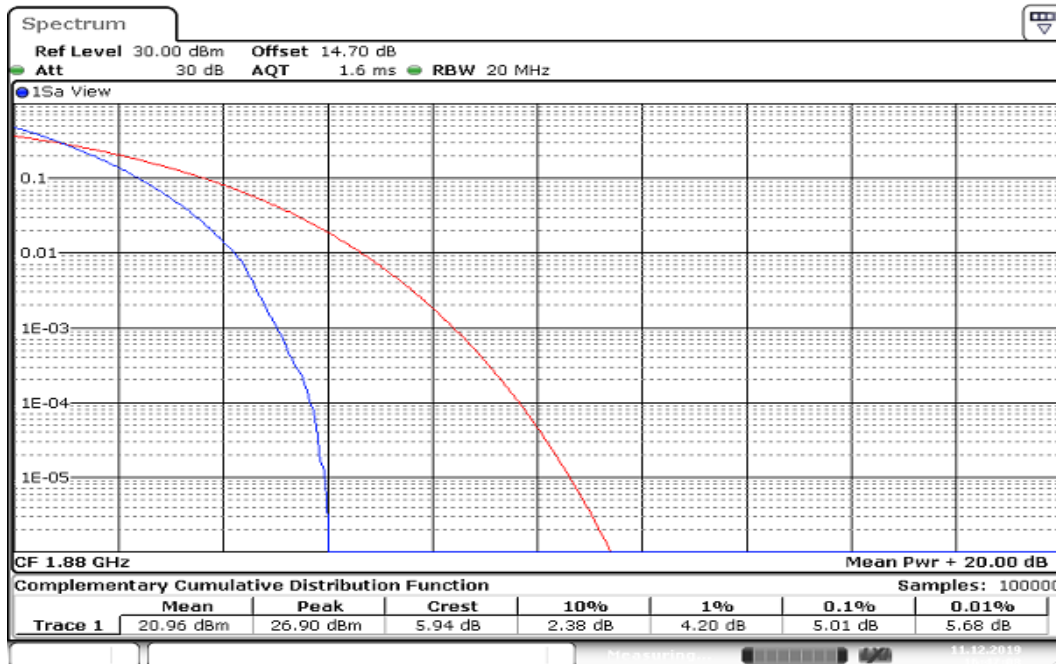
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BW: 15MHz / 16QAM /RB =100%, RB Offset = 0
CH Mid



