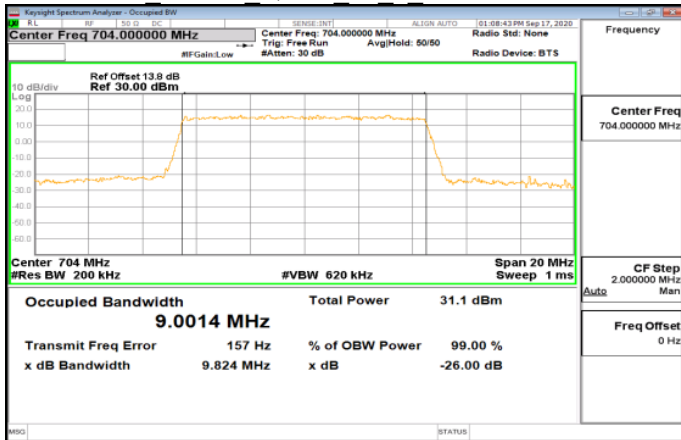
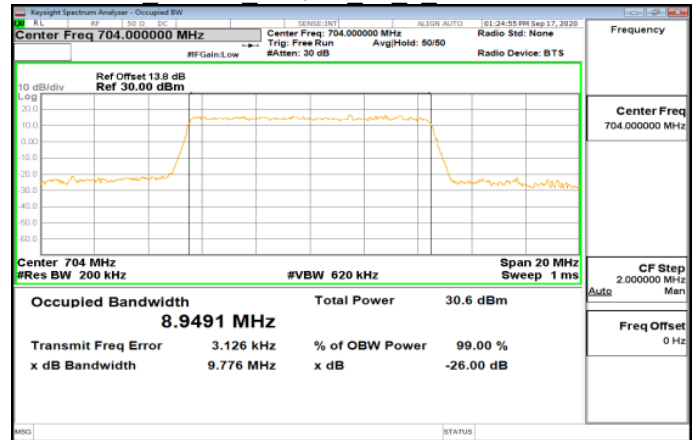


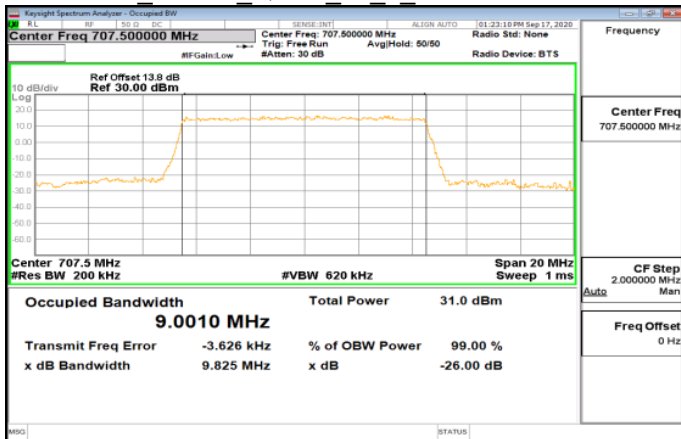
Band12 10MHz QPSK 50 0 LowCH23060-704



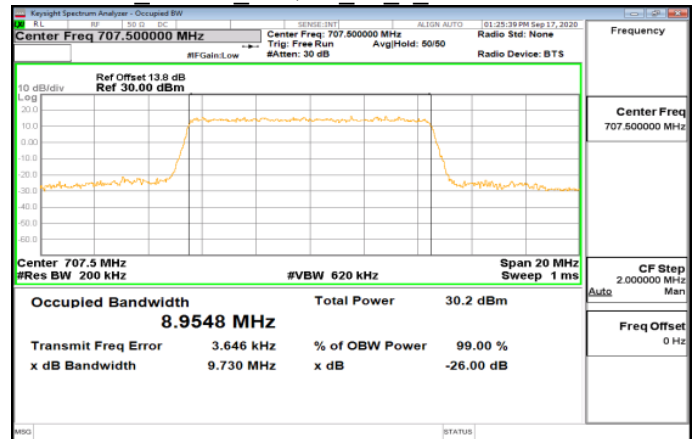
Band12 10MHz 16QAM 50 0 LowCH23060-704



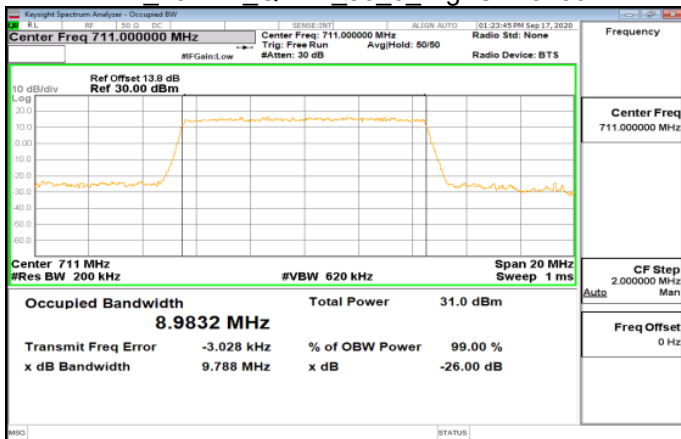
Band12 10MHz QPSK 50 0 MidCH23095-707.5



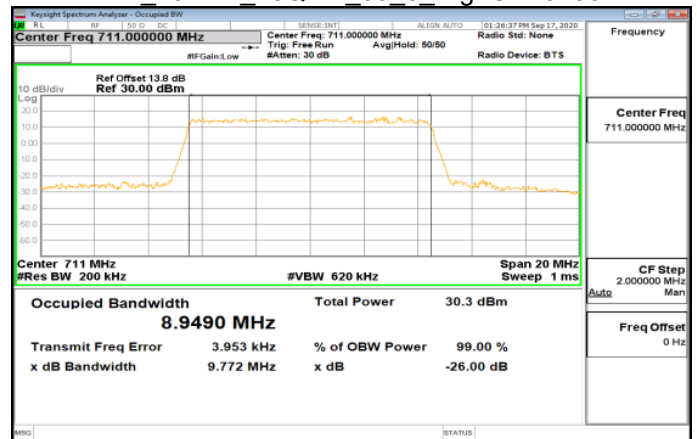
Band12 10MHz 16QAM 50 0 MidCH23095-707.5



Band12 10MHz QPSK 50 0 HighCH23130-711



Band12 10MHz 16QAM 50 0 HighCH23130-711



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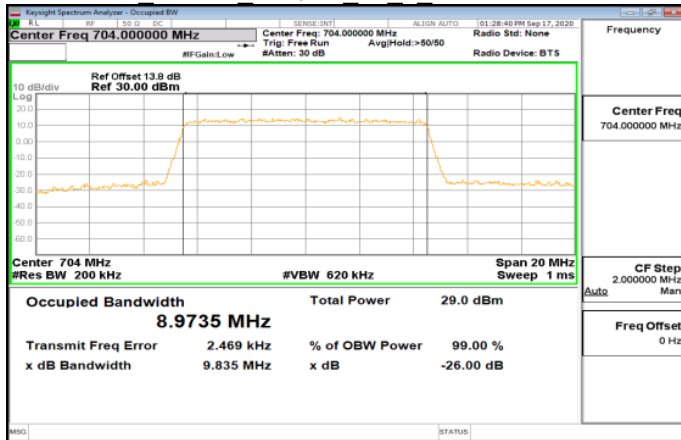
t (886-2) 2299-3279

f (886-2) 2298-0488

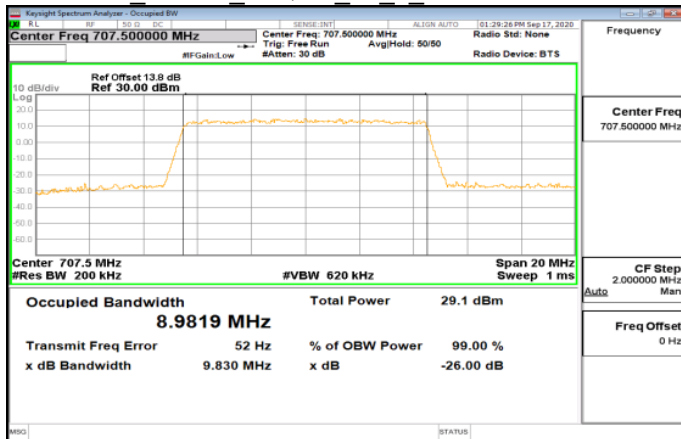
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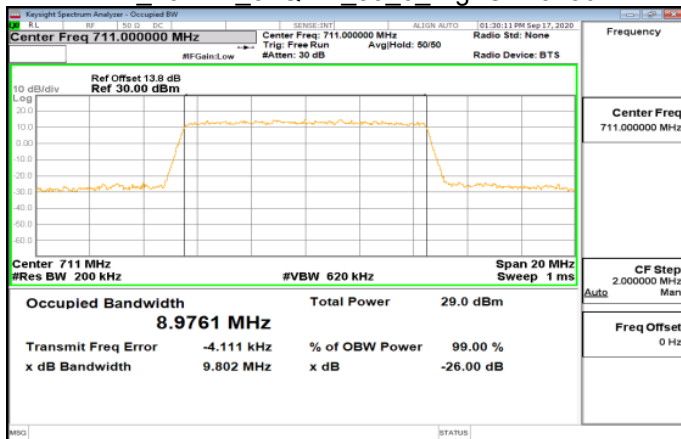
Band12 10MHz 64QAM 50 0 LowCH23060-704



Band12 10MHz 64QAM 50 0 MidCH23095-707.5



Band12 10MHz 64QAM 50 0 HighCH23130-711



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8 OUT OF BAND EMISSION AT ANTENNA TERMINALS

8.1 Standard Applicable

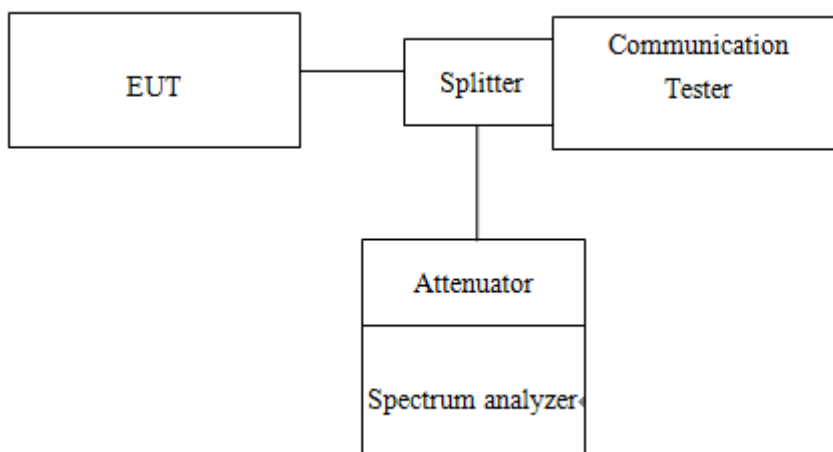
FCC §22.917(a), §24.238(a)

Out of band emissions. 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.

FCC §27.53(g)

Compliance for operations in the 600 MHz, 698-746 MHz, 746-758 MHz and the 776-788 MHz band 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.

8.2 Test SET-UP



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8.3 Measurement Procedure

8.3.1 Conducted Emission

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

1. To connect Antenna Port of EUT to Spectrum.
2. Set RBW = 1MHz & VBW = 1MHz on Spectrum.
3. Allow trace to fully stabilize
4. Repeat above procedures until all default test channel measured were complete.

8.3.2 Band Edge

1. To connect Antenna Port of EUT to Spectrum.
2. The band edge of low and high channels for the highest RF powers was measured. Setting RBW \geq 1% EBW.
3. Allow trace to fully stabilize
4. Repeat above procedures until all default test channel measured were complete.

8.4 Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	Apr. 21st, 2020	Apr. 20th, 2021
DC Power Supply	Agilent	E3640A	MY40000811	Dec. 23rd, 2019	Dec. 22nd, 2020
Temperature Chamber	TERCHY	MHG-120L F	911009	May 20th, 2020	May 19th, 2021
Radio Communication Analyser	Anritsu	MT8815B	6200711454	Apr. 1st, 2020	Mar. 31st, 2021
Attenuator	Mini-Circuit	BW-S10W2 +	2	Jan. 2nd, 2020	Jan. 1st, 2021
DC Block	Mini-Circuits	BLK-18-S+	1	Jan. 2nd, 2020	Jan. 1st, 2021
Splitter	RF-LAMBAD	RFLT2W1G 18G	11-JSPF412- 018	Jan. 2nd, 2020	Jan. 1st, 2021

8.5 Measurement Result:

Refer to next pages.

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GSM 850MHz LowCH128-824.2



GPRS 850MHz HighCH251-848.8



GSM 850MHz HighCH251-848.8



GSM 1900MHz LowCH512-1850.2



GPRS 850MHz LowCH128-824.2



GSM 1900MHz HighCH810-1909.8



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GPRS 1900MHz LowCH512-1850.2



