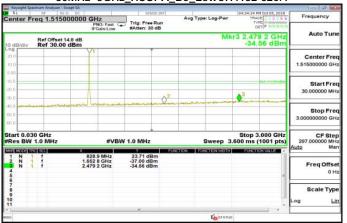
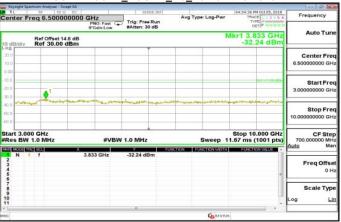




30MHz~3GHz_HSUPA_B5_LowCH4132-826.4



3GHz~10GHz_HSUPA_B5_LowCH4132-826.4



30MHz~3GHz_HSUPA_B5_MidCH4183-836.6



3GHz~10GHz_HSUPA_B5_MidCH4183-836.6



30MHz~3GHz_HSUPA_B5_HighCH4233-846.6



3GHz~10GHz_HSUPA_B5_HighCH4233-846.6

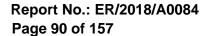


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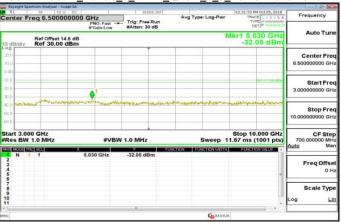




30MHz~3GHz_Band5_1_4MHz_QPSK_1_0_LowCH20407-824.7



3GHz~10GHz_Band5_1_4MHz_QPSK_1_0_LowCH20407-824.7



30MHz~3GHz_Band5_1_4MHz_QPSK_1_0_MidCH20525-836.5



3GHz~10GHz_Band5_1_4MHz_QPSK_1_0_MidCH20525-836.5



30MHz~3GHz_Band5_1_4MHz_QPSK_1_0_HighCH20643-848.3



3GHz~10GHz_Band5_1_4MHz_QPSK_1_0_HighCH20643-848.3



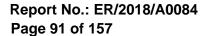
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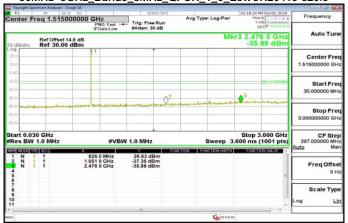
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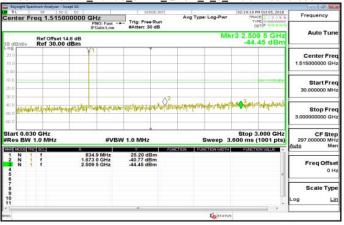
30MHz~3GHz_Band5_3MHz_QPSK_1_0_LowCH20415-825.5



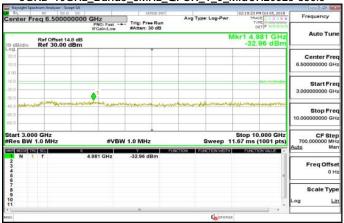
3GHz~10GHz_Band5_3MHz_QPSK_1_0_LowCH20415-825.5



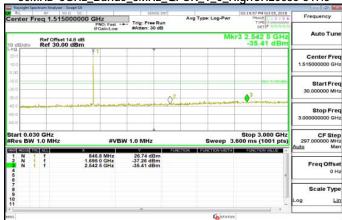
30MHz~3GHz_Band5_3MHz_QPSK_1_0_MidCH20525-836.5



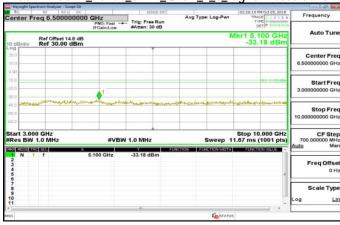
3GHz~10GHz_Band5_3MHz_QPSK_1_0_MidCH20525-836.5



30MHz~3GHz_Band5_3MHz_QPSK_1_0_HighCH20635-847.5



3GHz~10GHz_Band5_3MHz_QPSK_1_0_HighCH20635-847.5



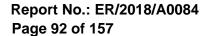
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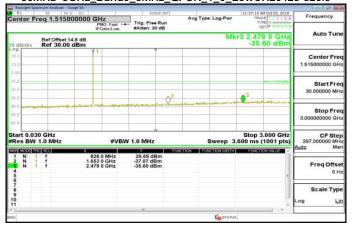
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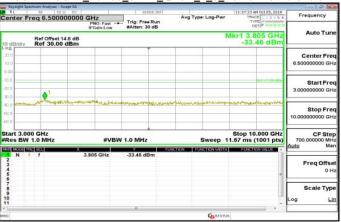




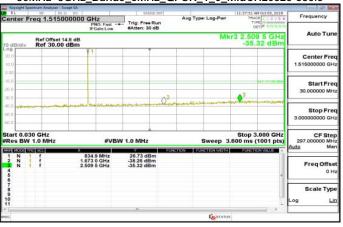
30MHz~3GHz_Band5_5MHz_QPSK_1_0_LowCH20425-826.5



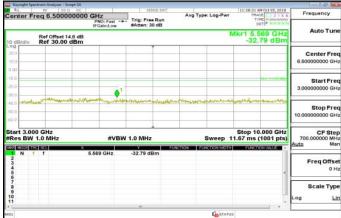
3GHz~10GHz_Band5_5MHz_QPSK_1_0_LowCH20425-826.5



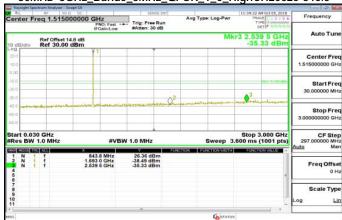
30MHz~3GHz_Band5_5MHz_QPSK_1_0_MidCH20525-836.5



3GHz~10GHz_Band5_5MHz_QPSK_1_0_MidCH20525-836.5



30MHz~3GHz_Band5_5MHz_QPSK_1_0_HighCH20625-846.5



3GHz~10GHz_Band5_5MHz_QPSK_1_0_HighCH20625-846.5



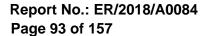
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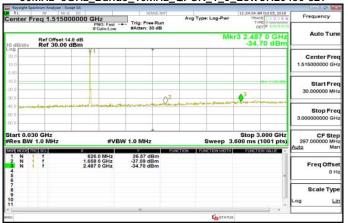
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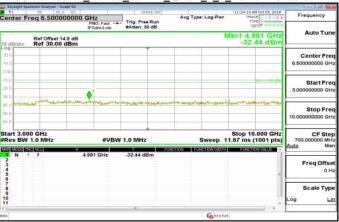




30MHz~3GHz_Band5_10MHz_QPSK_1_0_LowCH20450-829



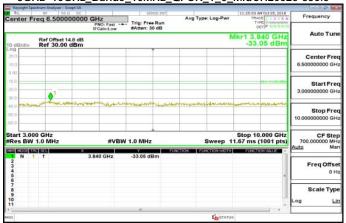
3GHz~10GHz_Band5_10MHz_QPSK_1_0_LowCH20450-829



30MHz~3GHz_Band5_10MHz_QPSK_1_0_MidCH20525-836.5



3GHz~10GHz_Band5_10MHz_QPSK_1_0_MidCH20525-836.5



30MHz~3GHz_Band5_10MHz_QPSK_1_0_HighCH20600-844



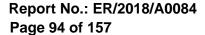
3GHz~10GHz_Band5_10MHz_QPSK_1_0_HighCH20600-844



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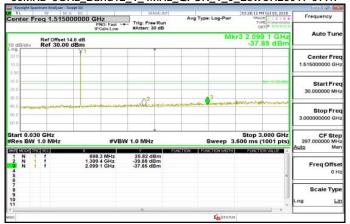
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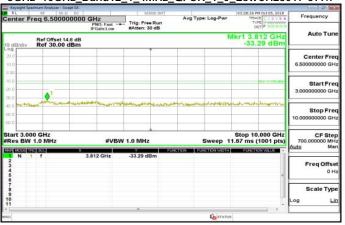




30MHz~3GHz_Band12_1_4MHz_QPSK_1_0_LowCH23017-699.7



3GHz~10GHz_Band12_1_4MHz_QPSK_1_0_LowCH23017-699.7



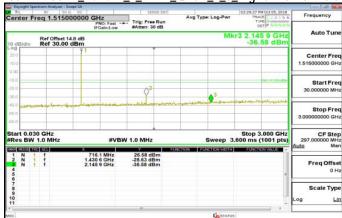
30MHz~3GHz_Band12_1_4MHz_QPSK_1_0_MidCH23095-707.5



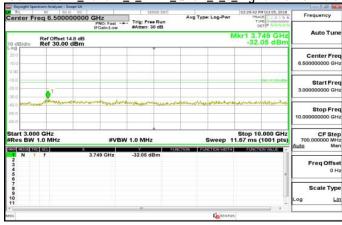
3GHz~10GHz_Band12_1_4MHz_QPSK_1_0_MidCH23095-707.5



30MHz~3GHz_Band12_1_4MHz_QPSK_1_0_HighCH23173-715.3



3GHz~10GHz_Band12_1_4MHz_QPSK_1_0_HighCH23173-715.3

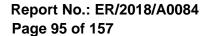


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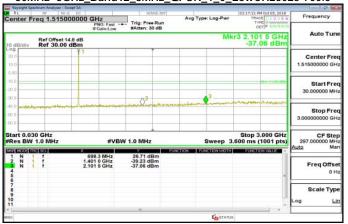
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30MHz~3GHz_Band12_3MHz_QPSK_1_0_LowCH23025-700.5



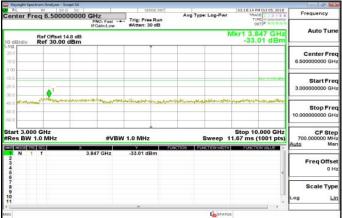
3GHz~10GHz_Band12_3MHz_QPSK_1_0_LowCH23025-700.5



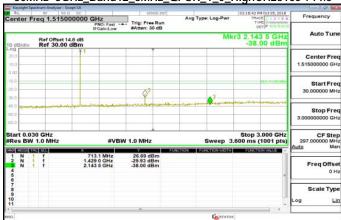
30MHz~3GHz_Band12_3MHz_QPSK_1_0_MidCH23095-707.5



3GHz~10GHz_Band12_3MHz_QPSK_1_0_MidCH23095-707.5



30MHz~3GHz_Band12_3MHz_QPSK_1_0_HighCH23165-714.5



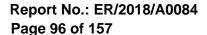
3GHz~10GHz_Band12_3MHz_QPSK_1_0_HighCH23165-714.5



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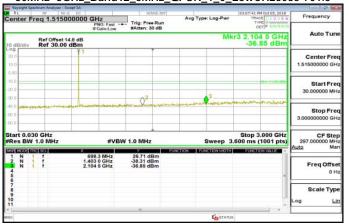
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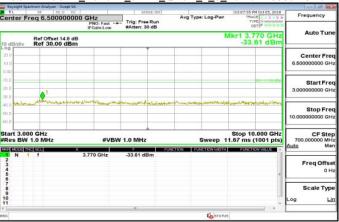




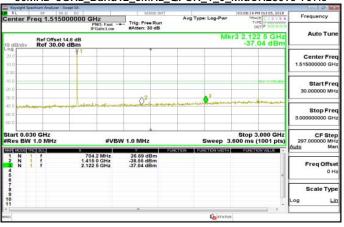
30MHz~3GHz_Band12_5MHz_QPSK_1_0_LowCH23035-701.5



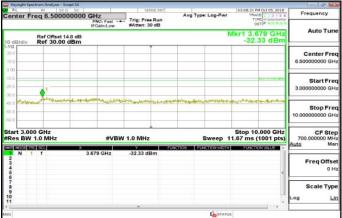
3GHz~10GHz_Band12_5MHz_QPSK_1_0_LowCH23035-701.5



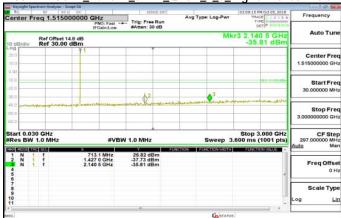
30MHz~3GHz_Band12_5MHz_QPSK_1_0_MidCH23095-707.5



3GHz~10GHz_Band12_5MHz_QPSK_1_0_MidCH23095-707.5



30MHz~3GHz_Band12_5MHz_QPSK_1_0_HighCH23155-713.5



3GHz~10GHz_Band12_5MHz_QPSK_1_0_HighCH23155-713.5



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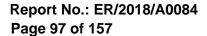
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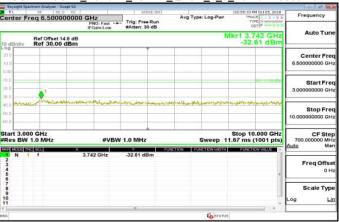