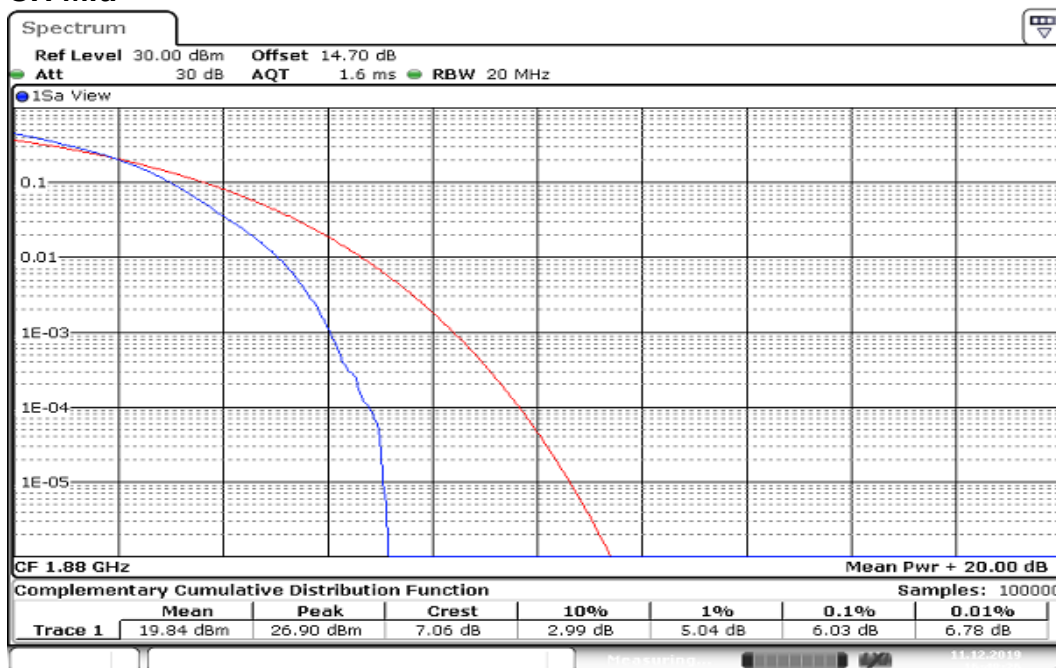
Date: 11.DEC.2019 16:46:17

BW: 20MHz / QPSK / RB =100%, RB Offset = 0
CH Mid

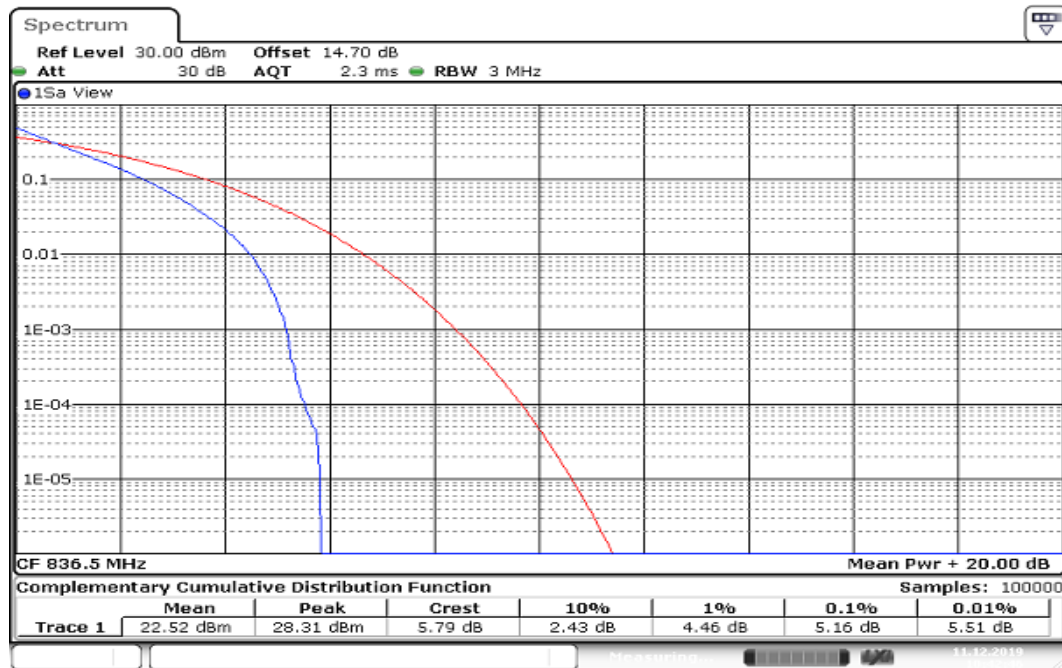
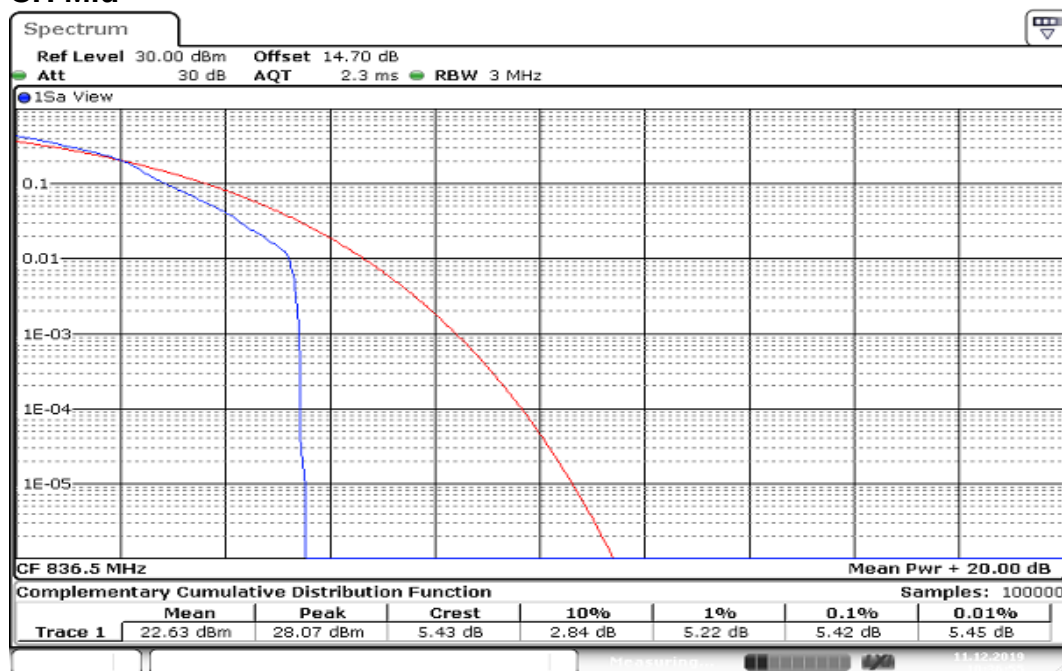


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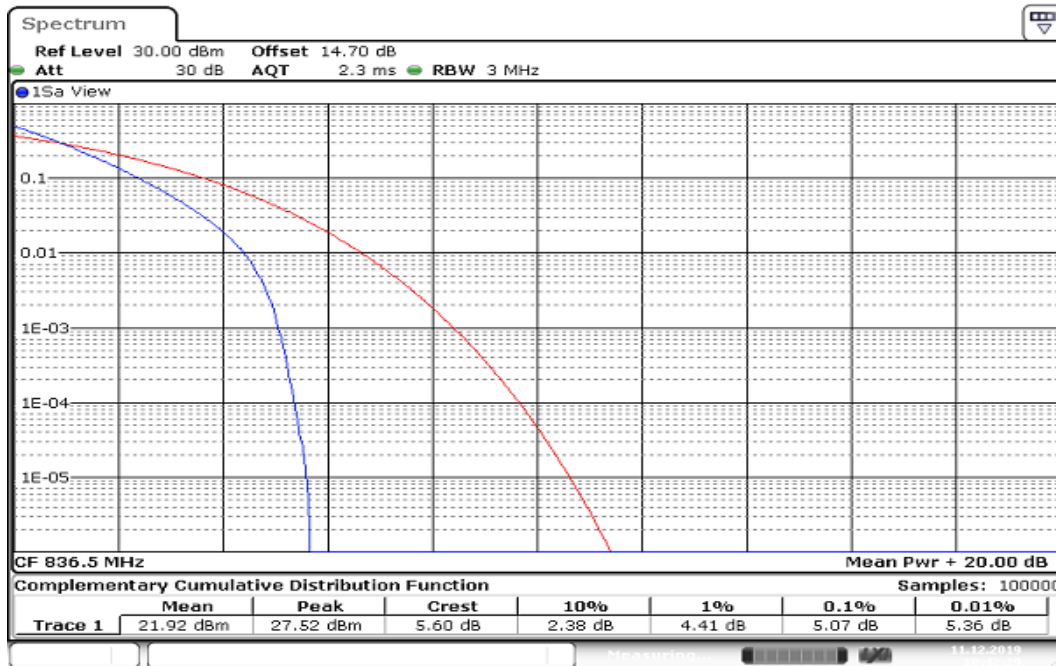
BW: 20MHz / 16QAM / RB =100%, RB Offset = 0
CH Mid



