

FCC Radio Test Report

FCC ID: 2AUYFRMX3286

This report concerns: Original Grant

Project No. : 2110C043A
Equipment : Mobile Phone
Brand Name : realme
Test Model : RMX3286
Series Model : N/A
Applicant : Realme Chongqing Mobile Telecommunications Corp., Ltd.
Address : No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China
Manufacturer : Realme Chongqing Mobile Telecommunications Corp., Ltd.
Address : No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China
Date of Receipt : Oct. 25, 2021
Date of Test : Oct. 26, 2021 ~ Nov. 10, 2021
Issued Date : Dec. 02, 2021
Report Version : R00
Test Sample : Engineering Sample No.: DG20211022140 for conducted, DG20211022142 for radiated.
Standard(s) : 47 CFR FCC Part 24 Subpart E
47 CFR FCC Part 2
ANSI/TIA/EIA-603-E-2016
FCC KDB 971168 D01 Power Meas License Digital Systems v03r01

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

Gabriel Zhu

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TESTING CERT #5123.02

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Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

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BTL's laboratory quality assurance procedures are in compliance with the **ISO/IEC 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and is not use in determining the Pass/Fail results.

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REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue.	Dec. 02, 2021

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC Part 24 Subpart E & Part 2			
Standard(s) Section	Test Item	Judgment	Remark
2.1046 24.232(c)	Equivalent Isotropic Radiated Power	PASS	-----
2.1049	Occupied Bandwidth	PASS	-----
2.1051 24.238(a)	Conducted Spurious Emissions	PASS	-----
2.1053 24.238(a)	Radiated Spurious Emissions	PASS	-----
24.238(a)	Band Edge Measurements	PASS	-----
24.232(d)	Peak To Average Ratio	PASS	-----
2.1055 24.235	Frequency Stability	PASS	-----

Note:

(1) "N/A" denotes test is not applicable in this test report.

1.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No. 3 Jinshagang 1st Rd. Shixia, Dalang Town, Dongguan City, Guangdong, People's Republic of China.

BTL's Test Firm Registration Number for FCC: 357015

BTL's Designation Number for FCC: CN1240

1.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

The BTL measurement uncertainty as below table:

A. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)
DG-CB03	CISPR	9KHz ~ 30MHz	-	2.36
		30MHz ~ 200MHz	V	4.36
		30MHz ~ 200MHz	H	3.32
		200MHz ~ 1,000MHz	V	4.08
		200MHz ~ 1,000MHz	H	3.96
		1GHz ~ 6GHz	-	3.80
		6GHz ~ 18GHz	-	4.82
		18 ~ 26.5 GHz	-	3.62

B. Other Measurement:

Parameter	Uncertainty
Spectrum Bandwidth	±3.8 %
Maximum Output Power	±0.95 dB
Power Spectral Density	±0.86 dB
Frequency Stability	±0.16 dB
Temperature	±0.08 °C
Time	±0.58 %
Supply voltages	±0.3 %

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By
Output Power & EIRP	22.4°C	48%	DC 3.87V	Rick Liao
Occupied Bandwidth	22.4°C	48%	DC 3.87V	Rick Liao
Conducted Spurious Emissions	22.4°C	48%	DC 3.87V	Rick Liao
Radiated Spurious Emissions	26°C	52%	AC 120V/60Hz	Kwok Guo
Band Edge	22.4°C	48%	DC 3.87V	Rick Liao
Peak To Average Ratio	22.4°C	48%	DC 3.87V	Rick Liao
Frequency Stability	Normal & Extreme	48%	Normal & Extreme	Rick Liao

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Mobile Phone				
Brand Name	realme				
Test Model	RMX3286				
Series Model	N/A				
Model Difference(s)	N/A				
Hardware Version	11				
Software Version	realme UI V2.0				
Power Source	1# DC voltage supplied from AC adapter. (1) Model: VCB3H DUH (2) Model: VCB3H AUH 2# Supplied from battery. Model: BLP875 3# Supplied from USB port. Model: DL143				
Power Rating	1# I/P: 100-240V~ 50/60Hz 1.2A O/P: 5V  2A or 5-11V  3A Max 2# DC 3.87V, 4880mAh 3# DC 5V				
IEMI No.	Radiated	860074050019375			
	Conducted	860074050019359			
Modulation Type	GSM		GMSK		
	EDGE/GPRS		GMSK, 8PSK		
	WCDMA/HSDPA/HSUPA		UL: QPSK,16QAM DL: QPSK,16QAM, 64QAM		
	LTE		UL: QPSK,16QAM, 64QAM DL: QPSK,16QAM, 64QAM, 256QAM		
Max. EIRP	GSM 1900 / GPRS 1900		GMSK	30.33	dBm
	EDGE 1900		8PSK	27.25	dBm
	WCDMA Band II		QPSK	24.75	dBm
	HSDPA Band II		QPSK	24.30	dBm
	HSUPA Band II		QPSK	23.25	dBm
	LTE	Channel Bandwidth (MHz)	QPSK (dBm)	16QAM (dBm)	64QAM (dBm)
	Band 2	1.4	23.72	23.03	22.28
		3	23.55	22.93	22.04
		5	23.88	23.32	22.18
		10	23.80	23.17	22.19
		15	23.81	23.26	22.45
		20	23.80	23.42	22.56

Note:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

2. Channel List:

PCS 1900				
Test Frequency ID	UARFCN	Frequency of Uplink (MHz)	UARFCN	Frequency of Downlink (MHz)
Low Range	512	1850.2	528	1930.2
Mid Range	661	1880	677	1960
High Range	810	1909.8	826	1989.8

WCDMA Band II				
Test Frequency ID	UARFCN	Frequency of Uplink (MHz)	UARFCN	Frequency of Downlink (MHz)
Low Range	9262	1852.4	9662	1932.4
Mid Range	9400	1880.0	9800	1960.0
High Range	9538	1907.6	9938	1987.6

LTE Band 2					
Test Frequency ID	Bandwidth (MHz)	N _{UL}	Frequency of Uplink (MHz)	N _{DL}	Frequency of Downlink (MHz)
Low Range	1.4	18607	1850.7	607	1930.7
	3	18615	1851.5	615	1931.5
	5	18625	1852.5	625	1932.5
	10	18650	1855	650	1935
	15	18675	1857.5	675	1937.5
	20	18700	1860	700	1940
Mid Range	1.4/3/5/10/15/20	18900	1880	900	1960
High Range	1.4	19193	1909.3	1193	1989.3
	3	19185	1908.5	1185	1988.5
	5	19175	1907.5	1175	1987.5
	10	19150	1905	1150	1985
	15	19125	1902.5	1125	1982.5
	20	19100	1900	1100	1980

3. Table for Filed Antenna:

Main Antenna

Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
N/A	N/A	PIFA	N/A	1.1	PCS 1900
N/A	N/A	PIFA	N/A	1.1	WCDMA Band II
N/A	N/A	PIFA	N/A	1.1	LTE Band 2

Second Antenna

Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
N/A	N/A	PIFA	N/A	1.1	PCS 1900
N/A	N/A	PIFA	N/A	1.1	WCDMA Band II
N/A	N/A	PIFA	N/A	1.1	LTE Band 2

Note: The antenna gain is provided by the manufacturer.

2.2 DESCRIPTION OF TEST MODES

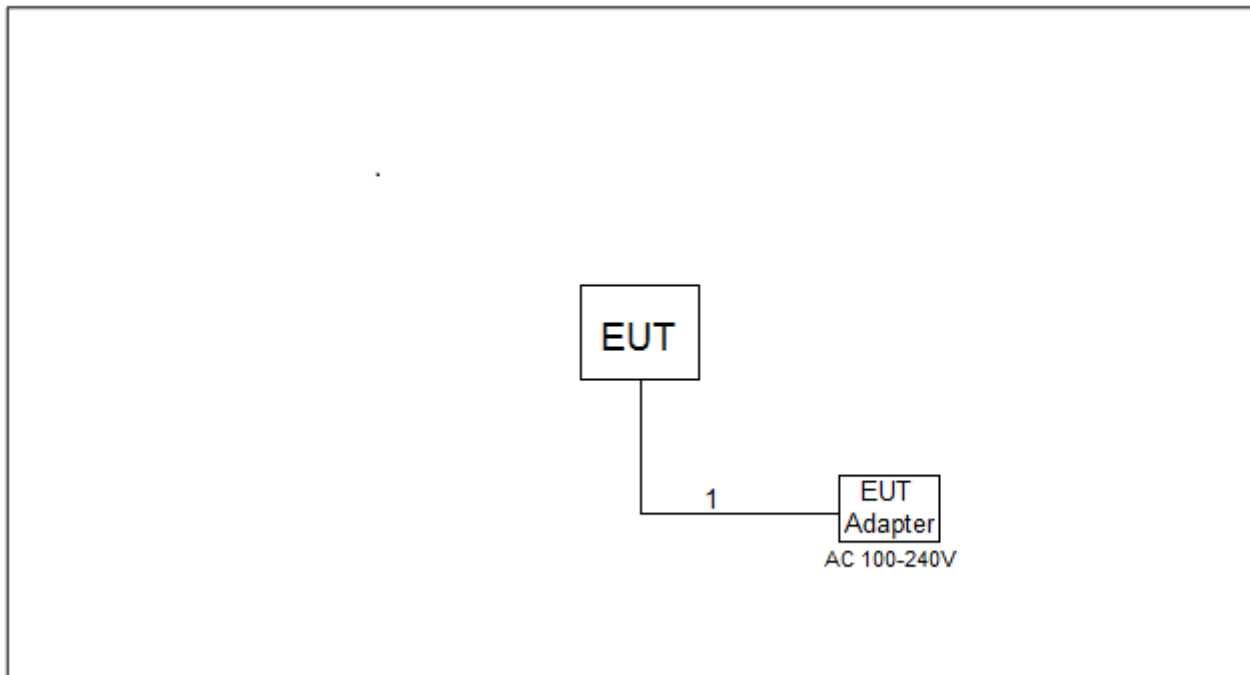
Following mode(s) is (were) found to be the worst case(s) and selected for the final test.

GSM MODE			
Test Item	Available Channel	Tested Channel	Mode
Output Power & EIRP	512 to 810	512, 661, 810	GSM, GPRS, EDGE
Occupied Bandwidth	512 to 810	512, 661, 810	GSM, EDGE
Conducted Spurious Emissions	512 to 810	661	GSM, EDGE
Radiated Spurious Emissions	512 to 810	661	GSM
Band Edge	512 to 810	512, 810	GSM, EDGE
Peak To Average Ratio	512 to 810	512, 661, 810	GSM, EDGE
Frequency Stability	512 to 810	661	GSM

WCDMA BAND II MODE			
Test Item	Available Channel	Tested Channel	Mode
Output Power & EIRP	9262 to 9538	9262, 9400, 9538	WCDMA, HSDPA, HSUPA
Occupied Bandwidth	9262 to 9538	9262, 9400, 9538	WCDMA
Conducted Spurious Emissions	9262 to 9538	9400	WCDMA
Radiated Spurious Emissions	9262 to 9538	9400	WCDMA
Band Edge	9262 to 9538	9262, 9538	WCDMA
Peak To Average Ratio	9262 to 9538	9262, 9400, 9538	WCDMA
Frequency Stability	9262 to 9538	9400	WCDMA

LTE BAND 2 MODE					
Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
Output Power & EIRP	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM, 64QAM	1RB/3RB/6RB
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM, 64QAM	1RB/8RB/15RB
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM, 64QAM	1RB/12RB/25RB
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM, 64QAM	1RB/25RB/50RB
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM, 64QAM	1RB/36RB/75RB
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM, 64QAM	1RB/50RB/100RB
Occupied Bandwidth	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM, 64QAM	6RB
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM, 64QAM	15RB
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM, 64QAM	25RB
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM, 64QAM	50RB
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM, 64QAM	75 RB
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM, 64QAM	100RB
Conducted Spurious Emissions	18607 to 19193	18900	1.4 MHz	QPSK	1RB
	18625 to 19175	18900	5MHz	QPSK	1RB
	18700 to 19100	18900	20MHz	QPSK	1RB
Radiated Spurious Emissions	18607 to 19193	18900	1.4 MHz	QPSK	1RB
	18625 to 19175	18900	5MHz	QPSK	1RB
	18700 to 19100	18900	20MHz	QPSK	1RB
Band Edge	18607 to 19193	18607, 19193	1.4MHz	QPSK	1RB/6RB
	18615 to 19185	18615, 19185	3MHz	QPSK	1RB/15RB
	18625 to 19175	18625, 19175	5MHz	QPSK	1RB/25RB
	18650 to 19150	18650, 19150	10MHz	QPSK	1RB/50RB
	18675 to 19125	18675, 19125	15MHz	QPSK	1RB/75RB
	18700 to 19100	18700, 19100	20MHz	QPSK	1RB/100RB
Peak To Average Ratio	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM, 64QAM	1RB
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM, 64QAM	1RB
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM, 64QAM	1RB
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM, 64QAM	1RB
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM, 64QAM	1RB
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM, 64QAM	1RB
Frequency Stability	18607 to 19193	18900	1.4MHz	QPSK	1RB
	18615 to 19185	18900	3MHz	QPSK	1RB
	18625 to 19175	18900	5MHz	QPSK	1RB
	18650 to 19150	18900	10MHz	QPSK	1RB
	18675 to 19125	18900	15MHz	QPSK	1RB
	18700 to 19100	18900	20MHz	QPSK	1RB

2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



2.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.
-	-	-	-	-

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	USB Cable	NO	NO	1m

3. TEST RESULT

3.1 OUTPUT POWER MEASUREMENT

3.1.1 LIMIT

Mobile / Portable station are limited to 2 watts e.i.r.p.

3.1.2 TEST PROCEDURE

The testing follows FCC KDB 971168 v03r01 Section 5.

EIRP:

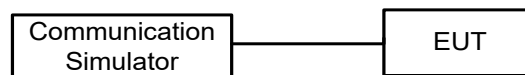
$EIRP = \text{Output Power} + \text{Antenan gain}$

Output Power:

The EUT was set up for the maximum power with GSM, GPRS, EDGE, WCDMA and LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

3.1.3 TEST SETUP LAYOUT

Output Power Measurement



3.1.4 TEST DEVIATION

No deviation

3.1.5 TEST RESULTS

Please refer to the APPENDIX A.

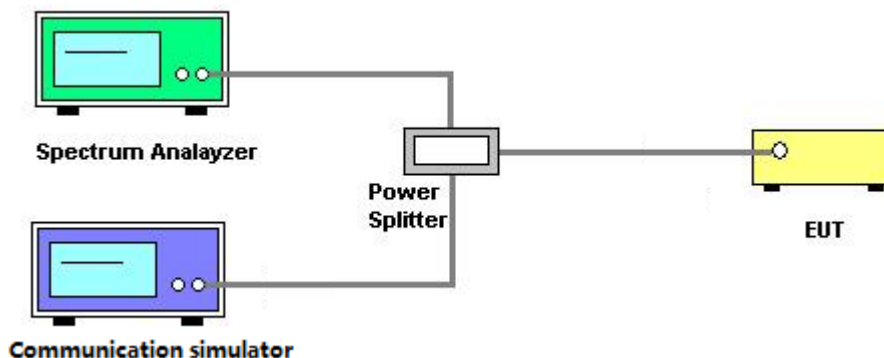
3.2 OCCUPIED BANDWIDTH MEASUREMENT

3.2.1 TEST PROCEDURE

The testing follows FCC KDB 971168 v03r01 Section 4.

1. The EUT makes a call to the communication simulator. All measurements were done at low, middle and high operational frequency range. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth and 26dB bandwidth.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. $RBW = (1\% \sim 5\%) \cdot EBW$
 $VBW \geq 3 \cdot RBW$
4. Set spectrum analyzer with Peak detector.

3.2.2 TEST SETUP LAYOUT



3.2.3 TEST DEVIATION

No deviation

3.2.4 TEST RESULTS

Please refer to the APPENDIX B.

3.3 CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

3.3.1 LIMIT

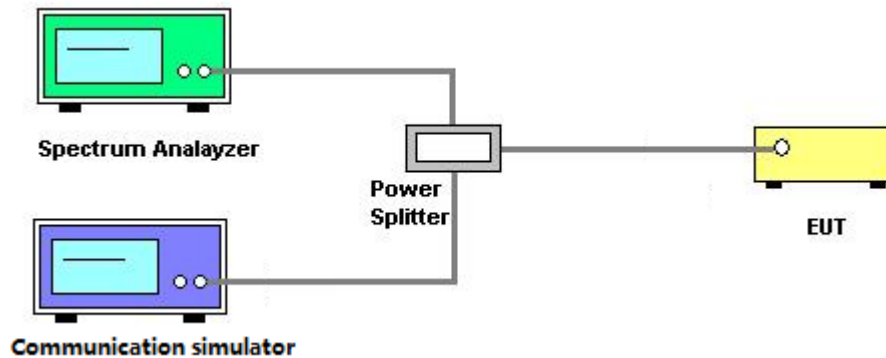
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13dBm.

3.3.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 6.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The band edges of low and high channels for the highest RF powers were measured. Set RBW $\geq 1\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge.
3. Set spectrum analyzer with Peak detector.
4. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.3.3 TEST SETUP LAYOUT



3.3.4 TEST DEVIATION

No deviation

3.3.5 TEST RESULTS

Please refer to the APPENDIX C.

3.4 RADIATED SPURIOUS EMISSIONS MEASUREMENT

3.4.1 LIMIT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13dBm.

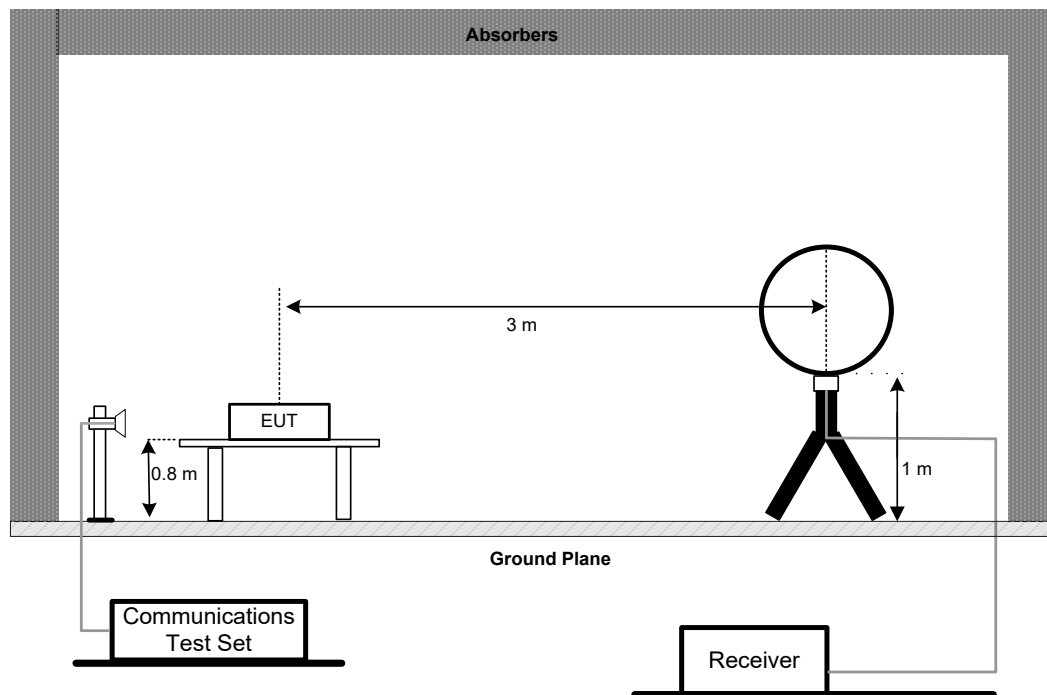
3.4.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 6.2.

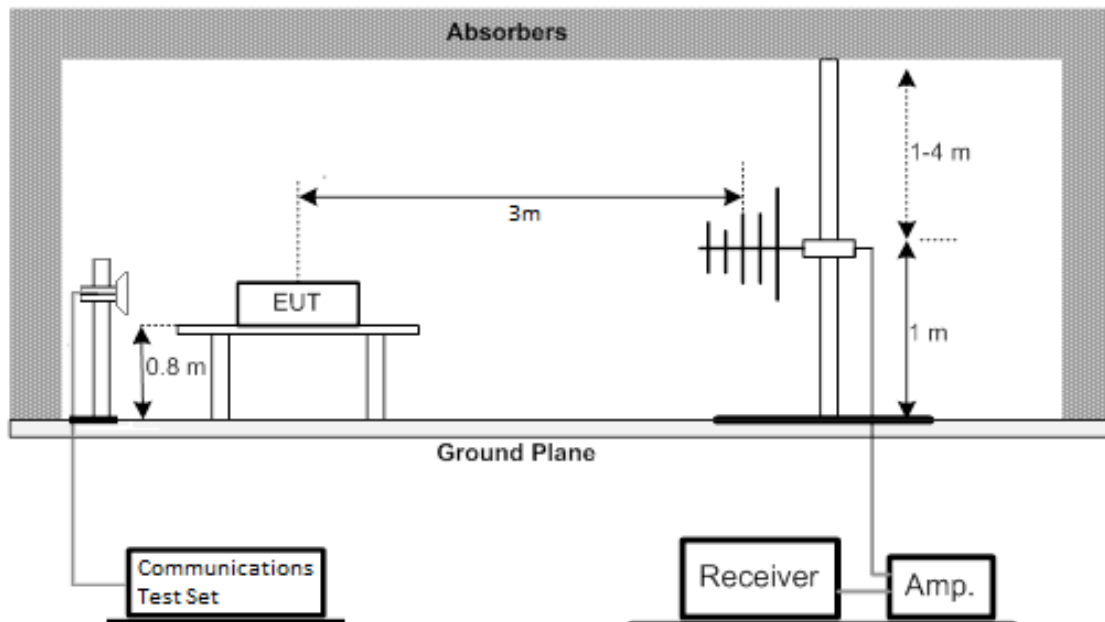
1. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
2. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value " of step a. Record the power level of S.G
3. $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}.$
4. ERP can be calculated form EIRP by subtracting the gain of dipole, $ERP = EIPR - 2.15\text{dBi}.$
5. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

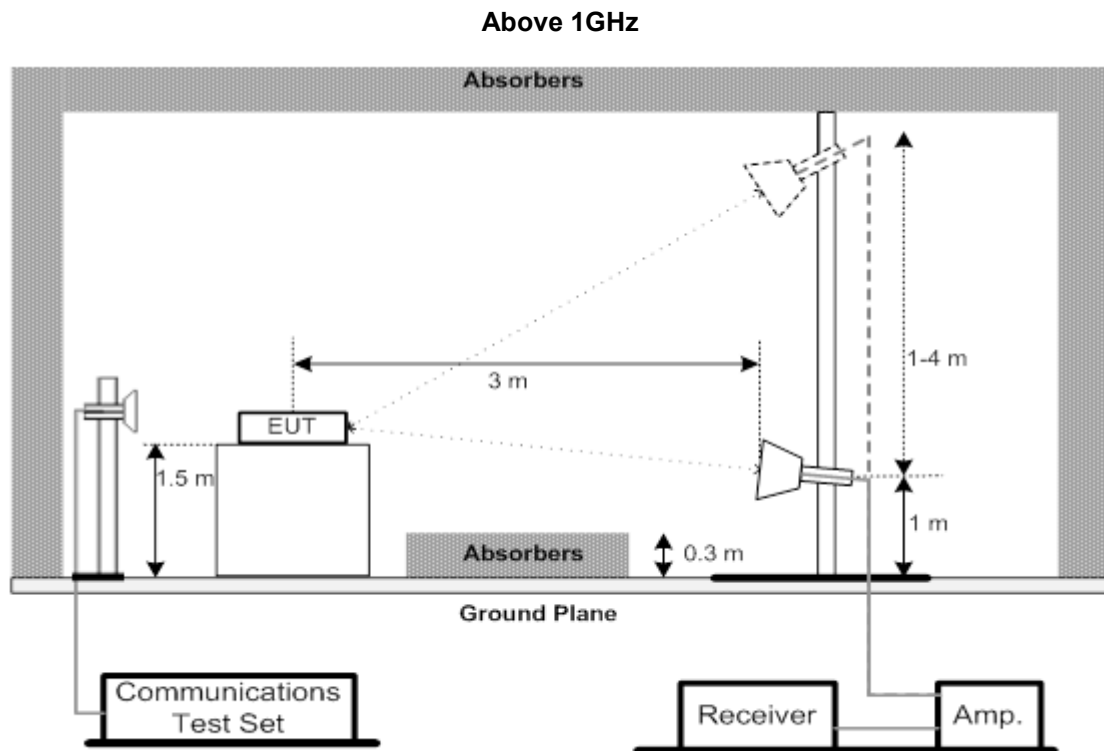
3.4.3 TEST SETUP LAYOUT

Below 30MHz



30MHz to 1000MHz





3.4.4 TEST DEVIATION

No deviation

3.4.5 TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the APPENDIX D.

3.4.6 TEST RESULTS (30MHZ TO 1000MHZ)

Please refer to the APPENDIX E.

3.4.7 TEST RESULTS (ABOVE 1000MHZ)

Please refer to the APPENDIX F.

3.5 BAND EDGE MEASUREMENT

3.5.1 LIMIT

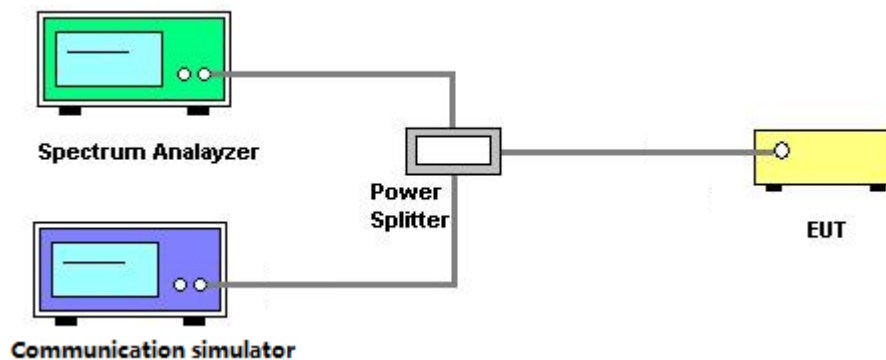
A Power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

3.5.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 6.

1. All measurements were done at low and high operational frequency range.
2. Record the max trace plot into the test report.