WCDMA B5 HighCH4233-846.6



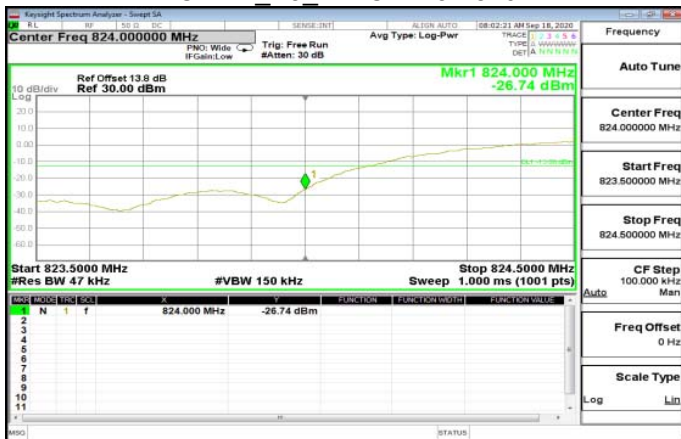
GPRS 1900MHz HighCH810-1909.8



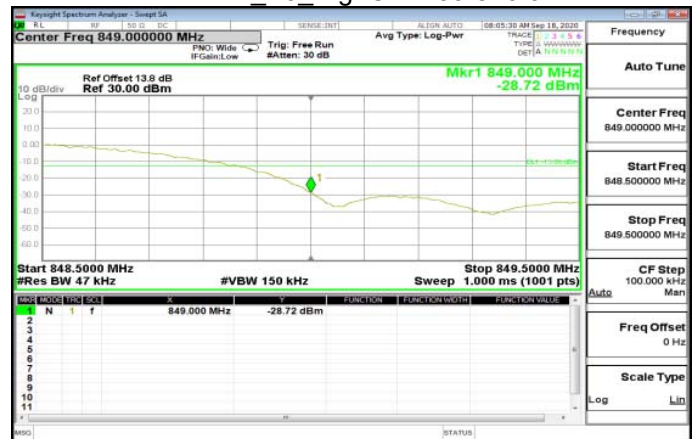
HSDPA B5 LowCH4132-826.4



WCDMA B5 LowCH4132-826.4



HSDPA B5 HighCH4233-846.6



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HSUPA B5 LowCH4132-826.4



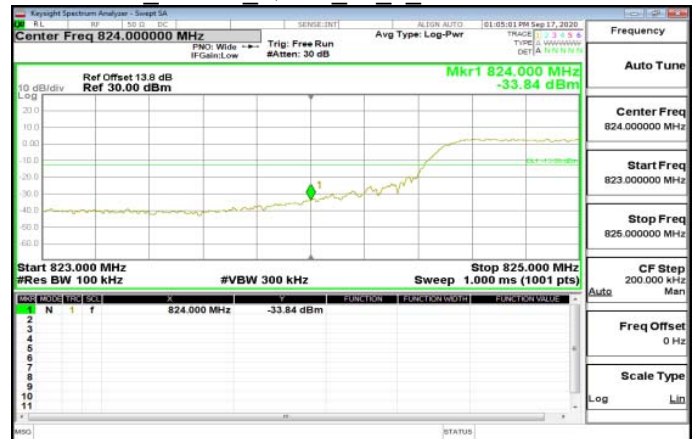
Band5 10MHz QPSK 1 49 HighCH20600-844



HSUPA B5 HighCH4233-846.6



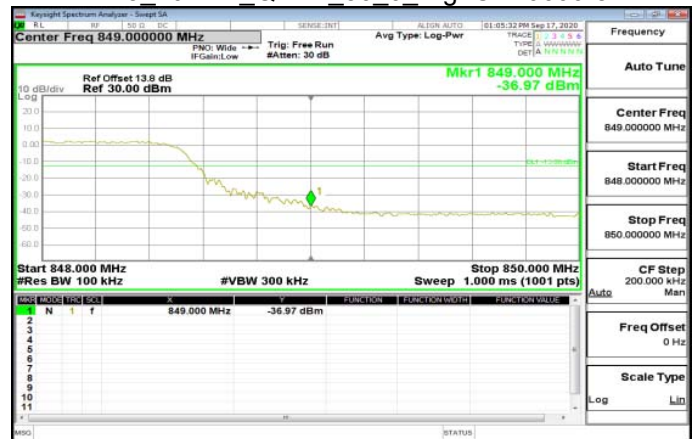
Band5 10MHz QPSK 50 0 LowCH20450-829



Band5 10MHz QPSK 1 0 LowCH20450-829



Band5 10MHz QPSK 50 0 HighCH20600-844



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Band12 10MHz QPSK 1 0 LowCH23060-704



Band12 10MHz QPSK 50 0 HighCH23130-711



Band12 10MHz QPSK 1 49 HighCH23130-711



Band12 10MHz QPSK 50 0 LowCH23060-704



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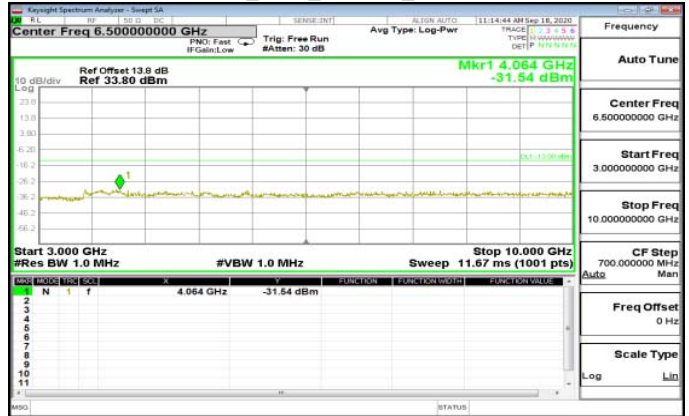
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Out of Band Emission

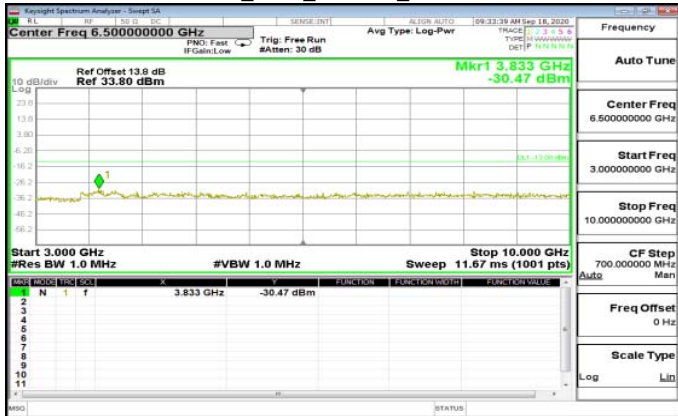
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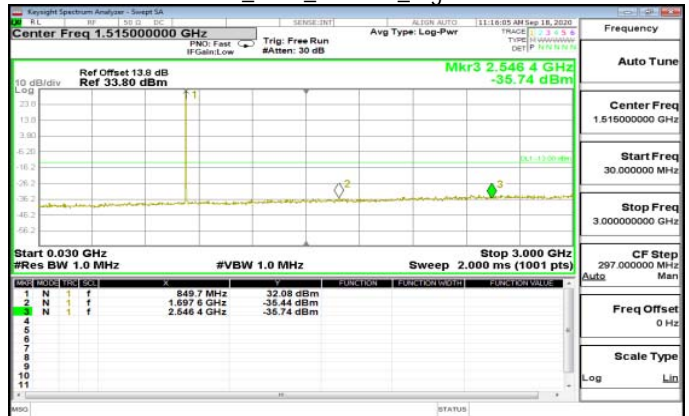
3GHz~10GHz_GSM_850MHz_MidCH190-836.6



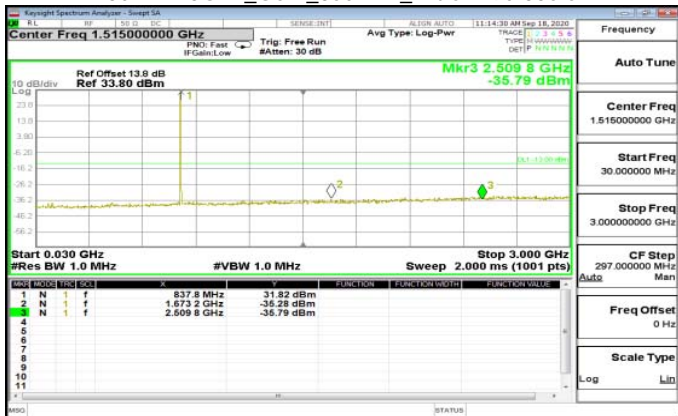
3GHz~10GHz_GSM_850MHz_LowCH128-824.2



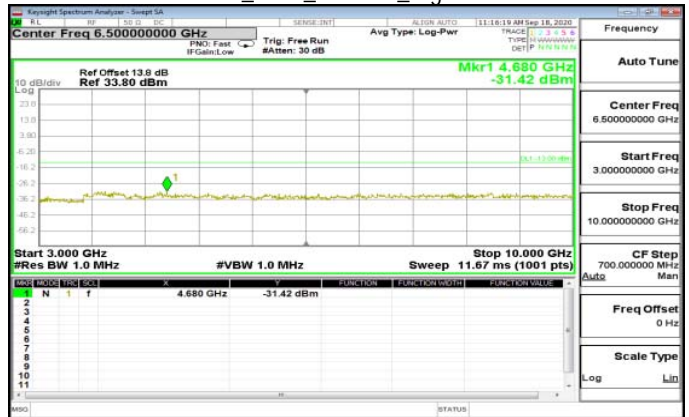
30MHz~3GHz_GSM_850MHz_HighCH251-848.8



30MHz~3GHz_GSM_850MHz_MidCH190-836.6



3GHz~10GHz_GSM_850MHz_HighCH251-848.8

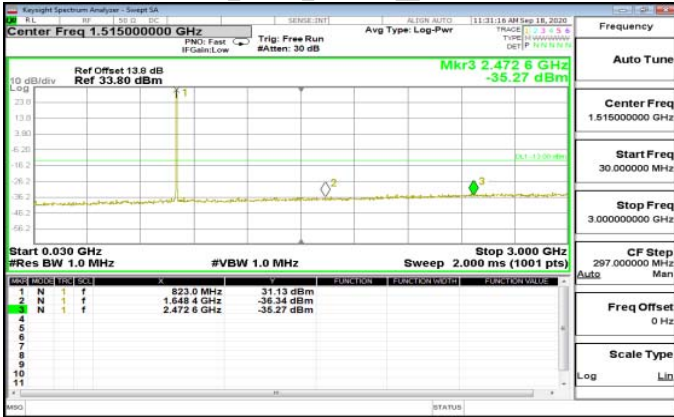


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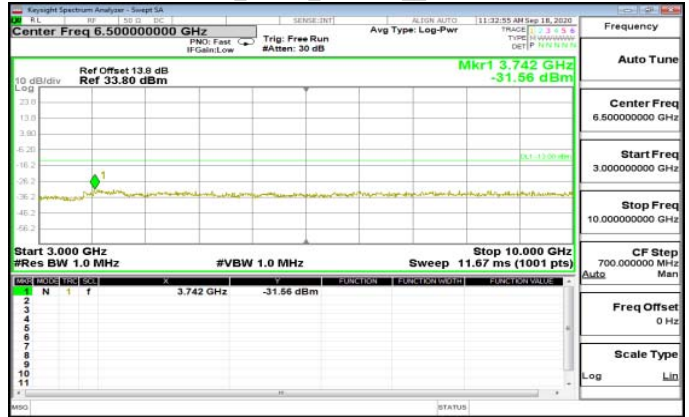
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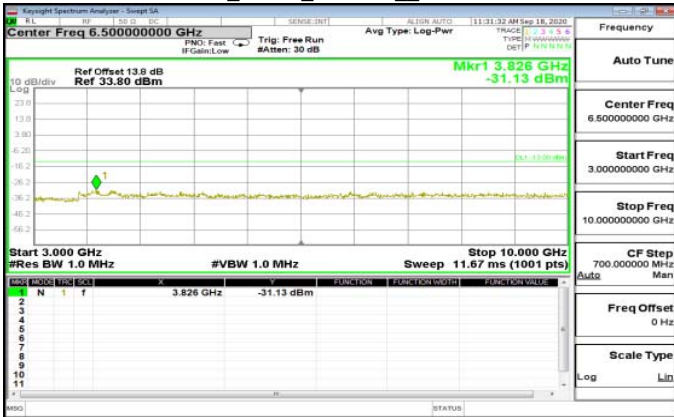
30MHz-3GHz_GPRS_850MHz_LowCH128-824.2



3GHz-10GHz_GPRS_850MHz_MidCH190-836.6



3GHz-10GHz_GPRS_850MHz_LowCH128-824.2



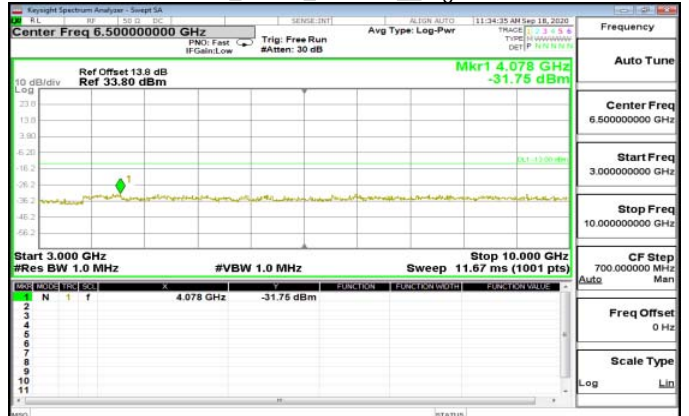
30MHz-3GHz_GPRS_850MHz_HighCH251-848.8



30MHz-3GHz_GPRS_850MHz_MidCH190-836.6



3GHz-10GHz_GPRS_850MHz_HighCH251-848.8



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30MHz~3GHz_GSM_1900MHz_LowCH512-1850.2



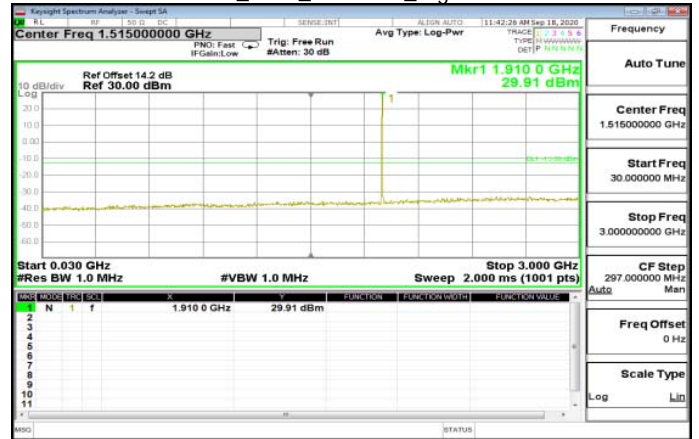
3GHz~10GHz_GSM_1900MHz_MidCH661-1880



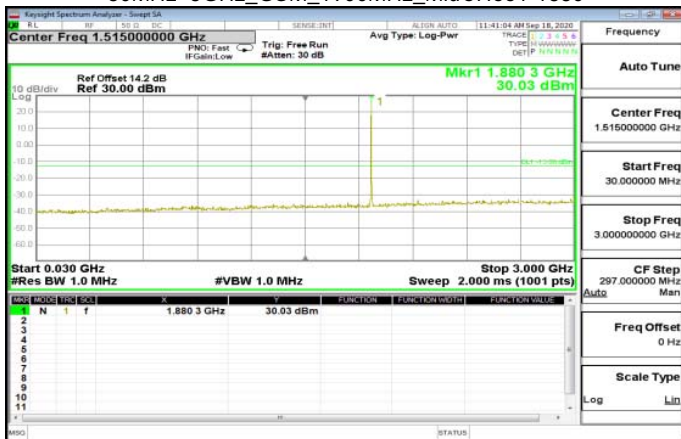
3GHz~10GHz_GSM_1900MHz_LowCH512-1850.2



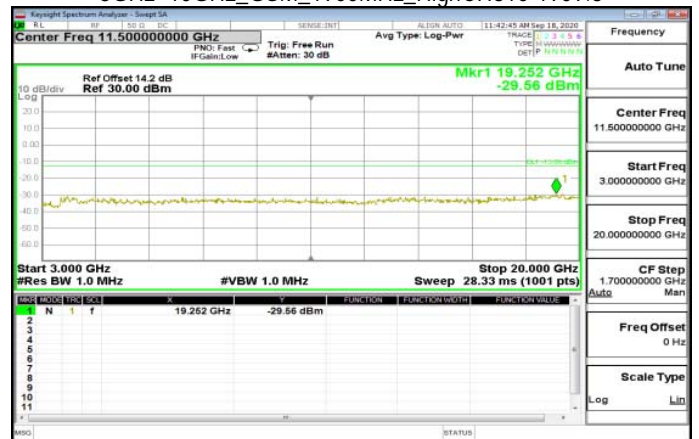
30MHz~3GHz_GSM_1900MHz_HighCH810-1909.8



30MHz~3GHz_GSM_1900MHz_MidCH661-1880



3GHz~10GHz_GSM_1900MHz_HighCH810-1909.8

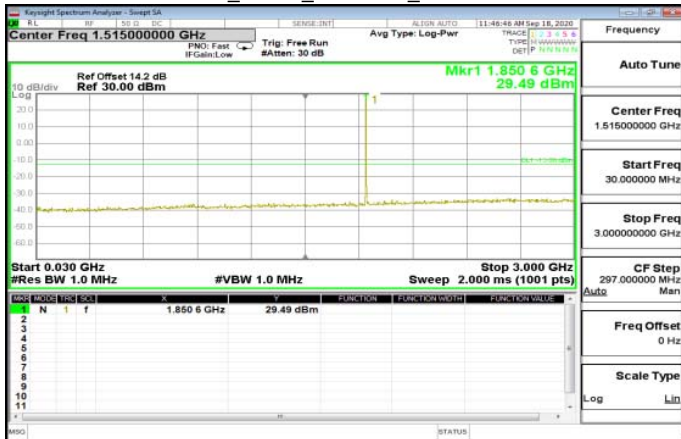


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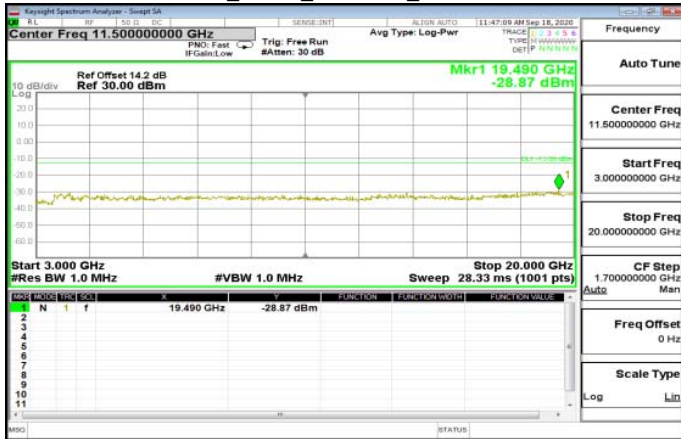
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3GHz~10GHz_GPRS_1900MHz_MidCH661-1880