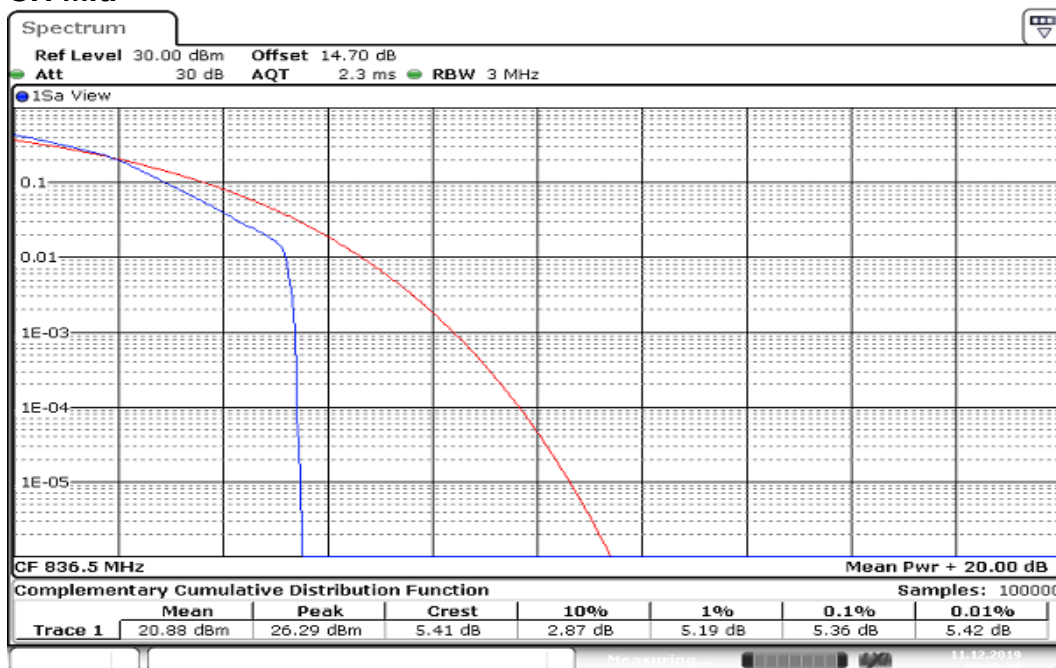
Date: 11.DEC.2019 16:48:26

LTE Band 5**BW: 1.4MHz / QPSK / RB =1, RB Offset = 0****CH Mid****BW: 1.4MHz / 16QAM / RB =1, RB Offset = 0****CH Mid**