3.5.3 TEST SETUP LAYOUT



3.5.4 TEST DEVIATION

No deviation

3.5.5 TEST RESULTS

Please refer to the APPENDIX G.

3.6 PEAK TO AVERAGE RATIO MEASUREMENT

3.6.1 LIMIT

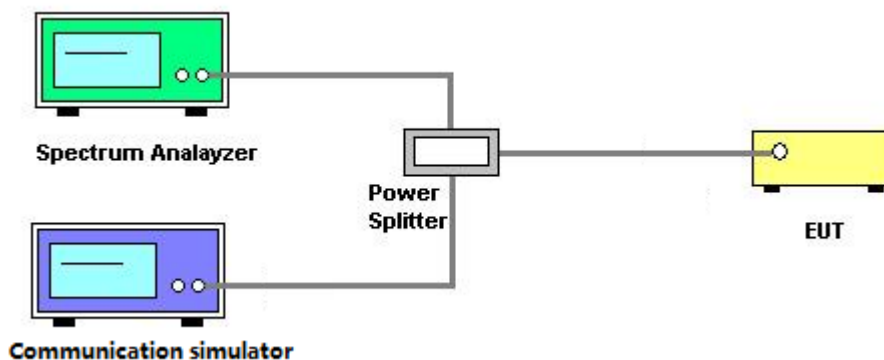
In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB.

3.6.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 5.7.

1. Set resolution/measurement bandwidth $\geq$ 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%.

3.6.3 TEST SETUP LAYOUT



3.6.4 TEST DEVIATION

No deviation

3.6.5 TEST RESULTS

Please refer to the APPENDIX H.

3.7 FREQUENCY STABILITY MEASUREMENT

3.7.1 LIMIT

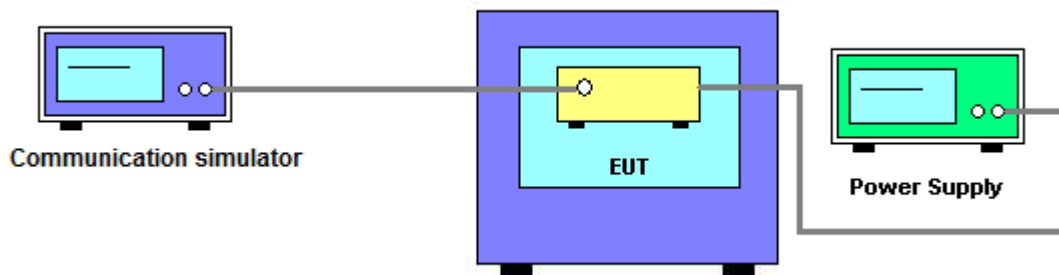
± 1.5 ppm is for base and fixed station. ± 2.5 ppm is for mobile station.

3.7.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 9.

1. Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
2. EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
3. The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the $\pm 0.5^{\circ}\text{C}$ during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.
4. The frequency error was recorded frequency error from the communication simulator.

3.7.3 TEST SETUP LAYOUT



3.7.4 TEST DEVIATION

No deviation

3.7.5 TEST RESULTS

Please refer to the APPENDIX I.

4. LIST OF MEASUREMENT EQUIPMENTS

Radiated Spurious Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarzbeck	VULB9160	9160-3231	Apr. 14, 2022
2	Amplifier	Agilent	8449B	3008A02334	Feb. 27, 2022
3	HighPass Filter	Wairwright Instruments Gmbh	WHK 1.5/15G-10ST	11	Feb. 27, 2022
4	Band Reject Filter	Wairwright Instruments Gmbh	WRCG 1710/1785-1690/1805-60/ 12SS	38	Feb. 27, 2022
5	Band Reject Filter	Wairwright Instruments Gmbh	WRCG 824/849-810/863-60/9SS	7	Feb. 27, 2022
6	Band Reject Filter	Wairwright Instruments Gmbh	WRCG 880/915-860/935-60/9SS	14	Feb. 27, 2022
7	Band Reject Filter	Wairwright Instruments Gmbh	WRCG 1850/1910-1830/1930-60/ 10SS	17	Feb. 27, 2022
8	HighPass Filter	Wairwright Instruments Gmbh	WHK3.1/18G-10SS	24	Feb. 27, 2022
9	Wireless Communication Test SET	Agilent	E5515C	MY48364183	Feb. 28, 2022
10	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Feb. 28, 2022
11	Receiver	Agilent	N9038A	MY52130039	Mar. 19, 2022
12	wideband radio communication tester	R&S	CMW500	152372	Feb. 27, 2022
13	High pass filter	KANGMAIWEI	ZHPF-M3-12.75G-3869	B2015073763	Feb. 07, 2022
14	High pass filter	KANGMAIWEI	ZHPF-M1000-4000-1	B2015073762	Feb. 07, 2022
15	High pass filter	KANGMAIWEI	ZHPF-M6-186-1727	B2015073764	Feb. 07, 2022
16	Cable	emci	LMR-400(30MHz-1GHz) (8m+5m)	N/A	May 20, 2022
17	Cable	mitron	RWLP50-4.0A-KJ-SMSM- 12M	N/A	Nov. 23, 2021
18	Controller	ETS-Lindgren	2090	N/A	N/A
19	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
20	Antenna	EM	EM-6876-1	230	Apr. 28, 2022
21	Double Ridged Guide Antenna	ETS	3115	75846	Mar. 17, 2022
22	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 30, 2022

Conducted Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	8960 Series 10 Wireless Com Test set	Agilent	E5515E	MY52112163	Jul. 24, 2022
2	MXA Signal Analyzer	Keysight	N9020A	MY49100060	Jul. 24, 2022
3	Power Splitter	Mini-Circuits	ZFRSC-183-S+	SF103501511S	Jul. 24, 2022
4	wideband radio communication tester	R&S	CMW500	104462	Jul. 24, 2022
5	Const Temp. & Humidity Chamber	Bell	BTH-50C	20170306001	Feb. 27, 2022
6*	Multi-output DC Power Supply	GW Instek	GPC-3030DN	EK880675	Jul. 25, 2023

Remark: "N/A" denotes no model name, serial no. or calibration specified.

Except * item, all calibration period of equipment list is one year.

"**" calibration period of equipment list is three year.

APPENDIX A - OUTPUT POWER

Output Power For Main Antenna (dBm):

PCS1900		512CH	661CH	810CH
		1850.2MHz	1880MHz	1909.8MHz
GSM (CS)		29.23	29.07	29.03
GPRS/EDGE (GMSK)	1 Tx Slot	29.23	29.05	29.02
	2 Tx Slot	27.28	27.09	27.06
	3 Tx Slot	25.72	25.62	25.58
	4 Tx Slot	24.26	24.05	23.95
EDGE (8PSK)	1 Tx Slot	26.06	25.82	25.76
	2 Tx Slot	23.74	24.15	23.06
	3 Tx Slot	21.88	21.46	21.58
	4 Tx Slot	21.18	20.92	21.05

Modulation	Band	WCDMA Band II		
	Tx Channel	9262CH	9400CH	9538CH
	Frequency	1852.4MHz	1880MHz	1907.6MHz
QPSK	RMC 12.2K	23.42	23.37	23.54
	RMC 64K	23.5	23.46	23.65
	RMC 144K	23.37	23.33	23.52
	RMC 384K	23.44	23.4	23.58
	HSDPA Subtest-1	23.01	23.05	23.2
	HSDPA Subtest-2	22.96	23.01	23.15
	HSDPA Subtest-3	22.45	22.5	22.61
	HSDPA Subtest-4	22.46	22.48	22.6
	HSUPA Subtest-1	21.06	21.05	21.19
	HSUPA Subtest-2	20.52	20.54	20.73
	HSUPA Subtest-3	21.5	21.55	21.61
	HSUPA Subtest-4	21.02	21.06	21.18
	HSUPA Subtest-5	22.02	22.05	22.15

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18607CH	18900CH	19193CH
				1850.7MHz	1880MHz	1909.3MHz
2 / 1.4M	QPSK	1	0	22.41	22.37	22.30
		1	2	22.45	22.41	22.38
		1	5	22.36	22.35	22.29
		3	0	22.48	22.43	22.41
		3	1	22.50	22.44	22.46
		3	2	22.50	22.41	22.45
		6	0	21.59	21.55	21.54
	16QAM	1	0	21.56	21.77	21.46
		1	2	21.63	21.83	21.47
		1	5	21.54	21.76	21.45
		3	0	21.59	21.66	21.64
		3	1	21.58	21.66	21.68
		3	2	21.58	21.64	21.66
		6	0	20.81	20.53	20.82
	64QAM	1	0	21.08	20.70	20.77
		1	2	21.15	20.78	20.82
		1	5	21.01	20.67	20.82
		3	0	21.05	20.73	20.61
		3	1	21.04	20.76	20.62
		3	2	21.03	20.75	20.62
		6	0	19.70	19.96	19.74

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18615CH	18900CH	19185CH
				1851.5MHz	1880MHz	1908.5MHz
2 / 3M	QPSK	1	0	22.18	22.23	22.16
		1	7	22.33	22.35	22.29
		1	14	22.20	22.17	22.16
		8	0	21.45	21.40	21.39
		8	4	21.51	21.46	21.46
		8	7	21.40	21.36	21.38
		15	0	21.41	21.34	21.37
	16QAM	1	0	21.25	21.63	21.34
		1	7	21.36	21.78	21.42
		1	14	21.24	21.63	21.30
		8	0	20.70	20.65	20.56
		8	4	20.72	20.65	20.64
		8	7	20.66	20.56	20.55
		15	0	20.57	20.48	20.43
	64QAM	1	0	20.83	20.57	20.66
		1	7	20.92	20.69	20.77
		1	14	20.76	20.57	20.64
		8	0	19.70	19.58	19.53
		8	4	19.74	19.64	19.60
		8	7	19.62	19.57	19.50
		15	0	19.54	19.53	19.55

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18625CH	18900CH	19175CH
				1852.5MHz	1880MHz	1907.5MHz
2 / 5M	QPSK	1	0	22.57	22.47	22.48
		1	13	22.71	22.56	22.59
		1	24	22.55	22.47	22.49
		12	0	21.44	21.46	21.52
		12	6	21.52	21.51	21.52
		12	11	21.56	21.49	21.50
		25	0	21.52	21.53	21.50
	16QAM	1	0	21.72	22.04	21.63
		1	13	21.85	22.12	21.75
		1	24	21.75	22.04	21.65
		12	0	20.67	20.69	20.62
		12	6	20.77	20.75	20.67
		12	11	20.78	20.69	20.65
		25	0	20.64	20.64	20.52
	64QAM	1	0	20.63	20.90	20.81
		1	13	20.75	21.02	20.93
		1	24	20.64	20.90	20.87
		12	0	19.65	19.53	19.67
		12	6	19.72	19.58	19.71
		12	11	19.76	19.56	19.67
		25	0	19.62	19.57	19.60

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18650CH	18900CH	19150CH
				1855MHz	1880MHz	1905MHz
2 / 10M	QPSK	1	0	22.50	22.62	22.55
		1	25	22.57	22.61	22.58
		1	49	22.52	22.58	22.52
		25	0	21.48	21.51	21.51
		25	13	21.60	21.59	21.57
		25	25	21.59	21.51	21.46
		50	0	21.54	21.53	21.45
	16QAM	1	0	21.56	21.97	21.63
		1	25	21.63	22.01	21.66
		1	49	21.56	21.97	21.63
		25	0	20.63	20.62	20.66
		25	13	20.71	20.70	20.68
		25	25	20.68	20.63	20.56
		50	0	20.64	20.62	20.56
	64QAM	1	0	21.03	20.80	20.87
		1	25	21.08	20.84	20.90
		1	49	21.03	20.81	20.87
		25	0	19.62	19.65	19.63
		25	13	19.76	19.76	19.69
		25	25	19.70	19.67	19.62
		50	0	19.66	19.68	19.55

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18675CH	18900CH	19125CH
				1857.5MHz	1880MHz	1902.5MHz
2 / 15M	QPSK	1	0	22.47	22.54	22.51
		1	38	22.56	22.62	22.61
		1	74	22.48	22.54	22.51
		36	0	21.52	21.52	21.51
		36	18	21.56	21.55	21.56
		36	39	21.52	21.51	21.50
		75	0	21.54	21.53	21.50
	16QAM	1	0	21.53	21.90	22.00
		1	38	21.61	21.97	22.08
		1	74	21.51	21.91	21.95
		36	0	20.57	20.60	20.57
		36	18	20.64	20.64	20.60
		36	39	20.58	20.58	20.53
		75	0	20.63	20.62	20.58
	64QAM	1	0	20.98	20.73	21.19
		1	38	21.03	20.82	21.25
		1	74	20.96	20.72	21.22
		36	0	19.63	19.67	19.59
		36	18	19.68	19.67	19.64
		36	39	19.67	19.64	19.55
		75	0	19.64	19.62	19.62

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18700CH	18900CH	19100CH
				1860MHz	1880MHz	1900MHz
2 / 20M	QPSK	1	0	22.47	22.47	22.42
		1	50	22.63	22.59	22.60
		1	99	22.50	22.44	22.42
		50	0	21.54	21.49	21.54
		50	25	21.62	21.61	21.59
		50	50	21.64	21.53	21.50
		100	0	21.56	21.55	21.53
	16QAM	1	0	22.05	21.96	21.88
		1	50	22.24	22.09	22.07
		1	99	22.03	21.95	21.87
		50	0	20.68	20.61	20.61
		50	25	20.76	20.68	20.62
		50	50	20.75	20.65	20.52
		100	0	20.69	20.62	20.59
	64QAM	1	0	20.91	21.17	20.76
		1	50	21.05	21.35	20.95
		1	99	20.92	21.20	20.78
		50	0	19.70	19.60	19.61
		50	25	19.75	19.72	19.67
		50	50	19.73	19.64	19.57
		100	0	19.66	19.60	19.60

EIRP For Main Antenna (dBm):

PCS1900		512CH	661CH	810CH
		1850.2MHz	1880MHz	1909.8MHz
GSM (CS)		30.33	30.17	30.13
GPRS/EDGE (GMSK)	1 Tx Slot	30.33	30.15	30.12
	2 Tx Slot	28.38	28.19	28.16
	3 Tx Slot	26.82	26.72	26.68
	4 Tx Slot	25.36	25.15	25.05
EDGE (8PSK)	1 Tx Slot	27.16	26.92	26.86
	2 Tx Slot	24.84	25.25	24.16
	3 Tx Slot	22.98	22.56	22.68
	4 Tx Slot	22.28	22.02	22.15

Modulation	Band	WCDMA Band II		
	Tx Channel	9262CH	9400CH	9538CH
	Frequency	1852.4MHz	1880MHz	1907.6MHz
QPSK	RMC 12.2K	24.52	24.47	24.64
	RMC 64K	24.60	24.56	24.75
	RMC 144K	24.47	24.43	24.62
	RMC 384K	24.54	24.50	24.68
	HSDPA Subtest-1	24.11	24.15	24.30
	HSDPA Subtest-2	24.06	24.11	24.25
	HSDPA Subtest-3	23.55	23.60	23.71
	HSDPA Subtest-4	23.56	23.58	23.70
	HSUPA Subtest-1	22.16	22.15	22.29
	HSUPA Subtest-2	21.62	21.64	21.83
	HSUPA Subtest-3	22.60	22.65	22.71
	HSUPA Subtest-4	22.12	22.16	22.28
	HSUPA Subtest-5	23.12	23.15	23.25

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18607CH	18900CH	19193CH
				1850.7MHz	1880MHz	1909.3MHz
2 / 1.4M	QPSK	1	0	23.51	23.47	23.40
		1	2	23.55	23.51	23.48
		1	5	23.46	23.45	23.39
		3	0	23.58	23.53	23.51
		3	1	23.60	23.54	23.56
		3	2	23.60	23.51	23.55
		6	0	22.69	22.65	22.64
	16QAM	1	0	22.66	22.87	22.56
		1	2	22.73	22.93	22.57
		1	5	22.64	22.86	22.55
		3	0	22.69	22.76	22.74
		3	1	22.68	22.76	22.78
		3	2	22.68	22.74	22.76
		6	0	21.91	21.63	21.92
	64QAM	1	0	22.18	21.80	21.87
		1	2	22.25	21.88	21.92
		1	5	22.11	21.77	21.92
		3	0	22.15	21.83	21.71
		3	1	22.14	21.86	21.72
		3	2	22.13	21.85	21.72
		6	0	20.80	21.06	20.84

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18615CH	18900CH	19185CH
				1851.5MHz	1880MHz	1908.5MHz
2 / 3M	QPSK	1	0	23.28	23.33	23.26
		1	7	23.43	23.45	23.39
		1	14	23.30	23.27	23.26
		8	0	22.55	22.50	22.49
		8	4	22.61	22.56	22.56
		8	7	22.50	22.46	22.48
		15	0	22.51	22.44	22.47
	16QAM	1	0	22.35	22.73	22.44
		1	7	22.46	22.88	22.52
		1	14	22.34	22.73	22.40
		8	0	21.80	21.75	21.66
		8	4	21.82	21.75	21.74
		8	7	21.76	21.66	21.65
		15	0	21.67	21.58	21.53
	64QAM	1	0	21.93	21.67	21.76
		1	7	22.02	21.79	21.87
		1	14	21.86	21.67	21.74
		8	0	20.80	20.68	20.63
		8	4	20.84	20.74	20.70
		8	7	20.72	20.67	20.60
		15	0	20.64	20.63	20.65

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18625CH	18900CH	19175CH
				1852.5MHz	1880MHz	1907.5MHz
2 / 5M	QPSK	1	0	23.67	23.57	23.58
		1	13	23.81	23.66	23.69
		1	24	23.65	23.57	23.59
		12	0	22.54	22.56	22.62
		12	6	22.62	22.61	22.62
		12	11	22.66	22.59	22.60
		25	0	22.62	22.63	22.60
	16QAM	1	0	22.82	23.14	22.73
		1	13	22.95	23.22	22.85
		1	24	22.85	23.14	22.75
		12	0	21.77	21.79	21.72
		12	6	21.87	21.85	21.77
		12	11	21.88	21.79	21.75
		25	0	21.74	21.74	21.62
	64QAM	1	0	21.73	22.00	21.91
		1	13	21.85	22.12	22.03
		1	24	21.74	22.00	21.97
		12	0	20.75	20.63	20.77
		12	6	20.82	20.68	20.81
		12	11	20.86	20.66	20.77
		25	0	20.72	20.67	20.70

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18650CH	18900CH	19150CH
				1855MHz	1880MHz	1905MHz
2 / 10M	QPSK	1	0	23.60	23.72	23.65
		1	25	23.67	23.71	23.68
		1	49	23.62	23.68	23.62
		25	0	22.58	22.61	22.61
		25	13	22.70	22.69	22.67
		25	25	22.69	22.61	22.56
		50	0	22.64	22.63	22.55
	16QAM	1	0	22.66	23.07	22.73
		1	25	22.73	23.11	22.76
		1	49	22.66	23.07	22.73
		25	0	21.73	21.72	21.76
		25	13	21.81	21.80	21.78
		25	25	21.78	21.73	21.66
		50	0	21.74	21.72	21.66
	64QAM	1	0	22.13	21.90	21.97
		1	25	22.18	21.94	22.00
		1	49	22.13	21.91	21.97
		25	0	20.72	20.75	20.73
		25	13	20.86	20.86	20.79
		25	25	20.80	20.77	20.72
		50	0	20.76	20.78	20.65

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18675CH	18900CH	19125CH
				1857.5MHz	1880MHz	1902.5MHz
2 / 15M	QPSK	1	0	23.57	23.64	23.61
		1	38	23.66	23.72	23.71
		1	74	23.58	23.64	23.61
		36	0	22.62	22.62	22.61
		36	18	22.66	22.65	22.66
		36	39	22.62	22.61	22.60
		75	0	22.64	22.63	22.60
	16QAM	1	0	22.63	23.00	23.10
		1	38	22.71	23.07	23.18
		1	74	22.61	23.01	23.05
		36	0	21.67	21.70	21.67
		36	18	21.74	21.74	21.70
		36	39	21.68	21.68	21.63
		75	0	21.73	21.72	21.68
	64QAM	1	0	22.08	21.83	22.29
		1	38	22.13	21.92	22.35
		1	74	22.06	21.82	22.32
		36	0	20.73	20.77	20.69
		36	18	20.78	20.77	20.74
		36	39	20.77	20.74	20.65
		75	0	20.74	20.72	20.72

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18700CH	18900CH	19100CH
				1860MHz	1880MHz	1900MHz
2 / 20M	QPSK	1	0	23.57	23.57	23.52
		1	50	23.73	23.69	23.70
		1	99	23.60	23.54	23.52
		50	0	22.64	22.59	22.64
		50	25	22.72	22.71	22.69
		50	50	22.74	22.63	22.60
		100	0	22.66	22.65	22.63
	16QAM	1	0	23.15	23.06	22.98
		1	50	23.34	23.19	23.17
		1	99	23.13	23.05	22.97
		50	0	21.78	21.71	21.71
		50	25	21.86	21.78	21.72
		50	50	21.85	21.75	21.62
		100	0	21.79	21.72	21.69
	64QAM	1	0	22.01	22.27	21.86
		1	50	22.15	22.45	22.05
		1	99	22.02	22.30	21.88
		50	0	20.80	20.70	20.71
		50	25	20.85	20.82	20.77
		50	50	20.83	20.74	20.67
		100	0	20.76	20.70	20.70

Output Power For Second Antenna (dBm):

PCS1900		512CH	661CH	810CH
		1850.2MHz	1880MHz	1909.8MHz
GSM (CS)		29.03	28.84	28.72
GPRS/EDGE (GMSK)	1 Tx Slot	29.04	28.84	28.72
	2 Tx Slot	27.19	26.95	26.83
	3 Tx Slot	25.72	25.68	25.55
	4 Tx Slot	24.17	23.93	23.74
EDGE (8PSK)	1 Tx Slot	26.15	25.78	25.72
	2 Tx Slot	23.56	23.42	23.46
	3 Tx Slot	21.69	21.43	21.12
	4 Tx Slot	20.93	21.05	20.95

Modulation	Band	WCDMA Band II		
	Tx Channel	9262CH	9400CH	9538CH
	Frequency	1852.4MHz	1880MHz	1907.6MHz
QPSK	RMC 12.2K	22.89	22.79	23
	RMC 64K	23.02	22.91	23.12
	RMC 144K	23.03	22.92	23.14
	RMC 384K	23.04	22.93	23.15
	HSDPA Subtest-1	22.53	22.56	22.57
	HSDPA Subtest-2	22.56	22.6	22.75
	HSDPA Subtest-3	22.06	22.08	22.24
	HSDPA Subtest-4	22.05	22.05	22.23
	HSUPA Subtest-1	20.66	20.67	19.81
	HSUPA Subtest-2	20.09	20.14	20.3
	HSUPA Subtest-3	20.13	20.18	20.26
	HSUPA Subtest-4	20.63	20.64	20.81
	HSUPA Subtest-5	21.66	21.66	21.75

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18607CH	18900CH	19193CH
				1850.7MHz	1880MHz	1909.3MHz
2 / 1.4M	QPSK	1	0	22.38	22.44	22.50
		1	2	22.47	22.49	22.54
		1	5	22.38	22.42	22.49
		3	0	22.51	22.50	22.59
		3	1	22.55	22.52	22.62
		3	2	22.57	22.50	22.57
		6	0	21.61	21.62	21.67
	16QAM	1	0	21.52	21.59	21.89
		1	2	21.55	21.63	21.93
		1	5	21.51	21.58	21.91
		3	0	21.74	21.59	21.81
		3	1	21.78	21.59	21.79
		3	2	21.77	21.59	21.79
		6	0	20.87	20.84	20.66
	64QAM	1	0	21.06	20.74	20.89
		1	2	21.18	20.83	20.92
		1	5	21.06	20.71	20.93
		3	0	21.07	20.80	20.70
		3	1	21.06	20.82	20.71
		3	2	21.07	20.82	20.71
		6	0	19.71	19.98	19.86

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18615CH	18900CH	19185CH
				1851.5MHz	1880MHz	1908.5MHz
2 / 3M	QPSK	1	0	22.25	22.35	22.31
		1	7	22.38	22.45	22.42
		1	14	22.29	22.32	22.31
		8	0	21.52	21.52	21.54
		8	4	21.55	21.58	21.61
		8	7	21.48	21.48	21.53
		15	0	21.52	21.46	21.51
	16QAM	1	0	21.28	21.72	21.45
		1	7	21.40	21.83	21.54
		1	14	21.27	21.66	21.40
		8	0	20.74	20.67	20.69
		8	4	20.76	20.72	20.74
		8	7	20.67	20.63	20.65
		15	0	20.61	20.55	20.56
	64QAM	1	0	20.85	20.61	20.77
		1	7	20.94	20.75	20.87
		1	14	20.87	20.62	20.72
		8	0	19.72	19.65	19.61
		8	4	19.75	19.71	19.70
		8	7	19.63	19.63	19.58
		15	0	19.55	19.58	19.64

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18625CH	18900CH	19175CH
				1852.5MHz	1880MHz	1907.5MHz
2 / 5M	QPSK	1	0	22.65	22.56	22.61
		1	13	22.78	22.63	22.73
		1	24	22.65	22.55	22.66
		12	0	21.56	21.56	21.64
		12	6	21.64	21.62	21.67
		12	11	21.66	21.57	21.64
		25	0	21.62	21.61	21.66
	16QAM	1	0	21.76	22.11	21.73
		1	13	21.92	22.22	21.86
		1	24	21.80	22.06	21.72
		12	0	20.72	20.79	20.77
		12	6	20.80	20.83	20.78
		12	11	20.83	20.77	20.77
		25	0	20.69	20.70	20.65
	64QAM	1	0	20.63	20.95	20.91
		1	13	20.75	21.08	21.04
		1	24	20.63	20.97	20.95
		12	0	19.66	19.62	19.79
		12	6	19.75	19.64	19.81
		12	11	19.77	19.59	19.78
		25	0	19.62	19.61	19.68

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18650CH	18900CH	19150CH
				1855MHz	1880MHz	1905MHz
2 / 10M	QPSK	1	0	22.56	22.67	22.67
		1	25	22.65	22.70	22.69
		1	49	22.62	22.64	22.64
		25	0	21.56	21.60	21.66
		25	13	21.69	21.68	21.67
		25	25	21.66	21.64	21.55
		50	0	21.63	21.60	21.59
	16QAM	1	0	21.61	22.02	21.72
		1	25	21.68	22.07	21.76
		1	49	21.63	22.03	21.72
		25	0	20.64	20.67	20.76
		25	13	20.79	20.76	20.78
		25	25	20.75	20.65	20.68
		50	0	20.67	20.67	20.68
	64QAM	1	0	21.03	20.88	20.93
		1	25	21.09	20.89	21.00
		1	49	21.02	20.88	20.96
		25	0	19.62	19.70	19.74
		25	13	19.81	19.79	19.81
		25	25	19.72	19.73	19.68
		50	0	19.68	19.73	19.63