30MHz~3GHz_Band12_10MHz_QPSK_1_0_LowCH23060-704



3GHz~10GHz_Band12_10MHz_QPSK_1_0_LowCH23060-704



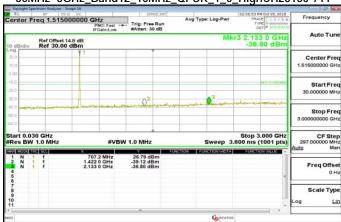
30MHz~3GHz_Band12_10MHz_QPSK_1_0_MidCH23095-707.5



3GHz~10GHz_Band12_10MHz_QPSK_1_0_MidCH23095-707.5



30MHz~3GHz_Band12_10MHz_QPSK_1_0_HighCH23130-711



3GHz~10GHz_Band12_10MHz_QPSK_1_0_HighCH23130-711



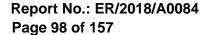
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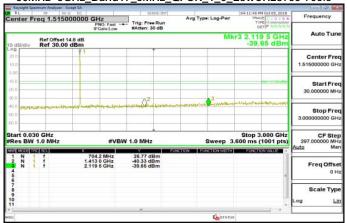
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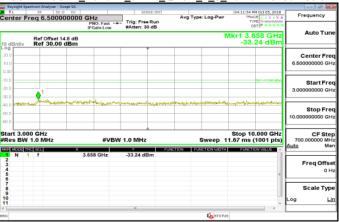




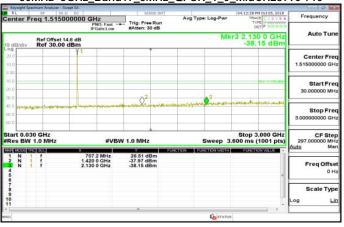
30MHz~3GHz_Band17_5MHz_QPSK_1_0_LowCH23755-706.5



3GHz~10GHz_Band17_5MHz_QPSK_1_0_LowCH23755-706.5



30MHz~3GHz_Band17_5MHz_QPSK_1_0_MidCH23790-710



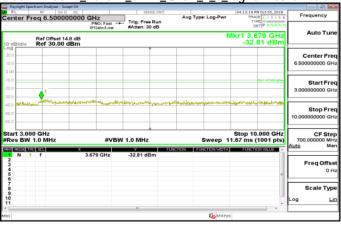
3GHz~10GHz_Band17_5MHz_QPSK_1_0_MidCH23790-710



30MHz~3GHz_Band17_5MHz_QPSK_1_0_HighCH23825-713.5



3GHz~10GHz_Band17_5MHz_QPSK_1_0_HighCH23825-713.5



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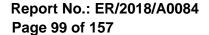
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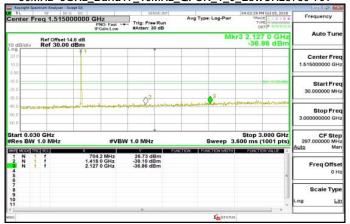
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f (886-2) 2298-0488





30MHz~3GHz_Band17_10MHz_QPSK_1_0_LowCH23780-709



3GHz~10GHz_Band17_10MHz_QPSK_1_0_LowCH23780-709



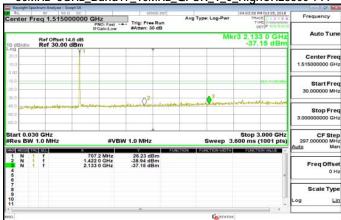
30MHz~3GHz_Band17_10MHz_QPSK_1_0_MidCH23790-710



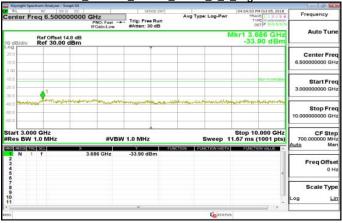
3GHz~10GHz_Band17_10MHz_QPSK_1_0_MidCH23790-710



30MHz~3GHz_Band17_10MHz_QPSK_1_0_HighCH23800-711



3GHz~10GHz_Band17_10MHz_QPSK_1_0_HighCH23800-711



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10. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

10.1. Standard Applicable

According to FCC §2.1053,

FCC §22.917(a), §24.238(a), §27.53 (h), the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than 43 + 10 log (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm).

FCC §27.53(a)

Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

FCC §27.53(h) (3)

Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

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FCC §27.53(m) (4)

For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge. where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, 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; for mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

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Table 2 — Unwanted Emissions for Mobile, Portable and Low-Power Fixed Subscriber **Equipment**

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

Note: Measured at the edges of the highest and lowest frequency range(s) in which the equipment is designed to operate. See Section 1.2 for the permitted frequency ranges for various equipment types.

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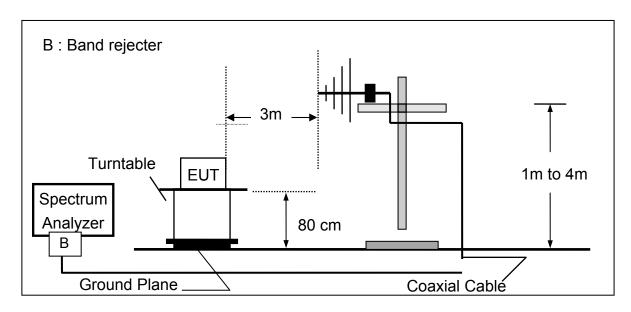




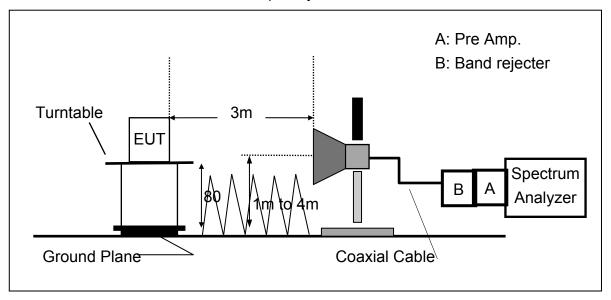
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10.2. EUT Setup

Radiated Emission Test Set-Up, Frequency Below 1000MHz



Radiated Emission Test Set-UP Frequency Over 1 GHz



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10.3. Measurement Procedure:

The EUT was placed on a non-conductive; the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequencies (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

"F": denotes Fundamental Frequency.; "H": denotes Harmonic Frequency. Note:

"E": denotes Band Edge Frequency.; "S": denotes Spurious Frequency.

"---": denotes Noise Floor.

10.4. Measurement Equipment Used:

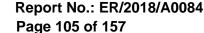
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Bi-log Antenna	SCHWAZBECK	VULB9168	378	2017/12/29	2018/12/28
Bi-log Antenna	SCHWAZBECK	VULB9168	300	2017/12/20	2018/12/19
Horn Antenna	Schwarzbeck	BBHA9120D	603	2018/04/13	2019/04/12
Horn Antenna	Schwarzbeck	BBHA9120D	1441	2018/08/16	2019/08/15
3m Site NSA	SGS	966 chamber	N/A	2018/01/02	2019/01/01
Spectrum Analyzer	Agilent	E4446A	MY51100003	2018/05/15	2019/05/14
EMI Test Receiver	R&S	ESCI7	100335	2018/02/02	2019/02/01
Radio Communica- tion Analyer	Anritsu	MT8820C	6201465317	2018/01/17	2019/01/16
Pre-Amplifier	HP	8449B	3008A00578	2018/01/02	2019/01/01
Pre-Amplifier	HP	8447D	2944A07676	2018/01/02	2019/01/01
Attenuator	Mini-Circuit	BW-S10W2+	2	2018/01/02	2019/01/01
1GHz High Pass Fil- ter	Micro-Tronics	HPM50108	32	2018/01/02	2019/01/01
Low Loss Cable	Huber Suhner	966_RX	9	2018/01/02	2019/01/01
Low Loss Cable	Huber Suhner	966 TX	1	2018/01/02	2019/01/01

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:VERTICAL



10.5. Measurement Result:

EUT Pol.

Radiated Spurious Emission Measurement Result: GPRS 850 Mode

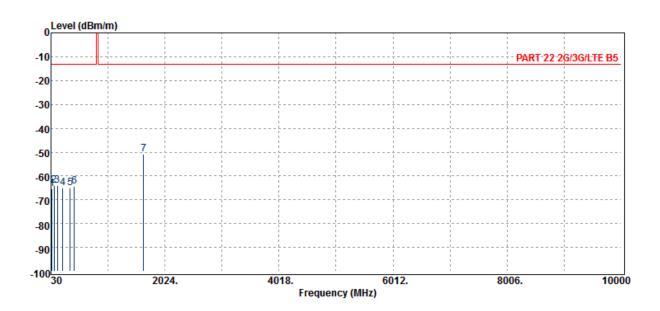
:E2 Plane

Operation Band :GPRS 850 Temp./Humi. :24 deg C / 61 RH

Measurement Antenna Pol.

Fundamental Frequency :824.2 MHz Engineer :Wei

Operation Mode :Tx CH LOW

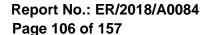


Freq.	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
47.46	-65.31	-52.94	-11.65	-0.72	-13.00	-52.31
81.41	-63.87	-60.81	-2.09	-0.97	-13.00	-50.87
141.55	-64.11	-60.62	-2.22	-1.27	-13.00	-51.11
238.55	-64.88	-66.67	3.45	-1.66	-13.00	-51.88
362.71	-65.15	-66.90	3.82	-2.07	-13.00	-52.15
440.31	-64.34	-65.96	3.57	-1.95	-13.00	-51.34
1648.40	-50.94	-53.57	6.97	-4.35	-13.00	-37.94

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Operation Band Fundamental Frequency **Operation Mode**

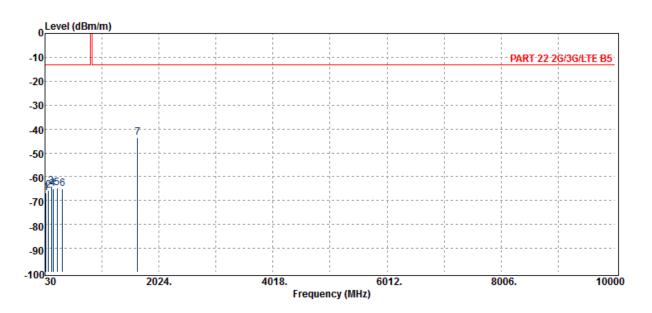
EUT Pol.

:GPRS 850 :824.2 MHz :Tx CH LOW :E2 Plane

Temp./Humi. :24 deg_C / 61 RH

:Wei Engineer

:HORIZONTAL Measurement Antenna Pol.



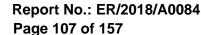
Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		_
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
47.46	-66.92	-54.56	-11.65	-0.72	-13.00	-53.92
90.14	-65.79	-64.23	-0.55	-1.01	-13.00	-52.79
141.55	-63.97	-60.48	-2.22	-1.27	-13.00	-50.97
173.56	-65.04	-63.65	-0.04	-1.35	-13.00	-52.04
240.49	-64.80	-66.61	3.48	-1.67	-13.00	-51.80
337.49	-65.13	-66.96	3.80	-1.96	-13.00	-52.13
1648.40	-43.45	-46.07	6.97	-4.35	-13.00	-30.45

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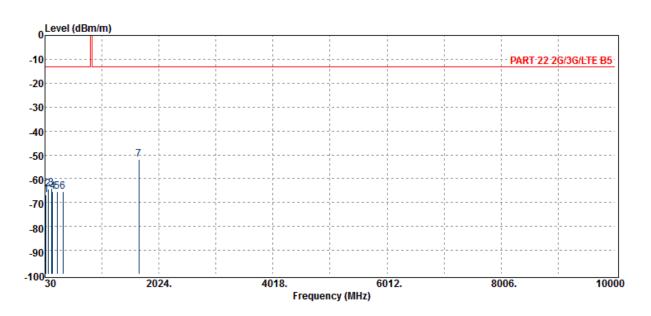
Operation Band :GPRS 850 Fundamental Frequency :836.6 MHz

Operation Mode :Tx CH MID

EUT Pol. :E2 Plane Temp./Humi. :24 deg_C / 61 RH

:Wei Engineer

:VERTICAL Measurement Antenna Pol.