BW: 3MHz / QPSK / RB =1, RB Offset = 0
CH Mid

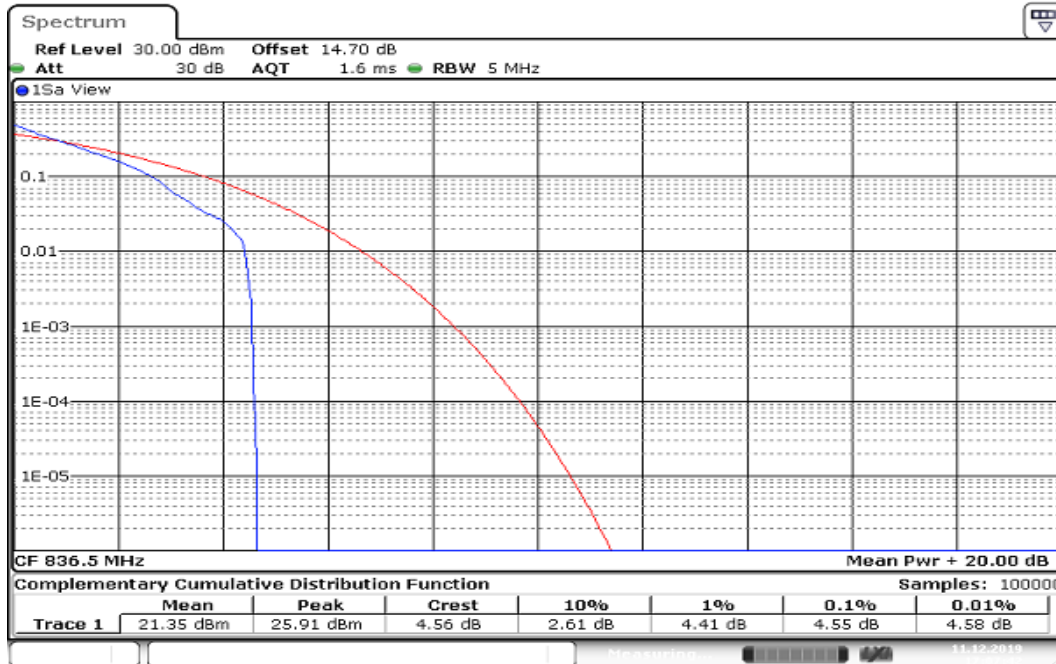


BW: 3MHz / 16QAM / RB =1, RB Offset = 0
CH Mid



BW: 5MHz / QPSK / RB =1, RB Offset = 0

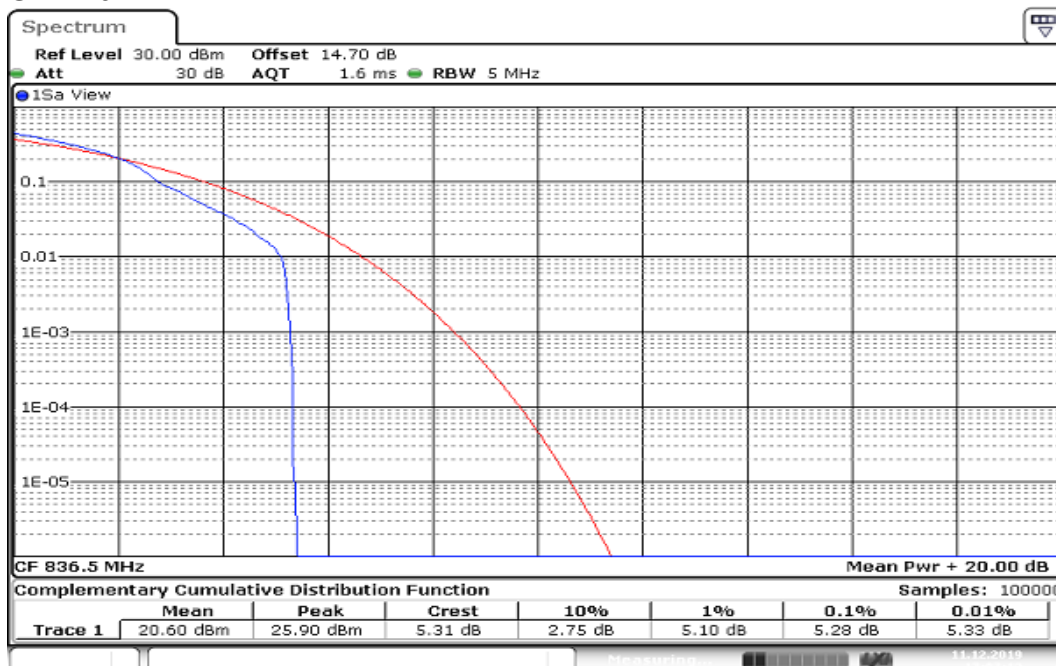
CH Mid



Date: 11.DEC.2019 17:07:42

BW: 5MHz / 16QAM / RB =1, RB Offset = 0

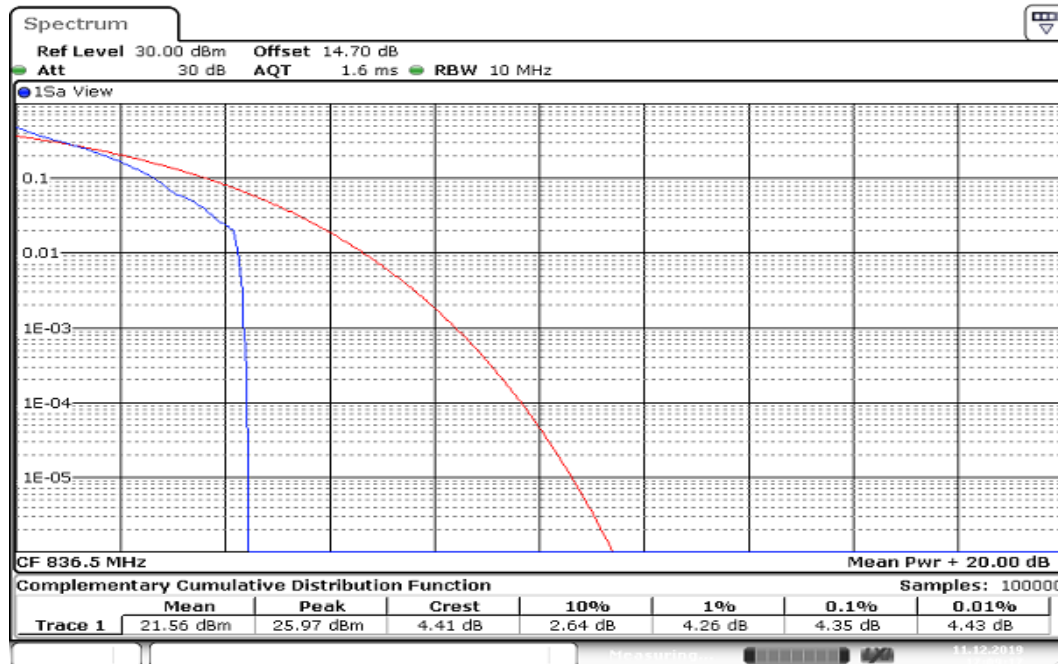