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18675CH	18900CH	19125CH
				1857.5MHz	1880MHz	1902.5MHz
2 / 15M	QPSK	1	0	22.54	22.62	22.59
		1	38	22.62	22.69	22.71
		1	74	22.52	22.63	22.66
		36	0	21.55	21.59	21.63
		36	18	21.61	21.63	21.69
		36	39	21.60	21.56	21.61
		75	0	21.58	21.59	21.61
	16QAM	1	0	21.56	21.97	22.11
		1	38	21.68	22.04	22.16
		1	74	21.56	22.01	22.05
		36	0	20.57	20.68	20.63
		36	18	20.68	20.69	20.68
		36	39	20.64	20.68	20.59
		75	0	20.64	20.70	20.64
	64QAM	1	0	21.01	20.75	21.30
		1	38	21.08	20.85	21.35
		1	74	20.98	20.81	21.31
		36	0	19.64	19.72	19.66
		36	18	19.70	19.75	19.72
		36	39	19.69	19.71	19.64
		75	0	19.67	19.71	19.72

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18700CH	18900CH	19100CH
				1860MHz	1880MHz	1900MHz
2 / 20M	QPSK	1	0	22.49	22.50	22.53
		1	50	22.70	22.64	22.69
		1	99	22.57	22.54	22.52
		50	0	21.59	21.61	21.63
		50	25	21.68	21.67	21.69
		50	50	21.66	21.63	21.56
		100	0	21.60	21.63	21.59
	16QAM	1	0	22.06	21.99	22.13
		1	50	22.26	22.15	22.32
		1	99	22.07	22.00	22.15
		50	0	20.71	20.67	20.75
		50	25	20.77	20.75	20.79
		50	50	20.77	20.70	20.65
		100	0	20.70	20.70	20.69
	64QAM	1	0	20.89	20.92	21.27
		1	50	21.03	21.10	21.46
		1	99	20.86	20.95	21.33
		50	0	19.71	19.72	19.72
		50	25	19.83	19.78	19.78
		50	50	19.78	19.74	19.66
		100	0	19.71	19.69	19.62

EIRP For Second Antenna (dBm):

PCS1900		512CH	661CH	810CH
		1850.2MHz	1880MHz	1909.8MHz
GSM (CS)		30.13	29.94	29.82
GPRS/EDGE (GMSK)	1 Tx Slot	30.14	29.94	29.82
	2 Tx Slot	28.29	28.05	27.93
	3 Tx Slot	26.82	26.78	26.65
	4 Tx Slot	25.27	25.03	24.84
EDGE (8PSK)	1 Tx Slot	27.25	26.88	26.82
	2 Tx Slot	24.66	24.52	24.56
	3 Tx Slot	22.79	22.53	22.22
	4 Tx Slot	22.03	22.15	22.05

Modulation	Band	WCDMA Band II		
	Tx Channel	9262CH	9400CH	9538CH
	Frequency	1852.4MHz	1880MHz	1907.6MHz
QPSK	RMC 12.2K	23.99	23.89	24.10
	RMC 64K	24.12	24.01	24.22
	RMC 144K	24.13	24.02	24.24
	RMC 384K	24.14	24.03	24.25
	HSDPA Subtest-1	23.63	23.66	23.67
	HSDPA Subtest-2	23.66	23.70	23.85
	HSDPA Subtest-3	23.16	23.18	23.34
	HSDPA Subtest-4	23.15	23.15	23.33
	HSUPA Subtest-1	21.76	21.77	20.91
	HSUPA Subtest-2	21.19	21.24	21.40
	HSUPA Subtest-3	21.23	21.28	21.36
	HSUPA Subtest-4	21.73	21.74	21.91
	HSUPA Subtest-5	22.76	22.76	22.85

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18607CH	18900CH	19193CH
				1850.7MHz	1880MHz	1909.3MHz
2 / 1.4M	QPSK	1	0	23.48	23.54	23.60
		1	2	23.57	23.59	23.64
		1	5	23.48	23.52	23.59
		3	0	23.61	23.60	23.69
		3	1	23.65	23.62	23.72
		3	2	23.67	23.60	23.67
		6	0	22.71	22.72	22.77
	16QAM	1	0	22.62	22.69	22.99
		1	2	22.65	22.73	23.03
		1	5	22.61	22.68	23.01
		3	0	22.84	22.69	22.91
		3	1	22.88	22.69	22.89
		3	2	22.87	22.69	22.89
		6	0	21.97	21.94	21.76
	64QAM	1	0	22.16	21.84	21.99
		1	2	22.28	21.93	22.02
		1	5	22.16	21.81	22.03
		3	0	22.17	21.90	21.80
		3	1	22.16	21.92	21.81
		3	2	22.17	21.92	21.81
		6	0	20.81	21.08	20.96

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18615CH	18900CH	19185CH
				1851.5MHz	1880MHz	1908.5MHz
2 / 3M	QPSK	1	0	23.35	23.45	23.41
		1	7	23.48	23.55	23.52
		1	14	23.39	23.42	23.41
		8	0	22.62	22.62	22.64
		8	4	22.65	22.68	22.71
		8	7	22.58	22.58	22.63
		15	0	22.62	22.56	22.61
	16QAM	1	0	22.38	22.82	22.55
		1	7	22.50	22.93	22.64
		1	14	22.37	22.76	22.50
		8	0	21.84	21.77	21.79
		8	4	21.86	21.82	21.84
		8	7	21.77	21.73	21.75
		15	0	21.71	21.65	21.66
	64QAM	1	0	21.95	21.71	21.87
		1	7	22.04	21.85	21.97
		1	14	21.97	21.72	21.82
		8	0	20.82	20.75	20.71
		8	4	20.85	20.81	20.80
		8	7	20.73	20.73	20.68
		15	0	20.65	20.68	20.74

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18625CH	18900CH	19175CH
				1852.5MHz	1880MHz	1907.5MHz
2 / 5M	QPSK	1	0	23.75	23.66	23.71
		1	13	23.88	23.73	23.83
		1	24	23.75	23.65	23.76
		12	0	22.66	22.66	22.74
		12	6	22.74	22.72	22.77
		12	11	22.76	22.67	22.74
		25	0	22.72	22.71	22.76
	16QAM	1	0	22.86	23.21	22.83
		1	13	23.02	23.32	22.96
		1	24	22.90	23.16	22.82
		12	0	21.82	21.89	21.87
		12	6	21.90	21.93	21.88
		12	11	21.93	21.87	21.87
		25	0	21.79	21.80	21.75
	64QAM	1	0	21.73	22.05	22.01
		1	13	21.85	22.18	22.14
		1	24	21.73	22.07	22.05
		12	0	20.76	20.72	20.89
		12	6	20.85	20.74	20.91
		12	11	20.87	20.69	20.88
		25	0	20.72	20.71	20.78

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18650CH	18900CH	19150CH
				1855MHz	1880MHz	1905MHz
2 / 10M	QPSK	1	0	23.66	23.77	23.77
		1	25	23.75	23.80	23.79
		1	49	23.72	23.74	23.74
		25	0	22.66	22.70	22.76
		25	13	22.79	22.78	22.77
		25	25	22.76	22.74	22.65
		50	0	22.73	22.70	22.69
	16QAM	1	0	22.71	23.12	22.82
		1	25	22.78	23.17	22.86
		1	49	22.73	23.13	22.82
		25	0	21.74	21.77	21.86
		25	13	21.89	21.86	21.88
		25	25	21.85	21.75	21.78
		50	0	21.77	21.77	21.78
	64QAM	1	0	22.13	21.98	22.03
		1	25	22.19	21.99	22.10
		1	49	22.12	21.98	22.06
		25	0	20.72	20.80	20.84
		25	13	20.91	20.89	20.91
		25	25	20.82	20.83	20.78
		50	0	20.78	20.83	20.73

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18675CH	18900CH	19125CH
				1857.5MHz	1880MHz	1902.5MHz
2 / 15M	QPSK	1	0	23.64	23.72	23.69
		1	38	23.72	23.79	23.81
		1	74	23.62	23.73	23.76
		36	0	22.65	22.69	22.73
		36	18	22.71	22.73	22.79
		36	39	22.70	22.66	22.71
		75	0	22.68	22.69	22.71
	16QAM	1	0	22.66	23.07	23.21
		1	38	22.78	23.14	23.26
		1	74	22.66	23.11	23.15
		36	0	21.67	21.78	21.73
		36	18	21.78	21.79	21.78
		36	39	21.74	21.78	21.69
		75	0	21.74	21.80	21.74
	64QAM	1	0	22.11	21.85	22.40
		1	38	22.18	21.95	22.45
		1	74	22.08	21.91	22.41
		36	0	20.74	20.82	20.76
		36	18	20.80	20.85	20.82
		36	39	20.79	20.81	20.74
		75	0	20.77	20.81	20.82

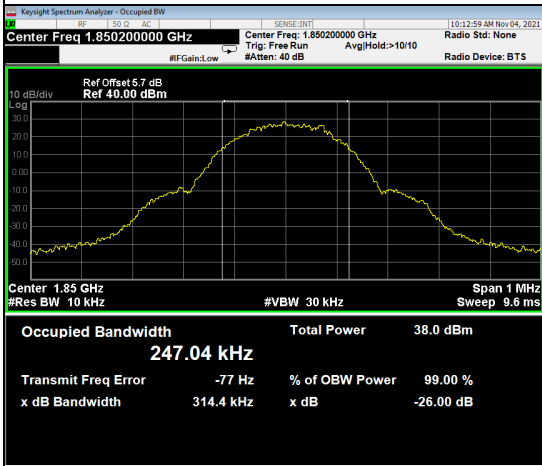
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18700CH	18900CH	19100CH
				1860MHz	1880MHz	1900MHz
2 / 20M	QPSK	1	0	23.59	23.60	23.63
		1	50	23.80	23.74	23.79
		1	99	23.67	23.64	23.62
		50	0	22.69	22.71	22.73
		50	25	22.78	22.77	22.79
		50	50	22.76	22.73	22.66
		100	0	22.70	22.73	22.69
	16QAM	1	0	23.16	23.09	23.23
		1	50	23.36	23.25	23.42
		1	99	23.17	23.10	23.25
		50	0	21.81	21.77	21.85
		50	25	21.87	21.85	21.89
		50	50	21.87	21.80	21.75
		100	0	21.80	21.80	21.79
	64QAM	1	0	21.99	22.02	22.37
		1	50	22.13	22.20	22.56
		1	99	21.96	22.05	22.43
		50	0	20.81	20.82	20.82
		50	25	20.93	20.88	20.88
		50	50	20.88	20.84	20.76
		100	0	20.81	20.79	20.72

APPENDIX B - OCCUPIED BANDWIDTH

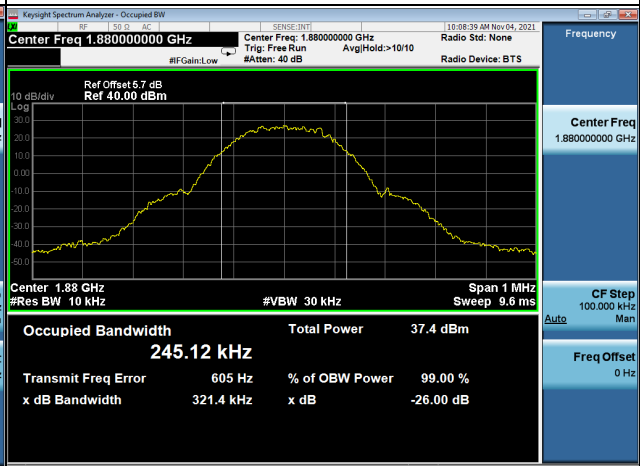
PCS1900					
GSM			EDGE		
CS			8PSK		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
512	1850.2	0.2470	512	1850.2	0.2475
661	1880	0.2451	661	1880	0.2492
810	1909.8	0.2441	810	1909.8	0.2476
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
512	1850.2	0.3144	512	1850.2	0.3179
661	1880	0.3214	661	1880	0.3191
810	1909.8	0.3155	810	1909.8	0.3174

Spectrum Plot

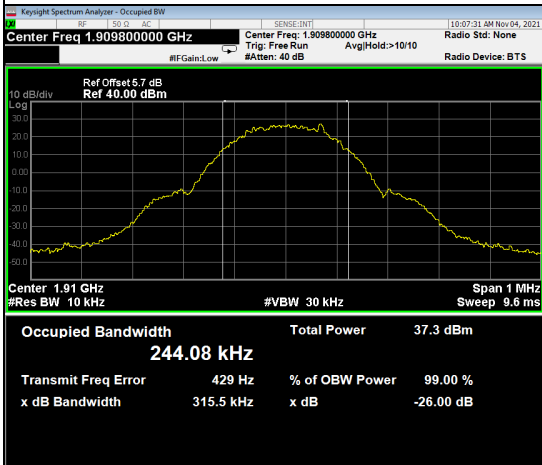
GSM-512



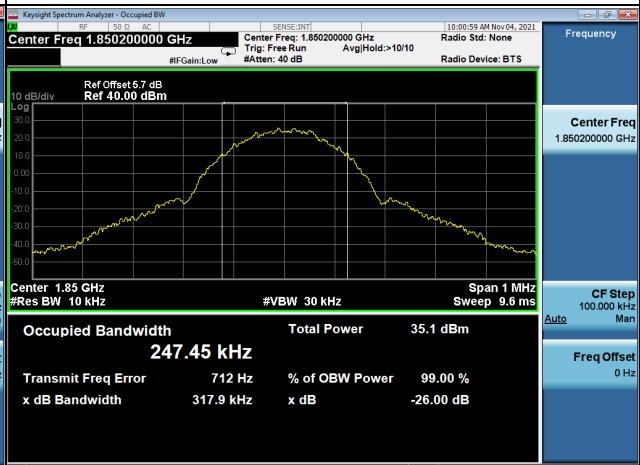
GSM-661



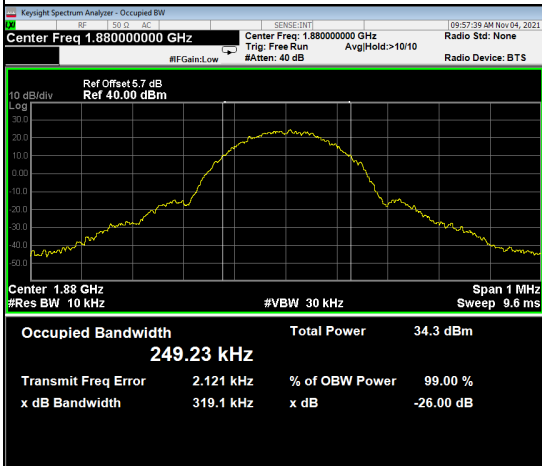
GSM-810



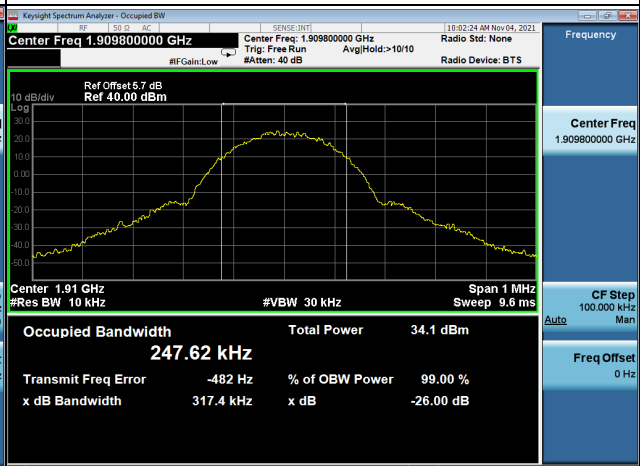
EDGE-512



EDGE-661



EDGE-810



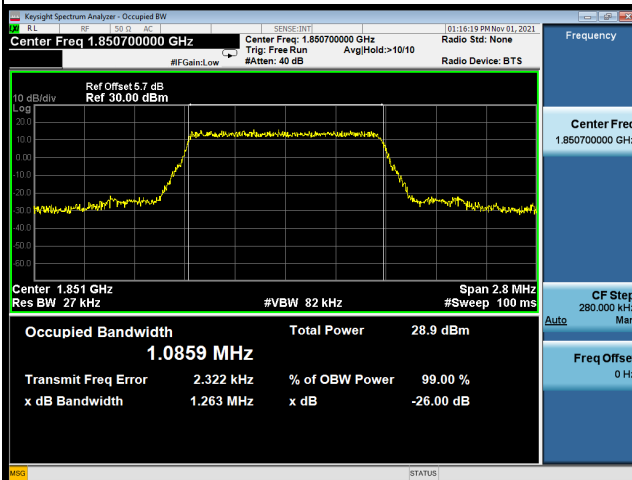
WCDMA Band II_WCDMA					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
9262	1852.4	4.1550	9262	1852.4	4.707
9400	1880	4.1573	9400	1880	4.709
9538	1907.6	4.1641	9538	1907.6	4.704



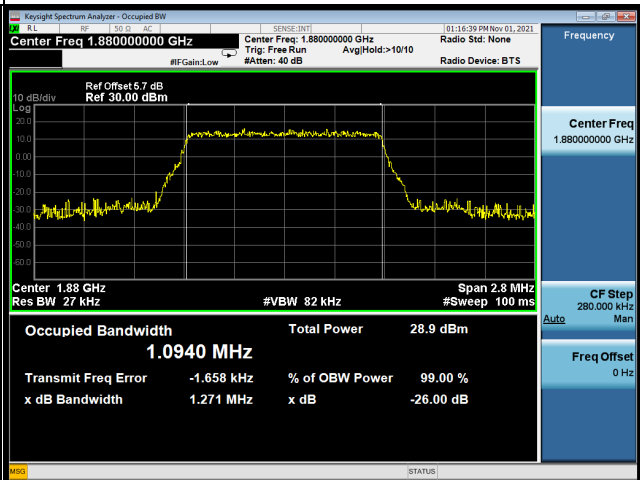
LTE Band 2_1.4M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
18607	1850.7	1.0859	18607	1850.7	1.263
18900	1880	1.0940	18900	1880	1.271
19193	1909.3	1.0979	19193	1909.3	1.288
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
18607	1850.7	1.0909	18607	1850.7	1.279
18900	1880	1.0911	18900	1880	1.279
19193	1909.3	1.0913	19193	1909.3	1.285
64QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
18607	1850.7	1.0864	18607	1850.7	1.265
18900	1880	1.0866	18900	1880	1.286
19193	1909.3	1.0839	19193	1909.3	1.262

Spectrum Plot

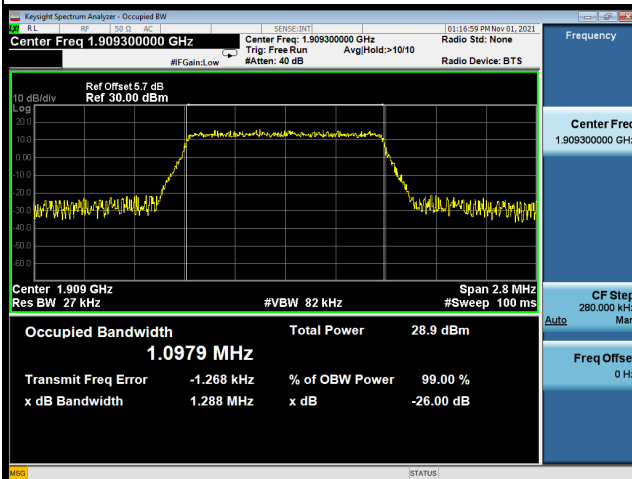
QPSK-18607



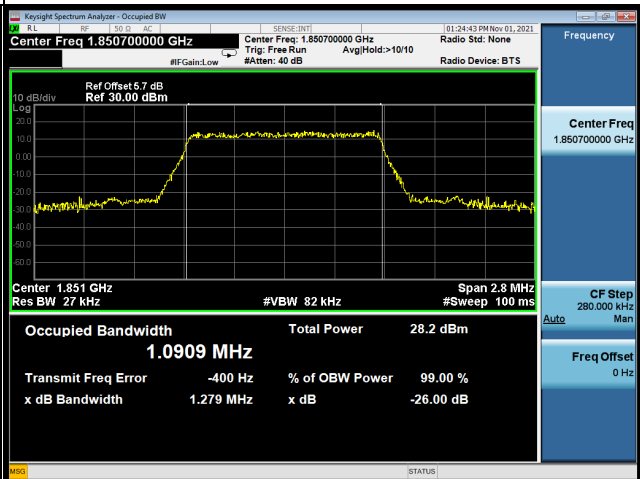
QPSK-18900



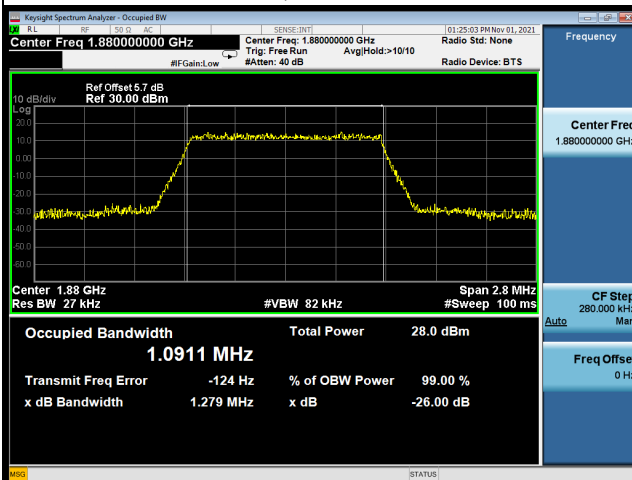
QPSK-19193



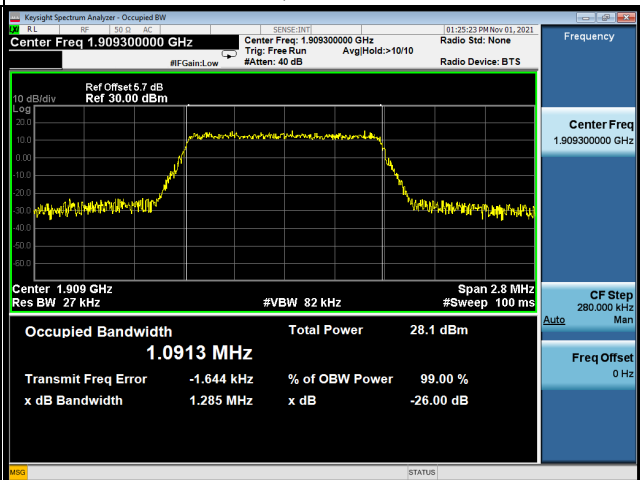
16QAM-18607



16QAM-18900

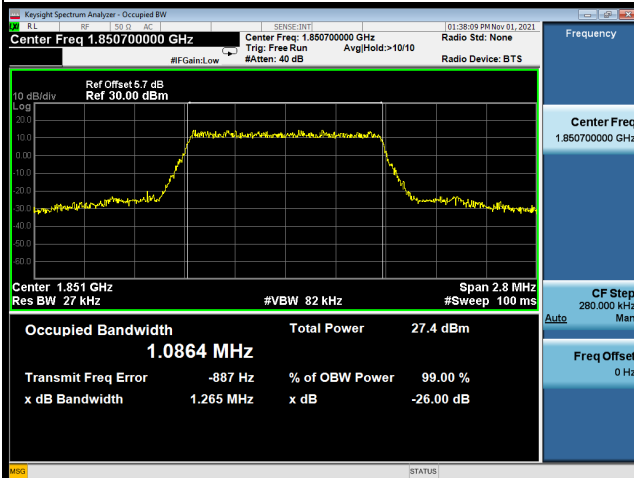


16QAM-19193

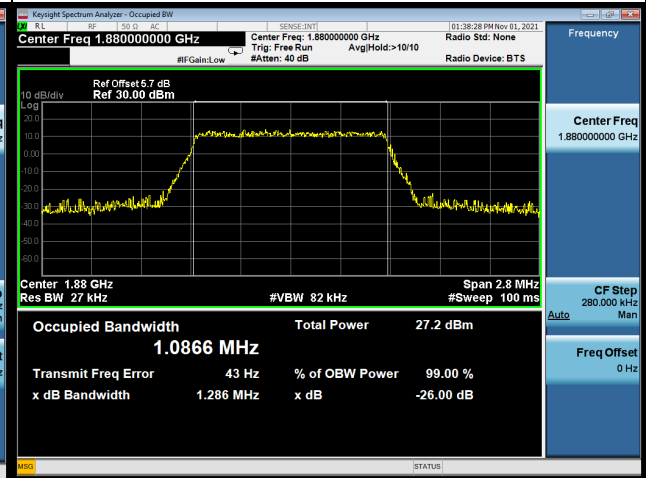


Spectrum Plot

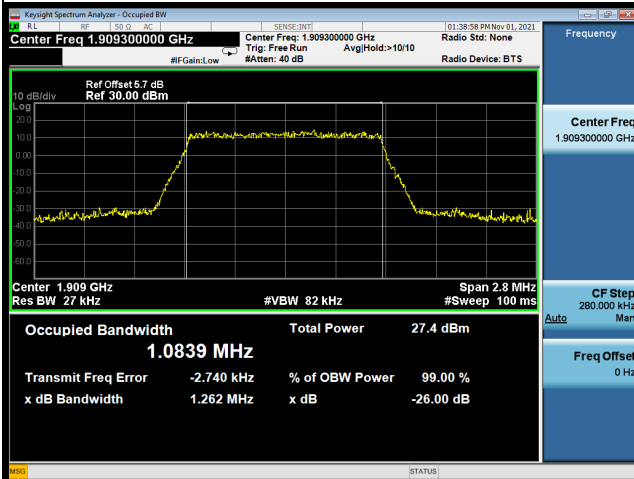
64QAM-18607



64QAM-18900



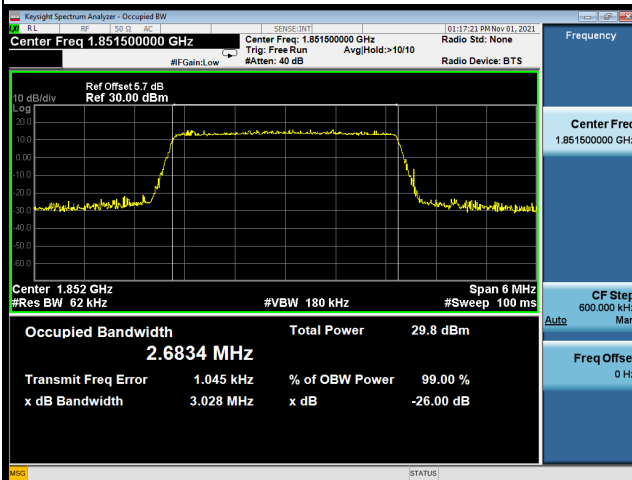
64QAM-19193



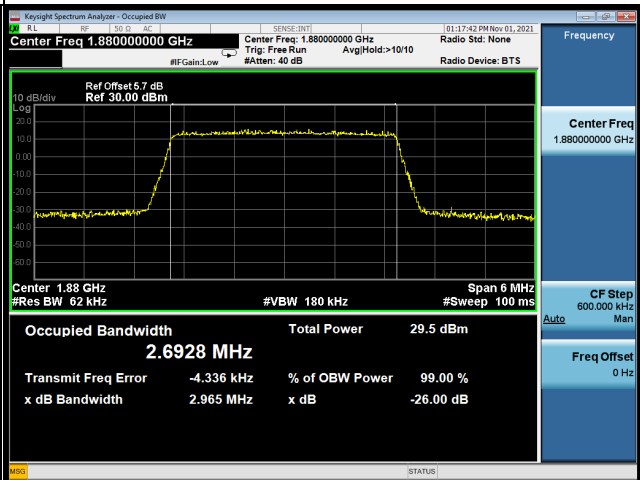
LTE Band 2_3M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
18615	1851.5	2.6834	18615	1851.5	3.028
18900	1880	2.6928	18900	1880	2.965
19185	1908.5	2.6930	19185	1908.5	2.968
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
18615	1851.5	2.6909	18615	1851.5	2.974
18900	1880	2.6873	18900	1880	2.988
19185	1908.5	2.6846	19185	1908.5	2.970
64QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
18615	1851.5	2.6914	18615	1851.5	2.977
18900	1880	2.6848	18900	1880	2.967
19185	1908.5	2.6849	19185	1908.5	2.945