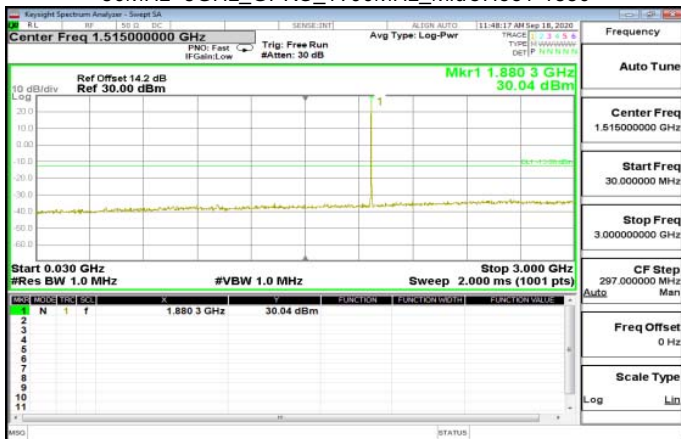
3GHz~10GHz_GPRS_1900MHz_LowCH512-1850.2



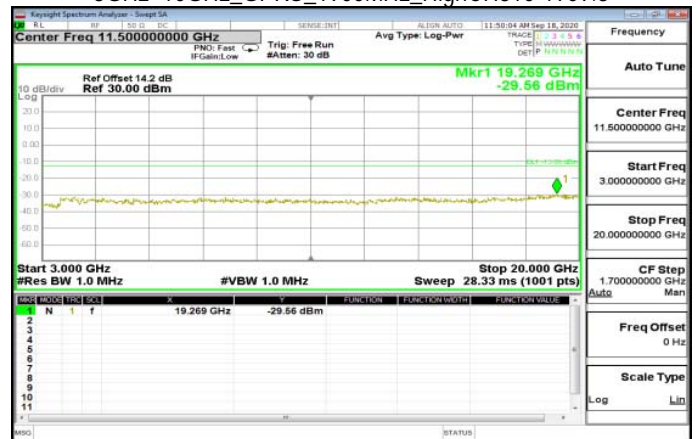
30MHz~3GHz_GPRS_1900MHz_HighCH810-1909.8



30MHz~3GHz_GPRS_1900MHz_MidCH661-1880



3GHz~10GHz_GPRS_1900MHz_HighCH810-1909.8



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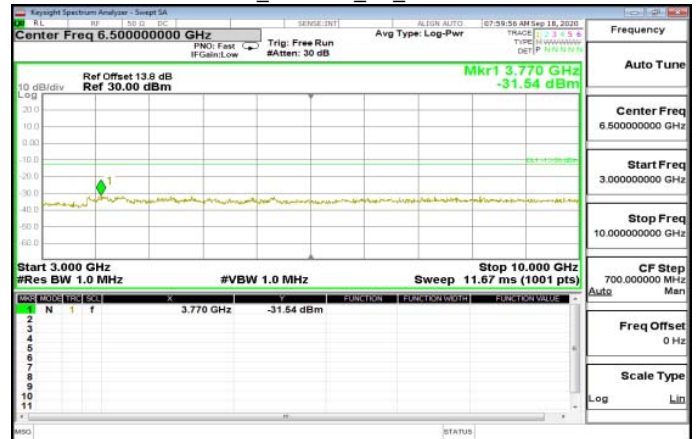
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30MHz~3GHz_WCDMA_B5_LowCH4132-826.4



3GHz~10GHz_WCDMA_B5_MidCH4183-836.6



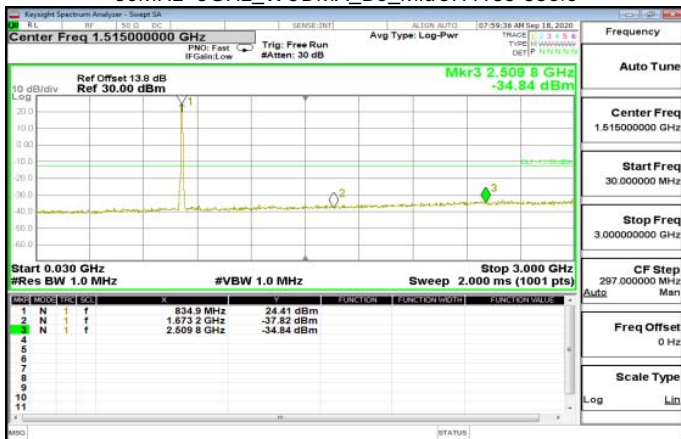
3GHz~10GHz_WCDMA_B5_LowCH4132-826.4



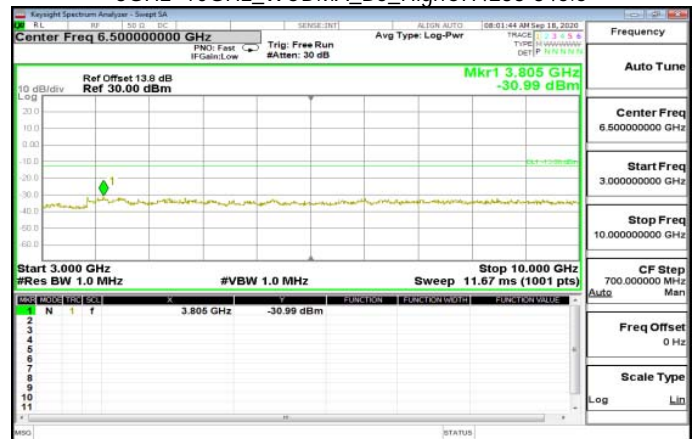
30MHz~3GHz_WCDMA_B5_HighCH4233-846.6



30MHz~3GHz_WCDMA_B5_MidCH4183-836.6



3GHz~10GHz_WCDMA_B5_HighCH4233-846.6



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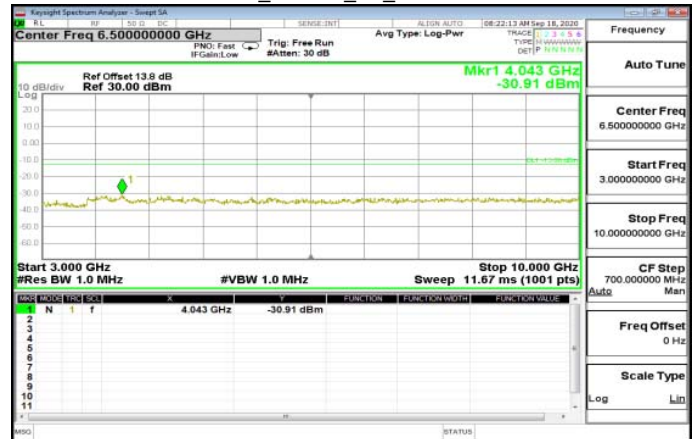
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30MHz~3GHz_HSDPA_B5_LowCH4132-826.4



3GHz~10GHz_HSDPA_B5_MidCH4183-836.6



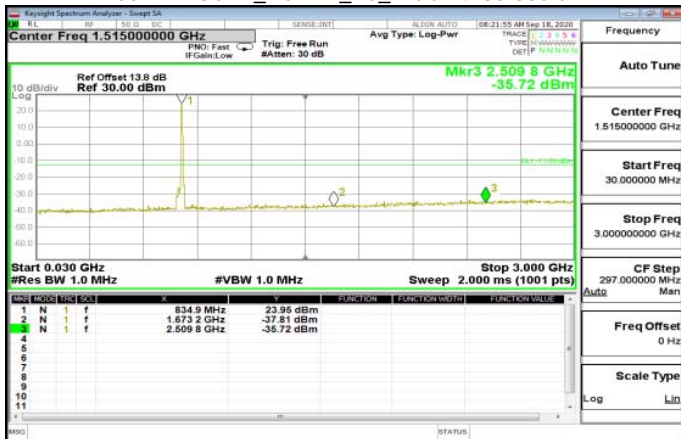
3GHz~10GHz_HSDPA_B5_LowCH4132-826.4



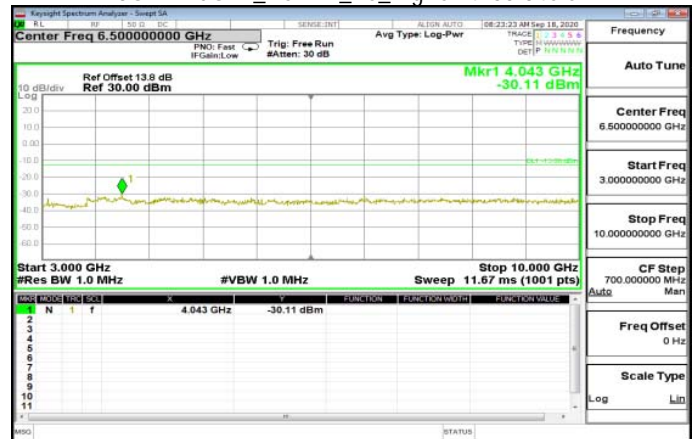
30MHz~3GHz_HSDPA_B5_HighCH4233-846.6



30MHz~3GHz_HSDPA_B5_MidCH4183-836.6



3GHz~10GHz_HSDPA_B5_HighCH4233-846.6



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30MHz-3GHz_HSUPA_B5_LowCH4132-826.4



3GHz-10GHz_HSUPA_B5_MidCH4183-836.6



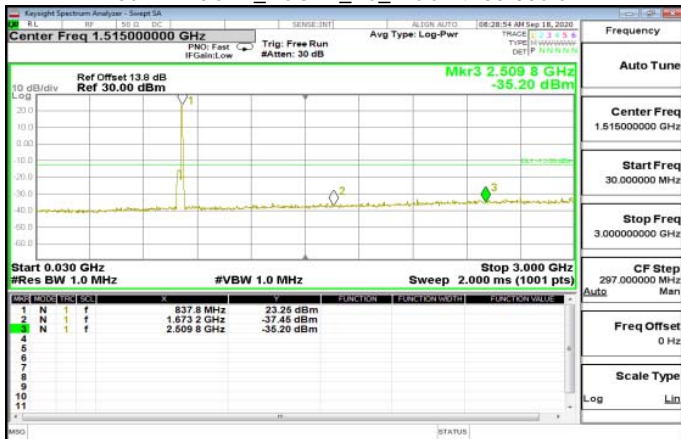
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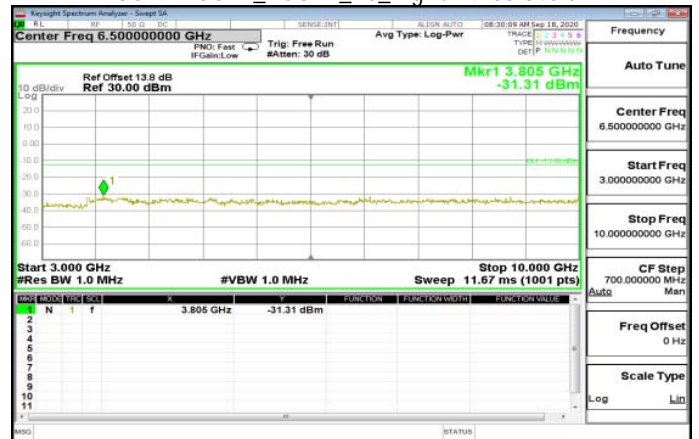
30MHz-3GHz_HSUPA_B5_HighCH4233-846.6



