FCC Test Report

Product Name	:	WCDMA/LTE Mobile Phone
Trade Name	:	FIH
Model No.	:	EA211002, EC211002, EC211003
FCC ID	:	RYQEA211002
Applicant	:	FIH CO., LTD.
Address	:	No.4, Minsheng St., Tu-Cheng Dist., New Taipei City 23679, Taiwan
Date of Receipt	:	May. 18, 2021
Issued Date	:	Jul. 12, 2021
Report No.	:	2150987R-E3042110012
Report Version	:	V1.0

Testing Laboratory
3024

The test results relate only to the samples tested.
The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.
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Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.
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Test Report Certification

Product Name	:	WCDMA/LTE Mobile Phone
Applicant	:	FIH CO., LTD.
Address	:	No.4, Minsheng St., Tu-Cheng Dist., New Taipei City 23679, Taiwan
Manufacturer	:	FIH CO., LTD.
Address	:	No.4, Minsheng St., Tu-Cheng Dist., New Taipei City 23679, Taiwan
Model No.	:	EA211002, EC211002, EC211003
Trade name	:	FIH
FCC ID	:	RYQEA211002
EUT Voltage	:	DC 5V (adapter or host equipment) DC 3.85V for battery
Testing Voltage	:	DC 5V
Applicable Standard	:	FCC CFR Title 47 Part 22 Subpart H FCC CFR Title 47 Part 24 Subpart E FCC CFR Title 47 Part 27 Subpart L, Subpart F, Subpart D FCC CFR Title 47 Part 90 Subpart R ANSI/TIA-603
Test Lab	:	Hsin Chu Laboratory
Address	:	No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 310, Taiwan, R.O.C. TEL: +886-3-582-8001 / FAX: +886-3-582-8958
Test Result	:	Complied

Documented By : Carol Tsai

(Carol Tsai / Senior Engineering Adm. Specialist)

Tested By : Scott chang

(Scott Chang / Senior Engineer)

Approved By : Louis Hsu

(Louis Hsu / Deputy Manager)

The test results relate only to the samples tested.

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Revision History

Version	Description	Issued Date
V1.0	Initial issue of report	Jul. 12, 2021

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1. General Information

1.1. EUT Description

Product Name	WCDMA/LTE Mobile Phone
Trade Name	FIH
Model No.	EA211002, EC211002, EC211003
Uplink Frequency Range (MHz)	LTE Band 2: 1850~1910 LTE Band 4: 1710~1755 LTE Band 5: 824~849 LTE Band 12: 699~716 LTE Band 14: 788~798 LTE Band 30: 2305~2315
Downlink Frequency Range (MHz)	LTE Band 2: 1930~1990 LTE Band 4: 2110~2155 LTE Band 5: 869~894 LTE Band 12: 729~746 LTE Band 14: 758~768 LTE Band 30: 2350~2360
Bandwidth (MHz)	LTE Band 2: 1.4 / 3 / 5 / 10 / 15 / 20 LTE Band 4: 1.4 / 3 / 5 / 10 / 15 / 20 LTE Band 5: 1.4 / 3 / 5 / 10 LTE Band 12: 1.4 / 3 / 5 / 10 LTE Band 14: 5 / 10 LTE Band 30: 5 / 10
Modulation	QPSK / 16QAM
IMEI No.	350025200008863

Accessories Information	
Type C USB Cable	1pcs, Shielded, 1m
Microphone& Earphone Cable	1pcs, Non-Shielded, 1.5m
Power Adapter	MFR: Shenzhen Baijunda Electronic, M/N: UT-592A-5200ZY I/P: AC 100~240V, 50/60Hz, 0.35A O/P: DC 5V, 2.0A 10W

The difference for each model is shown as below:

Model No.	Operator Variant	Camera Feature		Hardware Version	Software Version
		Rear Camera	Front Camera		
EA211002	AT&T	8MP	5MP	2.0	EA211002_1090U
EC211002	Cricket	8MP	5MP	2.0	EC211002_1090
EC211003	Cricket	8MP	2MP	2.0	EC211003_1090

Note:

1. From the above models, model: EA211002 was selected as representative model for the test and its data was recorded in this report.
2. The EUT description is from the customer declaration.

Antenna Information									
Ant. No.	Manufacturer	Model No.	Ant. Type	Ant. Gain (dBi)					
				LTE Band 2	LTE Band 4	LTE Band 5	LTE Band 12	LTE Band 14	LTE Band 30
0	INPAQ	MEBFL01007A	PIFA/LDS	1.0	-1.3	-4.8	-2.5	-4.3	0.1

Note:

1. This WCDMA/LTE Mobile Phone including WLAN 2.4GHz, WLAN 5GHz, Bluetooth and WWAN (WCDMA and LTE) transmitting and receiving functions.
2. Regards to the frequency band operation; the lowest、middle and highest frequency of channel were selected to perform the test, and then shown on this report.
3. The EUT description is from the customer declaration.
4. The device was tested under all bandwidths, RB configurations and modulations, and the worst case was found in QPSK modulation and show in “Spurious Emission at Antenna Terminals” & “Spurious Emission”.

1.2. Mode of Operation

DEKRA has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Test Mode
Mode 1: LTE Band 2
Mode 2: LTE Band 4
Mode 3: LTE Band 5
Mode 4: LTE Band 12
Mode 5: LTE Band 14
Mode 6: LTE Band 30

Note:

1. Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. The EUT was performed at X axis, Y axis and Z axis position for radiated emission test. The worst case was found at X axis, so the measurement will follow this same test configuration.

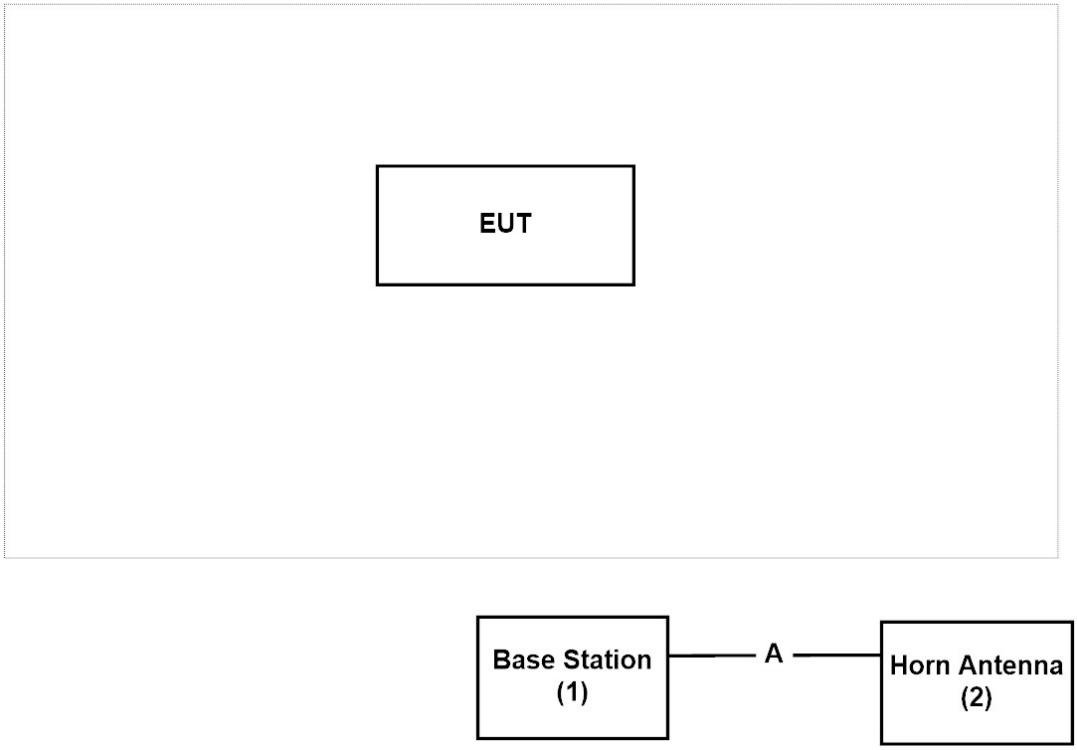
1.3. Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product		Manufacturer	Model No.	Serial No.	Power Cord
1	Base Station	R&S	CMW500	157118	Non-Shielded, 2m
2	Horn Antenna	Schwarzbeck	BBHA 9120D	1640	--

1.4. Configuration of tested System

Connection Diagram



Signal cable type		Signal cable description
A	RF cable	Shielded, 6m

1.5. EUT Exercise Software

1	Set the EUT as shown.
2	EUT is connected through the base station.
3	Configure test mode, test channel and data rate.
4	Let the EUT start sending transmit or receiving continuously.
5	Verify that device is working properly.

1.6. Comments and Remarks

The product specification and testing instructions for the EUT declared in the report are provided by the manufacturer who will take all responsibilities for the accuracy.

2. Technical Test

2.1. Summary of Test Result

☒ No deviations from the test standards

☐ Deviations from the test standards as below description:

B2

Uplink: 1850-1910MHz

Downlink: 1930-1990MHz

LTE B2			
FCC Part 24 Subpart E			
Test item	FCC Reference section	FCC Limit	Result
RF Output Power	§2.1033 §2.1046 §24.232	<2 Watts	Pass
Occupied Bandwidth	§2.1049	N/A	Pass
Peak-to-average power ratio	§24.232	<13 dB	Pass
Spurious Emissions	§2.1053 §24.238	<-13dBm	Pass
Spurious Emissions at Antenna Terminals	§27.238	<-13dBm	Pass
Frequency Stability	§2.1055 §24.235	<±2.5 ppm	Pass

Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

B4

Uplink: 1710-1755MHz

Downlink: 2100-2155MHz

LTE B4			
FCC Part 27 Subpart L			
Test item	FCC Reference section	FCC Limit	Result
RF Output Power	§2.1033 §2.1046 §27.50	<1 Watt	Pass
Occupied Bandwidth	§2.1049	N/A	Pass
Peak-to-average power ratio	§27.50	<13 dB	Pass
Spurious Emissions	§2.1053 §27.53	<-13dBm	Pass
Spurious Emissions at Antenna Terminals	§27.53	<-13dBm	Pass
Frequency Stability	§2.1055 §27.54	<2.5 ppm	Pass

Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

B5

Uplink: 824-849MHz

Downlink: 869-894MHz

LTE B5			
FCC Part 22 Subpart H			
Test item	FCC Reference section	FCC Limit	Result
RF Output Power	§2.1033 §2.1046 §22.913	<7 Watts	Pass
Occupied Bandwidth	§2.1049	N/A	Pass
Peak-to-average power ratio	§22.913	<13 dB	Pass
Spurious Emissions	§2.1053 §22.917	<-13dBm	Pass
Spurious Emissions at Antenna Terminals	§22.917	<-13dBm	Pass
Frequency Stability	§2.1055 §22.335	<±2.5 ppm	Pass

Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

B12

Uplink: 699-716MHz

Downlink: 729-746MHz

LTE B12			
FCC Part 27 Subpart F			
Test item	FCC Reference section	FCC Limit	Result
RF Output Power	§2.1033 §2.1046 §27.50	<3 Watts ERP	Pass
Occupied Bandwidth	§2.1049	N/A	Pass
Peak-to-average power ratio	§27.50	<13 dB	Pass
Spurious Emissions	§2.1053 §27.53	<-13dBm	Pass
Spurious Emissions at Antenna Terminals	§27.53	<-13dBm	Pass
Frequency Stability	§2.1055 §27.54	<±2.5 ppm	Pass

Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

B14

Uplink: 788-798MHz

Downlink: 758-768MHz

LTE B14			
FCC Part 90 Subpart R			
Test item	FCC Reference section	FCC Limit	Result
RF Output Power	§2.1033 §2.1046 §90.542	<3 Watts ERP	Pass
Occupied Bandwidth	§2.1049	N/A	Pass
Peak-to-average power ratio	§27.50	<13 dB	Pass
Spurious Emissions	§2.1053 §90.543	<-13dBm	Pass
Spurious Emissions at Antenna Terminals	§90.543	<-35dBm	Pass
Frequency Stability	§2.1055 §90.543	<±2.5 ppm	Pass

Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

B30

Uplink: 2305~2315MHz

Downlink: 2350~2360MHz

LTE B30			
FCC Part 27 Subpart D			
Test item	FCC Reference section	FCC Limit	Result
RF Output Power	§2.1033 §2.1046 §27.50	<250 mW pwithin any 5 MHz bandwidth in average value EIRP: <50 mW pwithin any 1 MHz bandwidth in average value	Pass
Occupied Bandwidth	§2.1049	N/A	Pass
Peak-to-average power ratio	§27.50	<13 dB	Pass
Spurious Emissions	§2.1053 §27.53	<-40dBm	Pass
Spurious Emissions at Antenna Terminals	§27.53	<-40dBm	Pass
Frequency Stability	§2.1055 §27.54	<±2.5 ppm	Pass

Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.2. Test Environment

Items	Required	Test Site
Temperature (°C)	15-35	2
Humidity (%RH)	25-75	

Note: Test site information refers to Laboratory Information.

Laboratory Information

USA	**:**	**FCC Registration Number: TW3024**
Canada	**:**	**IC Registration Number: 22397-1 / 22397-2 / 22397-3**

The address and introduction of DEKRA Testing and Certification Co., Ltd. laboratories can be founded in our Web site: http://www.dekra.com.tw

If you have any comments, please don't hesitate to contact us. Our test sites as below:

Test Laboratory	DEKRA Testing and Certification Co., Ltd.
Address	1. No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C. 2. No.372, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C.
Phone number	1. +886-3-582-8001 2. +886-3-582-8001
Fax number	1. +886-3-582-8958 2. +886-3-582-8958
E mail address	info.tw@dekra.com
Website	http://www.dekra.com.tw

2.3. List of Test Equipment

Conducted

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
High Speed Peak Power Meter Dual Input	Anritsu	ML2496A	1602004	2020/11/30	2021/11/29
Pulse Power Sensor	Anritsu	MA2411B	1531043	2020/11/30	2021/11/29
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2021/01/25	2022/01/24
Pulse Power Sensor	Anritsu	MA2411B	1531044	2020/11/30	2021/11/29
Power Meter	Keysight	8990B	MY51000248	2021/05/21	2022/05/20
Power Sensor	Keysight	N1923A	MY57240005	2021/05/21	2022/05/20
Spectrum Analyzer	Keysight	N9030B	MY57140404	2021/05/14	2022/05/13
Spectrum Analyzer	Keysight	N9010B	MY57110159	2021/03/29	2022/03/28
Wideband Radio Communication Tester	R&S	CMW500	106071	2021/01/27	2022/01/26
Wireless Conn. Tseter	R&S	CMW500	157118	2020/07/23	2021/07/22
Spectrum Analyzer	Agilent	N9010A	US47140172	2020/06/18	2021/06/17

Radiated

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal Analyzer	R&S	FSVA40	101455	2020/10/12	2021/10/11
Signal & Spectrum Analyzer	R&S	FSV40	101049	2021/03/31	2022/03/30
Signal Analyzer	R&S	FSVA40	101435	2020/06/24	2021/06/23
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2021/01/25	2022/01/24
Bilog Antenna	Teseq	CBL6112D	23191	2021/02/26	2022/02/25
Horn Antenna	Schwarzbeck	BBHA 9120D	639	2020/06/04	2021/06/03
Horn Antenna	Schwarzbeck	BBHA 9170	202	2020/12/16	2021/12/15
Pre-Amplifier	EMCI	EMC01820I	980365	2020/06/19	2021/06/18
Pre-Amplifier	EMEC	EM01G18GA	060741	2020/07/24	2021/07/23
Pre-Amplifier	DEKRA	AP-400C	201801231	2020/11/16	2021/11/15
Wideband Radio Communication Tester	R&S	CMW500	106071	2021/01/27	2022/01/26
Wireless Conn. Tseter	R&S	CMW500	157118	2020/07/23	2021/07/22
Coaxial Cable(13m)	Huber+Suhner	SF104	CB2-H	2020/07/25	2021/07/24
DEKRA Testing System	DEKRA	Version 2.0	CB2-H	NA	NA

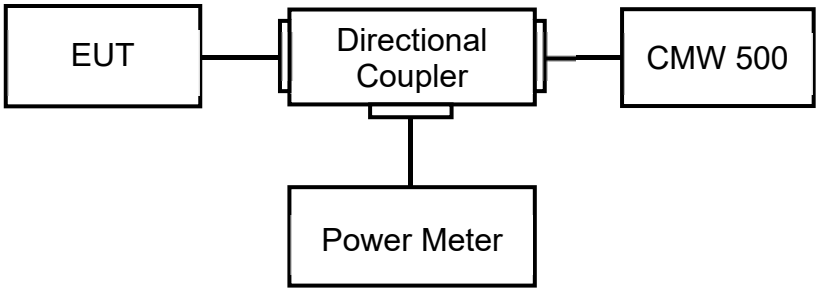
Note: All equipment upon which need to calibrated are with calibration period of 1 year.

2.4. Uncertainty

Test Item	Uncertainty
RF Output Power	±1.27 dB
Occupied Bandwidth	± 10 Hz
Peak To Average Ratio	Not exceed 13 dB
Spurious Emissions	± 1.27 dB for Conducted Measurement ± 3.2 dB for Radiated Measurement
Spurious Emissions at Antenna Terminals	± 3.2 dB
Frequency Stability	± 10 Hz

3. RF Output Power

3.1. Test Setup



3.2. Test Procedure

a) The RF output of the transmitter was connected to base station simulator.
b) The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
c) Set EUT at maximum average power by base station simulator.
d) Measure lowest, middle, and highest channels for each bandwidth and different modulation.

Effective Isotropic Radiated Power = Conducted Power(dBm) + Antenna Gain(dBi)
Effective Radiated Power = Conducted Power(dBm) + Antenna Gain(dBi) - 2.15dB
The conversion of dBm to watts is given by the formula:

$$P_{(W)} = 1W \times \frac{10^{\left(\frac{P_{(dBm)}}{10}\right)}}{1000} = 10^{((P_{(dBm)}-30)/10)}$$

3.3. Test Method

KDB 971168 D01 Power Meas License Digital Systems v03 sub-clause 5.2.4
ANSI C63.26: 2015 Sub-clause 5.2.4.2

3.4. Test Result

Product Name	WCDMA/LTE Mobile Phone		
Test Mode	Mode 1: LTE Band 2		
Date of Test	2021/06/04	Test Site	SR12-H
Temperature(°C)	23	Humidity (%RH)	68

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (W) EIRP	Limit (W) EIRP
Band 2 1.4MHz	18607 1850.7	QPSK	1	0	0	23.08	0.256	2
		QPSK		2		23.23	0.265	2
		QPSK		5		23.10	0.257	2
		QPSK	3	0	0	23.10	0.257	2
		QPSK		1		23.18	0.262	2
		QPSK		2		23.21	0.264	2
		QPSK	6	0	1	22.00	0.200	2
		16-QAM	1	0	1	22.06	0.202	2
		16-QAM		2		22.16	0.207	2
		16-QAM		5		22.10	0.204	2
		16-QAM	3	0	1	22.28	0.213	2
		16-QAM		1		22.33	0.215	2
		16-QAM		2		22.35	0.216	2
		16-QAM	6	0	2	20.98	0.158	2
	18900 1880	QPSK	1	0	0	22.83	0.242	2
		QPSK		2		23.02	0.252	2
		QPSK		5		22.84	0.242	2
		QPSK	3	0	0	22.99	0.251	2
		QPSK		1		23.01	0.252	2
		QPSK		2		22.96	0.249	2
		QPSK	6	0	1	21.92	0.196	2
		16-QAM	1	0	1	21.45	0.176	2
		16-QAM		2		21.64	0.184	2
		16-QAM		5		21.53	0.179	2
		16-QAM	3	0	1	22.25	0.211	2
		16-QAM		1		22.28	0.213	2
		16-QAM		2		22.27	0.212	2
		16-QAM	6	0	2	20.85	0.153	2
	19193 1909.3	QPSK	1	0	0	23.01	0.252	2
		QPSK		2		23.21	0.264	2
		QPSK		5		23.00	0.251	2
		QPSK	3	0	0	23.07	0.255	2
		QPSK		1		23.08	0.256	2
		QPSK		2		23.09	0.256	2
		QPSK	6	0	1	21.98	0.199	2
		16-QAM	1	0	1	21.82	0.191	2
		16-QAM		2		21.96	0.198	2
		16-QAM		5		21.87	0.194	2
		16-QAM	3	0	1	22.10	0.204	2
		16-QAM		1		22.15	0.207	2
		16-QAM		2		22.14	0.206	2
		16-QAM	6	0	2	21.01	0.159	2

Note:
1. Measure Level (EIRP) = Reading Level (dBm) + Antenna Gain(dBi)
2. power (W)= $(10^{(power(dBm)/10)})*10^{-3}$

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (W) EIRP	Limit (W) EIRP
Band 2 3MHz	18615 1851.5	QPSK	1	0	0	23.02	0.252	2
		QPSK		7		23.00	0.251	2
		QPSK		14		22.93	0.247	2
		QPSK	8	0	1	22.09	0.204	2
		QPSK		4		22.11	0.205	2
		QPSK		7		22.08	0.203	2
		QPSK	15	0	1	22.15	0.207	2
		16-QAM	1	0	1	22.66	0.232	2
		16-QAM		7		22.60	0.229	2
		16-QAM		14		22.52	0.225	2
		16-QAM	8	0	2	21.27	0.169	2
		16-QAM		4		21.21	0.166	2
		16-QAM		7		21.22	0.167	2
		16-QAM	15	0	2	21.27	0.169	2
	18900 1880	QPSK	1	0	0	23.03	0.253	2
		QPSK		7		23.05	0.254	2
		QPSK		14		23.02	0.252	2
		QPSK	8	0	1	21.93	0.196	2
		QPSK		4		21.94	0.197	2
		QPSK		7		21.96	0.198	2
		QPSK	15	0	1	22.00	0.200	2
		16-QAM	1	0	1	21.82	0.191	2
		16-QAM		7		21.80	0.191	2
		16-QAM		14		21.79	0.190	2
		16-QAM	8	0	2	20.93	0.156	2
		16-QAM		4		20.94	0.156	2
		16-QAM		7		20.93	0.156	2
		16-QAM	15	0	2	20.90	0.155	2
	19185 1908.5	QPSK	1	0	0	23.05	0.254	2
		QPSK		7		23.11	0.258	2
		QPSK		14		23.10	0.257	2
		QPSK	8	0	1	22.07	0.203	2
		QPSK		4		22.05	0.202	2
		QPSK		7		22.02	0.200	2
		QPSK	15	0	1	22.02	0.200	2
		16-QAM	1	0	1	21.94	0.197	2
		16-QAM		7		21.96	0.198	2
		16-QAM		14		21.89	0.195	2
		16-QAM	8	0	2	21.05	0.160	2
		16-QAM		4		21.09	0.162	2
		16-QAM		7		21.07	0.161	2
		16-QAM	15	0	2	21.04	0.160	2

Note:
1. Measure Level (EIRP) = Reading Level (dBm) + Antenna Gain(dBi)
2. power (W)= $(10^{(power(dBm)/10)})*10^{-3}$

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (W) EIRP	Limit (W) EIRP
Band 2 5MHz	18625 1852.5	QPSK	1	0	0	23.01	0.252	2
		QPSK		12		23.17	0.261	2
		QPSK		24		22.96	0.249	2
		QPSK	12	0	1	22.06	0.202	2
		QPSK		6		22.12	0.205	2
		QPSK		11		22.13	0.206	2
		QPSK	25	0		22.09	0.204	2
		16-QAM	1	0	1	21.99	0.199	2
		16-QAM		12		22.09	0.204	2
		16-QAM		24		21.96	0.198	2
		16-QAM	12	0	2	21.17	0.165	2
		16-QAM		6		21.12	0.163	2
		16-QAM		11		21.20	0.166	2
		16-QAM	25	0		21.23	0.167	2
	18900 1880	QPSK	1	0	0	22.84	0.242	2
		QPSK		12		23.02	0.252	2
		QPSK		24		22.90	0.245	2
		QPSK	12	0	1	21.95	0.197	2
		QPSK		6		21.94	0.197	2
		QPSK		11		22.08	0.203	2
		QPSK	25	0		21.99	0.199	2
		16-QAM	1	0	1	22.31	0.214	2
		16-QAM		12		22.45	0.221	2
		16-QAM		24		22.34	0.216	2
		16-QAM	12	0	2	21.11	0.163	2
		16-QAM		6		21.24	0.167	2
		16-QAM		11		21.25	0.168	2
		16-QAM	25	0		21.06	0.161	2
	19175 1907.5	QPSK	1	0	0	22.84	0.242	2
		QPSK		12		23.04	0.254	2
		QPSK		24		22.88	0.244	2
		QPSK	12	0	1	21.98	0.199	2
		QPSK		6		22.07	0.203	2
		QPSK		11		22.09	0.204	2
		QPSK	25	0		22.05	0.202	2
		16-QAM	1	0	1	21.92	0.196	2
		16-QAM		12		22.09	0.204	2
		16-QAM		24		21.96	0.198	2
		16-QAM	12	0	2	20.90	0.155	2
		16-QAM		6		20.89	0.155	2
		16-QAM		11		21.02	0.159	2
		16-QAM	25	0		21.06	0.161	2

Note:
1. Measure Level (EIRP) = Reading Level (dBm) + Antenna Gain(dBi)
2. power (W)= $(10^{(power(dBm)/10)})*10^{-3}$

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (W) EIRP	Limit (W) EIRP
Band 2 10MHz	18650 1855	QPSK	1	0	0	23.07	0.255	2
		QPSK		24		23.17	0.261	2
		QPSK		49		23.01	0.252	2
		QPSK	25	0	1	22.09	0.204	2
		QPSK		12		22.03	0.201	2
		QPSK		24		22.19	0.208	2
		QPSK	50	0		22.10	0.204	2
		16-QAM	1	0	1	22.64	0.231	2
		16-QAM		24		22.18	0.208	2
		16-QAM		49		22.64	0.231	2
		16-QAM	25	0	2	21.17	0.165	2
		16-QAM		12		21.30	0.170	2
		16-QAM		24		21.31	0.170	2
		16-QAM	50	0		21.20	0.166	2
	18900 1880	QPSK	1	0	0	23.07	0.255	2
		QPSK		24		23.26	0.267	2
		QPSK		49		23.07	0.255	2
		QPSK	25	0	1	21.96	0.198	2
		QPSK		12		22.18	0.208	2
		QPSK		24		22.17	0.207	2
		QPSK	50	0		22.07	0.203	2
		16-QAM	1	0	1	21.87	0.194	2
		16-QAM		24		22.10	0.204	2
		16-QAM		49		21.83	0.192	2
		16-QAM	25	0	2	21.07	0.161	2
		16-QAM		12		21.09	0.162	2
		16-QAM		24		21.23	0.167	2
		16-QAM	50	0		21.12	0.163	2
	19150 1905	QPSK	1	0	0	23.06	0.255	2
		QPSK		24		23.15	0.260	2
		QPSK		49		23.13	0.259	2
		QPSK	25	0	1	22.01	0.200	2
		QPSK		12		22.06	0.202	2
		QPSK		24		22.14	0.206	2
		QPSK	50	0		22.09	0.204	2
		16-QAM	1	0	1	21.96	0.198	2
		16-QAM		24		22.21	0.209	2
		16-QAM		49		21.98	0.199	2
		16-QAM	25	0	2	21.21	0.166	2
		16-QAM		12		21.32	0.171	2
		16-QAM		24		21.37	0.173	2
		16-QAM	50	0		21.15	0.164	2

Note:
1. Measure Level (EIRP) = Reading Level (dBm) + Antenna Gain(dBi)
2. power (W)= $(10^{(power(dBm)/10)})*10^{-3}$

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (W) EIRP	Limit (W) EIRP
Band 2 15MHz	18675 1857.5	QPSK	1	0	0	22.99	0.251	2
		QPSK		37		23.01	0.252	2
		QPSK		74		22.86	0.243	2
		QPSK	36	0	1	22.09	0.204	2
		QPSK		19		22.12	0.205	2
		QPSK		38		22.13	0.206	2
		QPSK	75	0		22.09	0.204	2
		16-QAM	1	0	1	22.60	0.229	2
		16-QAM		37		22.65	0.232	2
		16-QAM		74		22.58	0.228	2
		16-QAM	36	0	2	21.11	0.163	2
		16-QAM		19		21.15	0.164	2
		16-QAM		38		21.09	0.162	2
		16-QAM	75	0		21.16	0.164	2
	18900 1880	QPSK	1	0	0	23.00	0.251	2
		QPSK		37		23.11	0.258	2
		QPSK		74		23.04	0.254	2
		QPSK	36	0	1	22.04	0.201	2
		QPSK		19		22.06	0.202	2
		QPSK		38		22.17	0.207	2
		QPSK	75	0		22.12	0.205	2
		16-QAM	1	0	1	21.80	0.191	2
		16-QAM		37		21.90	0.195	2
		16-QAM		74		21.82	0.191	2
		16-QAM	36	0	2	20.94	0.156	2
		16-QAM		19		21.15	0.164	2
		16-QAM		38		21.13	0.163	2
		16-QAM	75	0		21.14	0.164	2
	19125 1902.5	QPSK	1	0	0	22.84	0.242	2
		QPSK		37		23.06	0.255	2
		QPSK		74		23.00	0.251	2
		QPSK	36	0	1	22.12	0.205	2
		QPSK		19		22.25	0.211	2
		QPSK		38		22.24	0.211	2
		QPSK	75	0		22.21	0.209	2
		16-QAM	1	0	1	22.16	0.207	2
		16-QAM		37		22.35	0.216	2
		16-QAM		74		22.20	0.209	2
		16-QAM	36	0	2	21.12	0.163	2
		16-QAM		19		21.16	0.164	2
		16-QAM		38		21.25	0.168	2
		16-QAM	75	0		21.16	0.164	2

Note:
1. Measure Level (EIRP) = Reading Level (dBm) + Antenna Gain(dBi)
2. power (W)= $(10^{(power(dBm)/10)})*10^{-3}$

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (W) EIRP	Limit (W) EIRP
Band 2 20MHz	18700 1860	QPSK	1	0	0	22.98	0.250	2
		QPSK		49		23.25	0.266	2
		QPSK		99		22.92	0.247	2
		QPSK	50	0	1	22.03	0.201	2
		QPSK		25		22.05	0.202	2
		QPSK		49		21.89	0.195	2
		QPSK	100	0		21.96	0.198	2
		16-QAM	1	0	1	22.38	0.218	2
		16-QAM		49		22.70	0.234	2
		16-QAM		99		22.40	0.219	2
		16-QAM	50	0	2	21.04	0.160	2
		16-QAM		25		20.96	0.157	2
		16-QAM		49		20.97	0.157	2
		16-QAM	100	0		21.04	0.160	2
	18900 1880	QPSK	1	0	0	22.98	0.250	2
		QPSK		49		23.39	0.275	2
		QPSK		99		23.01	0.252	2
		QPSK	50	0	1	21.90	0.195	2
		QPSK		25		22.14	0.206	2
		QPSK		49		22.16	0.207	2
		QPSK	100	0		22.04	0.201	2
		16-QAM	1	0	1	21.80	0.191	2
		16-QAM		49		22.76	0.238	2
		16-QAM		99		21.91	0.195	2
		16-QAM	50	0	2	20.93	0.156	2
		16-QAM		25		20.89	0.155	2
		16-QAM		49		21.20	0.166	2
		16-QAM	100	0		21.10	0.162	2
	19100 1900	QPSK	1	0	0	22.77	0.238	2
		QPSK		49		23.27	0.267	2
		QPSK		99		22.87	0.244	2
		QPSK	50	0	1	22.18	0.208	2
		QPSK		25		22.21	0.209	2
		QPSK		49		22.25	0.211	2
		QPSK	100	0		22.23	0.210	2
		16-QAM	1	0	1	22.09	0.204	2
		16-QAM		49		22.36	0.217	2
		16-QAM		99		22.10	0.204	2
		16-QAM	50	0	2	21.28	0.169	2
		16-QAM		25		21.25	0.168	2
		16-QAM		49		21.24	0.167	2
		16-QAM	100	0		21.32	0.171	2

Note:
1. Measure Level (EIRP) = Reading Level (dBm) + Antenna Gain(dBi)
2. power (W)= $(10^{(power(dBm)/10)})*10^{-3}$

Product Name	WCDMA/LTE Mobile Phone		
Test Mode	Mode 2: LTE Band 4		
Date of Test	2021/06/04	Test Site	SR12-H
Temperature(°C)	23	Humidity (%RH)	68

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (W) EIRP	Limit (W) EIRP
Band 4 1.4MHz	19957 1710.7	QPSK	1	0	0	23.24	0.156	1
		QPSK		2		23.40	0.162	1
		QPSK		5		23.24	0.156	1
		QPSK	3	0	0	23.34	0.160	1
		QPSK		1		23.31	0.159	1
		QPSK		2		23.30	0.158	1
		QPSK	6	0	1	22.30	0.126	1
		16-QAM	1	0	1	22.04	0.119	1
		16-QAM		2		22.23	0.124	1
		16-QAM		5		22.05	0.119	1
		16-QAM	3	0	1	22.32	0.126	1
		16-QAM		1		22.29	0.126	1
		16-QAM		2		22.33	0.127	1
		16-QAM	6	0	2	21.32	0.100	1
	20175 1732.5	QPSK	1	0	0	23.08	0.151	1
		QPSK		2		23.29	0.158	1
		QPSK		5		23.09	0.151	1
		QPSK	3	0	0	23.14	0.153	1
		QPSK		1		23.16	0.153	1
		QPSK		2		23.18	0.154	1
		QPSK	6	0	1	22.14	0.121	1
		16-QAM	1	0	1	22.00	0.117	1
		16-QAM		2		22.25	0.124	1
		16-QAM		5		22.03	0.118	1
		16-QAM	3	0	1	22.30	0.126	1
		16-QAM		1		22.32	0.126	1
		16-QAM		2		22.27	0.125	1
		16-QAM	6	0	2	21.05	0.094	1
	20393 1754.3	QPSK	1	0	0	23.08	0.151	1
		QPSK		2		23.21	0.155	1
		QPSK		5		22.91	0.145	1
		QPSK	3	0	0	23.08	0.151	1
		QPSK		1		23.06	0.150	1
		QPSK		2		22.99	0.148	1
		QPSK	6	0	1	21.98	0.117	1
		16-QAM	1	0	1	21.53	0.105	1
		16-QAM		2		21.72	0.110	1
		16-QAM		5		21.53	0.105	1
		16-QAM	3	0	1	22.22	0.124	1
		16-QAM		1		22.25	0.124	1
		16-QAM		2		22.21	0.123	1
		16-QAM	6	0	2	20.95	0.092	1

Note:

1. Measure Level (EIRP) = Reading Level (dBm) + Antenna Gain(dBi)
2. power (W)= $(10^{(power(dBm)/10)})*10^{-3}$

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (W) EIRP	Limit (W) EIRP
Band 4 3MHz	19965 1711.5	QPSK	1	0	0	23.20	0.155	1
		QPSK		7		23.14	0.153	1
		QPSK		14		23.11	0.152	1
		QPSK	8	0	1	22.26	0.125	1
		QPSK		4		22.23	0.124	1
		QPSK		7		22.23	0.124	1
		QPSK	15	0		22.24	0.124	1
		16-QAM	1	0	1	22.76	0.140	1
		16-QAM		7		22.66	0.137	1
		16-QAM		14		22.62	0.136	1
		16-QAM	8	0	2	21.42	0.103	1
		16-QAM		4		21.37	0.102	1
		16-QAM		7		21.39	0.102	1
		16-QAM	15	0		21.38	0.102	1
	20175 1732.5	QPSK	1	0	0	23.20	0.155	1
		QPSK		7		23.18	0.154	1
		QPSK		14		23.16	0.153	1
		QPSK	8	0	1	22.17	0.122	1
		QPSK		4		22.20	0.123	1
		QPSK		7		22.17	0.122	1
		QPSK	15	0		22.12	0.121	1
		16-QAM	1	0	1	21.97	0.117	1
		16-QAM		7		22.03	0.118	1
		16-QAM		14		22.00	0.117	1
		16-QAM	8	0	2	21.12	0.096	1
		16-QAM		4		21.13	0.096	1
		16-QAM		7		21.15	0.097	1
		16-QAM	15	0		21.12	0.096	1
	20385 1753.5	QPSK	1	0	0	23.05	0.150	1
		QPSK		7		23.07	0.150	1
		QPSK		14		23.03	0.149	1
		QPSK	8	0	1	21.98	0.117	1
		QPSK		4		22.05	0.119	1
		QPSK		7		22.02	0.118	1
		QPSK	15	0		21.97	0.117	1
		16-QAM	1	0	1	21.94	0.116	1
		16-QAM		7		21.96	0.116	1
		16-QAM		14		21.91	0.115	1
		16-QAM	8	0	2	21.09	0.095	1
		16-QAM		4		21.06	0.095	1
		16-QAM		7		21.04	0.094	1
		16-QAM	15	0		21.02	0.094	1

Note:
1. Measure Level (EIRP) = Reading Level (dBm) + Antenna Gain(dBi)
2. power (W)= $(10^{(power(dBm)/10)})*10^{-3}$

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (W) EIRP	Limit (W) EIRP
Band 4 5MHz	19975 1712.5	QPSK	1	0	0	23.11	0.152	1
		QPSK		12		23.25	0.157	1
		QPSK		24		23.15	0.153	1
		QPSK	12	0	1	22.23	0.124	1
		QPSK		6		22.22	0.124	1
		QPSK		11		22.24	0.124	1
		QPSK	25	0		22.25	0.124	1
		16-QAM	1	0	1	22.08	0.120	1
		16-QAM		12		22.20	0.123	1
		16-QAM		24		22.11	0.121	1
		16-QAM	12	0	2	21.28	0.100	1
		16-QAM		6		21.29	0.100	1
		16-QAM		11		21.23	0.098	1
		16-QAM	25	0		21.33	0.101	1
	20175 1732.5	QPSK	1	0	0	23.04	0.149	1
		QPSK		12		23.15	0.153	1
		QPSK		24		23.02	0.149	1
		QPSK	12	0	1	22.23	0.124	1
		QPSK		6		22.21	0.123	1
		QPSK		11		22.21	0.123	1
		QPSK	25	0		22.16	0.122	1
		16-QAM	1	0	1	22.45	0.130	1
		16-QAM		12		22.61	0.135	1
		16-QAM		24		22.43	0.130	1
		16-QAM	12	0	2	21.38	0.102	1
		16-QAM		6		21.39	0.102	1
		16-QAM		11		21.35	0.101	1
		16-QAM	25	0		21.18	0.097	1
	20375 1752.5	QPSK	1	0	0	22.85	0.143	1
		QPSK		12		22.98	0.147	1
		QPSK		24		22.87	0.144	1
		QPSK	12	0	1	22.01	0.118	1
		QPSK		6		22.00	0.117	1
		QPSK		11		22.02	0.118	1
		QPSK	25	0		22.00	0.117	1
		16-QAM	1	0	1	21.90	0.115	1
		16-QAM		12		22.05	0.119	1
		16-QAM		24		21.93	0.116	1
		16-QAM	12	0	2	20.99	0.093	1
		16-QAM		6		20.98	0.093	1
		16-QAM		11		20.92	0.092	1
		16-QAM	25	0		21.09	0.095	1

Note:
1. Measure Level (EIRP) = Reading Level (dBm) + Antenna Gain(dBi)
2. power (W)= $(10^{(power(dBm)/10)})*10^{-3}$

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (W) EIRP	Limit (W) EIRP
Band 4 10MHz	20000 1715	QPSK	1	0	0	23.15	0.153	1
		QPSK		24		23.36	0.161	1
		QPSK		49		23.17	0.154	1
		QPSK	25	0	1	22.33	0.127	1
		QPSK		12		22.35	0.127	1
		QPSK		24		22.35	0.127	1
		QPSK	50	0		22.31	0.126	1
		16-QAM	1	0	1	22.75	0.140	1
		16-QAM		24		22.82	0.142	1
		16-QAM		49		22.76	0.140	1
		16-QAM	25	0	2	21.47	0.104	1
		16-QAM		12		21.41	0.103	1
		16-QAM		24		21.42	0.103	1
		16-QAM	50	0		21.40	0.102	1
	20175 1732.5	QPSK	1	0	0	23.18	0.154	1
		QPSK		24		23.34	0.160	1
		QPSK		49		23.23	0.156	1
		QPSK	25	0	1	22.21	0.123	1
		QPSK		12		22.28	0.125	1
		QPSK		24		22.27	0.125	1
		QPSK	50	0		22.28	0.125	1
		16-QAM	1	0	1	22.06	0.119	1
		16-QAM		24		22.19	0.123	1
		16-QAM		49		21.99	0.117	1
		16-QAM	25	0	2	21.26	0.099	1
		16-QAM		12		21.28	0.100	1
		16-QAM		24		21.33	0.101	1
		16-QAM	50	0		21.32	0.100	1
	20350 1750	QPSK	1	0	0	23.06	0.150	1
		QPSK		24		23.20	0.155	1
		QPSK		49		23.03	0.149	1
		QPSK	25	0	1	22.18	0.122	1
		QPSK		12		22.19	0.123	1
		QPSK		24		22.03	0.118	1
		QPSK	50	0		22.11	0.121	1
		16-QAM	1	0	1	22.03	0.118	1
		16-QAM		24		22.18	0.122	1
		16-QAM		49		21.96	0.116	1
		16-QAM	25	0	2	21.33	0.101	1
		16-QAM		12		21.14	0.096	1
		16-QAM		24		21.19	0.097	1
		16-QAM	50	0		21.17	0.097	1

Note:
1. Measure Level (EIRP) = Reading Level (dBm) + Antenna Gain(dBi)
2. power (W)= $(10^{(power(dBm)/10)})*10^{-3}$

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (W) EIRP	Limit (W) EIRP
Band 4 15MHz	20025 1717.5	QPSK	1	0	0	23.05	0.150	1
		QPSK		37		23.16	0.153	1
		QPSK		74		23.08	0.151	1
		QPSK	36	0	1	22.34	0.127	1
		QPSK		19		22.36	0.128	1
		QPSK		38		22.41	0.129	1
		QPSK	75	0		22.38	0.128	1
		16-QAM	1	0	1	22.63	0.136	1
		16-QAM		37		22.77	0.140	1
		16-QAM		74		22.70	0.138	1
		16-QAM	36	0	2	21.29	0.100	1
		16-QAM		19		21.30	0.100	1
		16-QAM		38		21.33	0.101	1
		16-QAM	75	0		21.37	0.102	1
	20175 1732.5	QPSK	1	0	0	23.14	0.153	1
		QPSK		37		23.23	0.156	1
		QPSK		74		23.20	0.155	1
		QPSK	36	0	1	22.24	0.124	1
		QPSK		19		22.25	0.124	1
		QPSK		38		22.23	0.124	1
		QPSK	75	0		22.31	0.126	1
		16-QAM	1	0	1	21.99	0.117	1
		16-QAM		37		22.07	0.119	1
		16-QAM		74		21.96	0.116	1
		16-QAM	36	0	2	21.19	0.097	1
		16-QAM		19		21.26	0.099	1
		16-QAM		38		21.25	0.099	1
		16-QAM	75	0		21.28	0.100	1
	20325 1747.5	QPSK	1	0	0	22.94	0.146	1
		QPSK		37		23.08	0.151	1
		QPSK		74		22.92	0.145	1
		QPSK	36	0	1	22.25	0.124	1
		QPSK		19		22.16	0.122	1
		QPSK		38		22.14	0.121	1
		QPSK	75	0		22.17	0.122	1
		16-QAM	1	0	1	22.20	0.123	1
		16-QAM		37		22.26	0.125	1
		16-QAM		74		22.11	0.121	1
		16-QAM	36	0	2	21.19	0.097	1
		16-QAM		19		21.18	0.097	1
		16-QAM		38		21.08	0.095	1
		16-QAM	75	0		21.12	0.096	1

Note:
1. Measure Level (EIRP) = Reading Level (dBm) + Antenna Gain(dBi)
2. power (W)= $(10^{(power(dBm)/10)})*10^{-3}$

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (W) EIRP	Limit (W) EIRP
Band 4 20MHz	20050 1720	QPSK	1	0	0	23.09	0.151	1
		QPSK		49		23.42	0.163	1
		QPSK		99		23.05	0.150	1
		QPSK	50	0	1	22.27	0.125	1
		QPSK		25		22.23	0.124	1
		QPSK		49		22.27	0.125	1
		QPSK	100	0		22.29	0.126	1
		16-QAM	1	0	1	22.48	0.131	1
		16-QAM		49		22.86	0.143	1
		16-QAM		99		22.51	0.132	1
		16-QAM	50	0	2	21.29	0.100	1
		16-QAM		25		21.31	0.100	1
		16-QAM		49		21.26	0.099	1
		16-QAM	100	0		21.29	0.100	1
	20175 1732.5	QPSK	1	0	0	23.09	0.151	1
		QPSK		49		23.47	0.165	1
		QPSK		99		23.09	0.151	1
		QPSK	50	0	1	22.11	0.121	1
		QPSK		25		22.20	0.123	1
		QPSK		49		22.14	0.121	1
		QPSK	100	0		22.14	0.121	1
		16-QAM	1	0	1	22.05	0.119	1
		16-QAM		49		22.33	0.127	1
		16-QAM		99		21.96	0.116	1
		16-QAM	50	0	2	21.11	0.096	1
		16-QAM		25		21.17	0.097	1
		16-QAM		49		21.20	0.098	1
		16-QAM	100	0		21.18	0.097	1
	20300 1745	QPSK	1	0	0	22.88	0.144	1
		QPSK		49		23.29	0.158	1
		QPSK		99		22.80	0.141	1
		QPSK	50	0	1	22.08	0.120	1
		QPSK		25		22.09	0.120	1
		QPSK		49		21.94	0.116	1
		QPSK	100	0		22.03	0.118	1
		16-QAM	1	0	1	22.34	0.127	1
		16-QAM		49		22.45	0.130	1
		16-QAM		99		22.09	0.120	1
		16-QAM	50	0	2	21.10	0.095	1
		16-QAM		25		20.96	0.092	1
		16-QAM		49		20.95	0.092	1
		16-QAM	100	0		21.09	0.095	1

Note:
1. Measure Level (EIRP) = Reading Level (dBm) + Antenna Gain(dBi)
2. power (W)= $(10^{(power(dBm)/10)})*10^{-3}$

Product Name	WCDMA/LTE Mobile Phone		
Test Mode	Mode 3: LTE Band 5		
Date of Test	2021/06/04	Test Site	SR12-H
Temperature(°C)	23	Humidity (%RH)	68

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (W) ERP	Limit (W) ERP
Band 5 1.4MHz	20407 824.7	QPSK	1	0	0	23.36	0.044	7
		QPSK		2		23.49	0.045	7
		QPSK		5		23.44	0.045	7
		QPSK	3	0	0	23.51	0.045	7
		QPSK		1		23.48	0.045	7
		QPSK		2		23.50	0.045	7
		QPSK	6	0	1	22.45	0.035	7
		16-QAM	1	0	1	22.28	0.034	7
		16-QAM		2		22.42	0.035	7
		16-QAM		5		22.25	0.034	7
		16-QAM	3	0	1	22.50	0.036	7
		16-QAM		1		22.53	0.036	7
		16-QAM		2		22.50	0.036	7
		16-QAM	6	0	2	21.40	0.028	7
	20525 836.5	QPSK	1	0	0	23.37	0.044	7
		QPSK		2		23.49	0.045	7
		QPSK		5		23.38	0.044	7
		QPSK	3	0	0	23.57	0.046	7
		QPSK		1		23.53	0.045	7
		QPSK		2		23.44	0.045	7
		QPSK	6	0	1	22.47	0.036	7
		16-QAM	1	0	1	22.04	0.032	7
		16-QAM		2		22.23	0.034	7
		16-QAM		5		22.07	0.033	7
		16-QAM	3	0	1	22.75	0.038	7
		16-QAM		1		22.66	0.037	7
		16-QAM		2		22.76	0.038	7
		16-QAM	6	0	2	21.43	0.028	7
	20643 848.3	QPSK	1	0	0	23.50	0.045	7
		QPSK		2		23.57	0.046	7
		QPSK		5		23.47	0.045	7
		QPSK	3	0	0	23.56	0.046	7
		QPSK		1		23.54	0.046	7
		QPSK		2		23.57	0.046	7
		QPSK	6	0	1	22.53	0.036	7
		16-QAM	1	0	1	22.31	0.034	7
		16-QAM		2		22.52	0.036	7
		16-QAM		5		22.35	0.035	7
		16-QAM	3	0	1	22.56	0.036	7
		16-QAM		1		22.59	0.037	7
		16-QAM		2		22.57	0.036	7
		16-QAM	6	0	2	21.51	0.029	7

Note:

1. Measure Level (ERP) = Reading Level (dBm) + Antenna Gain(dBi) -2.15dB
2. power (W)= $(10^{(power(dBm)/10)})*10^{-3}$

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (W) EIRP	Limit (W) EIRP
Band 5 3MHz	20415 825.5	QPSK	1	0	0	23.30	0.043	7
		QPSK		7		23.30	0.043	7
		QPSK		14		23.29	0.043	7
		QPSK	8	0	1	22.45	0.035	7
		QPSK		4		22.42	0.035	7
		QPSK		7		22.44	0.035	7
		QPSK	15	0		22.42	0.035	7
		16-QAM	1	0	1	22.94	0.040	7
		16-QAM		7		22.88	0.039	7
		16-QAM		14		22.91	0.039	7
		16-QAM	8	0	2	21.58	0.029	7
		16-QAM		4		21.56	0.029	7
		16-QAM		7		21.54	0.029	7
		16-QAM	15	0		21.53	0.029	7
	20525 836.5	QPSK	1	0	0	23.49	0.045	7
		QPSK		7		23.45	0.045	7
		QPSK		14		23.50	0.045	7
		QPSK	8	0	1	22.49	0.036	7
		QPSK		4		22.49	0.036	7
		QPSK		7		22.51	0.036	7
		QPSK	15	0		22.52	0.036	7
		16-QAM	1	0	1	22.37	0.035	7
		16-QAM		7		22.37	0.035	7
		16-QAM		14		22.29	0.034	7
		16-QAM	8	0	2	21.49	0.028	7
		16-QAM		4		21.42	0.028	7
		16-QAM		7		21.44	0.028	7
		16-QAM	15	0		21.48	0.028	7
	20635 847.5	QPSK	1	0	0	23.49	0.045	7
		QPSK		7		23.52	0.045	7
		QPSK		14		23.50	0.045	7
		QPSK	8	0	1	22.56	0.036	7
		QPSK		4		22.54	0.036	7
		QPSK		7		22.51	0.036	7
		QPSK	15	0		22.51	0.036	7
		16-QAM	1	0	1	22.52	0.036	7
		16-QAM		7		22.47	0.036	7
		16-QAM		14		22.42	0.035	7
		16-QAM	8	0	2	21.59	0.029	7
		16-QAM		4		21.57	0.029	7
		16-QAM		7		21.54	0.029	7
		16-QAM	15	0		21.54	0.029	7

Note:
1. Measure Level (EIRP) = Reading Level (dBm) + Antenna Gain(dBi)
2. power (W)= $(10^{(power(dBm)/10)})*10^{-3}$

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (W) EIRP	Limit (W) EIRP
Band 5 5MHz	20425 826.5	QPSK	1	0	0	23.30	0.043	7
		QPSK		12		23.47	0.045	7
		QPSK		24		23.36	0.044	7
		QPSK	12	0	1	22.42	0.035	7
		QPSK		6		22.46	0.036	7
		QPSK		11		22.43	0.035	7
		QPSK	25	0		22.38	0.035	7
		16-QAM	1	0	1	22.31	0.034	7
		16-QAM		12		22.45	0.035	7
		16-QAM		24		22.33	0.035	7
		16-QAM	12	0	2	21.41	0.028	7
		16-QAM		6		21.40	0.028	7
		16-QAM		11		21.42	0.028	7
		16-QAM	25	0		21.48	0.028	7
	20525 836.5	QPSK	1	0	0	23.33	0.043	7
		QPSK		12		23.45	0.045	7
		QPSK		24		23.35	0.044	7
		QPSK	12	0	1	22.49	0.036	7
		QPSK		6		22.47	0.036	7
		QPSK		11		22.49	0.036	7
		QPSK	25	0		22.47	0.036	7
		16-QAM	1	0	1	22.80	0.038	7
		16-QAM		12		22.94	0.040	7
		16-QAM		24		22.76	0.038	7
		16-QAM	12	0	2	21.63	0.029	7
		16-QAM		6		21.62	0.029	7
		16-QAM		11		21.60	0.029	7
		16-QAM	25	0		21.47	0.028	7
	20625 846.5	QPSK	1	0	0	23.27	0.043	7
		QPSK		12		23.44	0.045	7
		QPSK		24		23.27	0.043	7
		QPSK	12	0	1	22.56	0.036	7
		QPSK		6		22.46	0.036	7
		QPSK		11		22.45	0.035	7
		QPSK	25	0		22.53	0.036	7
		16-QAM	1	0	1	22.40	0.035	7
		16-QAM		12		22.54	0.036	7
		16-QAM		24		22.44	0.035	7
		16-QAM	12	0	2	21.49	0.028	7
		16-QAM		6		21.45	0.028	7
		16-QAM		11		21.37	0.028	7
		16-QAM	25	0		21.57	0.029	7