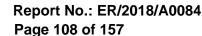


Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		_
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
49.40	-66.62	-54.55	-11.34	-0.74	-13.00	-53.62
81.41	-64.37	-61.31	-2.09	-0.97	-13.00	-51.37
141.55	-64.12	-60.62	-2.22	-1.27	-13.00	-51.12
165.80	-65.46	-63.28	-0.88	-1.31	-13.00	-52.46
243.40	-65.28	-67.09	3.50	-1.68	-13.00	-52.28
340.40	-65.32	-67.16	3.81	-1.98	-13.00	-52.32
1673.20	-51.97	-54.64	7.06	-4.39	-13.00	-38.97

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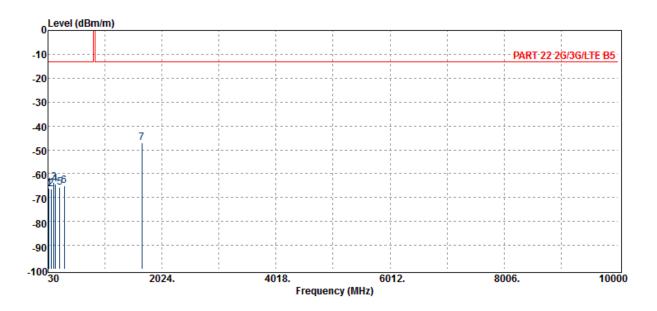
Operation Band :GPRS 850 Fundamental Frequency :836.6 MHz **Operation Mode**

:Tx CH MID EUT Pol. :E2 Plane

Temp./Humi. :24 deg_C / 61 RH

:Wei Engineer

:HORIZONTAL Measurement Antenna Pol.

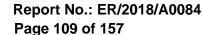


Freq.	ERP/EIRP	SG Output Lovel	Antenna	Cable	Limit	Margin
	15	Output Level	Gain	Loss	ID.	ı.D.
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
46.49	-66.08	-53.56	-11.81	-0.71	-13.00	-53.08
85.29	-66.49	-64.12	-1.37	-0.99	-13.00	-53.49
136.70	-63.60	-60.16	-2.19	-1.24	-13.00	-50.60
159.01	-64.41	-61.81	-1.30	-1.30	-13.00	-51.41
233.70	-65.63	-67.36	3.37	-1.64	-13.00	-52.63
316.15	-64.96	-66.80	3.70	-1.86	-13.00	-51.96
1673.20	-46.94	-49.60	7.06	-4.39	-13.00	-33.94

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:24 deg_C / 61 RH



Operation Band Fundamental Frequency **Operation Mode**

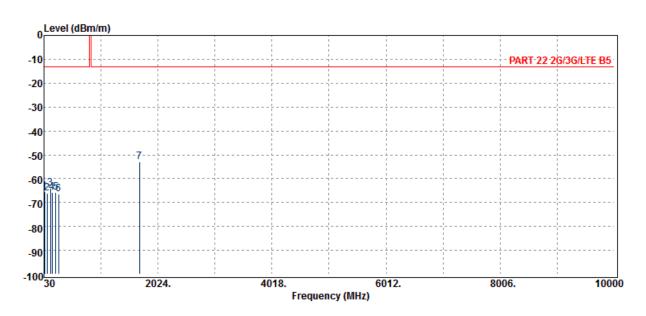
EUT Pol.

:GPRS 850 :848.8 MHz :Tx CH HIGH :E2 Plane

Temp./Humi.

:Wei Engineer

:VERTICAL Measurement Antenna Pol.



Freq.	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dDm	dBm	dBd/dBi	dB	dBm	dB
IVITZ	dBm	UDIII	иви/иві	иь	UDIII	<u>ub</u>
41.64	-65.55	-52.41	-12.47	-0.67	-13.00	-52.55
83.35	-65.97	-63.26	-1.73	-0.98	-13.00	-52.97
138.64	-63.86	-60.35	-2.26	-1.25	-13.00	-50.86
173.56	-65.87	-64.48	-0.04	-1.35	-13.00	-52.87
238.55	-65.64	-67.43	3.45	-1.66	-13.00	-52.64
288.99	-66.29	-67.93	3.42	-1.78	-13.00	-53.29
1697.60	-52.81	-55.51	7.14	-4.43	-13.00	-39.81

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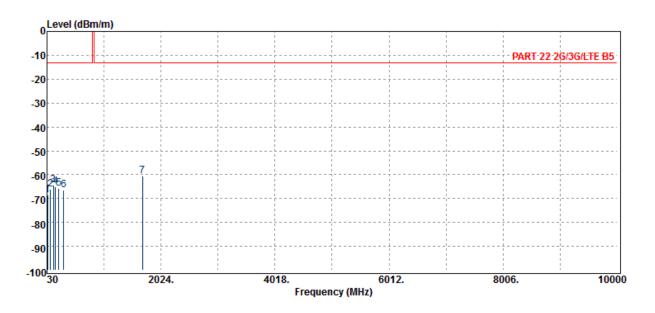
Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:GPRS 850 :848.8 MHz :Tx CH HIGH :E2 Plane

Temp./Humi. :24 deg_C / 61 RH

:Wei Engineer

:HORIZONTAL Measurement Antenna Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		_
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
41.64	-68.51	-55.37	-12.47	-0.67	-13.00	-55.51
90.14	-66.04	-64.48	-0.55	-1.01	-13.00	-53.04
141.55	-64.50	-61.00	-2.22	-1.27	-13.00	-51.50
178.41	-65.02	-64.38	0.73	-1.37	-13.00	-52.02
236.61	-65.66	-67.43	3.42	-1.65	-13.00	-52.66
321.00	-66.36	-68.21	3.72	-1.87	-13.00	-53.36
1697.60	-60.55	-63.26	7.14	-4.43	-13.00	-47.55

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Operation Mode

Report No.: ER/2018/A0084

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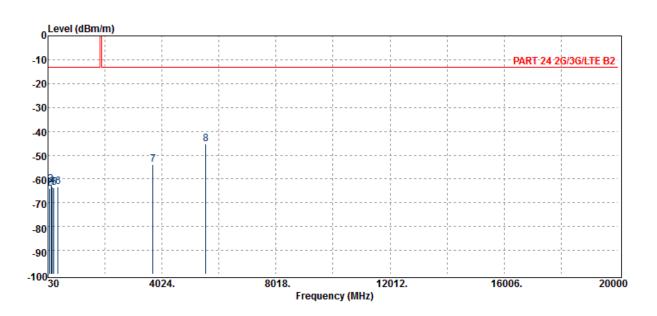
Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

:Tx CH LOW

Operation Band :GPRS 1900 Temp./Humi. :22 deg_C / 61 RH

Fundamental Frequency :1850.2 MHz Engineer :Wei

EUT Pol. :E2 Plane :VERTICAL Measurement Antenna Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
-		Output Level	Gain	Loss		_
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
41.64	-63.80	-52.80	-10.32	-0.67	-13.00	-50.80
85.29	-63.90	-63.69	0.78	-0.99	-13.00	-50.90
139.61	-62.20	-60.80	-0.14	-1.26	-13.00	-49.20
178.41	-63.45	-64.96	2.88	-1.37	-13.00	-50.45
236.61	-63.50	-67.42	5.57	-1.65	-13.00	-50.50
377.26	-63.17	-67.06	5.93	-2.03	-13.00	-50.17
3700.40	-54.10	-59.13	12.57	-6.91	-13.00	-41.10
5550.60	-45.25	-49.32	13.07	-8.45	-13.00	-32.25

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Operation Band Fundamental Frequency **Operation Mode**

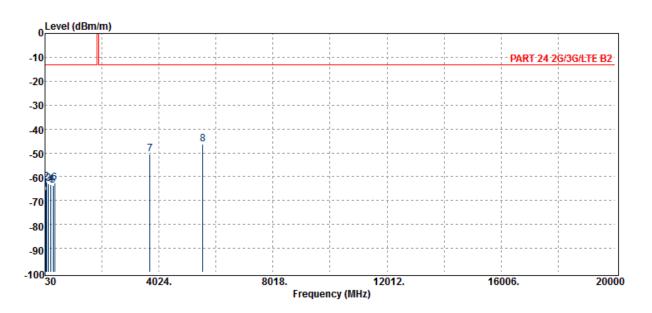
EUT Pol.

:GPRS 1900 :1850.2 MHz :Tx CH LOW :E2 Plane

Temp./Humi. :22 deg_C / 61 RH

:Wei Engineer

:HORIZONTAL Measurement Antenna Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
•		Output Level	Gain	Loss		_
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
46.49	-65.50	-55.13	-9.66	-0.71	-13.00	-52.50
86.26	-62.32	-62.28	0.95	-0.99	-13.00	-49.32
151.25	-62.89	-62.01	0.42	-1.29	-13.00	-49.89
235.64	-63.40	-67.30	5.55	-1.65	-13.00	-50.40
316.15	-63.73	-67.71	5.85	-1.86	-13.00	-50.73
364.65	-62.63	-66.52	5.96	-2.07	-13.00	-49.63
3700.40	-50.60	-55.63	12.57	-6.91	-13.00	-37.60
5550.60	-46.46	-50.52	13.07	-8.45	-13.00	-33.46

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Operation Band Fundamental Frequency

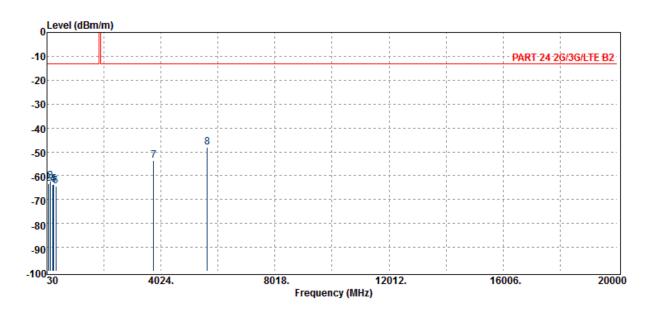
:1880 MHz **Operation Mode** :Tx CH MID EUT Pol. :E2 Plane

:GPRS 1900

Temp./Humi. :22 deg_C / 61 RH

Engineer :Wei

:VERTICAL Measurement Antenna Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
•		Output Level	Gain	Loss		_
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
41.64	-62.62	-51.62	-10.32	-0.67	-13.00	-49.62
83.35	-63.42	-62.87	0.42	-0.98	-13.00	-50.42
151.25	-62.38	-61.50	0.42	-1.29	-13.00	-49.38
236.61	-63.69	-67.60	5.57	-1.65	-13.00	-50.69
275.41	-63.65	-67.52	5.60	-1.73	-13.00	-50.65
347.19	-64.33	-68.30	5.99	-2.02	-13.00	-51.33
3760.00	-53.51	-58.64	12.61	-6.89	-13.00	-40.51
5640.00	-48.14	-52.05	13.01	-8.53	-13.00	-35.14

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Operation Band Fundamental Frequency **Operation Mode**

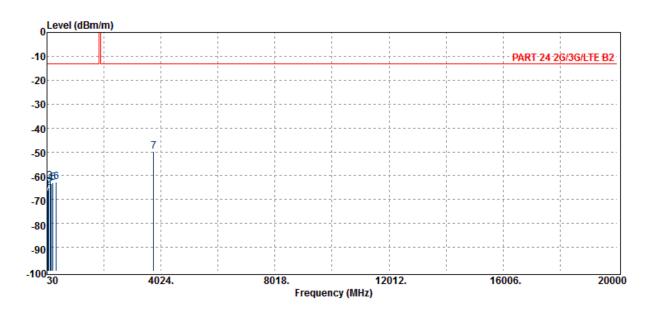
EUT Pol.

:GPRS 1900 :1880 MHz :Tx CH MID :E2 Plane

Temp./Humi. :22 deg_C / 61 RH

Engineer :Wei

:HORIZONTAL Measurement Antenna Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
46.49	-65.94	-55.57	-9.66	-0.71	-13.00	-52.94
90.14	-64.99	-65.58	1.60	-1.01	-13.00	-51.99
140.58	-62.43	-61.04	-0.12	-1.26	-13.00	-49.43
165.80	-63.49	-63.45	1.27	-1.31	-13.00	-50.49
243.40	-62.99	-66.95	5.65	-1.68	-13.00	-49.99
361.74	-62.74	-66.65	5.97	-2.06	-13.00	-49.74
3760.00	-49.81	-54.93	12.61	-6.89	-13.00	-36.81

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Operation Band Fundamental Frequency **Operation Mode**

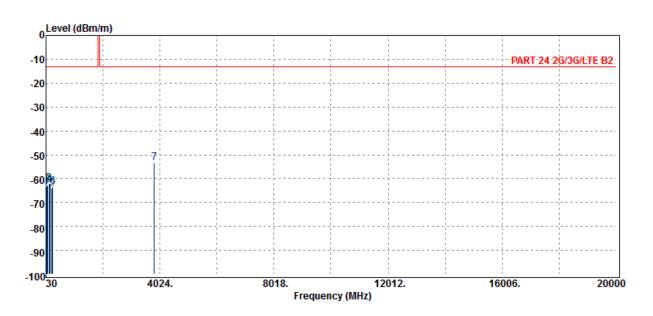
EUT Pol.

:GPRS 1900 :1909.8 MHz :Tx CH HIGH :E2 Plane

Temp./Humi. :22 deg_C / 61 RH

Engineer :Wei

:VERTICAL Measurement Antenna Pol.