30MHz-3GHz_HSUPA_B5_MidCH4183-836.6



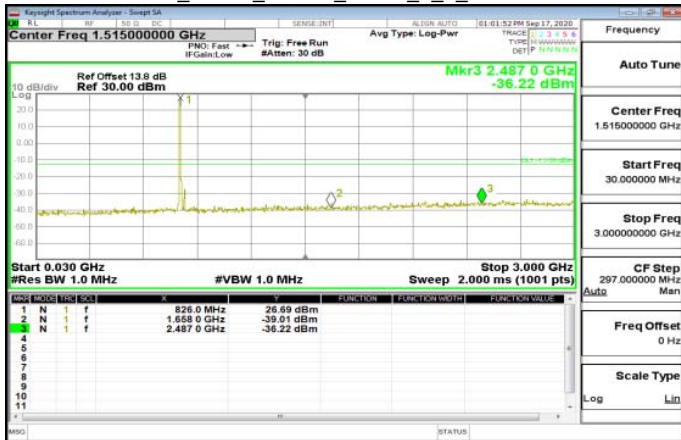
3GHz-10GHz_HSUPA_B5_HighCH4233-846.6



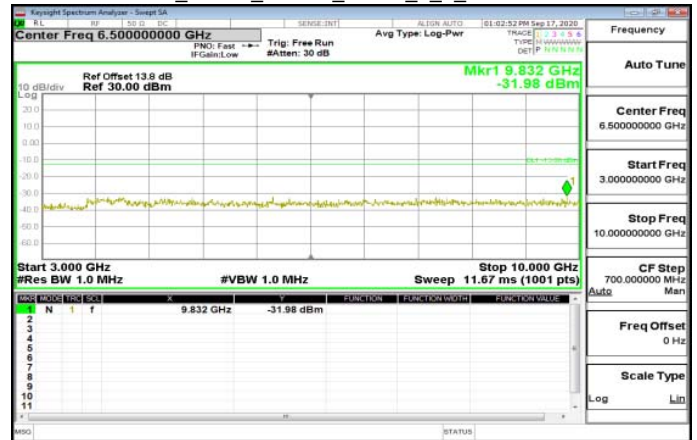
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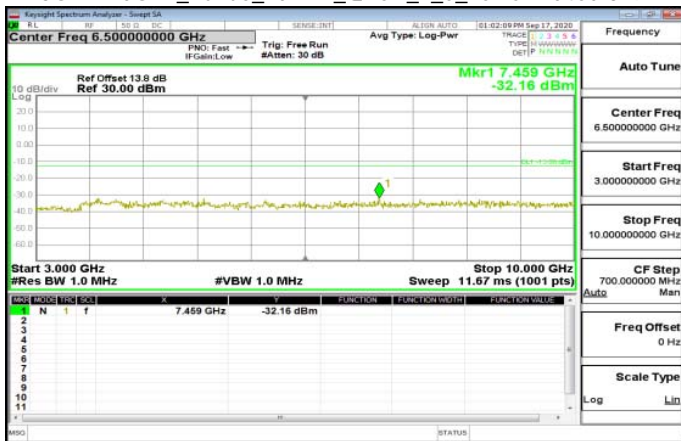
30MHz~3GHz_Band5_10MHz_QPSK_1_0_LowCH20450-829



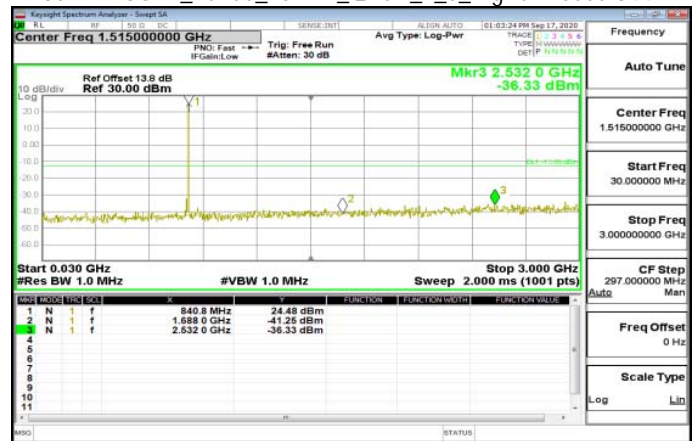
3GHz~10GHz_Band5_10MHz_QPSK_1_0_MidCH20525-836.5



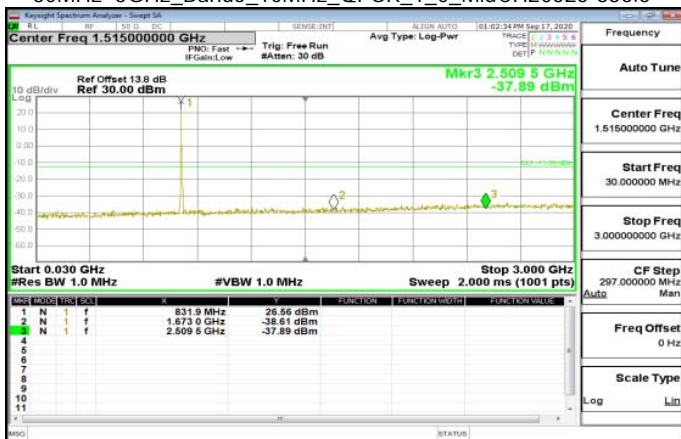
3GHz~10GHz_Band5_10MHz_QPSK_1_0_LowCH20450-829



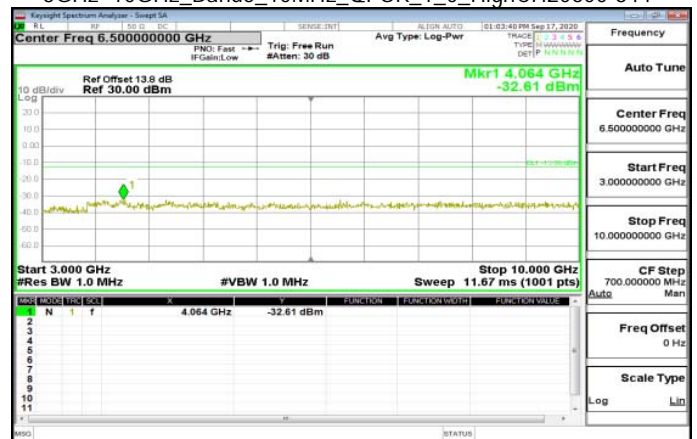
30MHz~3GHz_Band5_10MHz_QPSK_1_0_HighCH20600-844



30MHz~3GHz_Band5_10MHz_QPSK_1_0_MidCH20525-836.5



3GHz~10GHz_Band5_10MHz_QPSK_1_0_HighCH20600-844



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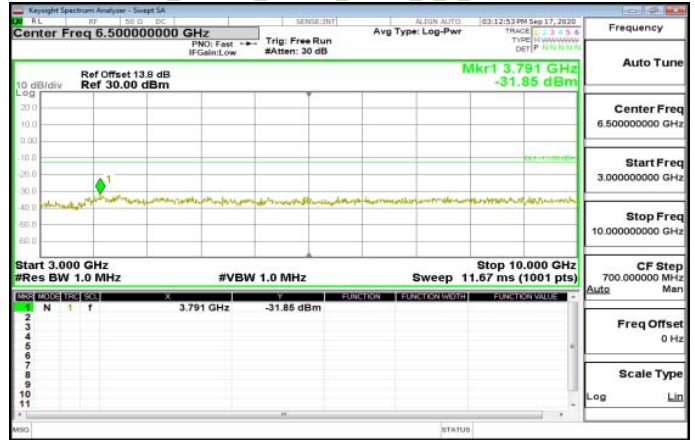
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30MHz~3GHz_Band12_10MHz_QPSK_1_0_LowCH23060-704



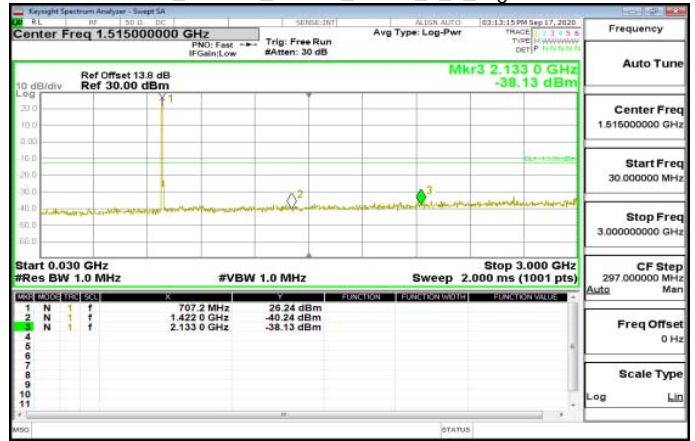
3GHz~10GHz_Band12_10MHz_QPSK_1_0_MidCH23095-707.5



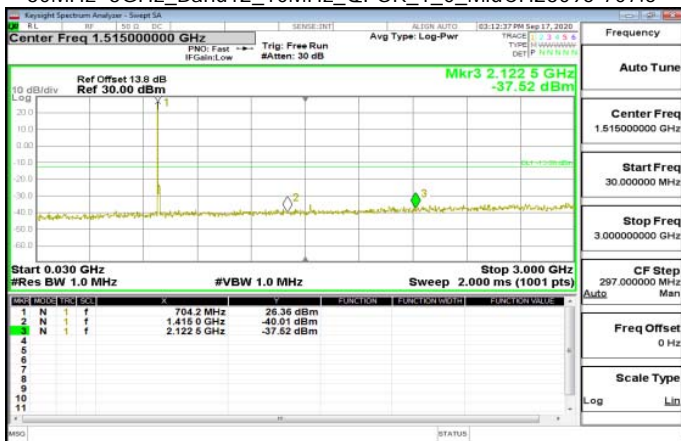
3GHz~10GHz_Band12_10MHz_QPSK_1_0_LowCH23060-704



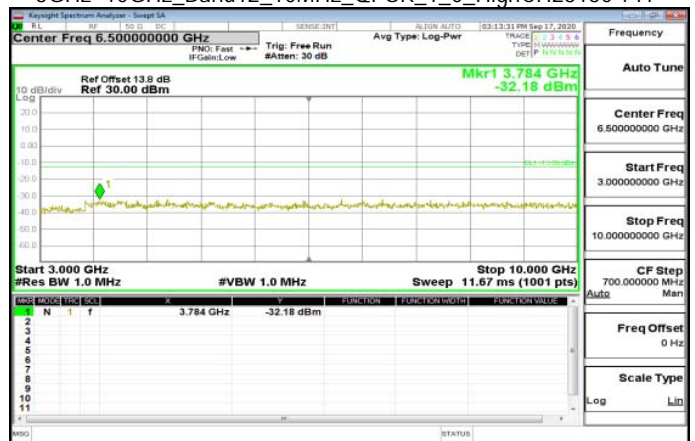
30MHz~3GHz_Band12_10MHz_QPSK_1_0_HighCH23130-711



30MHz~3GHz_Band12_10MHz_QPSK_1_0_MidCH23095-707.5



3GHz~10GHz_Band12_10MHz_QPSK_1_0_HighCH23130-711



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9 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

9.1 Standard Applicable

According to FCC §2.1053,

FCC §22.917(a), §24.238(a)

Out of band emissions. 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.

FCC §27.53(g)

Compliance for operations in the 600 MHz, 698-746 MHz, 746-758 MHz and the 776-788 MHz band 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.

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	$43 + 10 \log_{10}(p)$ ^{Note}
2320 - 2324	$55 + 10 \log_{10}(p)$
2324 - 2328	$61 + 10 \log_{10}(p)$
2328 - 2337	$67 + 10 \log_{10}(p)$
2337 - 2341	$61 + 10 \log_{10}(p)$
2341 - 2345	$55 + 10 \log_{10}(p)$
2345 - 2360	$43 + 10 \log_{10}(p)$ ^{Note}
2360 - 2365	$43 + 10 \log_{10}(p)$
2365 - 2395	$70 + 10 \log_{10}(p)$
>2395	$43 + 10 \log_{10}(p)$

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

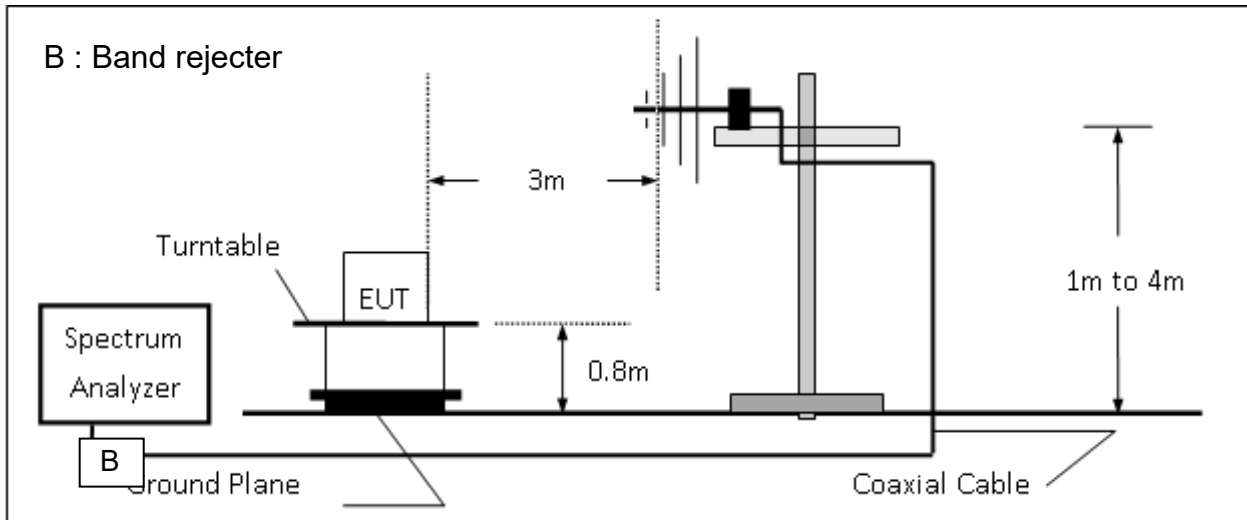
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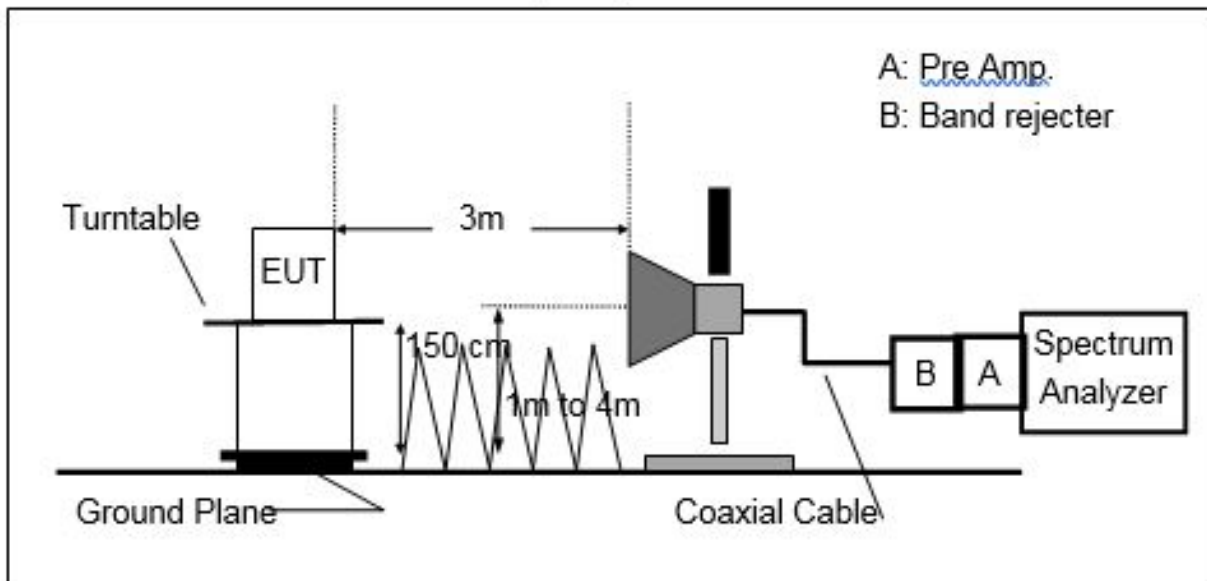
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9.2 EUT Setup

Radiated Emission Test Set-Up, Frequency Below 1000MHz



Radiated Emission Test Set-UP Frequency Over 1 GHz



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9.3 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.