Note:
1. Measure Level (EIRP) = Reading Level (dBm) + Antenna Gain(dBi)
2. power (W)= $(10^{(power(dBm)/10)})*10^{-3}$

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (W) EIRP	Limit (W) EIRP
Band 5 10MHz	20450 829	QPSK	1	0	0	23.28	0.043	7
		QPSK		24		23.54	0.046	7
		QPSK		49		23.33	0.043	7
		QPSK	25	0	1	22.45	0.035	7
		QPSK		12		22.48	0.036	7
		QPSK		24		22.53	0.036	7
		QPSK	50	0		22.50	0.036	7
		16-QAM	1	0	1	22.89	0.039	7
		16-QAM		24		23.14	0.042	7
		16-QAM		49		23.04	0.041	7
		16-QAM	25	0	2	21.55	0.029	7
		16-QAM		12		21.58	0.029	7
		16-QAM		24		21.56	0.029	7
		16-QAM	50	0		21.54	0.029	7
	20525 836.5	QPSK	1	0	0	23.47	0.045	7
		QPSK		24		23.67	0.047	7
		QPSK		49		23.48	0.045	7
		QPSK	25	0	1	22.49	0.036	7
		QPSK		12		22.53	0.036	7
		QPSK		24		22.52	0.036	7
		QPSK	50	0		22.53	0.036	7
		16-QAM	1	0	1	22.33	0.035	7
		16-QAM		24		22.54	0.036	7
		16-QAM		49		22.32	0.034	7
		16-QAM	25	0	2	21.56	0.029	7
		16-QAM		12		21.58	0.029	7
		16-QAM		24		21.56	0.029	7
		16-QAM	50	0		21.52	0.029	7
	20600 844	QPSK	1	0	0	23.40	0.044	7
		QPSK		24		23.63	0.047	7
		QPSK		49		23.50	0.045	7
		QPSK	25	0	1	22.55	0.036	7
		QPSK		12		22.58	0.037	7
		QPSK		24		22.49	0.036	7
		QPSK	50	0		22.57	0.036	7
		16-QAM	1	0	1	22.39	0.035	7
		16-QAM		24		22.57	0.036	7
		16-QAM		49		22.49	0.036	7
		16-QAM	25	0	2	21.69	0.030	7
		16-QAM		12		21.59	0.029	7
		16-QAM		24		21.55	0.029	7
		16-QAM	50	0		21.54	0.029	7

Note:
1. Measure Level (EIRP) = Reading Level (dBm) + Antenna Gain(dBi)
2. power (W)= $(10^{(power(dBm)/10)})*10^{-3}$

Product Name	WCDMA/LTE Mobile Phone		
Test Mode	Mode 4: LTE Band 12		
Date of Test	2021/06/04	Test Site	SR12-H
Temperature(°C)	23	Humidity (%RH)	68

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (W) ERP	Limit (W) ERP
Band 12 1.4MHz	23017 699.7	QPSK	1	0	0	22.67	0.063	3
		QPSK		2		22.69	0.064	3
		QPSK		5		22.71	0.064	3
		QPSK	3	0	0	22.74	0.064	3
		QPSK		1		22.77	0.065	3
		QPSK		2		22.75	0.065	3
		QPSK	6	0	1	21.72	0.051	3
		16-QAM	1	0	1	21.62	0.050	3
		16-QAM		2		21.88	0.053	3
		16-QAM		5		21.71	0.051	3
		16-QAM	3	0	1	21.88	0.053	3
		16-QAM		1		21.87	0.053	3
		16-QAM		2		22.01	0.054	3
		16-QAM	6	0	2	20.54	0.039	3
	23095 707.5	QPSK	1	0	0	22.58	0.062	3
		QPSK		2		22.77	0.065	3
		QPSK		5		22.61	0.063	3
		QPSK	3	0	0	22.75	0.065	3
		QPSK		1		22.75	0.065	3
		QPSK		2		22.71	0.064	3
		QPSK	6	0	1	21.70	0.051	3
		16-QAM	1	0	1	21.29	0.046	3
		16-QAM		2		21.45	0.048	3
		16-QAM		5		21.29	0.046	3
		16-QAM	3	0	1	21.93	0.053	3
		16-QAM		1		21.91	0.053	3
		16-QAM		2		21.92	0.053	3
		16-QAM	6	0	2	20.63	0.040	3
	23173 715.3	QPSK	1	0	0	22.66	0.063	3
		QPSK		2		22.85	0.066	3
		QPSK		5		22.72	0.064	3
		QPSK	3	0	0	22.80	0.065	3
		QPSK		1		22.75	0.065	3
		QPSK		2		22.78	0.065	3
		QPSK	6	0	1	21.72	0.051	3
		16-QAM	1	0	1	21.53	0.049	3
		16-QAM		2		21.71	0.051	3
		16-QAM		5		21.58	0.049	3
		16-QAM	3	0	1	21.78	0.052	3
		16-QAM		1		21.73	0.051	3
		16-QAM		2		21.80	0.052	3
		16-QAM	6	0	2	20.72	0.040	3

Note:
1. Measure Level (EIRP) = Reading Level (dBm) + Antenna Gain(dBi)
2. power (W)= $(10^{(power(dBm)/10)})*10^{-3}$

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (W) EIRP	Limit (W) EIRP
Band 12 3MHz	23025 700.5	QPSK	1	0	0	22.64	0.063	3
		QPSK		7		22.66	0.063	3
		QPSK		14		22.63	0.063	3
		QPSK	8	0	1	21.74	0.051	3
		QPSK		4		21.77	0.052	3
		QPSK		7		21.76	0.051	3
		QPSK	15	0		21.80	0.052	3
		16-QAM	1	0	1	22.24	0.057	3
		16-QAM		7		22.28	0.058	3
		16-QAM		14		22.23	0.057	3
		16-QAM	8	0	2	20.84	0.042	3
		16-QAM		4		20.86	0.042	3
		16-QAM		7		20.88	0.042	3
		16-QAM	15	0		20.90	0.042	3
	23095 707.5	QPSK	1	0	0	22.77	0.065	3
		QPSK		7		22.74	0.064	3
		QPSK		14		22.70	0.064	3
		QPSK	8	0	1	21.71	0.051	3
		QPSK		4		21.74	0.051	3
		QPSK		7		21.73	0.051	3
		QPSK	15	0		21.73	0.051	3
		16-QAM	1	0	1	21.58	0.049	3
		16-QAM		7		21.63	0.050	3
		16-QAM		14		21.50	0.048	3
		16-QAM	8	0	2	20.70	0.040	3
		16-QAM		4		20.69	0.040	3
		16-QAM		7		20.72	0.040	3
		16-QAM	15	0		20.65	0.040	3
	23165 714.5	QPSK	1	0	0	22.73	0.064	3
		QPSK		7		22.75	0.065	3
		QPSK		14		21.74	0.051	3
		QPSK	8	0	1	21.73	0.051	3
		QPSK		4		21.75	0.051	3
		QPSK		7		21.74	0.051	3
		QPSK	15	0		21.70	0.051	3
		16-QAM	1	0	1	21.62	0.050	3
		16-QAM		7		21.70	0.051	3
		16-QAM		14		21.62	0.050	3
		16-QAM	8	0	2	20.77	0.041	3
		16-QAM		4		20.73	0.041	3
		16-QAM		7		21.62	0.050	3
		16-QAM	15	0		20.70	0.040	3

Note:
1. Measure Level (EIRP) = Reading Level (dBm) + Antenna Gain(dBi)
2. power (W)= $(10^{(power(dBm)/10)})*10^{-3}$

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (W) EIRP	Limit (W) EIRP
Band 12 5MHz	23035 701.5	QPSK	1	0	0	22.61	0.063	3
		QPSK		12		22.77	0.065	3
		QPSK		24		22.58	0.062	3
		QPSK	12	0	1	21.78	0.052	3
		QPSK		6		21.74	0.051	3
		QPSK		11		21.71	0.051	3
		QPSK	25	0		21.78	0.052	3
		16-QAM	1	0	1	21.56	0.049	3
		16-QAM		12		21.73	0.051	3
		16-QAM		24		21.59	0.049	3
		16-QAM	12	0	2	20.72	0.040	3
		16-QAM		6		20.75	0.041	3
		16-QAM		11		20.74	0.041	3
		16-QAM	25	0		20.76	0.041	3
	23095 707.5	QPSK	1	0	0	22.60	0.062	3
		QPSK		12		22.73	0.064	3
		QPSK		24		22.57	0.062	3
		QPSK	12	0	1	21.72	0.051	3
		QPSK		6		21.71	0.051	3
		QPSK		11		21.78	0.052	3
		QPSK	25	0		21.70	0.051	3
		16-QAM	1	0	1	22.02	0.055	3
		16-QAM		12		22.17	0.056	3
		16-QAM		24		21.98	0.054	3
		16-QAM	12	0	2	20.85	0.042	3
		16-QAM		6		20.83	0.041	3
		16-QAM		11		20.86	0.042	3
		16-QAM	25	0		20.74	0.041	3
	23155 713.5	QPSK	1	0	0	22.53	0.061	3
		QPSK		12		22.70	0.064	3
		QPSK		24		22.61	0.063	3
		QPSK	12	0	1	21.69	0.051	3
		QPSK		6		21.64	0.050	3
		QPSK		11		21.65	0.050	3
		QPSK	25	0		21.66	0.050	3
		16-QAM	1	0	1	21.57	0.049	3
		16-QAM		12		21.75	0.051	3
		16-QAM		24		21.63	0.050	3
		16-QAM	12	0	2	20.59	0.039	3
		16-QAM		6		20.61	0.039	3
		16-QAM		11		20.59	0.039	3
		16-QAM	25	0		20.69	0.040	3

Note:
1. Measure Level (EIRP) = Reading Level (dBm) + Antenna Gain(dBi)
2. power (W)= $(10^{(power(dBm)/10)})*10^{-3}$

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (W) EIRP	Limit (W) EIRP
Band 12 10MHz	23060 704	QPSK	1	0	0	22.58	0.062	3
		QPSK		24		22.80	0.065	3
		QPSK		49		22.58	0.062	3
		QPSK	25	0	1	21.79	0.052	3
		QPSK		12		21.77	0.052	3
		QPSK		24		21.85	0.052	3
		QPSK	50	0		21.79	0.052	3
		16-QAM	1	0	1	22.17	0.056	3
		16-QAM		24		22.45	0.060	3
		16-QAM		49		22.23	0.057	3
		16-QAM	25	0	2	20.81	0.041	3
		16-QAM		12		20.87	0.042	3
		16-QAM		24		20.86	0.042	3
		16-QAM	50	0		20.81	0.041	3
	23095 707.5	QPSK	1	0	0	22.69	0.064	3
		QPSK		24		23.00	0.068	3
		QPSK		49		22.78	0.065	3
		QPSK	25	0	1	21.77	0.052	3
		QPSK		12		21.84	0.052	3
		QPSK		24		21.86	0.053	3
		QPSK	50	0		21.84	0.052	3
		16-QAM	1	0	1	21.52	0.049	3
		16-QAM		24		21.76	0.051	3
		16-QAM		49		21.55	0.049	3
		16-QAM	25	0	2	20.80	0.041	3
		16-QAM		12		20.81	0.041	3
		16-QAM		24		20.85	0.042	3
		16-QAM	50	0		20.82	0.041	3
	23130 711	QPSK	1	0	0	22.72	0.064	3
		QPSK		24		22.91	0.067	3
		QPSK		49		22.74	0.064	3
		QPSK	25	0	1	21.66	0.050	3
		QPSK		12		21.71	0.051	3
		QPSK		24		21.73	0.051	3
		QPSK	50	0		21.72	0.051	3
		16-QAM	1	0	1	21.68	0.050	3
		16-QAM		24		21.87	0.053	3
		16-QAM		49		21.66	0.050	3
		16-QAM	25	0	2	20.77	0.041	3
		16-QAM		12		20.80	0.041	3
		16-QAM		24		20.88	0.042	3
		16-QAM	50	0		20.76	0.041	3

Note:
1. Measure Level (EIRP) = Reading Level (dBm) + Antenna Gain(dBi)
2. power (W)= $(10^{(power(dBm)/10)})*10^{-3}$

Product Name	WCDMA/LTE Mobile Phone		
Test Mode	Mode 5: LTE Band 14		
Date of Test	2021/06/04	Test Site	SR12-H
Temperature(°C)	23	Humidity (%RH)	68

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (W) ERP	Limit (W) ERP
Band 14 5MHz	23305 790.5	QPSK	1	0	0	22.54	0.041	3
		QPSK		12		22.74	0.043	3
		QPSK		24		22.64	0.042	3
		QPSK	12	0	1	21.78	0.034	3
		QPSK		6		21.78	0.034	3
		QPSK		11		21.79	0.034	3
		QPSK	25	0		21.74	0.034	3
		16-QAM	1	0	1	21.54	0.032	3
		16-QAM		12		21.75	0.034	3
		16-QAM		24		21.62	0.033	3
		16-QAM	12	0	2	20.74	0.027	3
		16-QAM		6		20.81	0.027	3
		16-QAM		11		20.78	0.027	3
		16-QAM	25	0		20.84	0.027	3
	23330 793	QPSK	1	0	0	22.59	0.041	3
		QPSK		12		22.69	0.042	3
		QPSK		24		22.53	0.041	3
		QPSK	12	0	1	21.62	0.033	3
		QPSK		6		21.66	0.033	3
		QPSK		11		21.80	0.034	3
		QPSK	25	0		21.70	0.033	3
		16-QAM	1	0	1	22.01	0.036	3
		16-QAM		12		22.14	0.037	3
		16-QAM		24		22.01	0.036	3
		16-QAM	12	0	2	20.79	0.027	3
		16-QAM		6		20.77	0.027	3
		16-QAM		11		20.89	0.028	3
		16-QAM	25	0		20.70	0.027	3
	23355 795.5	QPSK	1	0	0	22.52	0.040	3
		QPSK		12		22.61	0.041	3
		QPSK		24		22.49	0.040	3
		QPSK	12	0	1	21.68	0.033	3
		QPSK		6		21.57	0.033	3
		QPSK		11		21.59	0.033	3
		QPSK	25	0		21.61	0.033	3
		16-QAM	1	0	1	21.63	0.033	3
		16-QAM		12		21.69	0.033	3
		16-QAM		24		21.61	0.033	3
		16-QAM	12	0	2	20.56	0.026	3
		16-QAM		6		20.54	0.026	3
		16-QAM		11		20.57	0.026	3
		16-QAM	25	0		20.68	0.026	3

Note:
1. Measure Level (ERP) = Reading Level (dBm) + Antenna Gain(dBi) -2.15dB
2. power (W)= $(10^{(power(dBm)/10)})*10^{-3}$

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (W) ERP	Limit (W) ERP
Band 14 10MHz	23330 793	QPSK	1	0	0	22.60	0.041	3
		QPSK		24		22.76	0.043	3
		QPSK		49		22.57	0.041	3
		QPSK	25	0	1	21.77	0.034	3
		QPSK		12		21.76	0.034	3
		QPSK		24		21.68	0.033	3
		QPSK	50	0		21.73	0.034	3
		16-QAM	1	0	1	22.20	0.038	3
		16-QAM		24		22.40	0.039	3
		16-QAM		49		22.17	0.037	3
		16-QAM	25	0	2	20.79	0.027	3
		16-QAM		12		20.77	0.027	3
		16-QAM		24		20.80	0.027	3
		16-QAM	50	0		20.78	0.027	3

Note:
1. Measure Level (ERP) = Reading Level (dBm) + Antenna Gain(dBi) -2.15dB
2. power (W)= $(10^{(power(dBm)/10)})*10^{-3}$

Product Name	WCDMA/LTE Mobile Phone		
Test Mode	Mode 6: LTE Band 30		
Date of Test	2021/06/04	Test Site	SR12-H
Temperature(°C)	23	Humidity (%RH)	68

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (W) EIRP	Limit (W) EIRP
Band 30 5MHz	27685 2307.5	QPSK	1	0	0	22.87	0.198	0.25
		QPSK		12		23.00	0.204	0.25
		QPSK		24		22.89	0.199	0.25
		QPSK	12	0	1	22.08	0.165	0.25
		QPSK		6		22.04	0.164	0.25
		QPSK		11		22.09	0.166	0.25
		QPSK	25	0		22.06	0.164	0.25
		16-QAM	1	0	1	21.94	0.160	0.25
		16-QAM		12		22.08	0.165	0.25
		16-QAM		24		21.99	0.162	0.25
		16-QAM	12	0	2	20.93	0.127	0.25
		16-QAM		6		20.96	0.128	0.25
		16-QAM		11		20.94	0.127	0.25
		16-QAM	25	0		21.05	0.130	0.25
	27710 2310	QPSK	1	0	0	22.91	0.200	0.25
		QPSK		12		22.66	0.189	0.25
		QPSK		24		22.94	0.201	0.25
		QPSK	12	0	1	22.18	0.169	0.25
		QPSK		6		22.17	0.169	0.25
		QPSK		11		22.07	0.165	0.25
		QPSK	25	0		22.10	0.166	0.25
		16-QAM	1	0	1	21.88	0.158	0.25
		16-QAM		12		22.09	0.166	0.25
		16-QAM		24		21.91	0.159	0.25
		16-QAM	12	0	2	21.10	0.132	0.25
		16-QAM		6		21.05	0.130	0.25
		16-QAM		11		21.02	0.129	0.25
		16-QAM	25	0		21.15	0.133	0.25
	27735 2312.5	QPSK	1	0	0	22.44	0.179	0.25
		QPSK		12		22.59	0.186	0.25
		QPSK		24		22.49	0.182	0.25
		QPSK	12	0	1	21.61	0.148	0.25
		QPSK		6		21.54	0.146	0.25
		QPSK		11		21.56	0.147	0.25
		QPSK	25	0		21.56	0.147	0.25
		16-QAM	1	0	1	21.88	0.158	0.25
		16-QAM		12		22.04	0.164	0.25
		16-QAM		24		21.93	0.160	0.25
		16-QAM	12	0	2	20.74	0.121	0.25
		16-QAM		6		20.77	0.122	0.25
		16-QAM		11		20.74	0.121	0.25
		16-QAM	25	0		20.58	0.117	0.25

Note:
1. Measure Level (EIRP) = Reading Level (dBm) + Antenna Gain(dBi)
2. power (W)= $(10^{(power(dBm)/10)})*10^{-3}$

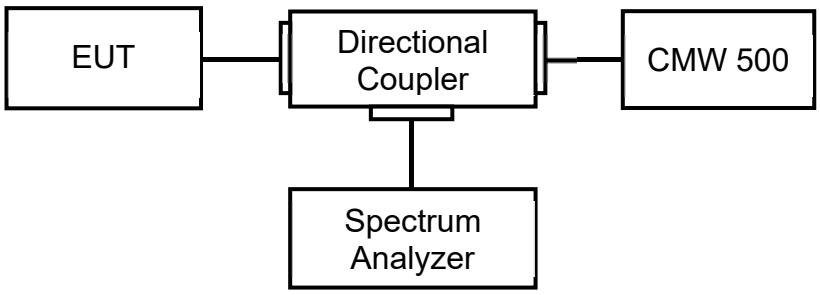
Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (W) EIRP	Limit (W) EIRP
Band 30 10MHz	27710 2310	QPSK	1	0	0	22.52	0.183	0.25
		QPSK		24		23.08	0.208	0.25
		QPSK		49		22.51	0.182	0.25
		QPSK	25	0	1	22.14	0.167	0.25
		QPSK		12		22.22	0.171	0.25
		QPSK		24		21.90	0.158	0.25
		QPSK	50	0		22.16	0.168	0.25
		16-QAM	1	0	1	22.14	0.167	0.25
		16-QAM		24		22.46	0.180	0.25
		16-QAM		49		22.32	0.175	0.25
		16-QAM	25	0	2	21.15	0.133	0.25
		16-QAM		12		20.98	0.128	0.25
		16-QAM		24		20.67	0.119	0.25
		16-QAM	50	0		21.10	0.132	0.25

Note:

1. Measure Level (EIRP) = Reading Level (dBm) + Antenna Gain(dBi)
2. power (W)= $(10^{(power(dBm)/10)})*10^{-3}$

4. Occupied Bandwidth

4.1. Test Setup



4.2. Test Procedure

1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. The 26 dB bandwidth and 99% occupied bandwidth of the low & middle & high channel for the highest RF powers were measured.

4.3. Test Method

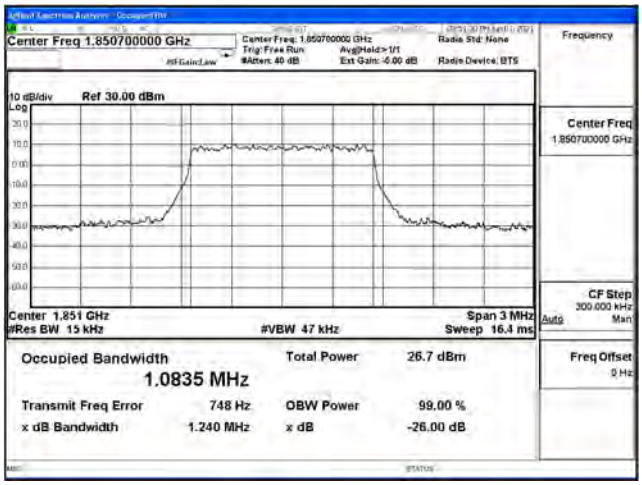
KDB 971168 D01 Power Meas License Digital Systems v03 sub-clause 4.2 & 4.3
ANSI C63.26: 2015 Sub-clause 5.4.3 & 5.4.4

4.4. Test Result

Product Name	WCDMA/LTE Mobile Phone		
Test Mode	Mode 1: LTE Band 2		
Date of Test	2021/06/01	Test Site	SR10-H
Temperature(°C)	26	Humidity (%RH)	60

LTE Band2_Full RB					
Bandwidth (MHz)	Modulation	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
			26dB BW	99% BW	
1.4M	QPSK	1850.7	1.240	1.083	N/A
		1880	1.238	1.076	N/A
		1909.3	1.250	1.077	N/A
	16-QAM	1850.7	1.236	1.077	N/A
		1880	1.264	1.079	N/A
		1909.3	1.211	1.074	N/A
3M	QPSK	1851.5	2.844	2.677	N/A
		1880	2.850	2.683	N/A
		1908.5	2.853	2.674	N/A
	16-QAM	1851.5	2.856	2.674	N/A
		1880	2.851	2.677	N/A
		1908.5	2.856	2.671	N/A
5M	QPSK	1852.5	4.833	4.477	N/A
		1880	4.788	4.481	N/A
		1907.5	4.800	4.451	N/A
	16-QAM	1852.5	4.779	4.462	N/A
		1880	4.814	4.468	N/A
		1907.5	4.831	4.455	N/A
10M	QPSK	1855	9.577	8.944	N/A
		1880	9.646	8.932	N/A
		1905	9.551	8.939	N/A
	16-QAM	1855	9.549	8.937	N/A
		1880	9.558	8.948	N/A
		1905	9.479	8.937	N/A
15M	QPSK	1857.5	14.410	13.407	N/A
		1880	14.310	13.414	N/A
		1902.5	14.370	13.437	N/A
	16-QAM	1857.5	14.230	13.380	N/A
		1880	14.160	13.421	N/A
		1902.5	14.140	13.453	N/A
20M	QPSK	1860	18.870	17.817	N/A
		1880	18.930	17.863	N/A
		1900	19.310	17.962	N/A
	16-QAM	1860	18.720	17.860	N/A
		1880	18.990	17.905	N/A
		1900	19.050	17.898	N/A

LTE_B2_CH18607_1.4M__QPSK_6RB0



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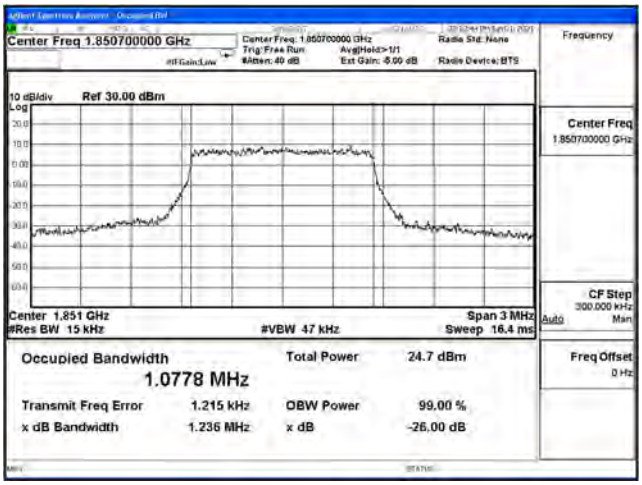

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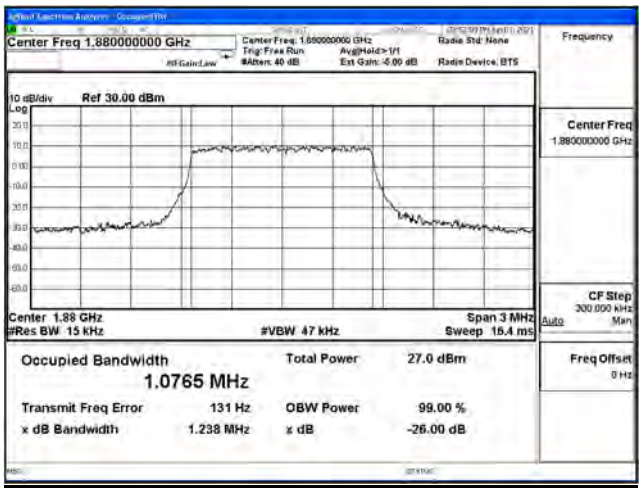

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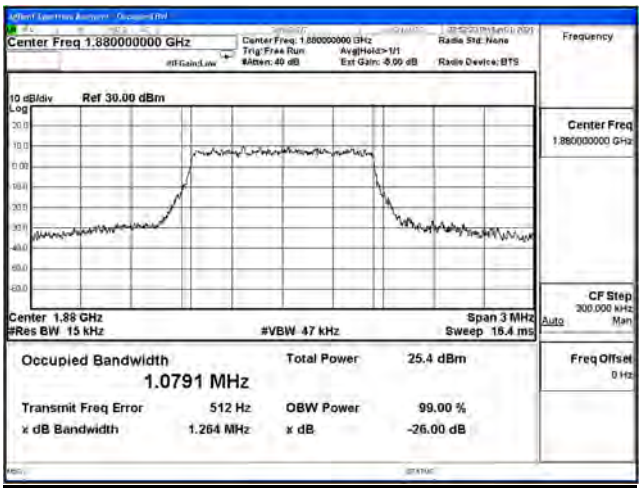

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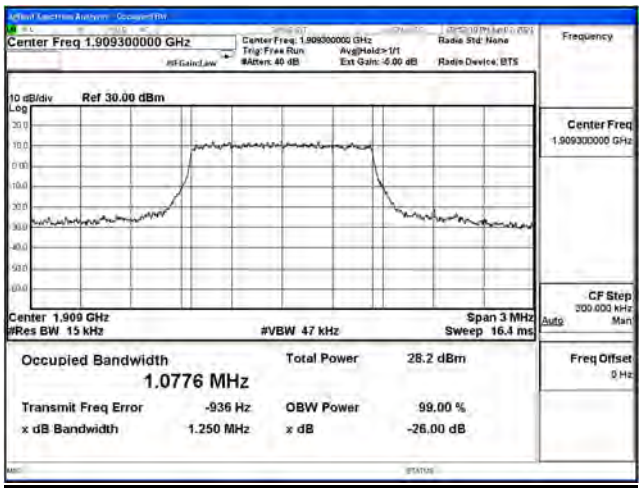

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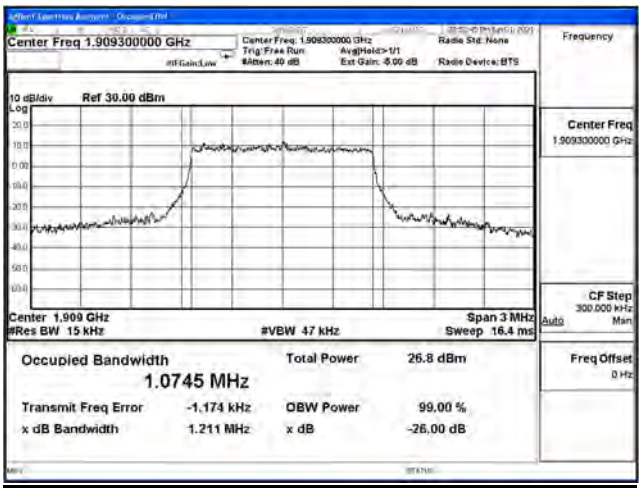

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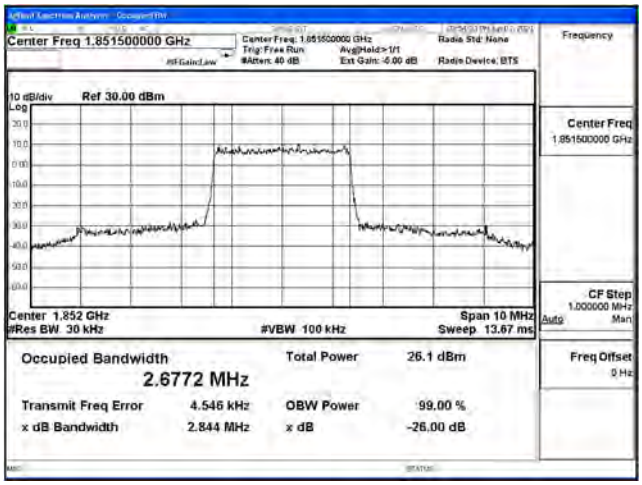

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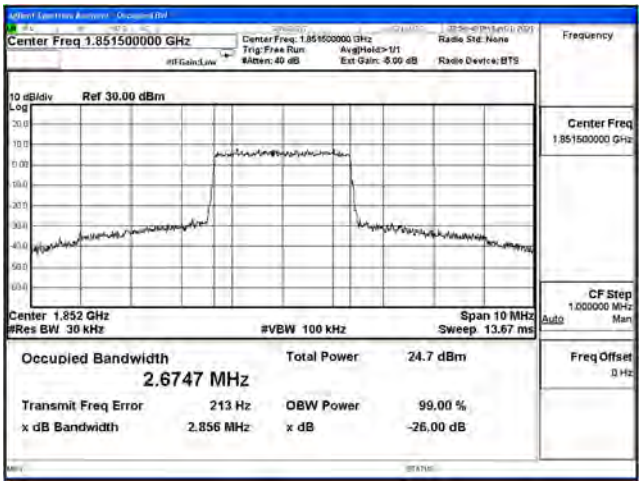

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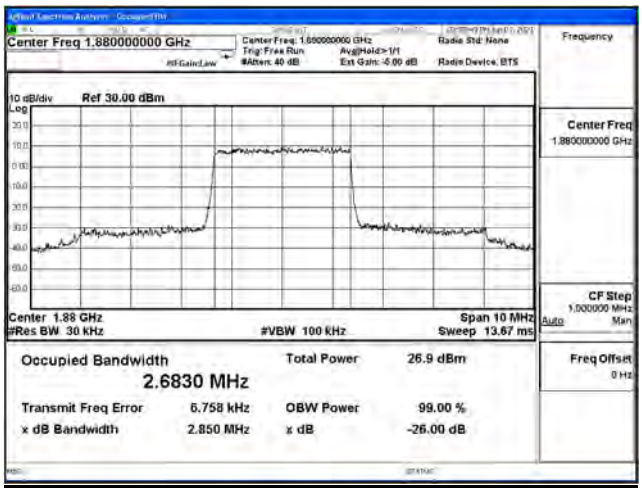

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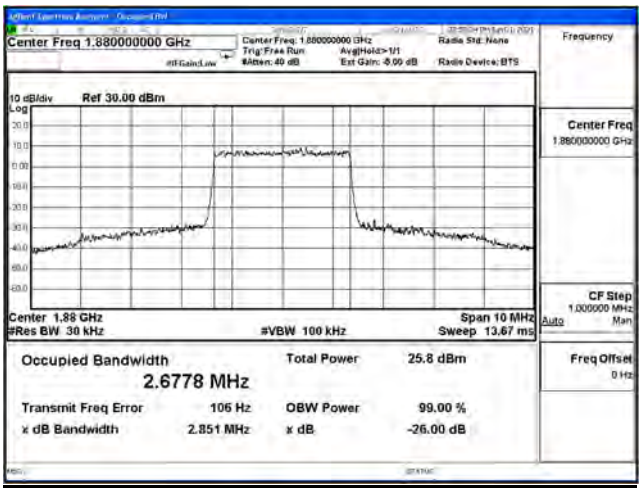

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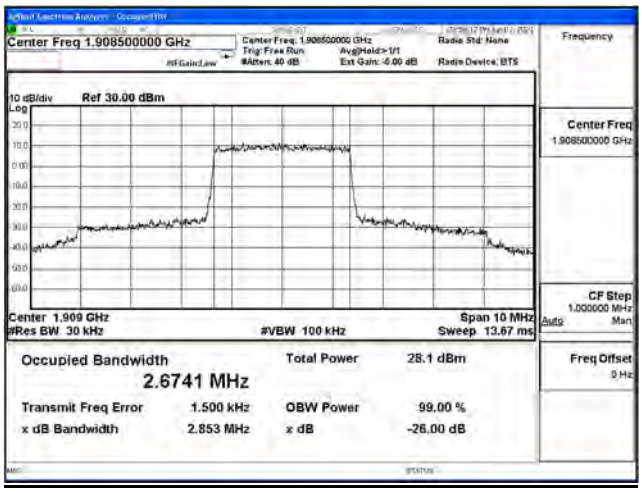

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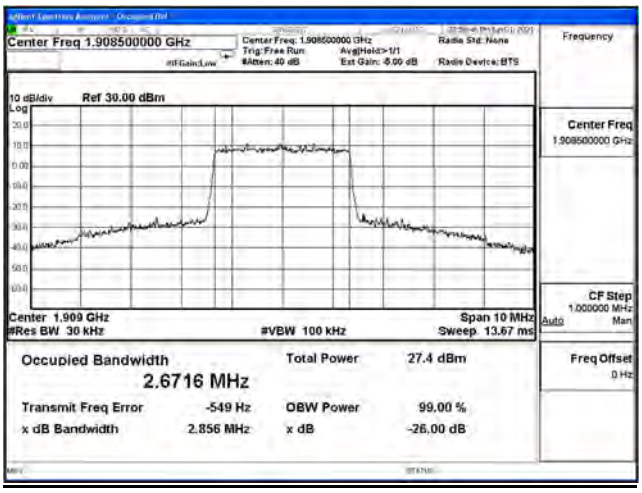

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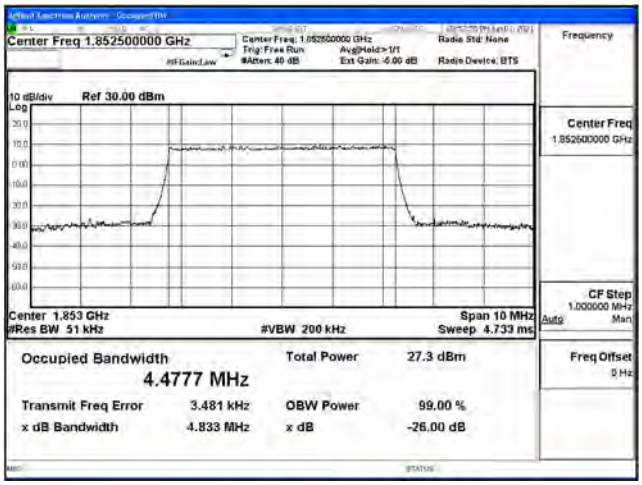

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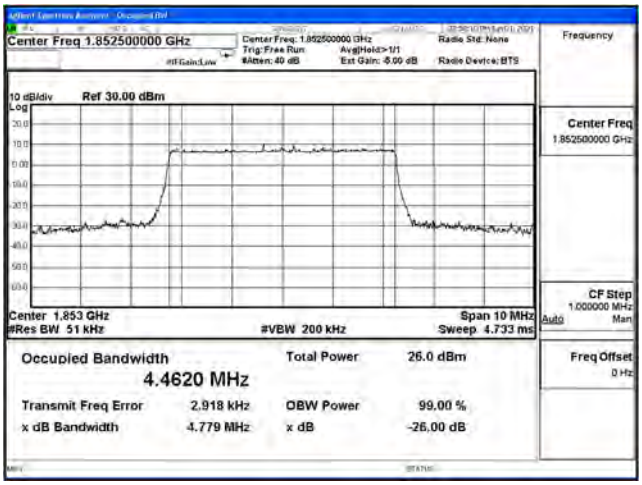

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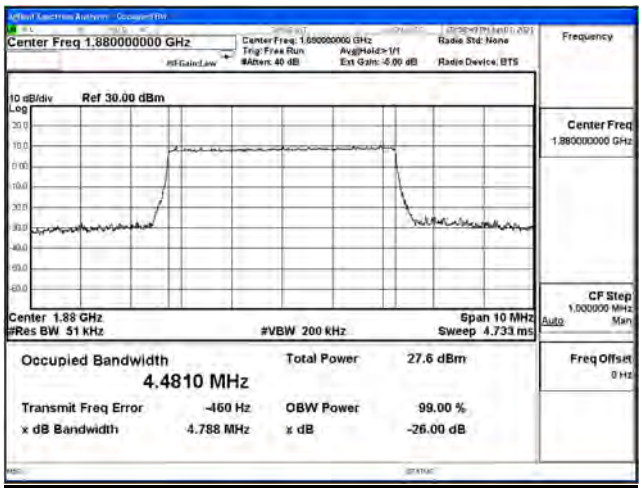

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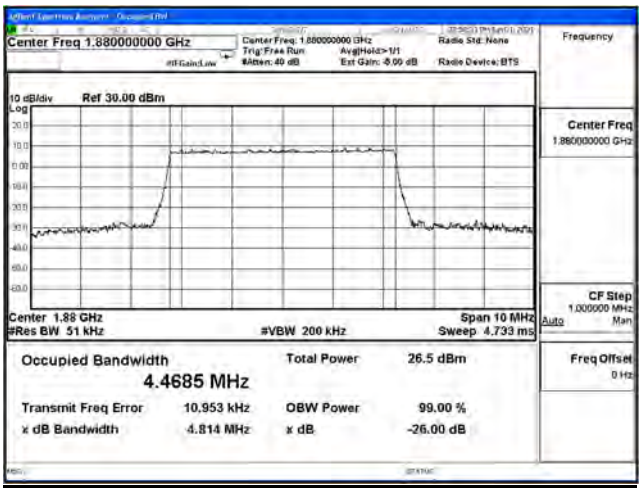

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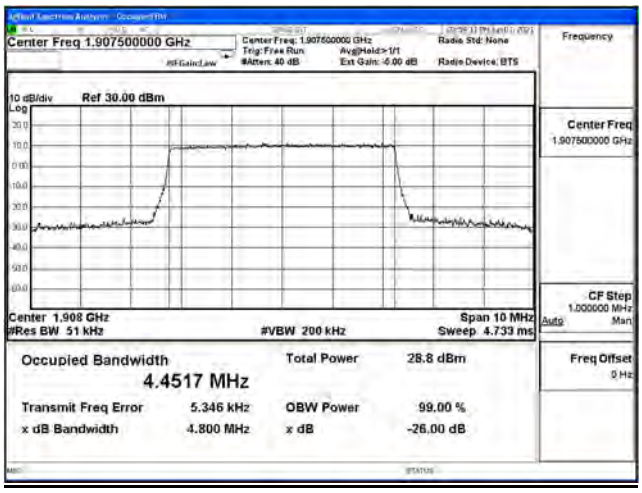

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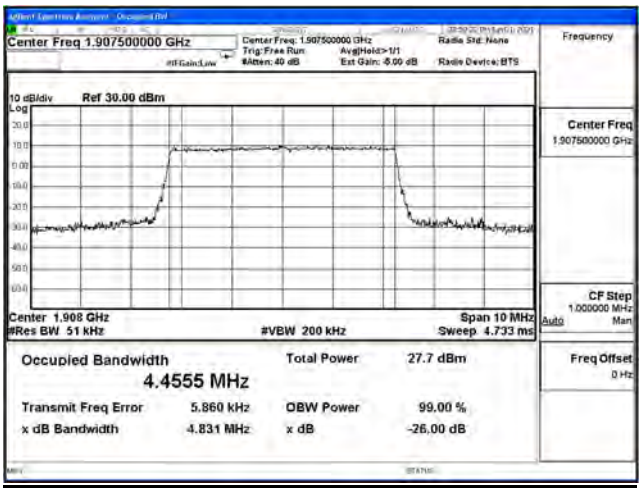

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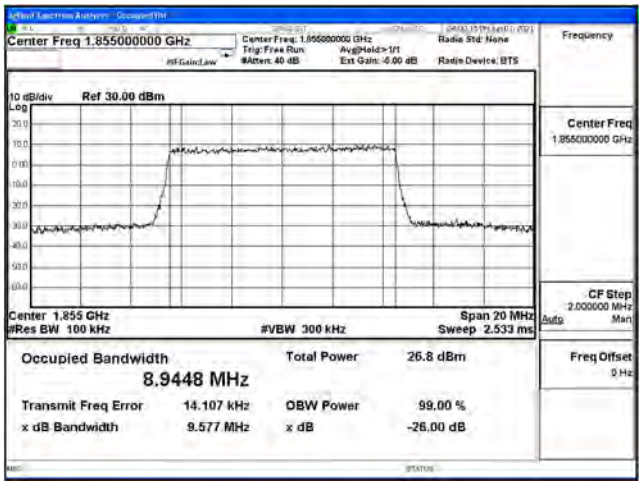

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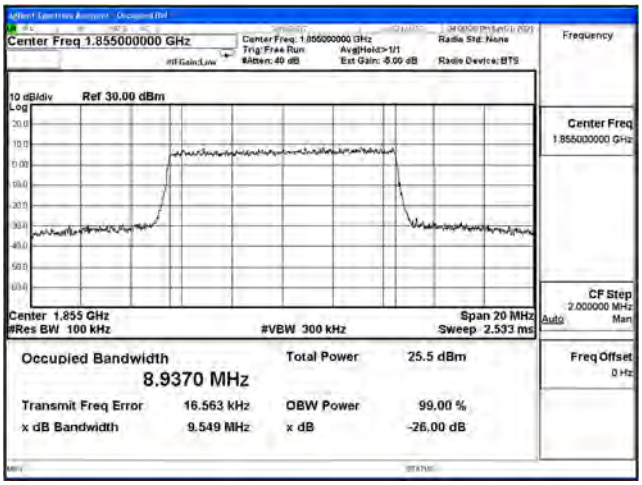

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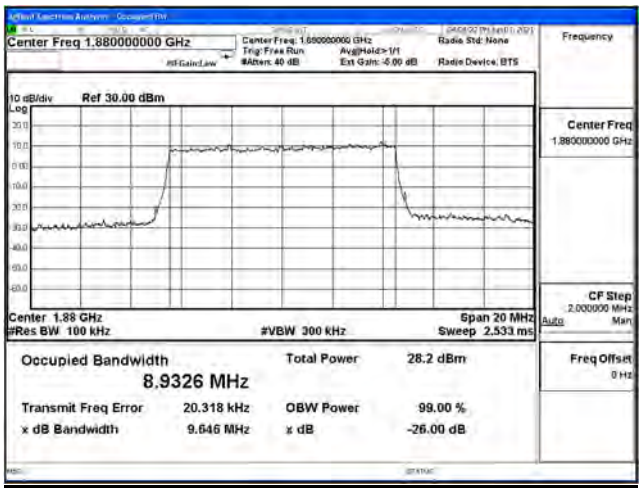

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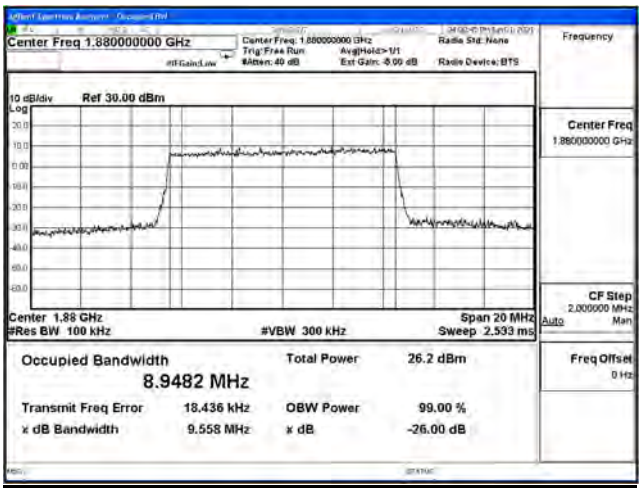

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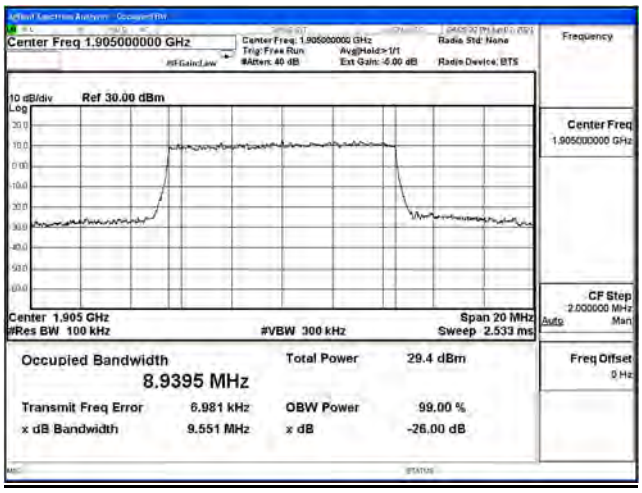

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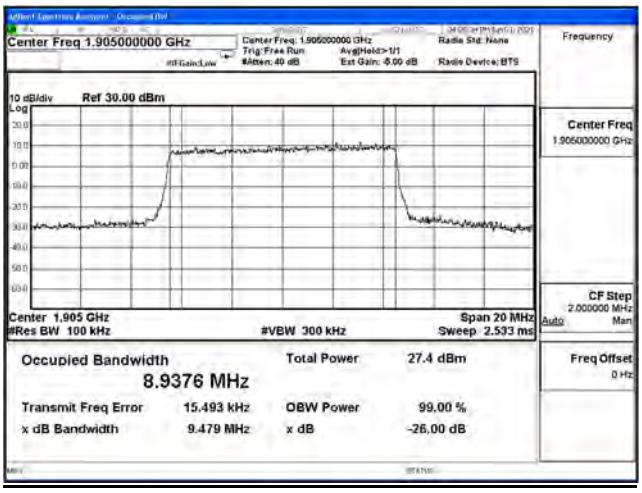

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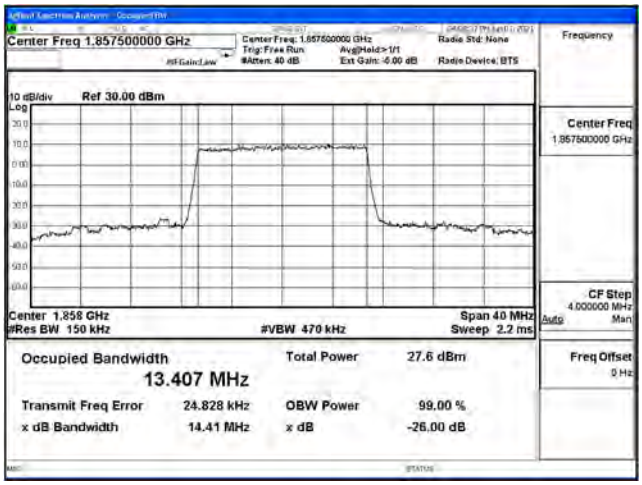

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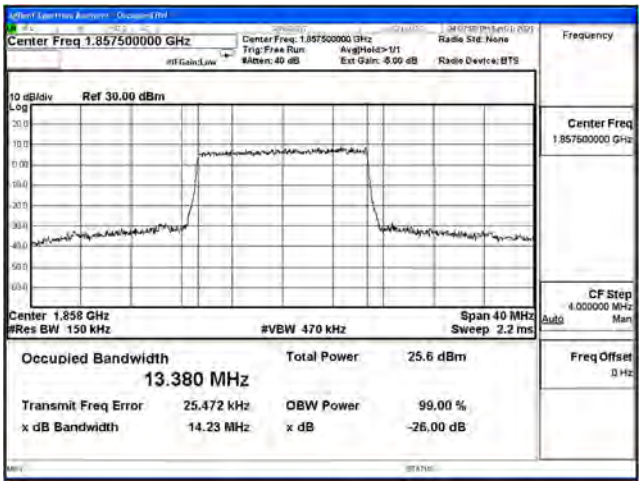

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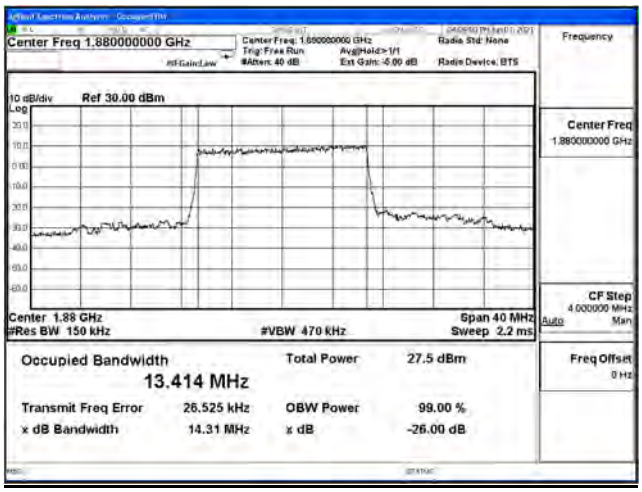

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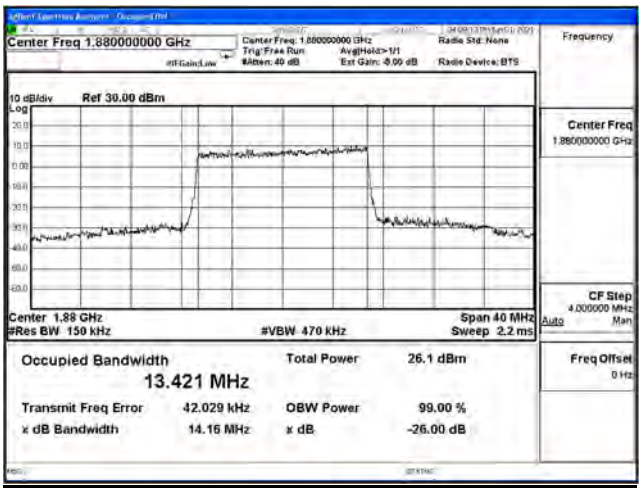

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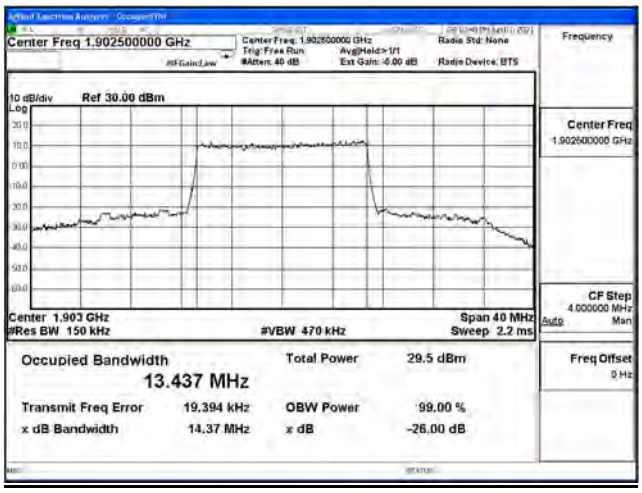

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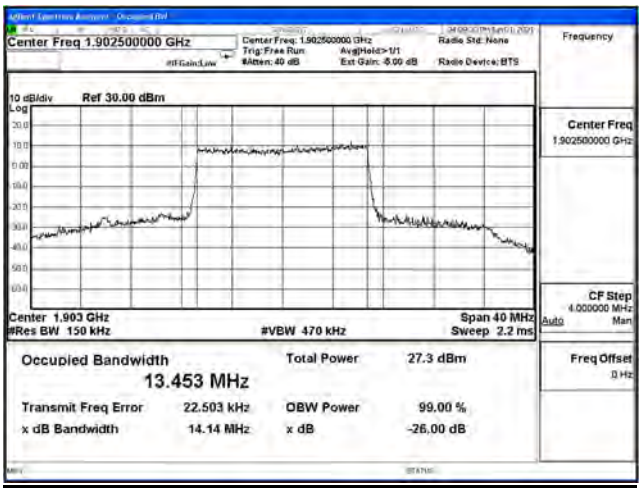