Spectrum Plot

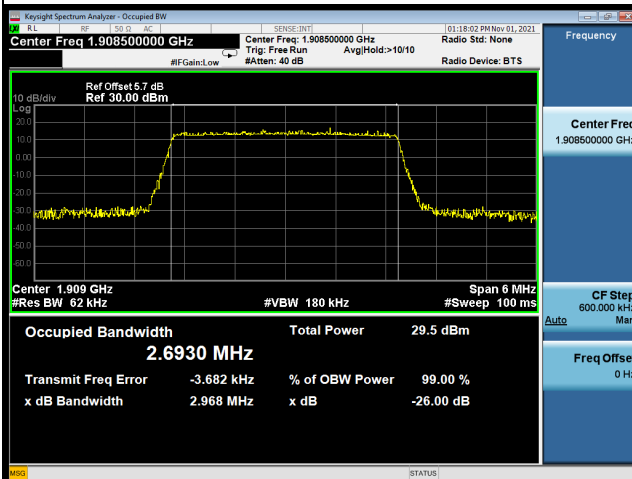
QPSK-18615



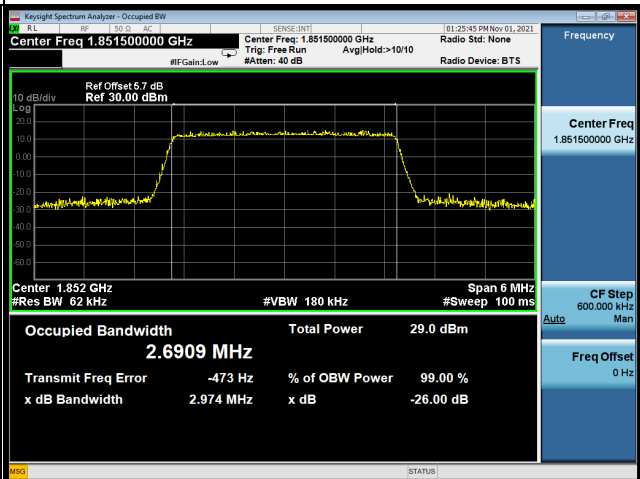
QPSK-18900



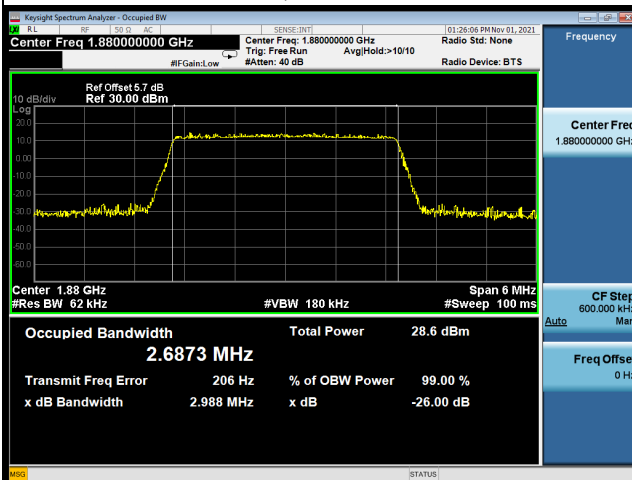
QPSK-19185



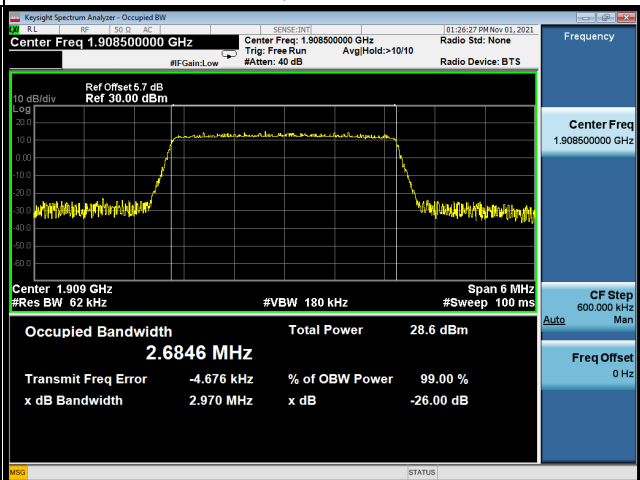
16QAM-18615



16QAM-18900

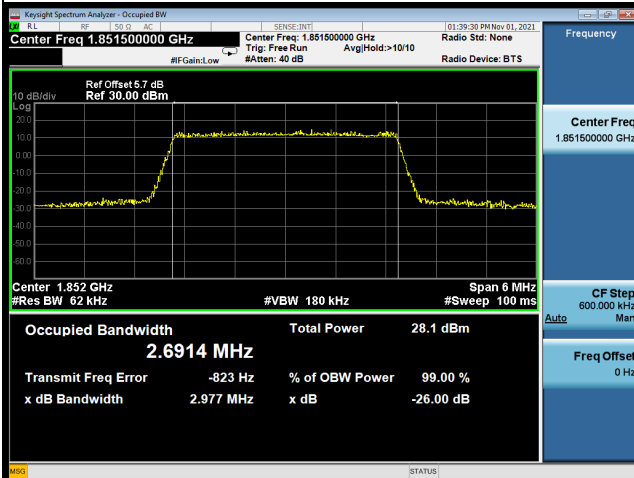


16QAM-19185



Spectrum Plot

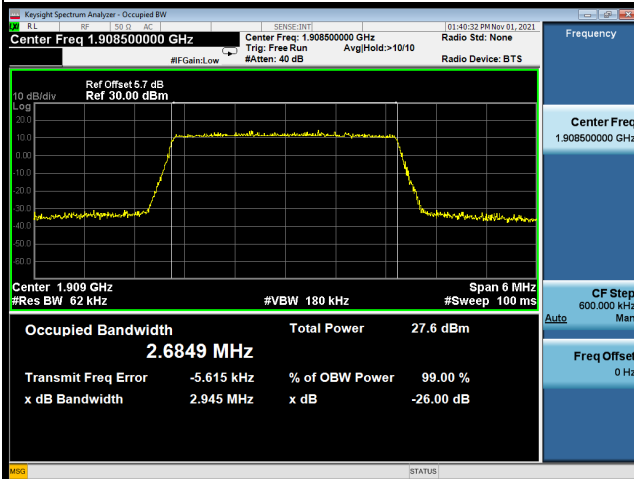
64QAM-18615



64QAM-18900



64QAM-19185



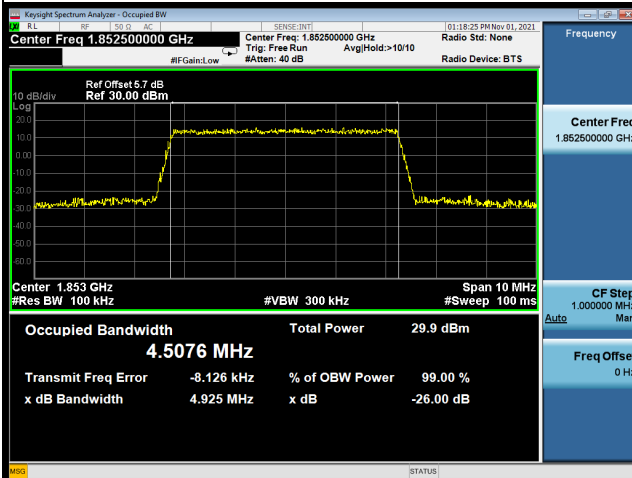
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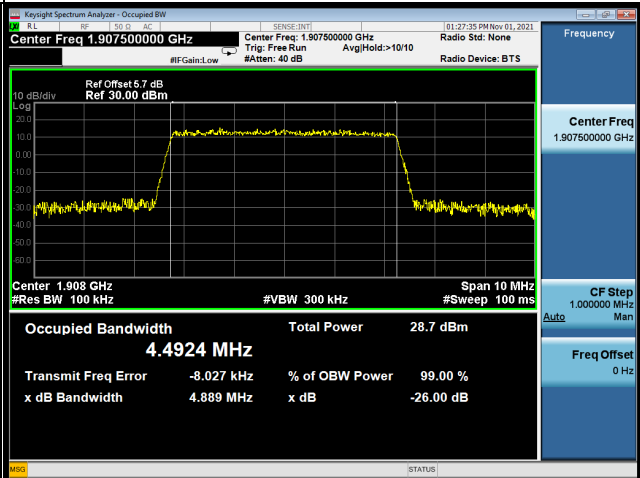
LTE Band 2_5M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
18625	1852.5	4.5076	18625	1852.5	4.925
18900	1880	4.4954	18900	1880	4.929
19175	1907.5	4.4983	19175	1907.5	4.885
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
18625	1852.5	4.4942	18625	1852.5	4.919
18900	1880	4.4912	18900	1880	4.894
19175	1907.5	4.4924	19175	1907.5	4.889
64QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
18625	1852.5	4.4956	18625	1852.5	4.886
18900	1880	4.5035	18900	1880	4.914
19175	1907.5	4.4928	19175	1907.5	4.904

Spectrum Plot

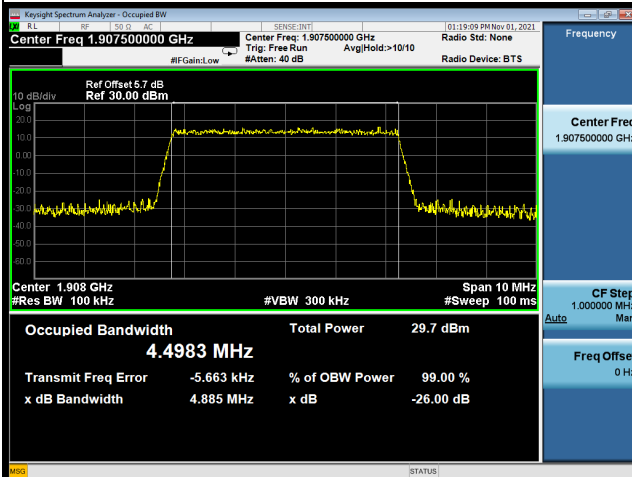
QPSK-18625



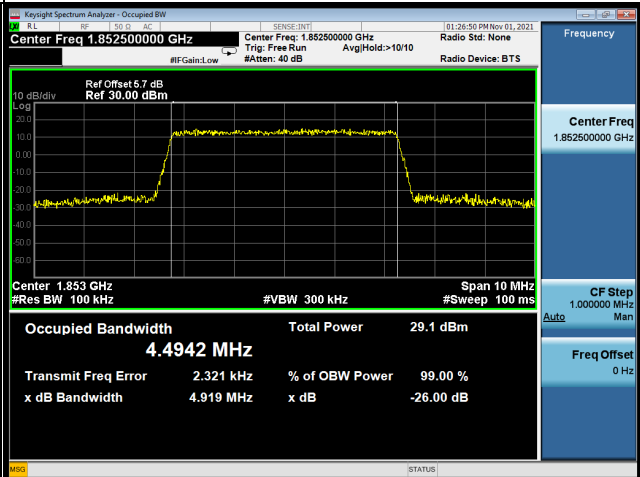
QPSK-18900



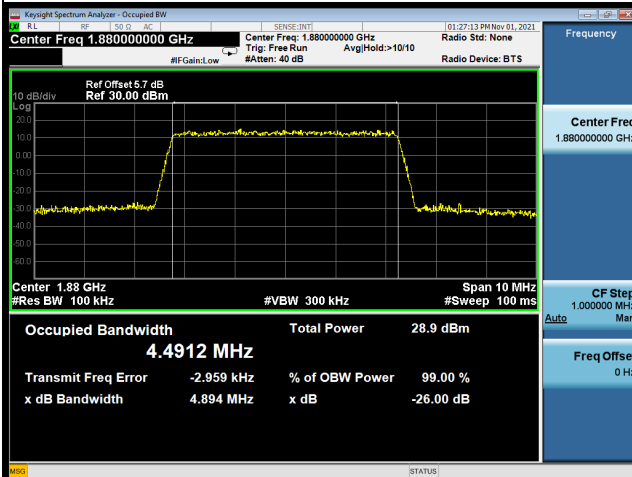
QPSK-19175



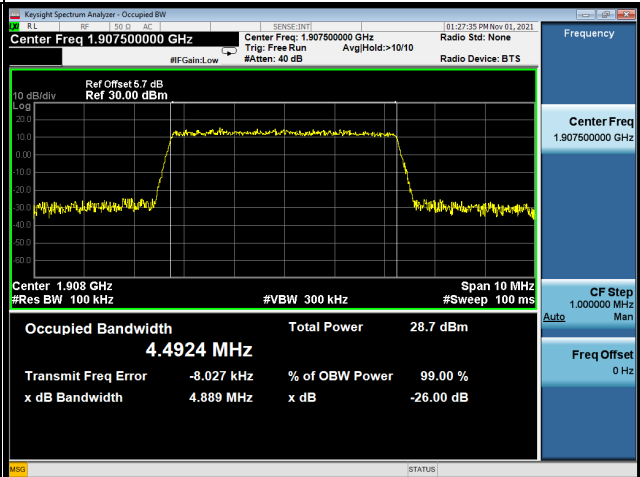
16QAM-18625



16QAM-18900

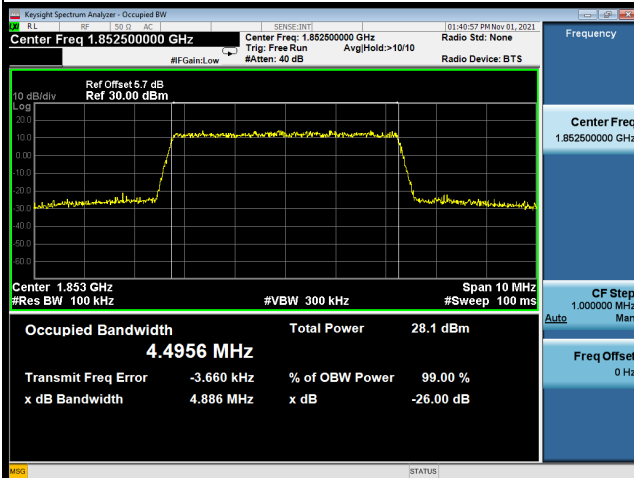


16QAM-19175

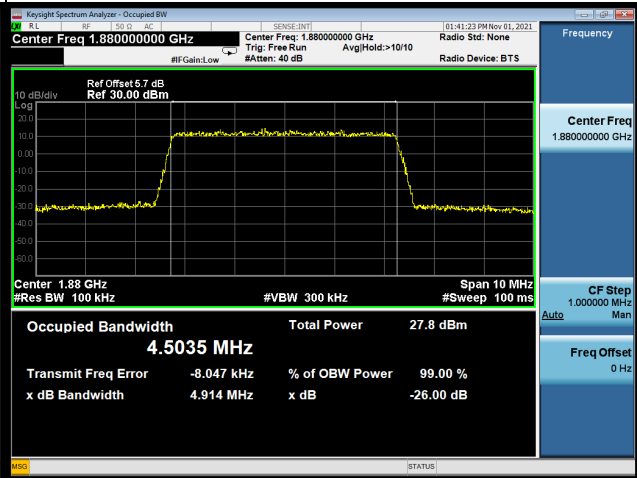


Spectrum Plot

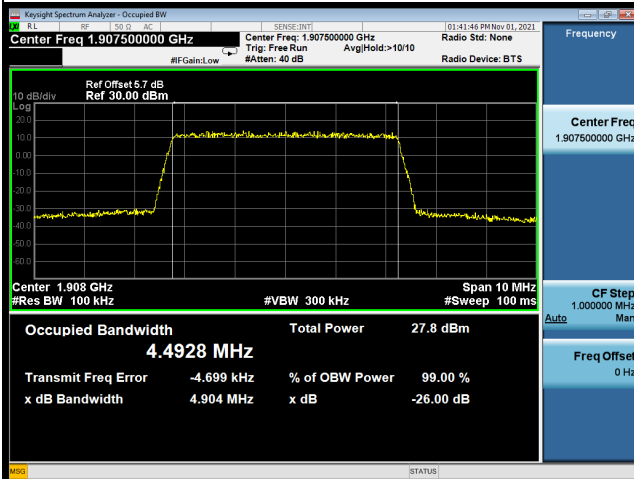
64QAM-18625



64QAM-18900



64QAM-19175



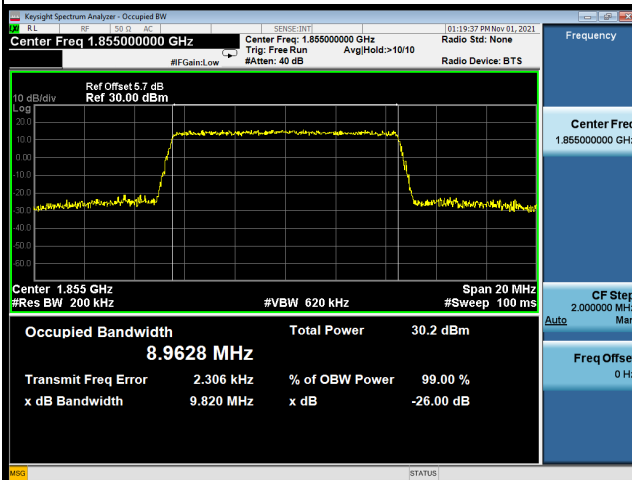
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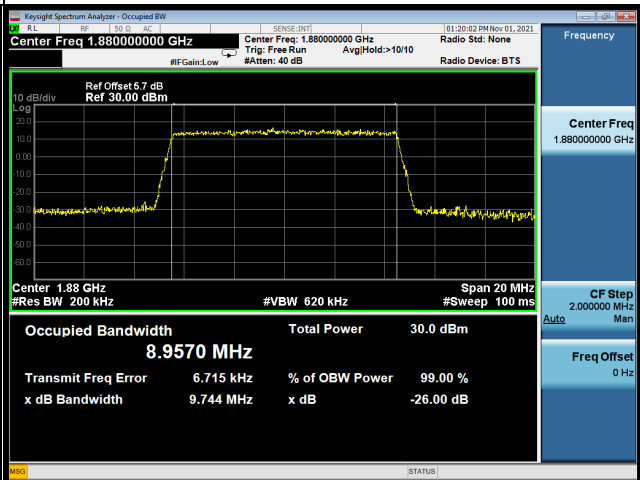
LTE Band 2_10M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
18650	1855	8.9628	18650	1855	9.820
18900	1880	8.9570	18900	1880	9.744
19150	1905	8.9860	19150	1905	9.789
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
18650	1855	8.9511	18650	1855	9.763
18900	1880	8.9509	18900	1880	9.772
19150	1905	8.9423	19150	1905	9.724
64QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
18650	1855	8.9553	18650	1855	9.706
18900	1880	8.9509	18900	1880	9.732
19150	1905	8.9654	19150	1905	9.710

Spectrum Plot

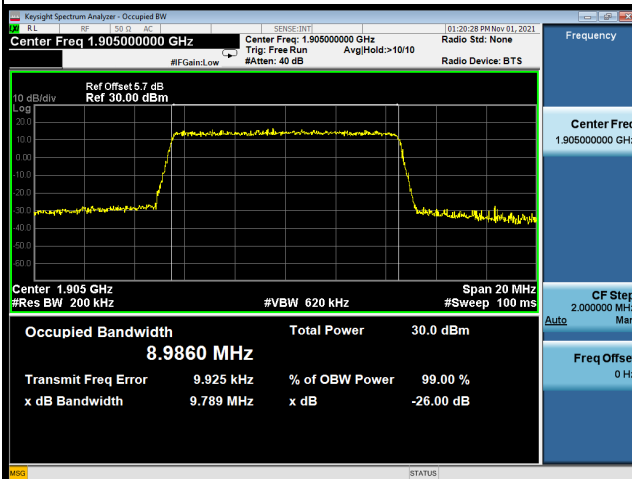
QPSK-18650



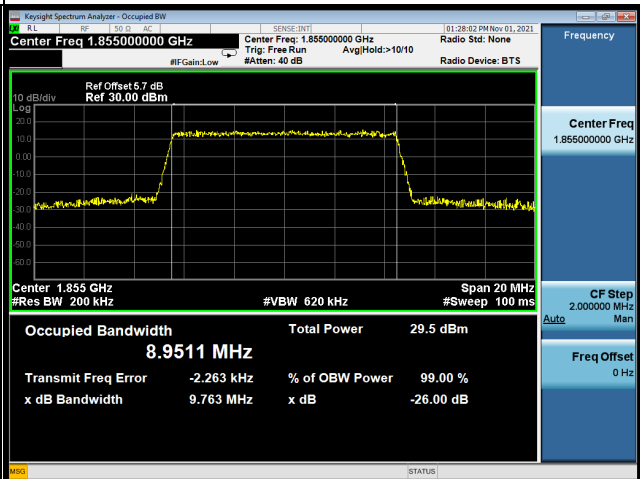
QPSK-18900



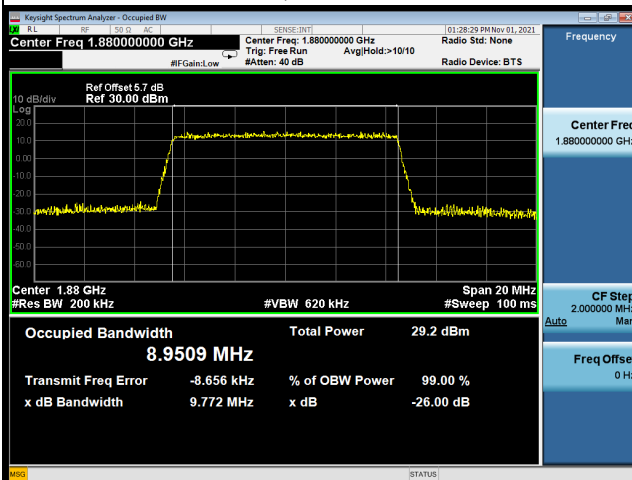
QPSK-19150



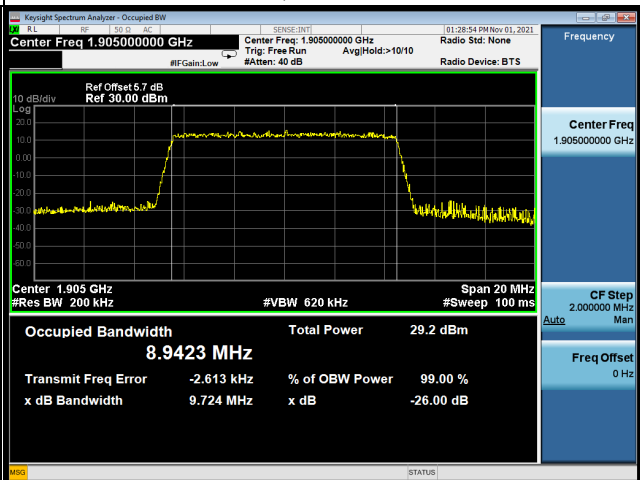
16QAM-18650



16QAM-18900

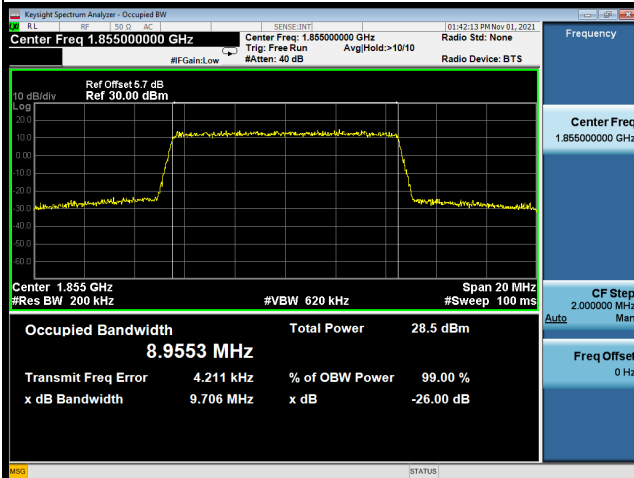


16QAM-19150



Spectrum Plot

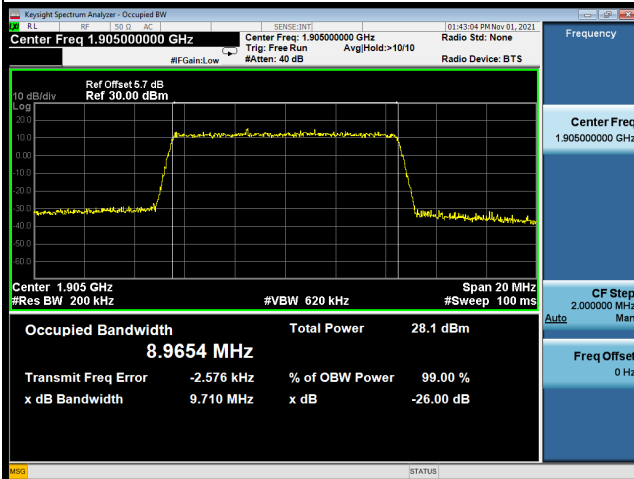
64QAM-18650



64QAM-18900



64QAM-19150



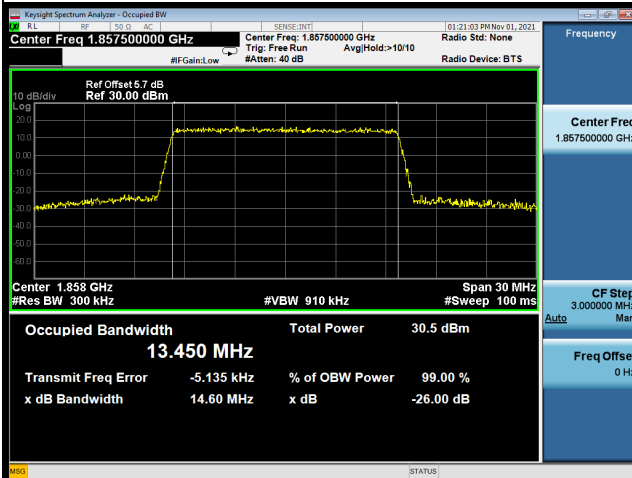
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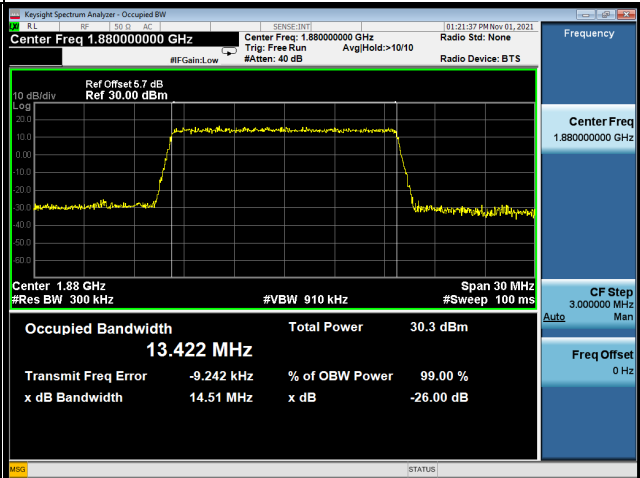
LTE Band 2_15M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
18675	1857.5	13.450	18675	1857.5	14.60
18900	1880	13.422	18900	1880	14.51
19125	1902.5	13.431	19125	1902.5	14.54
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
18675	1857.5	13.476	18675	1857.5	14.54
18900	1880	13.450	18900	1880	14.54
19125	1902.5	13.435	19125	1902.5	14.66
64QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
18675	1857.5	13.457	18675	1857.5	14.55
18900	1880	13.453	18900	1880	14.60
19125	1902.5	13.464	19125	1902.5	14.56