$$\text{ERP (dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBd)} + \text{Cable Loss(dB)}$$

$$\text{EIRP (dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBi)} + \text{Cable Loss(dB)}$$

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9.4 Measurement Equipment Used:

ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Bi-log Antenna	SCHWAZBECK	VULB9168	378	Aug. 6th, 2020	Aug. 5th, 2021
Horn Antenna	Schwarzbeck	BBHA9120D	603	Apr. 29th, 2020	Apr. 28th, 2021
Horn Antenna	Schwarzbeck	BBHA9170	184	Dec. 25th, 2019	Dec. 24th, 2020
Horn Antenna	Schwarzbeck	BBHA9170	185	Jul. 30th, 2020	Jul. 29th, 2021
Horn Antenna	Schwarzbeck	BBHA9120D	D803	Dec. 20th, 2019	Dec. 19th, 2020
Bi-log Antenna	TESEO	CBL 6112D	35242 & AT-N0555	Jan. 13th, 2020	Jan. 12th, 2021
3m Site NSA	SGS	966 chamber	N/A	Jan. 2nd, 2020	Jan. 1st, 2021
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	Apr. 21st, 2020	Apr. 20th, 2021
Signal Generator	Agilent	N5183A	MY50140591	Dec. 20th, 2019	Dec. 19th, 2020
Pre-Amplifier	HP	8449B	3008A00578	Jan. 2nd, 2020	Jan. 1st, 2021
Pre-Amplifier	HP	8447D	2944A07676	Jan. 2nd, 2020	Jan. 1st, 2021
Pre-Amplifier	EMC Instruments	EMC184045B	980135	Jan. 2nd, 2020	Jan. 1st, 2021
Filter 635-920	Micro-Tronics	WI	4	Jan. 2nd, 2020	Jan. 1st, 2021
Filter 800-1000	Micro-Tronics	EWT	M1	Jan. 2nd, 2020	Jan. 1st, 2021
Filter 1700-2000	Micro-Tronics	EWT	M3	Jan. 2nd, 2020	Jan. 1st, 2021
1GHz High Pass Filter	Micro-Tronics	HPM50108	32	Jan. 2nd, 2020	Jan. 1st, 2021
2GHz High Pass Filter	Micro-Tronics	HPM50110	36	Jan. 2nd, 2020	Jan. 1st, 2021
Low Loss Cable	Huber Suhner	966_RX	9	Jan. 2nd, 2020	Jan. 1st, 2021
Low Loss Cable	Huber Suhner	966 TX	1	Jan. 2nd, 2020	Jan. 1st, 2021
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	Apr. 1st, 2020	May. 31st, 2021
Radio Communication Analyzer	Anritsu	MT8815B	6200711454	Apr. 1st, 2020	May. 31st, 2021
Test Software	audix	e3	Ver. 6.11-20180413	N.C.R	N.C.R

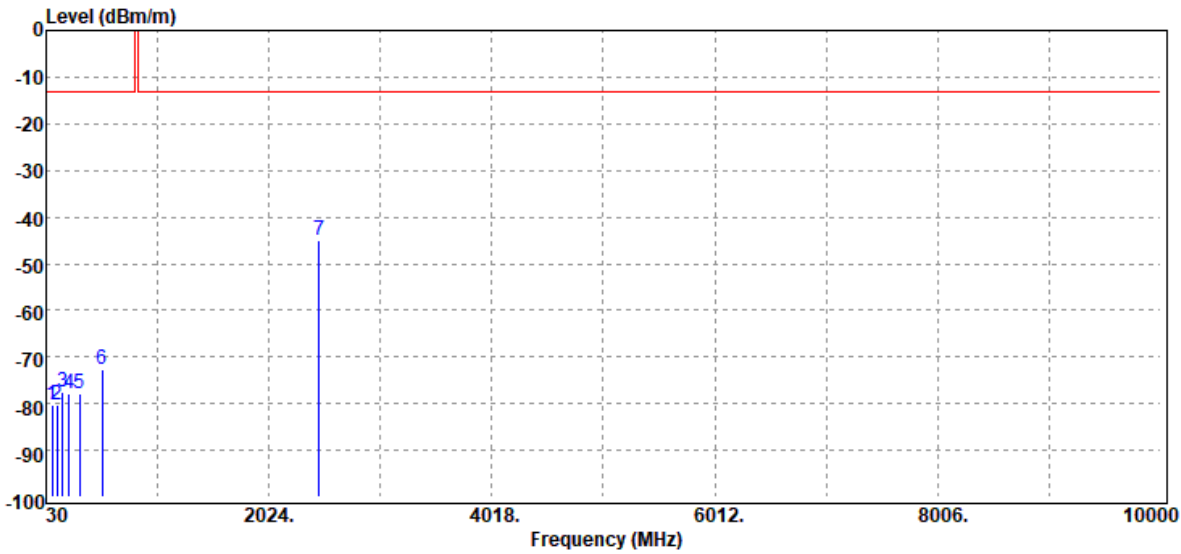
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9.5 Measurement Result:

Report Number	:ER-2020-90015	Test Site	:SAC III Chamber
Operation Mode	:GSM 850	Test Date	:2020-09-14
Test Mode	:Tx CH Low	Temp./Humi.	:25.5/63
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:824.2 MHz	Engineer	:Nick



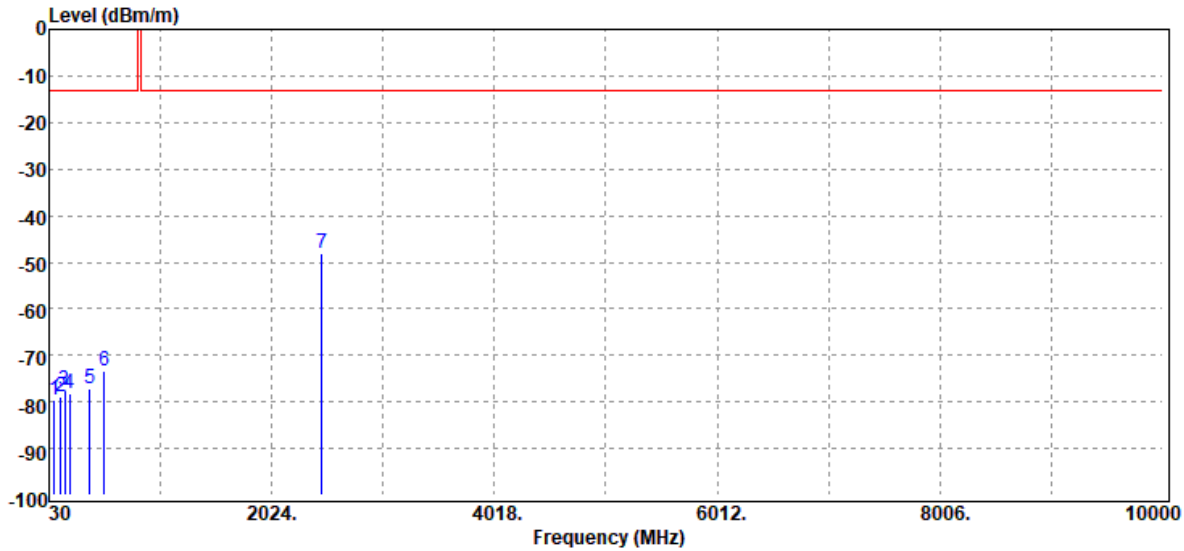
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
86.26	-80.12	-72.58	-6.66	-0.88	-13.00	-67.12
127.00	-80.27	-72.01	-7.25	-1.01	-13.00	-67.27
180.35	-77.54	-74.61	-1.70	-1.23	-13.00	-64.54
233.70	-77.89	-74.89	-1.55	-1.45	-13.00	-64.89
327.79	-77.72	-74.86	-1.17	-1.69	-13.00	-64.72
529.55	-72.71	-70.03	-0.84	-1.84	-13.00	-59.71
2472.60	-44.98	-50.80	10.59	-4.77	-13.00	-31.98

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Report Number :ER-2020-90015
Operation Mode :GSM 850
Test Mode :Tx CH Low
EUT Pol :H Plane
Test Frequency :824.2 MHz

Test Site :SAC III Chamber
Test Date :2020-09-14
Temp./Humi. :25.5/63
Antenna Pol. :HORIZONTAL
Engineer :Nick



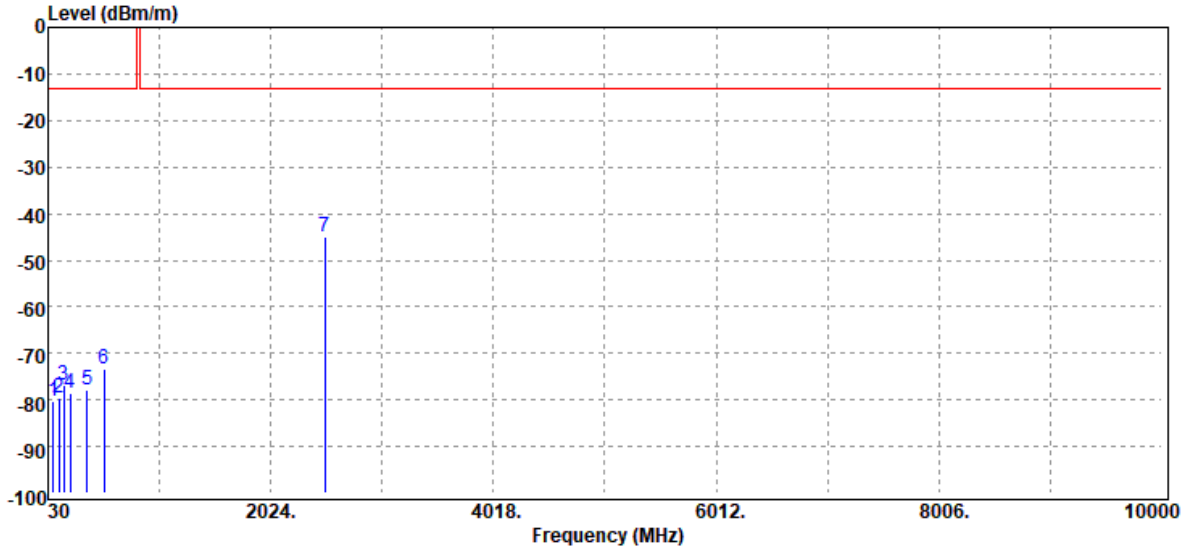
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
76.56	-79.50	-72.06	-6.60	-0.84	-13.00	-66.50
131.85	-78.85	-71.01	-6.84	-1.00	-13.00	-65.85
172.59	-77.65	-74.06	-2.33	-1.26	-13.00	-64.65
217.21	-78.04	-75.69	-0.98	-1.37	-13.00	-65.04
395.69	-77.18	-73.83	-1.51	-1.84	-13.00	-64.18
526.64	-73.20	-70.43	-0.83	-1.94	-13.00	-60.20
2472.60	-48.17	-53.99	10.59	-4.77	-13.00	-35.17

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Report Number :ER-2020-90015
 Operation Mode :GSM 850
 Test Mode :Tx CH Mid
 EUT Pol :H Plane
 Test Frequency :836.6 MHz

Test Site :SAC III Chamber
 Test Date :2020-09-14
 Temp./Humi. :25.5/63
 Antenna Pol. :VERTICAL
 Engineer :Nick



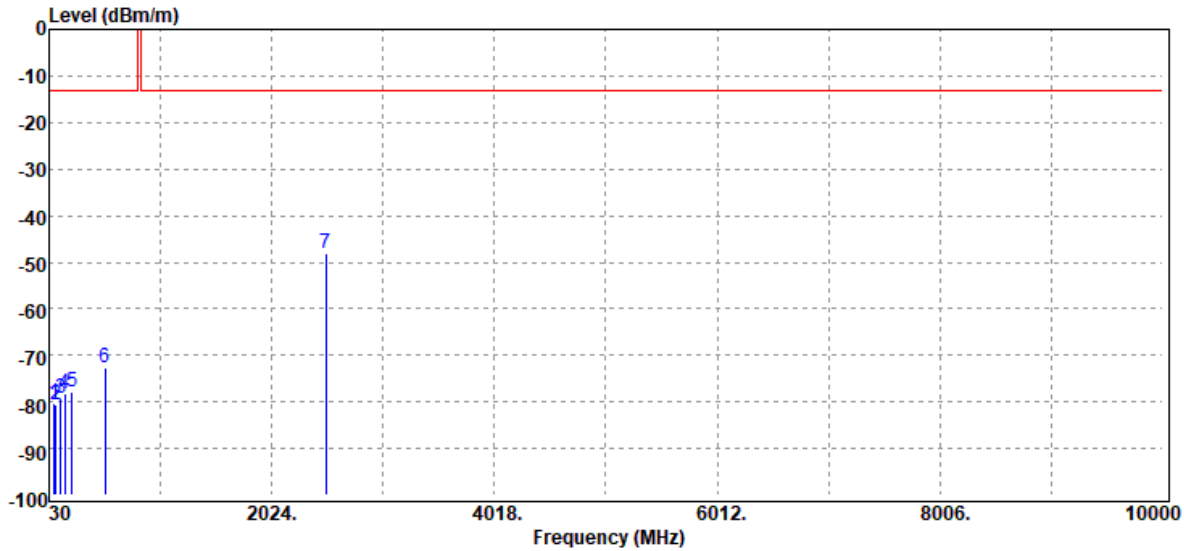
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
76.56	-80.26	-72.82	-6.60	-0.84	-13.00	-67.26
128.94	-79.49	-71.38	-7.12	-0.99	-13.00	-66.49
170.65	-76.83	-72.98	-2.58	-1.27	-13.00	-63.83
226.91	-78.50	-75.89	-1.20	-1.41	-13.00	-65.50
381.14	-77.77	-74.73	-1.23	-1.81	-13.00	-64.77
532.46	-73.28	-70.53	-0.90	-1.85	-13.00	-60.28
2509.80	-45.07	-50.99	10.74	-4.82	-13.00	-32.07

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Report Number :ER-2020-90015
 Operation Mode :GSM 850
 Test Mode :Tx CH Mid
 EUT Pol :H Plane
 Test Frequency :836.6 MHz

Test Site :SAC III Chamber
 Test Date :2020-09-14
 Temp./Humi. :25.5/63
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