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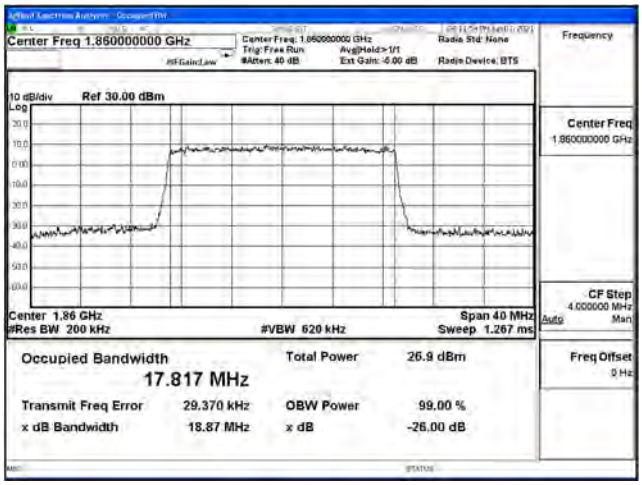

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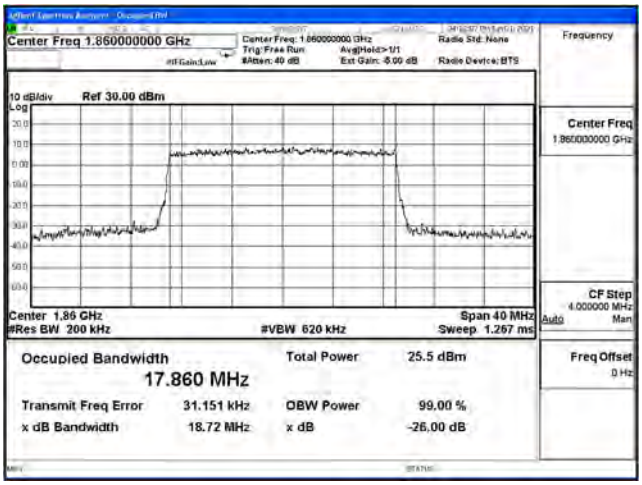

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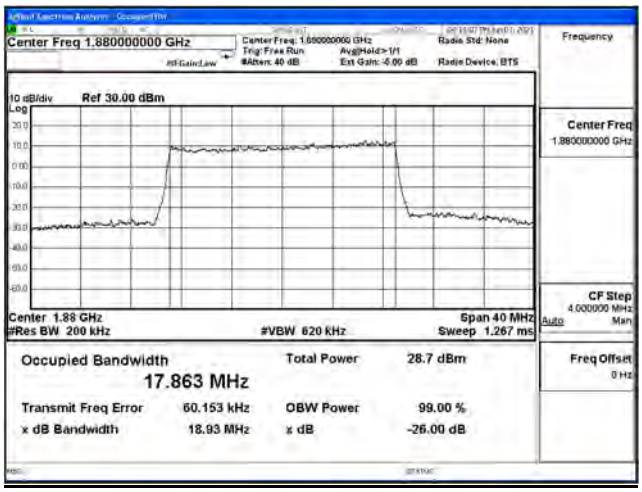

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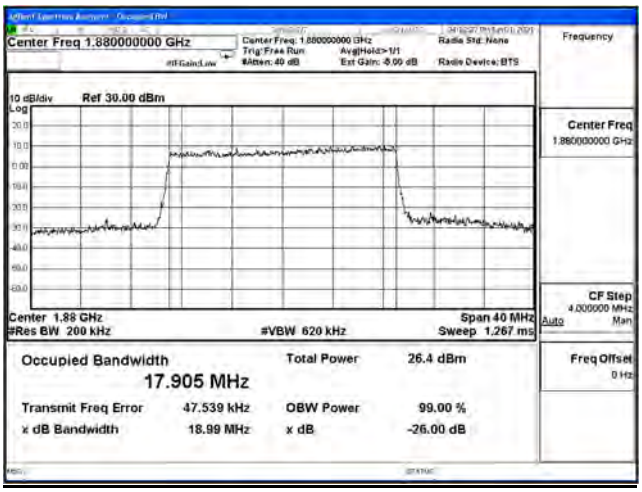

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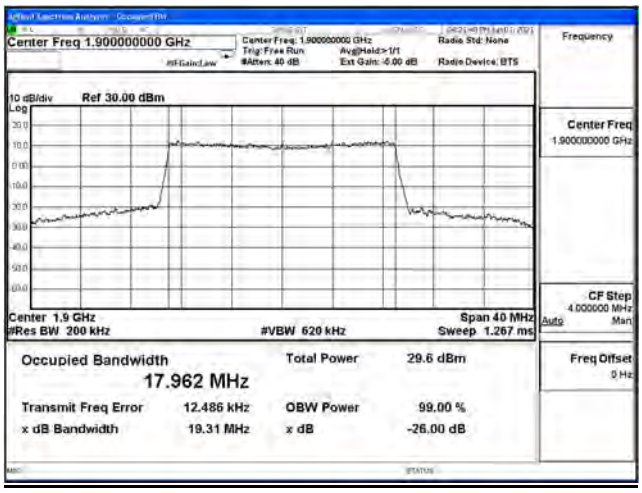

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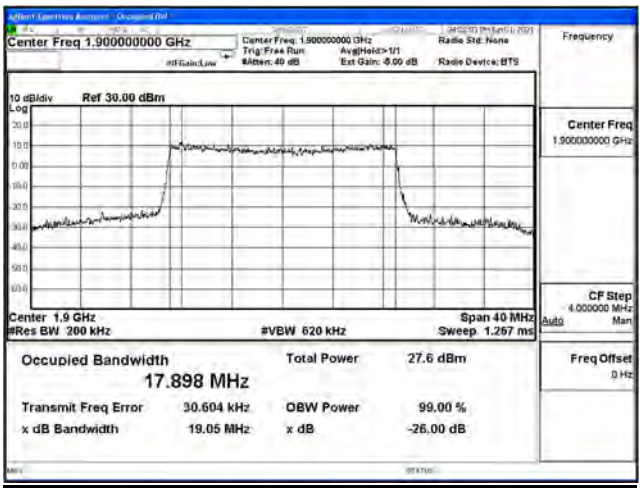

Product Name	WCDMA/LTE Mobile Phone		
Test Mode	Mode 2: LTE Band 4		
Date of Test	2021/06/01	Test Site	SR10-H
Temperature(°C)	26	Humidity (%RH)	60

LTE Band4_Full RB					
Bandwidth (MHz)	Modulation	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
			26dB BW	99% BW	
1.4M	QPSK	1710.7	1.247	1.083	N/A
		1732.5	1.233	1.077	N/A
		1754.3	1.242	1.076	N/A
	16-QAM	1710.7	1.236	1.078	N/A
		1732.5	1.269	1.078	N/A
		1754.3	1.209	1.073	N/A
3M	QPSK	1711.5	2.856	2.683	N/A
		1732.5	2.862	2.675	N/A
		1753.5	2.868	2.677	N/A
	16-QAM	1711.5	2.852	2.677	N/A
		1732.5	2.850	2.673	N/A
		1753.5	2.858	2.672	N/A
5M	QPSK	1712.5	4.829	4.474	N/A
		1732.5	4.824	4.610	N/A
		1752.2	4.829	4.480	N/A
	16-QAM	1712.5	4.824	4.465	N/A
		1732.5	4.841	4.465	N/A
		1752.2	4.769	4.462	N/A
10M	QPSK	1715	9.493	8.940	N/A
		1732.5	9.542	8.940	N/A
		1750	9.620	8.950	N/A
	16-QAM	1715	9.482	8.944	N/A
		1732.5	9.546	8.941	N/A
		1750	9.563	8.939	N/A
15M	QPSK	1717.5	14.290	13.396	N/A
		1732.5	14.320	13.407	N/A
		1747.5	14.300	13.427	N/A
	16-QAM	1717.5	14.300	13.421	N/A
		1732.5	14.250	13.413	N/A
		1747.5	14.260	13.409	N/A
20M	QPSK	1720	18.870	17.881	N/A
		1732.5	18.950	17.835	N/A
		1745	19.160	17.901	N/A
	16-QAM	1720	19.020	17.910	N/A
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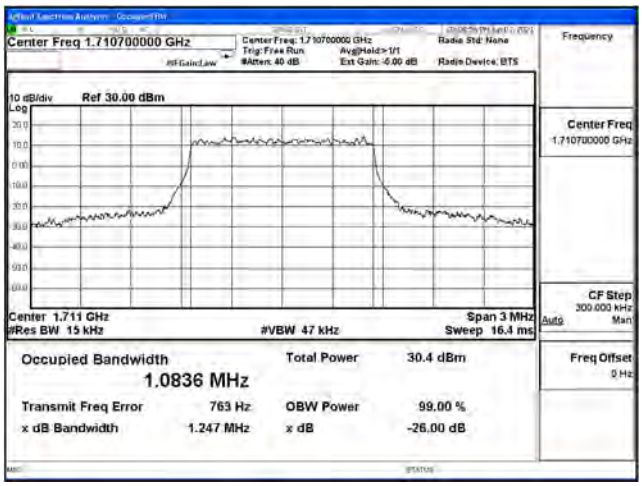
		1745	18.870	17.847	N/A

B4_CH19957_1.4M__QPSK_6RB0



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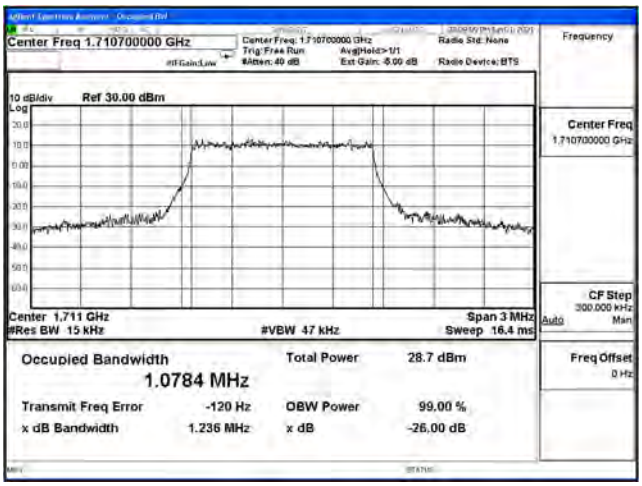

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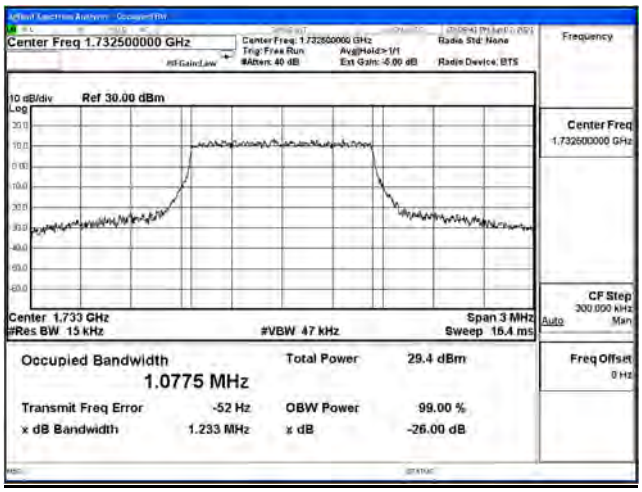

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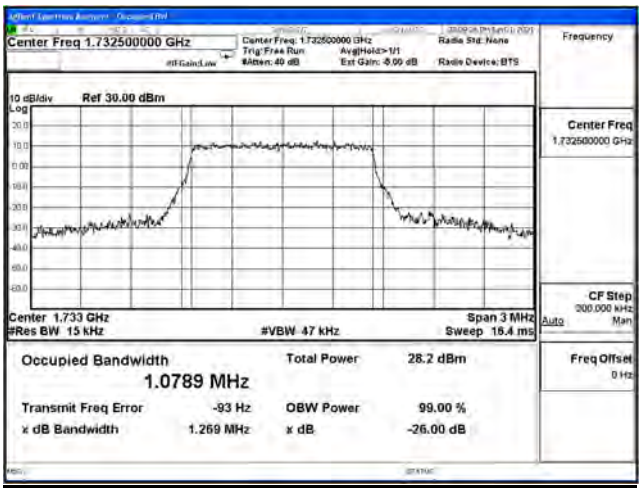

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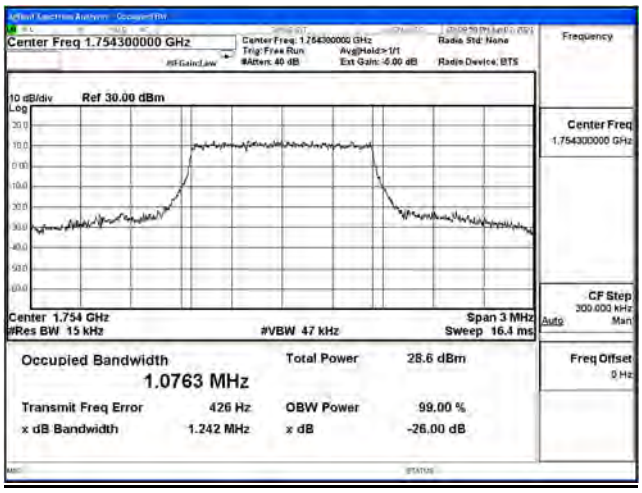

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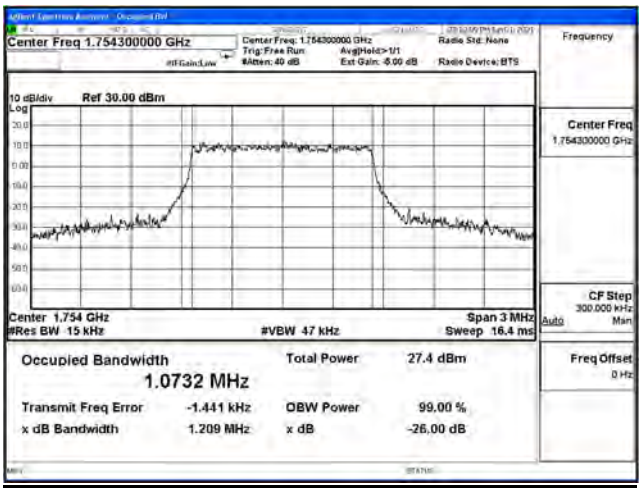

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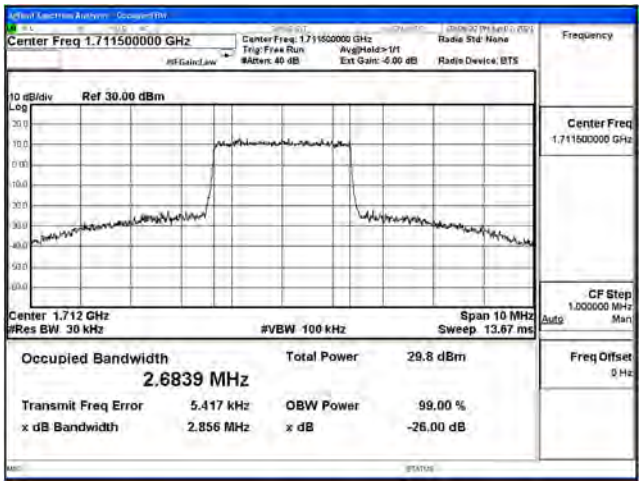

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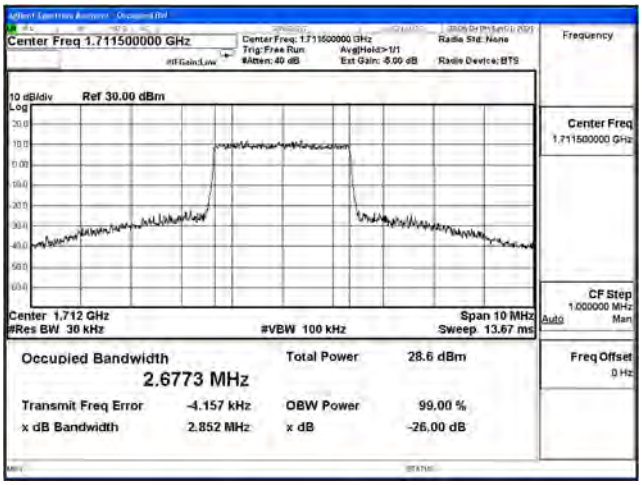

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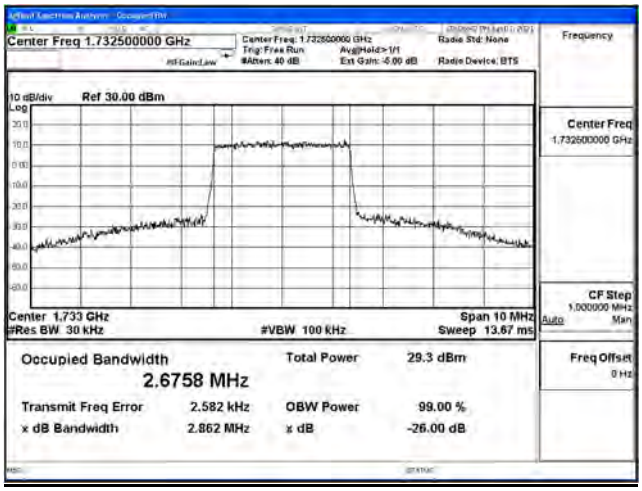

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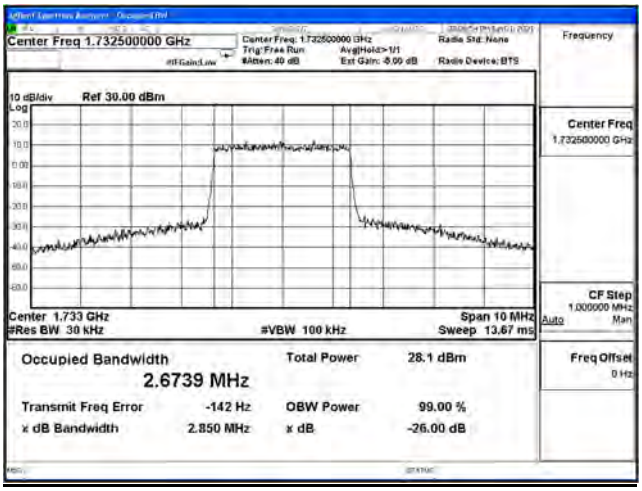

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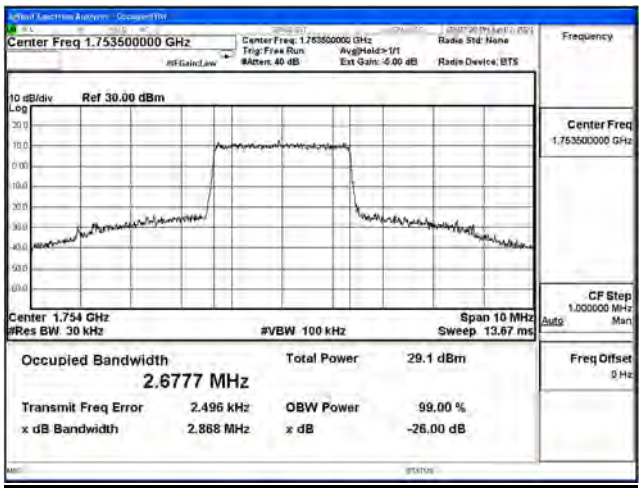

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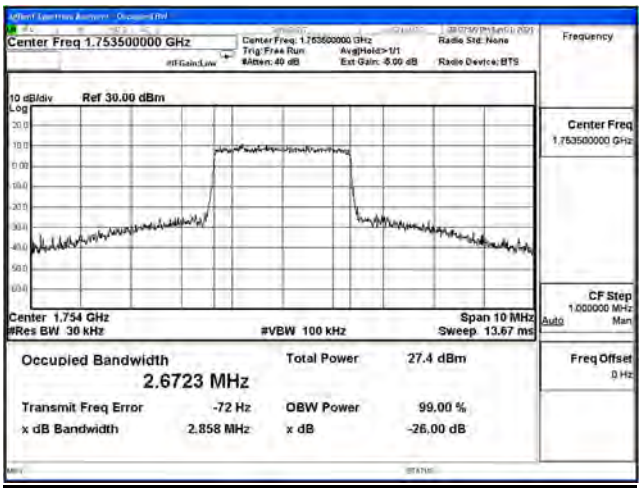

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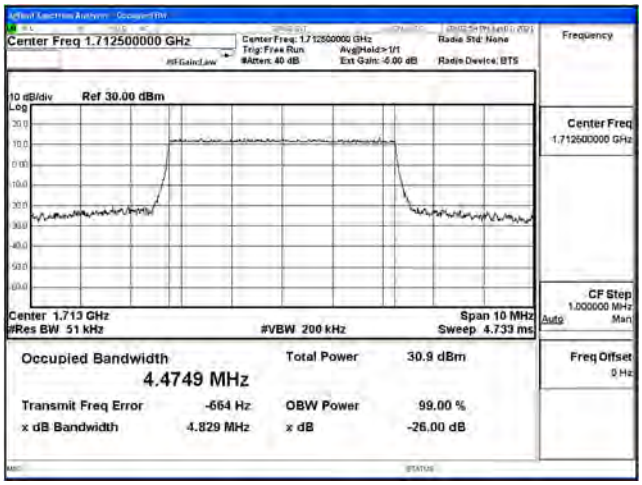

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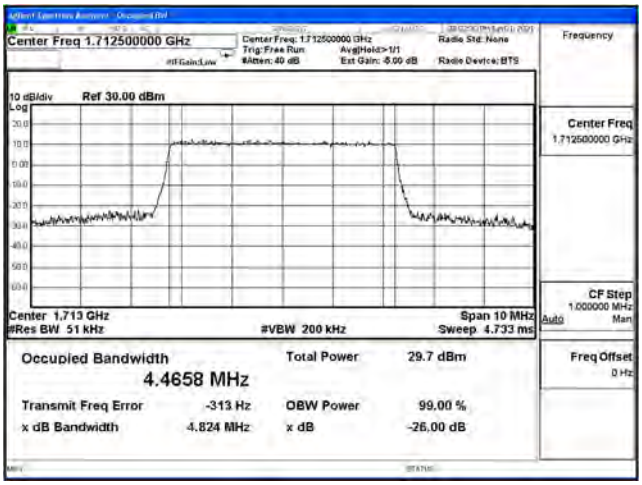

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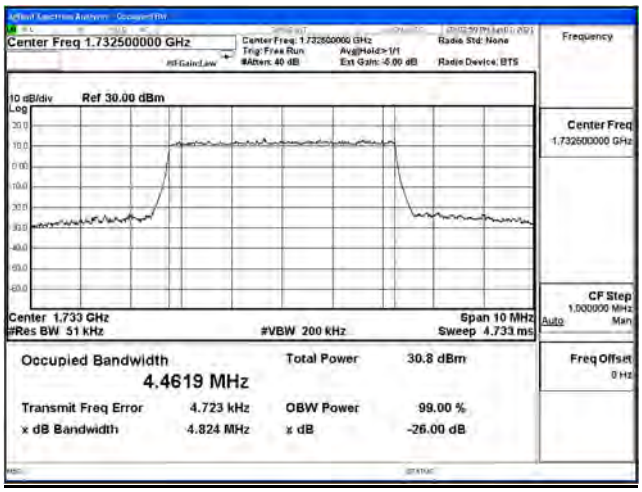

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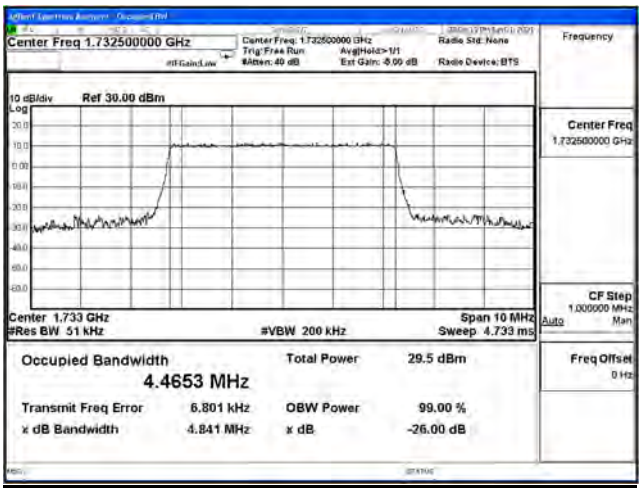

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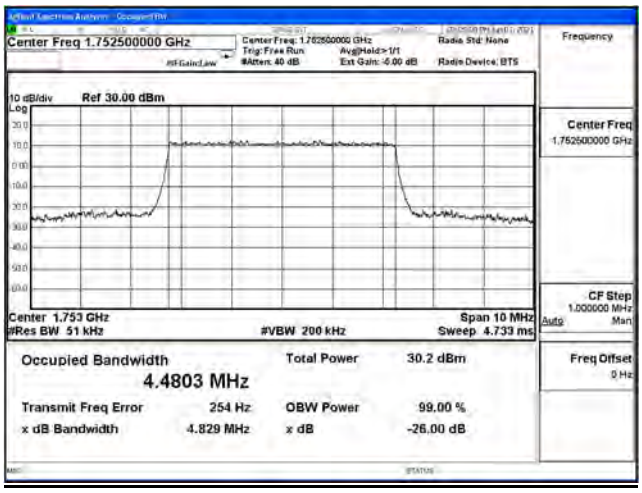

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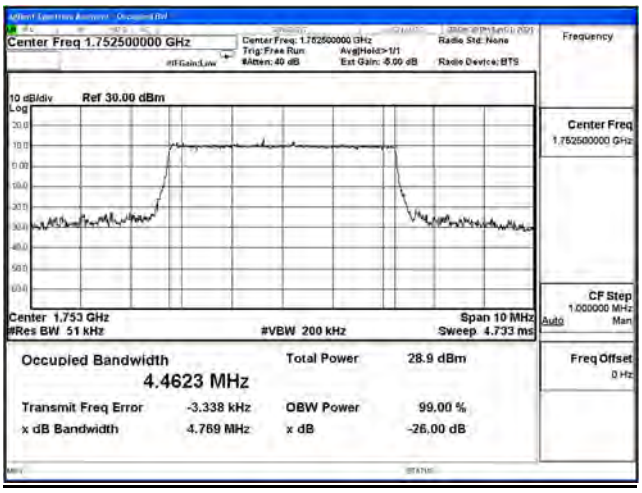

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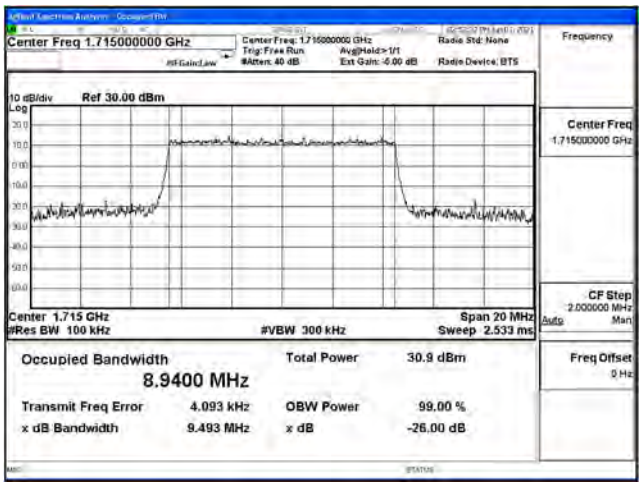

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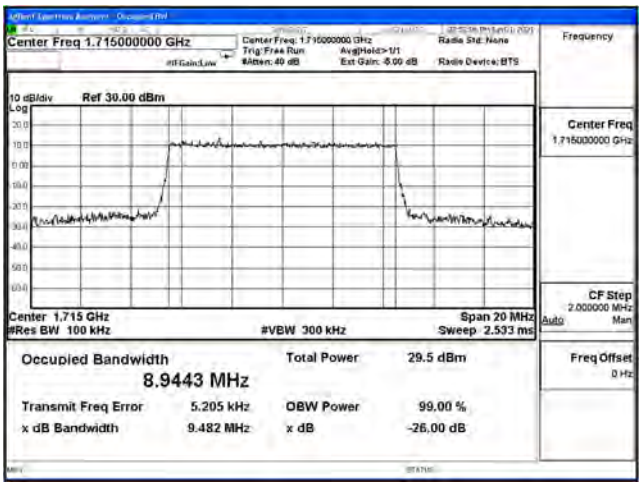

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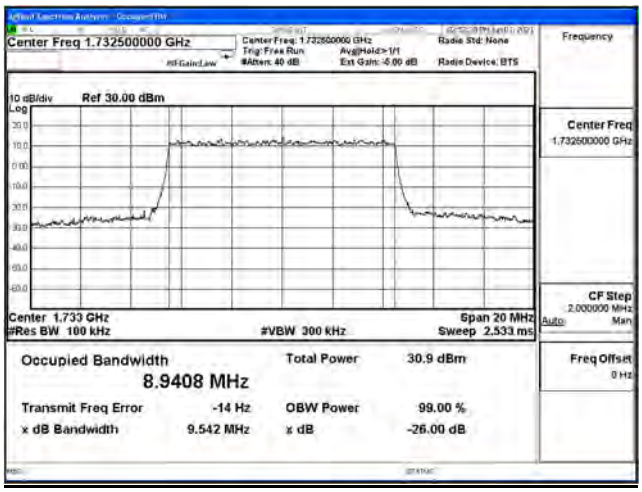

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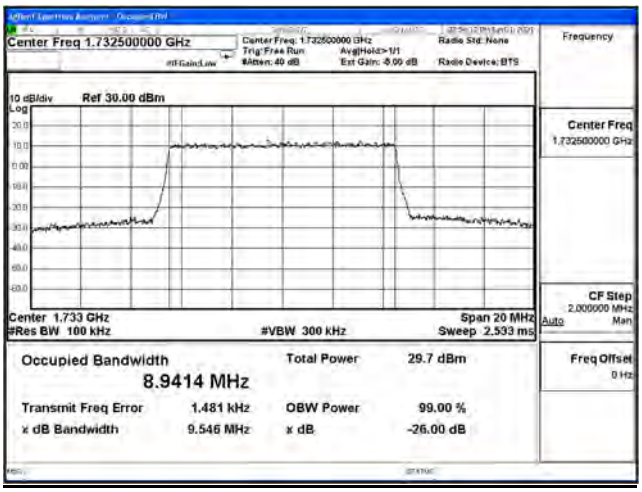

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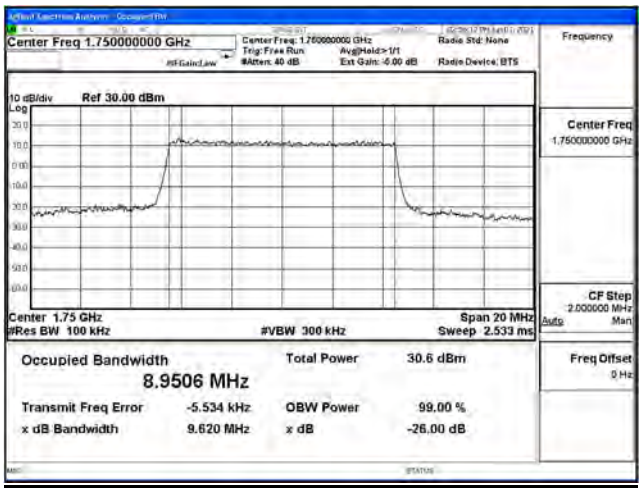

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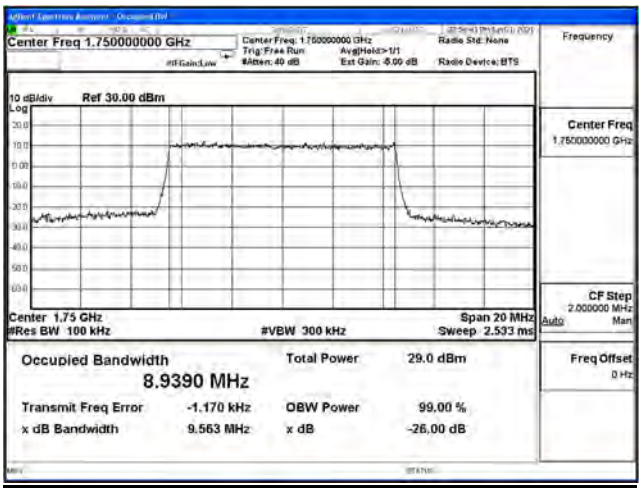

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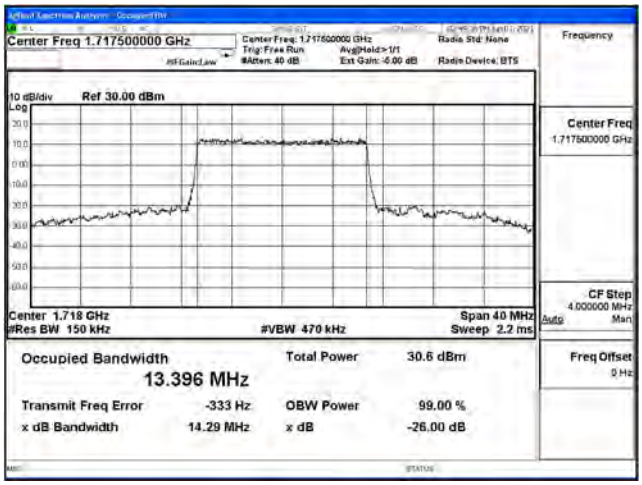

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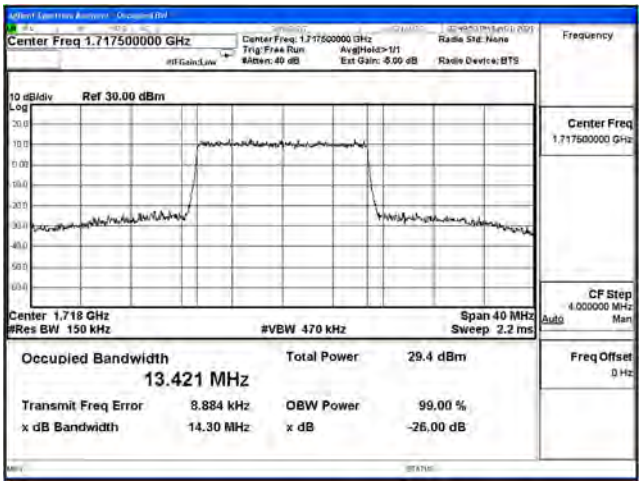

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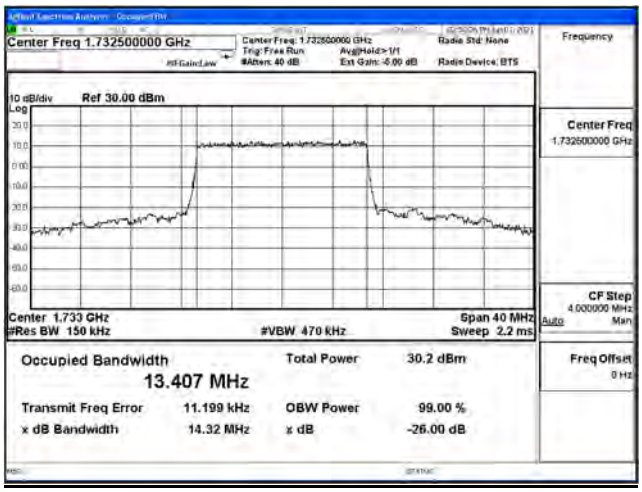

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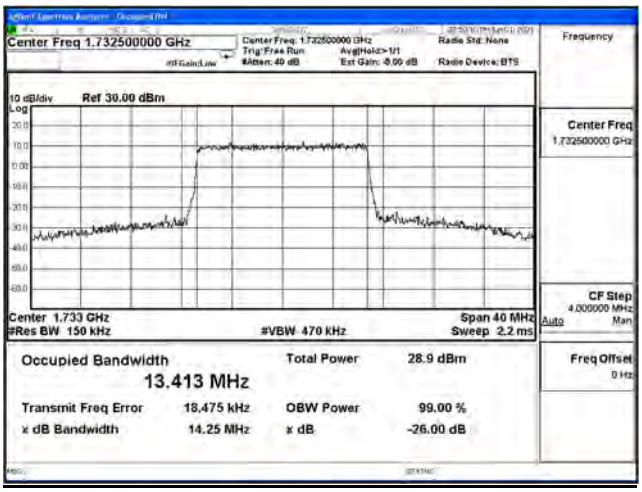

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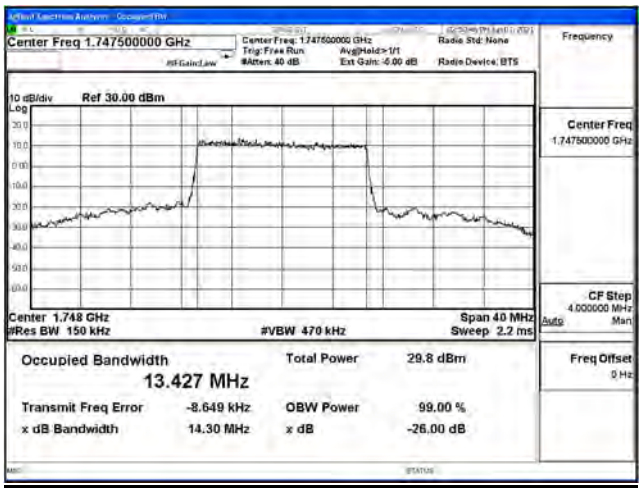

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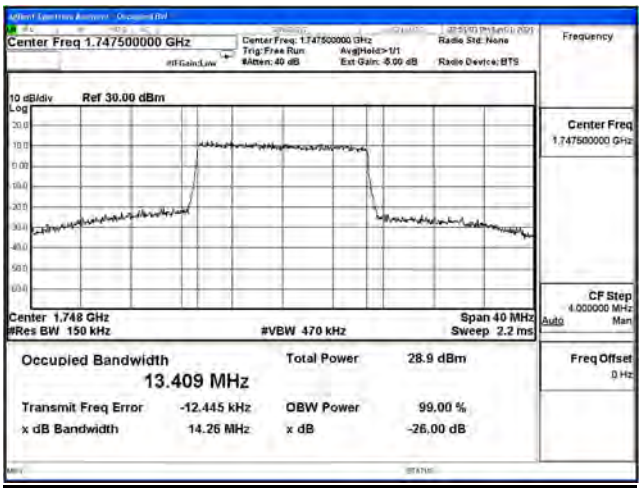

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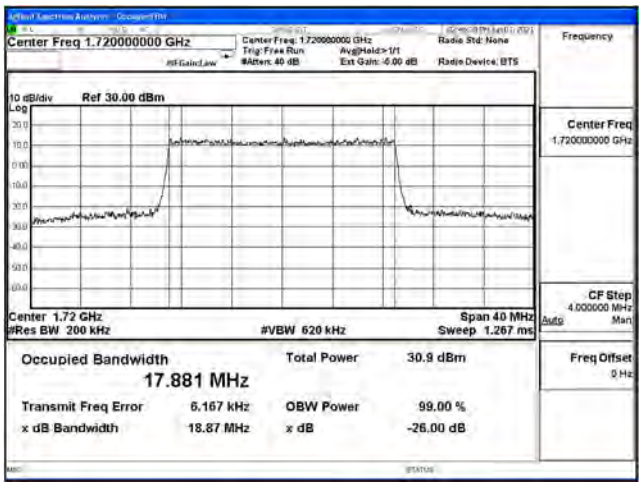

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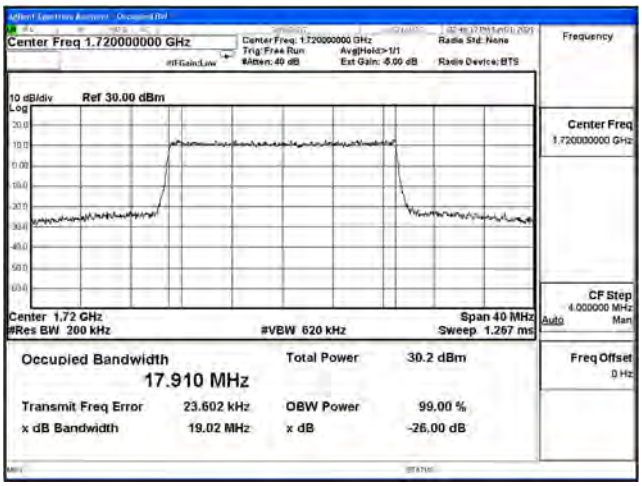

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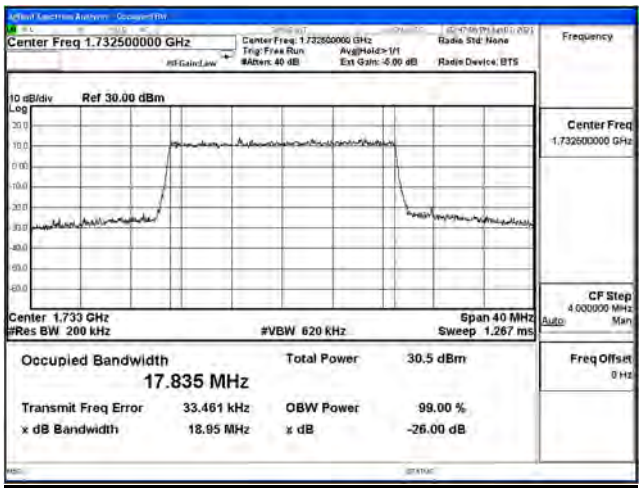

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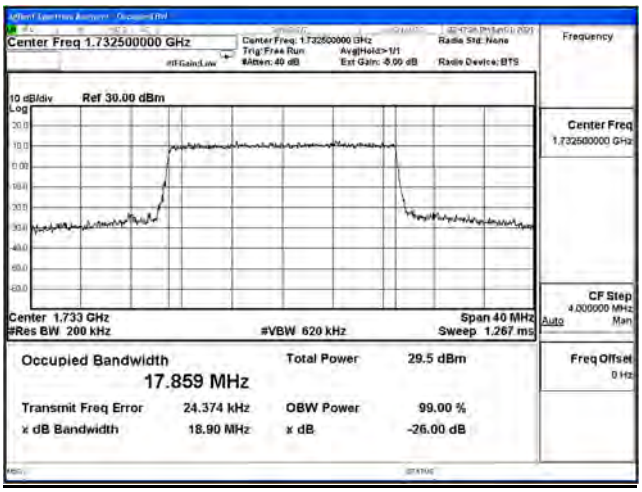

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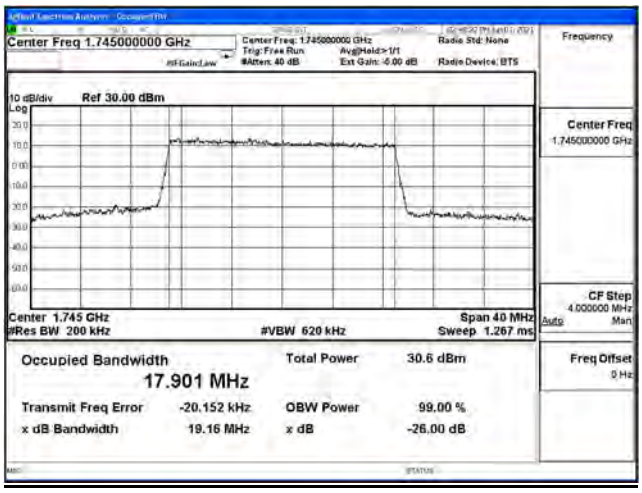

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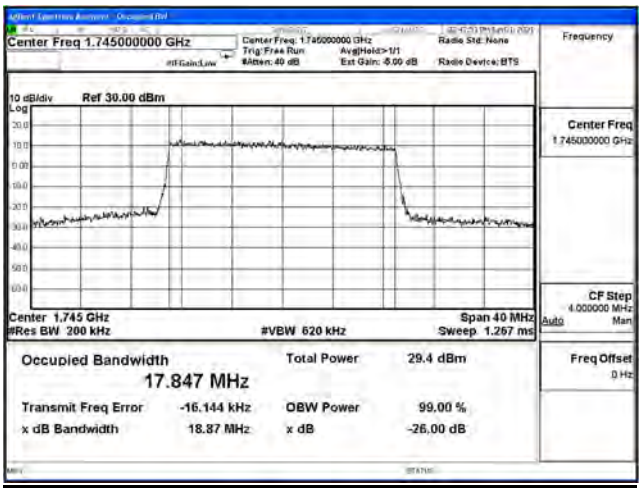
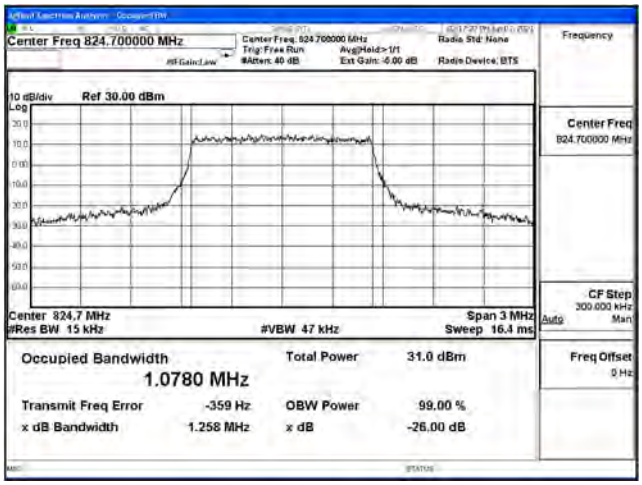


Product Name	WCDMA/LTE Mobile Phone		
Test Mode	Mode 3: LTE Band 5		
Date of Test	2021/06/01	Test Site	SR10-H
Temperature(°C)	26	Humidity (%RH)	60

LTE Band5_Full RB					
Bandwidth (MHz)	Modulation	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
			26dB BW	99% BW	
1.4M	QPSK	824.7	1.258	1.078	N/A
		836.5	1.230	1.083	N/A
		848.3	1.239	1.076	N/A
	16-QAM	824.7	1.210	1.074	N/A
		836.5	1.241	1.078	N/A
		848.3	1.257	1.080	N/A
3M	QPSK	825.5	2.839	2.673	N/A
		836.5	2.855	2.678	N/A
		847.5	2.859	2.680	N/A
	16-QAM	825.5	2.848	2.677	N/A
		836.5	2.839	2.681	N/A
		847.5	2.860	2.675	N/A
5M	QPSK	826.5	4.806	4.461	N/A
		836.5	4.813	4.461	N/A
		846.5	4.818	4.475	N/A
	16-QAM	826.5	4.847	4.463	N/A
		836.5	4.789	4.457	N/A
		846.5	4.818	4.469	N/A
10M	QPSK	829.0	9.578	8.940	N/A
		836.5	9.478	8.931	N/A
		844.0	9.529	8.930	N/A
	16-QAM	829.0	9.545	8.942	N/A
		836.5	9.481	8.938	N/A
		844.0	9.523	8.933	N/A

LTE_B5_CH20407_1.4M__QPSK_6RB0



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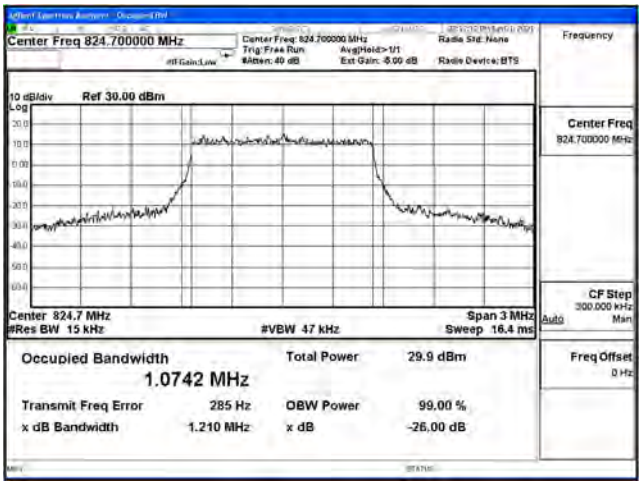

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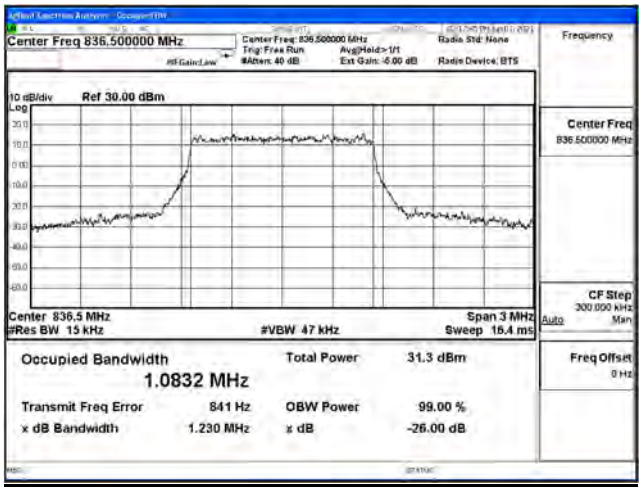

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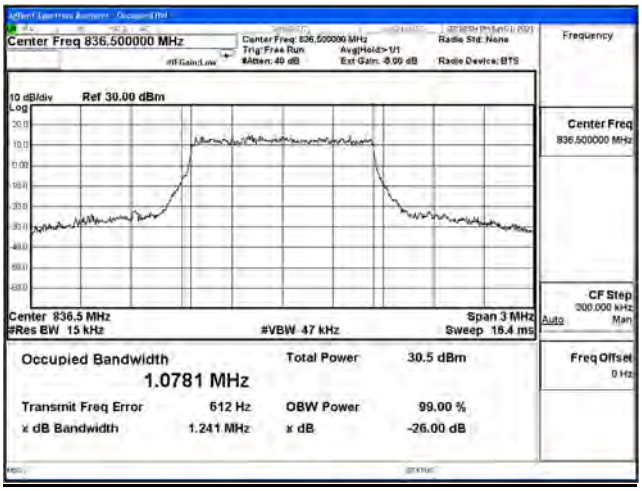

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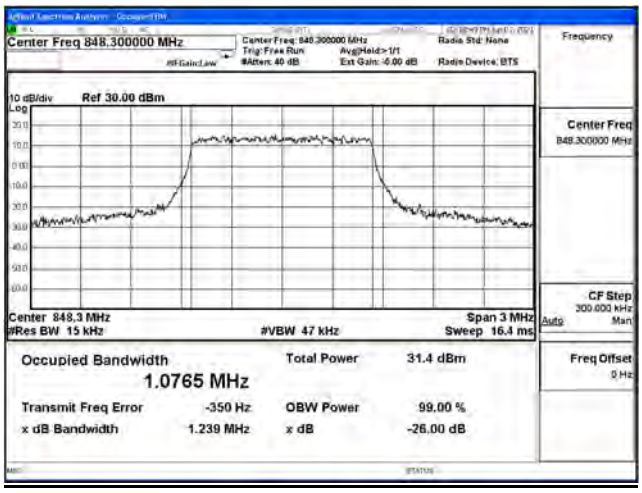

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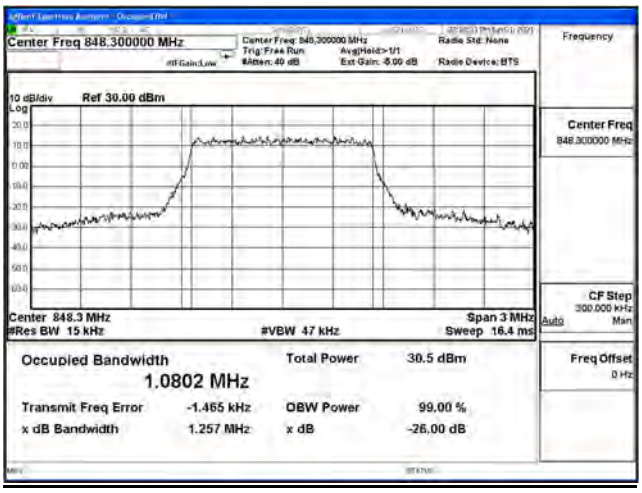

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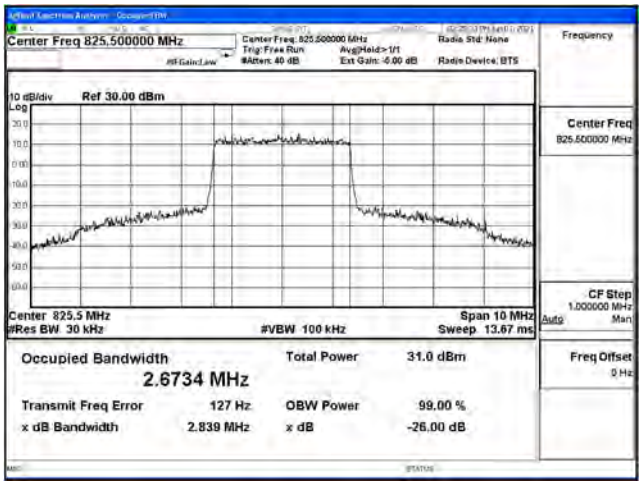

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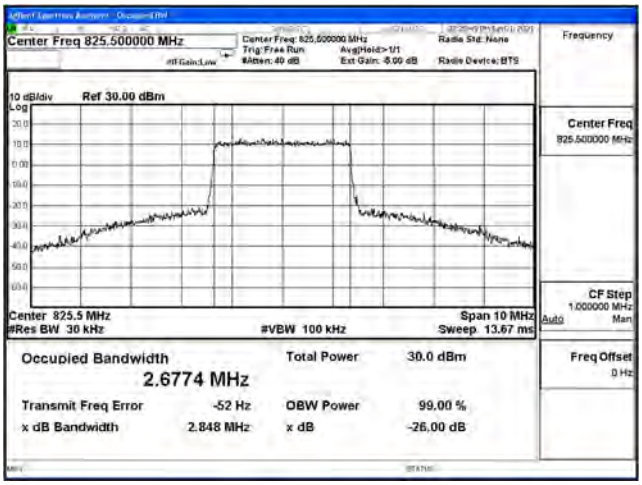