Freq.	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dDm	dBm	dBd/dBi	dB	dBm	dB
IVITZ	dBm	UDIII	ubu/ubi	иь	UDIII	<u>ub</u>
47.46	-63.21	-53.00	-9.50	-0.72	-13.00	-50.21
83.35	-62.56	-62.00	0.42	-0.98	-13.00	-49.56
138.64	-61.80	-60.44	-0.11	-1.25	-13.00	-48.80
165.80	-62.25	-62.22	1.27	-1.31	-13.00	-49.25
233.70	-64.13	-68.01	5.52	-1.64	-13.00	-51.13
272.50	-63.32	-67.22	5.63	-1.73	-13.00	-50.32
3819.60	-53.24	-58.30	12.66	-7.02	-13.00	-40.24

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Operation Band Fundamental Frequency **Operation Mode**

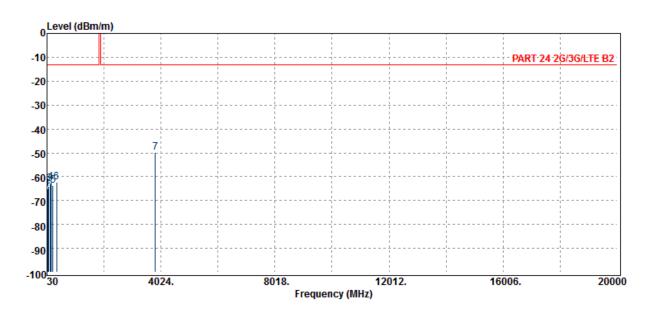
EUT Pol.

:GPRS 1900 :1909.8 MHz :Tx CH HIGH :E2 Plane

Temp./Humi. :22 deg_C / 61 RH

Engineer :Wei

:HORIZONTAL Measurement Antenna Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		_
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
46.49	-65.10	-54.73	-9.66	-0.71	-13.00	-52.10
86.26	-64.13	-64.09	0.95	-0.99	-13.00	-51.13
140.58	-62.92	-61.53	-0.12	-1.26	-13.00	-49.92
165.80	-62.31	-62.27	1.27	-1.31	-13.00	-49.31
236.61	-63.60	-67.51	5.57	-1.65	-13.00	-50.60
376.29	-62.37	-66.26	5.93	-2.03	-13.00	-49.37
3819.60	-49.81	-54.88	12.66	-7.02	-13.00	-36.81

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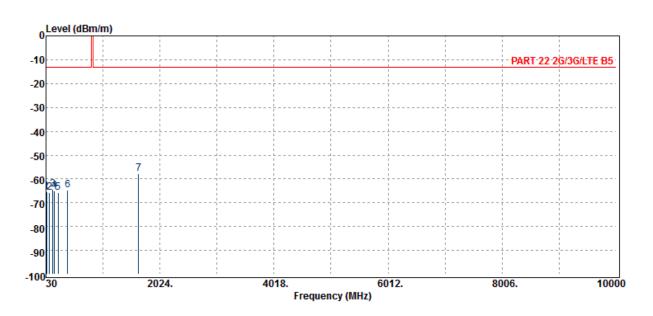
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Radiated Spurious Emission Measurement Result: WCDMA Band 5 Mode

Operation Band Temp./Humi. :WCDMA B5 :24 deg_C / 61 RH

Fundamental Frequency :826.4 MHz Engineer :Wei **Operation Mode** :Tx CH LOW

EUT Pol. :H Plane :VERTICAL Measurement Antenna Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		_
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
						_
42.61	-65.30	-52.27	-12.35	-0.68	-13.00	-52.30
90.14	-65.80	-64.24	-0.55	-1.01	-13.00	-52.80
146.40	-64.46	-61.19	-1.98	-1.29	-13.00	-51.46
180.35	-65.04	-64.70	1.04	-1.38	-13.00	-52.04
241.46	-65.61	-67.42	3.49	-1.68	-13.00	-52.61
405.39	-64.58	-66.13	3.69	-2.15	-13.00	-51.58
1652.80	-57.93	-62.71	9.14	-4.36	-13.00	-44.93

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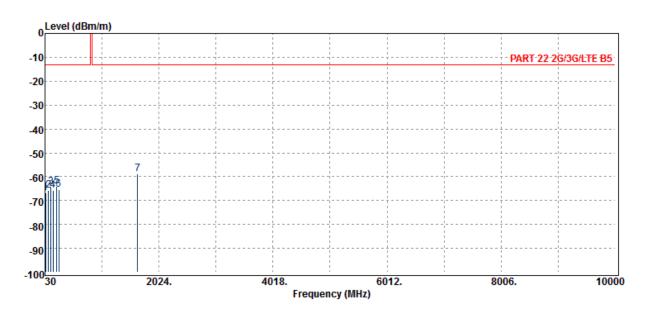
Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:WCDMA B5 :826.4 MHz :Tx CH LOW :H Plane

Temp./Humi. :24 deg_C / 61 RH

:Wei Engineer

:HORIZONTAL Measurement Antenna Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
•		Output Level	Gain	Loss		
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
42.61	-66.90	-53.87	-12.35	-0.68	-13.00	-53.90
91.11	-65.68	-64.04	-0.62	-1.01	-13.00	-52.68
136.70	-64.36	-60.92	-2.19	-1.24	-13.00	-51.36
173.56	-65.71	-64.32	-0.04	-1.35	-13.00	-52.71
236.61	-63.91	-65.68	3.42	-1.65	-13.00	-50.91
269.59	-65.31	-67.09	3.51	-1.72	-13.00	-52.31
1652.80	-58.99	-63.77	9.14	-4.36	-13.00	-45.99

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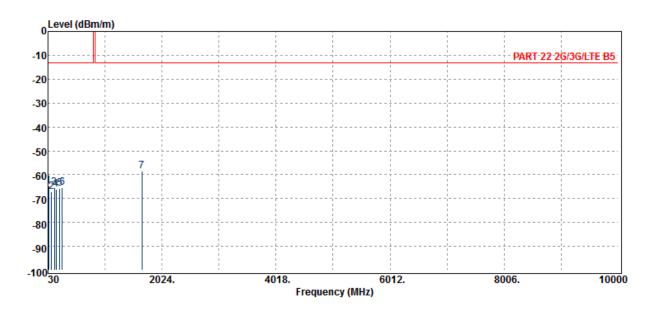
Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:WCDMA B5 :836.6 MHz :Tx CH MID :H Plane

Temp./Humi. :24 deg_C / 61 RH

:Wei Engineer

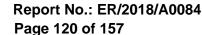
:VERTICAL Measurement Antenna Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		_
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
41.64	-64.80	-51.66	-12.47	-0.67	-13.00	-51.80
90.14	-67.13	-65.57	-0.55	-1.01	-13.00	-54.13
140.58	-65.24	-61.70	-2.27	-1.26	-13.00	-52.24
173.56	-66.24	-64.85	-0.04	-1.35	-13.00	-53.24
236.61	-65.88	-67.64	3.42	-1.65	-13.00	-52.88
282.20	-65.56	-67.23	3.42	-1.75	-13.00	-52.56
1673.20	-58.44	-63.26	9.21	-4.39	-13.00	-45.44

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Operation Band Fundamental Frequency **Operation Mode**

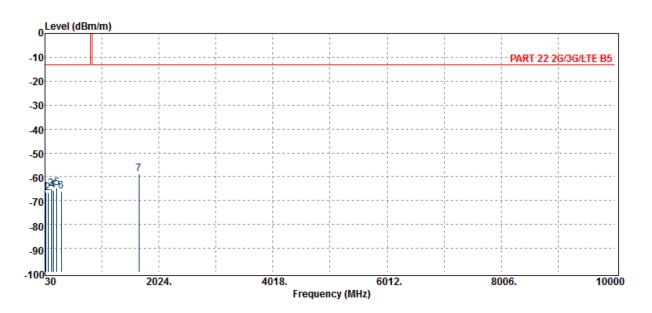
EUT Pol.

:WCDMA B5 :836.6 MHz :Tx CH MID :H Plane

Temp./Humi. :24 deg_C / 61 RH

:Wei Engineer

:HORIZONTAL Measurement Antenna Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		_
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
41.64	-66.39	-53.25	-12.47	-0.67	-13.00	-53.39
86.26	-66.66	-64.47	-1.20	-0.99	-13.00	-53.66
143.49	-65.15	-61.74	-2.13	-1.28	-13.00	-52.15
167.74	-65.75	-63.67	-0.76	-1.32	-13.00	-52.75
238.55	-64.58	-66.37	3.45	-1.66	-13.00	-51.58
314.21	-66.03	-67.86	3.69	-1.86	-13.00	-53.03
1673.20	-58.66	-63.47	9.21	-4.39	-13.00	-45.66

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Operation Band Fundamental Frequency **Operation Mode**

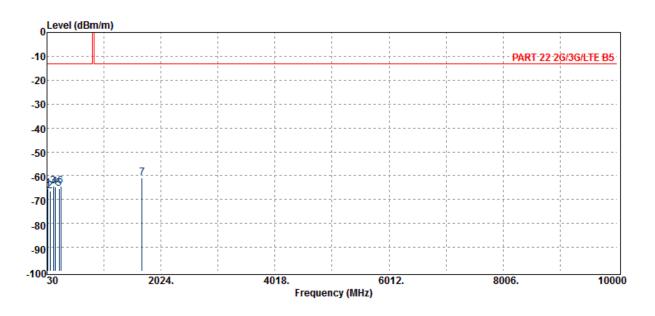
EUT Pol.

:WCDMA B5 :846.6 MHz :Tx CH HIGH :H Plane

Temp./Humi. :24 deg_C / 61 RH

:Wei Engineer

:VERTICAL Measurement Antenna Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		_
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
47.46	-65.46	-53.09	-11.65	-0.72	-13.00	-52.46
86.26	-66.37	-64.18	-1.20	-0.99	-13.00	-53.37
141.55	-64.38	-60.89	-2.22	-1.27	-13.00	-51.38
168.71	-64.56	-62.53	-0.70	-1.33	-13.00	-51.56
243.40	-65.37	-67.18	3.50	-1.68	-13.00	-52.37
272.50	-64.28	-66.03	3.48	-1.73	-13.00	-51.28
1693.20	-60.81	-63.51	7.12	-4.43	-13.00	-47.81

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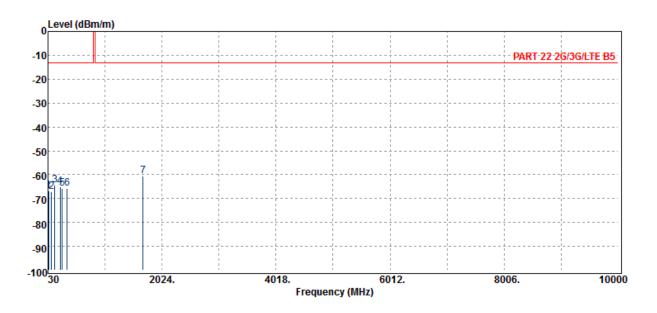
Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:WCDMA B5 :846.6 MHz :Tx CH HIGH :H Plane

Temp./Humi. :24 deg_C / 61 RH

Engineer :Wei

:HORIZONTAL Measurement Antenna Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
•		Output Level	Gain	Loss		
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
42.61	-66.75	-53.73	-12.35	-0.68	-13.00	-53.75
90.14	-66.98	-65.42	-0.55	-1.01	-13.00	-53.98
151.25	-64.25	-61.23	-1.73	-1.29	-13.00	-51.25
243.40	-64.95	-66.76	3.50	-1.68	-13.00	-51.95
275.41	-65.90	-67.62	3.45	-1.73	-13.00	-52.90
366.59	-65.83	-67.56	3.81	-2.07	-13.00	-52.83
1693.20	-60.48	-63.18	7.12	-4.43	-13.00	-47.48

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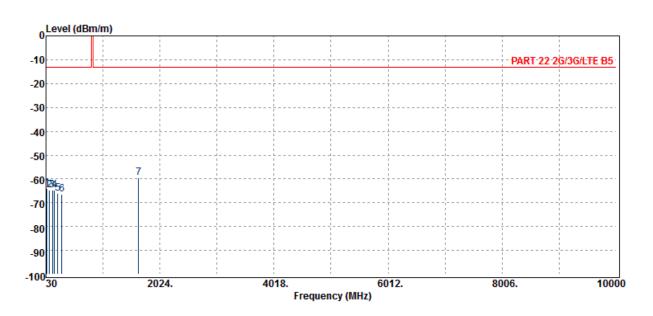
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Radiated Spurious Emission Measurement Result: LTE-Band 5 (The Worst Case)

Operation Band Temp./Humi. :LTE B5 :24.1 deg_C / 65 RH

Fundamental Frequency :825.5 MHz Engineer :Wei **Operation Mode** :Tx CH LOW

EUT Pol. :E2 Plane :VERTICAL Measurement Antenna Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
•		Output Level	Gain	Loss		
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
47.46	-64.07	-51.70	-11.65	-0.72	-13.00	-51.07
91.11	-64.66	-63.02	-0.62	-1.01	-13.00	-51.66
141.55	-64.59	-61.10	-2.22	-1.27	-13.00	-51.59
175.50	-64.79	-63.70	0.27	-1.36	-13.00	-51.79
235.64	-66.15	-67.90	3.40	-1.65	-13.00	-53.15
309.36	-66.57	-68.38	3.66	-1.85	-13.00	-53.57
1651.00	-59.48	-64.26	9.13	-4.35	-13.00	-46.48

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Operation Band Fundamental Frequency **Operation Mode**

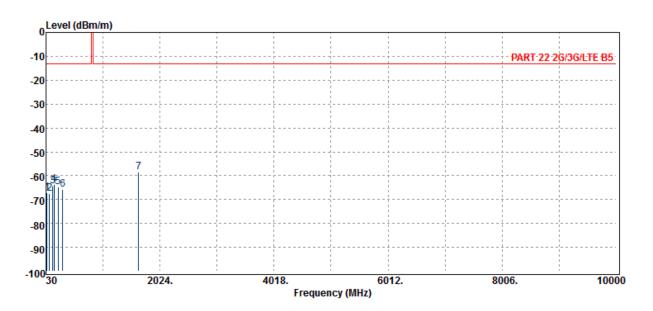
EUT Pol.