Spectrum Plot

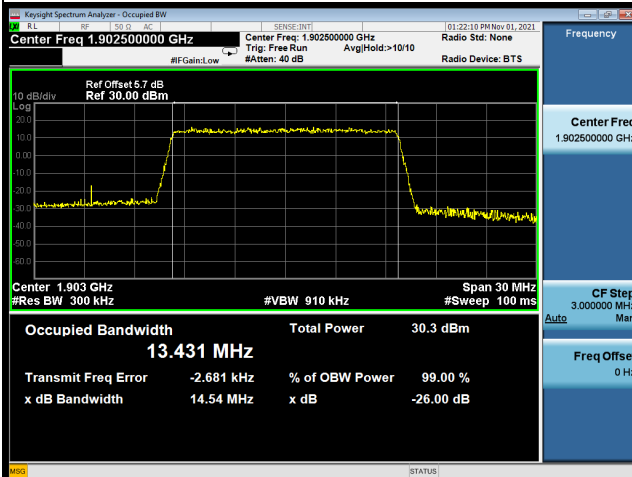
QPSK-18675



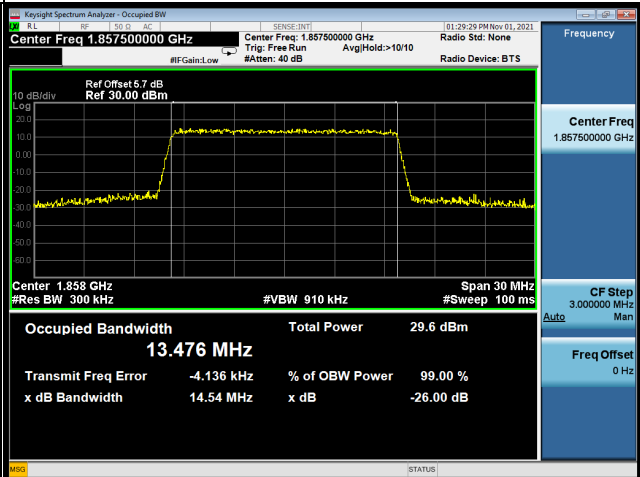
QPSK-18900



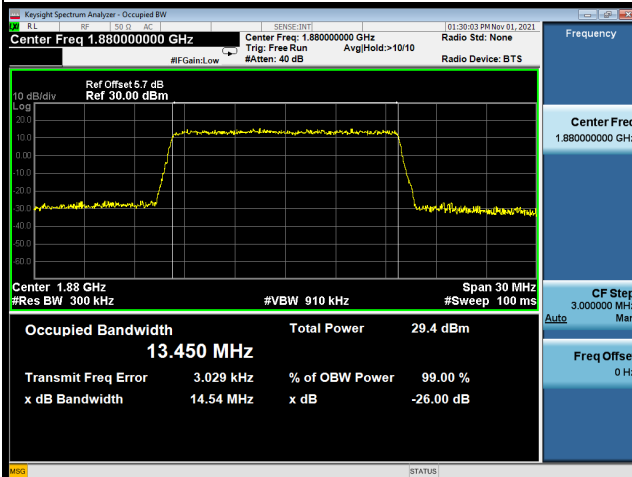
QPSK-19125



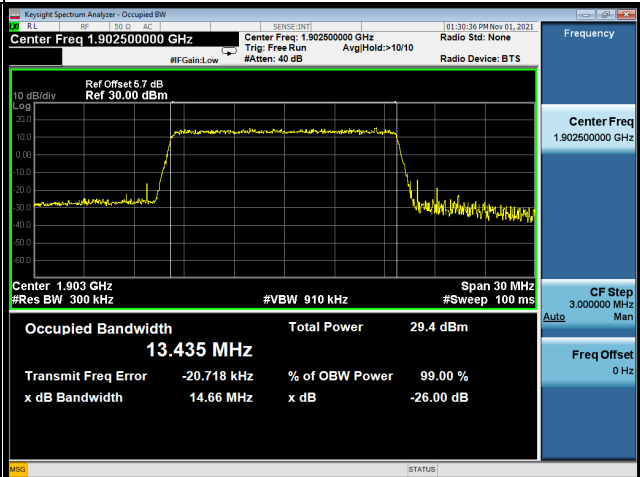
16QAM-18675



16QAM-18900

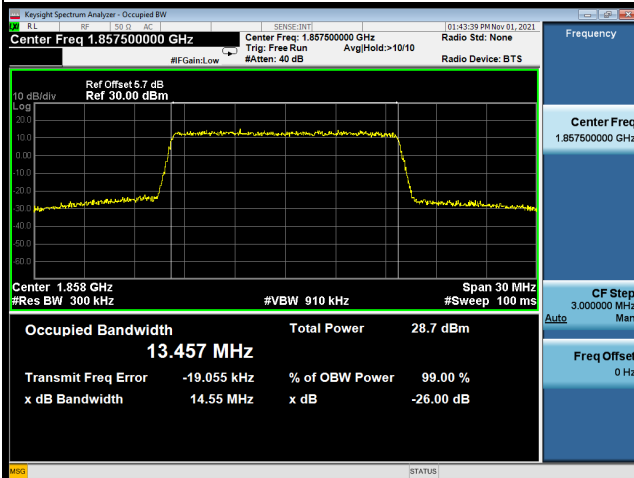


16QAM-19125



Spectrum Plot

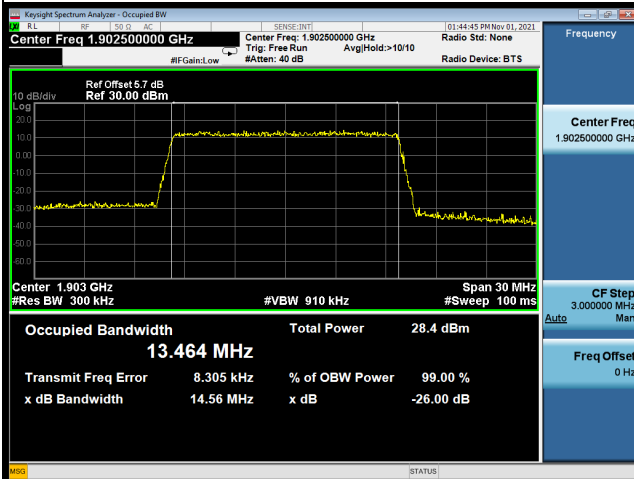
64QAM-18675



64QAM-18900



64QAM-19125



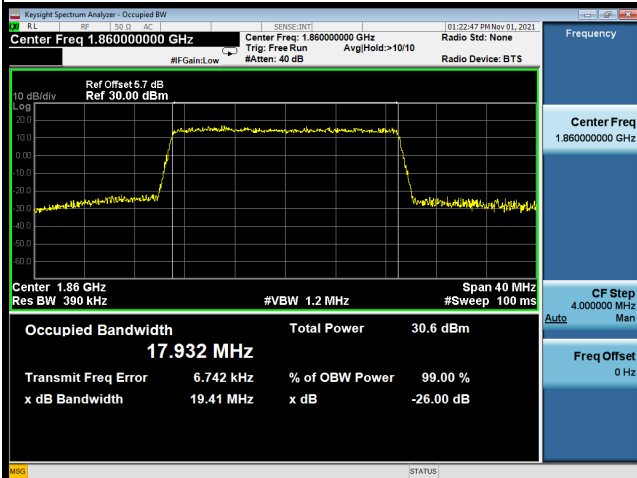
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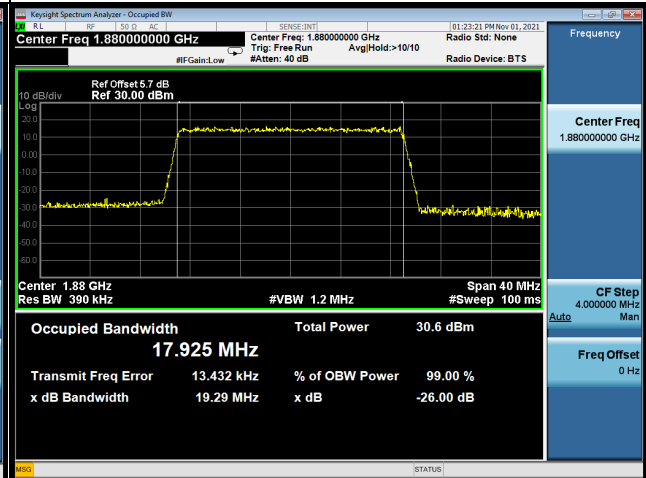
LTE Band 2_20M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
18700	1860	17.932	18700	1860	19.41
18900	1880	17.925	18900	1880	19.29
19100	1900	17.901	19100	1900	19.38
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
18700	1860	17.919	18700	1860	19.30
18900	1880	17.932	18900	1880	19.31
19100	1900	17.912	19100	1900	19.33
64QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
18700	1860	17.963	18700	1860	20.04
18900	1880	17.894	18900	1880	19.29
19100	1900	17.908	19100	1900	19.32