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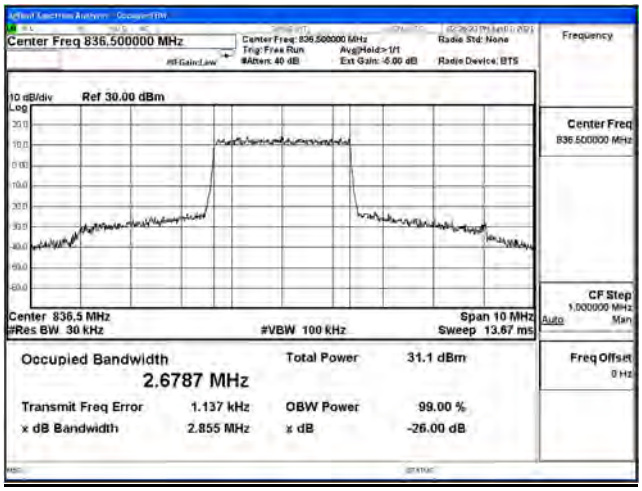

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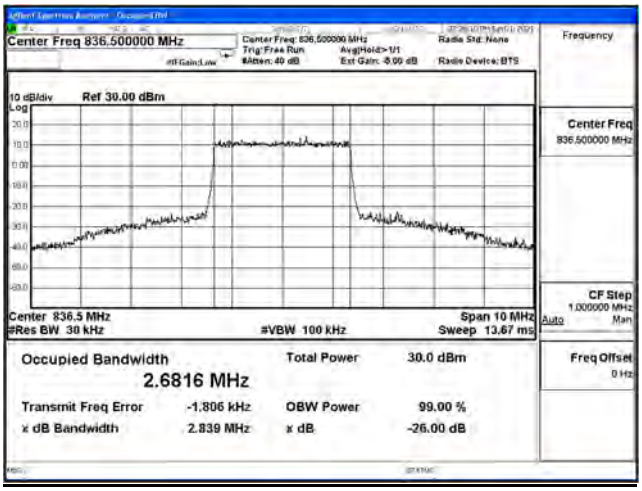

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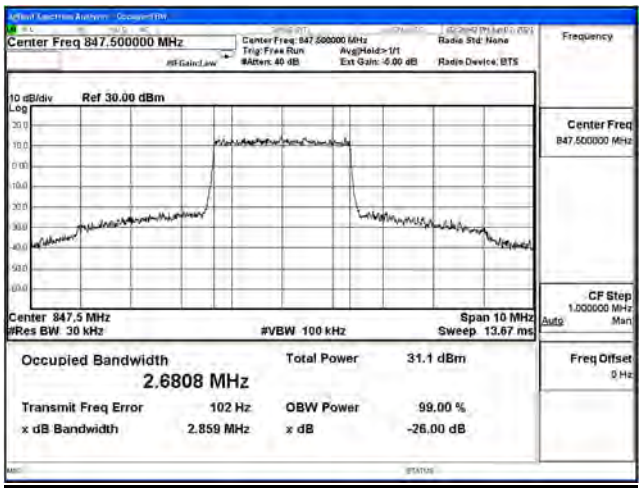

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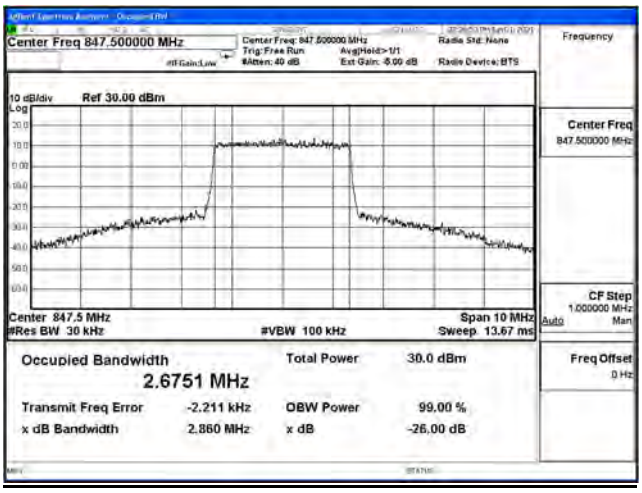

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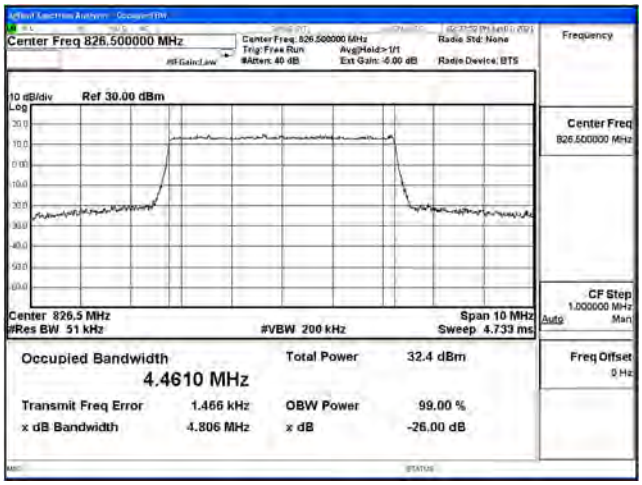

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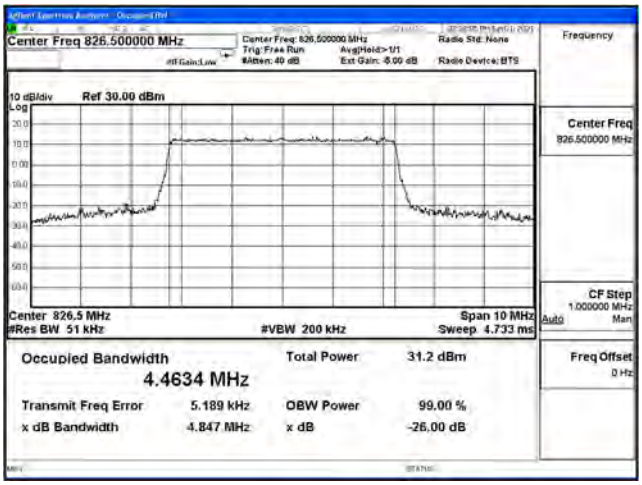

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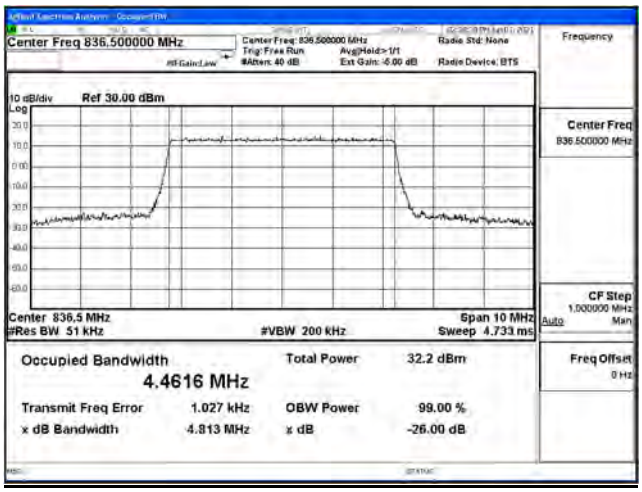

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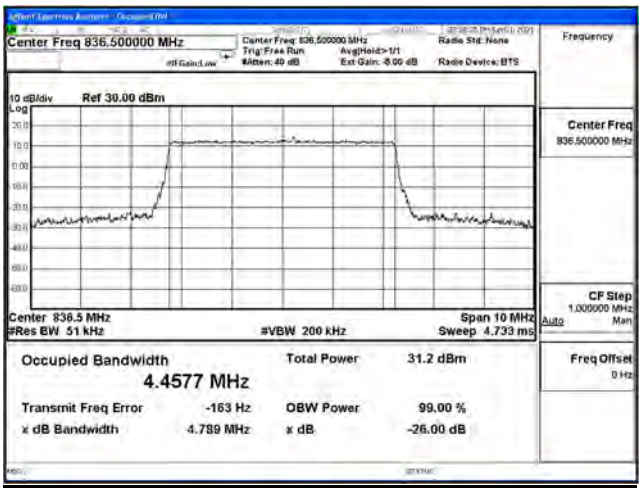

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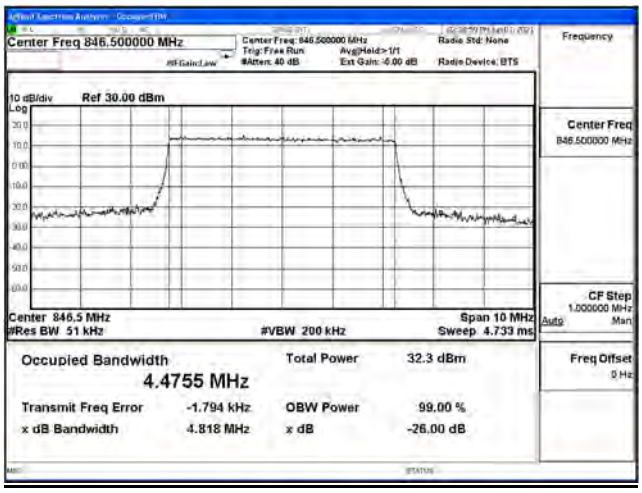

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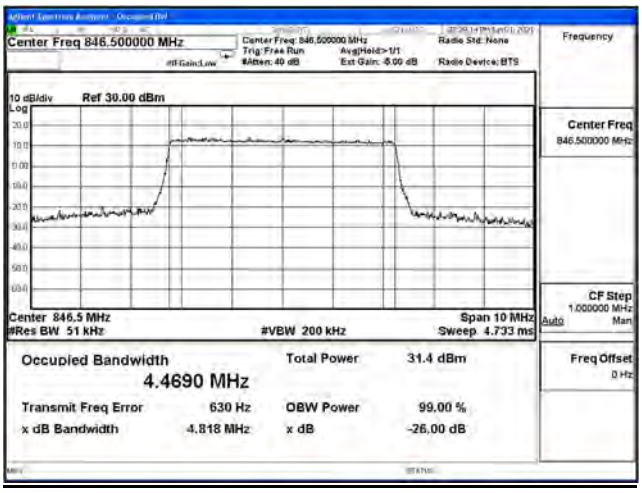

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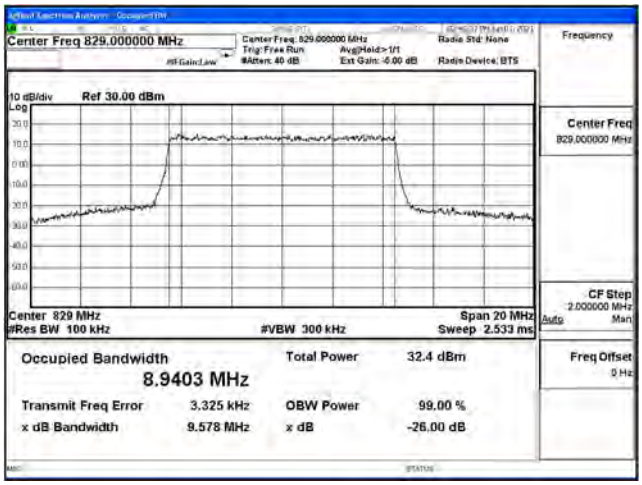

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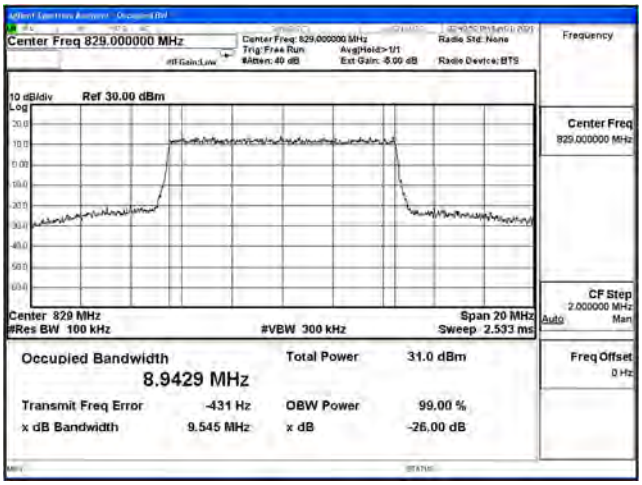

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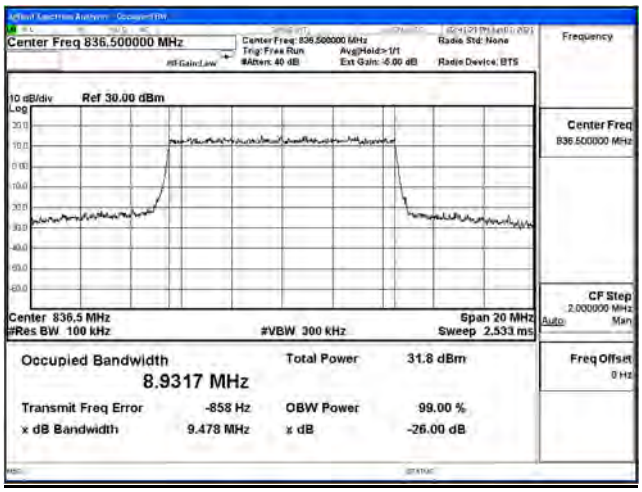

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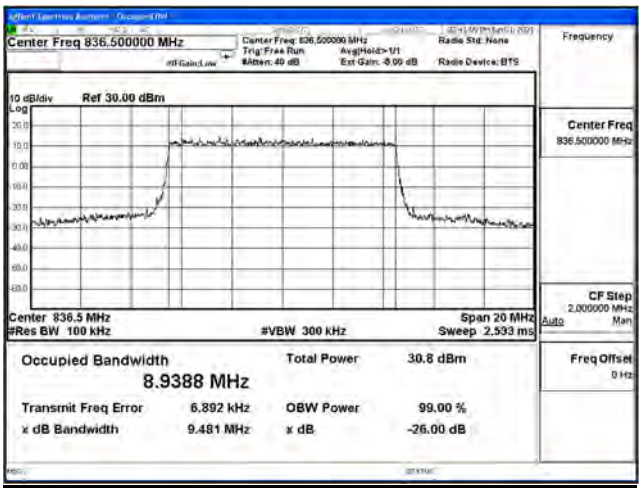

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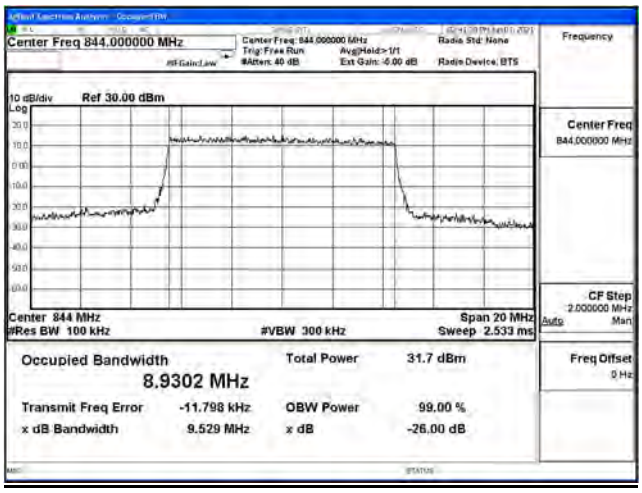

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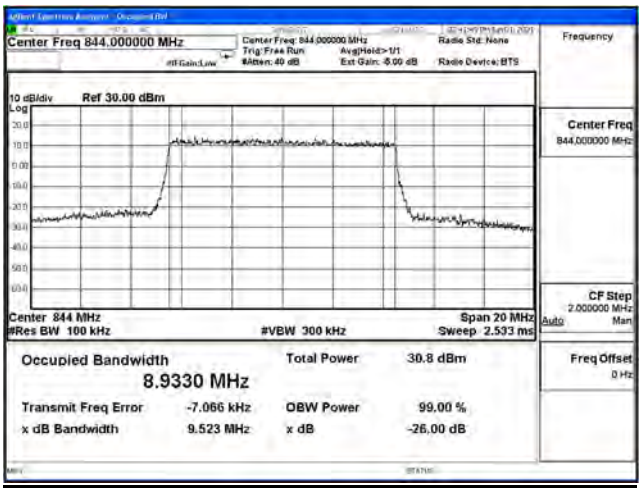
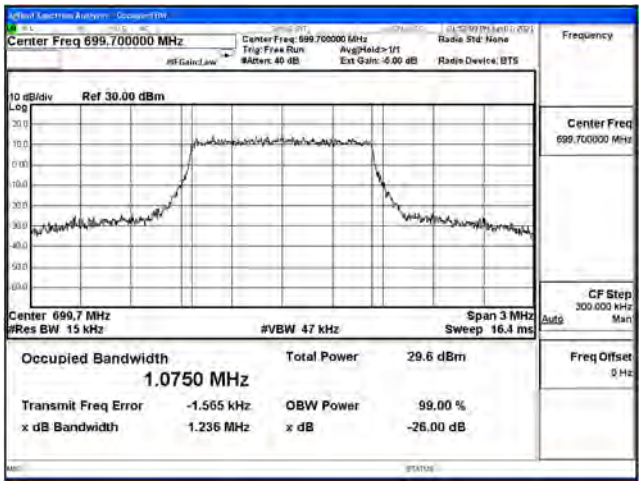


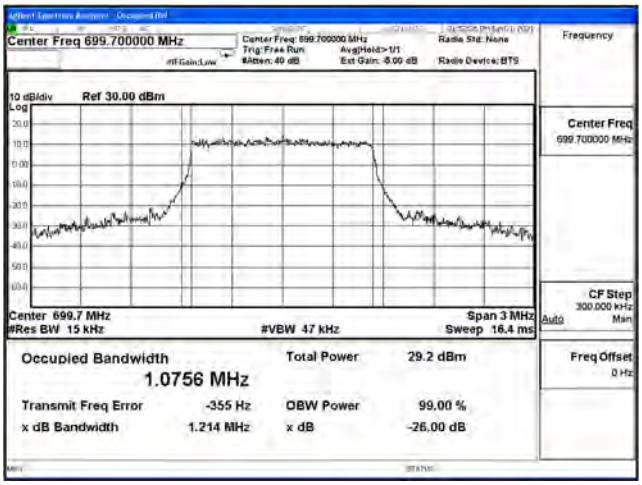
Product Name	WCDMA/LTE Mobile Phone		
Test Mode	Mode 4: LTE Band 12		
Date of Test	2021/06/01	Test Site	SR10-H
Temperature(°C)	26	Humidity (%RH)	60

LTE Band12_Full RB					
Bandwidth (MHz)	Modulation	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
			26dB BW	99% BW	
1.4M	QPSK	699.7	1.236	1.075	N/A
		707.5	1.240	1.081	N/A
		715.3	1.239	1.075	N/A
	16-QAM	699.7	1.214	1.075	N/A
		707.5	1.235	1.077	N/A
		715.3	1.260	1.080	N/A
3M	QPSK	700.5	2.862	2.677	N/A
		707.5	2.862	2.678	N/A
		714.5	2.858	2.676	N/A
	16-QAM	700.5	2.851	2.673	N/A
		707.5	2.851	2.674	N/A
		714.5	2.835	2.675	N/A
5M	QPSK	701.5	5.010	4.484	N/A
		707.5	5.046	4.471	N/A
		713.5	4.996	4.467	N/A
	16-QAM	701.5	5.051	4.471	N/A
		707.5	5.043	4.478	N/A
		713.5	4.940	4.467	N/A
10M	QPSK	704.0	9.758	8.951	N/A
		707.5	9.953	8.969	N/A
		711.0	9.721	8.932	N/A
	16-QAM	704.0	9.912	8.958	N/A
		707.5	9.627	8.955	N/A
		711.0	9.771	8.937	N/A

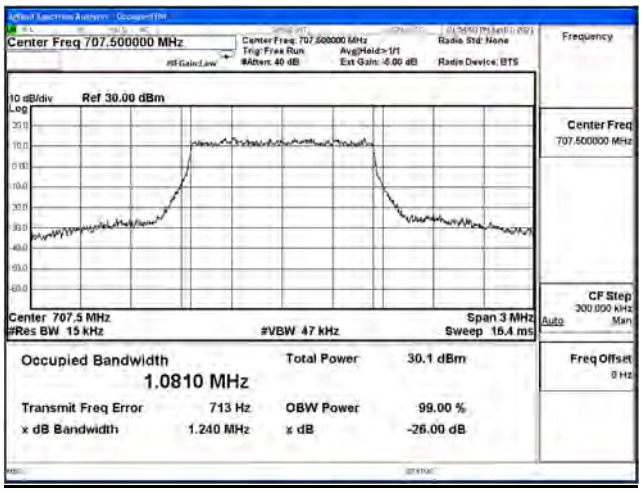
LTE_B12_CH23017_1.4M__QPSK_6RB0



LTE_B12_CH23017_1.4M_16-QAM_6RB0



LTE_B12_CH23095_1.4M__QPSK_6RB0



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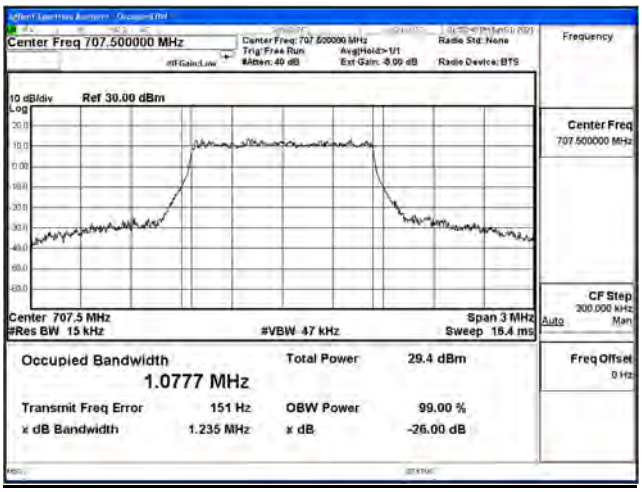

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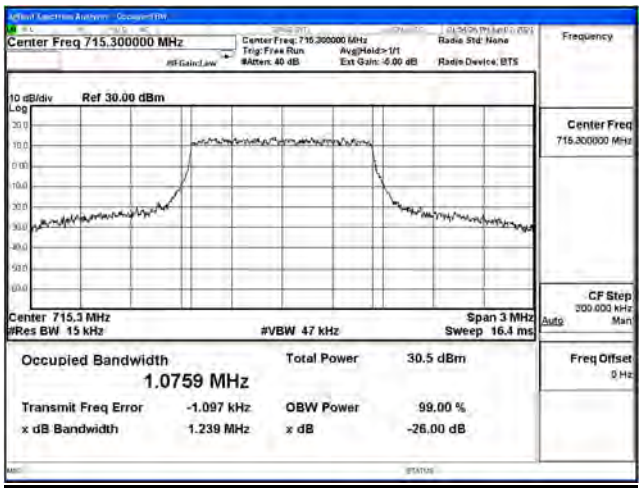

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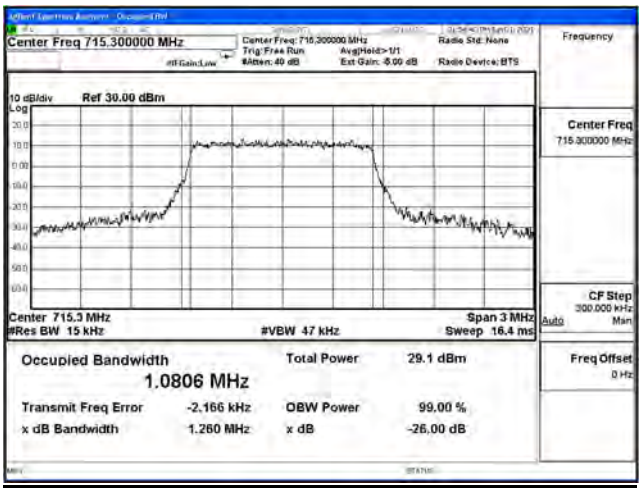
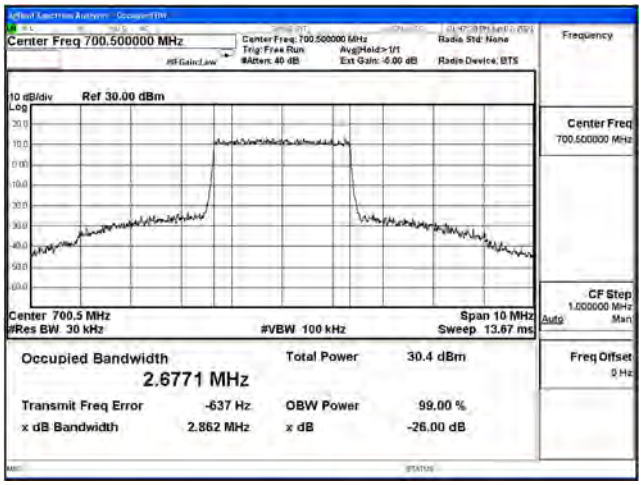


LTE_B12_CH23025_3M__QPSK_15RB0



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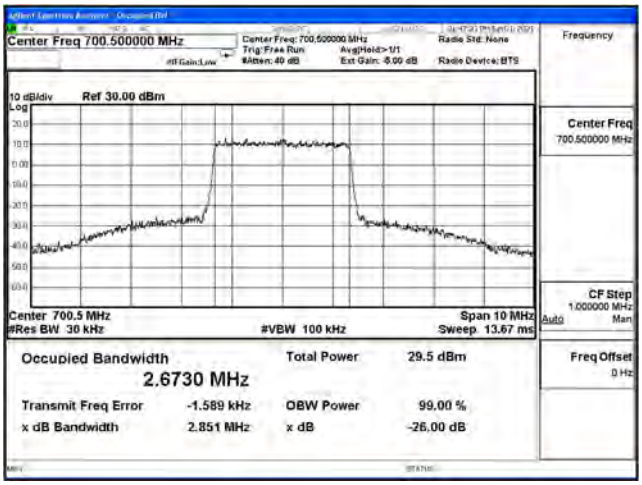

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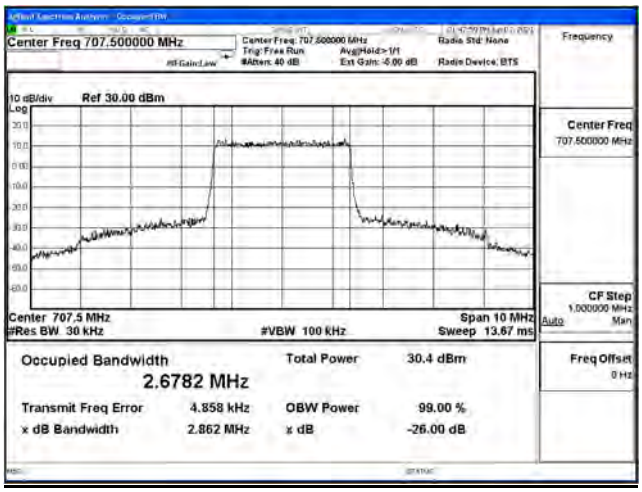

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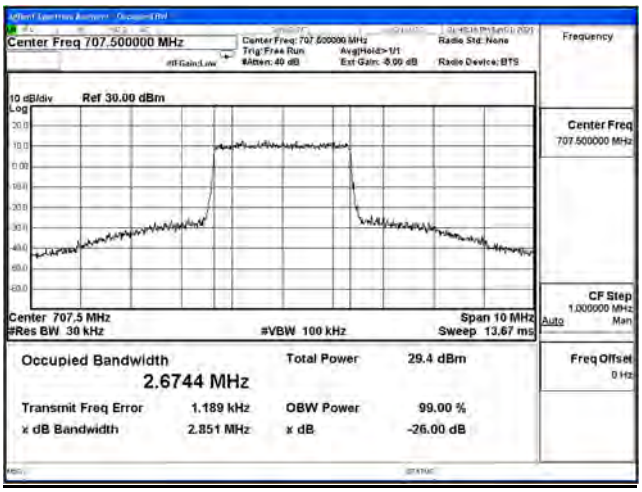

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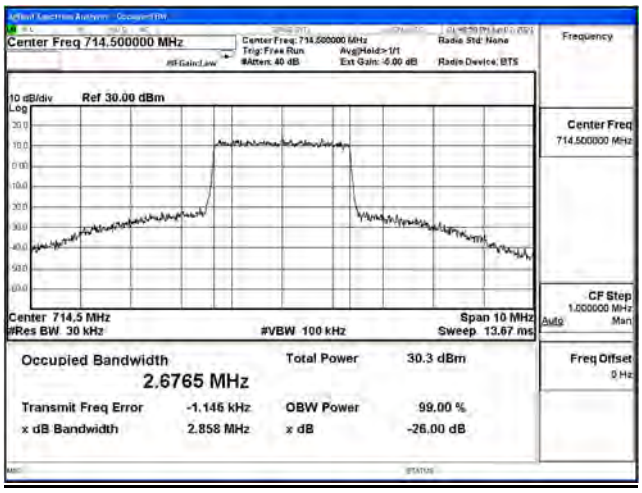

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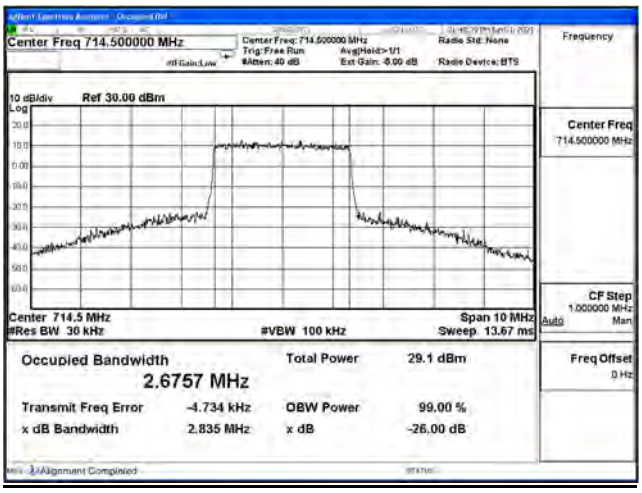

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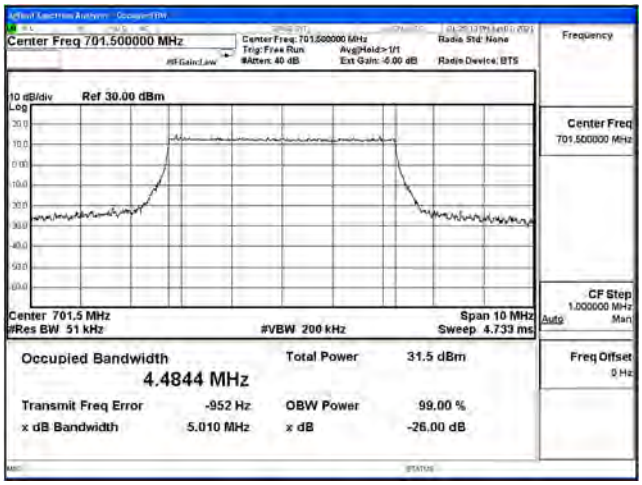

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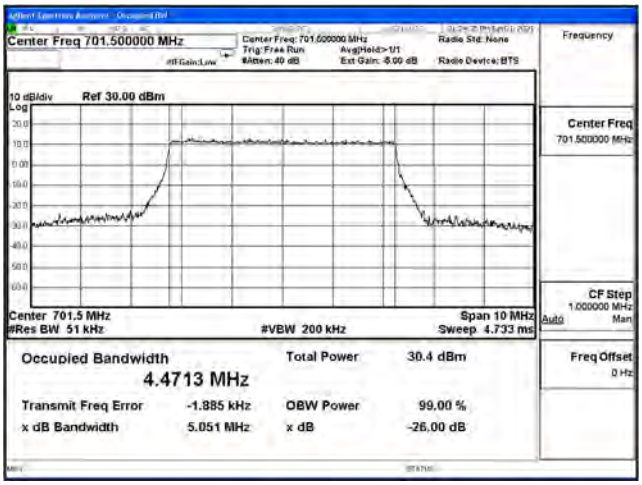

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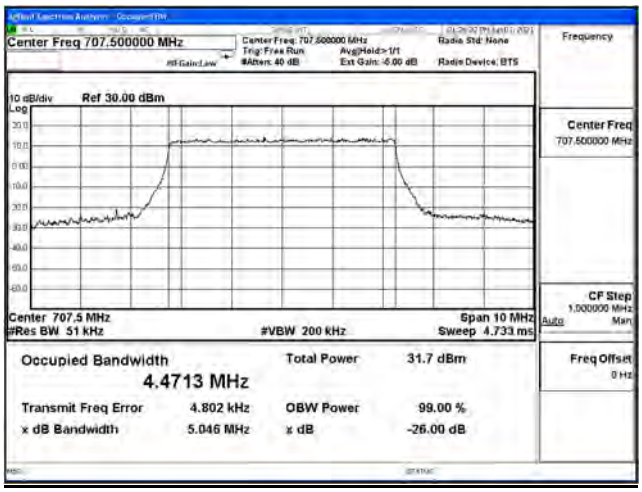

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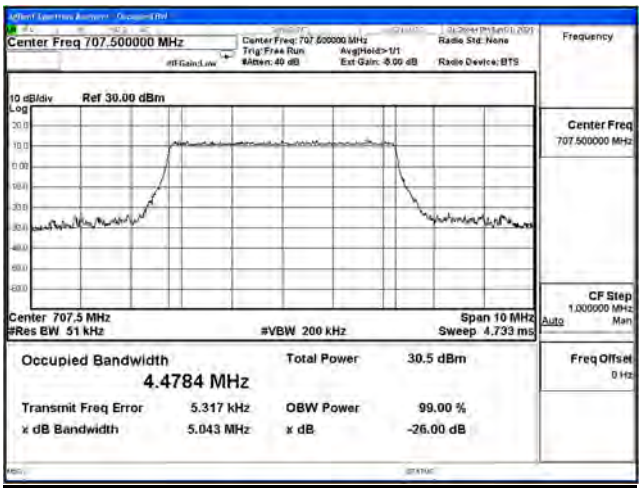

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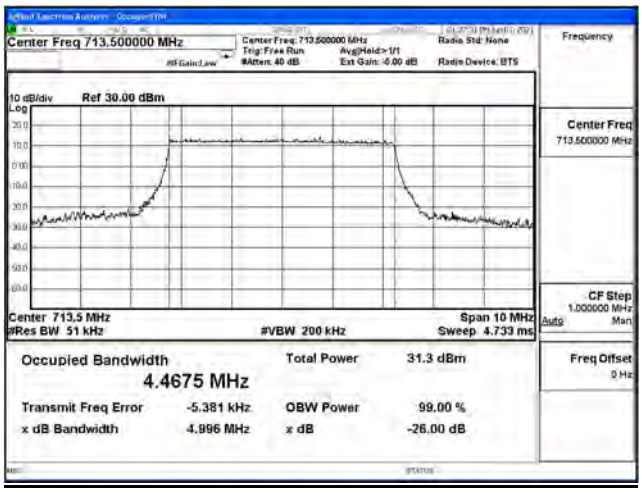

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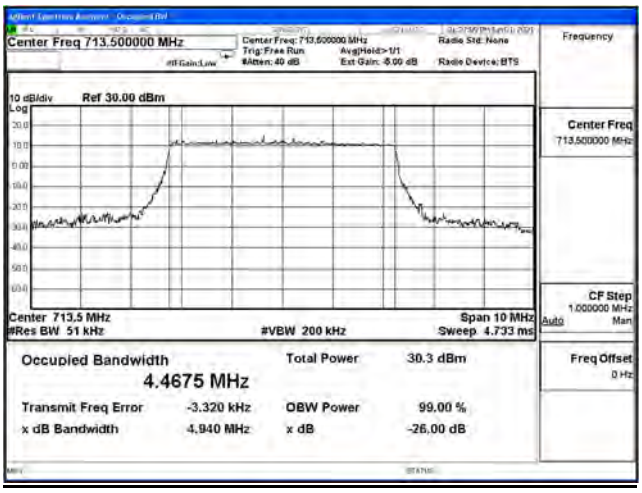

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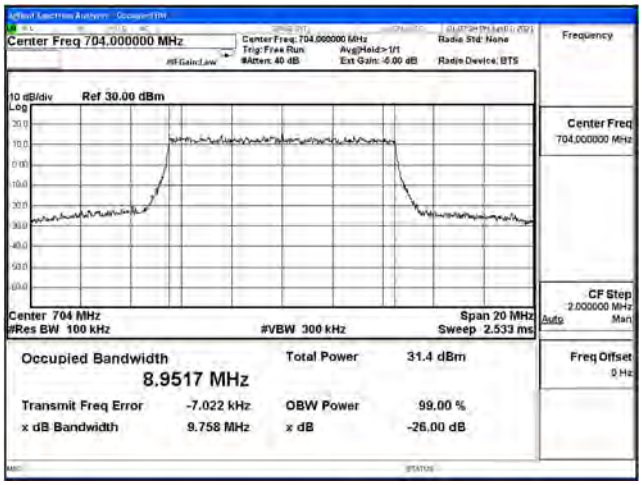

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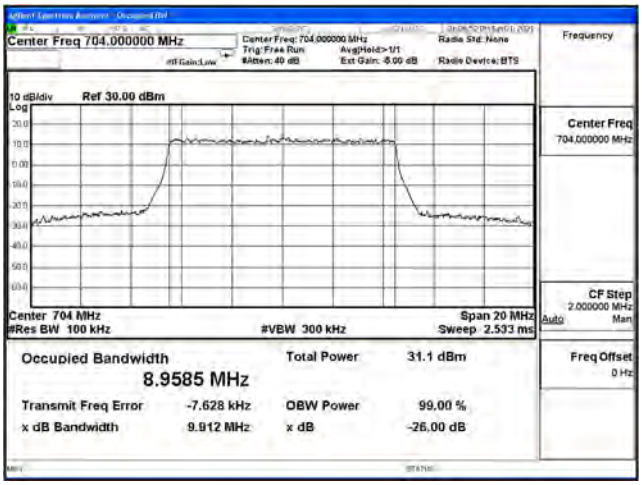

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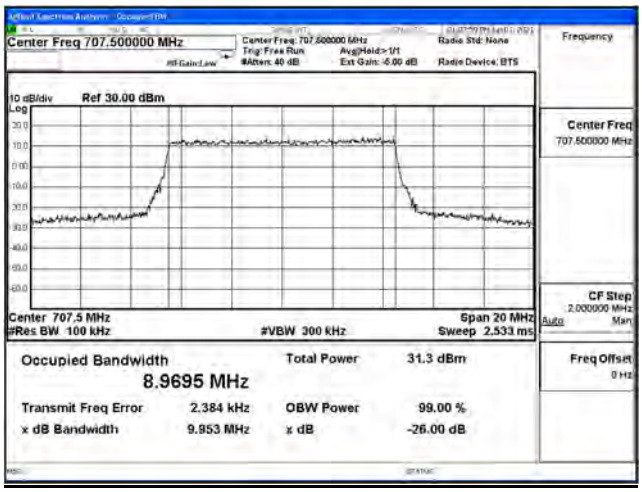

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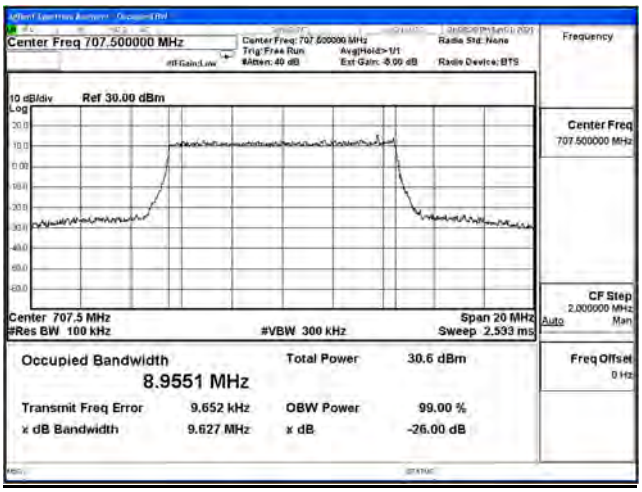

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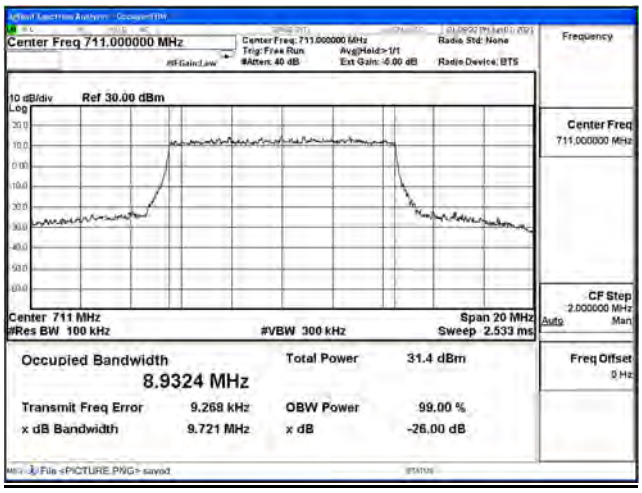

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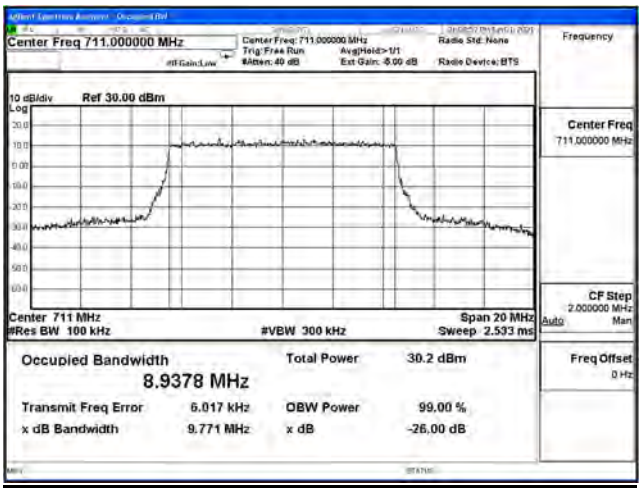
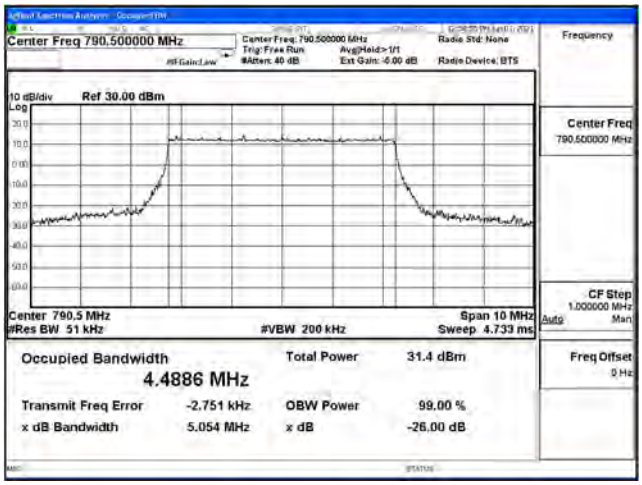


Product Name	WCDMA/LTE Mobile Phone		
Test Mode	Mode 5: LTE Band 14		
Date of Test	2021/06/01	Test Site	SR10-H
Temperature(°C)	26	Humidity (%RH)	60

LTE Band14_Full RB					
Bandwidth (MHz)	Modulation	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
			26dB BW	99% BW	
5M	QPSK	790.5	5.054	4.488	N/A
		793	4.983	4.466	N/A
		795.5	5.010	4.480	N/A
	16-QAM	790.5	5.055	4.489	N/A
		793	5.048	4.477	N/A
		795.5	4.967	4.469	N/A
10M	QPSK	793	9.910	8.960	N/A
	16-QAM	793	9.880	8.956	N/A

LTE_B14_CH23305_5M__QPSK_25RB0



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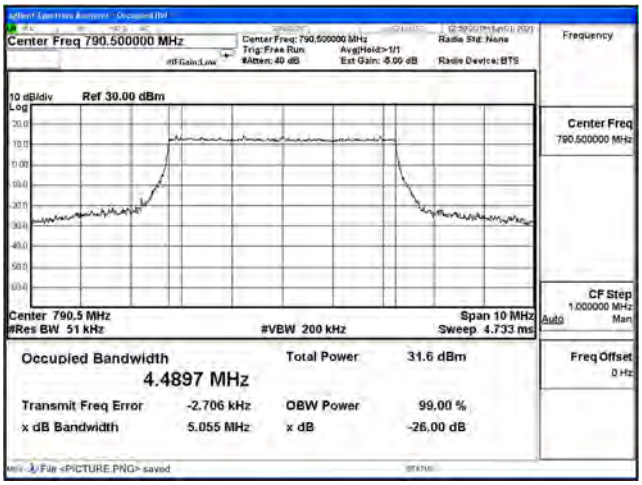

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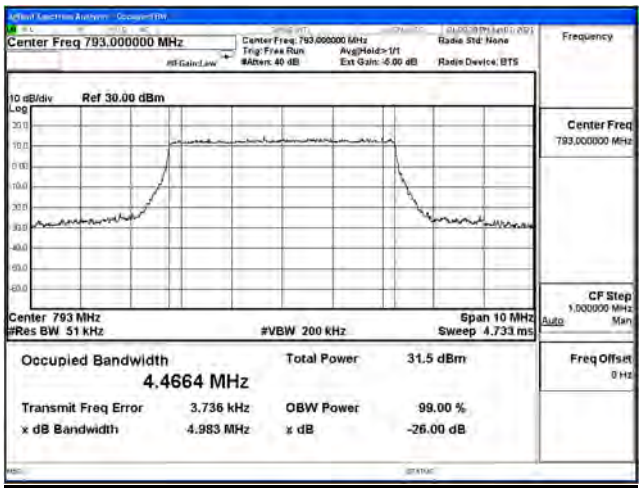
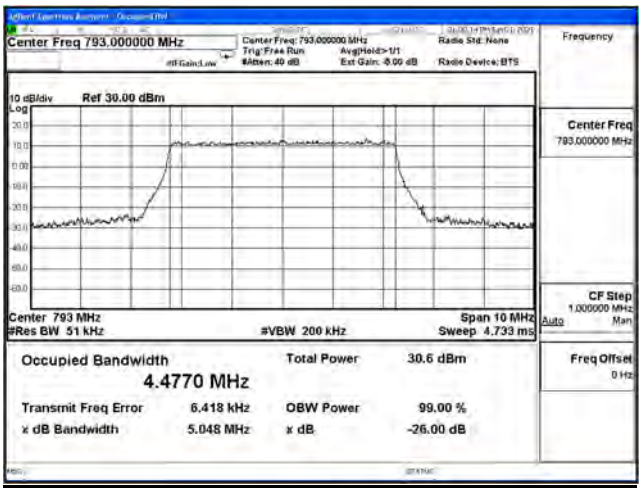


LTE_B14_CH23330_5M_16-QAM_25RB0



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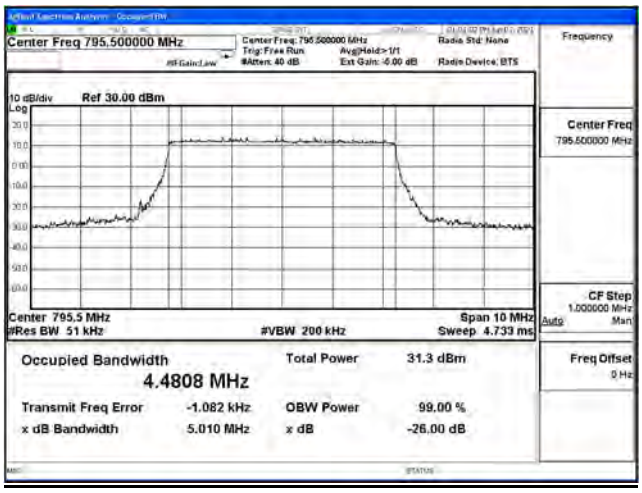

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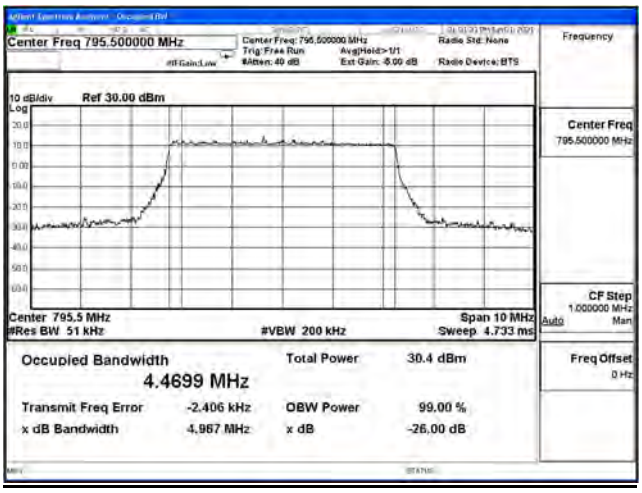

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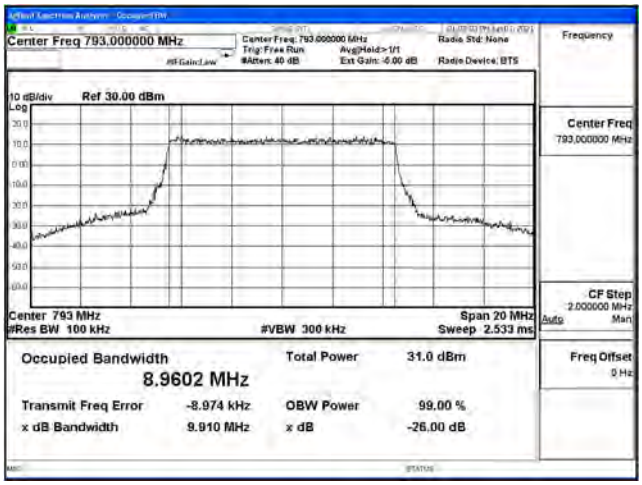
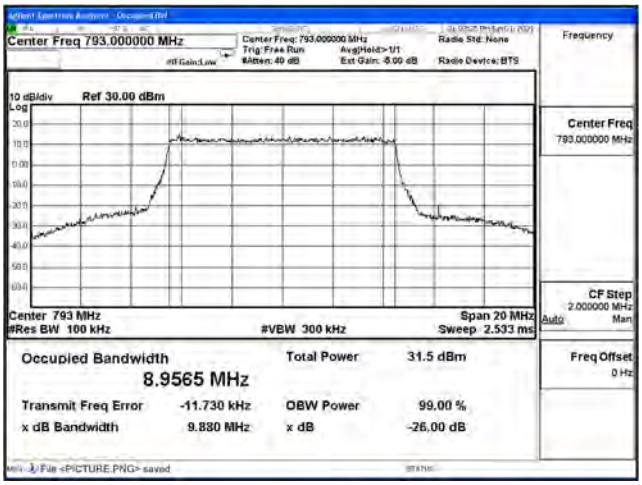
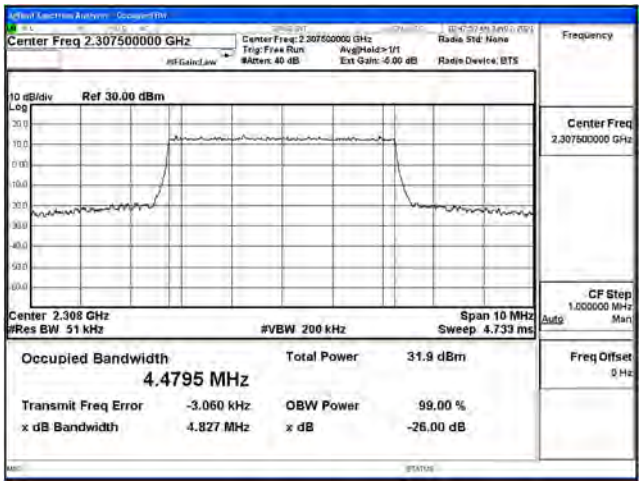
	

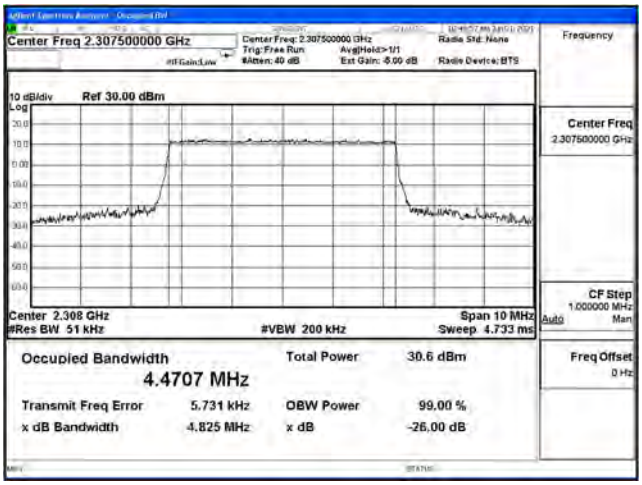
Product Name	WCDMA/LTE Mobile Phone		
Test Mode	Mode 6: LTE Band 30		
Date of Test	2021/06/01	Test Site	SR10-H
Temperature(°C)	26	Humidity (%RH)	60

LTE Band30_Full RB					
Bandwidth (MHz)	Modulation	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
			26dB BW	99% BW	
5M	QPSK	2307.5	4.827	4.479	N/A
		2310	4.842	4.464	N/A
		2312.5	4.832	4.475	N/A
	16-QAM	2307.5	4.825	4.470	N/A
		2310	4.879	4.469	N/A
		2312.5	4.790	4.466	N/A
10M	QPSK	2310	9.602	8.950	N/A
	16-QAM	2310	9.532	8.940	N/A

LTE_B30_CH27685_5M__QPSK_25RB0



LTE_B30_CH27685_5M_16-QAM_25RB0



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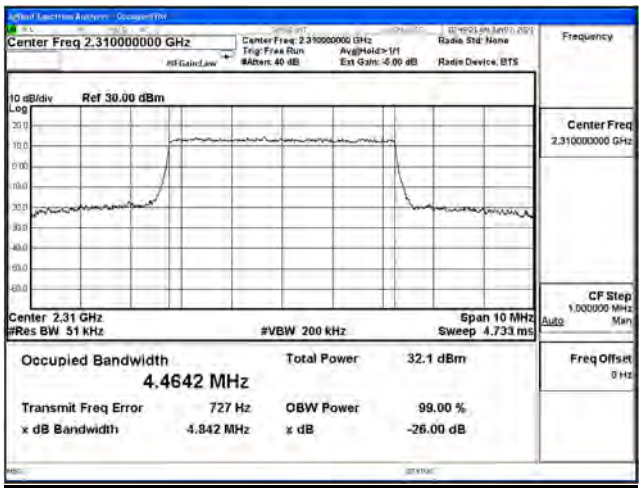
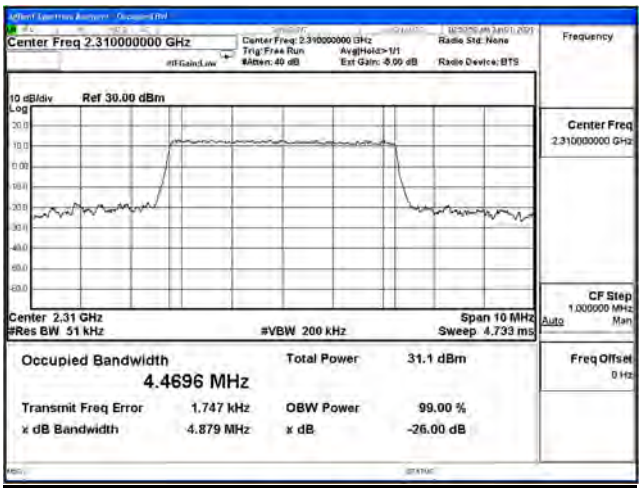


LTE_B30_CH27710_5M_16-QAM_25RB0



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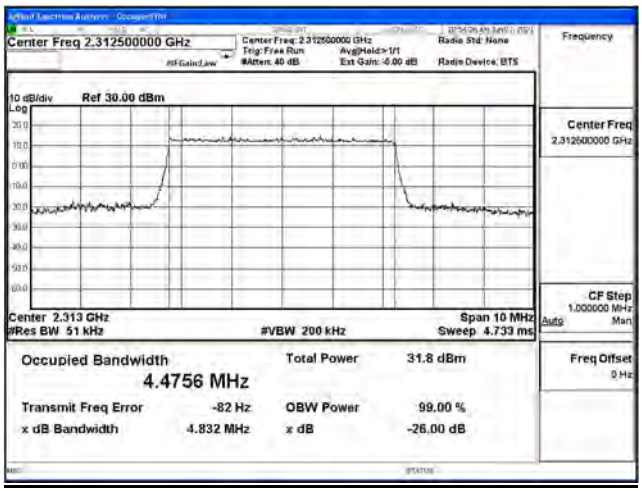

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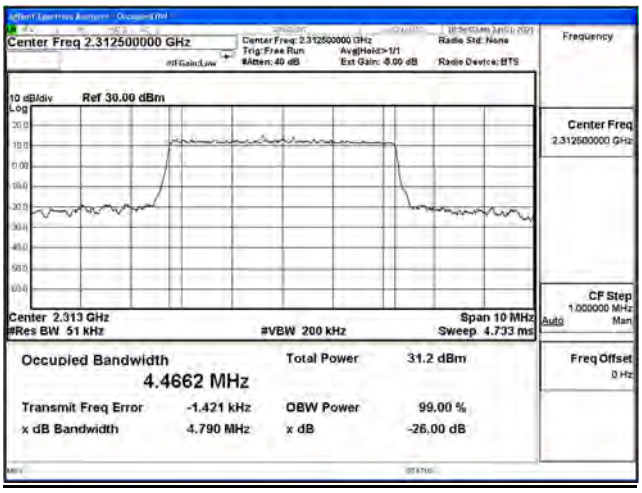
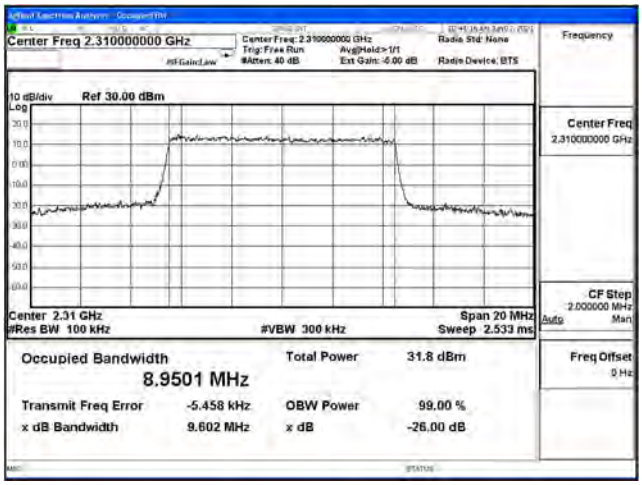
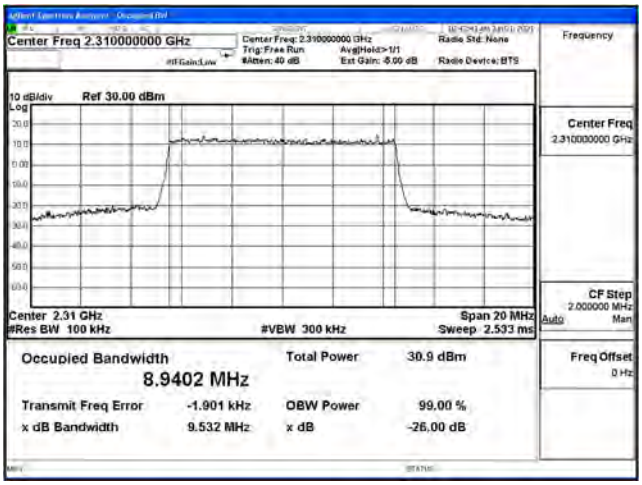
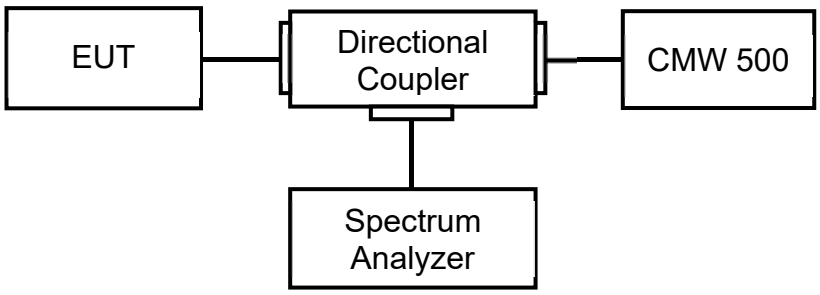


LTE_B30_CH27710_10M__QPSK_50RB0	LTE_B30_CH27710_10M_16-QAM_50RB0
	

5. Peak To Average Ratio

5.1. Test Setup



5.2. Test Procedure

1. Set resolution/measurement bandwidth ≥ signal's occupied bandwidth.
2. Set the number of counts to a value that stabilizes the measured CCDF curve.
3. Record the maximum PAPR level associated with a probability of 0.1 %.