:LTE B5 :825.5 MHz :Tx CH LOW :E2 Plane

Temp./Humi. :24.1 deg_C / 65 RH

Engineer :Wei

:HORIZONTAL Measurement Antenna Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
•		Output Level	Gain	Loss		
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
47.46	-67.22	-54.86	-11.65	-0.72	-13.00	-54.22
90.14	-67.49	-65.93	-0.55	-1.01	-13.00	-54.49
146.40	-64.30	-61.03	-1.98	-1.29	-13.00	-51.30
173.56	-63.77	-62.38	-0.04	-1.35	-13.00	-50.77
245.34	-64.68	-66.50	3.51	-1.69	-13.00	-51.68
319.06	-65.85	-67.69	3.71	-1.87	-13.00	-52.85
1651.00	-58.41	-63.19	9.13	-4.35	-13.00	-45.41

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Operation Band :LTE B5 Fundamental Frequency :836.5 MHz **Operation Mode** :Tx CH MID

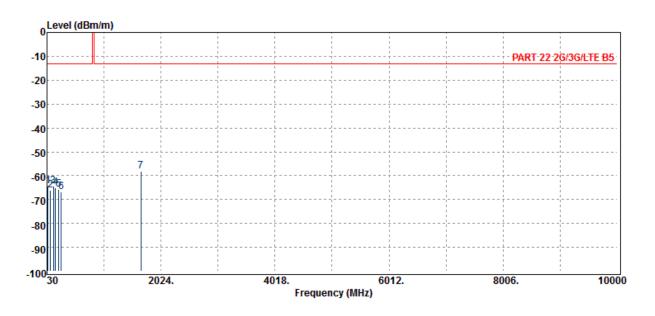
:E2 Plane

EUT Pol.

Temp./Humi. :24.1 deg_C / 65 RH

Engineer :Wei

:VERTICAL Measurement Antenna Pol.



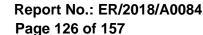
Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		_
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
46.49	-64.35	-51.83	-11.81	-0.71	-13.00	-51.35
91.11	-66.02	-64.39	-0.62	-1.01	-13.00	-53.02
143.49	-64.26	-60.86	-2.13	-1.28	-13.00	-51.26
175.50	-65.13	-64.04	0.27	-1.36	-13.00	-52.13
233.70	-65.85	-67.58	3.37	-1.64	-13.00	-52.85
280.26	-66.85	-68.52	3.42	-1.75	-13.00	-53.85
1673.00	-58.28	-63.09	9.21	-4.39	-13.00	-45.28

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Operation Band Fundamental Frequency

Operation Mode EUT Pol.

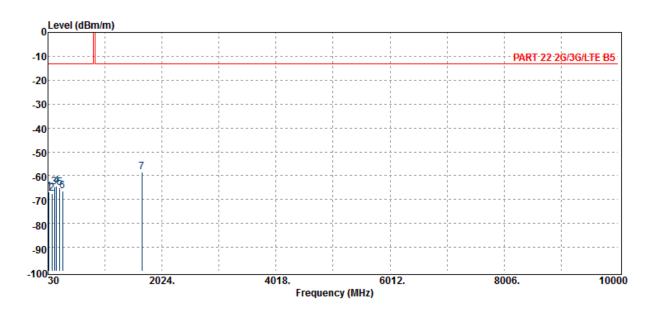
:LTE B5 :836.5 MHz :Tx CH MID

:E2 Plane

Temp./Humi. :24.1 deg_C / 65 RH

Engineer :Wei

:HORIZONTAL Measurement Antenna Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
47.46	-66.94	-54.58	-11.65	-0.72	-13.00	-53.94
95.96	-67.52	-65.53	-0.96	-1.03	-13.00	-54.52
139.61	-64.75	-61.20	-2.29	-1.26	-13.00	-51.75
175.50	-64.42	-63.33	0.27	-1.36	-13.00	-51.42
238.55	-65.15	-66.94	3.45	-1.66	-13.00	-52.15
285.11	-66.32	-67.98	3.42	-1.76	-13.00	-53.32
1673.00	-58.50	-63.32	9.21	-4.39	-13.00	-45.50

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Operation Band Fundamental Frequency **Operation Mode**

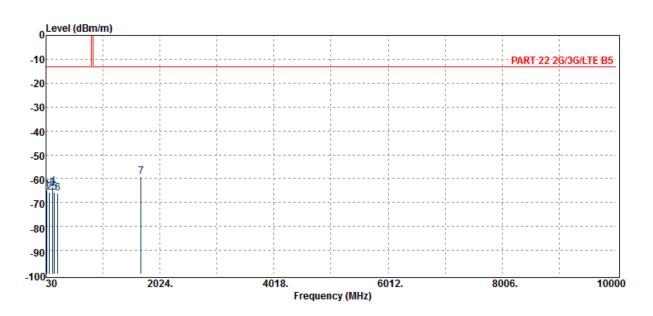
EUT Pol.

:LTE B5 :847.5 MHz :Tx CH HIGH :E2 Plane

Temp./Humi. :24.1 deg_C / 65 RH

Engineer :Wei

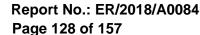
:VERTICAL Measurement Antenna Pol.



Freq.	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
46.49	-64.70	-52.18	-11.81	-0.71	-13.00	-51.70
91.11	-65.86	-64.23	-0.62	-1.01	-13.00	-52.86
138.64	-64.03	-60.52	-2.26	-1.25	-13.00	-51.03
151.25	-63.39	-60.36	-1.73	-1.29	-13.00	-50.39
180.35	-65.64	-65.30	1.04	-1.38	-13.00	-52.64
236.61	-65.93	-67.69	3.42	-1.65	-13.00	-52.93
1695.00	-59.04	-63.89	9.28	-4.43	-13.00	-46.04

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Operation Band Fundamental Frequency

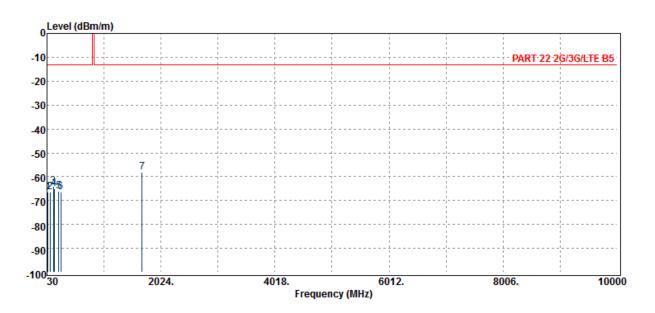
Operation Mode EUT Pol.

:LTE B5 :847.5 MHz :Tx CH HIGH :E2 Plane

Temp./Humi.

:24.1 deg_C / 65 RH :Wei Engineer

:HORIZONTAL Measurement Antenna Pol.



Freq.	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
47.46	-66.29	-53.92	-11.65	-0.72	-13.00	-53.29
85.29	-66.30	-63.93	-1.37	-0.99	-13.00	-53.30
139.61	-64.16	-60.61	-2.29	-1.26	-13.00	-51.16
159.01	-65.17	-62.57	-1.30	-1.30	-13.00	-52.17
238.55	-66.21	-68.00	3.45	-1.66	-13.00	-53.21
269.59	-66.35	-68.14	3.51	-1.72	-13.00	-53.35
1695.00	-58.00	-62.85	9.28	-4.43	-13.00	-45.00

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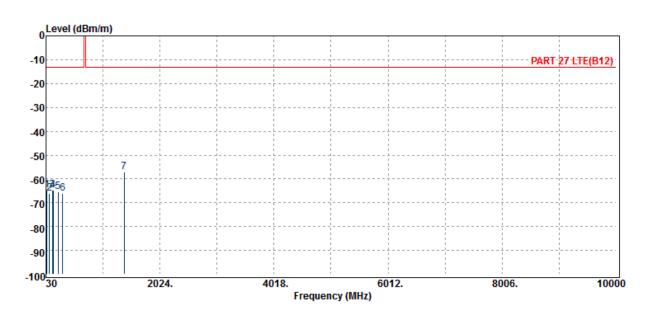
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Radiated Spurious Emission Measurement Result: LTE-Band 12 (The Worst Case)

Operation Band :LTE B12 Temp./Humi. :22 deg_C / 62 RH

Fundamental Frequency :699.7 MHz Engineer :Wei **Operation Mode** :Tx CH LOW

EUT Pol. :E2 Plane :VERTICAL Measurement Antenna Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
•		Output Level	Gain	Loss		
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
46.49	-64.77	-52.25	-11.81	-0.71	-13.00	-51.77
90.14	-66.14	-64.58	-0.55	-1.01	-13.00	-53.14
139.61	-64.77	-61.22	-2.29	-1.26	-13.00	-51.77
159.01	-64.77	-62.17	-1.30	-1.30	-13.00	-51.77
240.49	-65.38	-67.19	3.48	-1.67	-13.00	-52.38
321.00	-65.93	-67.78	3.72	-1.87	-13.00	-52.93
1399.40	-57.02	-61.23	8.19	-3.98	-13.00	-44.02

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Operation Band Fundamental Frequency **Operation Mode**

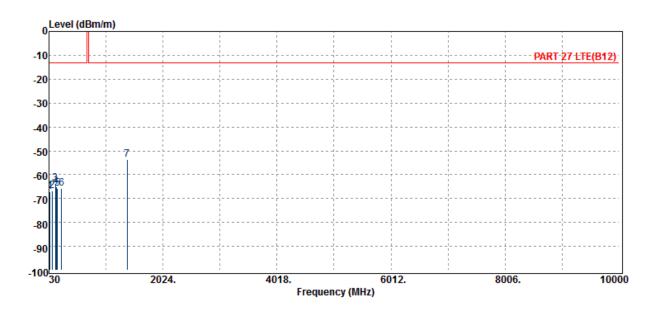
EUT Pol.