Spectrum Plot

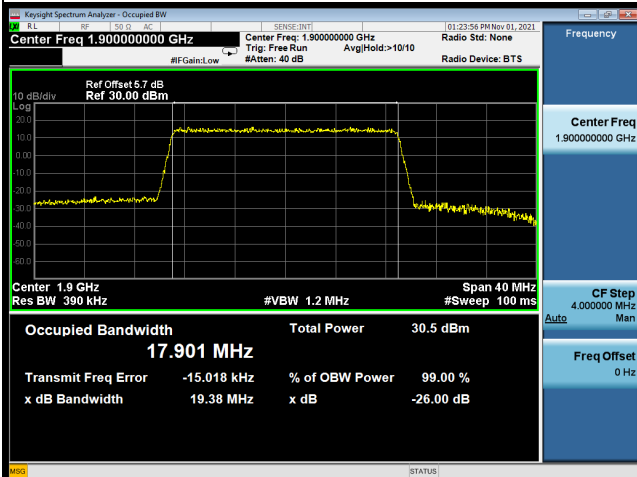
QPSK-18700



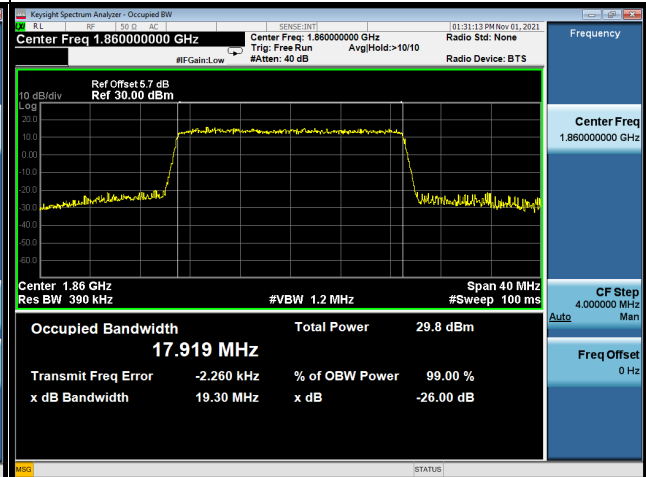
QPSK-18900



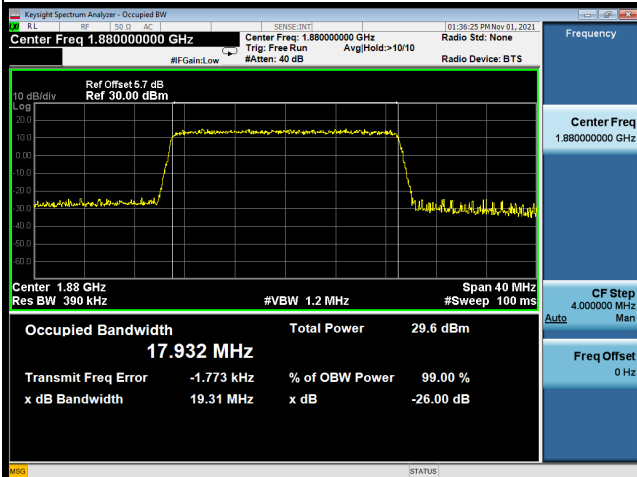
QPSK-19100



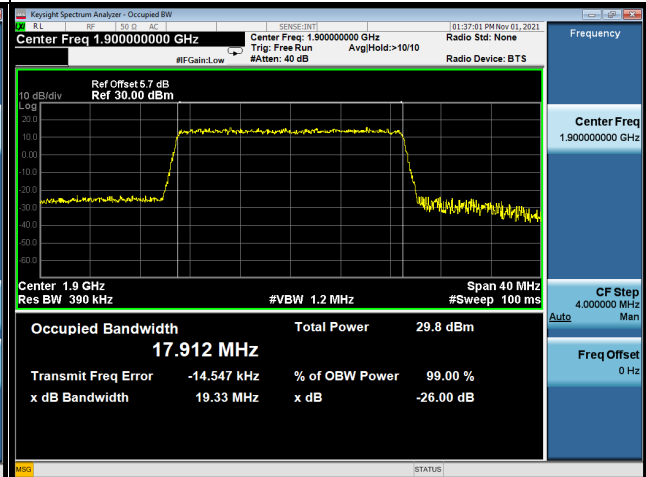
16QAM-18700



16QAM-18900



16QAM-19100

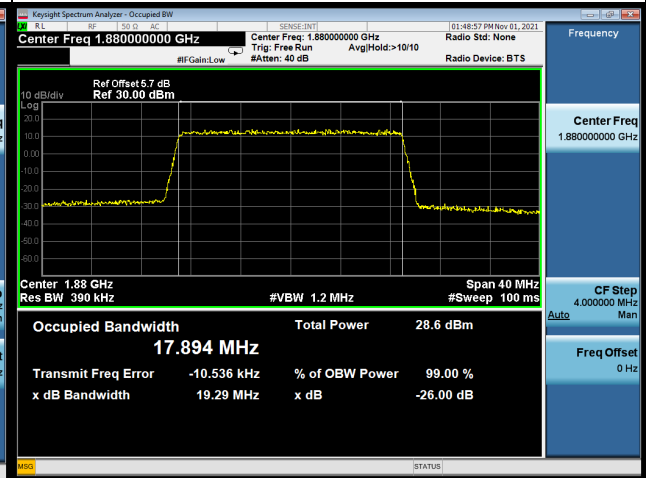


Spectrum Plot

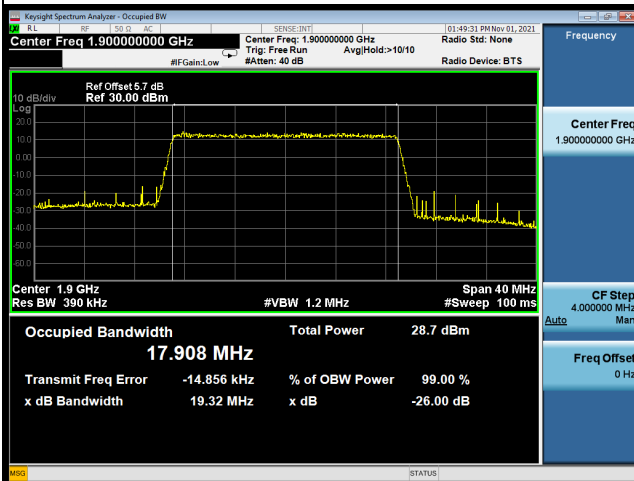
64QAM-18700



64QAM-18900



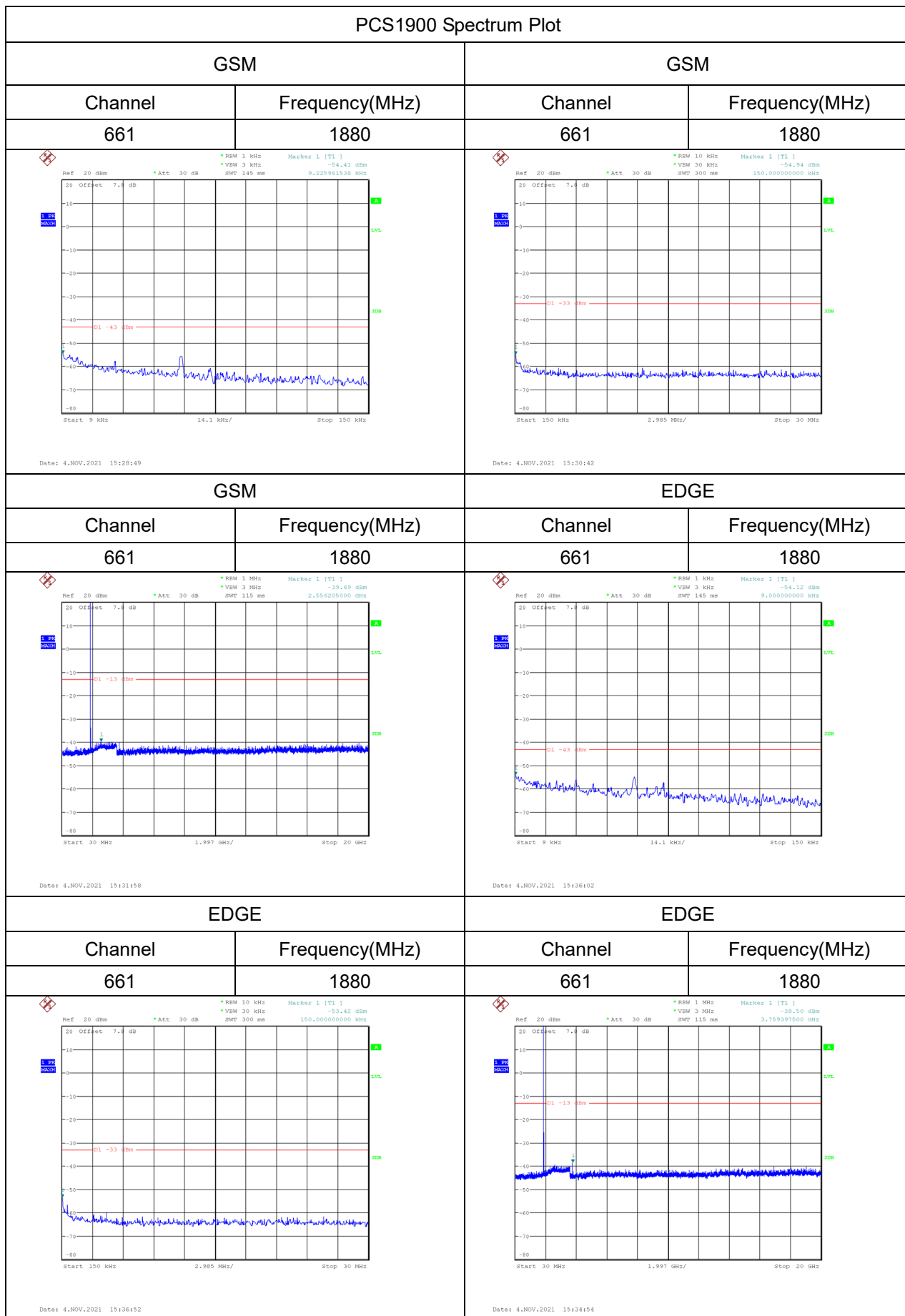
64QAM-19100

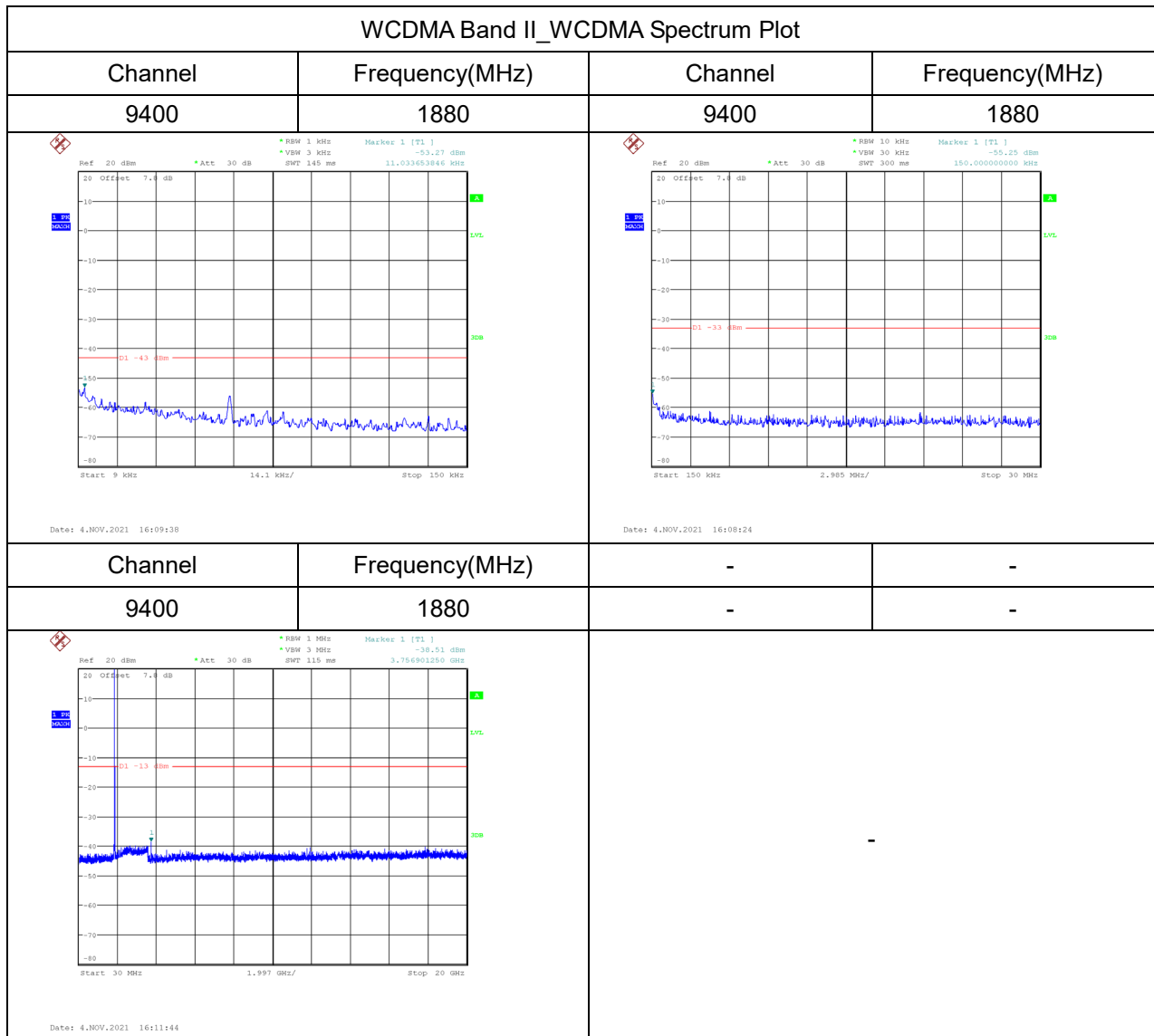


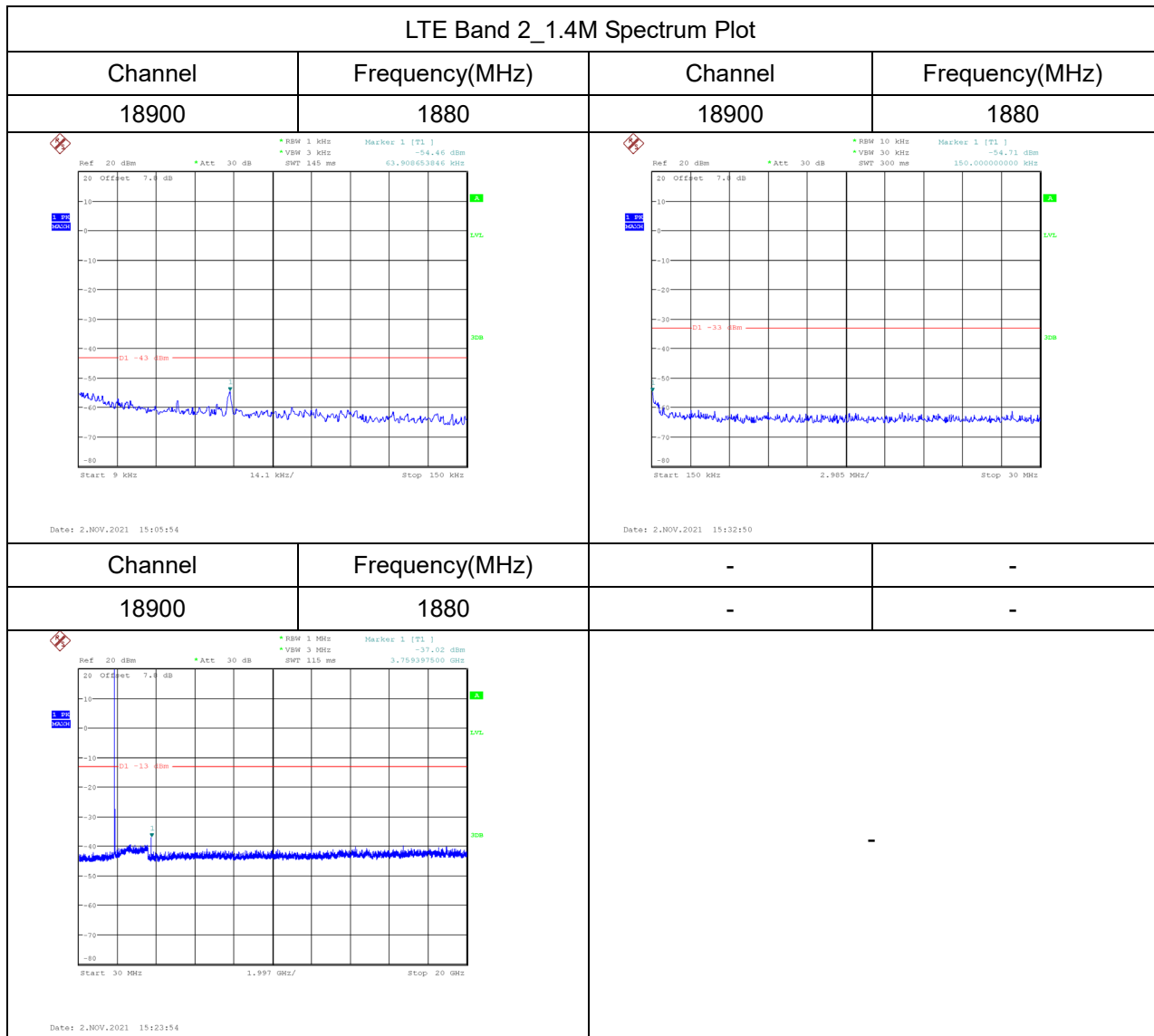
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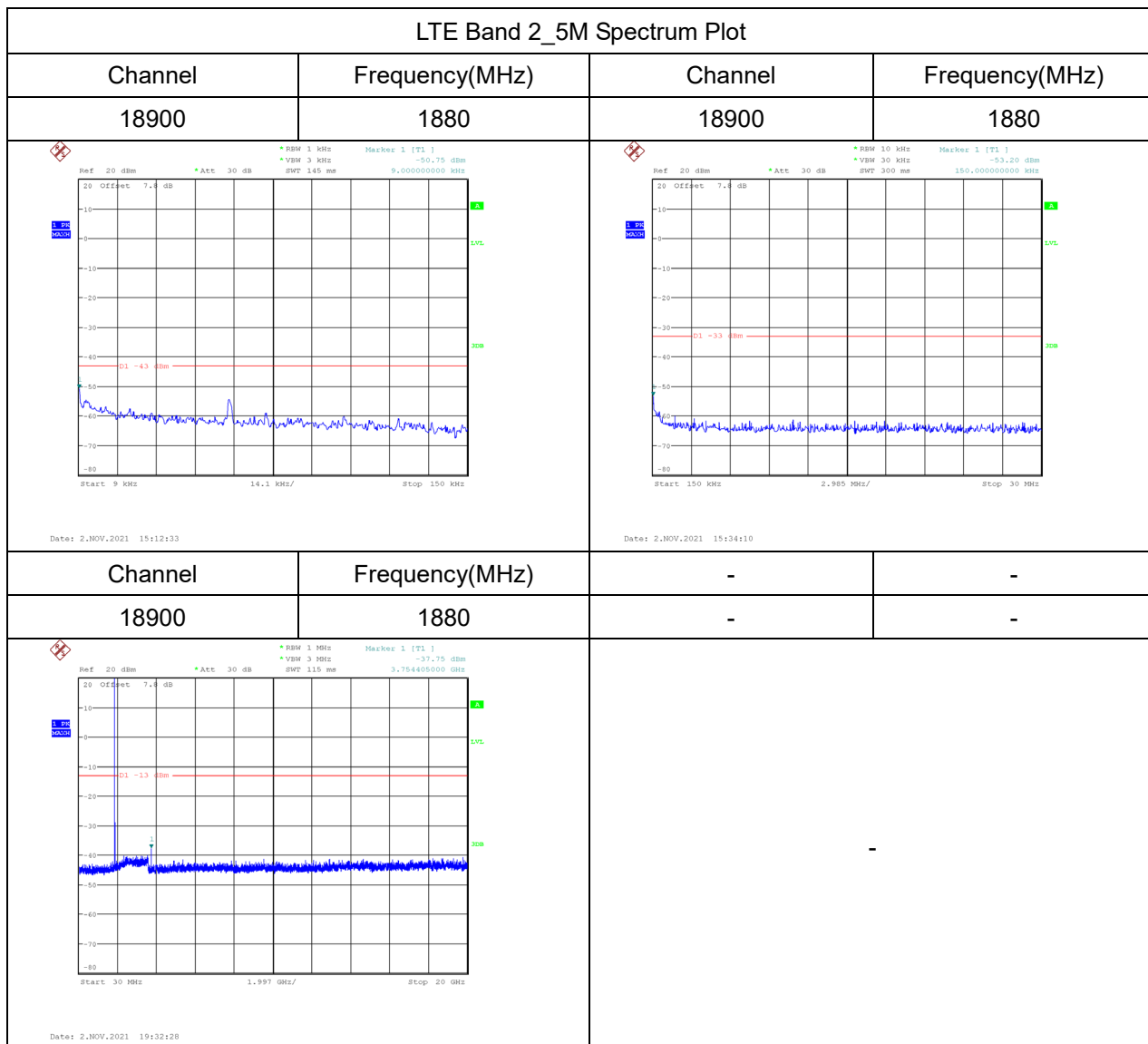
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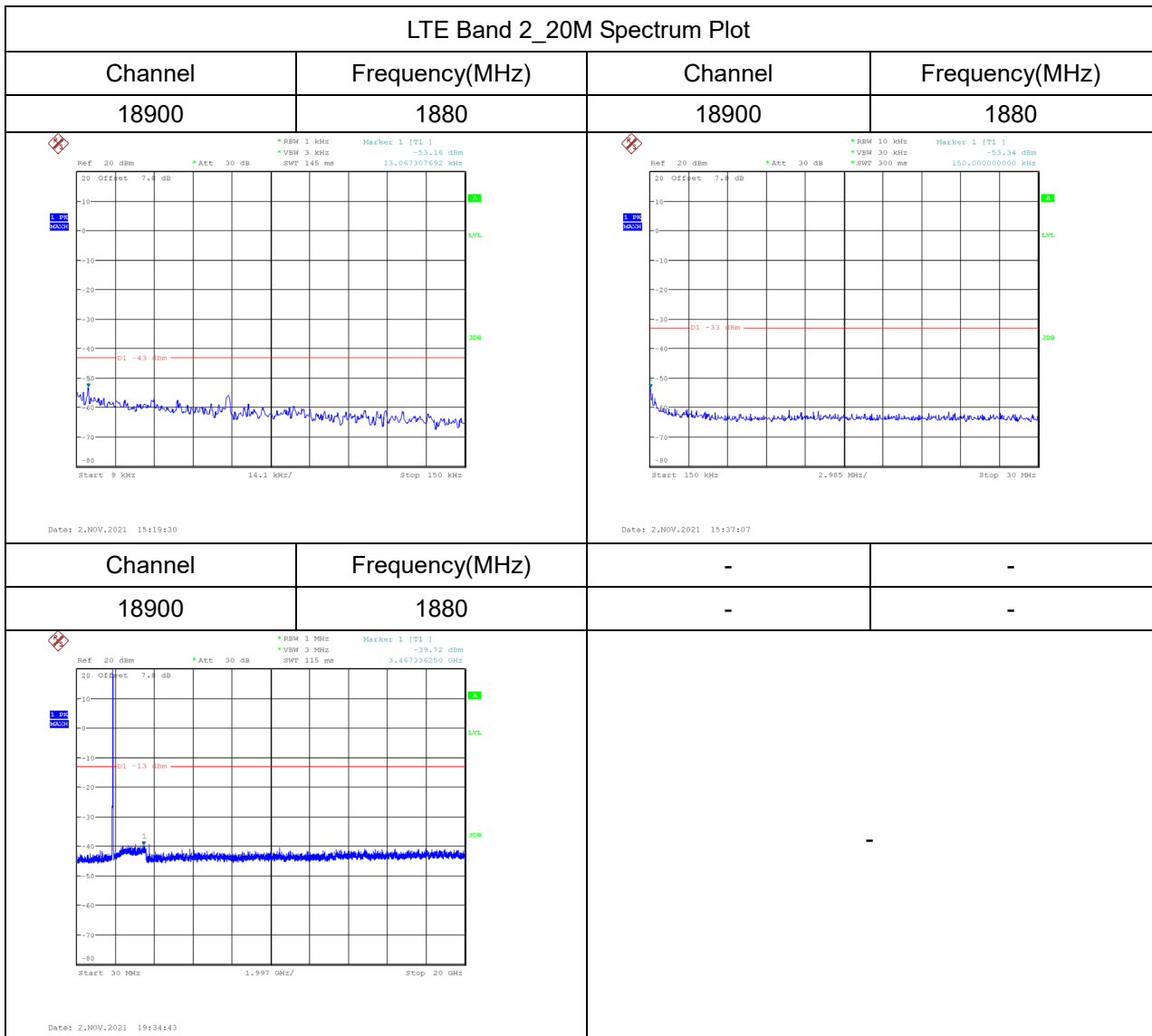
APPENDIX C - CONDUCTED SPURIOUS EMISSIONS







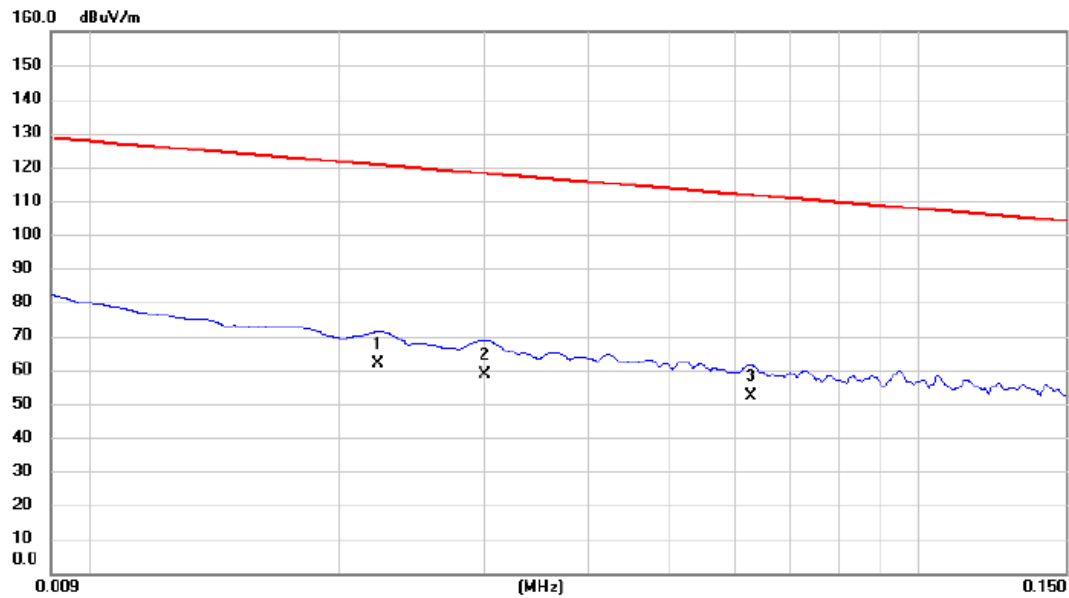




APPENDIX D - RADIATED SPURIOUS EMISSIONS (9KHZ TO 30MHZ)

Test Mode	TX Mode
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Ant 0°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0223	47.56	14.24	61.80	120.64	-58.84	AVG	
2		0.0300	44.69	14.06	58.75	118.06	-59.31	AVG	
3		0.0627	38.52	13.61	52.13	111.66	-59.53	AVG	

Test Mode	TX Mode
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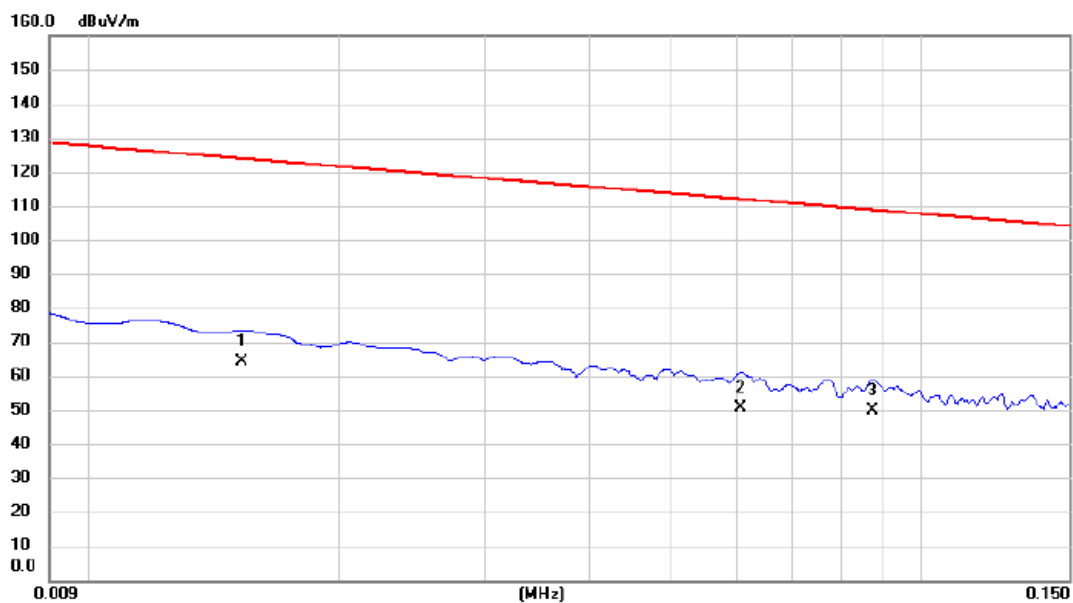
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.4485	34.58	13.40	47.98	94.57	-46.59	AVG	
2	*	2.1201	37.42	12.04	49.46	69.54	-20.08	QP	
3		2.9558	28.95	11.73	40.68	69.54	-28.86	QP	

Test Mode	TX Mode
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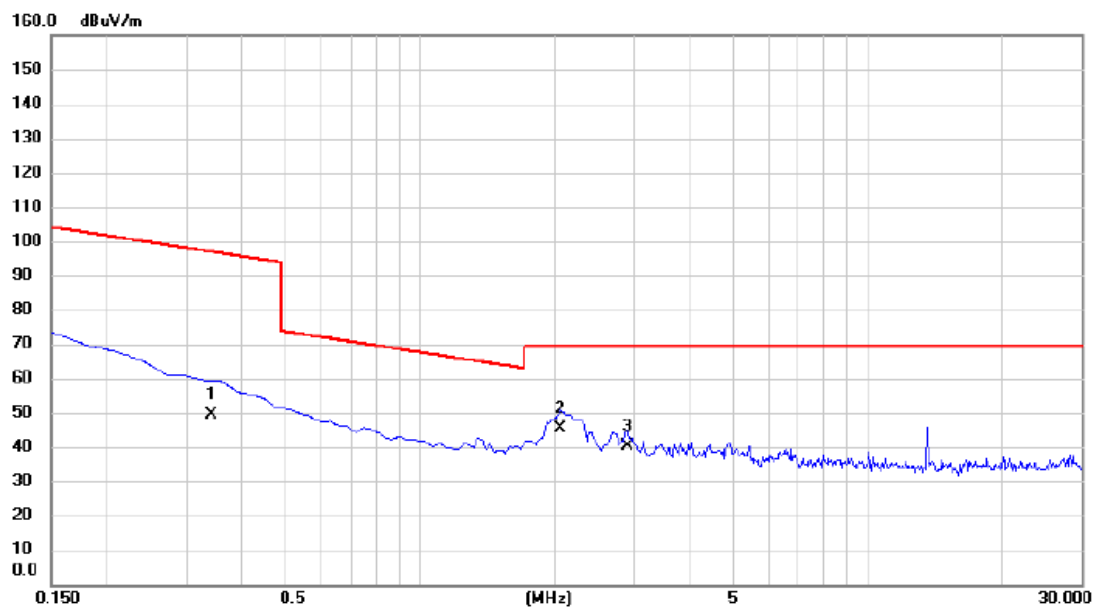
Ant 90°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.0153	48.32	15.77	64.09	123.91	-59.82	AVG	
2		0.0607	36.97	13.61	50.58	111.94	-61.36	AVG	
3	*	0.0871	36.25	13.64	49.89	108.80	-58.91	AVG	

Test Mode	TX Mode
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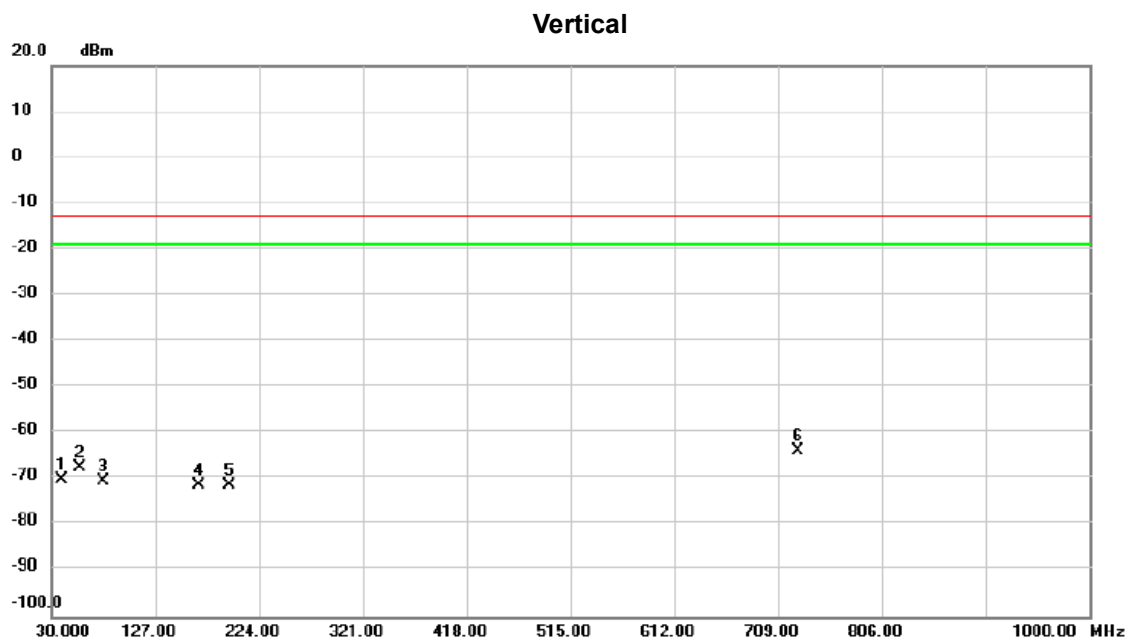
Ant 90°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.3428	35.96	13.51	49.47	96.90	-47.43	AVG	
2	*	2.0604	33.48	12.07	45.55	69.54	-23.99	QP	
3		2.8962	28.41	11.75	40.16	69.54	-29.38	QP	

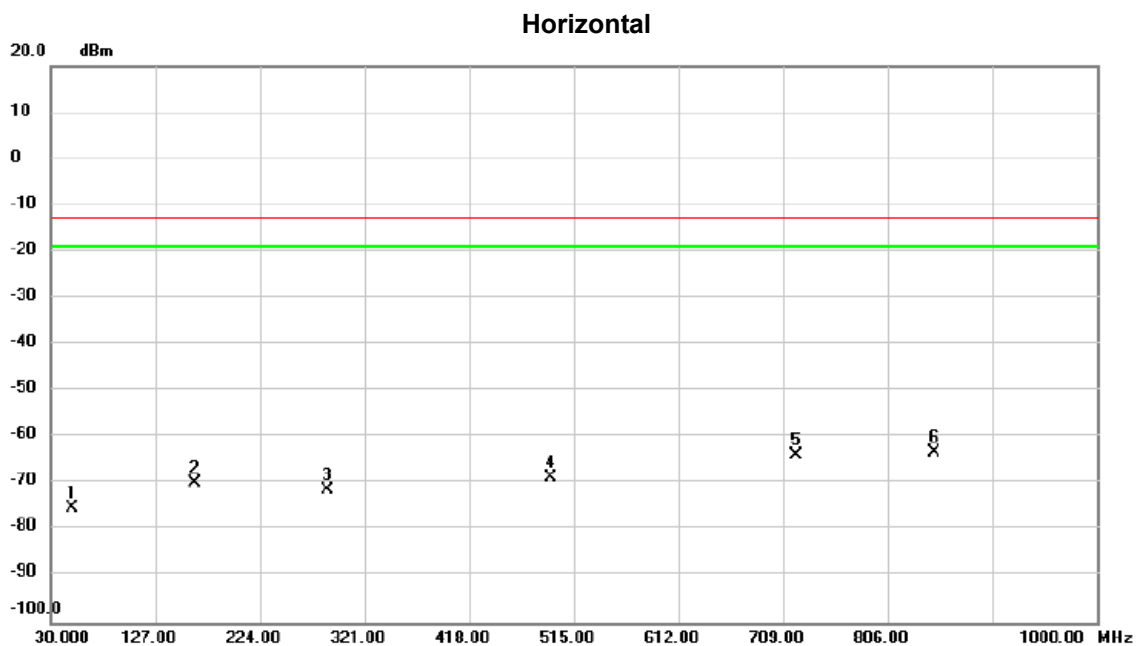
APPENDIX E - RADIATED SPURIOUS EMISSIONS (30MHZ TO 1000MHZ)

Test Mode	PCS1900_TX CH661_GSM
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No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		39.215	-52.80	-17.27	-70.07	-13.00	-57.07	peak	
2		56.190	-50.31	-17.06	-67.37	-13.00	-54.37	peak	
3		78.015	-53.63	-16.84	-70.47	-13.00	-57.47	peak	
4		167.255	-55.46	-16.01	-71.47	-13.00	-58.47	peak	
5		195.870	-55.46	-15.76	-71.22	-13.00	-58.22	peak	
6	*	727.430	-49.29	-14.60	-63.89	-13.00	-50.89	peak	

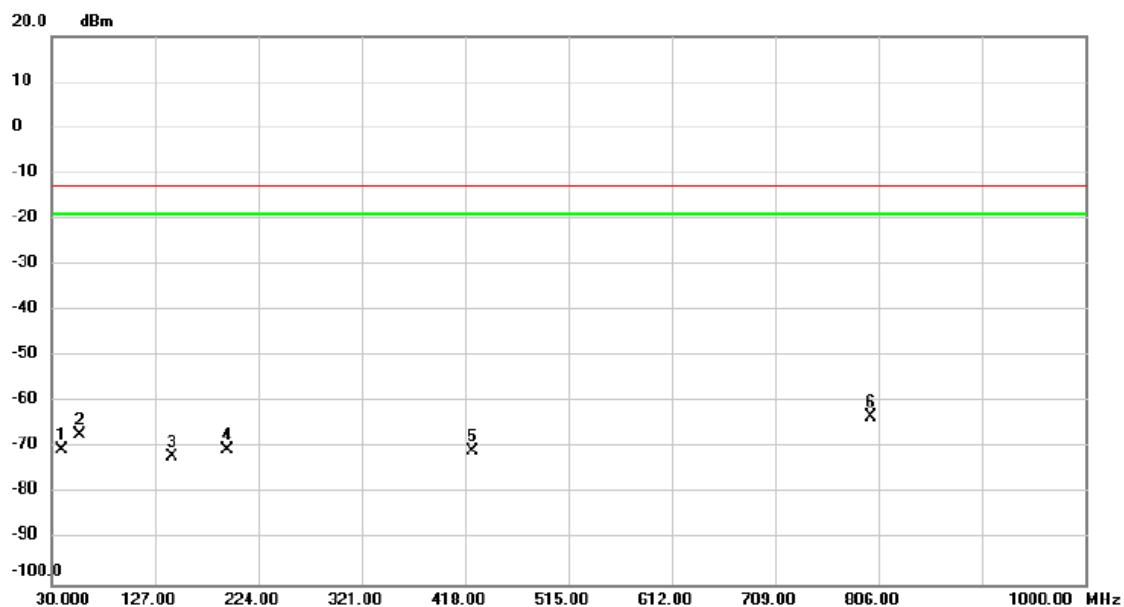
Test Mode	PCS1900_TX CH661_GSM
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No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		49.885	-58.26	-17.13	-75.39	-13.00	-62.39	peak	
2		163.860	-53.66	-16.05	-69.71	-13.00	-56.71	peak	
3		287.050	-56.26	-15.01	-71.27	-13.00	-58.27	peak	
4		493.660	-53.58	-14.97	-68.55	-13.00	-55.55	peak	
5		721.610	-49.21	-14.62	-63.83	-13.00	-50.83	peak	
6	*	848.680	-49.16	-14.06	-63.22	-13.00	-50.22	peak	