5.3. Test Method

KDB 971168 D01 Power Meas License Digital Systems v03 sub-clause 5.7.2
ANSI C63.26: 2015 Sub-clause 5.2.3.4

5.4. Limit

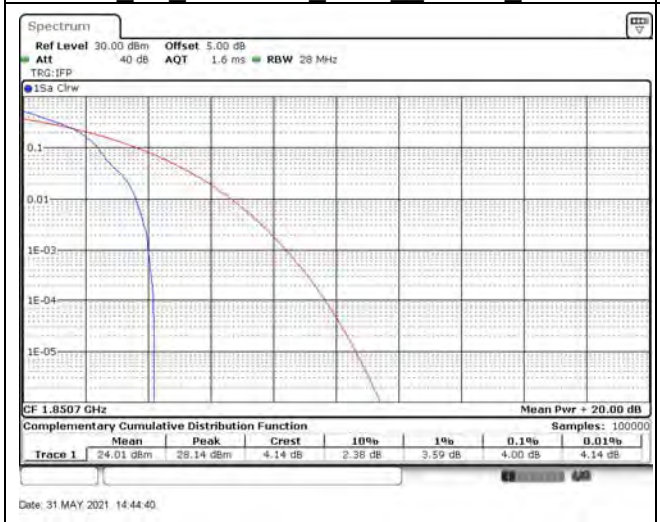
In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13dB.

5.5. Test Result

Product Name	WCDMA/LTE Mobile Phone		
Test Mode	Mode 1: LTE Band 2		
Date of Test	2021/05/31	Test Site	SR10-H
Temperature(°C)	25	Humidity (%RH)	58

BW	Ch	Freq. (MHz)	Modulation	Peak (dBm)	Average (dBm)	PAPR (dB)
1.4M	18607	1850.7	QPSK	28.14	24.01	4.00
			16-QAM	28.03	22.83	5.10
	18900	1880	QPSK	28.29	23.76	4.46
			16-QAM	28.17	22.56	5.51
	19193	1909.3	QPSK	27.82	23.81	4.00
			16-QAM	27.96	23.04	4.81
3M	18615	1851.5	QPSK	28.12	23.89	4.14
			16-QAM	28.11	22.70	4.55
	18900	1880	QPSK	28.06	23.67	4.32
			16-QAM	28.16	22.90	5.10
	19185	1908.5	QPSK	27.81	23.84	3.91
			16-QAM	27.75	22.68	4.99
5M	18625	1852.5	QPSK	27.84	23.44	4.35
			16-QAM	27.64	22.38	5.16
	18900	1880	QPSK	27.65	23.18	4.41
			16-QAM	27.71	22.43	5.13
	19175	1907.5	QPSK	27.51	23.29	4.14
			16-QAM	27.50	22.79	4.67
10M	18650	1855	QPSK	26.72	22.56	4.00
			16-QAM	26.76	21.60	4.96
	18900	1880	QPSK	26.93	22.53	4.29
			16-QAM	26.93	21.72	5.13
	19150	1905	QPSK	26.68	22.49	4.12
			16-QAM	26.79	21.54	5.10
15M	18675	1857.5	QPSK	26.51	22.11	4.20
			16-QAM	26.48	21.29	5.04
	18900	1880	QPSK	26.56	22.03	4.41
			16-QAM	26.54	21.14	5.33
	19125	1902.5	QPSK	26.21	22.06	4.00
			16-QAM	26.15	21.16	4.87
20M	18700	1860	QPSK	25.99	21.44	4.38
			16-QAM	25.82	20.48	5.22
	18900	1880	QPSK	25.76	21.50	4.14
			16-QAM	26.11	20.47	5.48
	19100	1900	QPSK	25.88	21.52	4.23
			16-QAM	25.86	20.48	5.16

LTE_B2_CH18607_1.4M__QPSK_1RB0



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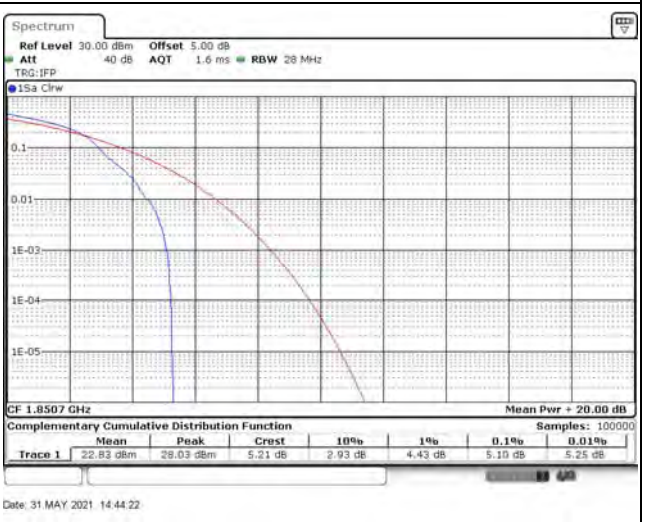

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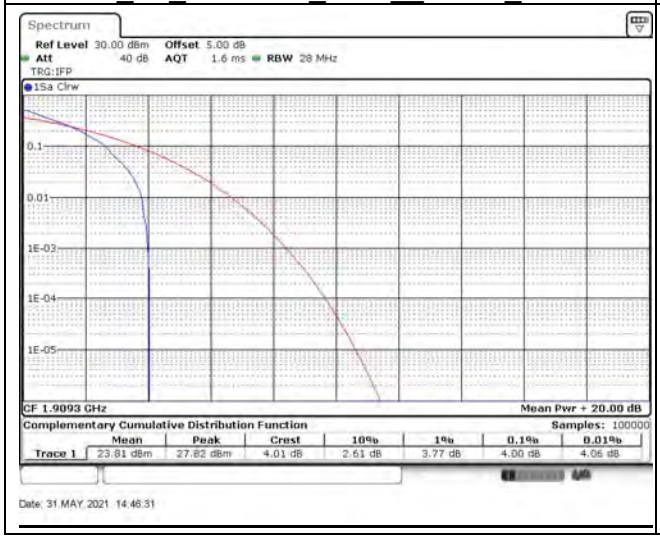

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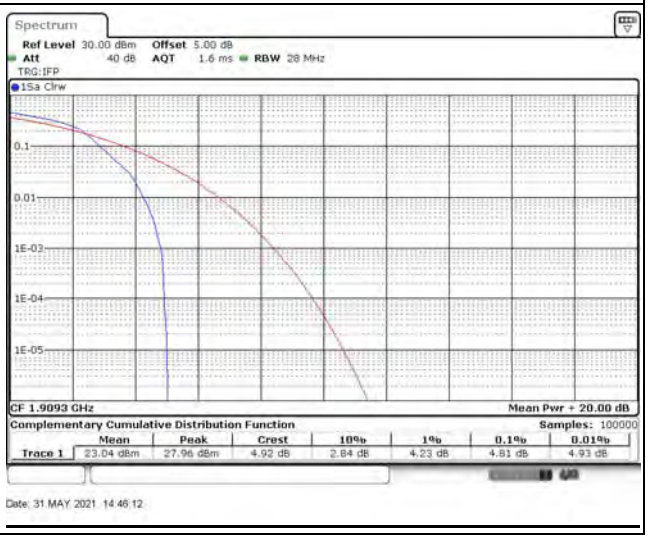

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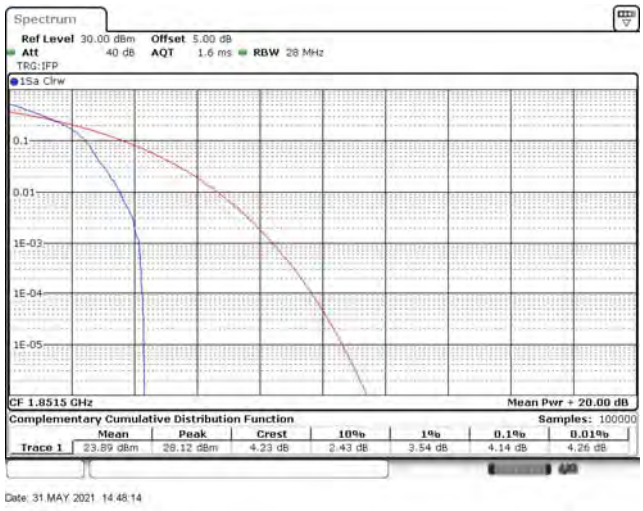

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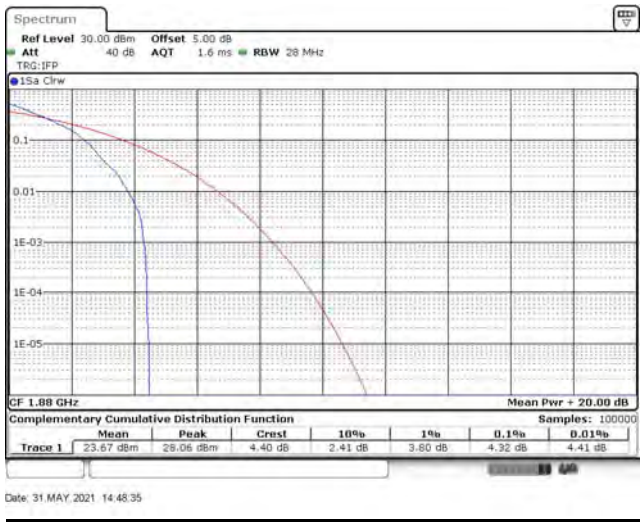

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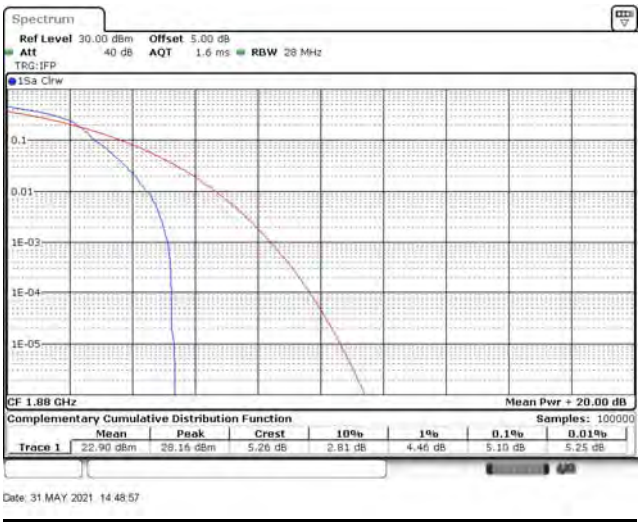

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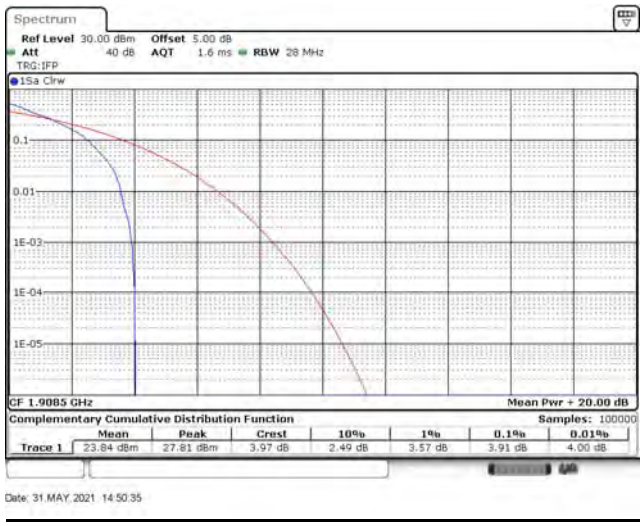

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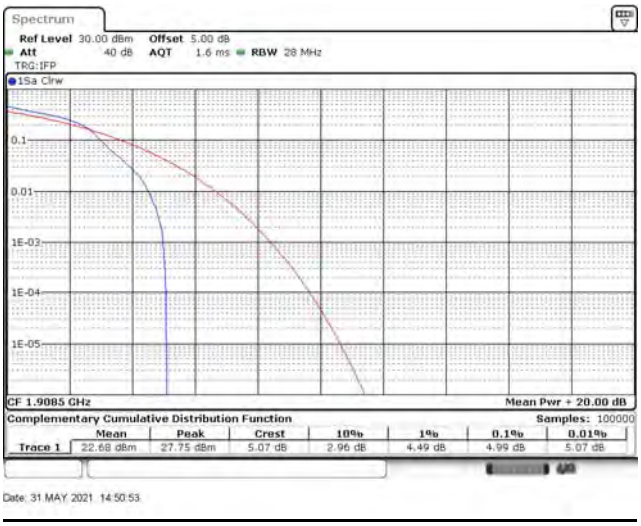

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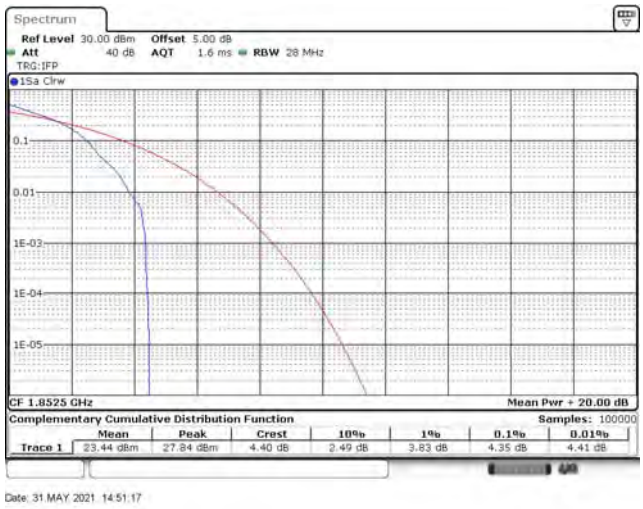

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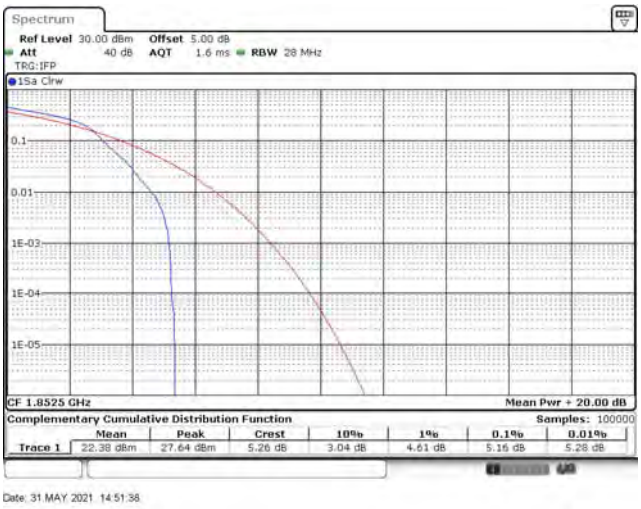

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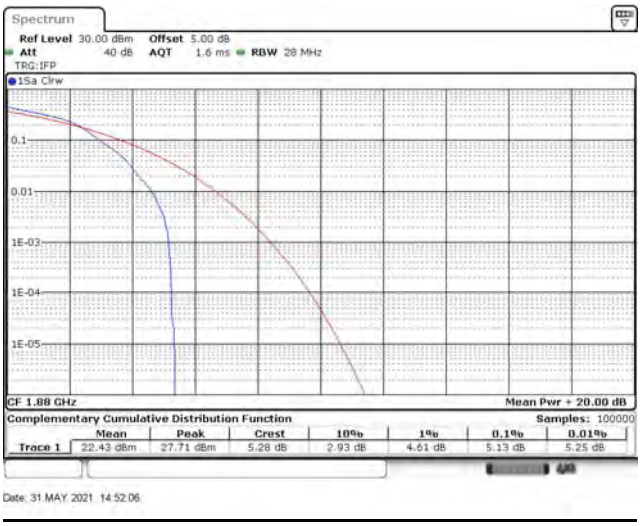

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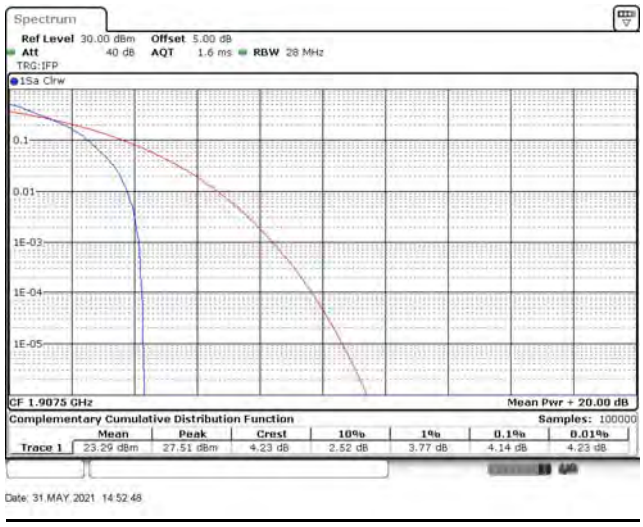

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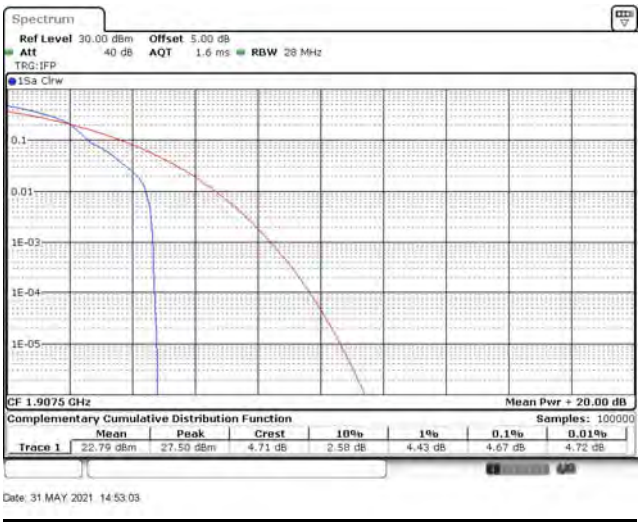

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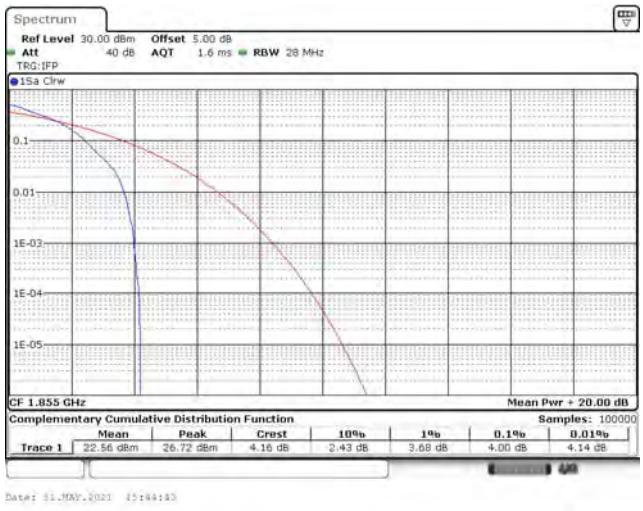

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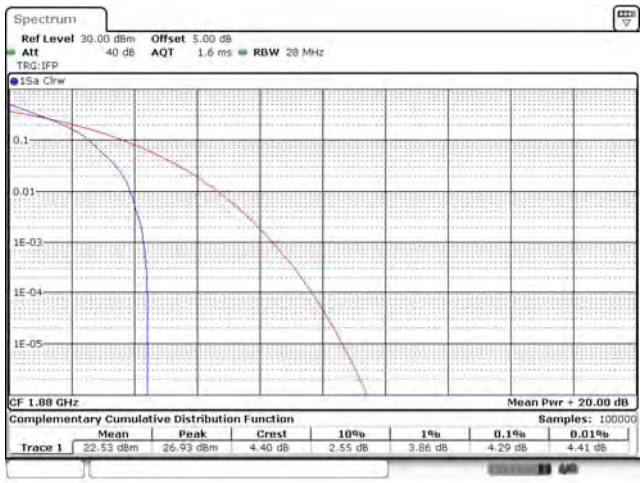

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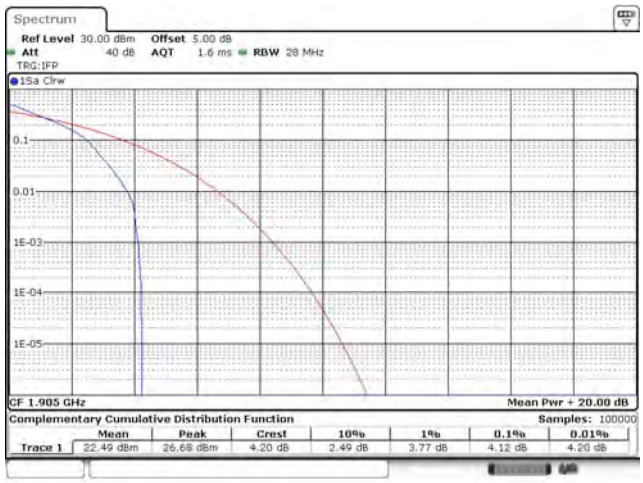

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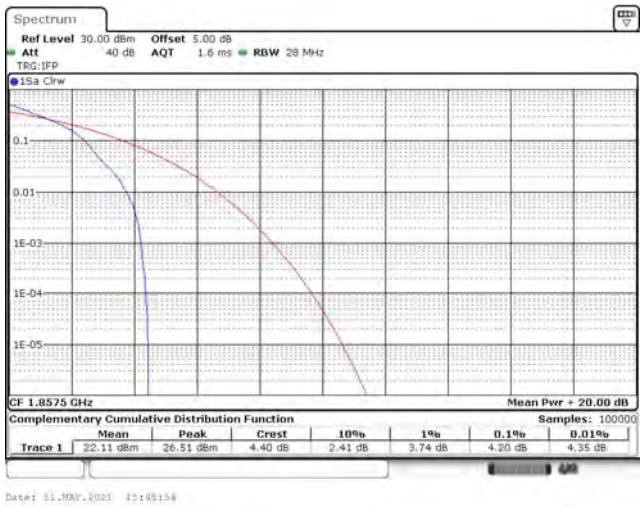

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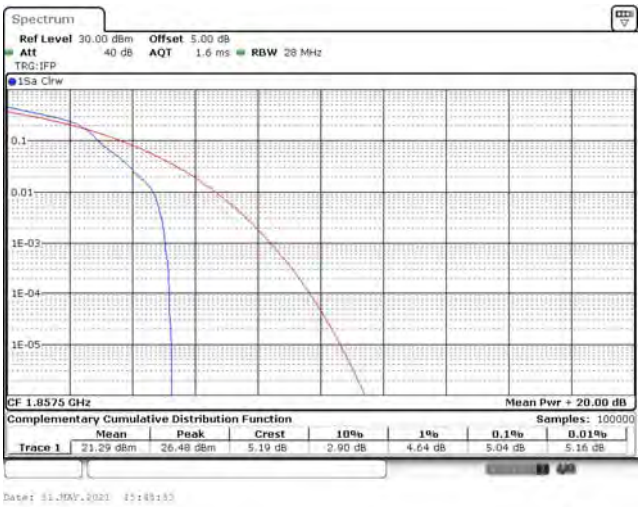

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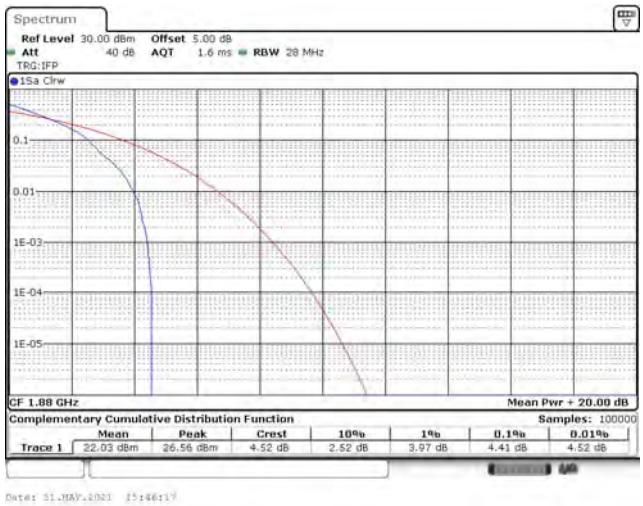

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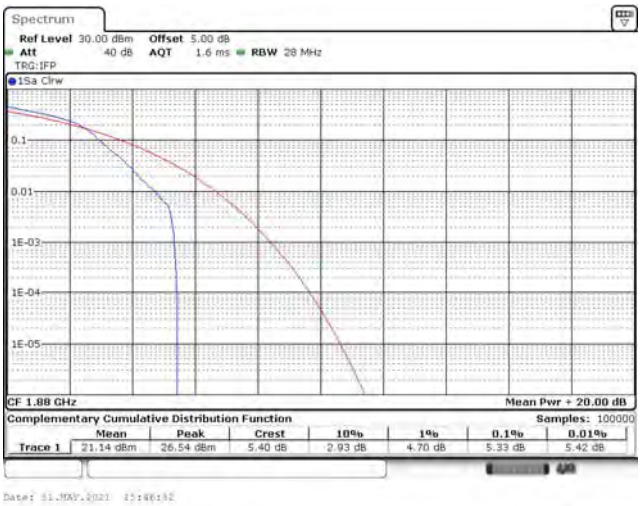

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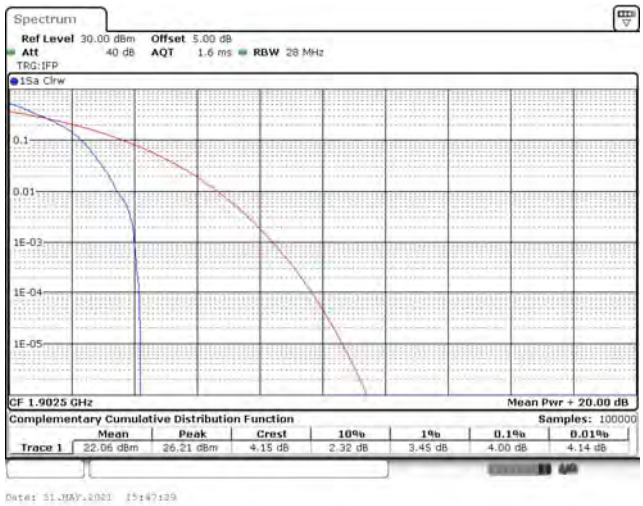

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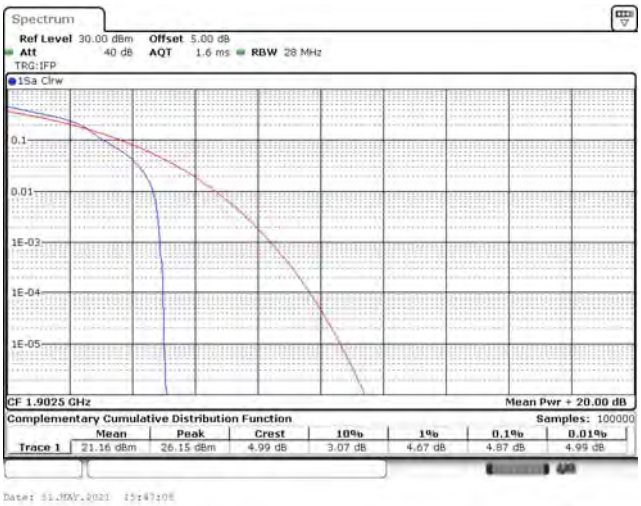

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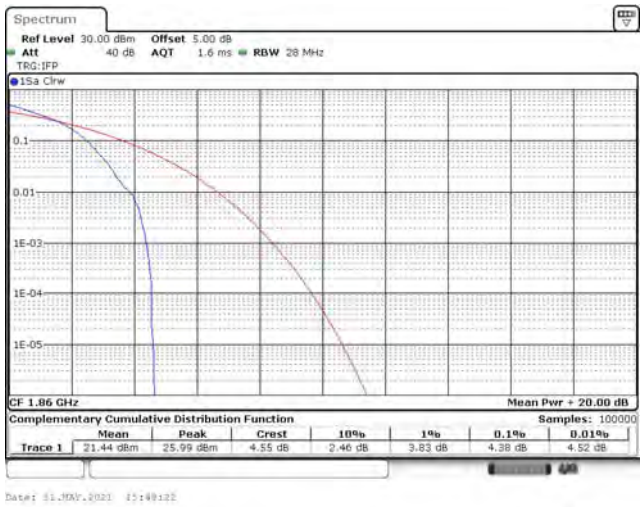

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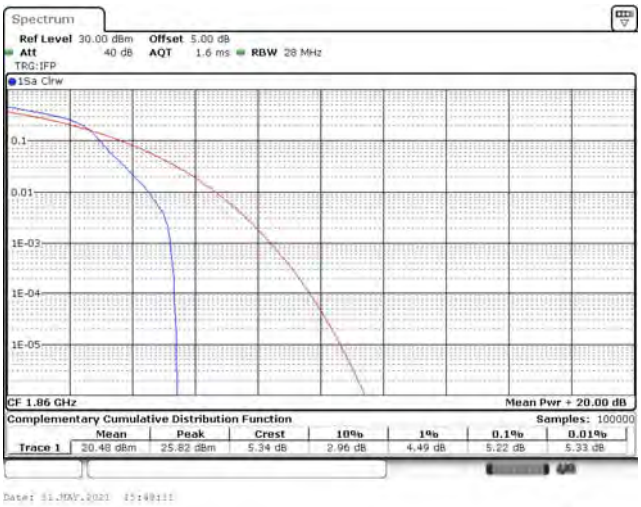

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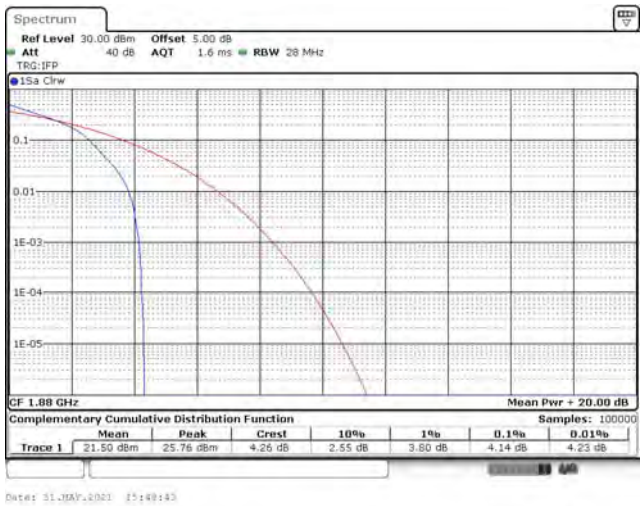

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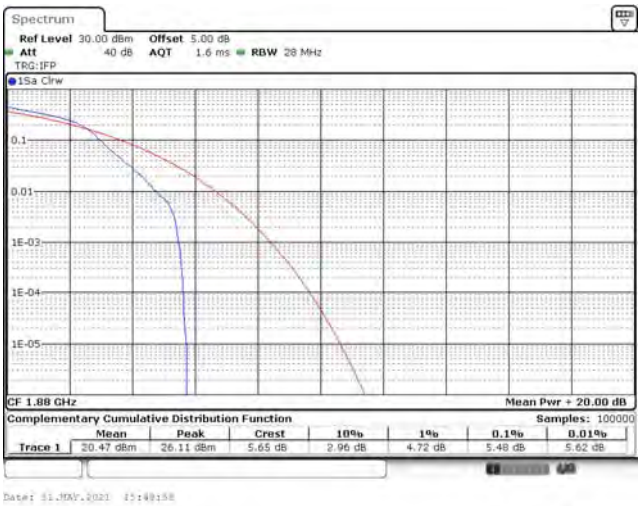

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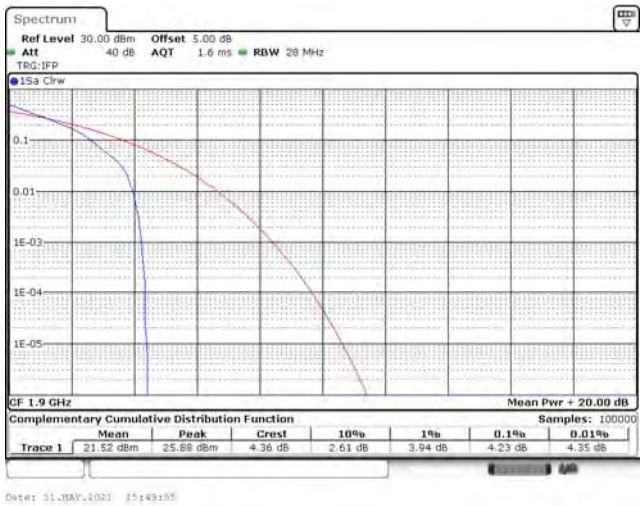

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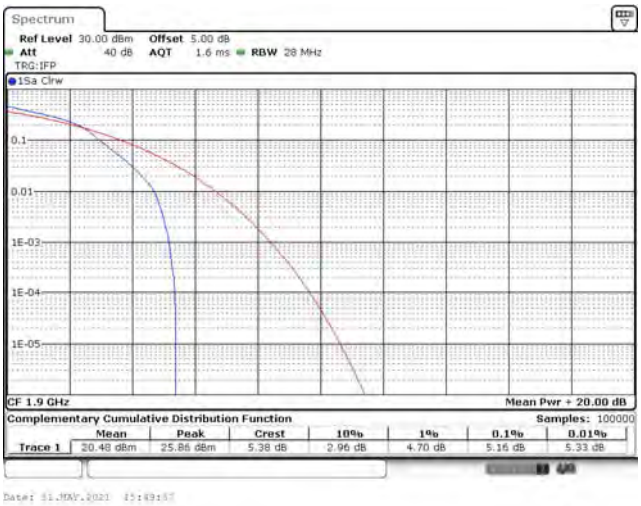
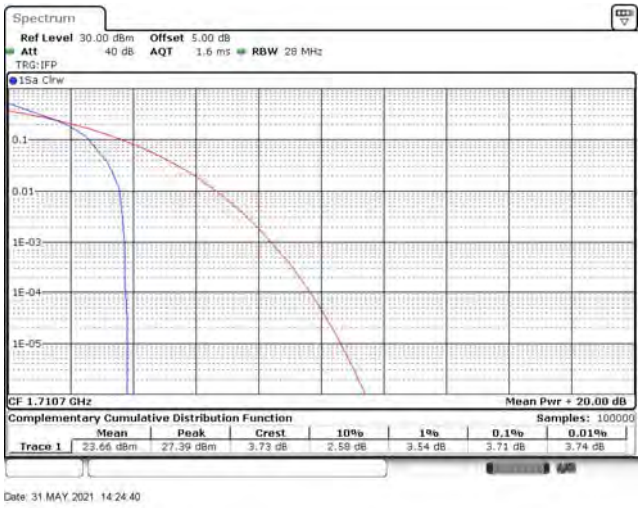


Product Name	WCDMA/LTE Mobile Phone		
Test Mode	Mode 2: LTE Band 4		
Date of Test	2021/05/31	Test Site	SR10-H
Temperature(°C)	25	Humidity (%RH)	58

BW	Ch	Freq. (MHz)	Modulation	Peak (dBm)	Average (dBm)	PAPR (dB)
1.4M	19957	1710.7	QPSK	27.39	23.66	3.71
			16-QAM	27.44	22.82	4.55
	20175	1732.5	QPSK	27.70	23.67	3.86
			16-QAM	27.53	22.58	4.84
	20393	1754.3	QPSK	27.49	23.66	3.74
			16-QAM	27.41	22.62	4.78
3M	19965	1711.5	QPSK	27.37	23.51	3.77
			16-QAM	27.38	22.87	4.41
	20175	1732.5	QPSK	27.51	23.58	3.83
			16-QAM	27.64	22.53	4.99
	20385	1753.5	QPSK	27.43	23.64	3.65
			16-QAM	27.24	22.58	4.52
5M	19975	1712.5	QPSK	27.03	23.11	3.77
			16-QAM	26.95	22.28	4.55
	20175	1732.5	QPSK	27.23	23.06	4.06
			16-QAM	27.11	22.14	4.87
	20375	1752.5	QPSK	27.17	23.16	3.88
			16-QAM	26.94	22.41	4.38
10M	20000	1715	QPSK	26.20	22.45	3.62
			16-QAM	26.02	21.48	4.43
	20175	1732.5	QPSK	26.46	22.34	3.97
			16-QAM	26.51	21.56	4.78
	20350	1750	QPSK	26.34	22.39	3.86
			16-QAM	26.30	21.33	4.81
15M	20025	1717.5	QPSK	26.53	22.42	3.94
			16-QAM	26.15	21.45	4.52
	20175	1732.5	QPSK	26.49	22.36	4.03
			16-QAM	26.40	21.35	4.93
	20325	1747.5	QPSK	26.15	22.34	3.65
			16-QAM	25.97	21.30	4.52
20M	20050	1720	QPSK	25.37	21.31	3.94
			16-QAM	25.25	20.59	4.46
	20175	1732.5	QPSK	25.60	21.30	4.17
			16-QAM	25.67	20.21	5.25
	20300	1745	QPSK	25.31	21.22	3.91
			16-QAM	25.20	20.37	4.67

B4_CH19957_1.4M__QPSK_1RB0



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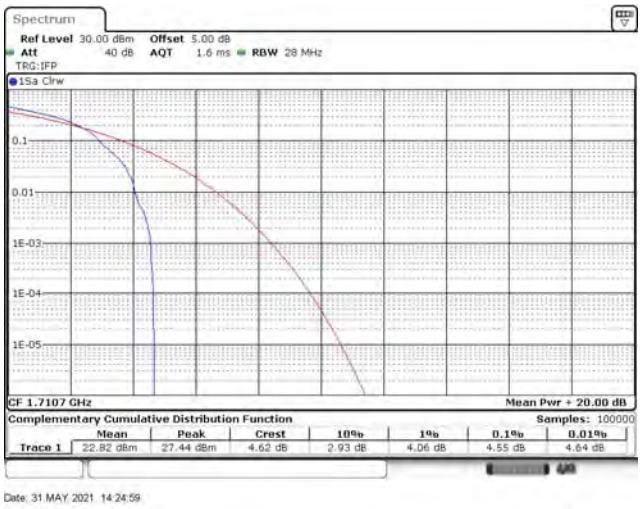

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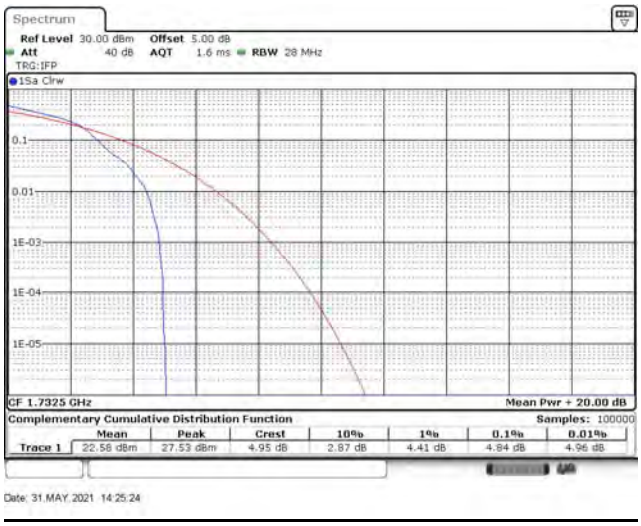

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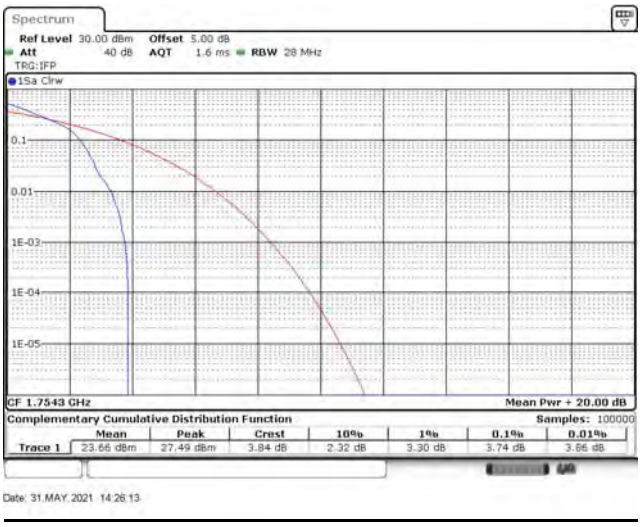

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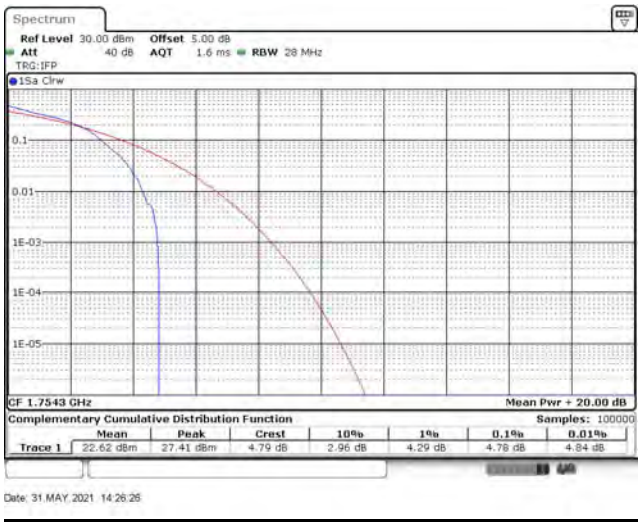

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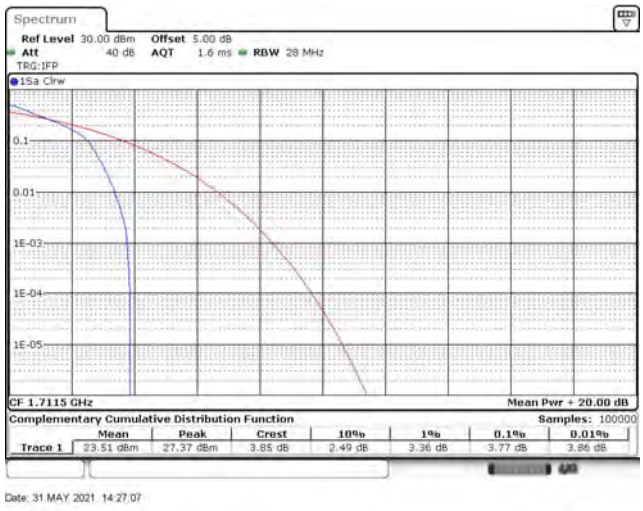

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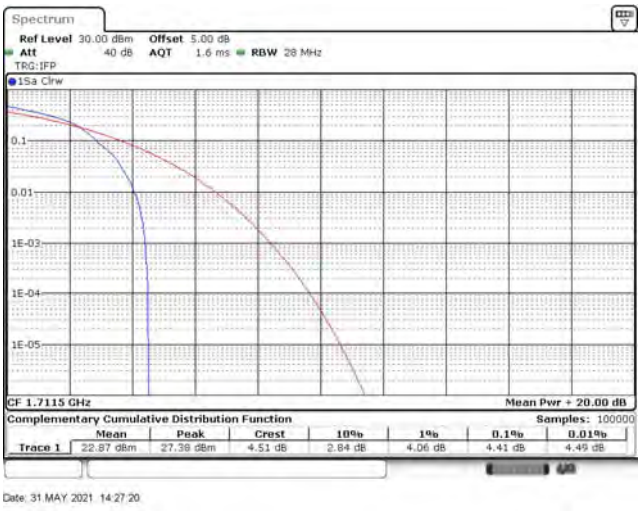

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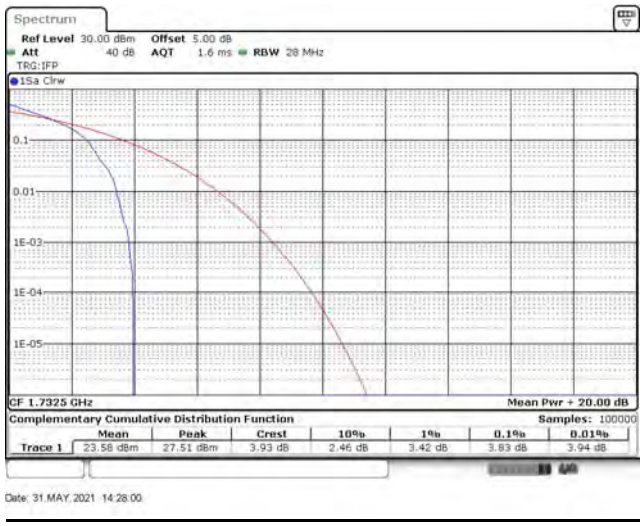

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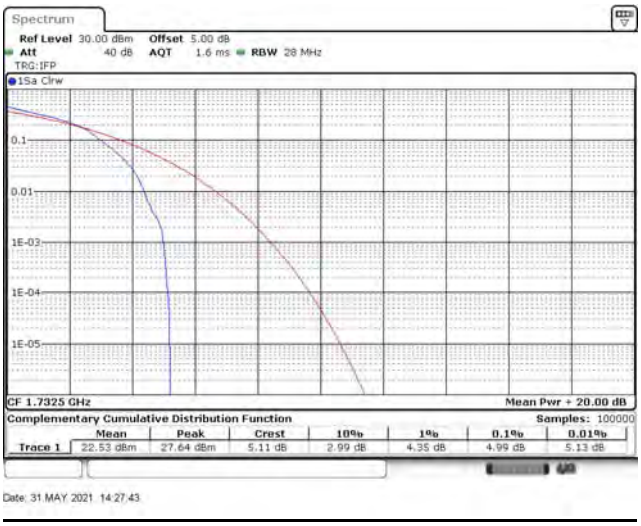