CH Mid



Date: 11.DEC.2019 17:07:13

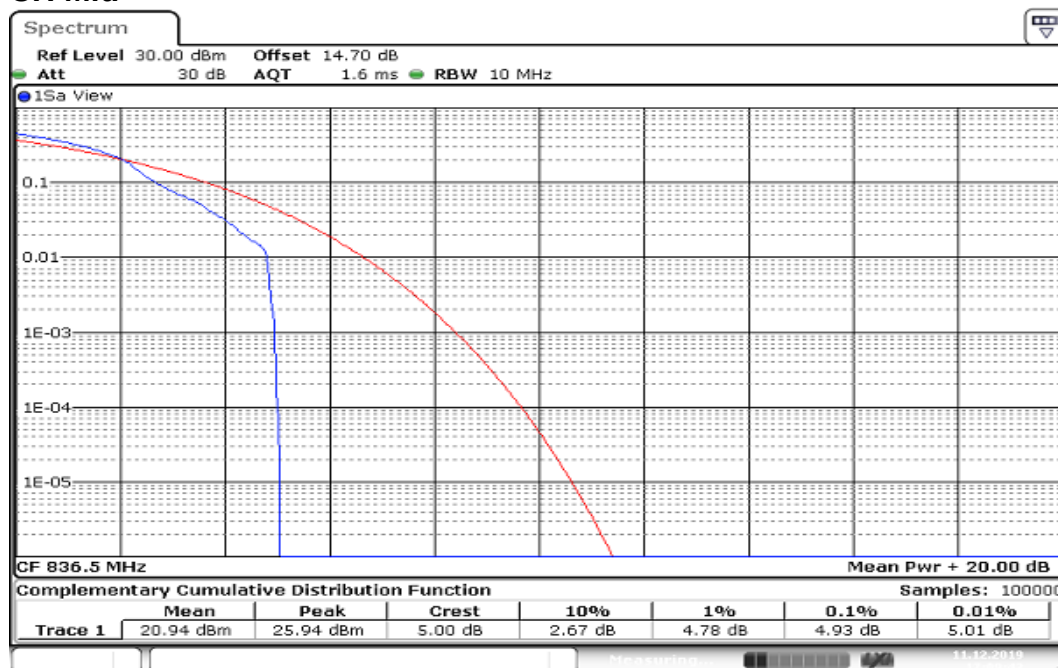
Report No.: T191105W01-RP8

BW: 10MHz / QPSK / RB =1, RB Offset = 0
CH Mid



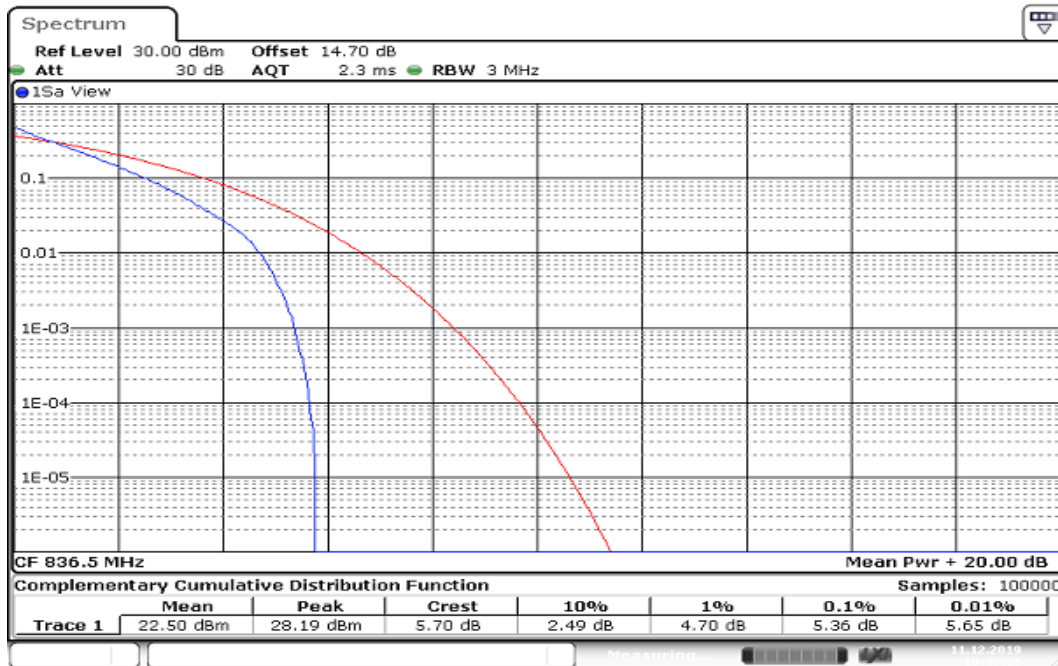
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BW: 10MHz / 16QAM / RB =1, RB Offset = 0
CH Mid