:LTE B12 :699.7 MHz :Tx CH LOW :E2 Plane

Temp./Humi. :22 deg_C / 62 RH

Engineer :Wei

:HORIZONTAL Measurement Antenna Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		_
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
47.46	-67.01	-54.64	-11.65	-0.72	-13.00	-54.01
86.26	-66.65	-64.46	-1.20	-0.99	-13.00	-53.65
138.64	-63.82	-60.31	-2.26	-1.25	-13.00	-50.82
154.16	-65.05	-62.19	-1.57	-1.30	-13.00	-52.05
178.41	-65.85	-65.21	0.73	-1.37	-13.00	-52.85
248.25	-65.70	-67.53	3.52	-1.69	-13.00	-52.70
1399.40	-53.76	-57.97	8.19	-3.98	-13.00	-40.76

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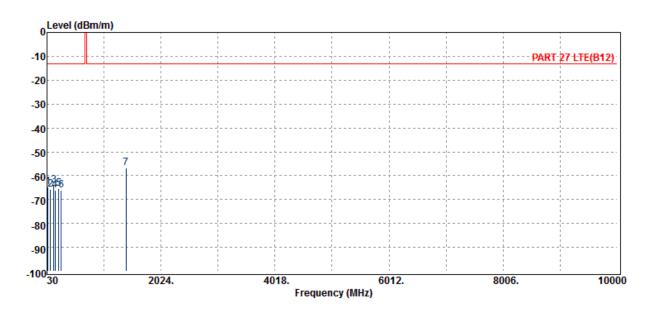
Operation Band :LTE B12 Fundamental Frequency :707.5 MHz

Operation Mode :Tx CH MID EUT Pol. :E2 Plane

Temp./Humi. :22 deg_C / 62 RH

Engineer :Wei

:VERTICAL Measurement Antenna Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
46.49	-64.55	-52.03	-11.81	-0.71	-13.00	-51.55
91.11	-65.72	-64.09	-0.62	-1.01	-13.00	-52.72
149.31	-63.91	-60.78	-1.84	-1.29	-13.00	-50.91
173.56	-66.01	-64.62	-0.04	-1.35	-13.00	-53.01
235.64	-65.28	-67.03	3.40	-1.65	-13.00	-52.28
279.29	-65.96	-67.63	3.42	-1.74	-13.00	-52.96
1415.00	-56.80	-61.05	8.25	-4.01	-13.00	-43.80

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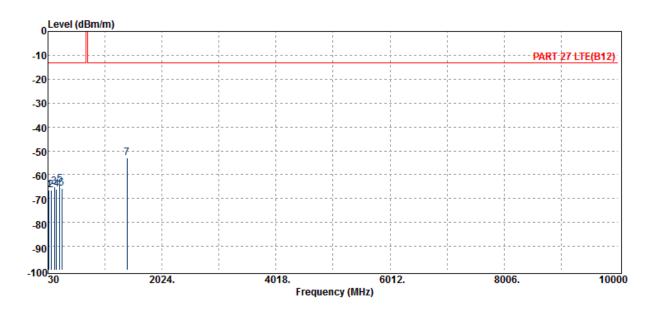
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Operation Band :LTE B12 Fundamental Frequency :707.5 MHz **Operation Mode** :Tx CH MID EUT Pol. :E2 Plane

Temp./Humi. :22 deg_C / 62 RH

Engineer :Wei

:HORIZONTAL Measurement Antenna Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
•		Output Level	Gain	Loss		
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
47.46	-66.48	-54.11	-11.65	-0.72	-13.00	-53.48
85.29	-66.45	-64.08	-1.37	-0.99	-13.00	-53.45
138.64	-64.89	-61.38	-2.26	-1.25	-13.00	-51.89
175.50	-66.14	-65.05	0.27	-1.36	-13.00	-53.14
236.61	-64.07	-65.84	3.42	-1.65	-13.00	-51.07
272.50	-65.61	-67.36	3.48	-1.73	-13.00	-52.61
1415.00	-52.95	-57.20	8.25	-4.01	-13.00	-39.95

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Operation Band Fundamental Frequency **Operation Mode**

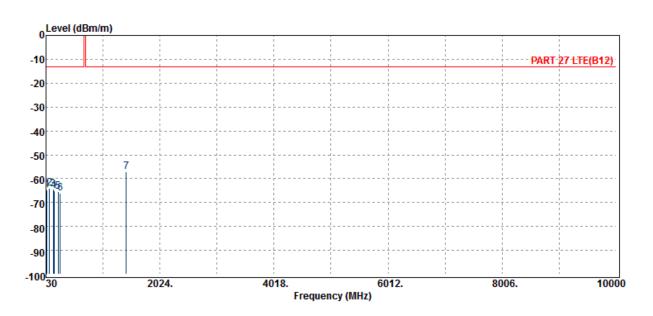
EUT Pol.

:LTE B12 :715.3 MHz :Tx CH HIGH :E2 Plane

Temp./Humi. :22 deg_C / 62 RH

Engineer :Wei

:VERTICAL Measurement Antenna Pol.



Freq.	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
46.49	-64.56	-52.04	-11.81	-0.71	-13.00	-51.56
91.11	-64.04	-62.40	-0.62	-1.01	-13.00	-51.04
153.19	-64.53	-61.61	-1.62	-1.30	-13.00	-51.53
167.74	-65.20	-63.12	-0.76	-1.32	-13.00	-52.20
245.34	-65.26	-67.08	3.51	-1.69	-13.00	-52.26
280.26	-66.02	-67.69	3.42	-1.75	-13.00	-53.02
1430.60	-57.08	-61.37	8.32	-4.03	-13.00	-44.08

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Operation Band Fundamental Frequency

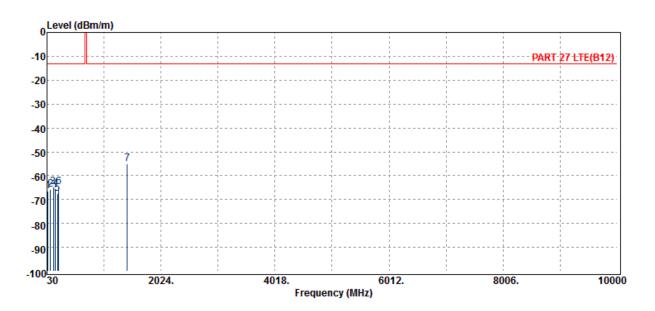
Operation Mode EUT Pol.

:LTE B12 :715.3 MHz :Tx CH HIGH :E2 Plane

Temp./Humi. :22 deg_C / 62 RH

Engineer :Wei

:HORIZONTAL Measurement Antenna Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
•		Output Level	Gain	Loss		
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
47.46	-66.44	-54.07	-11.65	-0.72	-13.00	-53.44
88.20	-65.75	-63.90	-0.85	-1.00	-13.00	-52.75
138.64	-64.79	-61.28	-2.26	-1.25	-13.00	-51.79
178.41	-65.56	-64.92	0.73	-1.37	-13.00	-52.56
212.36	-67.42	-69.50	3.62	-1.54	-13.00	-54.42
236.61	-64.57	-66.33	3.42	-1.65	-13.00	-51.57
1430.60	-55.12	-59.41	8.32	-4.03	-13.00	-42.12

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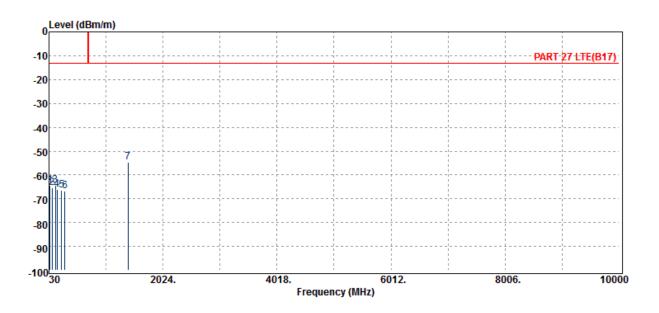
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Radiated Spurious Emission Measurement Result: LTE-Band 17 (The Worst Case)

Temp./Humi. **Operation Band** :LTE B17 :22 deg_C / 62 RH

Fundamental Frequency :706.5 MHz Engineer :Wei

Operation Mode :Tx CH LOW EUT Pol. :E2 Plane :VERTICAL Measurement Antenna Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
46.49	-64.24	-51.72	-11.81	-0.71	-13.00	-51.24
83.35	-65.40	-62.70	-1.73	-0.98	-13.00	-52.40
144.46	-64.42	-61.06	-2.08	-1.28	-13.00	-51.42
173.56	-66.17	-64.78	-0.04	-1.35	-13.00	-53.17
248.25	-66.41	-68.24	3.52	-1.69	-13.00	-53.41
308.39	-66.62	-68.42	3.66	-1.85	-13.00	-53.62
1413.00	-54.55	-58.80	8.25	-4.00	-13.00	-41.55

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Operation Band Fundamental Frequency **Operation Mode**

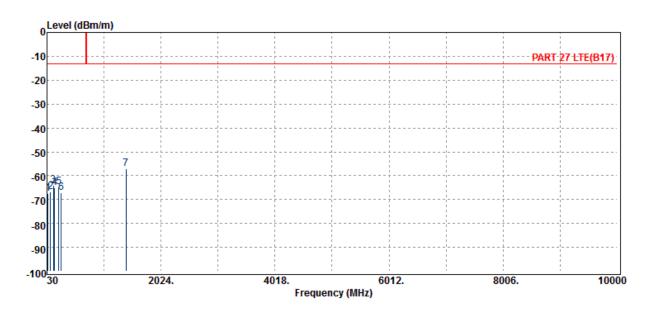
EUT Pol.

:LTE B17 :706.5 MHz :Tx CH LOW :E2 Plane

Temp./Humi. :22 deg_C / 62 RH

Engineer :Wei

:HORIZONTAL Measurement Antenna Pol.



Freq.	ERP/EIRP	SG Output Lovel	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
47.46	-67.40	-55.03	-11.65	-0.72	-13.00	-54.40
88.20	-66.86	-65.01	-0.85	-1.00	-13.00	-53.86
139.61	-63.92	-60.37	-2.29	-1.26	-13.00	-50.92
166.77	-64.93	-62.80	-0.82	-1.32	-13.00	-51.93
238.55	-64.84	-66.63	3.45	-1.66	-13.00	-51.84
282.20	-67.12	-68.78	3.42	-1.75	-13.00	-54.12
1413.00	-57.21	-61.46	8.25	-4.00	-13.00	-44.21

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:22 deg_C / 62 RH

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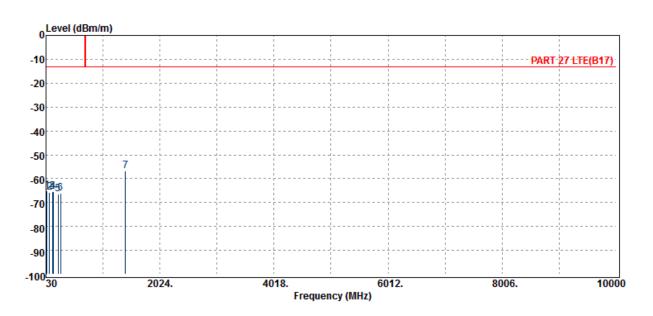
:Wei

Operation Band :LTE B17 Fundamental Frequency :710.0 MHz **Operation Mode** :Tx CH MID

Engineer

Temp./Humi.

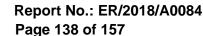
EUT Pol. :E2 Plane :VERTICAL Measurement Antenna Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		_
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
47.46	-64.95	-52.58	-11.65	-0.72	-13.00	-51.95
91.11	-65.61	-63.97	-0.62	-1.01	-13.00	-52.61
140.58	-65.56	-62.02	-2.27	-1.26	-13.00	-52.56
158.04	-65.28	-62.63	-1.35	-1.30	-13.00	-52.28
245.34	-66.53	-68.34	3.51	-1.69	-13.00	-53.53
285.11	-66.07	-67.72	3.42	-1.76	-13.00	-53.07
1420.00	-56.82	-61.08	8.28	-4.01	-13.00	-43.82

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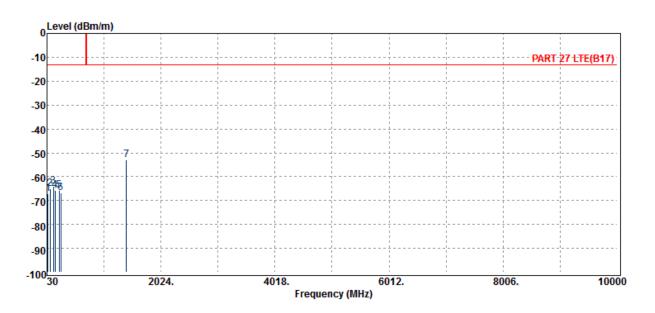
Operation Band :LTE B17 Fundamental Frequency :710.0 MHz

Operation Mode :Tx CH MID EUT Pol. :E2 Plane

Temp./Humi. :22 deg_C / 62 RH

Engineer :Wei

:HORIZONTAL Measurement Antenna Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		_
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
47.46	-67.23	-54.86	-11.65	-0.72	-13.00	-54.23
86.26	-65.06	-62.87	-1.20	-0.99	-13.00	-52.06
139.61	-64.15	-60.60	-2.29	-1.26	-13.00	-51.15
173.56	-65.64	-64.25	-0.04	-1.35	-13.00	-52.64
240.49	-65.60	-67.41	3.48	-1.67	-13.00	-52.60
270.56	-66.67	-68.45	3.50	-1.72	-13.00	-53.67
1420.00	-53.11	-57.37	8.28	-4.01	-13.00	-40.11

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Operation Band Fundamental Frequency **Operation Mode**

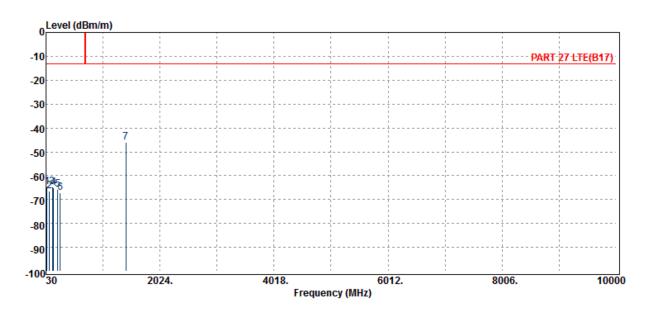
EUT Pol.