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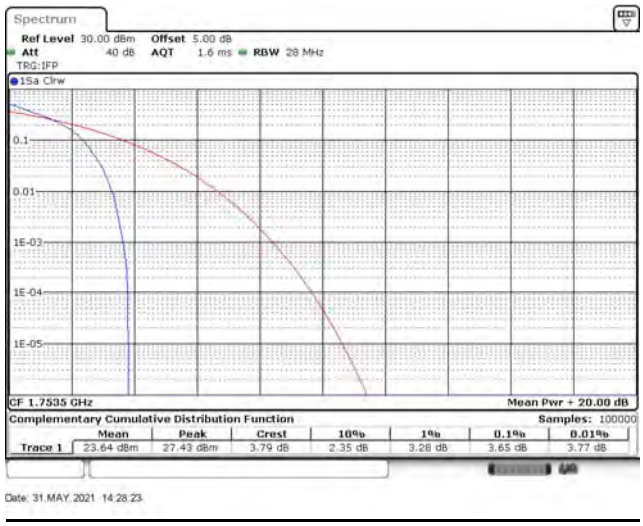

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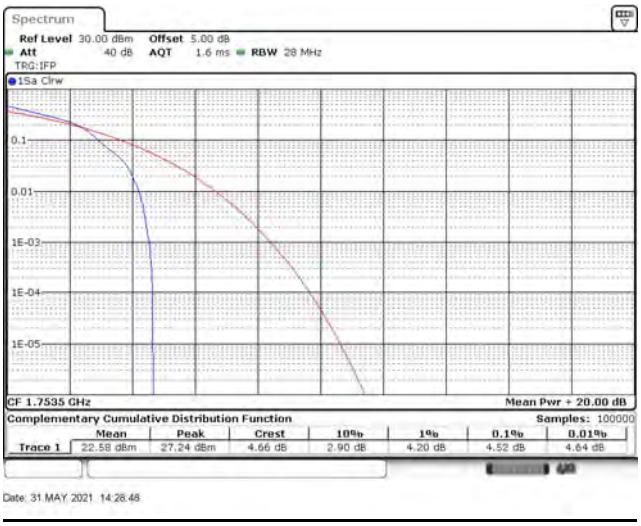

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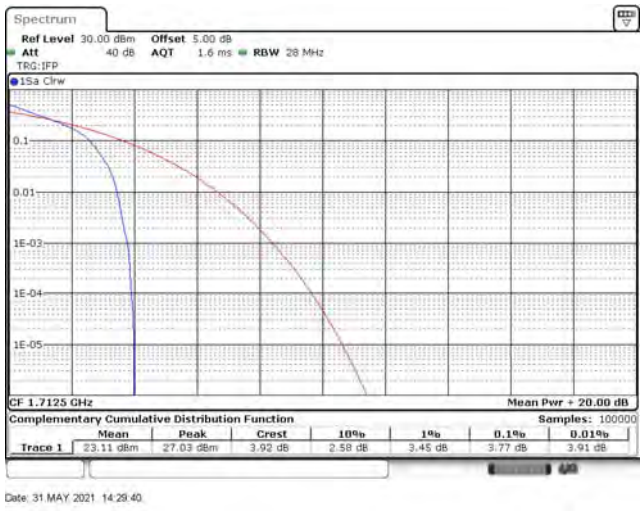

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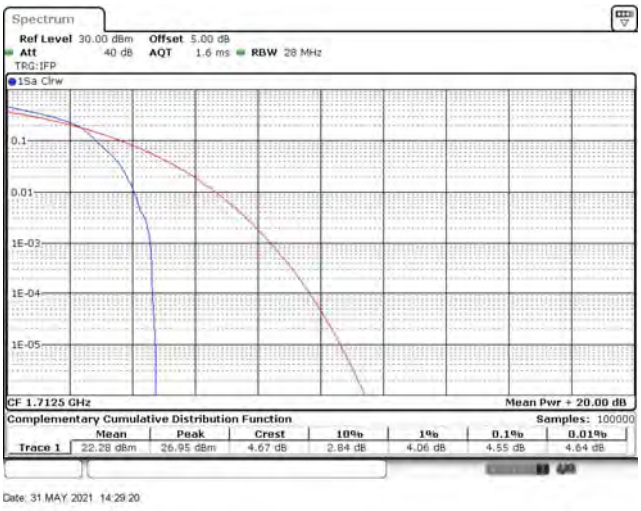

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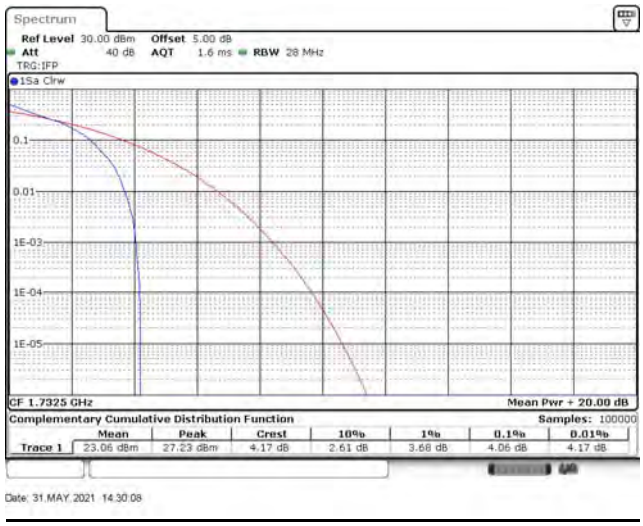

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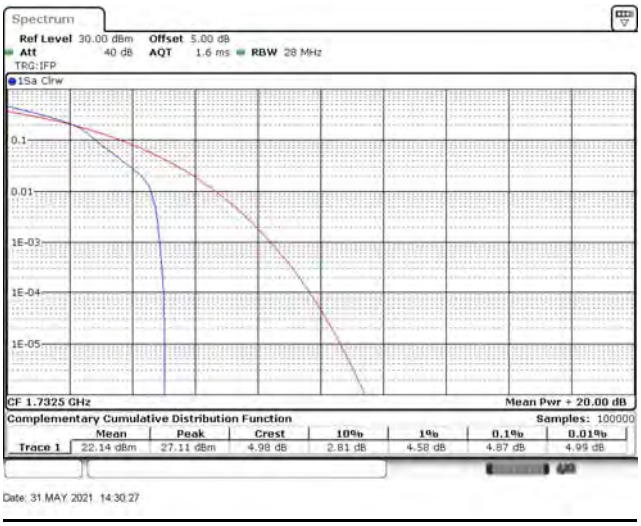

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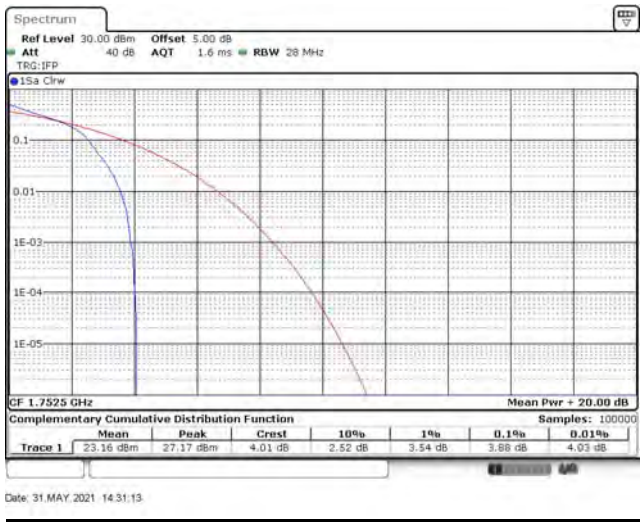

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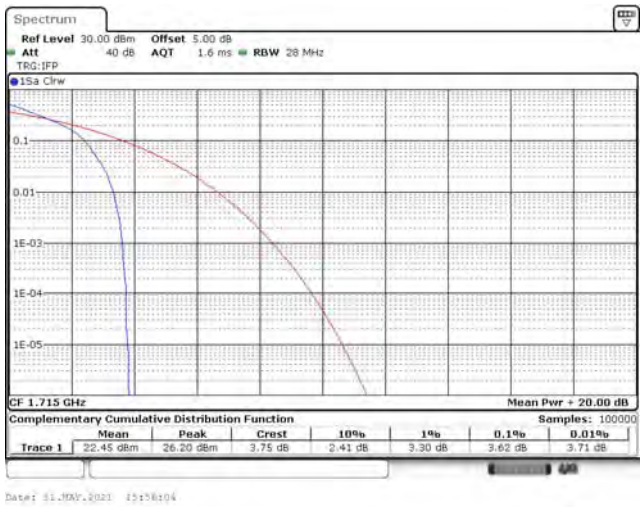

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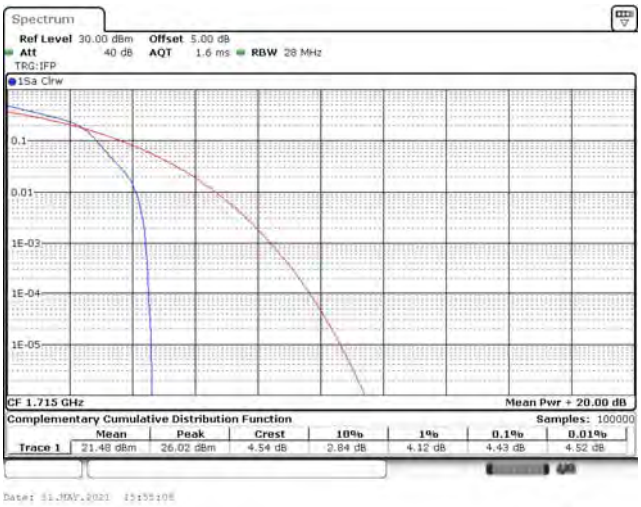

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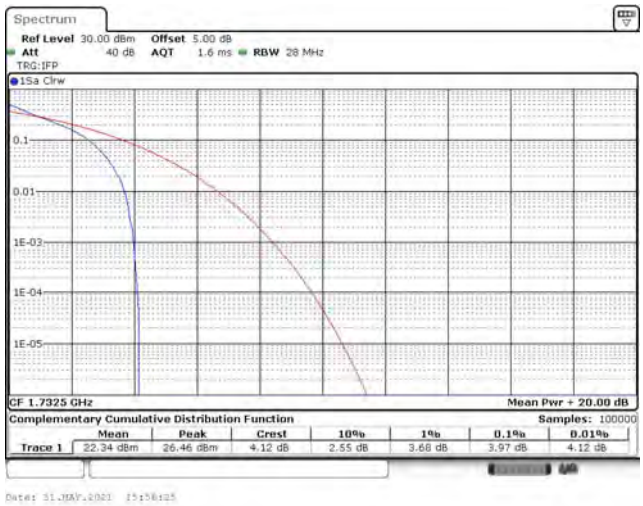

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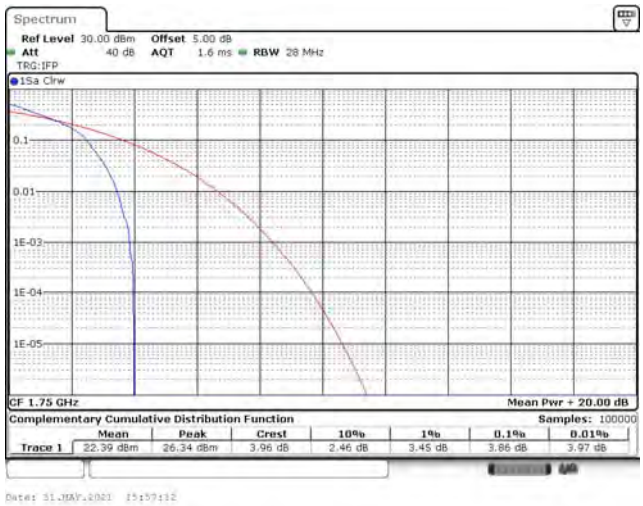

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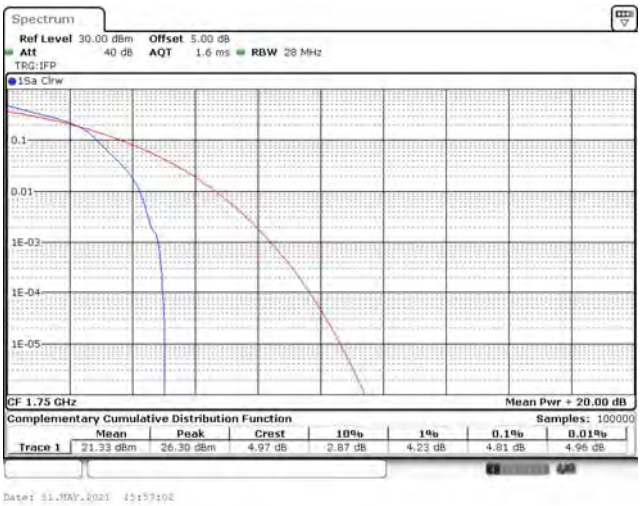

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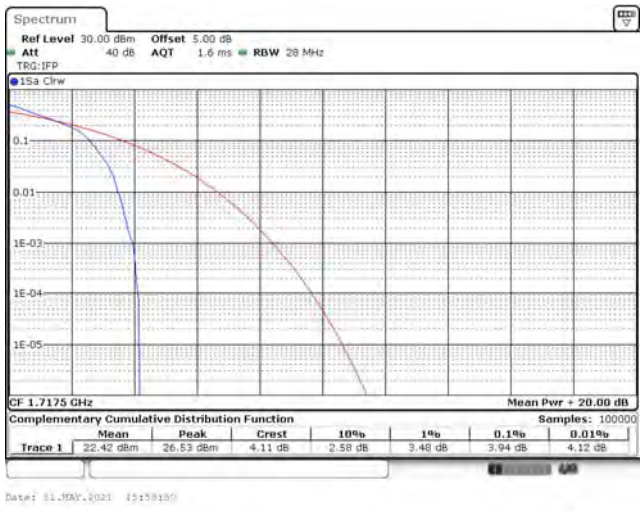

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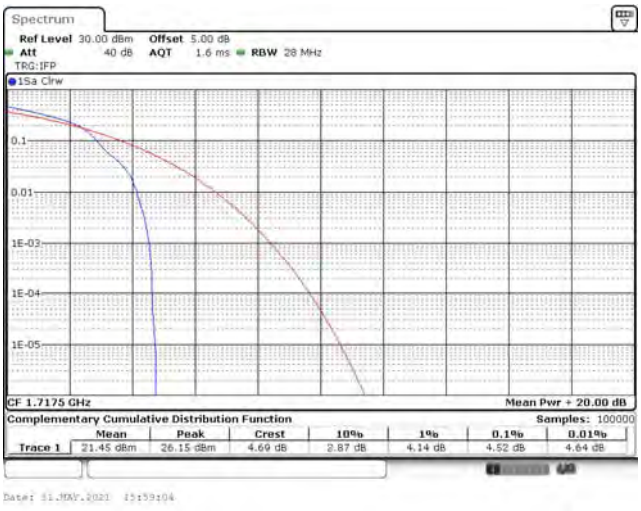

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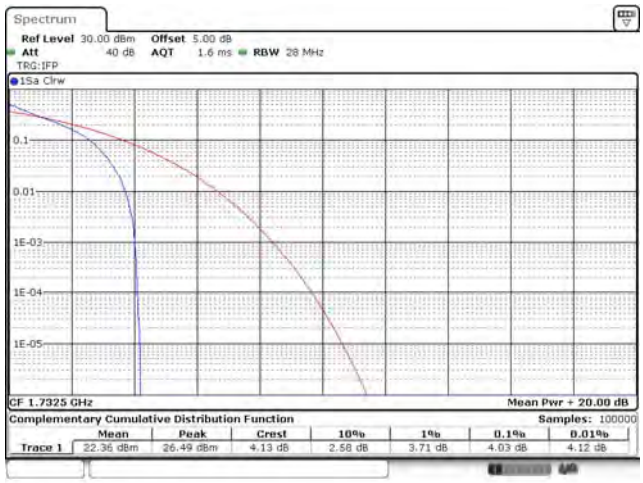

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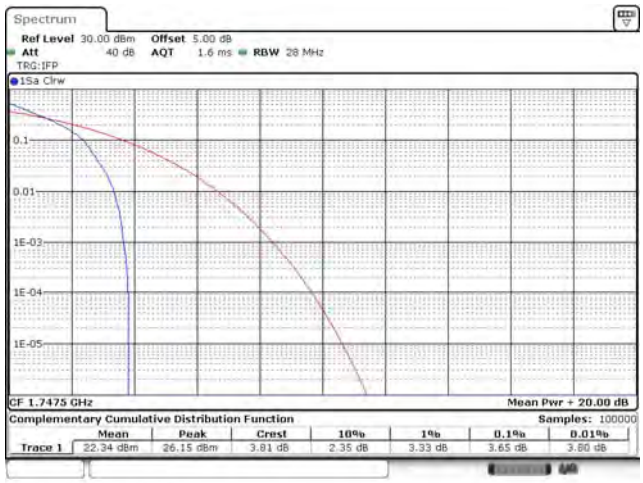

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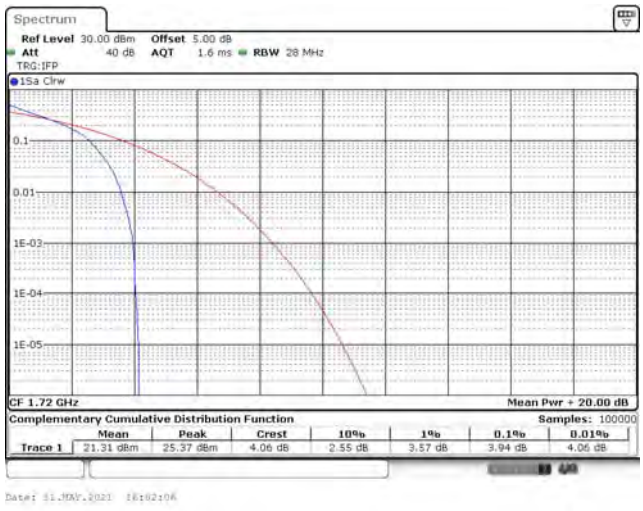

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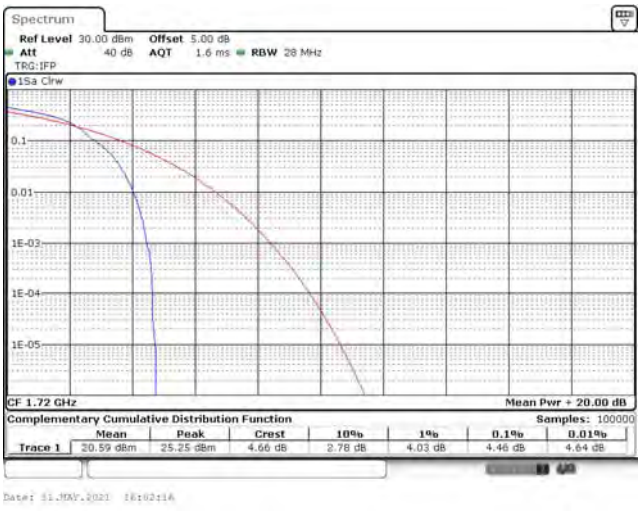

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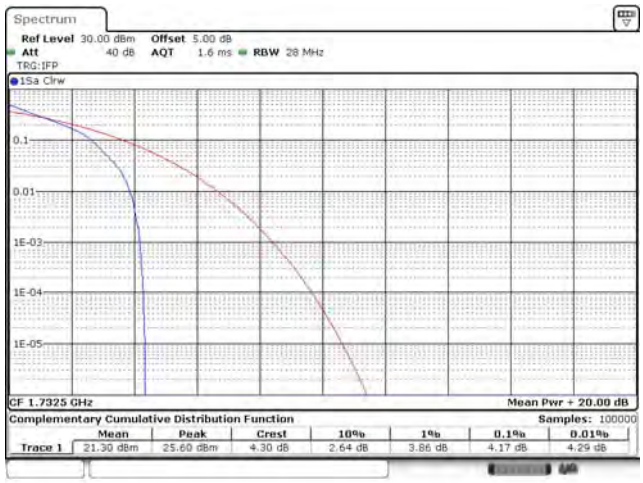

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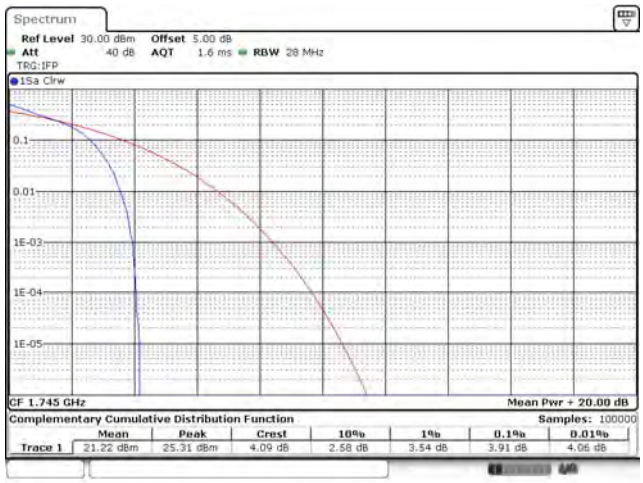

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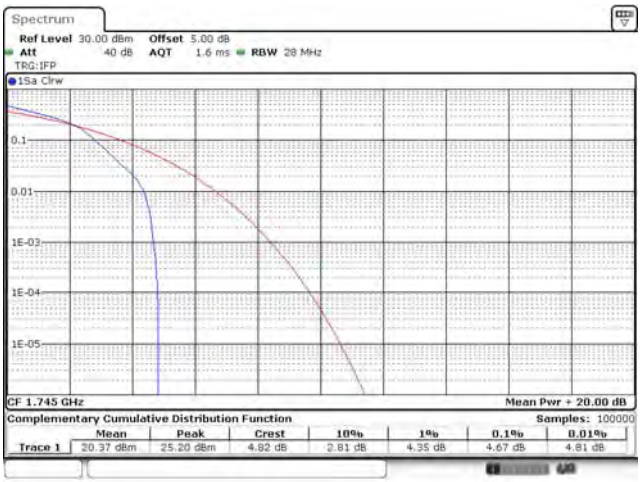
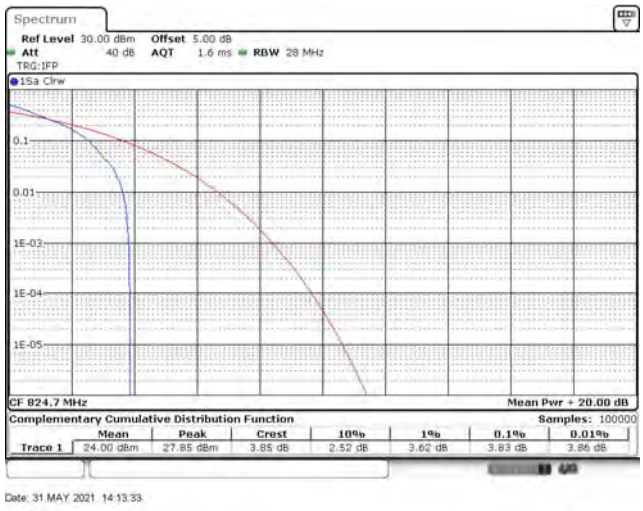


Product Name	WCDMA/LTE Mobile Phone		
Test Mode	Mode 3: LTE Band 5		
Date of Test	2021/05/31	Test Site	SR10-H
Temperature(°C)	25	Humidity (%RH)	58

BW	Ch	Freq. (MHz)	Modulation	Peak (dBm)	Average (dBm)	PAPR (dB)
1.4M	20407	824.7	QPSK	27.85	24.00	3.83
			16-QAM	27.79	23.01	4.72
	20525	836.5	QPSK	28.39	23.96	4.35
			16-QAM	28.17	23.06	5.01
	20643	848.3	QPSK	27.94	23.99	3.91
			16-QAM	28.24	23.09	5.04
3M	20415	825.5	QPSK	27.88	23.93	3.88
			16-QAM	27.84	23.02	4.72
	20525	836.5	QPSK	28.54	23.82	4.52
			16-QAM	28.19	22.90	5.16
	20635	847.5	QPSK	27.99	23.96	3.97
			16-QAM	27.87	22.90	4.90
5M	20425	826.5	QPSK	27.64	23.51	4.00
			16-QAM	27.48	22.71	4.67
	20525	836.5	QPSK	28.16	23.59	4.49
			16-QAM	27.88	22.56	5.19
	20625	846.5	QPSK	27.66	23.51	4.09
			16-QAM	27.47	22.75	4.61
10M	20450	829	QPSK	26.82	22.82	3.86
			16-QAM	26.62	21.82	4.67
	20525	836.5	QPSK	27.38	22.78	4.41
			16-QAM	27.47	21.98	5.30
	20600	844	QPSK	27.10	22.90	4.06
			16-QAM	27.13	21.84	5.16

LTE_B5_CH20407_1.4M__QPSK_1RB0



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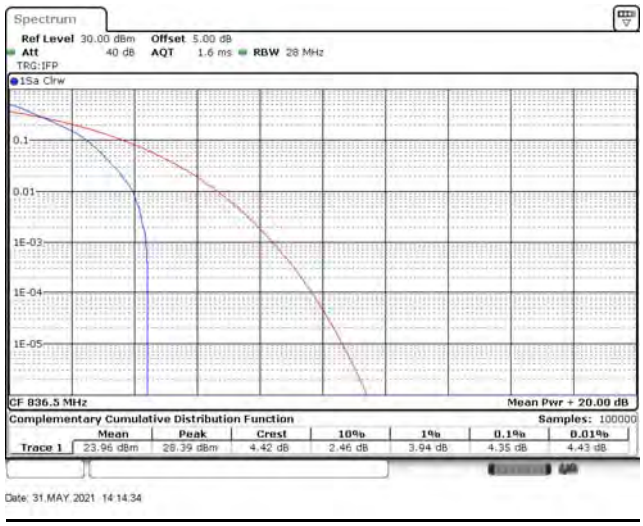

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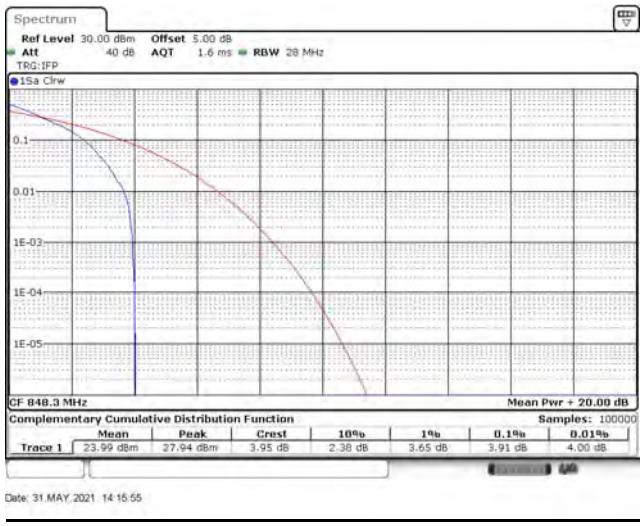

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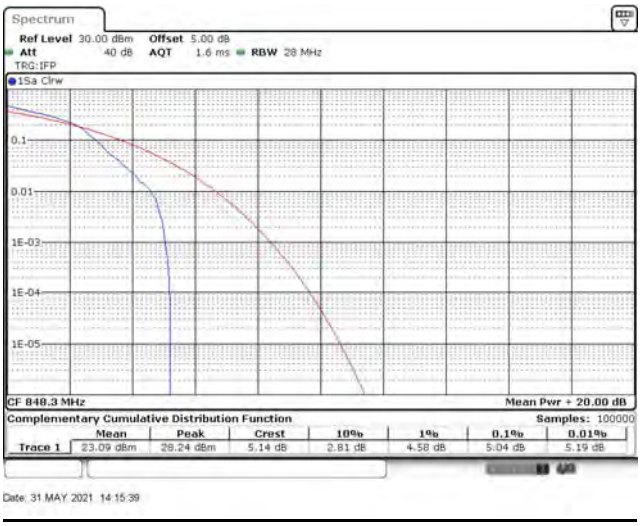

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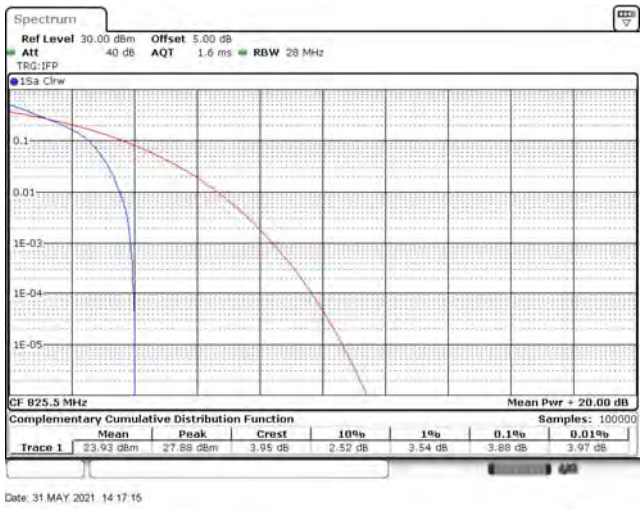

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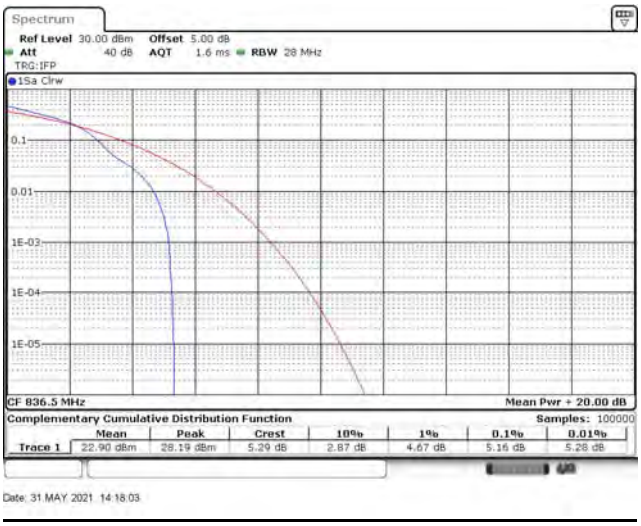

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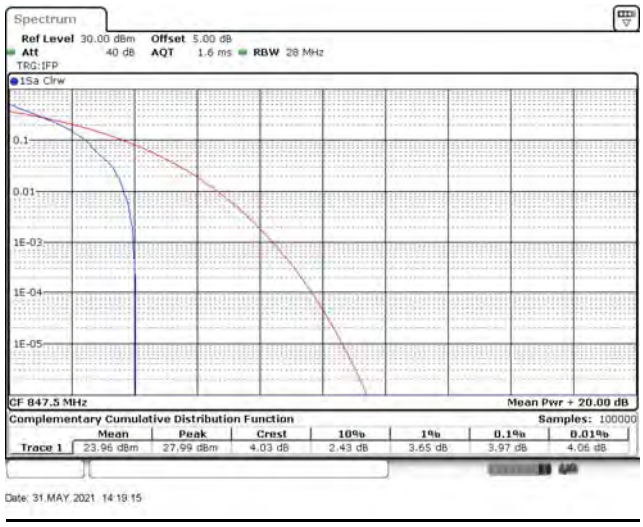

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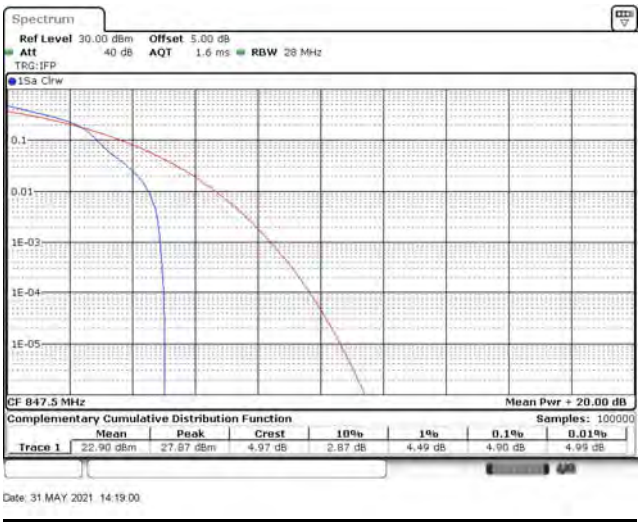

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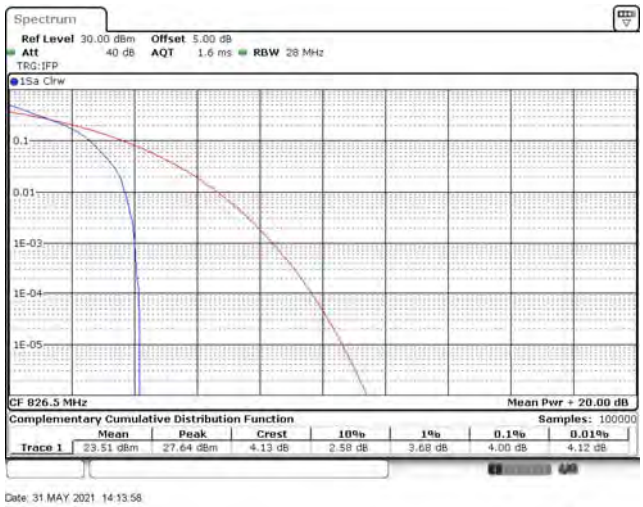

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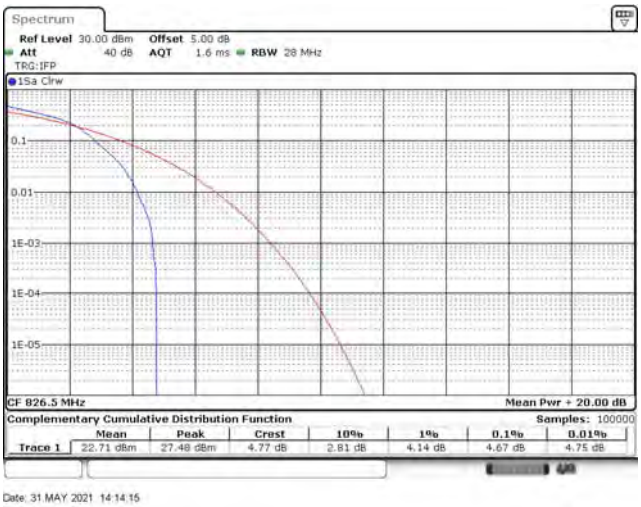

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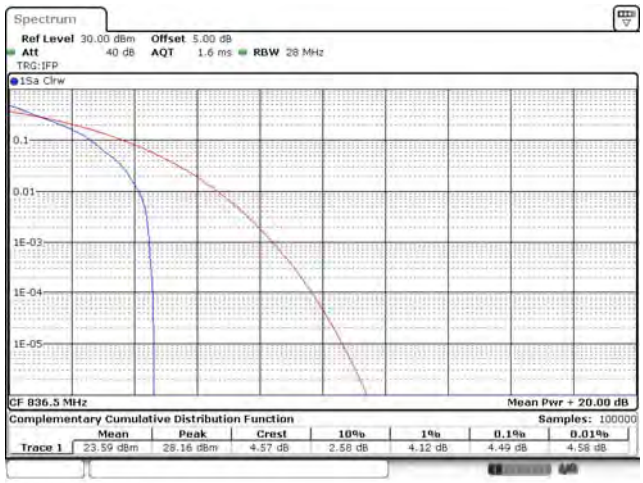

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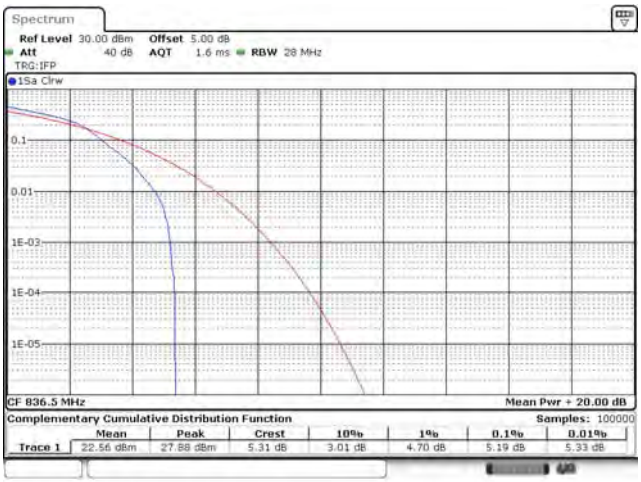

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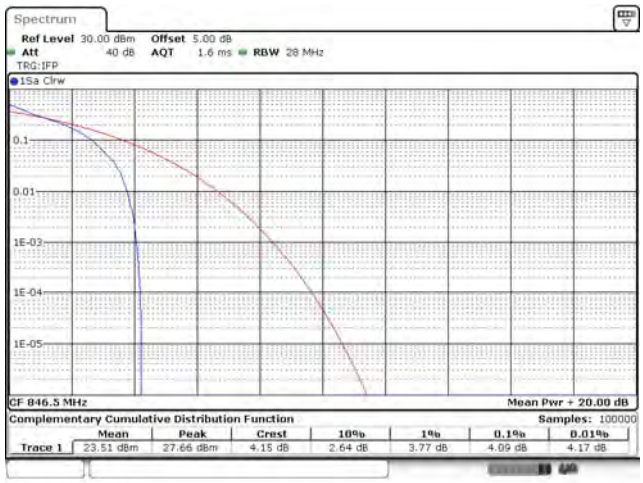

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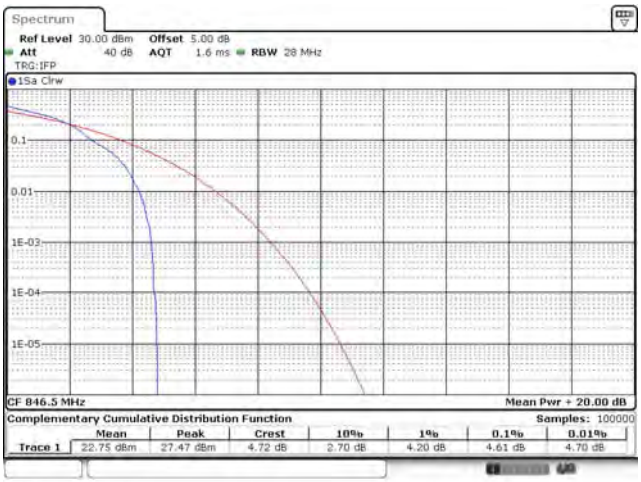

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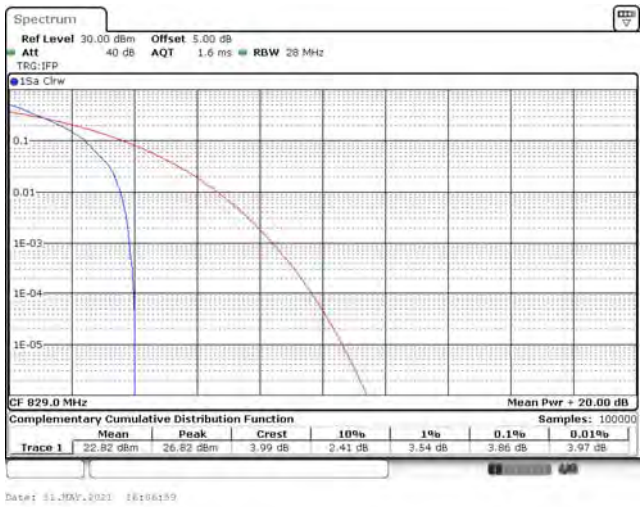

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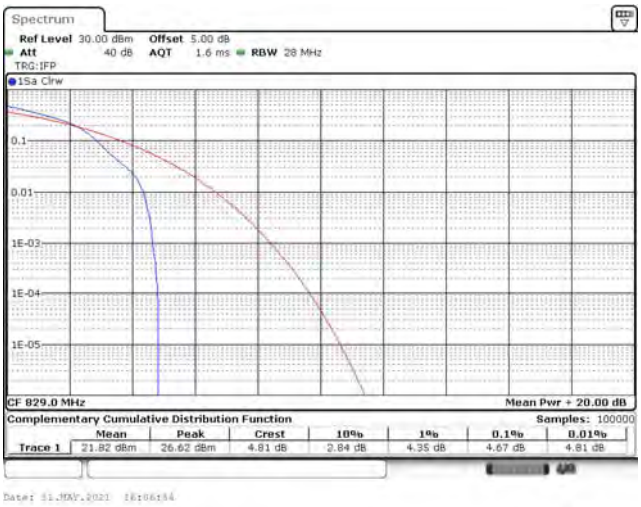

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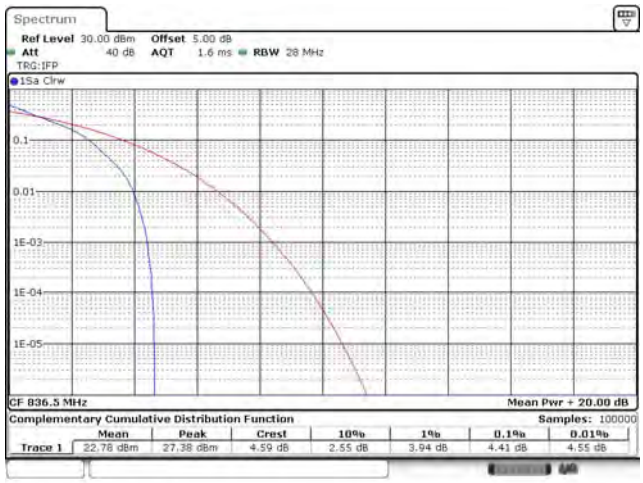

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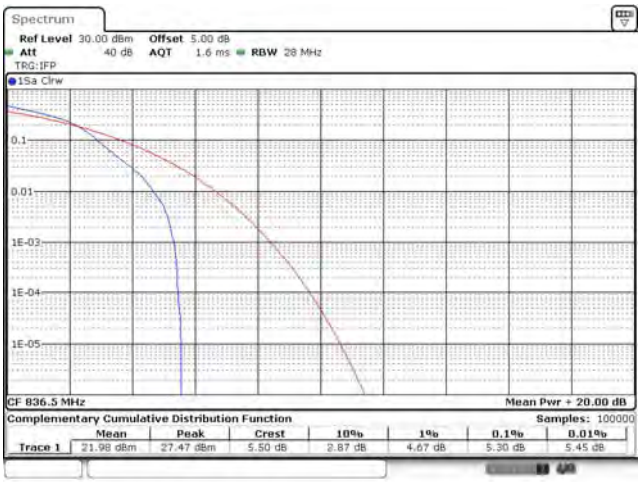

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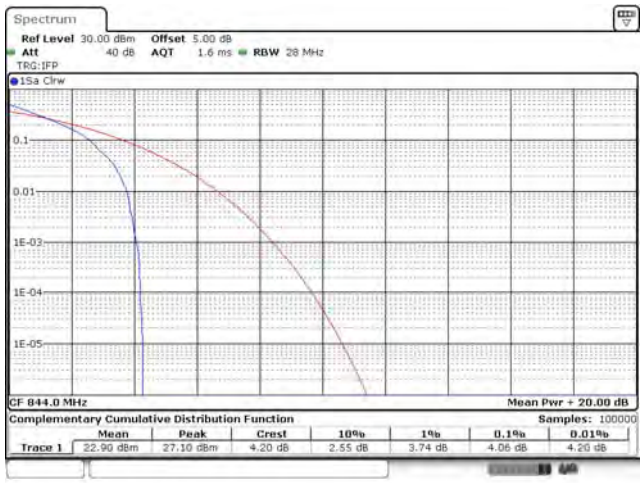

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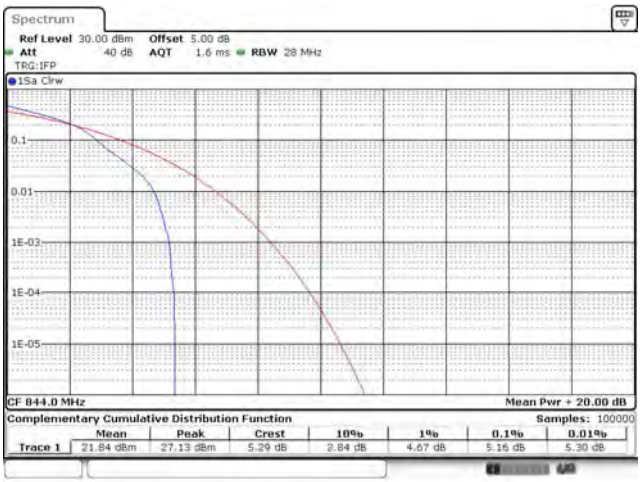
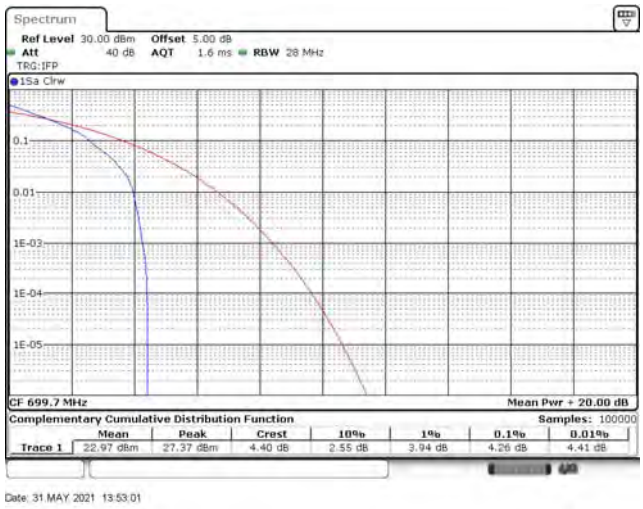


Product Name	WCDMA/LTE Mobile Phone		
Test Mode	Mode 4: LTE Band 12		
Date of Test	2021/05/31	Test Site	SR10-H
Temperature(°C)	25	Humidity (%RH)	58

BW	Ch	Freq. (MHz)	Modulation	Peak (dBm)	Average (dBm)	PAPR (dB)
1.4M	23017	699.7	QPSK	27.37	22.97	4.26
			16-QAM	27.29	22.21	4.93
	23097	707.5	QPSK	27.33	22.98	4.20
			16-QAM	27.40	21.96	5.39
	23173	715.3	QPSK	27.02	22.88	4.06
			16-QAM	26.93	21.97	4.84
3M	23025	700.5	QPSK	27.17	22.84	4.23
			16-QAM	27.13	22.04	5.04
	23095	707.5	QPSK	27.42	22.89	4.38
			16-QAM	27.45	21.88	5.42
	23165	714.5	QPSK	26.98	22.96	3.94
			16-QAM	26.84	22.20	4.55
5M	23035	701.5	QPSK	27.17	22.51	4.55
			16-QAM	26.96	21.66	5.13
	23095	707.5	QPSK	27.09	22.57	4.35
			16-QAM	26.82	21.82	4.81
	23155	713.5	QPSK	26.79	22.53	4.14
			16-QAM	26.67	21.56	4.99
10M	23060	704	QPSK	26.32	21.85	4.35
			16-QAM	26.29	21.25	4.93
	23095	707.5	QPSK	26.31	21.82	4.35
			16-QAM	25.97	20.99	4.78
	23130	711	QPSK	25.96	21.86	3.97
			16-QAM	25.89	20.86	4.90

LTE_B12_CH23017_1.4M__QPSK_1RB0



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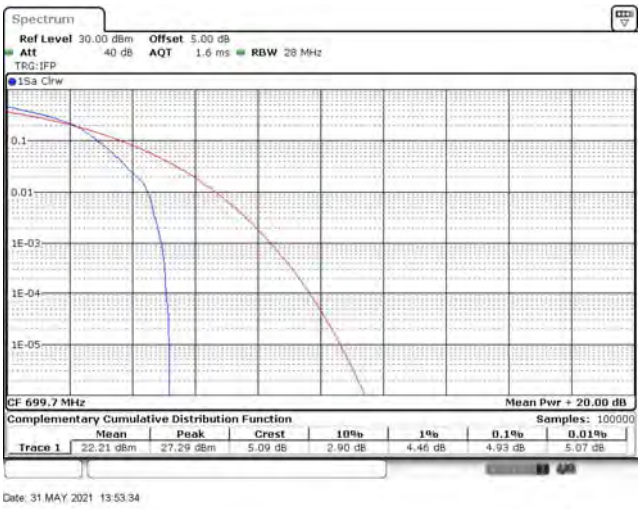

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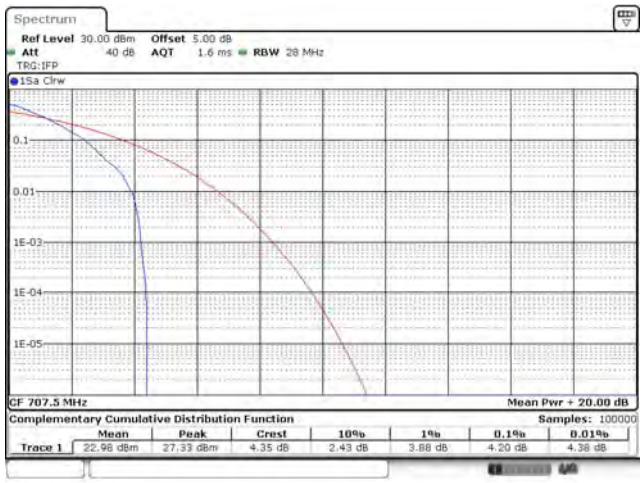

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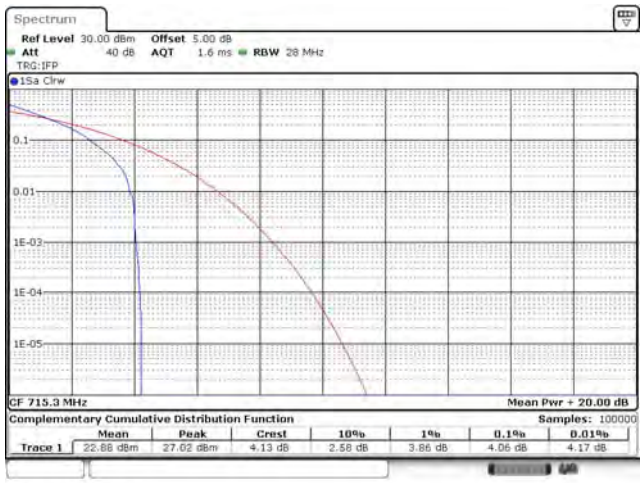
LTE_B12_CH23173_1.4M__QPSK_1RB5



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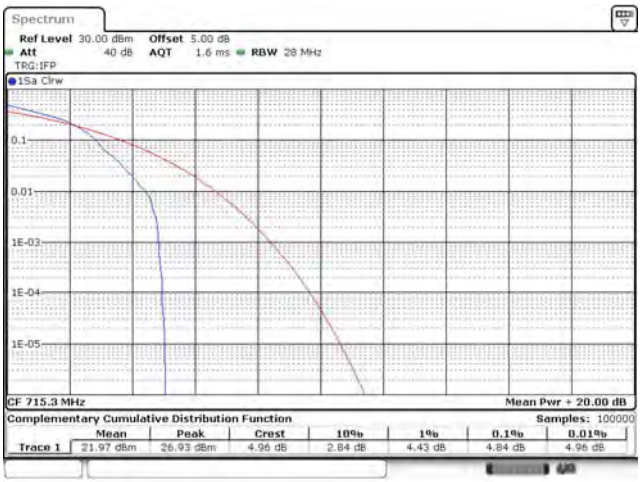

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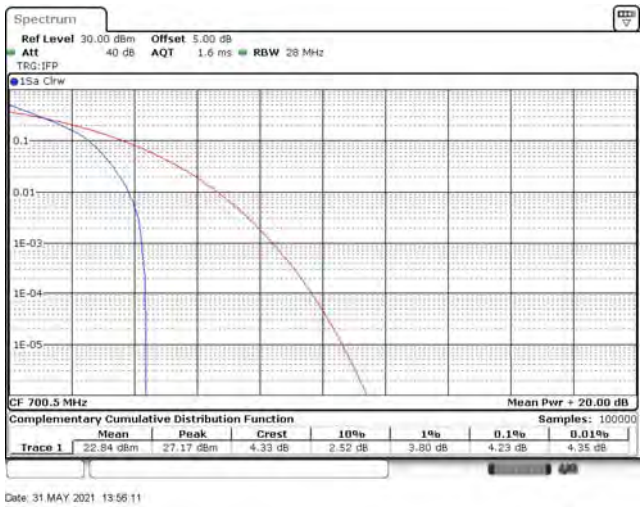

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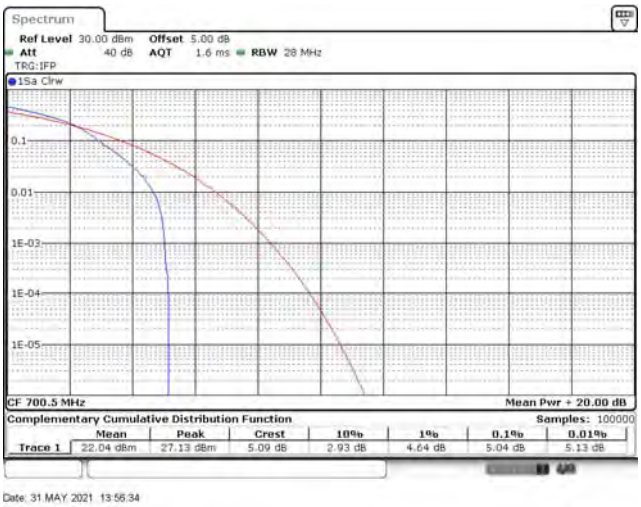