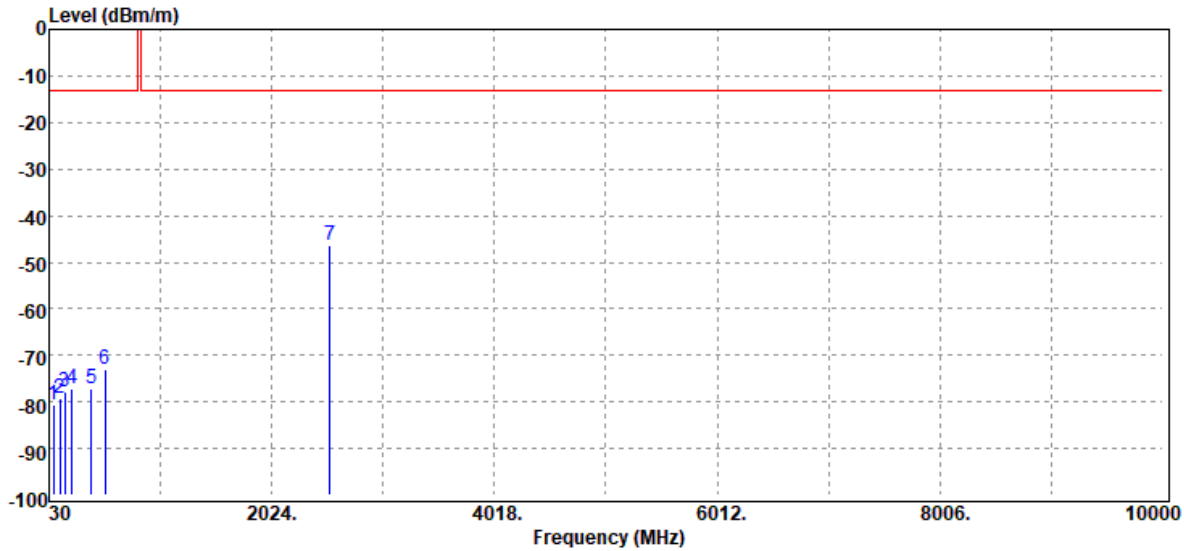
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
75.59	-80.17	-72.76	-6.58	-0.83	-13.00	-67.17
88.20	-80.65	-72.82	-6.94	-0.89	-13.00	-67.65
131.85	-79.29	-71.45	-6.84	-1.00	-13.00	-66.29
172.59	-78.04	-74.45	-2.33	-1.26	-13.00	-65.04
233.70	-77.79	-74.79	-1.55	-1.45	-13.00	-64.79
532.46	-72.61	-69.86	-0.90	-1.85	-13.00	-59.61
2509.80	-48.01	-53.93	10.74	-4.82	-13.00	-35.01

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Report Number :ER-2020-90015
 Operation Mode :GSM 850
 Test Mode :Tx CH High
 EUT Pol :H Plane
 Test Frequency :848.8 MHz

Test Site :SAC III Chamber
 Test Date :2020-09-14
 Temp./Humi. :25.5/63
 Antenna Pol. :VERTICAL
 Engineer :Nick



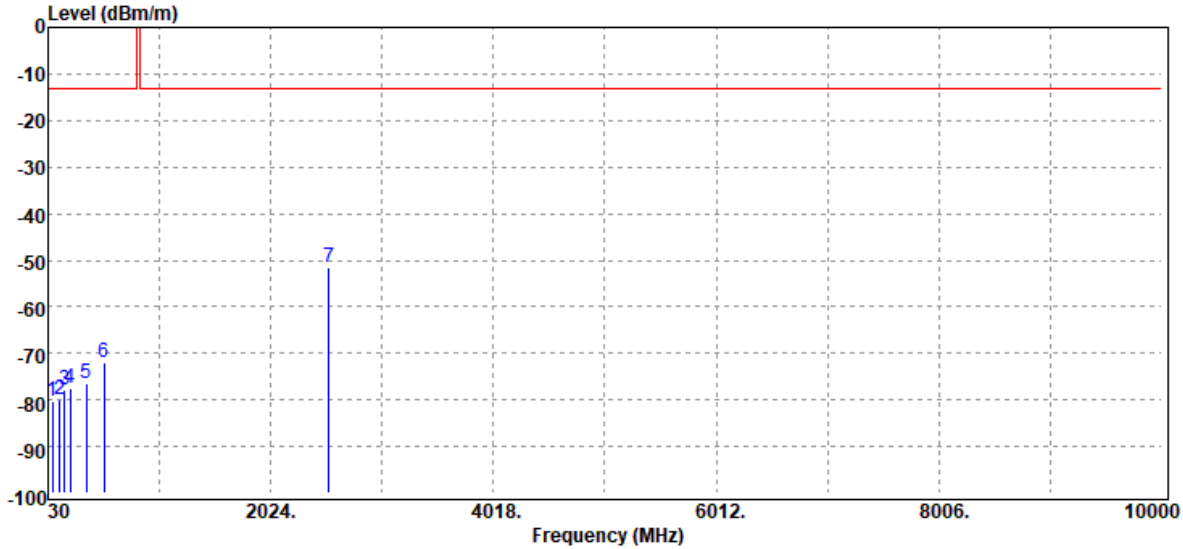
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
66.86	-80.71	-72.78	-7.14	-0.79	-13.00	-67.71
127.00	-79.32	-71.06	-7.25	-1.01	-13.00	-66.32
173.56	-77.79	-74.30	-2.24	-1.25	-13.00	-64.79
233.70	-77.03	-74.03	-1.55	-1.45	-13.00	-64.03
411.21	-77.07	-73.18	-1.99	-1.90	-13.00	-64.07
534.40	-72.96	-70.14	-0.95	-1.87	-13.00	-59.96
2546.40	-46.24	-52.27	10.89	-4.86	-13.00	-33.24

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Report Number :ER-2020-90015
 Operation Mode :GSM 850
 Test Mode :Tx CH High
 EUT Pol :H Plane
 Test Frequency :848.8 MHz

Test Site :SAC III Chamber
 Test Date :2020-09-14
 Temp./Humi. :25.5/63
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



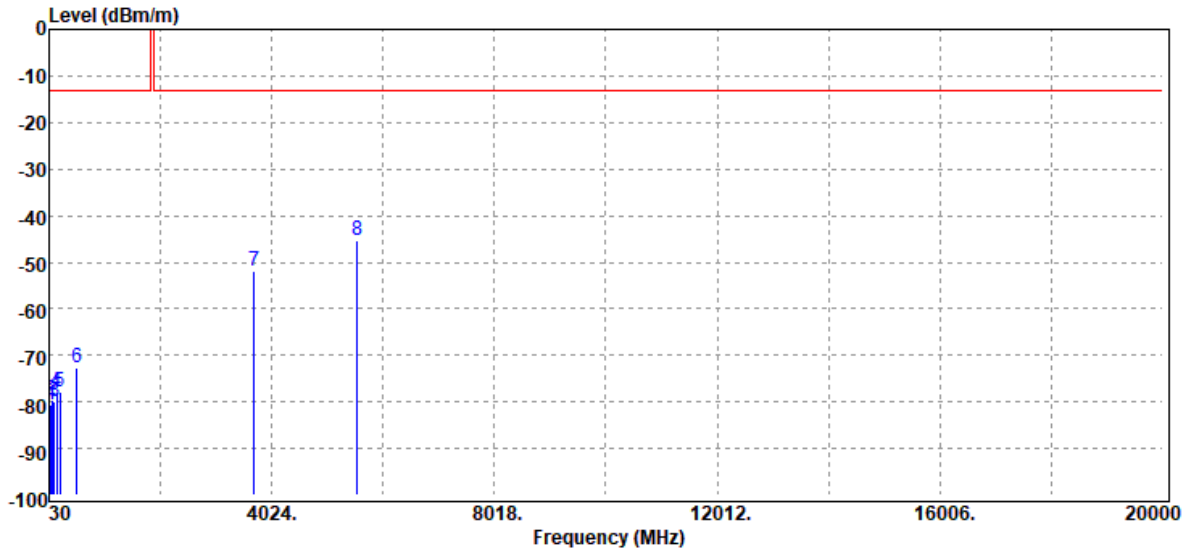
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
69.77	-80.19	-72.58	-6.80	-0.81	-13.00	-67.19
131.85	-79.93	-72.09	-6.84	-1.00	-13.00	-66.93
175.50	-77.97	-74.69	-2.04	-1.24	-13.00	-64.97
230.79	-77.66	-74.80	-1.43	-1.43	-13.00	-64.66
369.50	-76.43	-73.31	-1.38	-1.74	-13.00	-63.43
534.40	-71.97	-69.15	-0.95	-1.87	-13.00	-58.97
2546.40	-51.56	-57.59	10.89	-4.86	-13.00	-38.56

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Report Number :ER-2020-90015
Operation Mode :GSM 1900
Test Mode :Tx CH Low
EUT Pol :H Plane
Test Frequency :1850.2 MHz

Test Site :SAC III Chamber
Test Date :2020-09-14
Temp./Humi. :25.5/63
Antenna Pol. :VERTICAL
Engineer :Nick



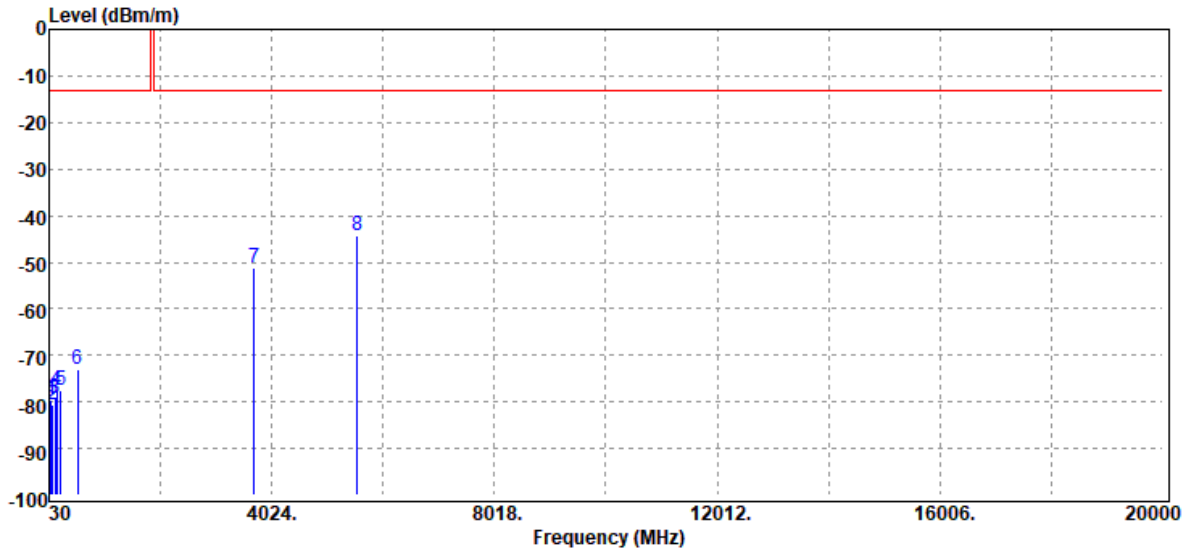
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
68.80	-80.52	-72.64	-7.07	-0.81	-13.00	-67.52
85.29	-79.56	-72.04	-6.64	-0.88	-13.00	-66.56
128.94	-80.00	-71.89	-7.12	-0.99	-13.00	-67.00
173.56	-77.88	-74.39	-2.24	-1.25	-13.00	-64.88
228.85	-77.99	-75.25	-1.32	-1.42	-13.00	-64.99
529.55	-72.59	-69.91	-0.84	-1.84	-13.00	-59.59
3700.40	-51.87	-58.41	12.40	-5.86	-13.00	-38.87
5550.00	-45.45	-51.31	13.20	-7.34	-13.00	-32.45

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Report Number :ER-2020-90015
Operation Mode :GSM 1900
Test Mode :Tx CH Low
EUT Pol :H Plane
Test Frequency :1850.2 MHz

Test Site :SAC III Chamber
Test Date :2020-09-14
Temp./Humi. :25.5/63
Antenna Pol. :HORIZONTAL
Engineer :Nick



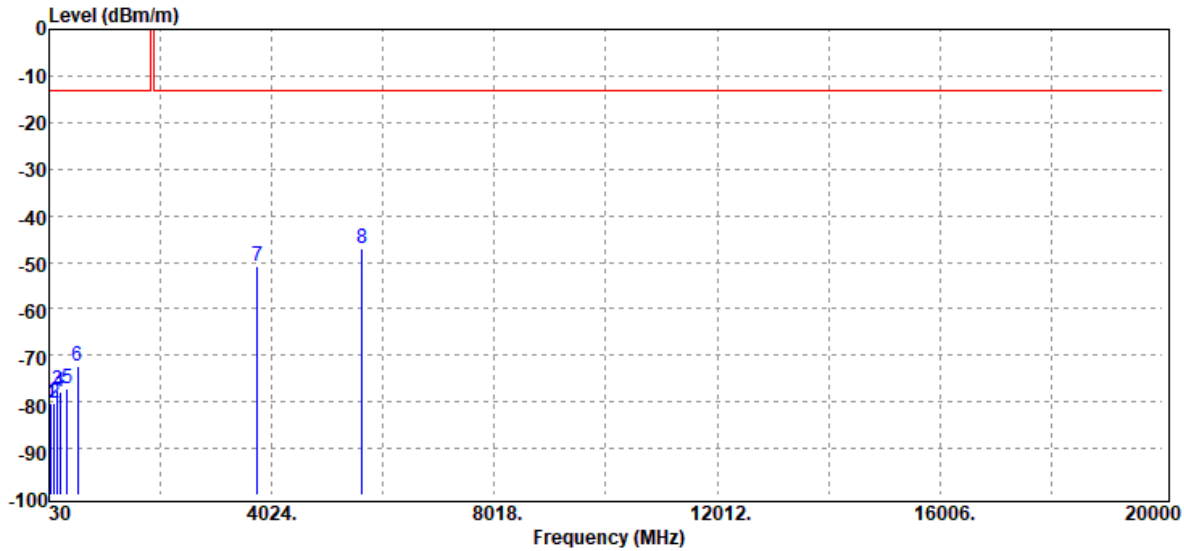
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
66.86	-79.58	-71.65	-7.14	-0.79	-13.00	-66.58
90.14	-80.79	-72.65	-7.24	-0.90	-13.00	-67.79
131.85	-79.33	-71.49	-6.84	-1.00	-13.00	-66.33
167.74	-77.67	-73.55	-2.86	-1.26	-13.00	-64.67
233.70	-77.57	-74.57	-1.55	-1.45	-13.00	-64.57
537.31	-72.90	-69.99	-1.01	-1.90	-13.00	-59.90
3700.40	-51.38	-57.92	12.40	-5.86	-13.00	-38.38
5550.00	-44.38	-50.24	13.20	-7.34	-13.00	-31.38

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Report Number :ER-2020-90015
Operation Mode :GSM 1900
Test Mode :Tx CH Mid
EUT Pol :H Plane
Test Frequency :1880.0 MHz

Test Site :SAC III Chamber
Test Date :2020-09-14
Temp./Humi. :25.5/63
Antenna Pol. :VERTICAL
Engineer :Nick