Test Mode	WCDMA Band II_TX CH9400
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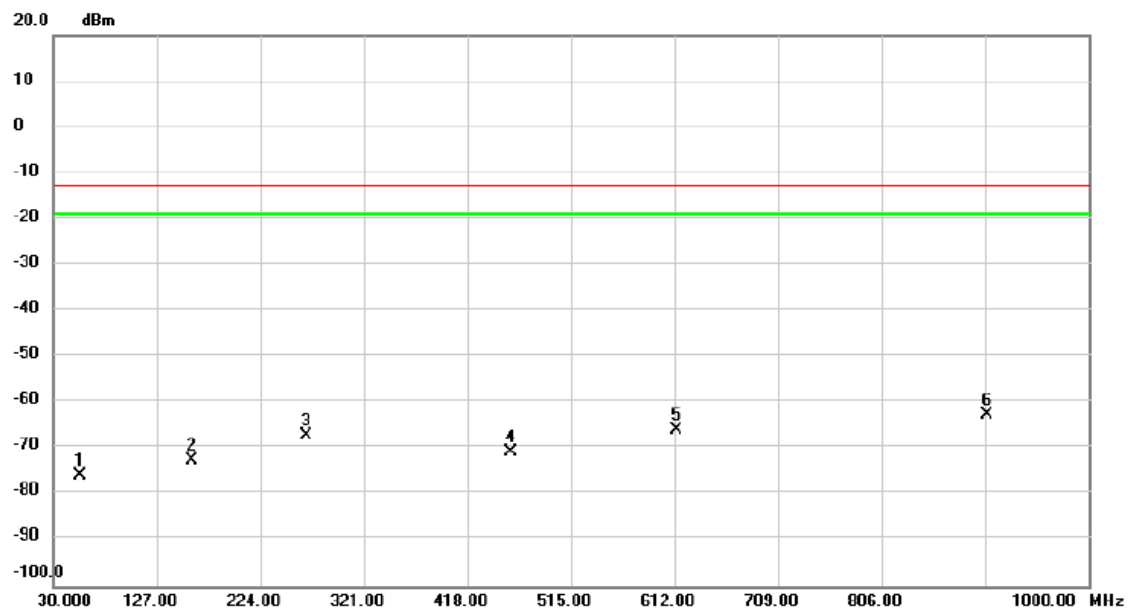
Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		39.215	-53.30	-17.27	-70.57	-13.00	-57.57	peak	
2		56.190	-50.22	-17.06	-67.28	-13.00	-54.28	peak	
3		142.520	-55.75	-16.24	-71.99	-13.00	-58.99	peak	
4		194.415	-54.83	-15.76	-70.59	-13.00	-57.59	peak	
5		424.790	-55.88	-14.93	-70.81	-13.00	-57.81	peak	
6	*	799.210	-48.81	-14.34	-63.15	-13.00	-50.15	peak	

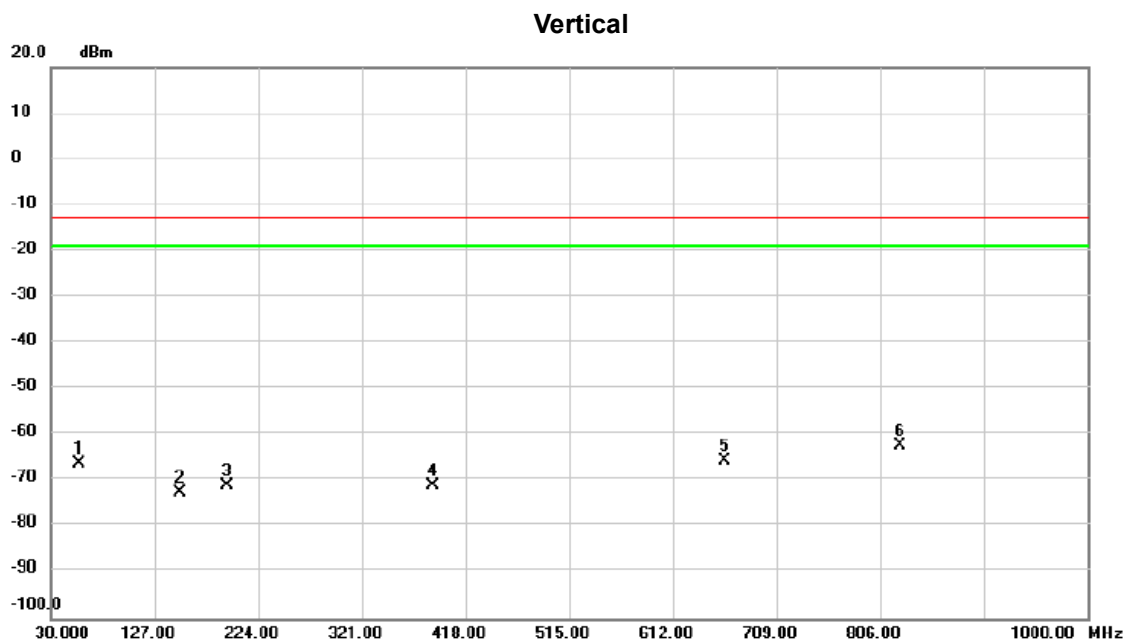
Test Mode	WCDMA Band II_TX CH9400
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Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1		55.220	-58.71	-17.07	-75.78	-13.00	-62.78	peak	
2		159.495	-56.57	-16.09	-72.66	-13.00	-59.66	peak	
3		267.165	-51.99	-15.17	-67.16	-13.00	-54.16	peak	
4		458.255	-55.83	-14.95	-70.78	-13.00	-57.78	peak	
5		614.425	-51.01	-15.01	-66.02	-13.00	-53.02	peak	
6	*	904.940	-48.78	-13.73	-62.51	-13.00	-49.51	peak	

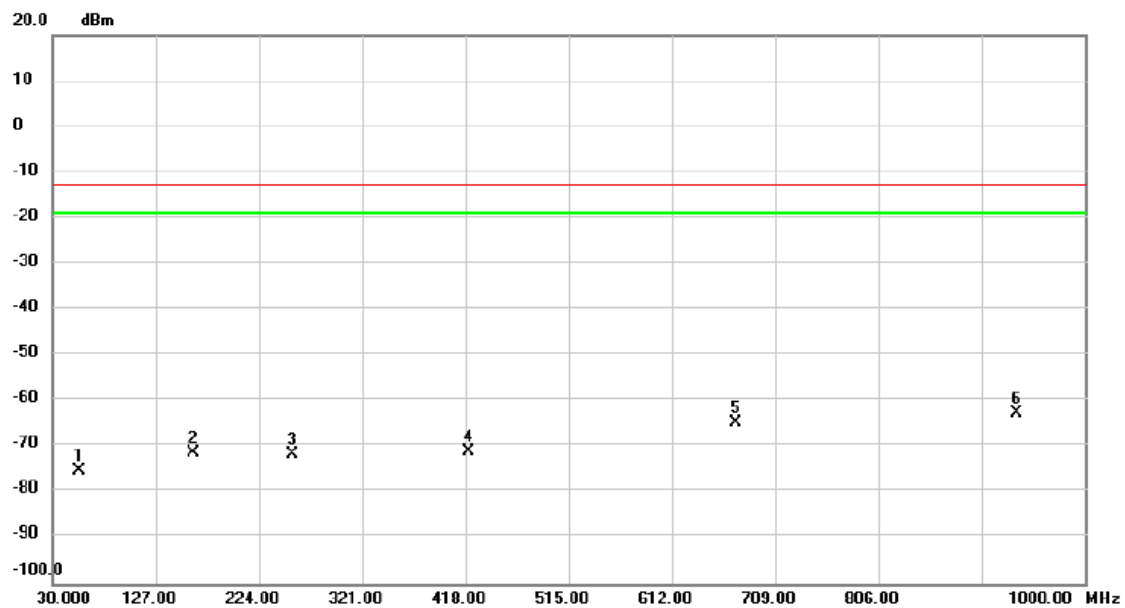
Test Mode	LTE Band 2_TX CH18900_1.4M
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No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		56.190	-49.30	-17.06	-66.36	-13.00	-53.36	peak	
2		150.280	-56.38	-16.17	-72.55	-13.00	-59.55	peak	
3		194.415	-55.16	-15.76	-70.92	-13.00	-57.92	peak	
4		386.960	-56.20	-14.92	-71.12	-13.00	-58.12	peak	
5		660.015	-50.71	-14.83	-65.54	-13.00	-52.54	peak	
6	*	824.430	-48.09	-14.20	-62.29	-13.00	-49.29	peak	

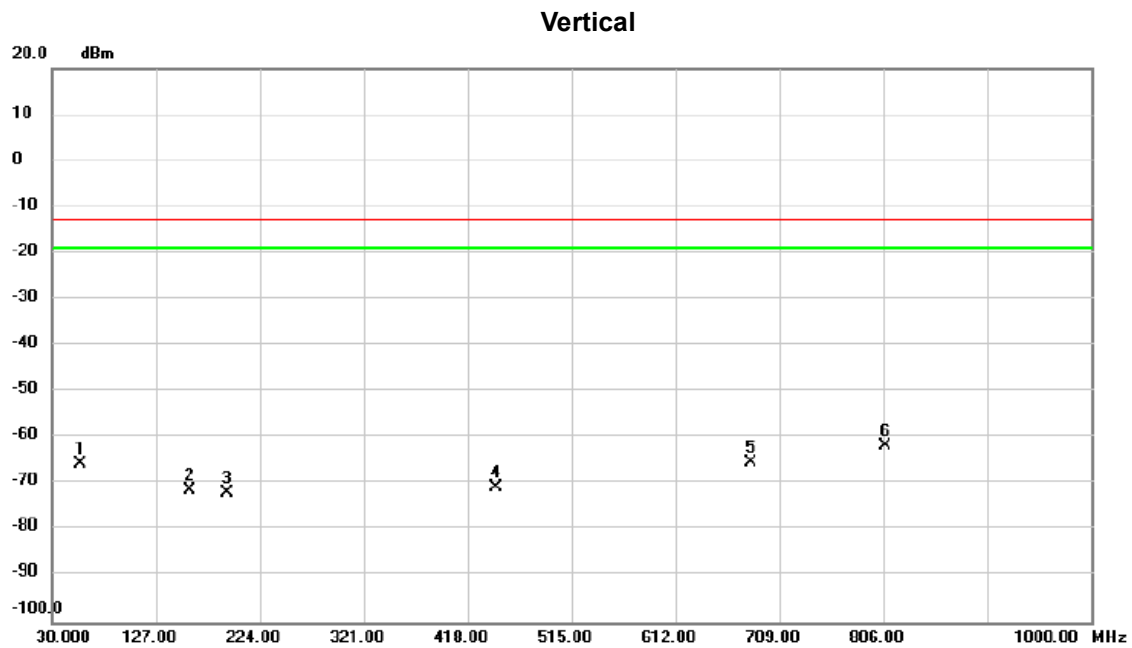
Test Mode	LTE Band 2_TX CH18900_1.4M
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Horizontal



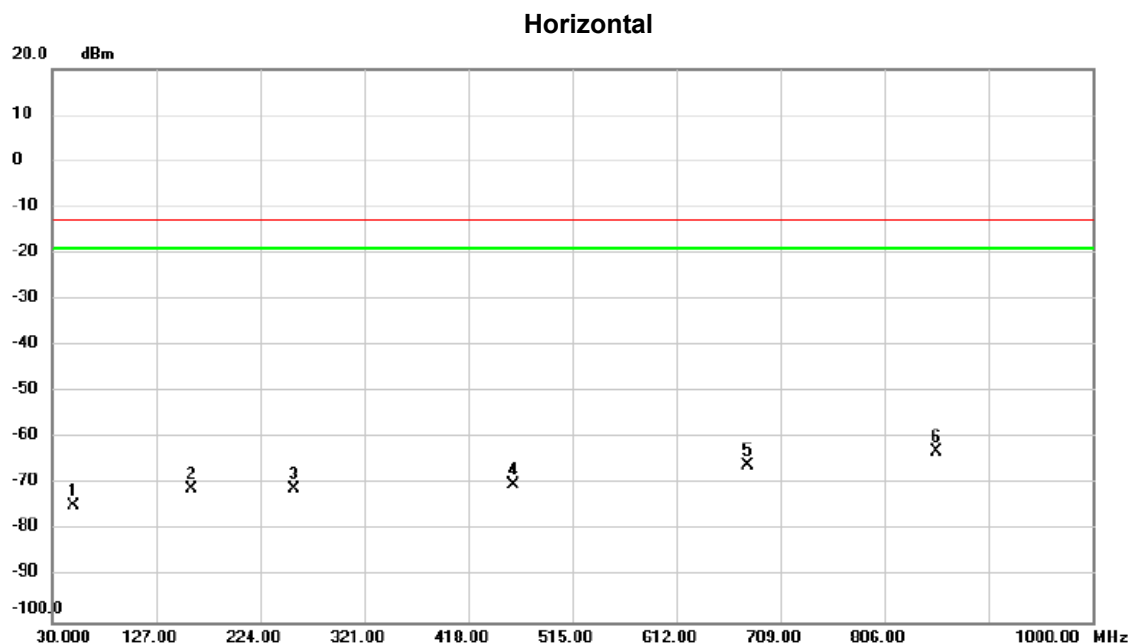
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1		55.705	-58.13	-17.07	-75.20	-13.00	-62.20	peak	
2		162.890	-55.43	-16.06	-71.49	-13.00	-58.49	peak	
3		255.525	-56.29	-15.27	-71.56	-13.00	-58.56	peak	
4		421.395	-56.11	-14.92	-71.03	-13.00	-58.03	peak	
5		672.140	-50.07	-14.79	-64.86	-13.00	-51.86	peak	
6	*	935.495	-49.14	-13.56	-62.70	-13.00	-49.70	peak	

Test Mode	LTE Band 2_TX CH18900_5M
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No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		56.190	-48.66	-17.06	-65.72	-13.00	-52.72	peak	
2		159.010	-55.13	-16.09	-71.22	-13.00	-58.22	peak	
3		192.960	-56.06	-15.78	-71.84	-13.00	-58.84	peak	
4		444.190	-55.94	-14.94	-70.88	-13.00	-57.88	peak	
5		681.840	-50.47	-14.76	-65.23	-13.00	-52.23	peak	
6	*	808.425	-47.56	-14.29	-61.85	-13.00	-48.85	peak	

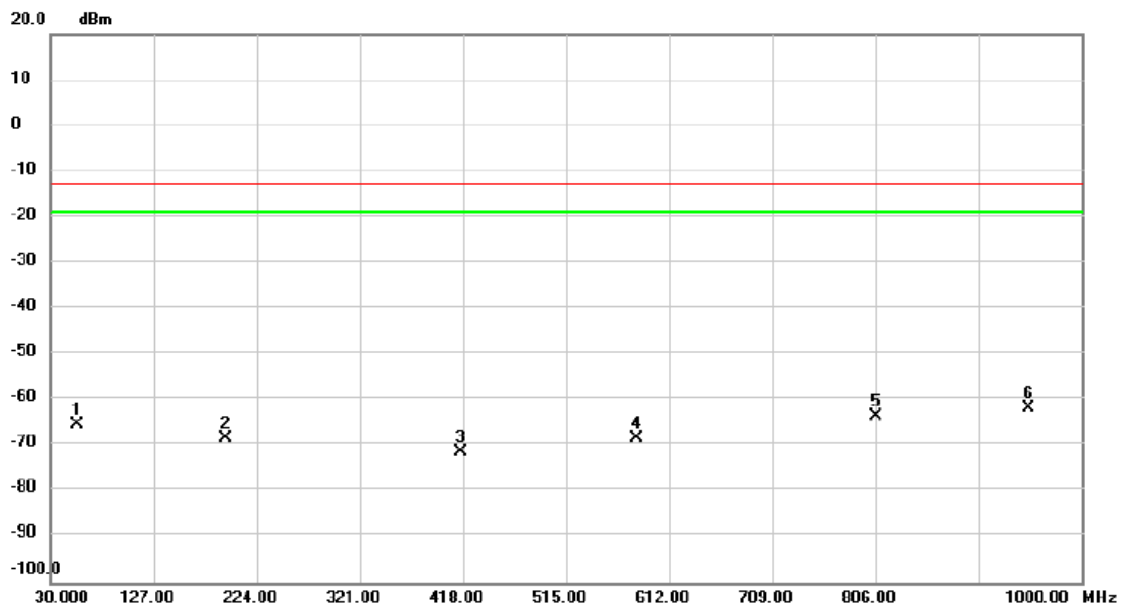
Test Mode	LTE Band 2_TX CH18900_5M
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No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		49.400	-57.61	-17.14	-74.75	-13.00	-61.75	peak	
2		159.980	-54.97	-16.08	-71.05	-13.00	-58.05	peak	
3		255.525	-55.70	-15.27	-70.97	-13.00	-57.97	peak	
4		460.195	-55.30	-14.95	-70.25	-13.00	-57.25	peak	
5		677.960	-51.32	-14.77	-66.09	-13.00	-53.09	peak	
6 *		854.985	-48.86	-14.02	-62.88	-13.00	-49.88	peak	

Test Mode LTE Band 2_TX CH18900_20M

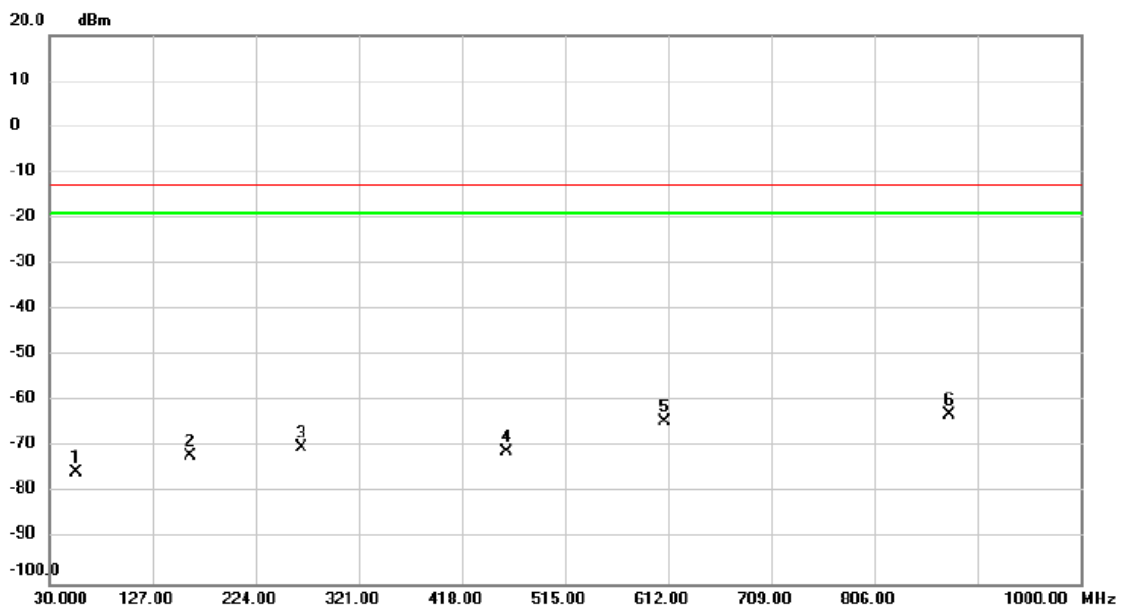
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1		55.705	-48.42	-17.07	-65.49	-13.00	-52.49	peak	
2		194.415	-52.62	-15.76	-68.38	-13.00	-55.38	peak	
3		416.060	-56.36	-14.93	-71.29	-13.00	-58.29	peak	
4		581.445	-53.26	-15.05	-68.31	-13.00	-55.31	peak	
5		806.000	-49.30	-14.30	-63.60	-13.00	-50.60	peak	
6	*	950.045	-48.42	-13.47	-61.89	-13.00	-48.89	peak	

Test Mode	LTE Band 2_TX CH18900_20M
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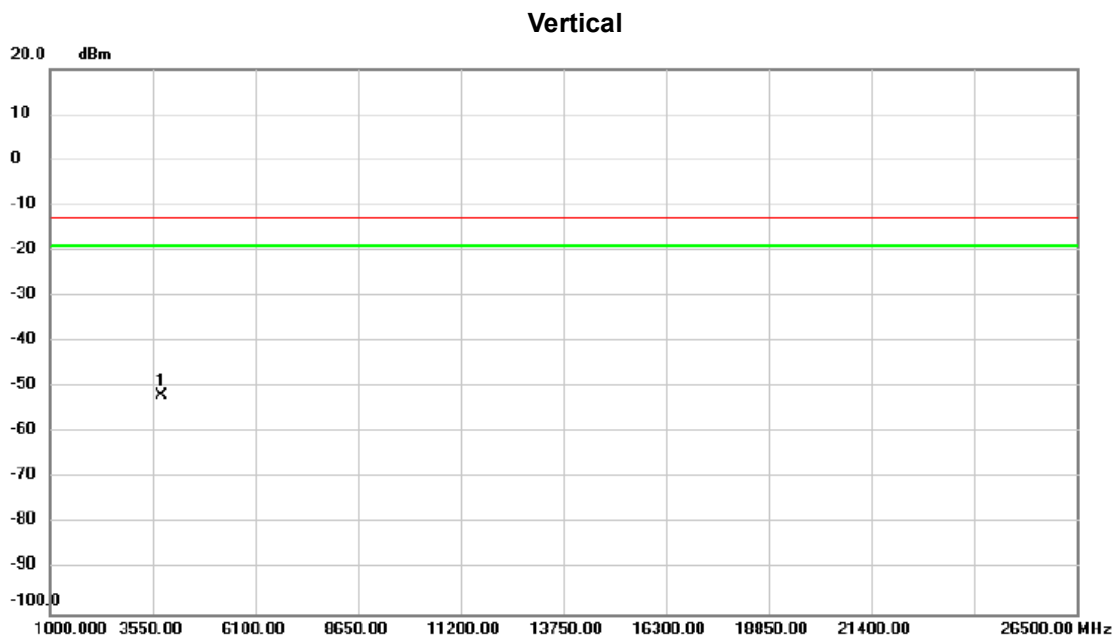
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		54.735	-58.33	-17.09	-75.42	-13.00	-62.42	peak	
2		162.890	-55.80	-16.06	-71.86	-13.00	-58.86	peak	
3		267.650	-54.95	-15.17	-70.12	-13.00	-57.12	peak	
4		459.710	-55.95	-14.95	-70.90	-13.00	-57.90	peak	
5		609.090	-49.53	-15.03	-64.56	-13.00	-51.56	peak	
6 *		875.840	-49.19	-13.90	-63.09	-13.00	-50.09	peak	

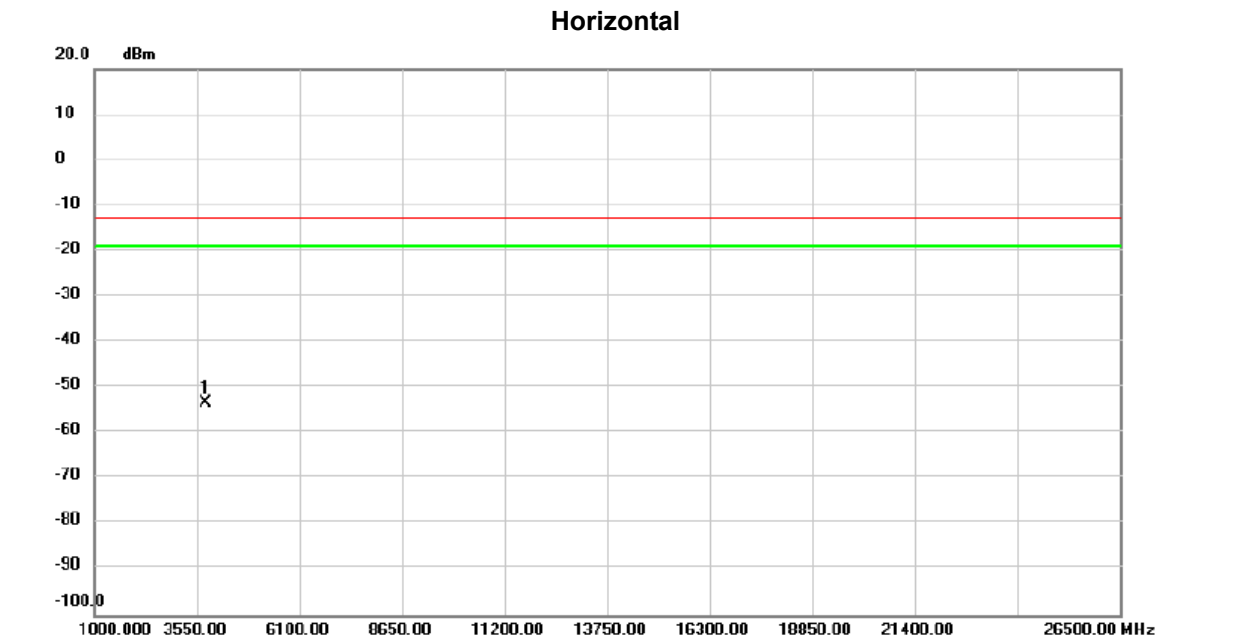
APPENDIX F - RADIATED SPURIOUS EMISSIONS (ABOVE 1000MHZ)