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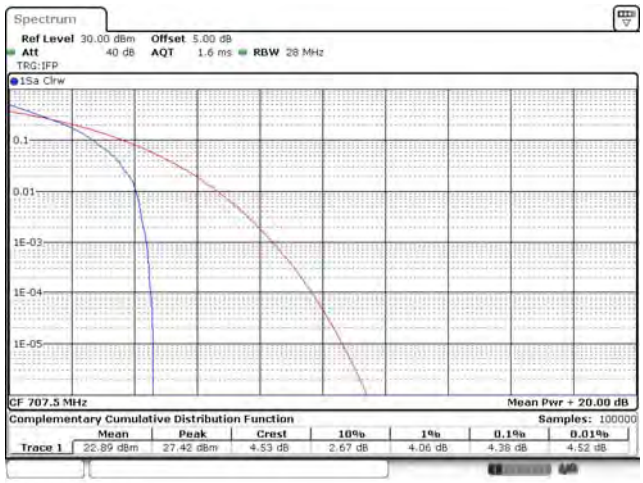

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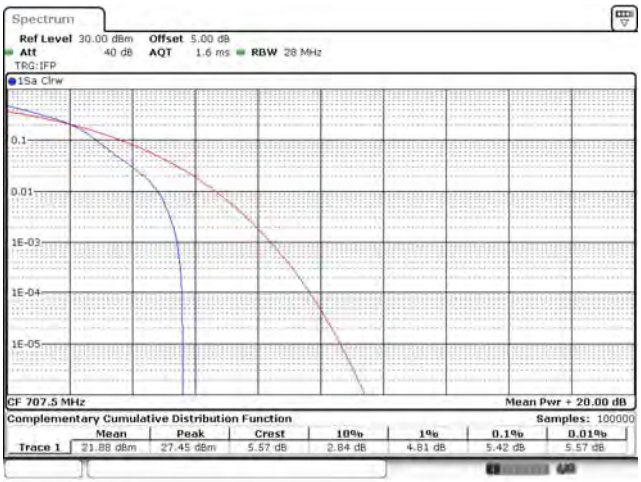

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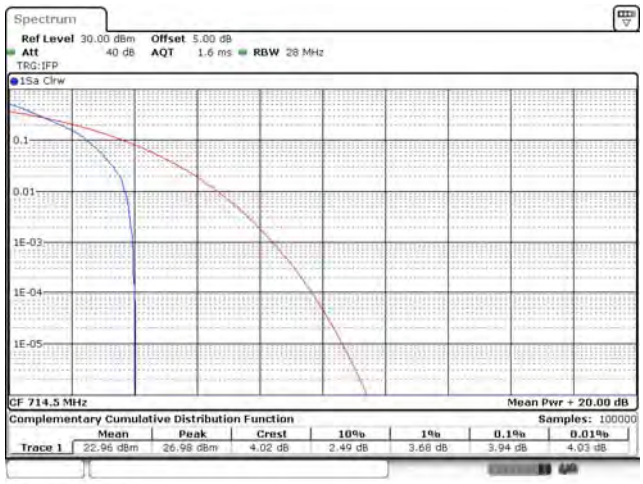

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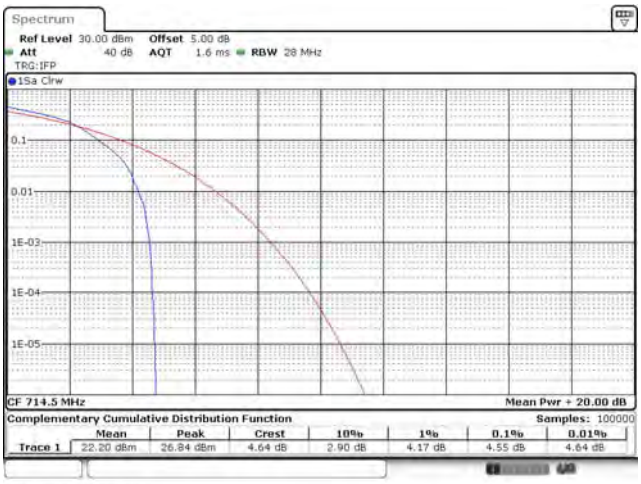

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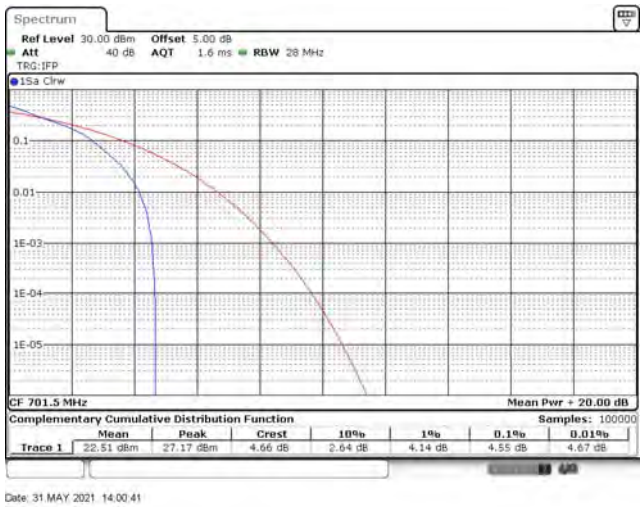

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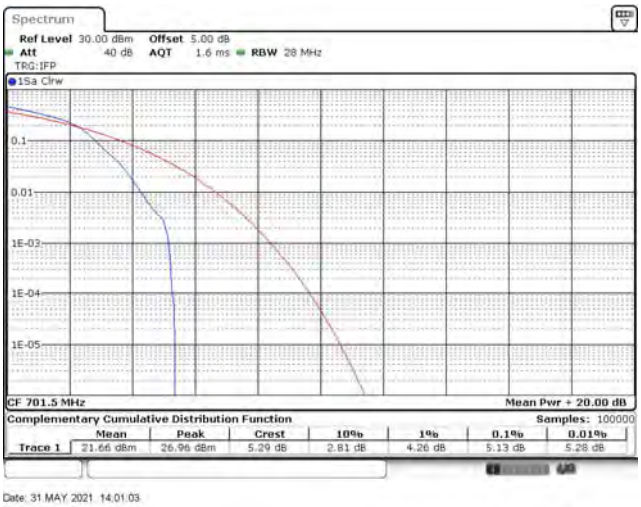

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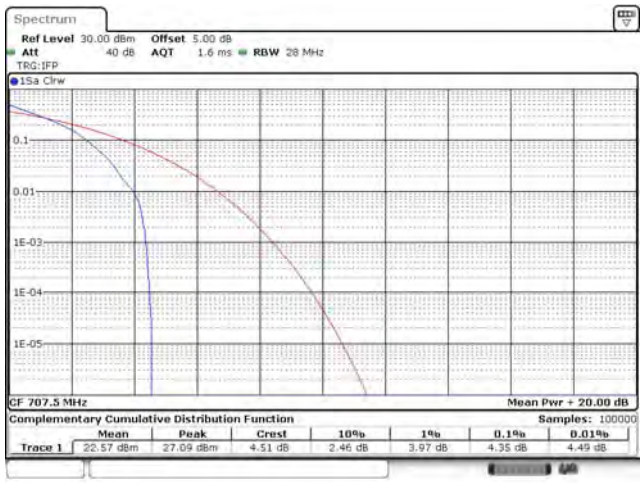

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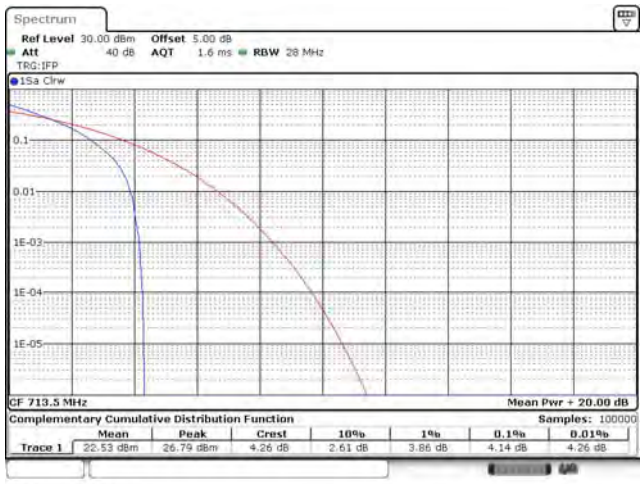

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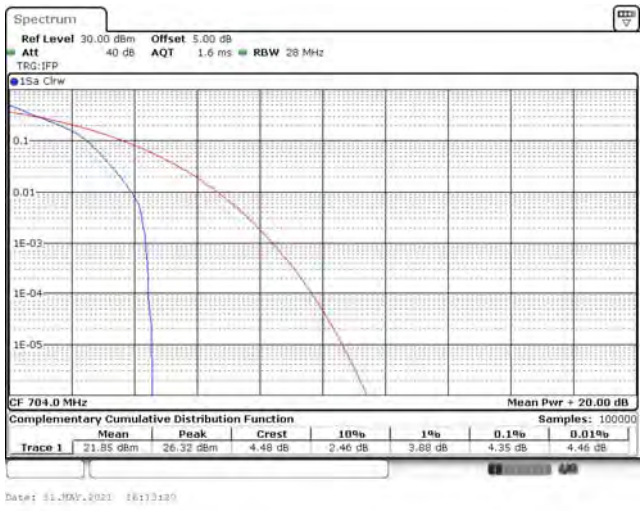

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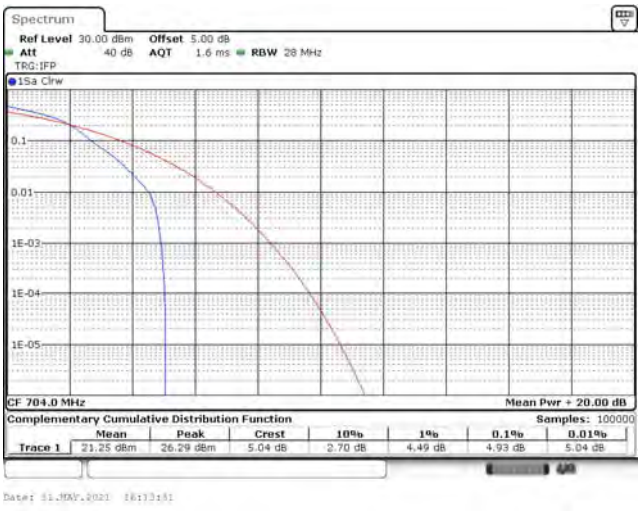

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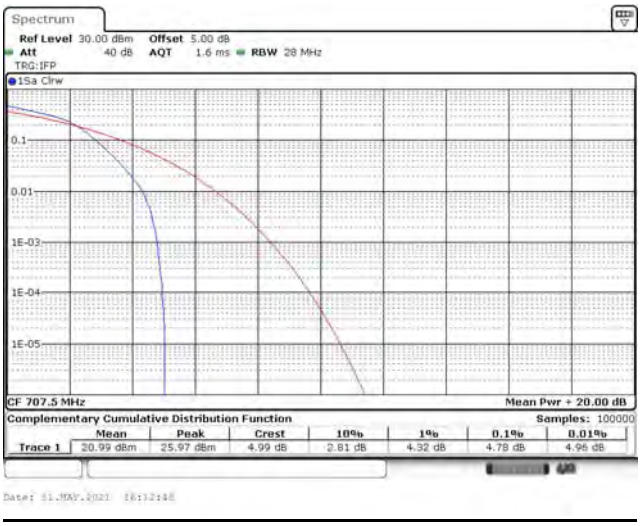

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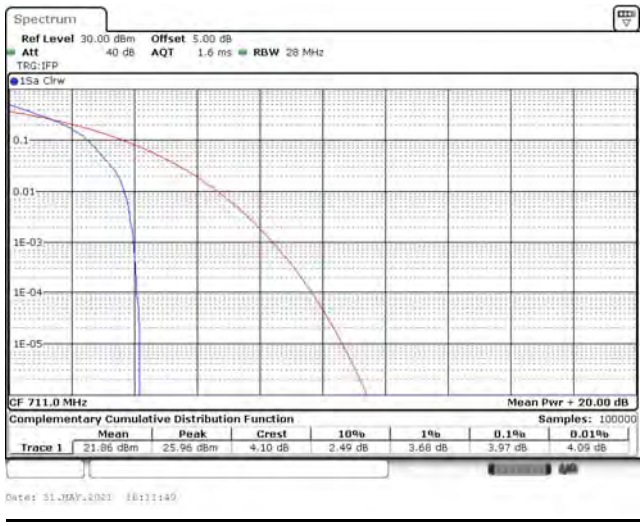

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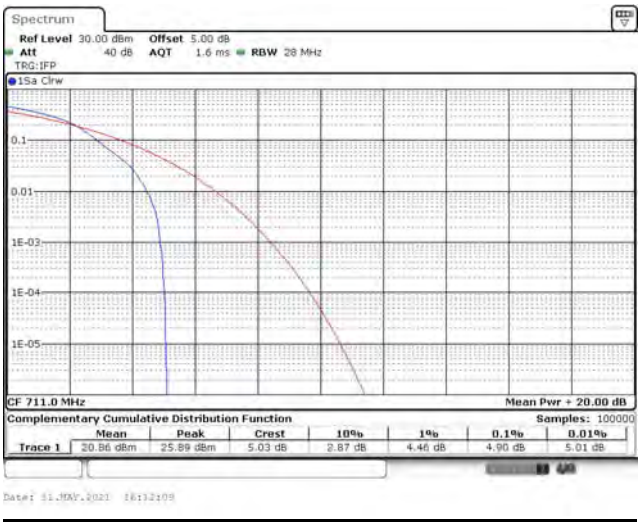
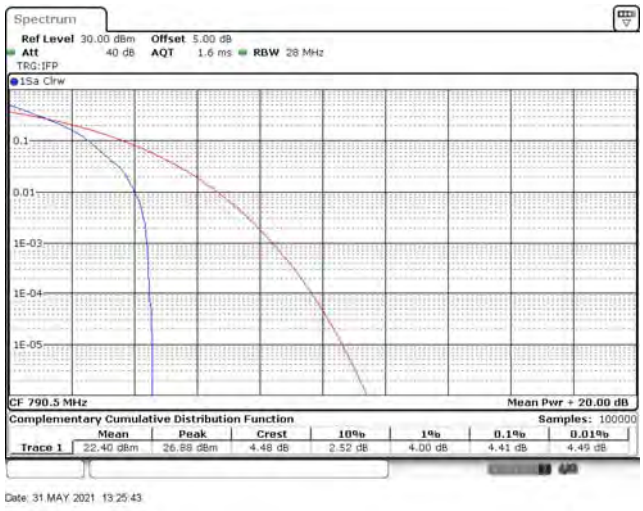


Product Name	WCDMA/LTE Mobile Phone		
Test Mode	Mode 5: LTE Band 14		
Date of Test	2021/05/31	Test Site	SR10-H
Temperature(°C)	25	Humidity (%RH)	58

BW	Ch	Freq. (MHz)	Modulation	Peak (dBm)	Average (dBm)	PAPR (dB)
5M	23305	790.5	QPSK	26.88	22.40	4.41
			16-QAM	26.80	21.47	5.07
	23330	793	QPSK	27.13	22.51	4.46
			16-QAM	27.00	21.53	5.19
	23355	795.5	QPSK	27.52	22.53	4.78
			16-QAM	27.18	21.81	5.07
10M	23330	793	QPSK	26.47	21.76	4.52
			16-QAM	26.42	21.15	5.04

LTE_B14_CH23305_5M__QPSK_1RB0



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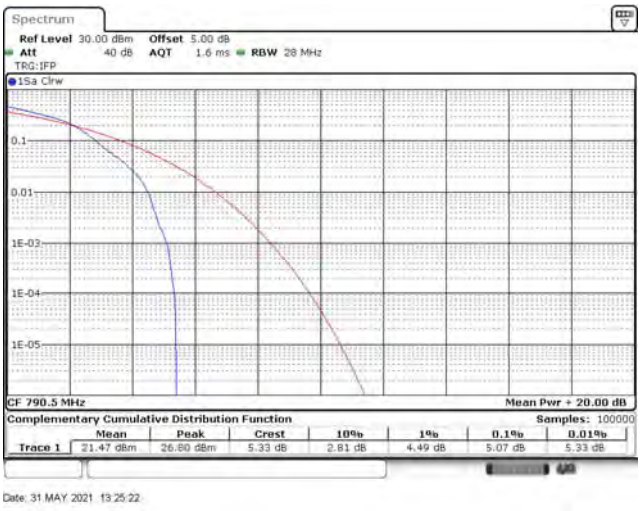

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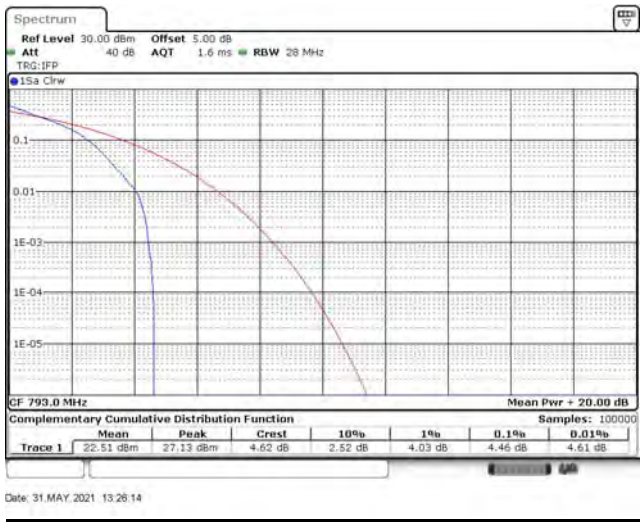

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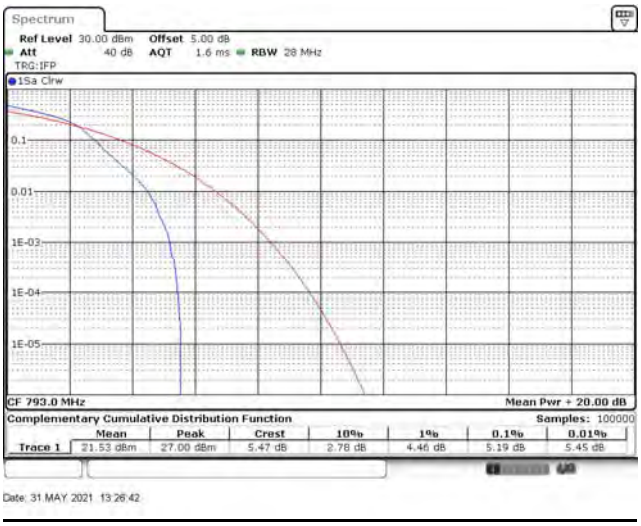

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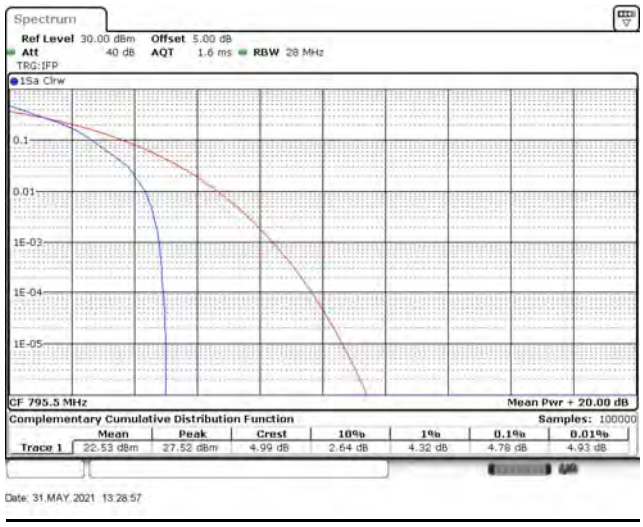

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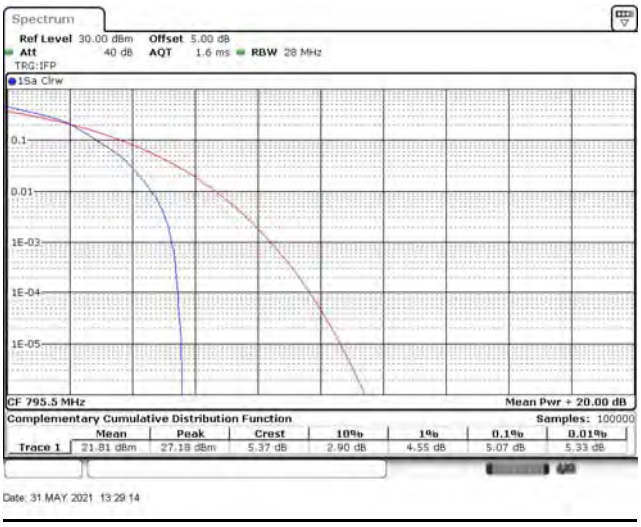

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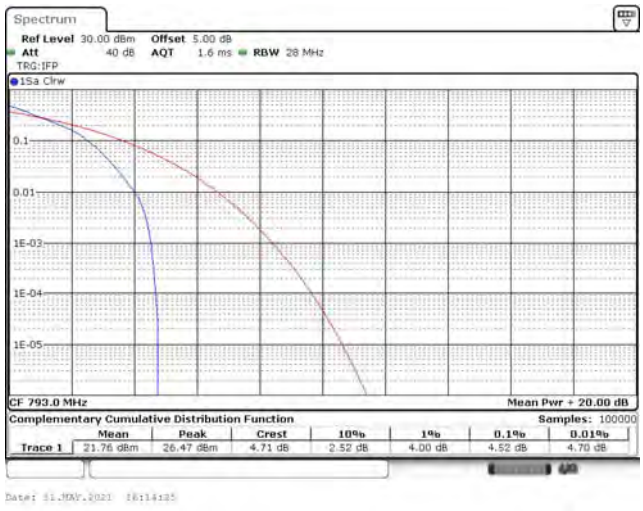
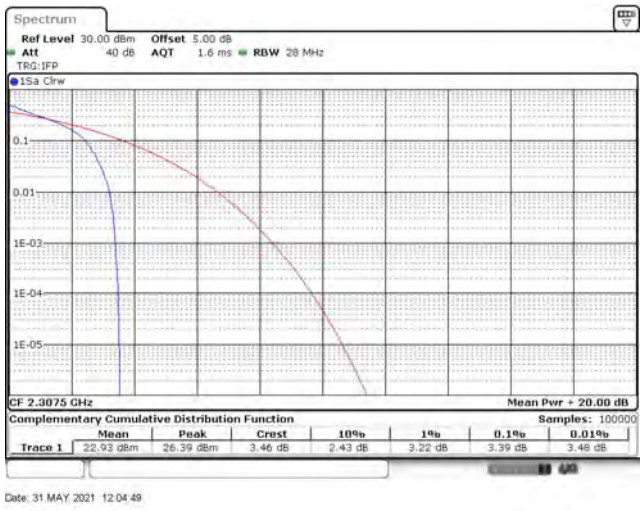
	

Product Name	WCDMA/LTE Mobile Phone		
Test Mode	Mode 6: LTE Band 30		
Date of Test	2021/05/31	Test Site	SR10-H
Temperature(°C)	25	Humidity (%RH)	58

BW	Ch	Freq. (MHz)	Modulation	Peak (dBm)	Average (dBm)	PAPR (dB)
5M	27685	2307.5	QPSK	26.39	22.93	3.39
			16-QAM	26.31	22.04	4.23
	27710	2310	QPSK	26.27	22.96	3.28
			16-QAM	26.29	22.11	4.09
	27735	2312.5	QPSK	26.35	23.10	3.22
			16-QAM	26.22	22.16	4.03
10M	27710	2310	QPSK	25.73	22.22	3.45
			16-QAM	25.73	22.22	3.45

LTE_B30_CH27685_5M__QPSK_1RB0



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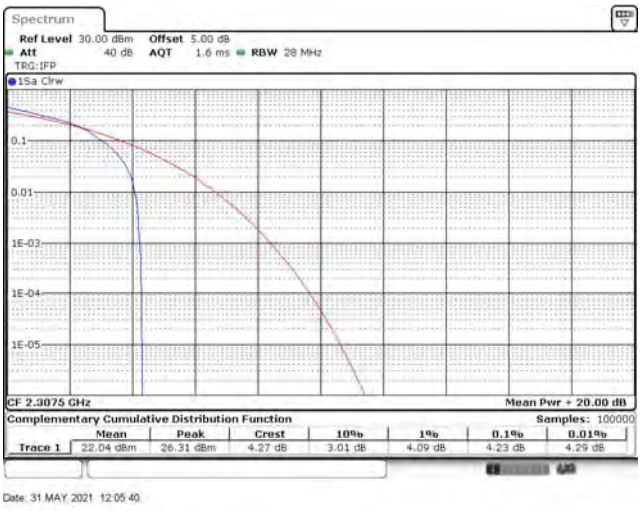

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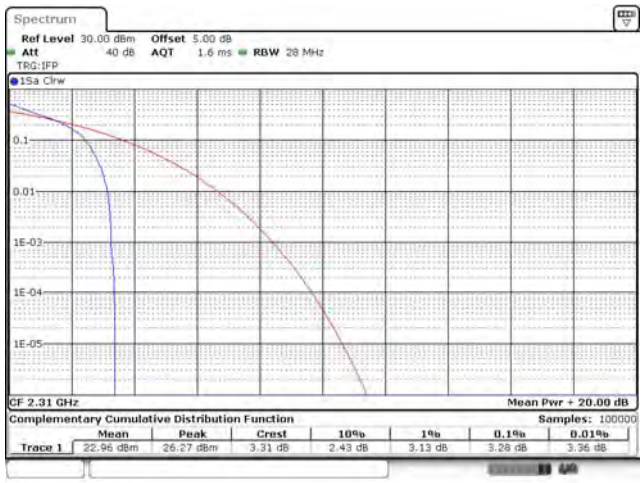

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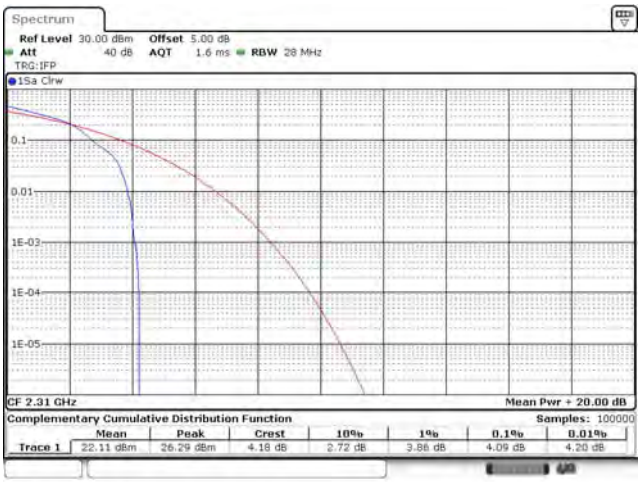

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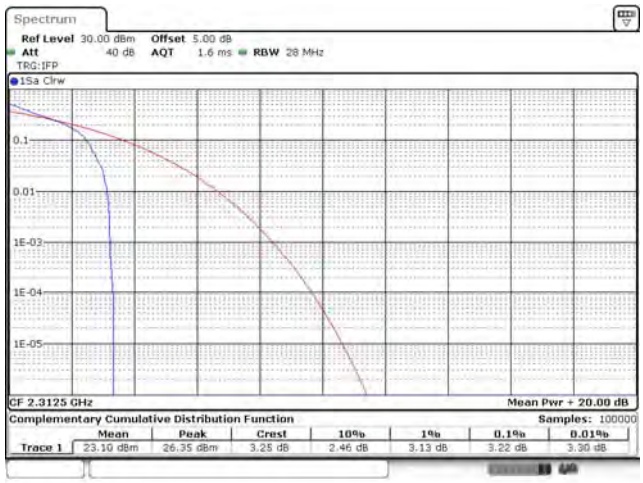
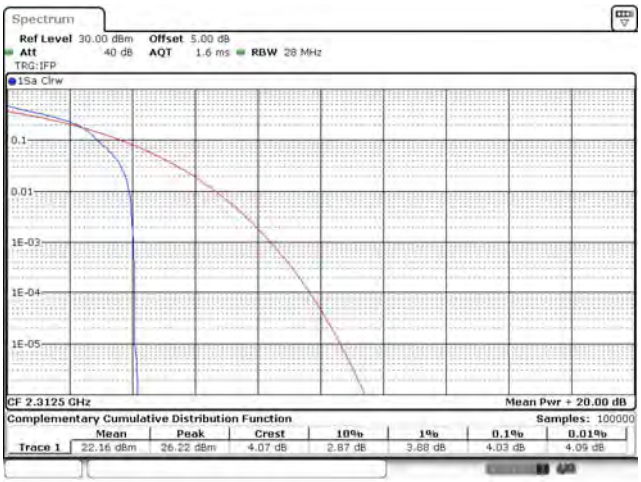


LTE_B30_CH27735_5M_16-QAM_1RB24



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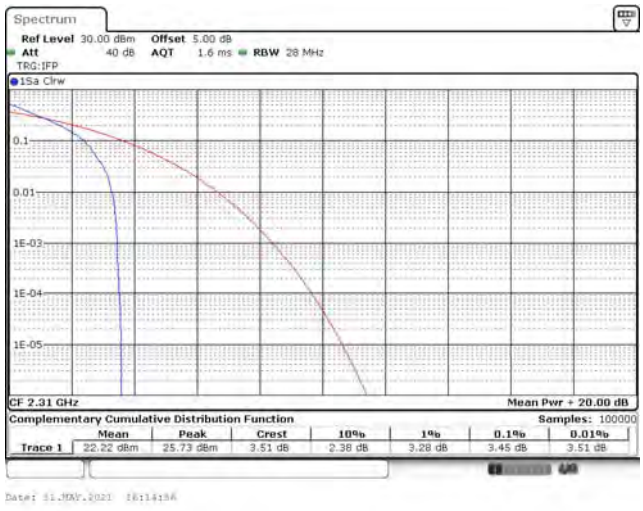
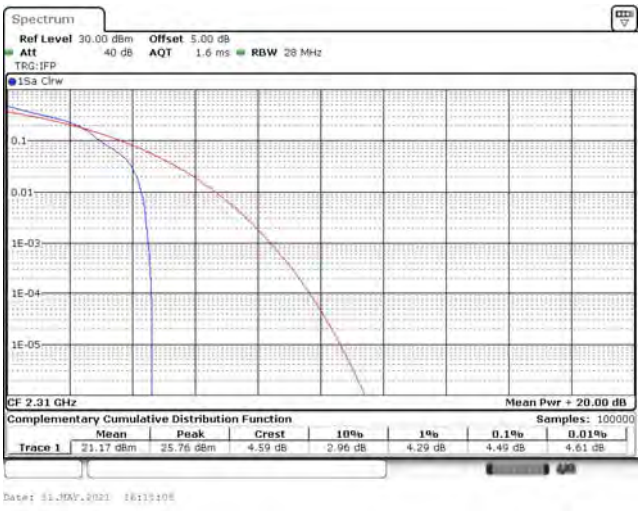
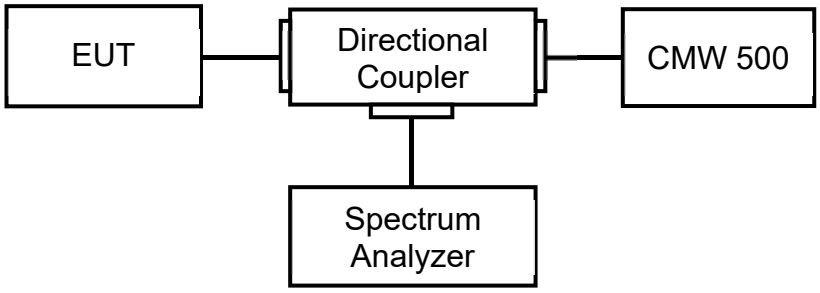
	

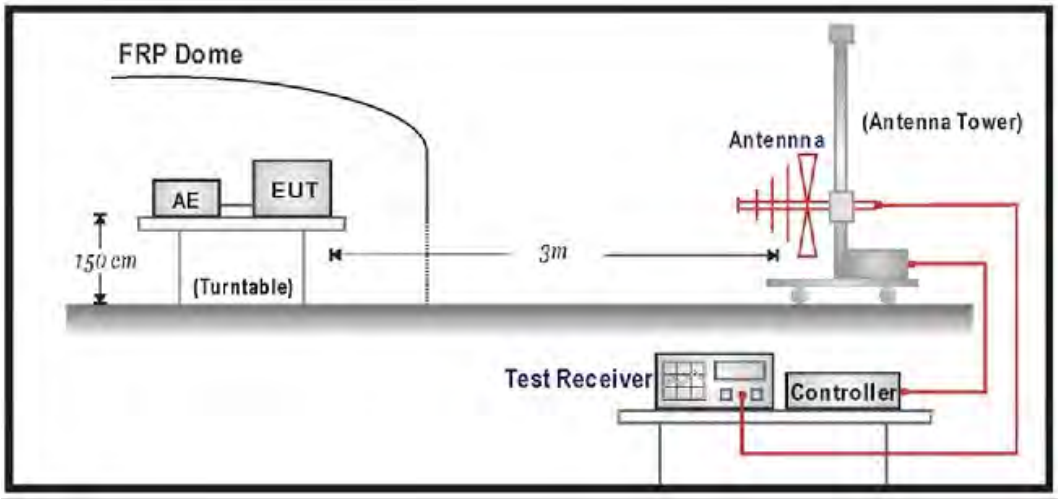
6. Spurious Emissions

6.1. Test Setup

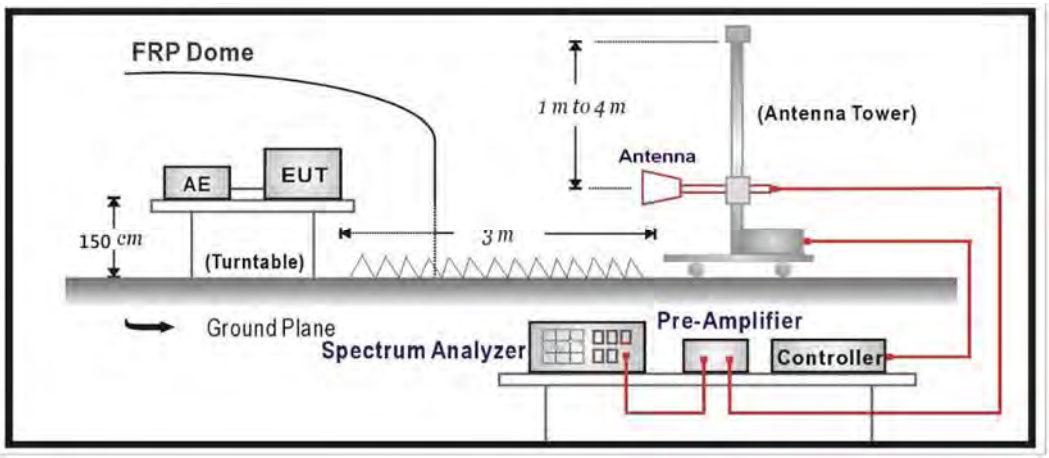
Conducted Spurious Measurement:



Radiated Spurious Measurement (below 1GHz)



Radiated Spurious Measurement (above 1GHz)



6.2. Test Procedure

Conducted Spurious Measurement:

a) Place the EUT on a bench and set it in transmitting mode.
b) Connect a low loss RF cable from the antenna port to a spectrum analyzer and CMW500 by a Directional Couple.
c) EUT Communicate with CMW500, then select a channel for testing.
d) Add a correction factor to the display of spectrum, and then test.
e) The resolution bandwidth of the spectrum analyzer was set at 1 MHz, sufficient scans were taken to show the out of band Emission if any up to 10th harmonic.

Radiated Spurious Measurement:

a) The EUT was placed on a rotatable wooden table with 1.5 meter above ground.
b) The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
c) The table was rotated 360 degrees to determine the position of the highest spurious emission.
d) The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
e) Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 1MHz, Sweep 500ms, Taking the record of maximum spurious emission.
f) A horn antenna was substituted in place of the EUT and was driven by a signal generator.
g) Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
h) Taking the record of output power at antenna port
i) Repeat step 7 to step 8 for another polarization.
j) EIRP = SG - Cable loss + Antenna Gain

6.3. Test Method

Conducted Spurious Measurement:

KDB 971168 D01 Power Meas License Digital Systems v03 sub-clause 6.1
ANSI C63.26: 2015 Sub-clause 5.7

Radiated Spurious Measurement:

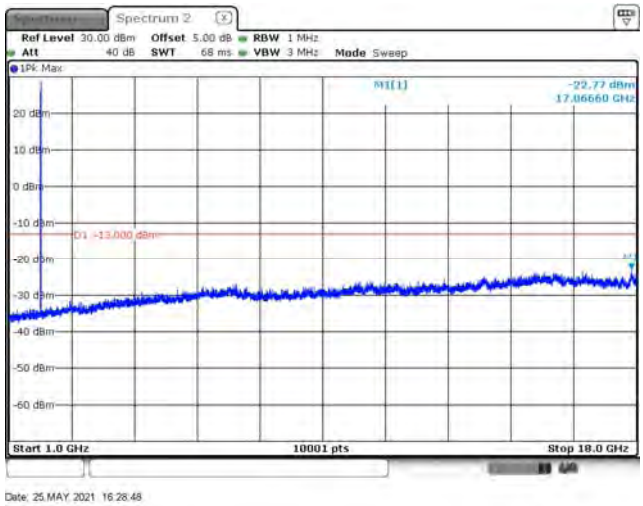
KDB 971168 D01 Power Meas License Digital Systems v03 sub-clause 5.8
ANSI C63.26: 2015 Sub-clause 5.5.3.2

6.4. Test Result

Conducted Spurious Emissions

Product Name	WCDMA/LTE Mobile Phone		
Test Mode	Mode 1: LTE Band 2		
Date of Test	2021/05/25	Test Site	SR10-H
Temperature(°C)	26.8	Humidity (%RH)	65

LTE_B2_CH18607_1.4M_1RB0__QPSK_Above 1G



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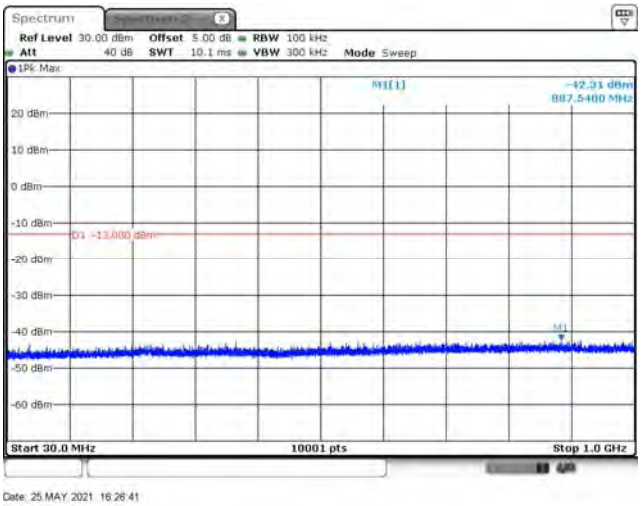

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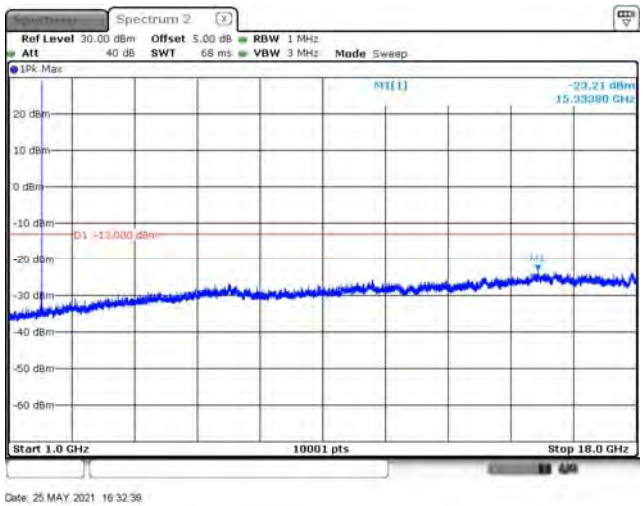

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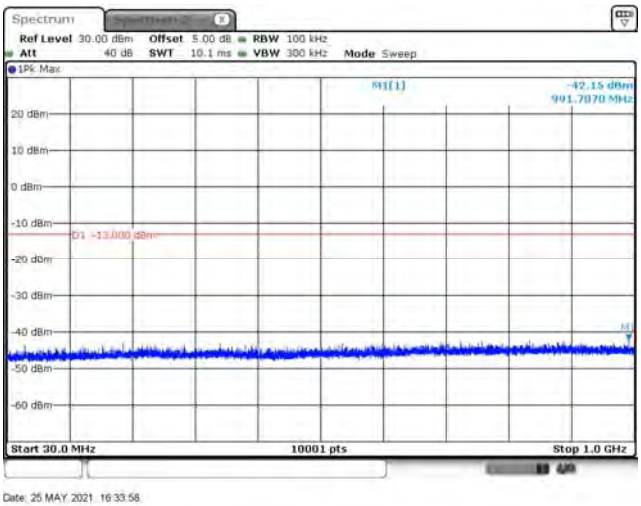

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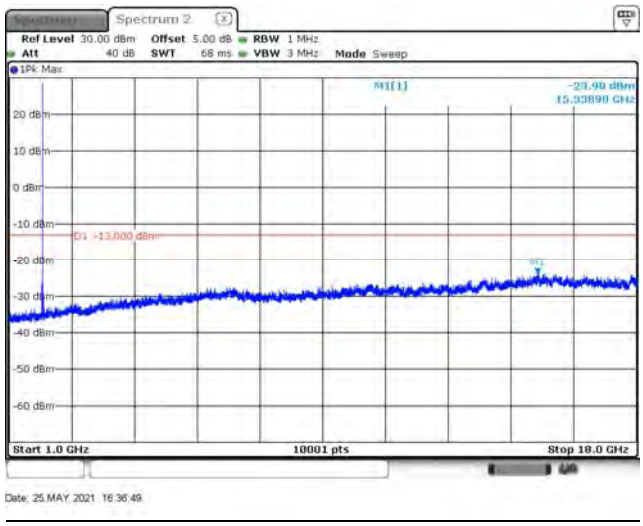	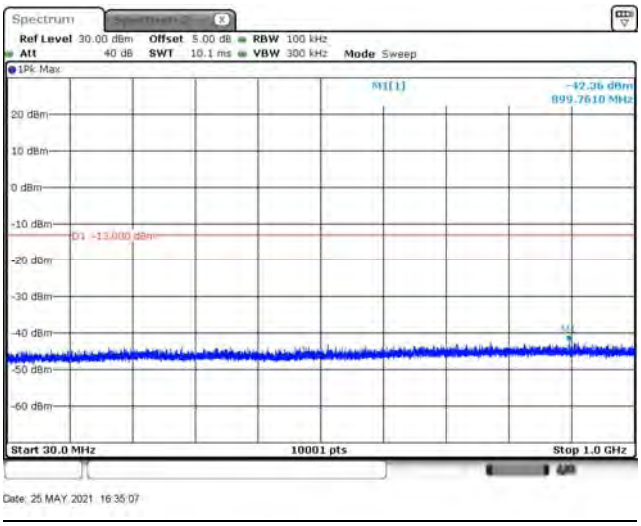

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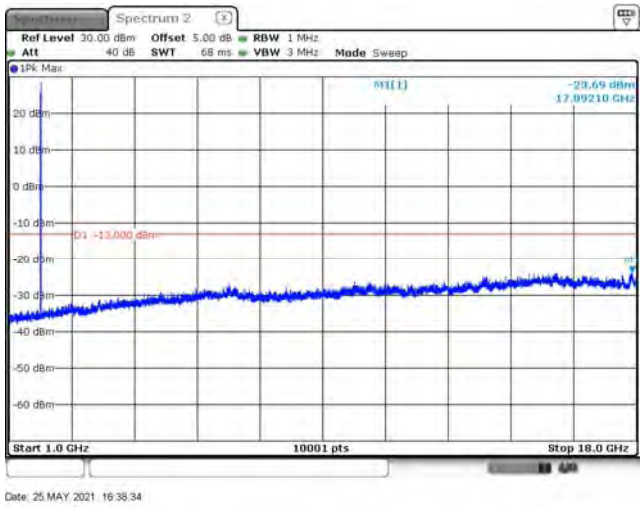

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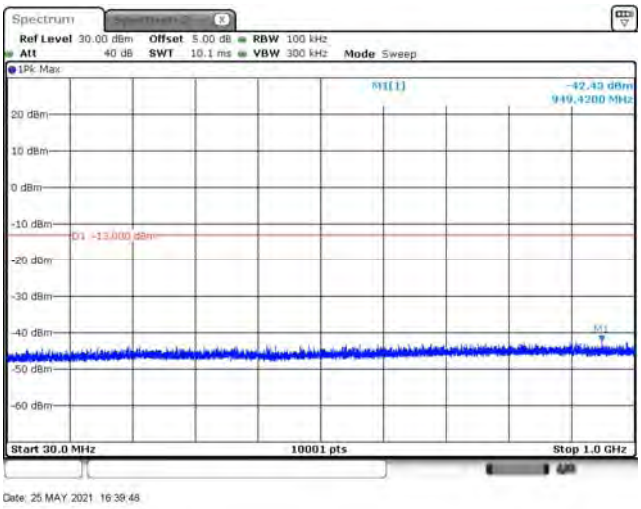

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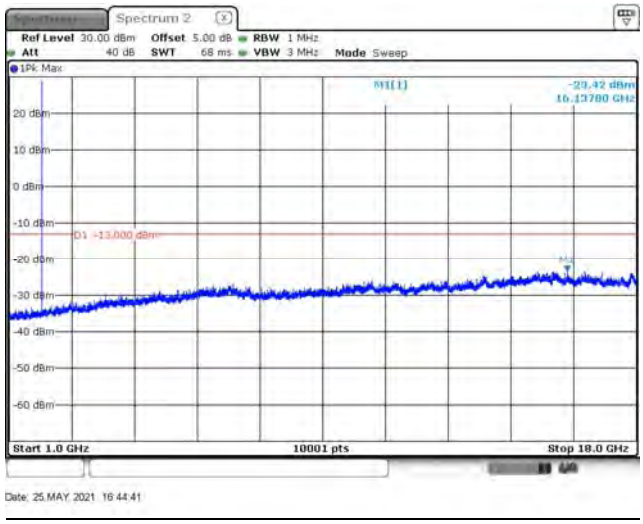

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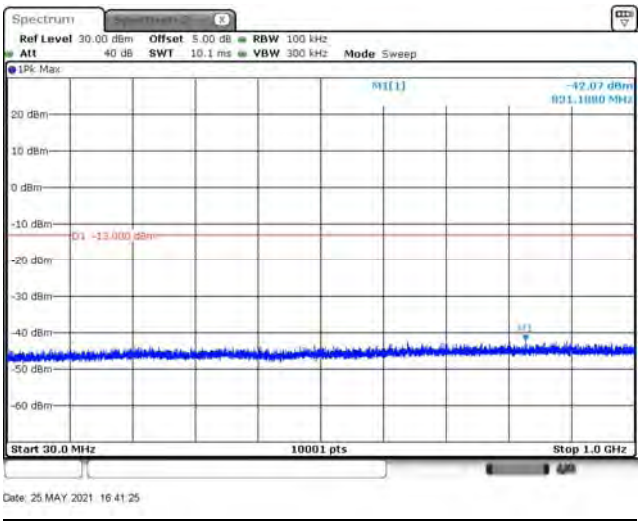

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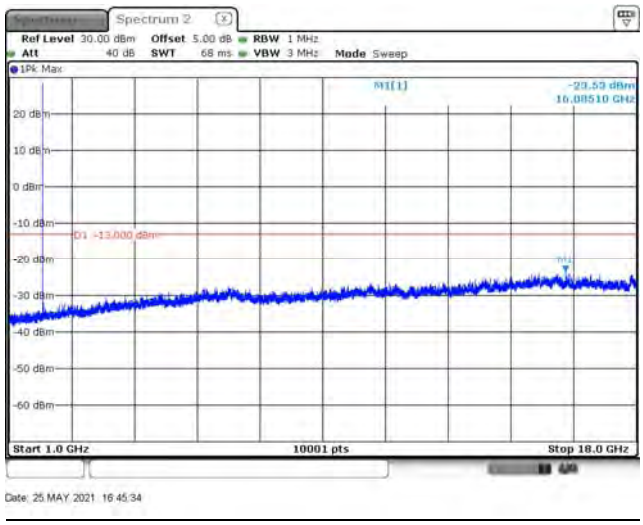

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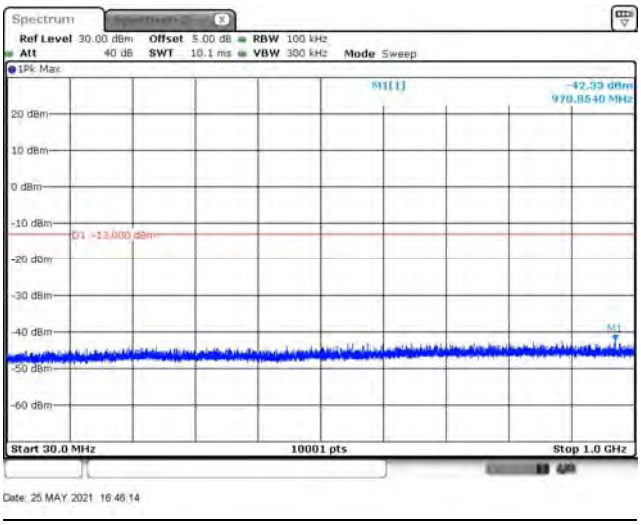

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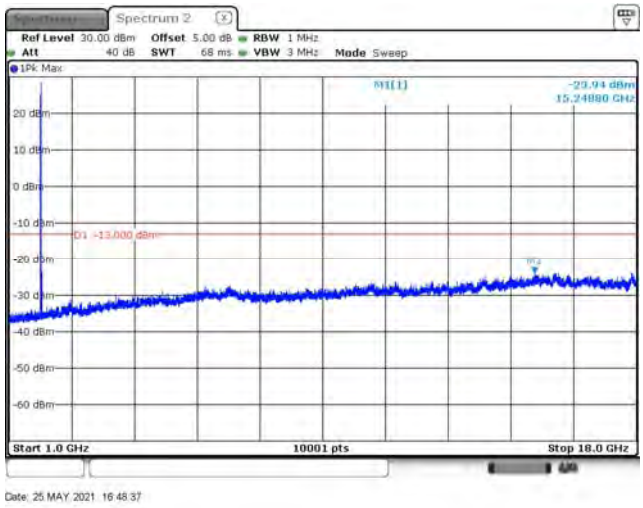

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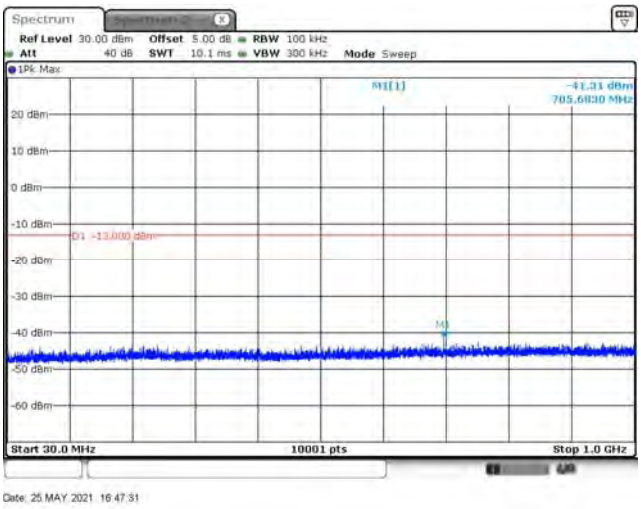

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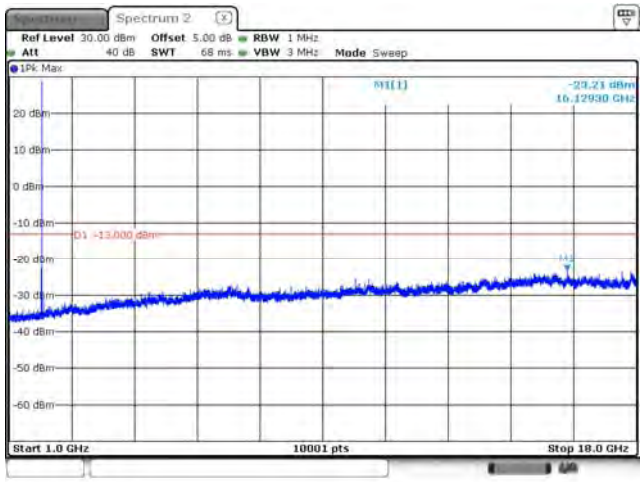