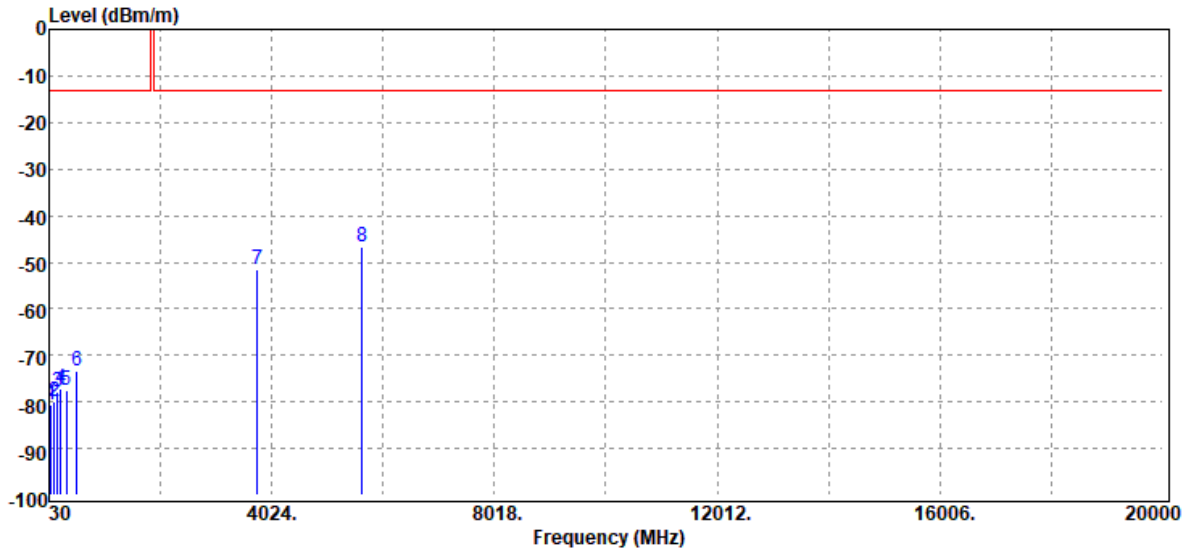
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
66.86	-80.38	-72.45	-7.14	-0.79	-13.00	-67.38
125.06	-80.31	-72.00	-7.29	-1.02	-13.00	-67.31
178.41	-77.36	-74.33	-1.80	-1.23	-13.00	-64.36
231.76	-77.97	-75.06	-1.47	-1.44	-13.00	-64.97
361.74	-77.24	-73.87	-1.66	-1.71	-13.00	-64.24
548.95	-72.46	-69.25	-1.04	-2.17	-13.00	-59.46
3760.00	-50.74	-57.40	12.40	-5.74	-13.00	-37.74
5640.00	-47.08	-53.11	13.26	-7.23	-13.00	-34.08

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Report Number :ER-2020-90015
Operation Mode :GSM 1900
Test Mode :Tx CH Mid
EUT Pol :H Plane
Test Frequency :1880.0 MHz

Test Site :SAC III Chamber
Test Date :2020-09-14
Temp./Humi. :25.5/63
Antenna Pol. :HORIZONTAL
Engineer :Nick



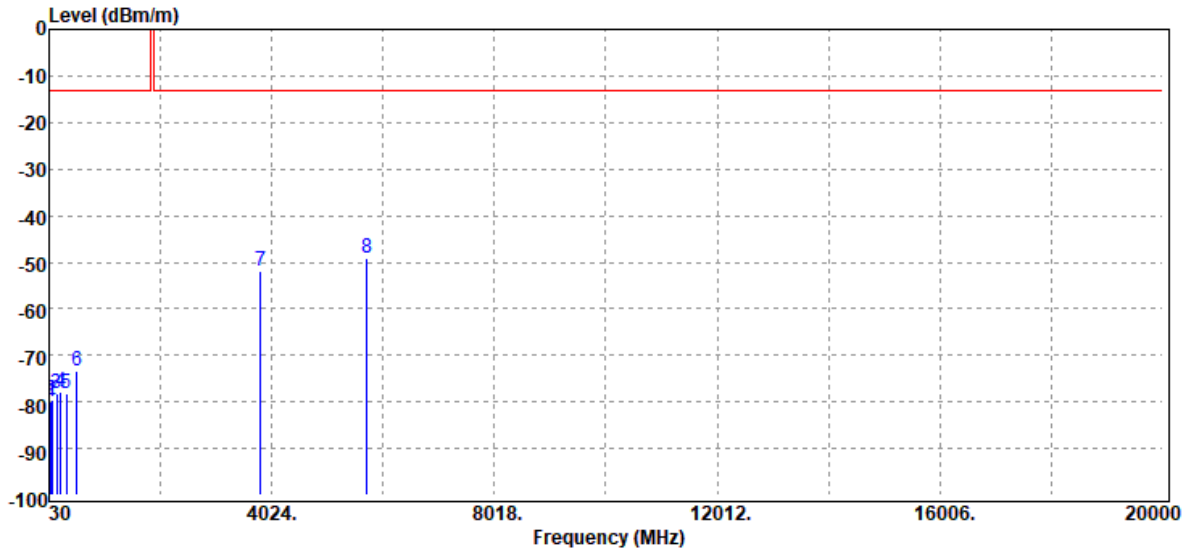
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
68.80	-80.59	-72.71	-7.07	-0.81	-13.00	-67.59
128.94	-80.08	-71.97	-7.12	-0.99	-13.00	-67.08
175.50	-77.85	-74.57	-2.04	-1.24	-13.00	-64.85
233.70	-77.21	-74.21	-1.55	-1.45	-13.00	-64.21
338.46	-77.49	-74.37	-1.28	-1.84	-13.00	-64.49
531.49	-73.31	-70.59	-0.88	-1.84	-13.00	-60.31
3760.00	-51.47	-58.13	12.40	-5.74	-13.00	-38.47
5640.00	-46.57	-52.60	13.26	-7.23	-13.00	-33.57

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Report Number :ER-2020-90015
Operation Mode :GSM 1900
Test Mode :Tx CH High
EUT Pol :H Plane
Test Frequency :1909.8 MHz

Test Site :SAC III Chamber
Test Date :2020-09-14
Temp./Humi. :25.5/63
Antenna Pol. :VERTICAL
Engineer :Nick



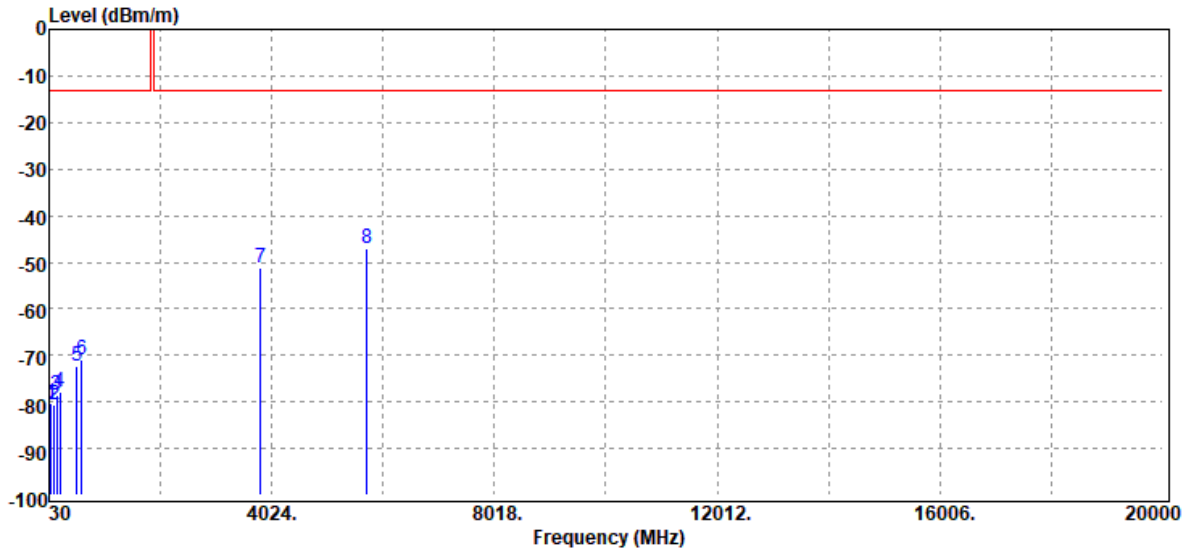
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
66.86	-79.89	-71.96	-7.14	-0.79	-13.00	-66.89
73.65	-79.66	-72.12	-6.71	-0.83	-13.00	-66.66
170.65	-78.14	-74.29	-2.58	-1.27	-13.00	-65.14
233.70	-77.95	-74.95	-1.55	-1.45	-13.00	-64.95
337.49	-78.07	-74.99	-1.26	-1.82	-13.00	-65.07
527.61	-73.38	-70.64	-0.83	-1.91	-13.00	-60.38
3819.60	-52.08	-58.69	12.40	-5.79	-13.00	-39.08
5729.40	-49.12	-54.79	13.10	-7.43	-13.00	-36.12

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Report Number :ER-2020-90015
 Operation Mode :GSM 1900
 Test Mode :Tx CH High
 EUT Pol :H Plane
 Test Frequency :1909.8 MHz

Test Site :SAC III Chamber
 Test Date :2020-09-14
 Temp./Humi. :25.5/63
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



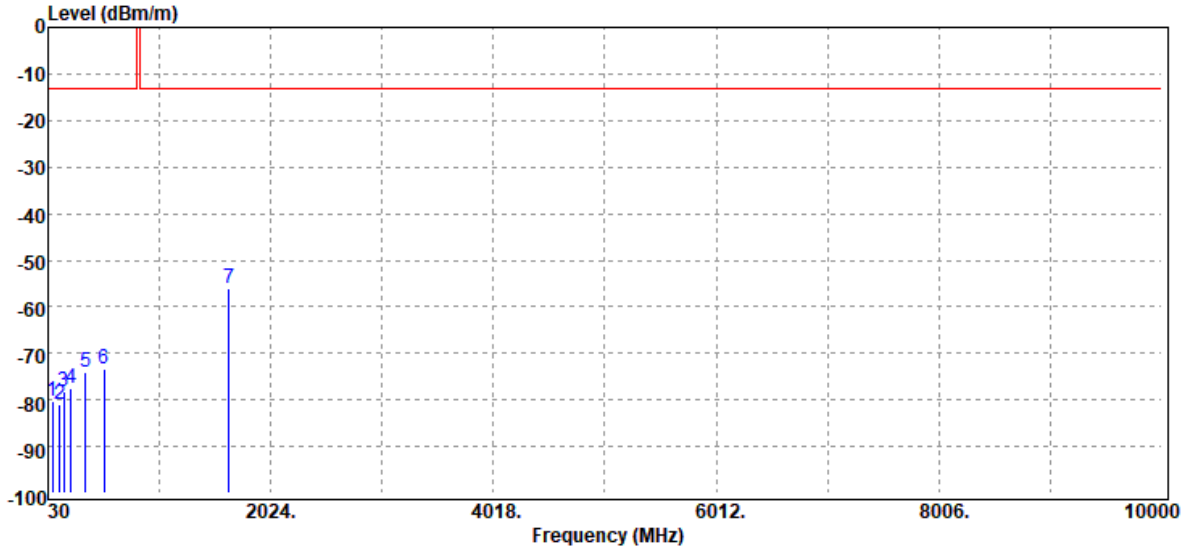
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
66.86	-80.12	-72.19	-7.14	-0.79	-13.00	-67.12
127.00	-80.60	-72.34	-7.25	-1.01	-13.00	-67.60
173.56	-78.52	-75.03	-2.24	-1.25	-13.00	-65.52
231.76	-77.82	-74.91	-1.47	-1.44	-13.00	-64.82
531.49	-72.37	-69.65	-0.88	-1.84	-13.00	-59.37
621.70	-70.99	-68.27	-0.62	-2.10	-13.00	-57.99
3819.60	-51.20	-57.81	12.40	-5.79	-13.00	-38.20
5729.40	-46.97	-52.64	13.10	-7.43	-13.00	-33.97

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Report Number :ER-2020-90015
 Operation Mode :WCDMA B5
 Test Mode :Tx CH Low
 EUT Pol :H Plane
 Test Frequency :826.4 MHz

Test Site :SAC III Chamber
 Test Date :2020-09-14
 Temp./Humi. :25.5/63
 Antenna Pol. :VERTICAL
 Engineer :Nick



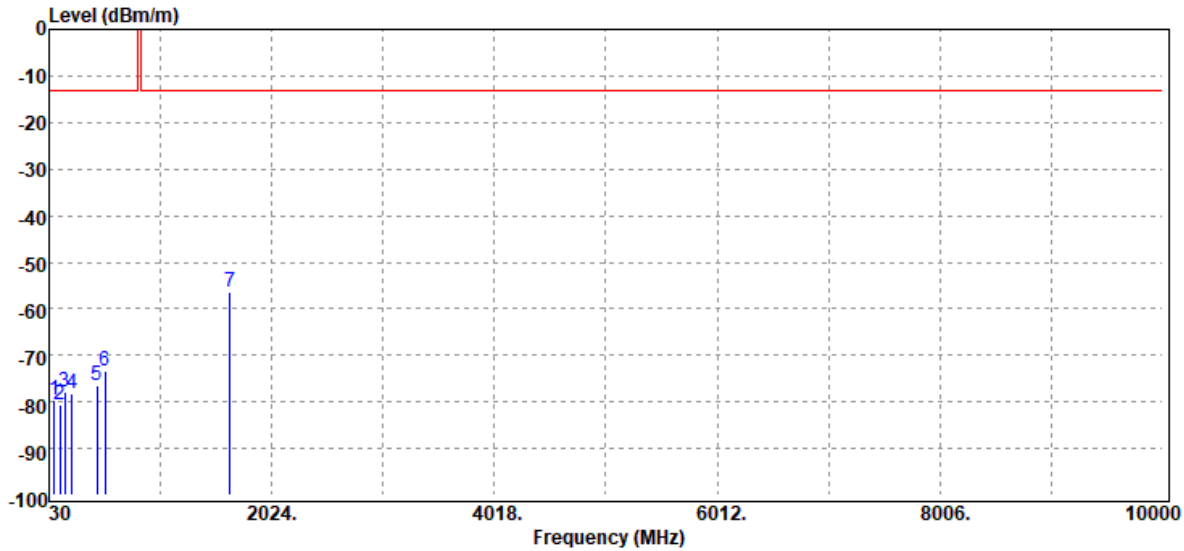
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
71.71	-80.23	-72.57	-6.84	-0.82	-13.00	-67.23
131.85	-81.14	-73.30	-6.84	-1.00	-13.00	-68.14
167.74	-78.16	-74.04	-2.86	-1.26	-13.00	-65.16
235.64	-77.58	-74.49	-1.63	-1.46	-13.00	-64.58
367.56	-74.12	-70.92	-1.47	-1.73	-13.00	-61.12
529.55	-73.47	-70.79	-0.84	-1.84	-13.00	-60.47
1652.80	-56.18	-62.22	9.91	-3.87	-13.00	-43.18

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Report Number :ER-2020-90015
 Operation Mode :WCDMA B5
 Test Mode :Tx CH Low
 EUT Pol :H Plane
 Test Frequency :826.4 MHz

Test Site :SAC III Chamber
 Test Date :2020-09-14
 Temp./Humi. :25.5/63
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