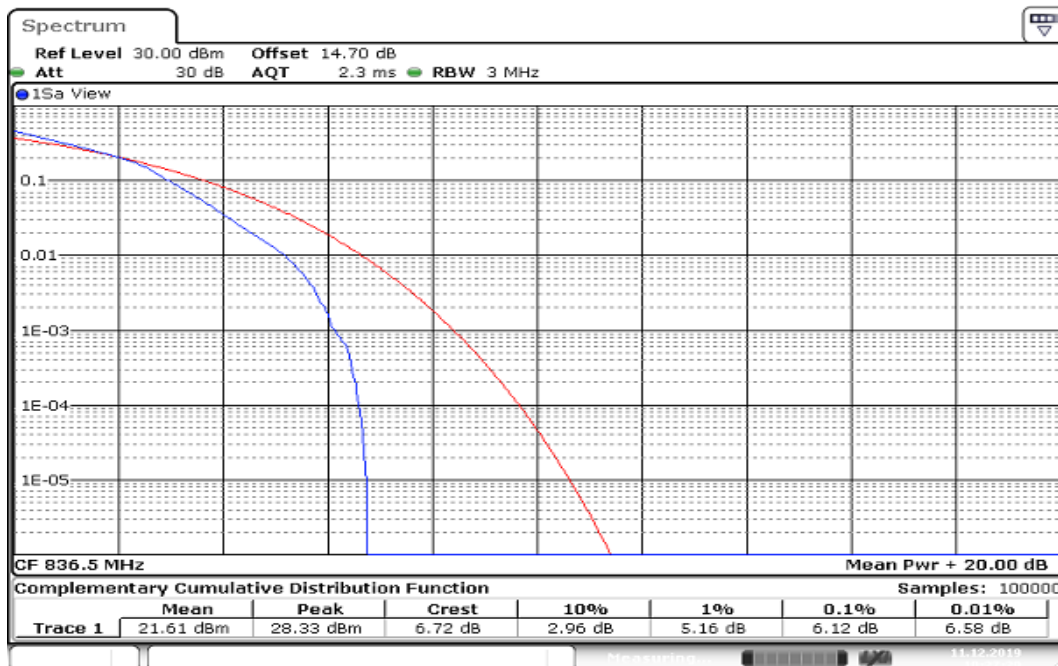
Date: 11.DEC.2019 17:09:43

BW: 1.4MHz / QPSK / RB =100%, RB Offset = 0
CH Mid



Date: 11.DEC.2019 10:43:15

BW: 1.4MHz / 16QAM / RB =100%, RB Offset = 0
CH Mid

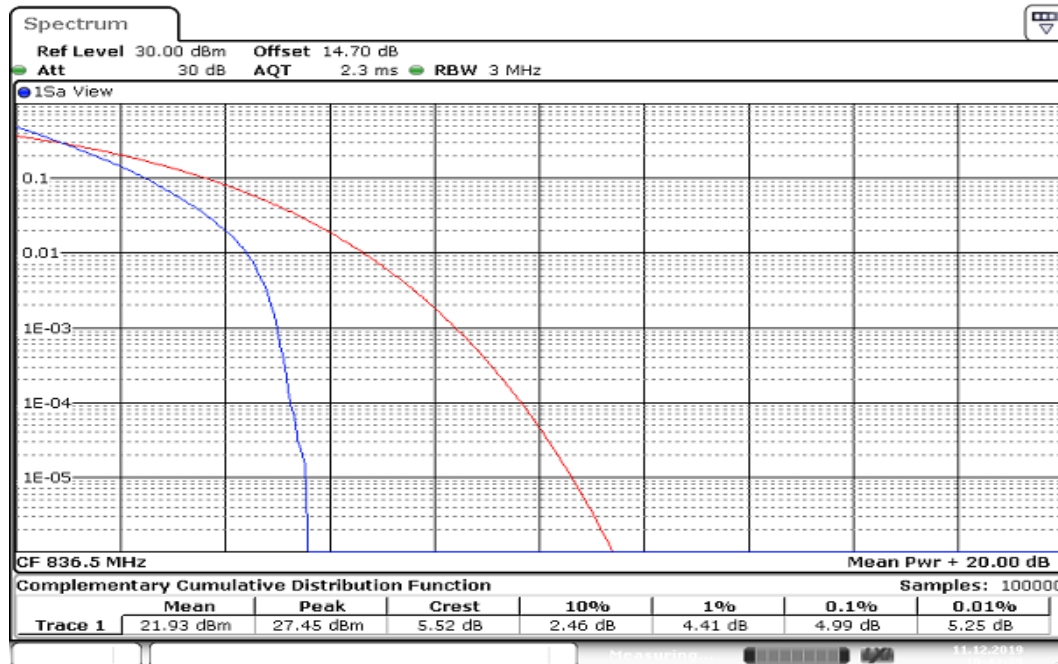


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Report No.: T191105W01-RP8

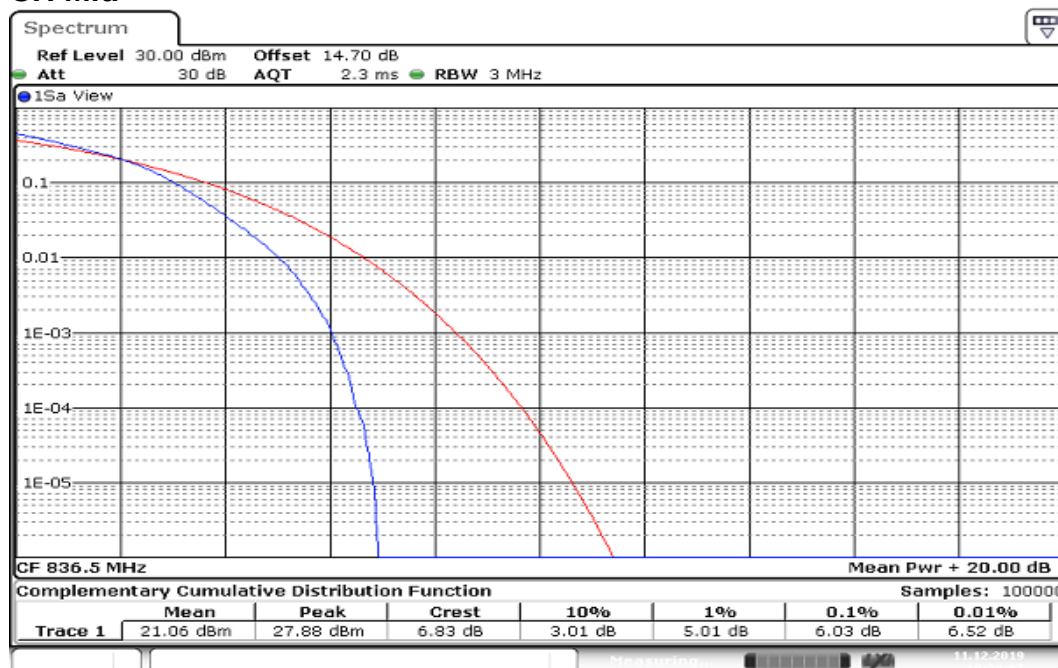
BW: 3MHz / QPSK / RB =100%, RB Offset = 0