:LTE B17 :713.5 MHz :Tx CH HIGH :E2 Plane

Temp./Humi. :22 deg_C / 62 RH

:Wei Engineer

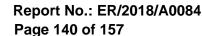
:VERTICAL Measurement Antenna Pol.



Freq.	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
	<u> </u>	42	424,421	42	42	<u> </u>
46.49	-64.59	-52.07	-11.81	-0.71	-13.00	-51.59
93.05	-66.60	-64.82	-0.76	-1.02	-13.00	-53.60
139.61	-64.61	-61.06	-2.29	-1.26	-13.00	-51.61
165.80	-65.21	-63.03	-0.88	-1.31	-13.00	-52.21
233.70	-65.78	-67.51	3.37	-1.64	-13.00	-52.78
279.29	-67.15	-68.83	3.42	-1.74	-13.00	-54.15
1427.00	-45.87	-50.15	8.30	-4.03	-13.00	-32.87

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Operation Band Fundamental Frequency

Operation Mode EUT Pol.

:LTE B17 :713.5 MHz :Tx CH HIGH

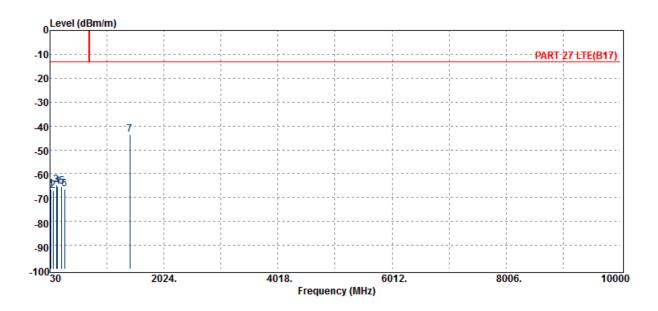
:E2 Plane

Temp./Humi.

:22 deg_C / 62 RH

:Wei Engineer

:HORIZONTAL Measurement Antenna Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
•		Output Level	Gain	Loss		
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
47.46	-66.54	-54.17	-11.65	-0.72	-13.00	-53.54
86.26	-67.03	-64.84	-1.20	-0.99	-13.00	-54.03
139.61	-64.84	-61.29	-2.29	-1.26	-13.00	-51.84
162.89	-65.23	-62.87	-1.06	-1.31	-13.00	-52.23
235.64	-65.36	-67.12	3.40	-1.65	-13.00	-52.36
285.11	-66.55	-68.21	3.42	-1.76	-13.00	-53.55
1427.00	-43.43	-47.70	8.30	-4.03	-13.00	-30.43

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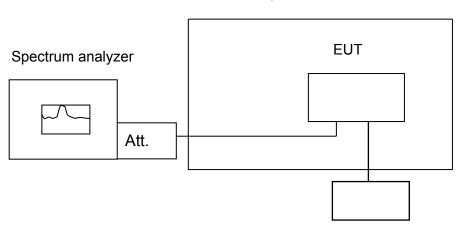
FREQUENCY STABILITY MEASUREMENT

11.1. Standard Applicable

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.







Variable DC Power Supply

Note: Measurement setup for testing on Antenna connector

11.3. Measurement Procedure

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

Set chamber temperature to 25°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint as declared by the manufacturer, record the maximum frequency change.

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11.4. Measurement Equipment Used

- modean amont Equipment Code							
EQUIPMENT TYPE	MFR	MODEL NUM- BER	SERIAL NUM- BER	LAST CAL.	CAL DUE.		
EXA Spectrum Analyzer	Agilent	N9010A	MY57120290	2018/02/14	2019/02/13		
Radio Communi- cation Analyer	Anritsu	MT8820C	6200995019	2018/04/05	2019/04/04		
DC Power Supply	Anritsu	E3640A	MY40000811	2017/12/18	2018/12/17		
Attenuator	Mini-Circuit	BW-S10W2+	2	2018/01/02	2019/01/01		
DC Block	Mini-Circuits	BLK-18-S+	1	2018/01/02	2019/01/01		
Splitter	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-018	2018/01/02	2019/01/01		
Coaxial Cables	N/A	WK CE Cable	N/A	2018/01/02	2019/01/01		

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11.5. Measurement Result

FREQUENCY ERROR vs. VOLTAGE

	REGULTOT ENTROIT FOR TOT TOTAL						
Ret	Reference Frequency: GPRS 850 Mid Channel 836.6 MHz						
		Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency					
	Temperature		Delta (Hz)	Limit (Hz)			
Vdc	(°C)	(MHz)	, ,	, ,			
4.43	20	836.59994	-60.00000008	2091			
3.85	20	836.60009	90	2091			
3.27	20	836.59998	-20.00000006	2091			
3 (End point)	20	836.59991	-90	2091			

FREQUENCY ERROR vs. TEMPERATURE

Re	Reference Frequency: GPRS 850 Mid Channel 836.6 MHz							
		Limit: +/- 2.5 ppm						
Power Supply	Environment	Frequency						
\	Temperature	/N // I _ \	Delta (Hz)	Limit (Hz)				
Vdc	(°C)	(MHz)		, ,				
3.85	50	836.60047	470	2091				
3.85	40	836.60034	339.9999999	2091				
3.85	30	836.60044	440	2091				
3.85	20	836.60009	90	2091				
3.85	10	836.60002	19.99999995	2091				
3.85	0	836.60001	9.99999975	2091				
3.85	-10	836.60006	59.99999996	2091				
3.85	-20	836.60004	40.0000001	2091				
3.85	-30	836.60035	350	2091				

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FREQUENCY ERROR vs. VOLTAGE

Ref	Reference Frequency: GPRS 1900 Mid Channel 1880 MHz					
		Limit: +/- 2.5 ppm	1			
Power Supply	Environment	Frequency				
\/da	Temperature	(8411-)	Delta (Hz)	Limit (Hz)		
Vdc	(°C)	(MHz)				
4.43	20	1880.00006	60.00000008	4700		
3.85	20	1880.00003	29.99999992	4700		
3.27	20	1880.0001	99.9999997	4700		
3 (End point)	20	1879.99997	-29.99999992	4700		

FREQUENCY ERROR vs. TEMPERATURE

R	Reference Frequency: GPRS 1900 Mid Channel 1880 MHz						
	L	_imit: +/- 2.5 ppm = ⊢	lz				
Power Supply	Environment	Frequency					
Vdc	Temperature (°C)	(MHz)	Delta (Hz)	Limit (Hz)			
3.85	50	1880.00002	19.99999995	4700			
3.85	40	1879.99996	-39.9999999	4700			
3.85	30	1880.00007	70.00000005	4700			
3.85	20	1880.00003	29.99999992	4700			
3.85	10	1879.99998	-19.99999995	4700			
3.85	0	1880.00006	60.00000008	4700			
3.85	-10	1880.00001	9.999999975	4700			
3.85	-20	1879.99999	-9.99999975	4700			
3.85	-30	1880.00009	90	4700			

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: WCDMA V Mid Channel 836.6 MHz					
		Limit: +/- 2.5 ppm			
Power Supply	Environment	Frequency			
\/do	Temperature		Delta (Hz)	Limit (Hz)	
Vdc	(°C)	(MHz)			
4.43	20	836.60025	249.9999999	2091	
3.85	20	836.60025	249.9999999	2091	
3.27	20	836.6001	99.9999997	2091	
3 (End point)	20	836.60017	170	2091	

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: WCDMA V Mid Channel 836.6 MHz								
	Limit: +/- 2.5 ppm							
Power Supply	Environment	Frequency						
Vdc	Temperature	(NALI→)	Delta (Hz)	Limit (Hz)				
Vac	(°C)	(MHz)						
3.85	50	836.60033	330	2091				
3.85	40	836.60003	29.99999992	2091				
3.85	30	836.60001	9.999999975	2091				
3.85	20	836.60025	249.9999999	2091				
3.85	10	836.60028	280	2091				
3.85	0	836.60048	479.9999999	2091				
3.85	-10	836.59995	-49.99999999	2091				
3.85	-20	836.60022	220	2091				
3.85	-30	836.60019	190	2091				

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Reference Freq.:	LTE B5 M Channel	id	836.5	MHz 10M QPSK CH 20525
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
	Freq. E	RROR vs. V	OLTAGE	
4.43	25	836.500009	8.9999998	2091
3.85	25	836.499995	-5	2091
3.27	25	836.500023	23.0000001	2091
3 (End Point)	25	836.500012	12	2091
	Freq.	ERROR vs.	Temp.	
3.85	-30	836.499995	-4.999999987	2091
3.85	-20	836.499996	-3.99999999	2091
3.85	-10	836.500009	8.99999977	2091
3.85	0	836.500008	7.99999998	2091
3.85	10	836.499993	-6.99999982	2091
3.85	20	836.500003	2.999999992	2091
3.85	30	836.499998	-1.999999995	2091
3.85	40	836.500001	0.999999997	2091
3.85	50	836.499993	-6.99999982	2091

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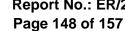
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LTE B12 M	lid	707.5	MHz 10M QPSK CH
Channel		707.0	23095
Temn (°C)	Frea (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
,	,	` ,	2.0 pp. (1.2)
Freq. E	RROR vs. V	OLTAGE	
25	707.499990	-9.99999975	1769
25	707.500005	4.999999987	1769
25	707.500008	7.99999998	1769
25	707 400001	9 000000077	1769
25	707.499991	-0.999999977	1709
Freq.	ERROR vs.	Temp.	
-30	707.500004	3.99999999	1769
-20	707.499997	-2.999999992	1769
-10	707.499992	-7.99999998	1769
0	707.500007	6.99999982	1769
10	707.500002	1.999999995	1769
20	707.499991	-8.999999977	1769
30	707.499994	-5.999999985	1769
40	707.500005	4.999999987	1769
50	707.499992	-7.99999998	1769
	Channel Temp. (°C) Freq. E 25 25 25 25 Freq. -30 -20 -10 0 10 20 30 40	Temp. (°C) Freq. (MHz) Freq. (MHz) 25 707.499990 25 707.500005 25 707.500008 25 707.499991 Freq. ERROR vs. -30 707.500004 -20 707.499997 -10 707.500007 10 707.500002 20 707.499994 40 707.500005	Channel 707.5 Temp. (°C) Freq. (MHz) Delta (Hz) Freq. ERROR vs. VOLTAGE 25 707.499990 -9.9999999975 25 707.500005 4.999999998 25 707.500008 7.999999998 25 707.499991 -8.999999997 -30 707.500004 3.999999999 -20 707.499997 -2.9999999999 -10 707.500007 6.999999998 0 707.500002 1.9999999995 20 707.499991 -8.999999997 30 707.499994 -5.999999985 40 707.500005 4.9999999987



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Reference Freq.:	LTE B17 M Channel	id	710	MHz 10M QPSK CH 23790
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
	Freq. EF	RROR vs. VO	LTAGE	
4.43	25	710.000004	3.99999999	1775
3.85	25	709.999993	-7	1775
3.27	25	710.000009	8.9999998	1775
3 (End Point)	25	709.999998	-2	1775
	Freq.	ERROR vs. T	emp.	
3.85	-30	710.000001	1	1775
3.85	-20	710.000003	2.99999999	1775
3.85	-10	709.999995	-5	1775
3.85	0	709.999992	-8	1775
3.85	10	710.000009	8.9999998	1775
3.85	20	709.999992	-8	1775
3.85	30	710.000007	6.9999998	1775
3.85	40	710.000001	1	1775
3.85	50	710.000002	1.99999999	1775

Note: The battery is rated 3.85V dc.



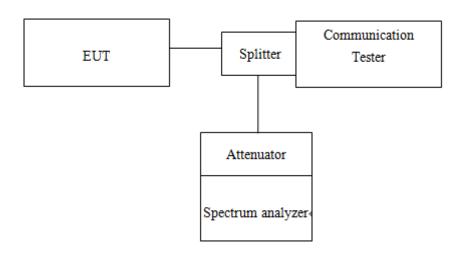
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12. **PEAK TO AVERAGE RATIO**

12.1. Standard Applicable

The peak-to-average ratio (PAR) of the transmission may not exceed 13dB.

12.2. Test SET-UP



12.3. Measurement Procedure

- 1. KDB 971168 D01 is employed as the following procedure is proper adjusted accordingly:
- 2. Set resolution/measurement bandwidth ≥ signal's occupied bandwidth; & internal =1ms
- 3. Set the number of counts to a value that stabilizes the measured CCDF curve.