Test Mode	PCS1900_TX CH661_GSM
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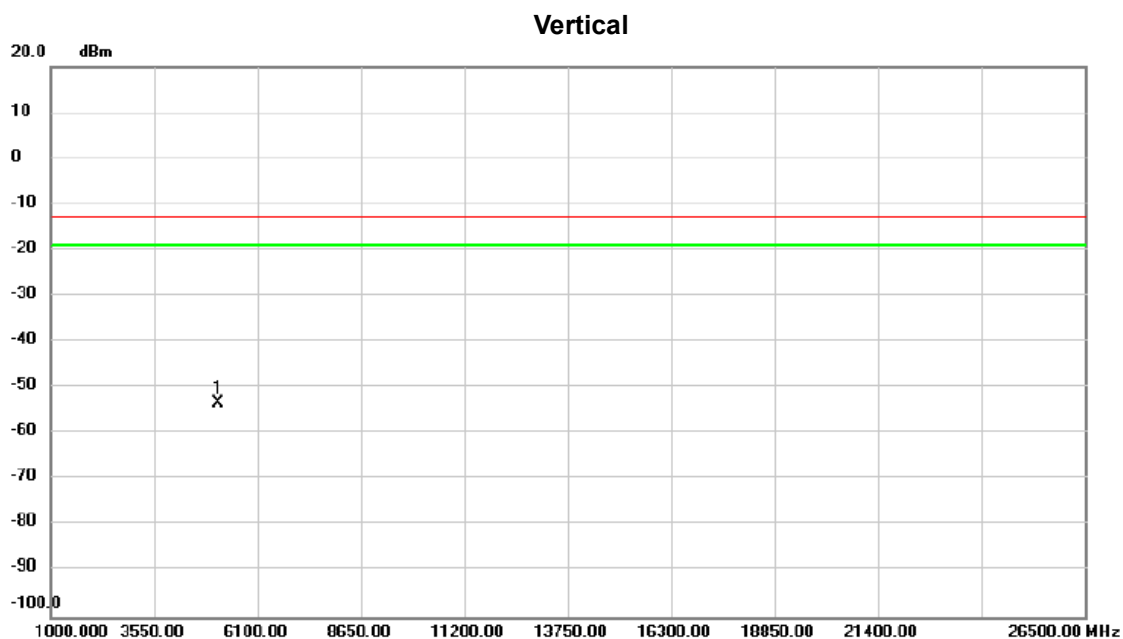
No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	3754.000	-65.85	14.02	-51.83	-13.00	-38.83	peak	

Test Mode	PCS1900_TX CH661_GSM
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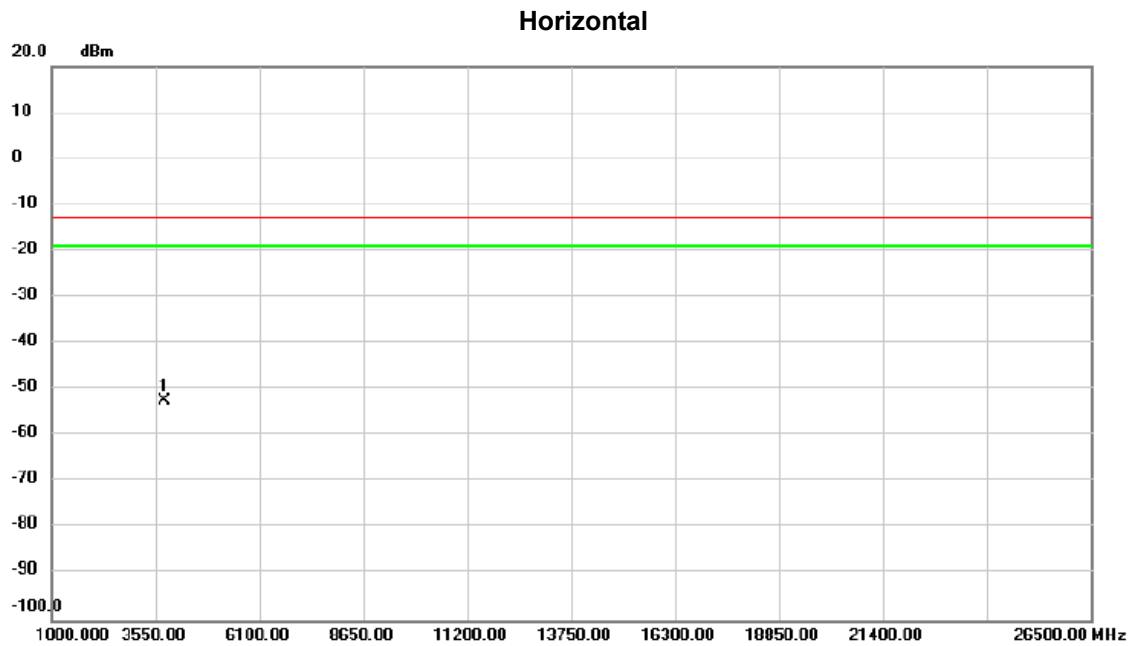
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	3754.000	-67.38	14.02	-53.36	-13.00	-40.36	peak	

Test Mode	WCDMA Band II_TX CH9400
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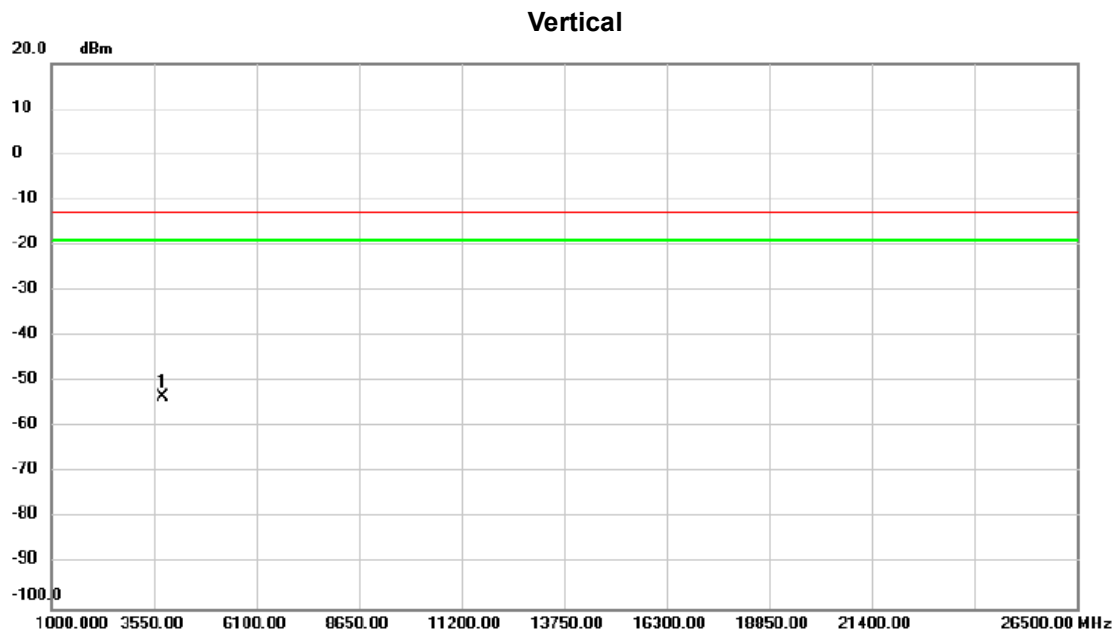
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	5118.250	-71.41	17.98	-53.43	-13.00	-40.43	peak	

Test Mode	WCDMA Band II_TX CH9400
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No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	3754.000	-66.34	14.02	-52.32	-13.00	-39.32	peak	

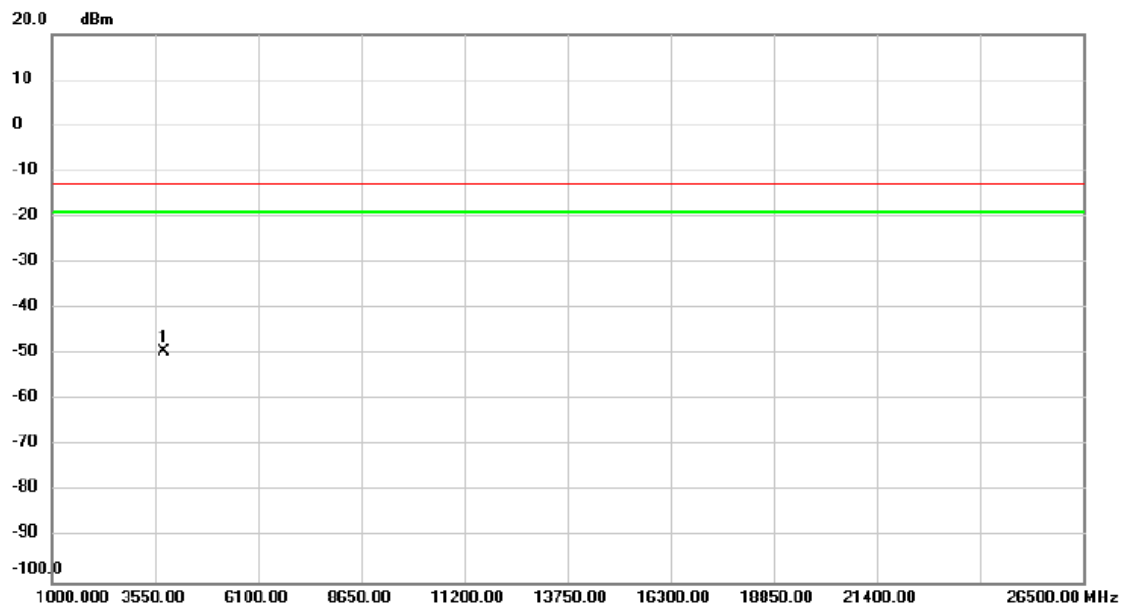
Test Mode	LTE Band 2_TX CH18900_1.4M
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No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	3754.000	-67.38	14.02	-53.36	-13.00	-40.36	peak	

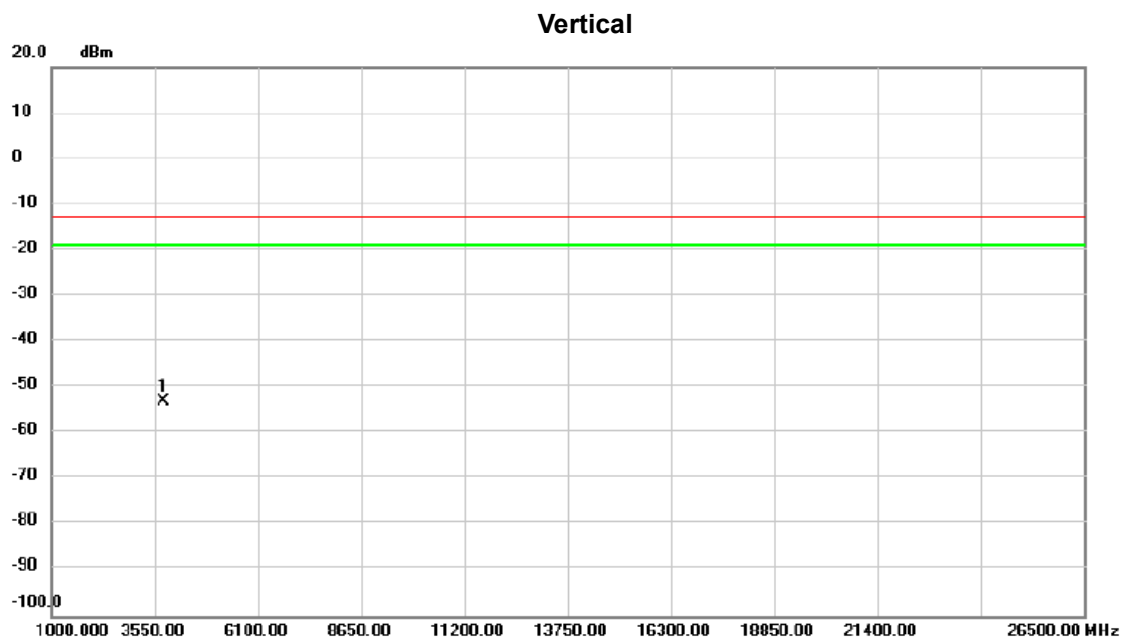
Test Mode	LTE Band 2_TX CH18900_1.4M
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Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	3754.000	-63.33	14.02	-49.31	-13.00	-36.31	peak	

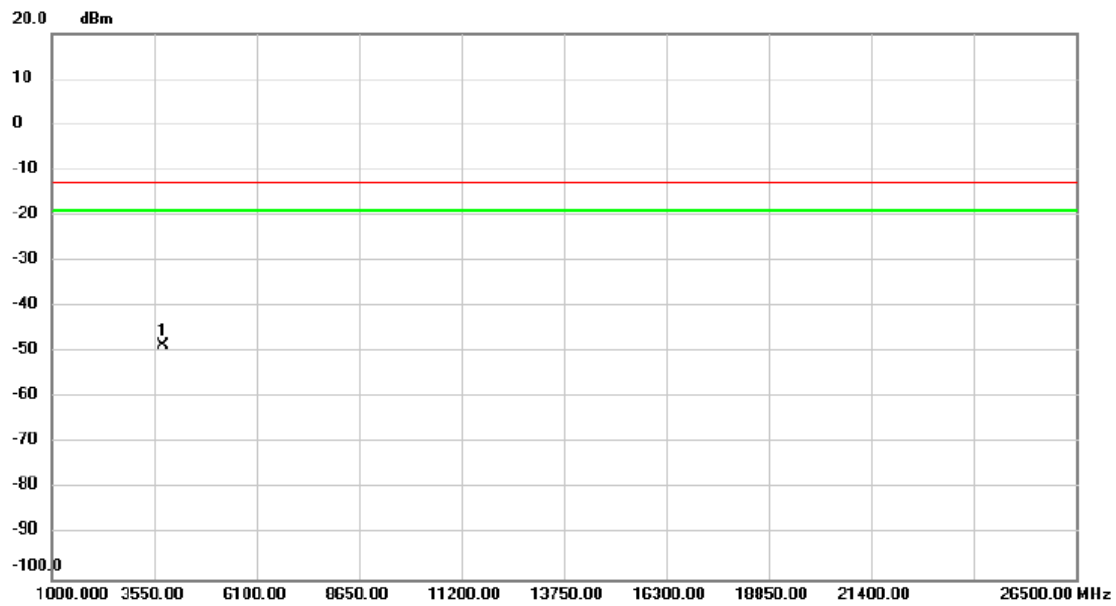
Test Mode	LTE Band 2_ TX CH18900_5M
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No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	3754.000	-67.16	14.02	-53.14	-13.00	-40.14	peak	

Test Mode	LTE Band 2_ TX CH18900_5M
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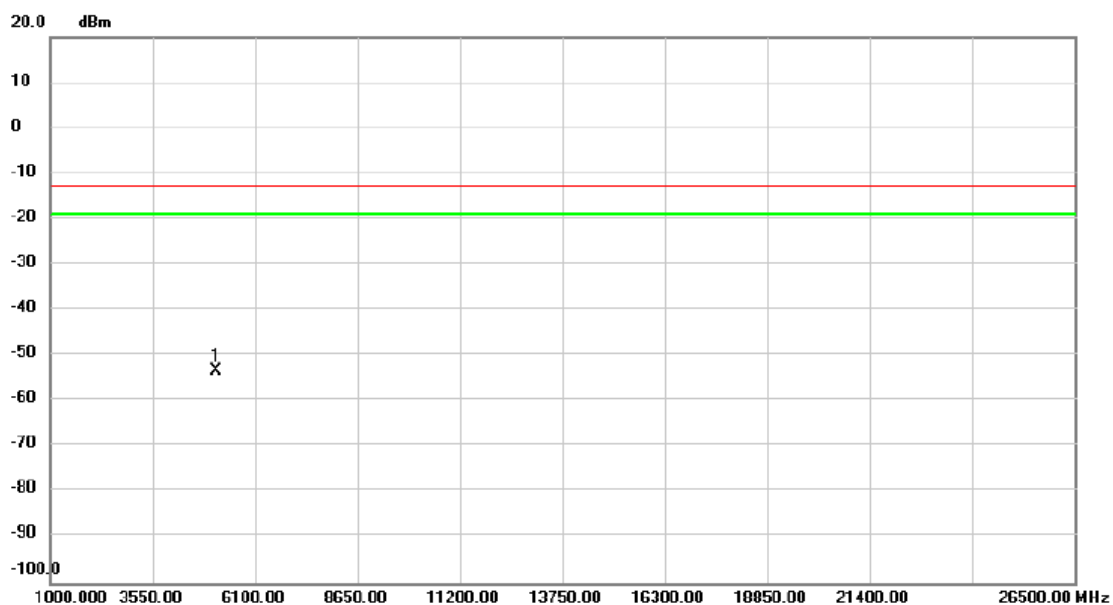
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	3754.000	-62.62	14.02	-48.60	-13.00	-35.60	peak	

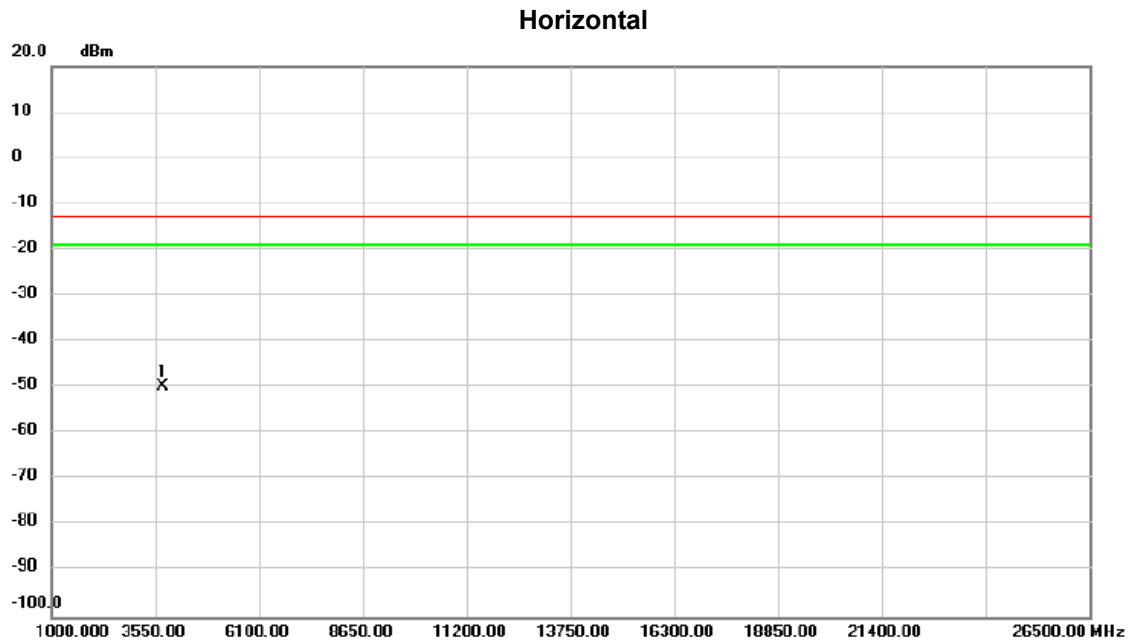
Test Mode	LTE Band 2_TX CH18900_20M
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Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	5131.000	-71.33	18.00	-53.33	-13.00	-40.33	peak	

Test Mode	LTE Band 2_TX CH18900_20M
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No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	3741.250	-63.81	13.98	-49.83	-13.00	-36.83	peak	

APPENDIX G - BAND EDGE

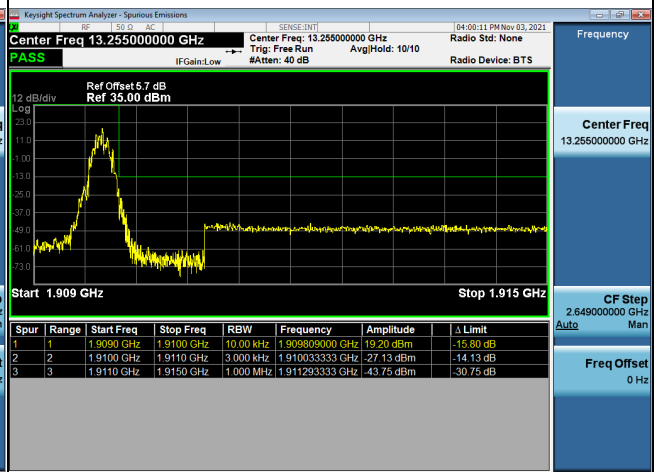
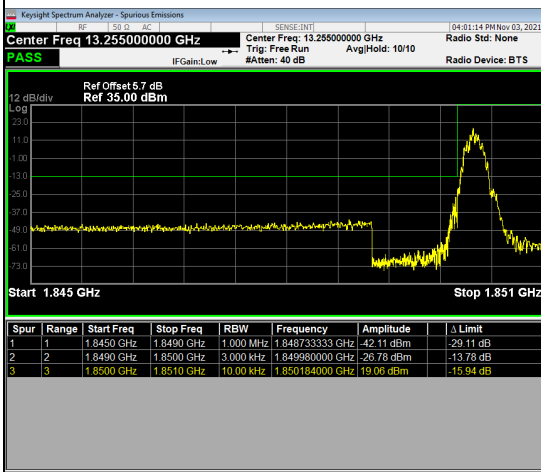
PCS1900_GSM Spectrum Plot

Channel

512

Channel

810



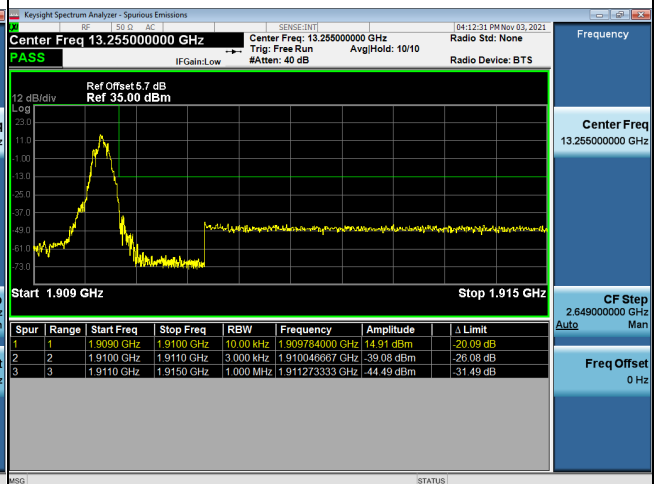
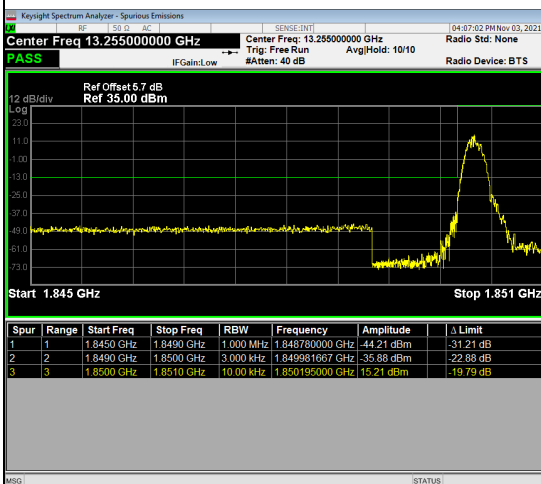
EDGE

Channel

512

Channel

810



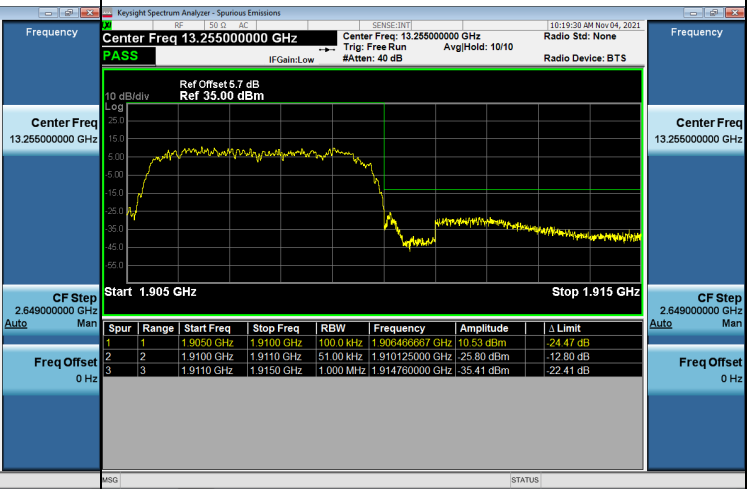
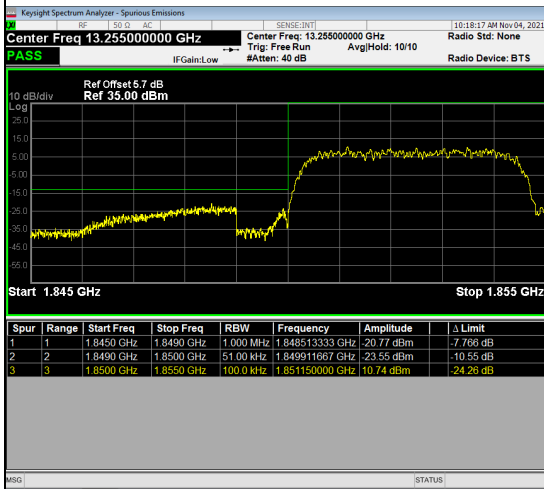
WCDMA Band II_WCDMA Spectrum Plot

Channel

9262

Channel

9538



LTE Band 2_1.4M Spectrum Plot

1RB#0

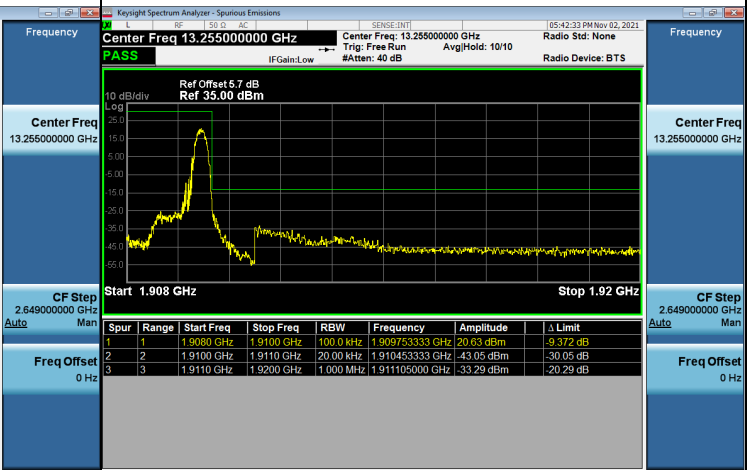
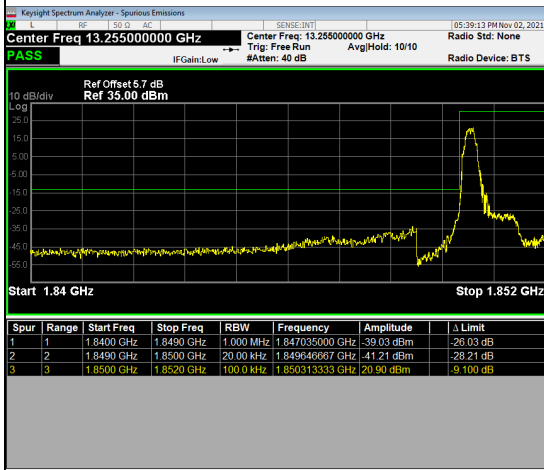
1RB#5

Channel

18607

Channel

19193



6RB#0

Channel

18607

Channel

19193