CH Mid



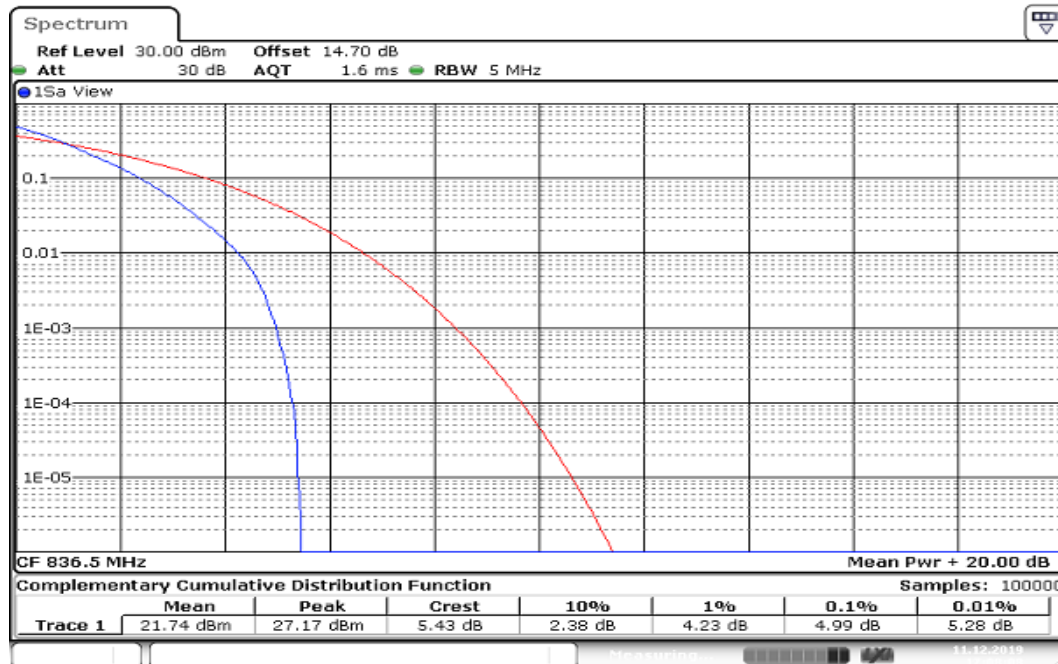
BW: 3MHz / 16QAM / RB =100%, RB Offset = 0