12.4. Measurement Equipment Used

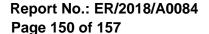
EQUIPMENT TYPE	MFR	MODEL NUM- BER	SERIAL NUM- BER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9010A	MY57120290	2018/02/14	2019/02/13
Radio Communica- tion Analyer	Anritsu	MT8815B	6200711454	2018/04/05	2019/04/04
DC Power Supply	Anritsu	E3640A	MY40000811	2017/12/18	2018/12/17
Attenuator	Mini-Circuit	BW-S10W2+	2	2018/01/02	2019/01/01
DC Block	Mini-Circuits	BLK-18-S+	1	2018/01/02	2019/01/01
Splitter	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-018	2018/01/02	2019/01/01
Coaxial Cables	N/A	WK CE Cable	N/A	2018/01/02	2019/01/01

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12.5. Measurement Result

Tabular Results:

Freq. (MHz)	СН	Peak-to-Average Ratio (dB)			
		GSM	GPRS		
		1900	1900		
1850.2	512	11.95	10.39		
1880	661	8.48	10.27		
1909.8	810	9.89	8.76		

LTE BAND 5									
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz					
Freq.	СН	PAPR (dB)		Freq.	СН	PAPR	(dB)		
(MHz)	CII	64QAM	Limit	(MHz)	CII	64QAM	Limit		
824.7	20407	6.73	13	825.5	20415	6.63	13		
836.5	20525	6.76	13	836.5	20525	6.60	13		
848.3	20643	6.67	13	847.5	20635	6.56	13		

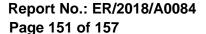
LTE BAND 5									
Channel bandwidth: 5MHz				Channel bandwidth: 5MHz Channel bandwidth: 10MHz					
Freq.	СН	PAPR (dB)		Freq.		PAPR	(dB)		
(MHz)	Сп	64QAM	Limit	(MHz)	СН	64QAM	Limit		
826.5	20425	6.05	13	829.0	20450	6.11	13		
836.5	20525	6.00	13	836.5	20525	6.11	13		
846.5	20625	5.98	13	844.0	20600	6.02	13		

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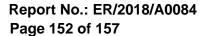
LTE BAND 12									
Chan	nel bandı	width: 1.4l	MHz	Char	nnel band	lwidth: 3N	lHz		
Freq.	СН	PAPR	PAPR (dB) Freq.		СН	PAPR	(dB)		
(MHz)	СП	64QAM	Limit	(MHz)	СН	64QAM	Limit		
699.7	23017	6.75	13	700.5	23025	6.64	13		
707.5	23095	6.85	13	707.5	23095	6.55	13		
715.3	23173	6.69	13	714.5	23165	6.67	13		

LTE BAND 12									
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz					
Freq.	СН	PAPR	(dB)	Freq.	Freq. CH PAPR		(dB)		
(MHz)	СП	64QAM	Limit	(MHz)	СН	64QAM	Limit		
701.5	23035	6.54	13	704.0	23060	6.63	13		
707.5	23095	6.48	13	707.5	23095	6.58	13		
713.5	23155	6.49	13	711.0	23130	6.52	13		

	LTE BAND 17									
Channel bandwidth: 1.4MHz				Char	nnel band	lwidth: 3N	lHz			
Freq.	СН	PAPR (dB)			PAPR (dB) Freq.	СН	PAPR	(dB)		
(MHz)	СП	64QAM	Limit	(MHz)	СН	64QAM	Limit			
706.5	23755	6.52	13	709.0	23780	6.61	13			
710.0	23790	6.51	13	710.0	23790	6.68	13			
713.5	23825	6.53	13	711.0	23800	6.61	13			

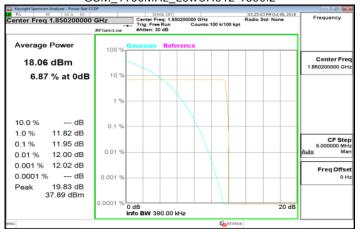
Measurement Results:

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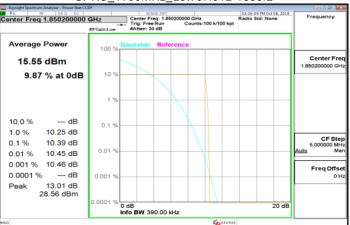




GSM_1900MHz_LowCH512-1850.2



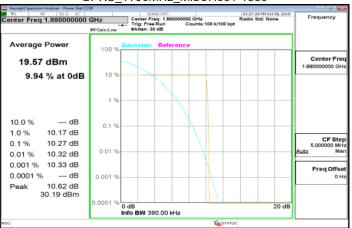
GPRS_1900MHz_LowCH512-1850.2



GSM 1900MHz MidCH661-1880



GPRS 1900MHz MidCH661-1880



GSM_1900MHz_HighCH810-1909.8



GPRS_1900MHz_HighCH810-1909.8

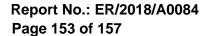


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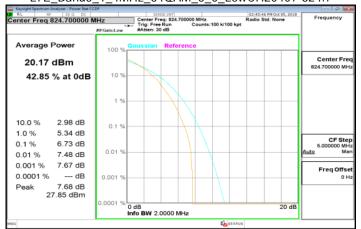
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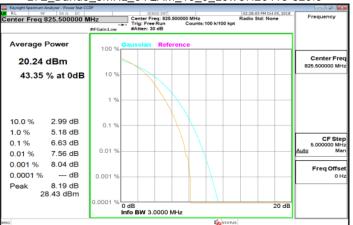




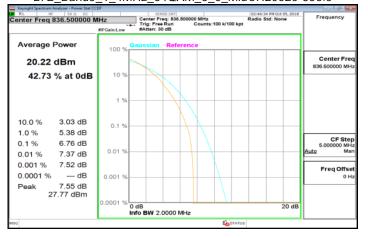
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LTE_Band5_3MHz_64QAM_15_0_LowCH20415-825.5



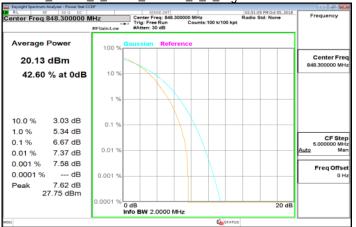
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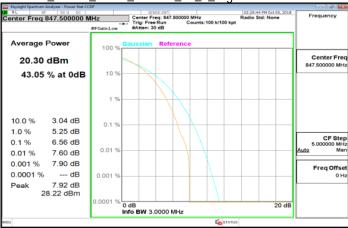
LTE Band5 3MHz 64QAM 15 0 MidCH20525-836.5



LTE_Band5_1_4MHz_64QAM_6_0_HighCH20643-848.3



LTE_Band5_3MHz_64QAM_15_0_HighCH20635-847.5



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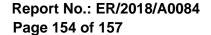
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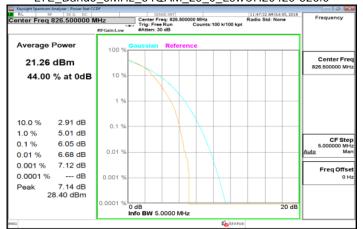
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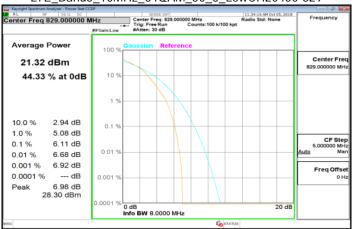




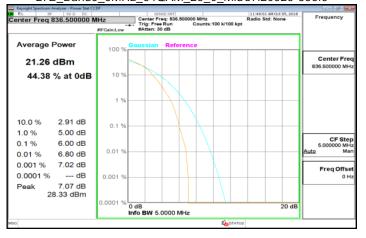
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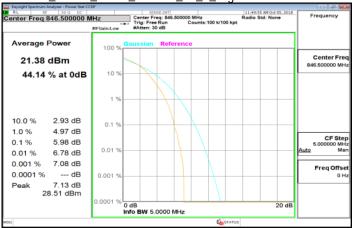
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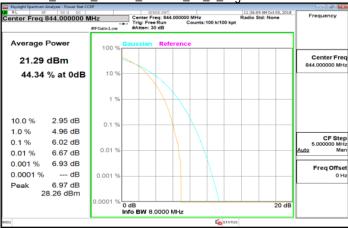
LTE Band5 10MHz 64QAM 50 0 MidCH20525-836.5



LTE_Band5_5MHz_64QAM_25_0_HighCH20625-846.5



LTE_Band5_10MHz_64QAM_50_0_HighCH20600-844



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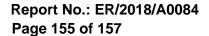
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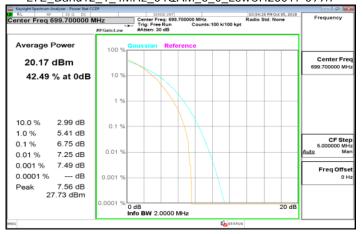
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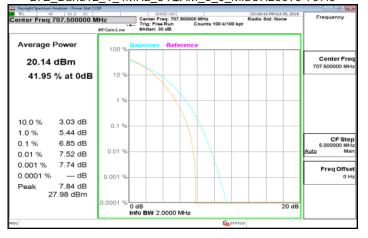
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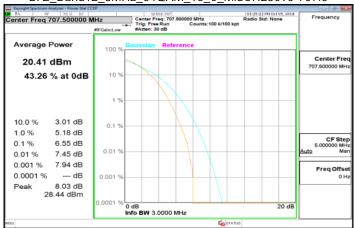
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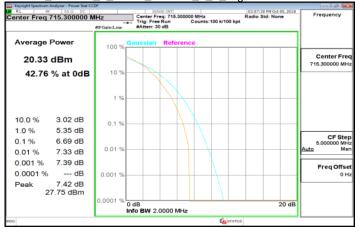
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LTE_Band12_3MHz_64QAM_15_0_MidCH23095-707.5



LTE_Band12_1_4MHz_64QAM_6_0_HighCH23173-715.3



LTE_Band12_3MHz_64QAM_15_0_HighCH23165-714.5



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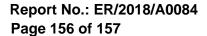
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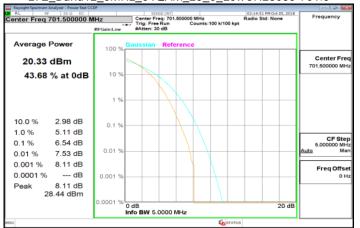
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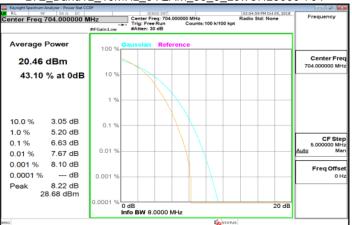




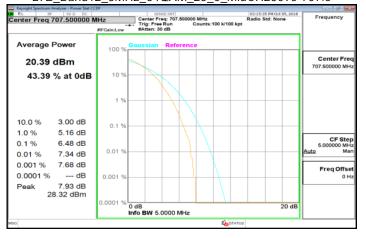
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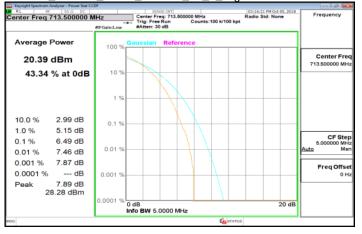
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LTE Band12 10MHz 64QAM 50 0 MidCH23095-707.5



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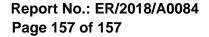
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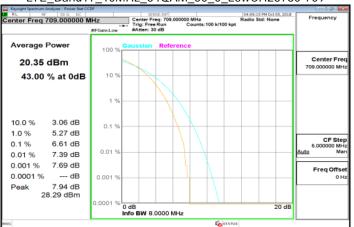




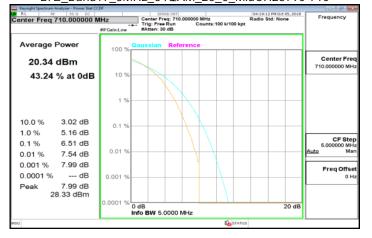
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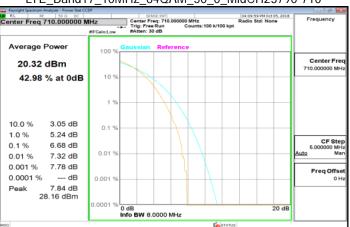
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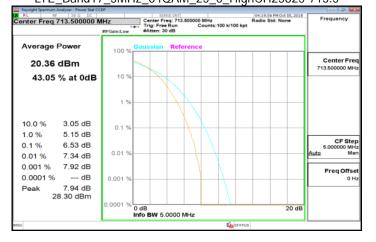
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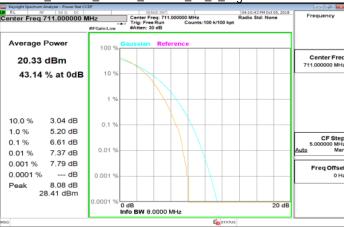
LTE Band17_10MHz_64QAM_50_0_MidCH23790-710



LTE_Band17_5MHz_64QAM_25_0_HighCH23825-713.5



LTE_Band17_10MHz_64QAM_50_0_HighCH23800-711



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