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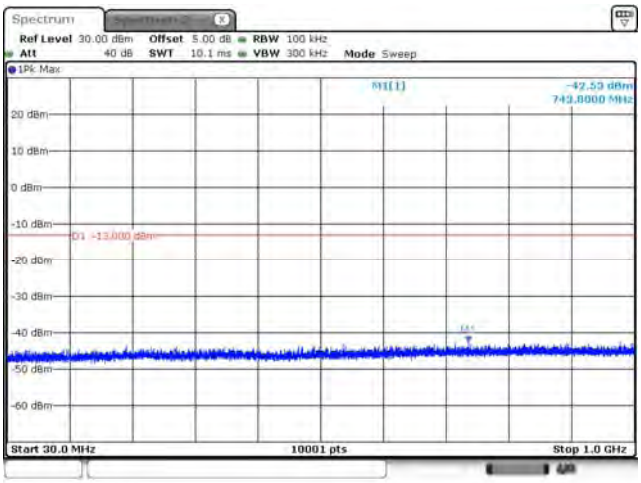

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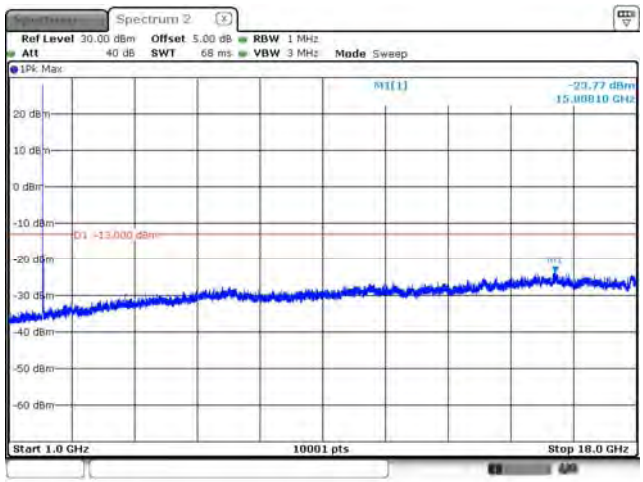

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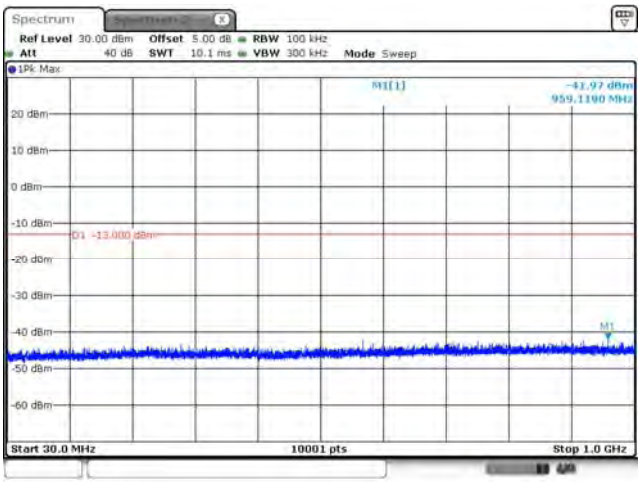

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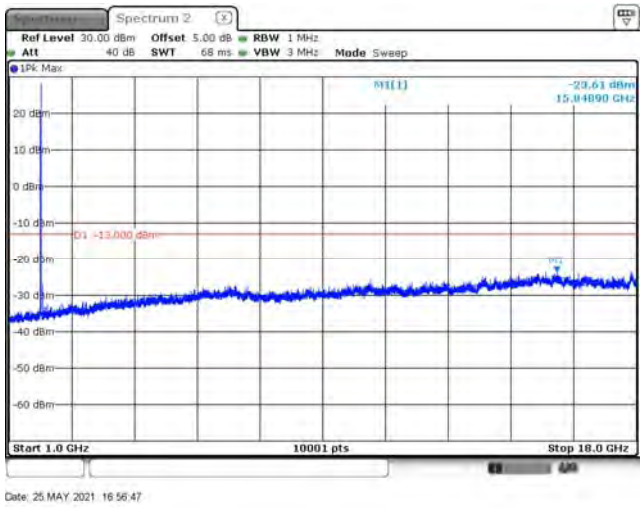

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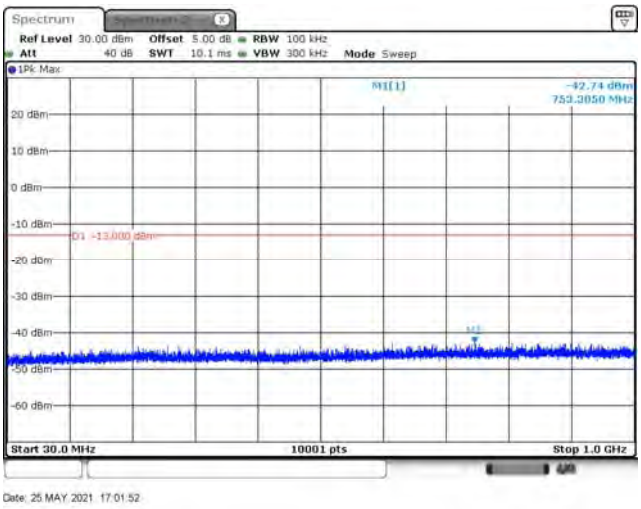

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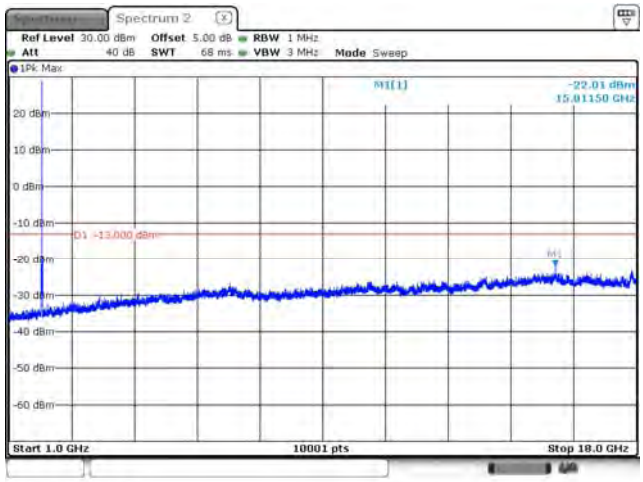

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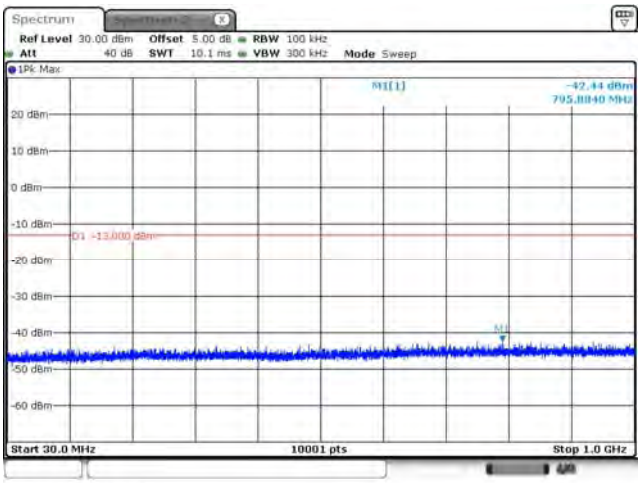

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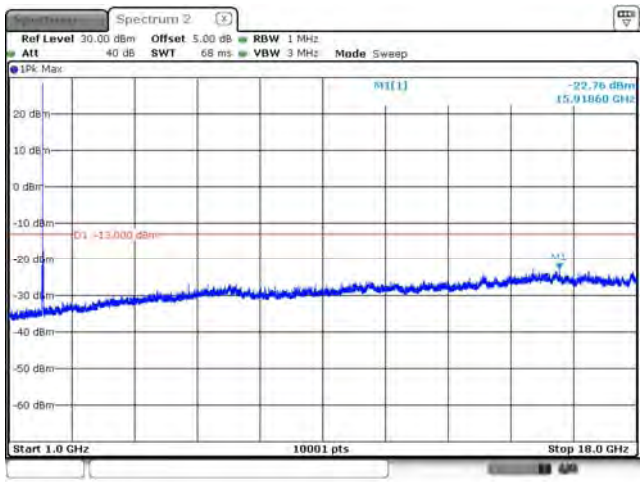

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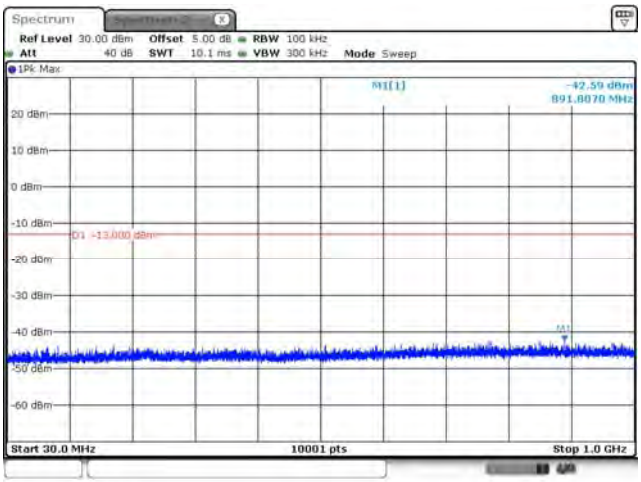

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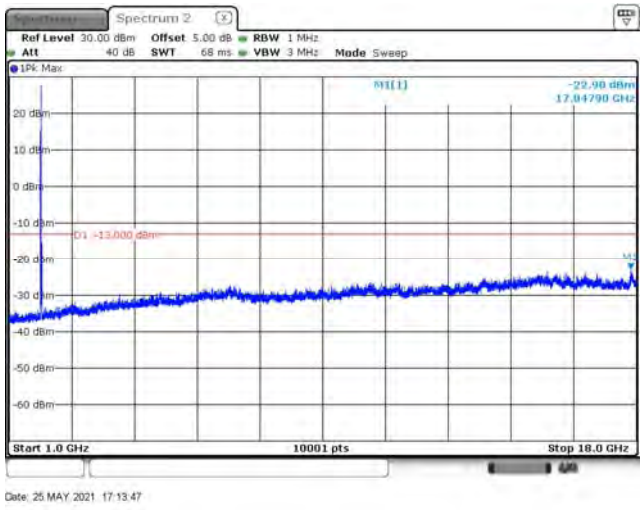

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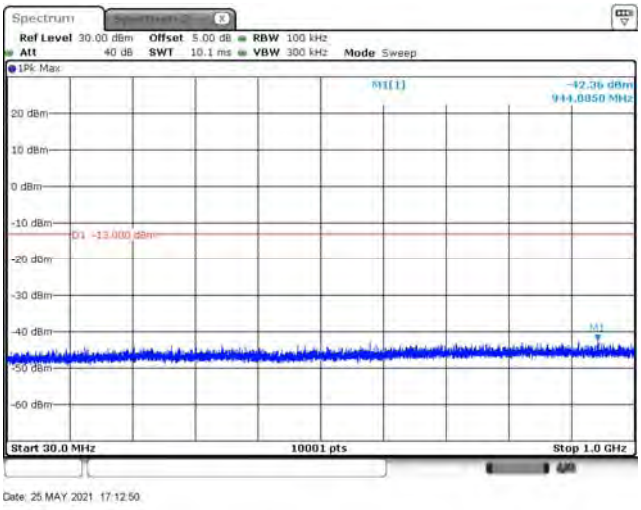

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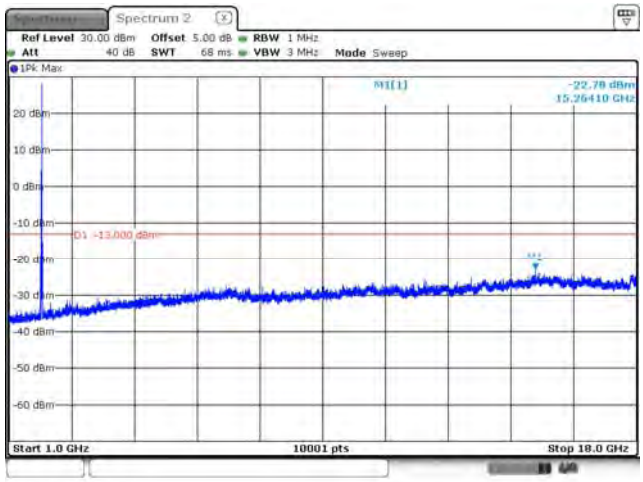

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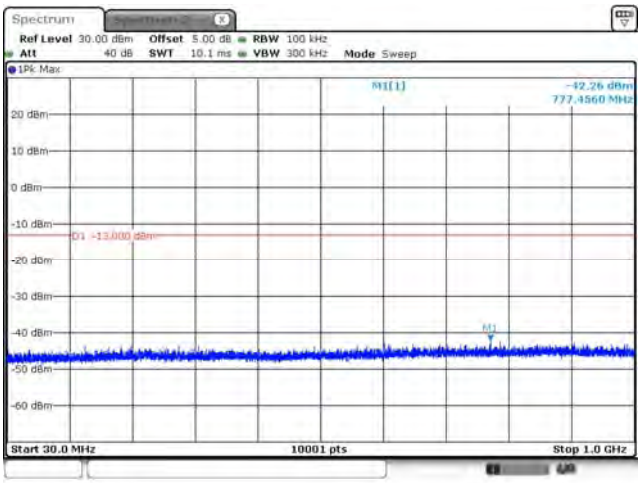

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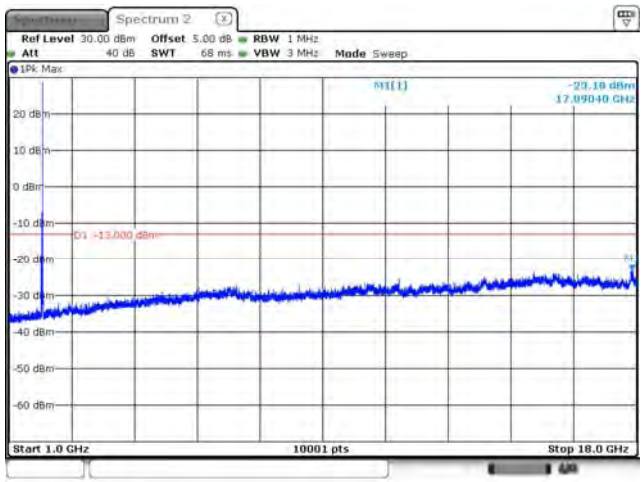

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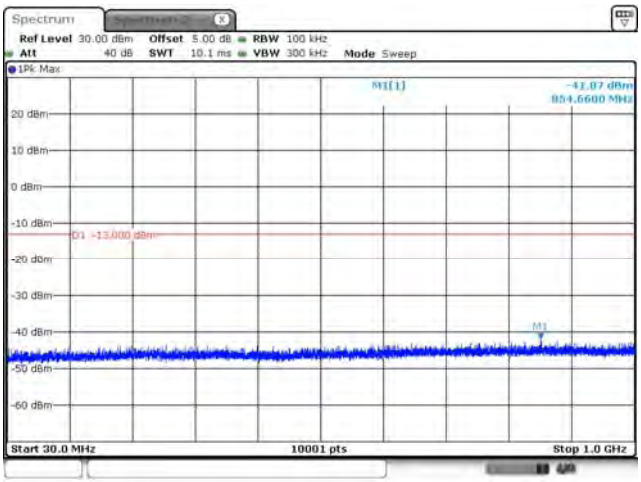

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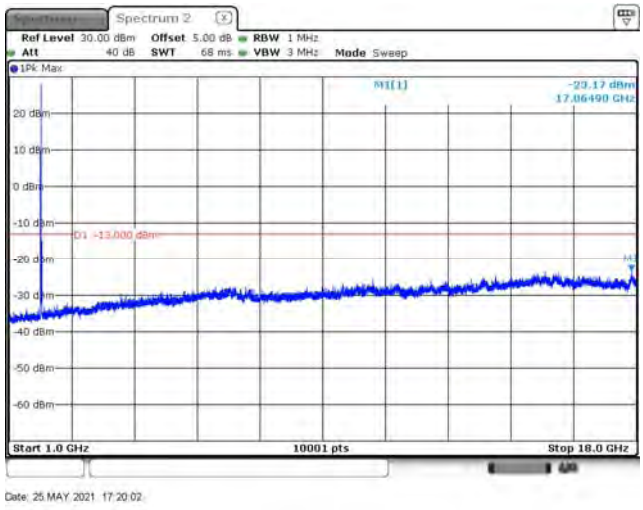

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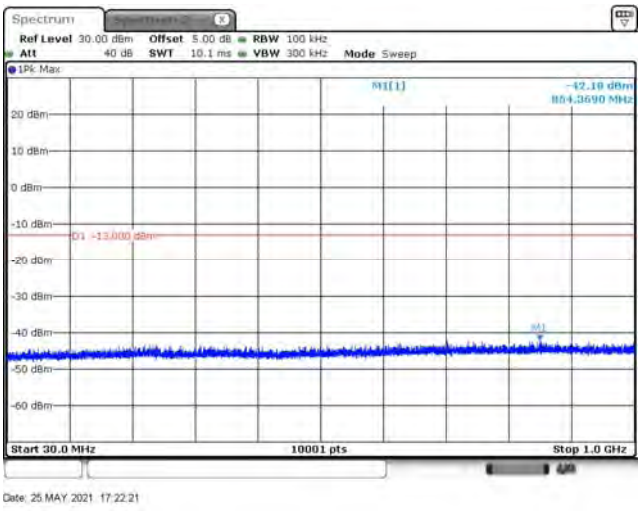

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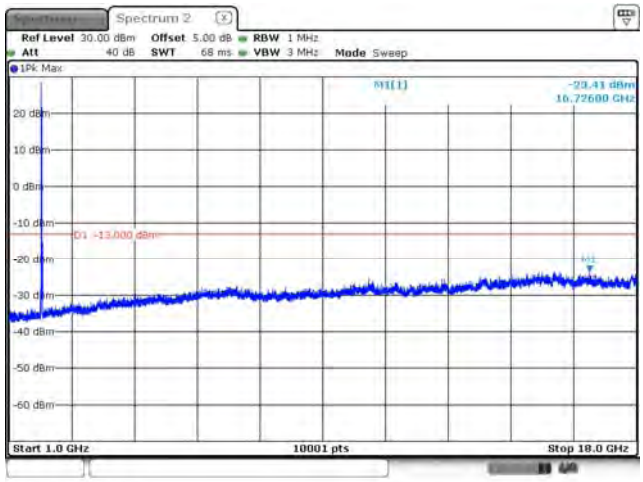

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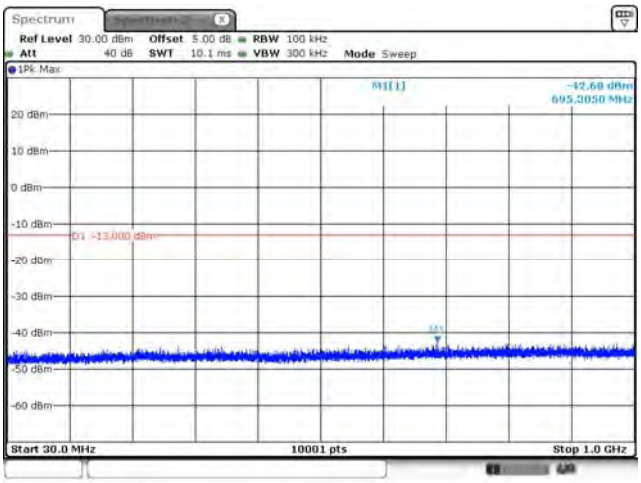

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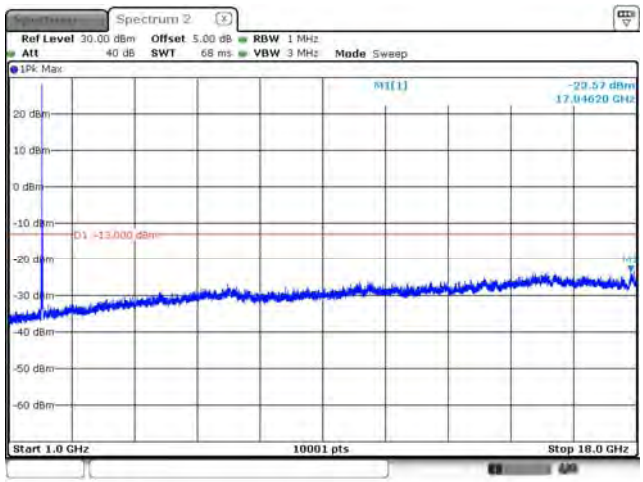

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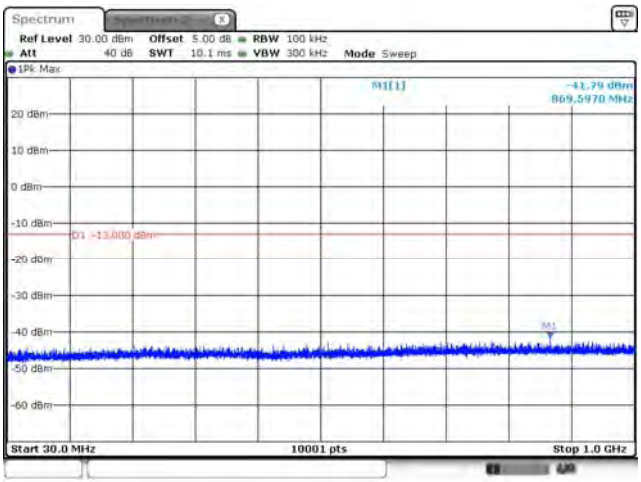

Product Name	WCDMA/LTE Mobile Phone		
Test Mode	Mode 2: LTE Band 4		
Date of Test	2021/05/26	Test Site	SR10-H
Temperature(°C)	26.1	Humidity (%RH)	68

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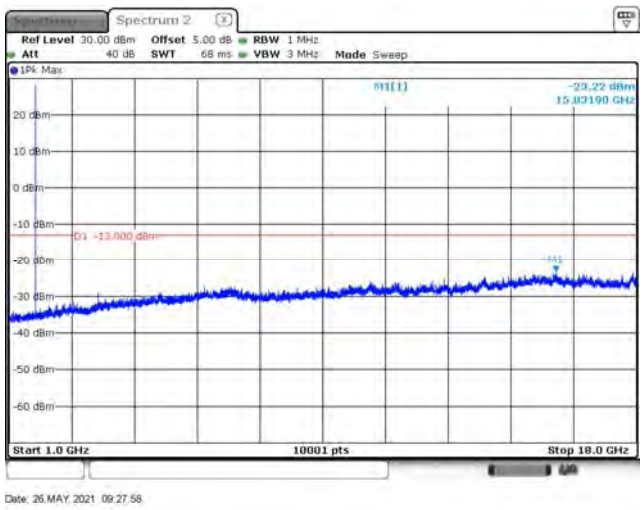

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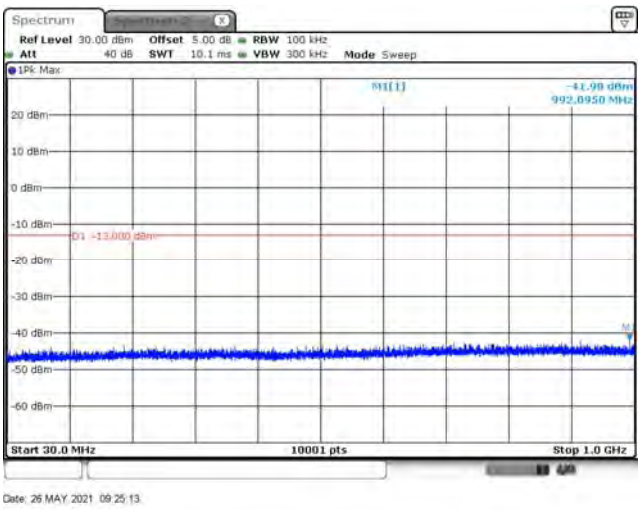

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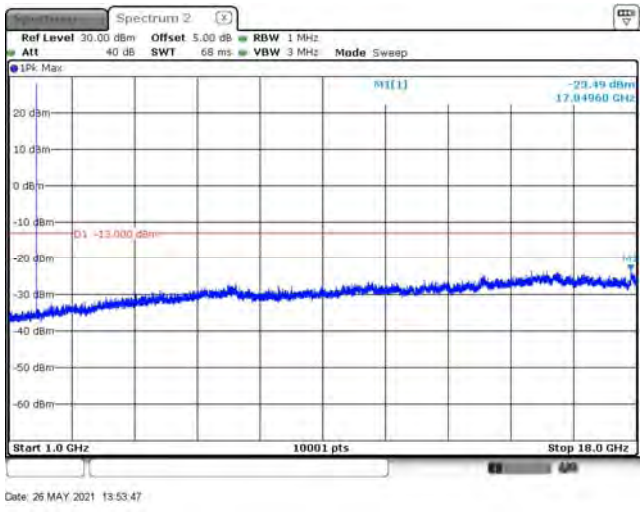

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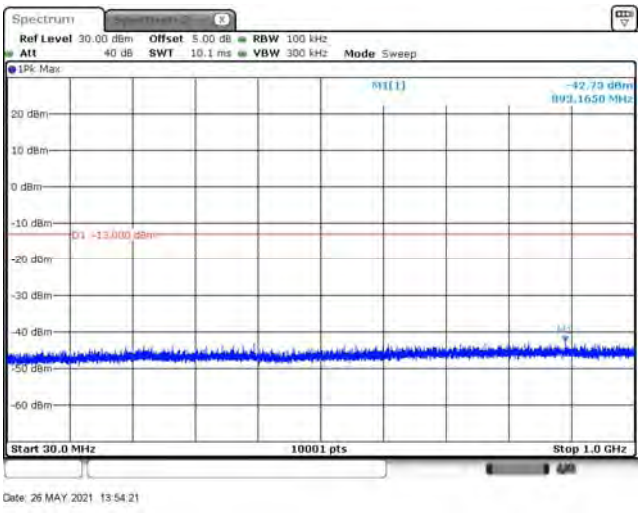

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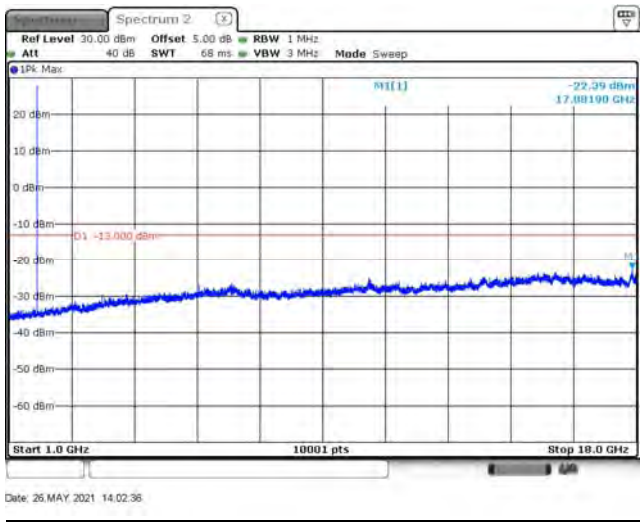	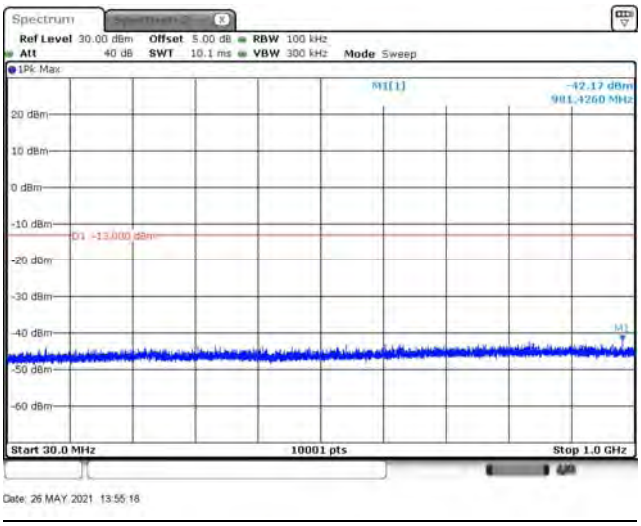

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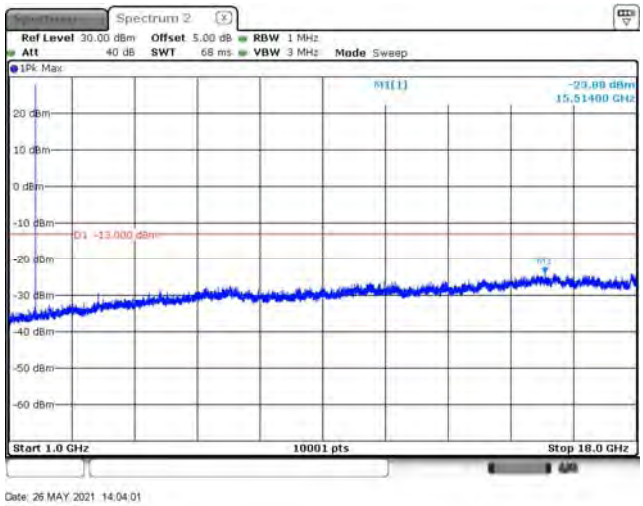

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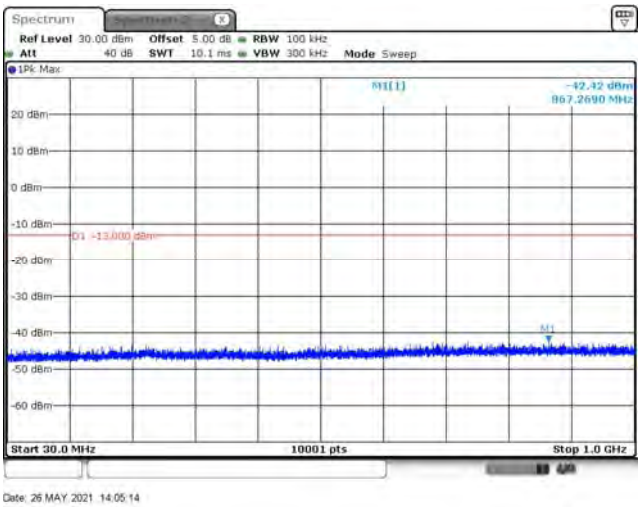

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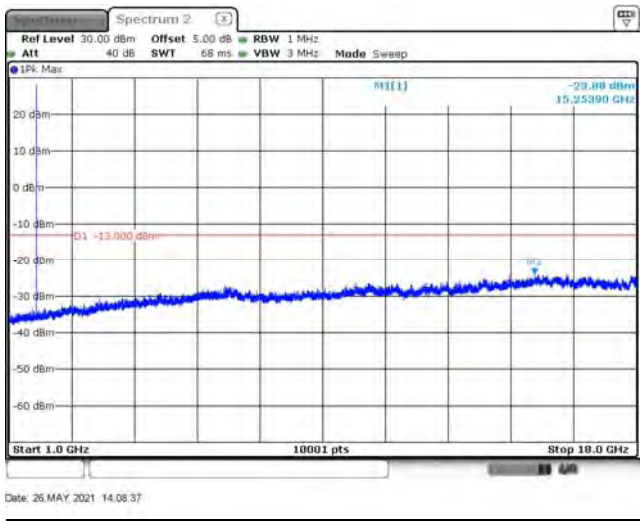

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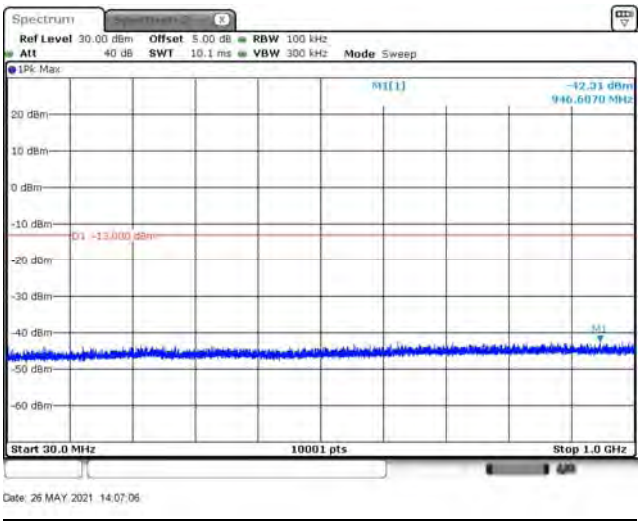

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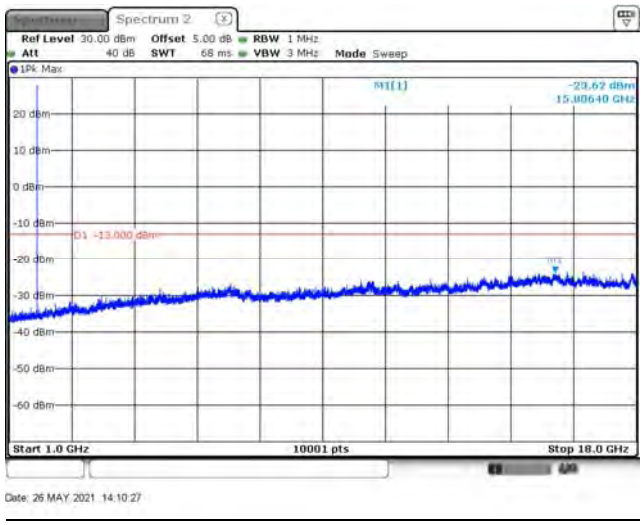

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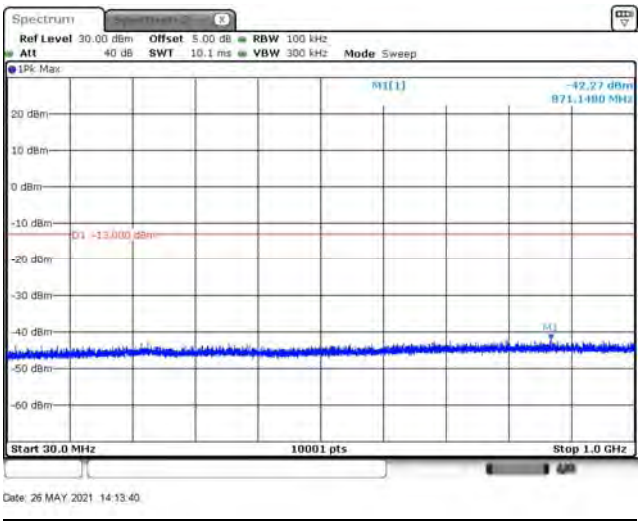

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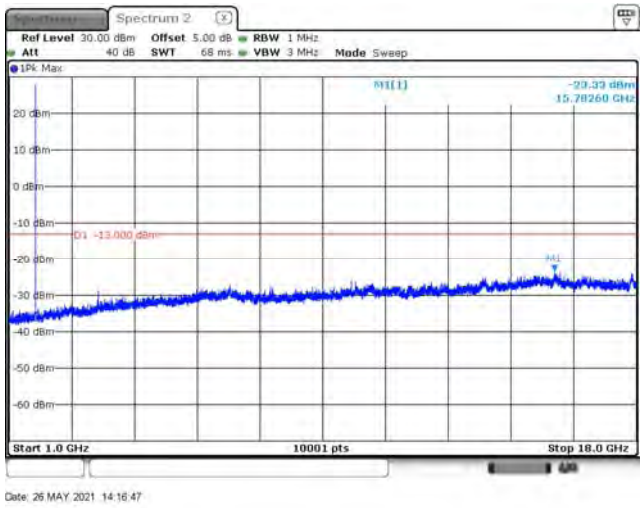

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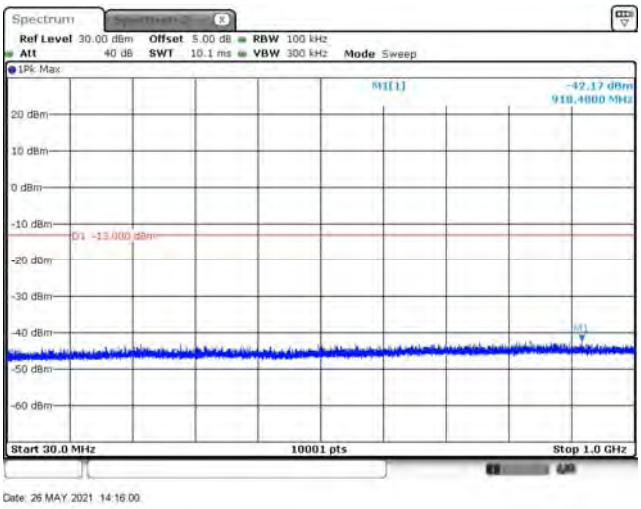

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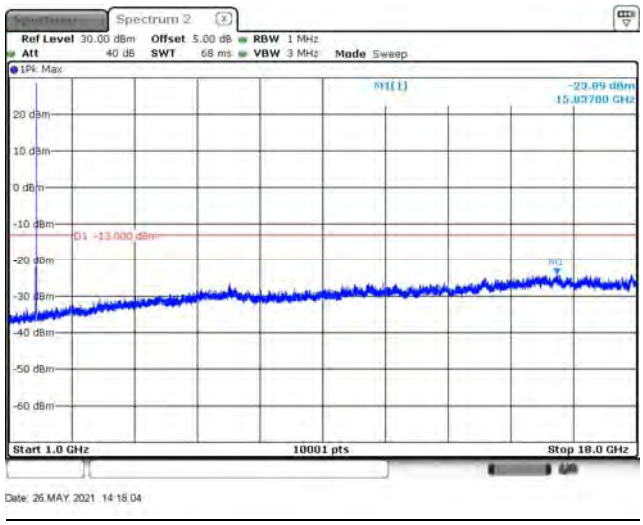

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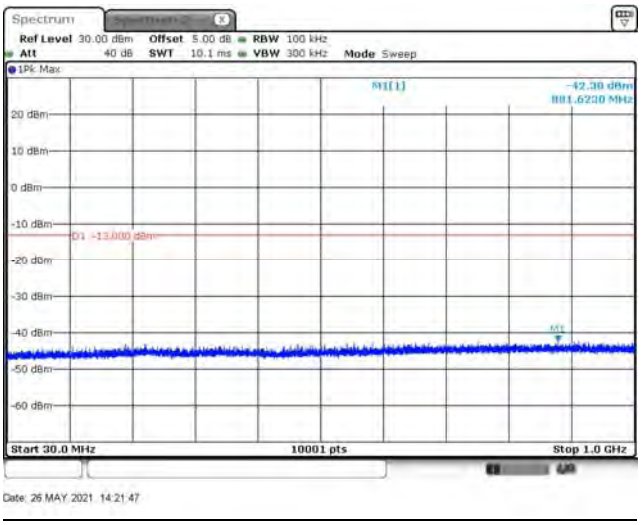

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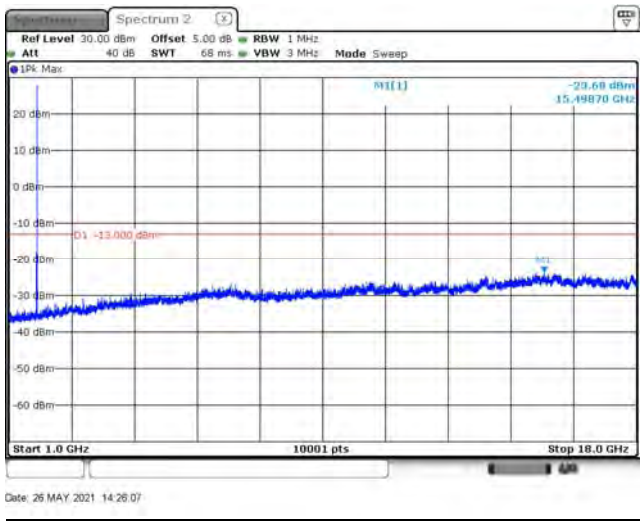

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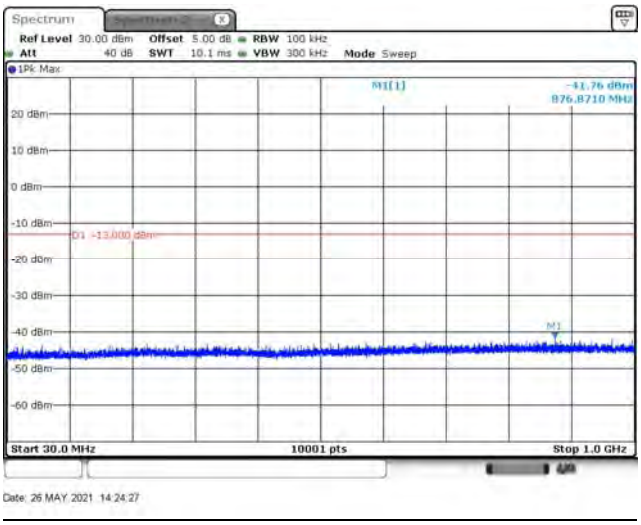

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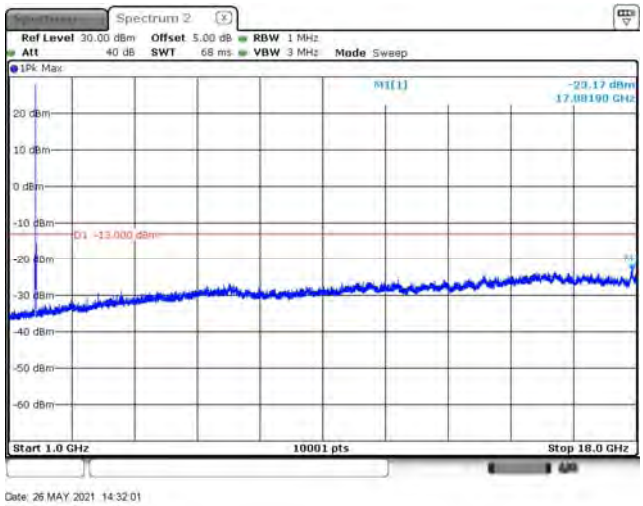

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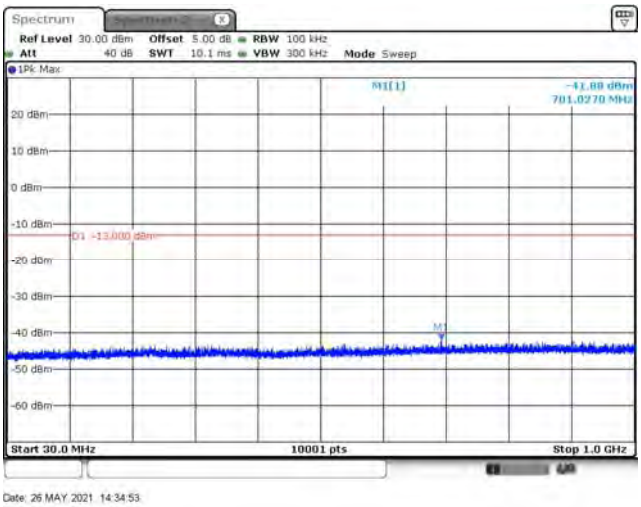

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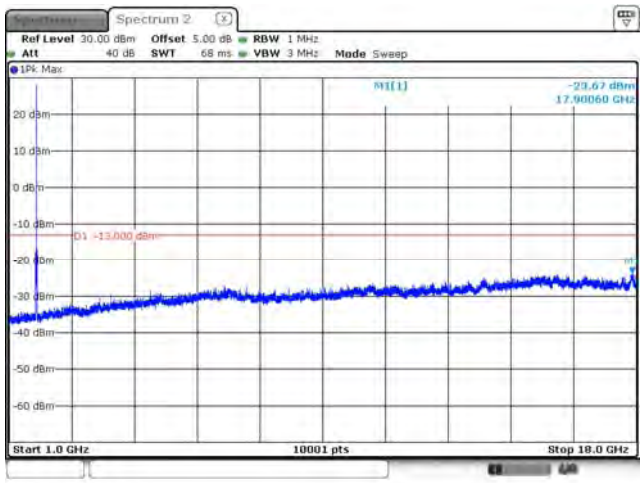

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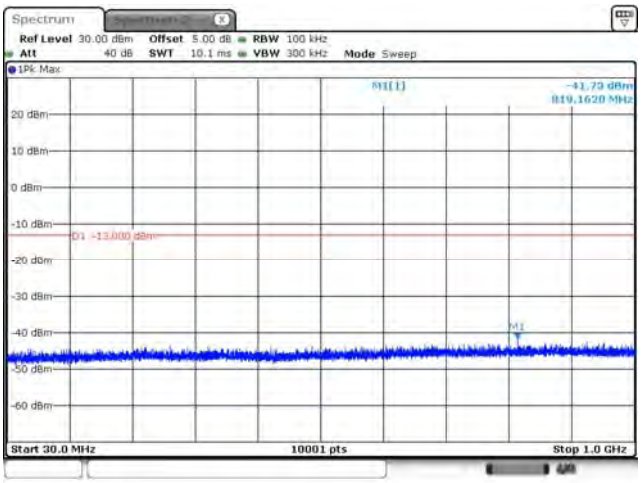

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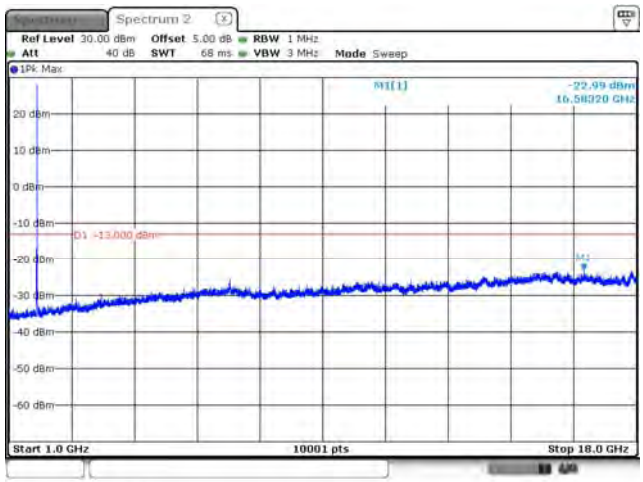

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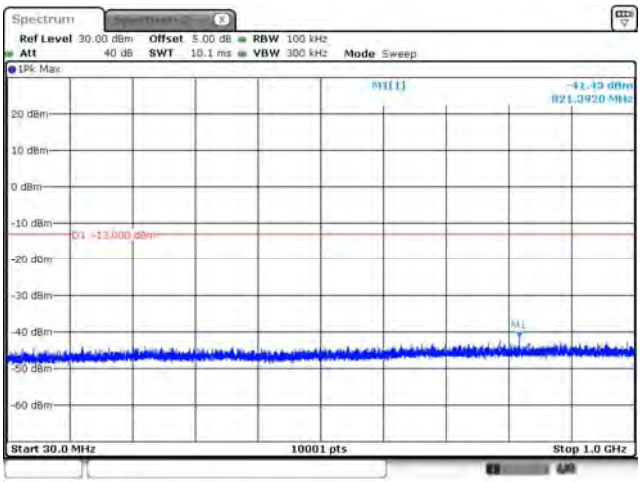

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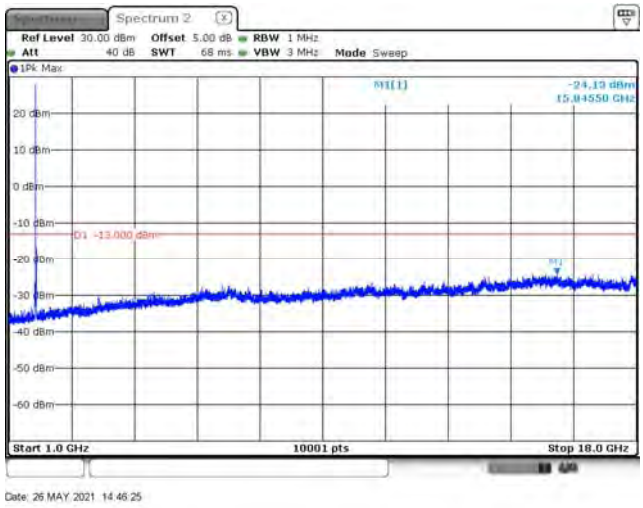

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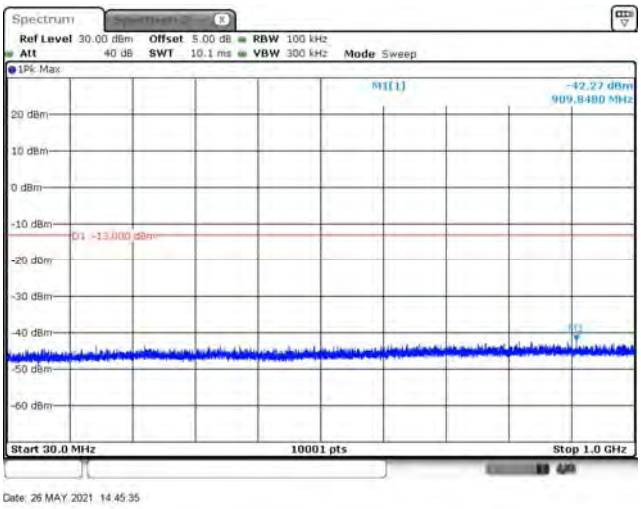

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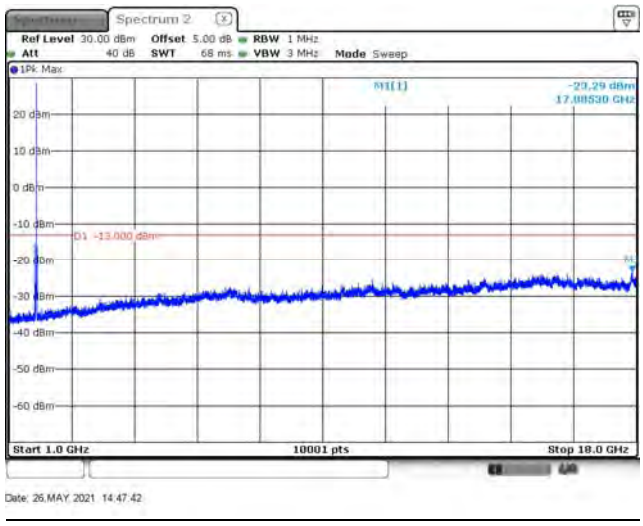

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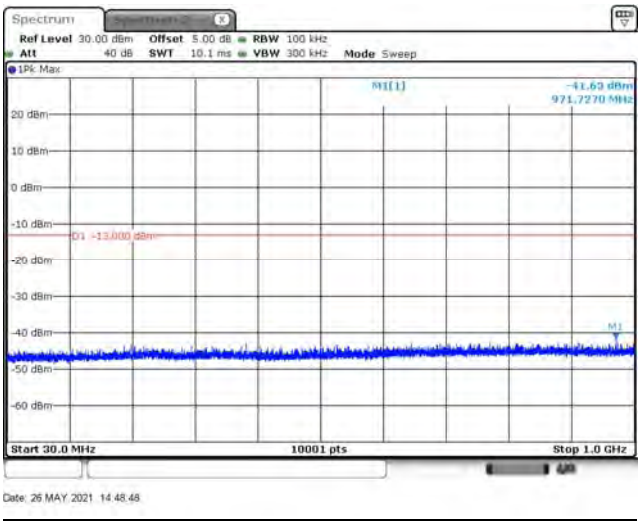

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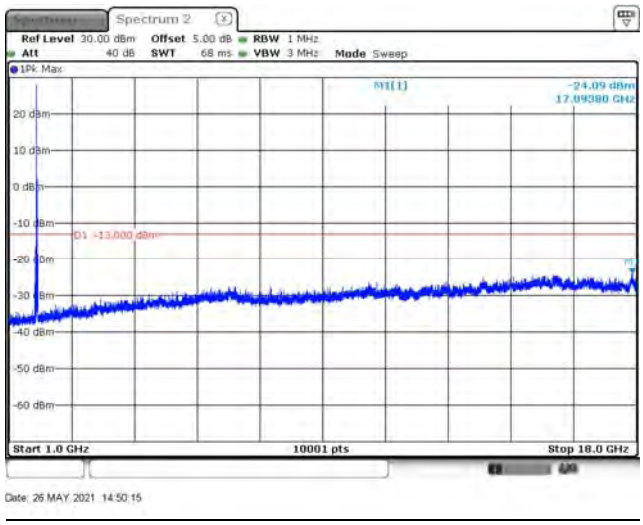
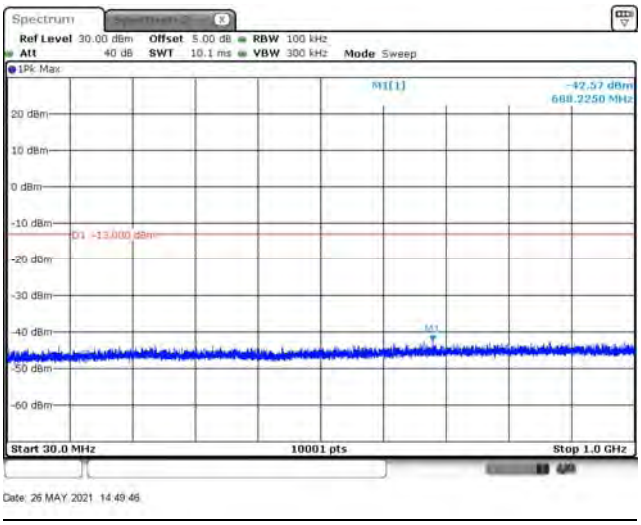
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