CH Mid



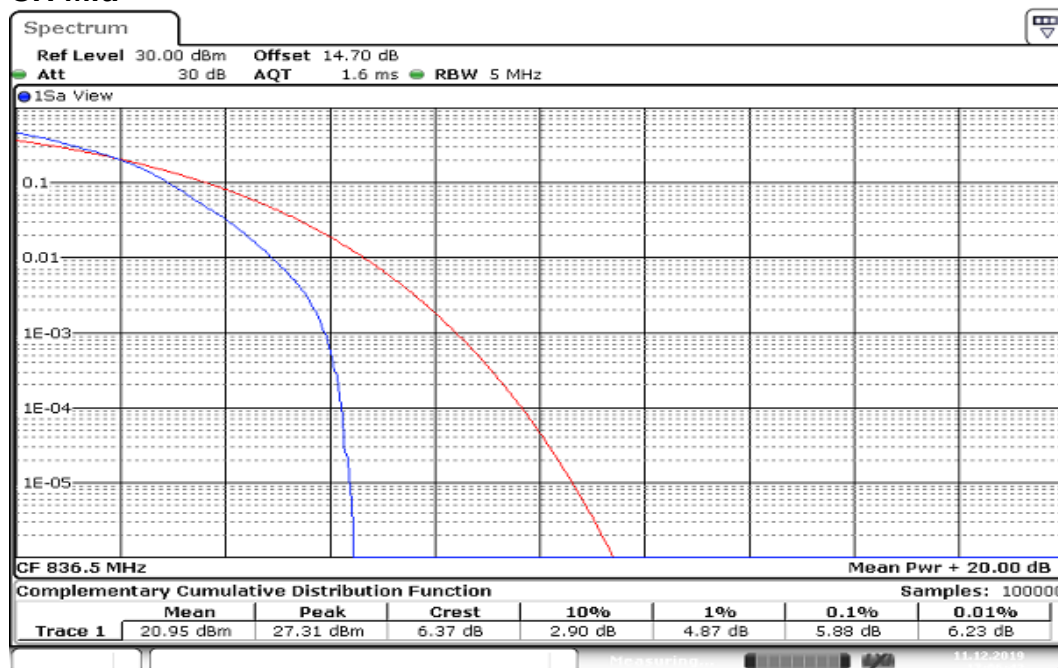
Report No.: T191105W01-RP8

BW: 5MHz / QPSK / RB =100%, RB Offset = 0
CH Mid



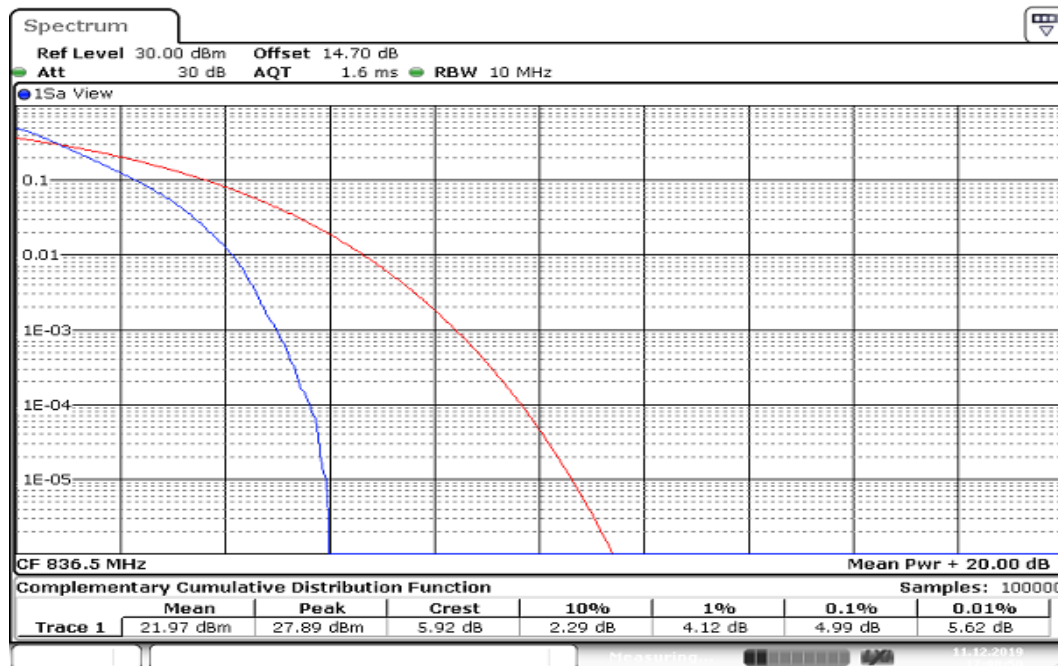
Date: 11.DEC.2019 17:08:08

BW: 5MHz / 16QAM / RB =100%, RB Offset = 0
CH Mid



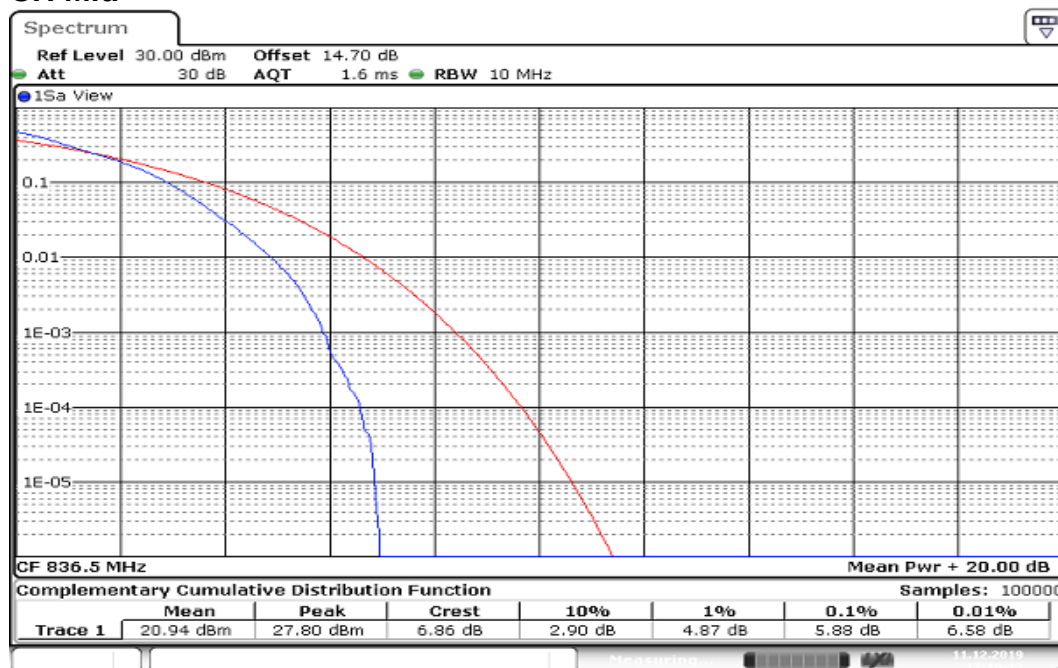
Date: 11.DEC.2019 17:06:42

BW: 10MHz / QPSK / RB =100%, RB Offset = 0
CH Mid



Date: 11.DEC.2019 17:08:50

BW: 10MHz / 16QAM / RB =100%, RB Offset = 0
CH Mid



Date: 11.DEC.2019 17:10:12