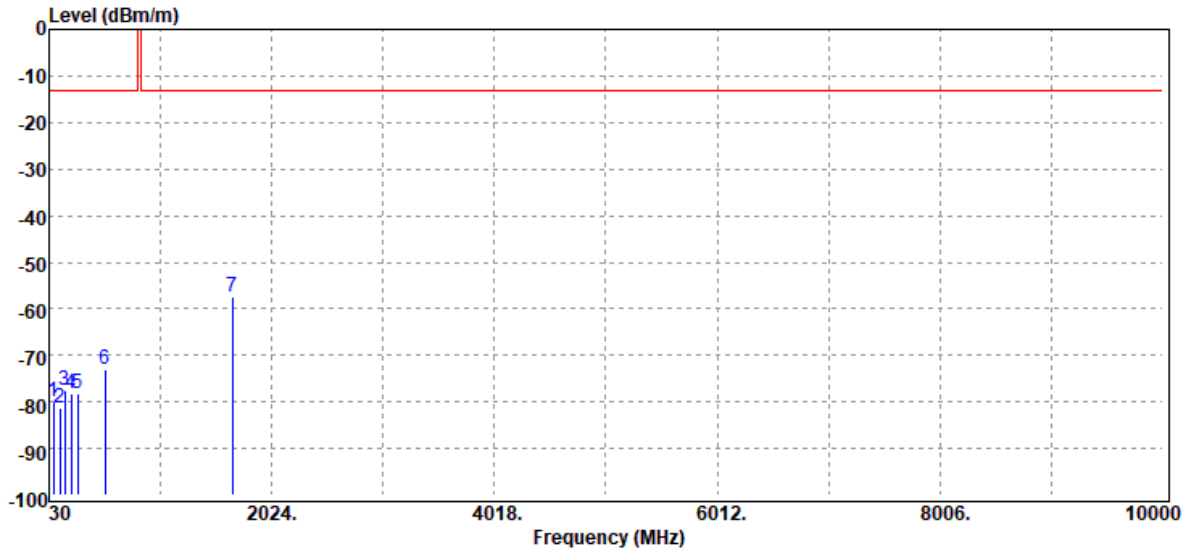
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
75.59	-79.66	-72.25	-6.58	-0.83	-13.00	-66.66
128.94	-80.51	-72.40	-7.12	-0.99	-13.00	-67.51
173.56	-77.82	-74.33	-2.24	-1.25	-13.00	-64.82
233.70	-78.10	-75.10	-1.55	-1.45	-13.00	-65.10
456.80	-76.47	-73.52	-1.10	-1.85	-13.00	-63.47
532.46	-73.33	-70.58	-0.90	-1.85	-13.00	-60.33
1652.80	-56.54	-62.58	9.91	-3.87	-13.00	-43.54

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Report Number :ER-2020-90015
 Operation Mode :WCDMA B5
 Test Mode :Tx CH Mid
 EUT Pol :H Plane
 Test Frequency :836.6 MHz

Test Site :SAC III Chamber
 Test Date :2020-09-14
 Temp./Humi. :25.5/63
 Antenna Pol. :VERTICAL
 Engineer :Nick



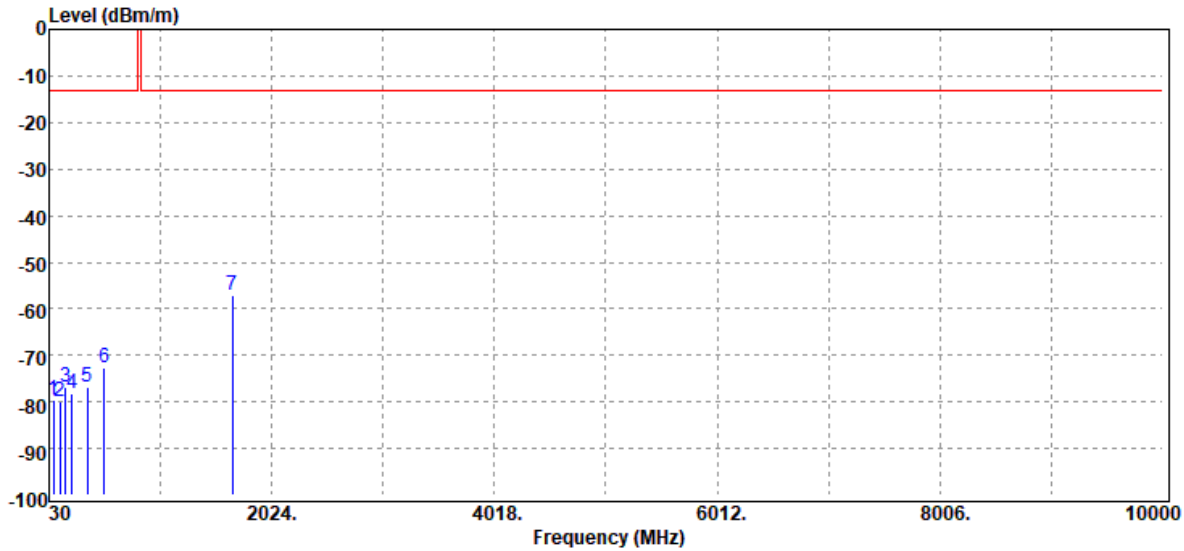
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
71.71	-80.04	-72.38	-6.84	-0.82	-13.00	-67.04
129.91	-81.46	-73.43	-7.05	-0.98	-13.00	-68.46
168.71	-77.52	-73.48	-2.78	-1.26	-13.00	-64.52
231.76	-78.15	-75.24	-1.47	-1.44	-13.00	-65.15
287.05	-78.35	-75.24	-1.51	-1.60	-13.00	-65.35
530.52	-73.02	-70.34	-0.85	-1.83	-13.00	-60.02
1673.20	-57.47	-63.52	9.95	-3.90	-13.00	-44.47

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Report Number :ER-2020-90015
 Operation Mode :WCDMA B5
 Test Mode :Tx CH Mid
 EUT Pol :H Plane
 Test Frequency :836.6 MHz

Test Site :SAC III Chamber
 Test Date :2020-09-14
 Temp./Humi. :25.5/63
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



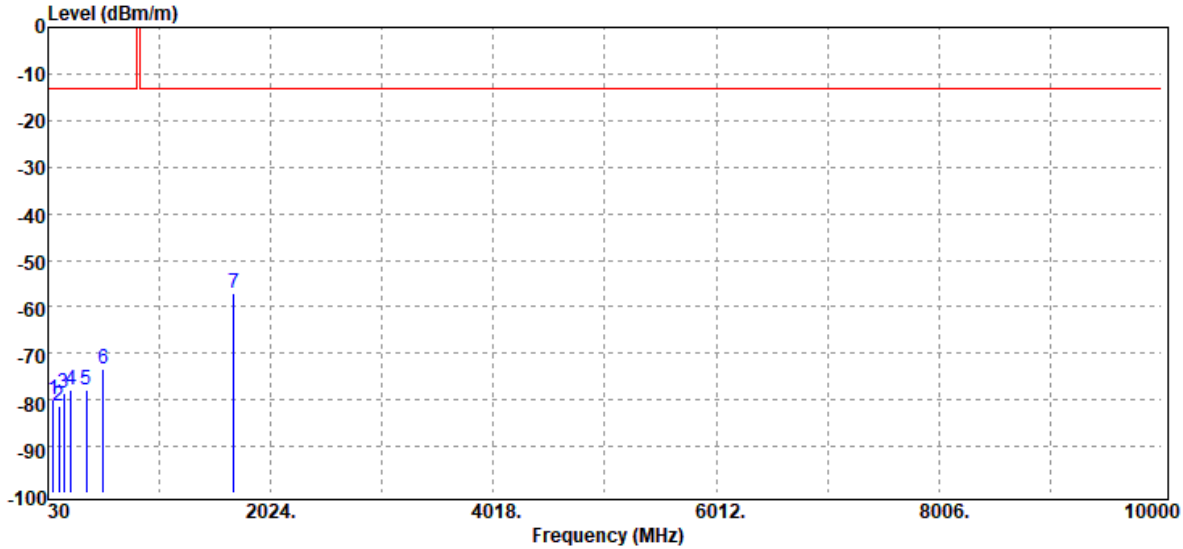
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
66.86	-79.47	-71.54	-7.14	-0.79	-13.00	-66.47
127.00	-80.04	-71.78	-7.25	-1.01	-13.00	-67.04
177.44	-76.90	-73.76	-1.90	-1.24	-13.00	-63.90
235.64	-78.07	-74.98	-1.63	-1.46	-13.00	-65.07
374.35	-76.94	-73.91	-1.26	-1.77	-13.00	-63.94
522.76	-72.80	-69.87	-0.86	-2.07	-13.00	-59.80
1673.20	-57.05	-63.10	9.95	-3.90	-13.00	-44.05

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Report Number :ER-2020-90015
Operation Mode :WCDMA B5
Test Mode :Tx CH High
EUT Pol :H Plane
Test Frequency :846.6 MHz

Test Site :SAC III Chamber
Test Date :2020-09-14
Temp./Humi. :25.5/63
Antenna Pol. :VERTICAL
Engineer :Nick



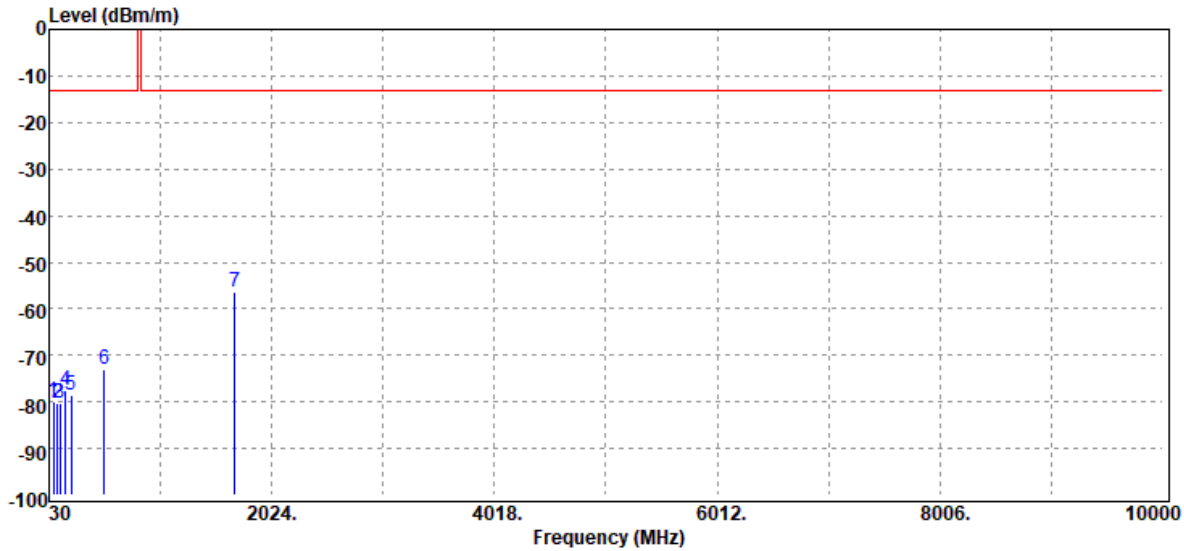
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
73.65	-79.83	-72.29	-6.71	-0.83	-13.00	-66.83
129.91	-81.20	-73.17	-7.05	-0.98	-13.00	-68.20
170.65	-78.56	-74.71	-2.58	-1.27	-13.00	-65.56
233.70	-77.81	-74.81	-1.55	-1.45	-13.00	-64.81
369.50	-77.90	-74.78	-1.38	-1.74	-13.00	-64.90
527.61	-73.22	-70.48	-0.83	-1.91	-13.00	-60.22
1693.20	-56.97	-63.04	9.99	-3.92	-13.00	-43.97

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Report Number :ER-2020-90015
 Operation Mode :WCDMA B5
 Test Mode :Tx CH High
 EUT Pol :H Plane
 Test Frequency :846.6 MHz

Test Site :SAC III Chamber
 Test Date :2020-09-14
 Temp./Humi. :25.5/63
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



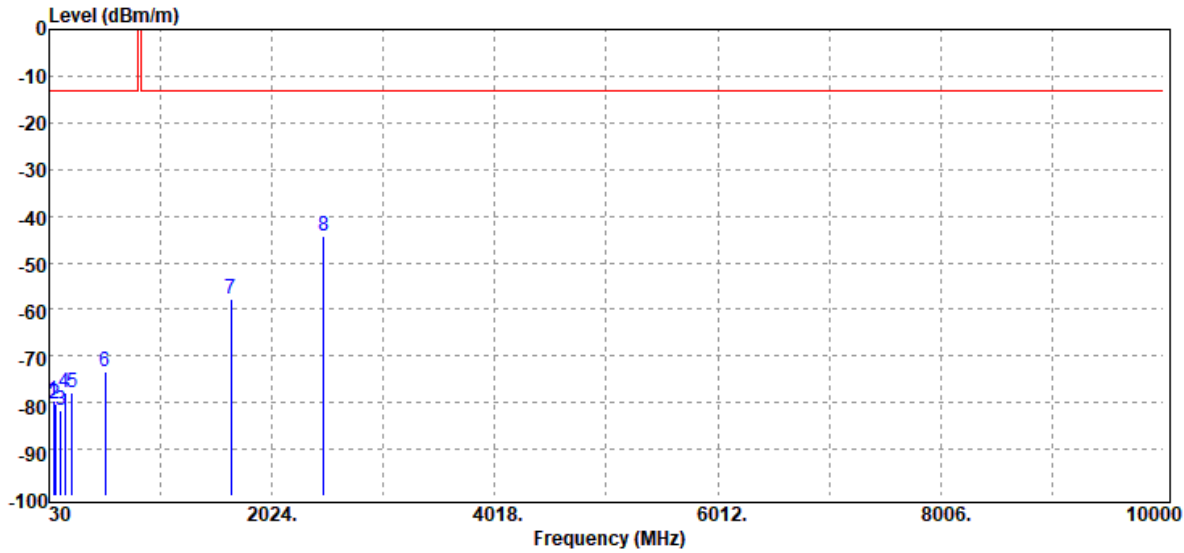
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
68.80	-79.98	-72.10	-7.07	-0.81	-13.00	-66.98
104.69	-80.26	-70.99	-8.30	-0.97	-13.00	-67.26
127.00	-80.22	-71.96	-7.25	-1.01	-13.00	-67.22
175.50	-77.36	-74.08	-2.04	-1.24	-13.00	-64.36
230.79	-78.61	-75.75	-1.43	-1.43	-13.00	-65.61
526.64	-73.04	-70.27	-0.83	-1.94	-13.00	-60.04
1693.20	-56.45	-62.52	9.99	-3.92	-13.00	-43.45

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Report Number :ER-2020-90015
 Operation Mode :LTE B5
 Test Mode :Tx CH Low
 EUT Pol :H Plane
 Test Frequency :829 MHz

Test Site :SAC III Chamber
 Test Date :2020-09-14
 Temp./Humi. :25.5/63
 Antenna Pol. :VERTICAL
 Engineer :Nick



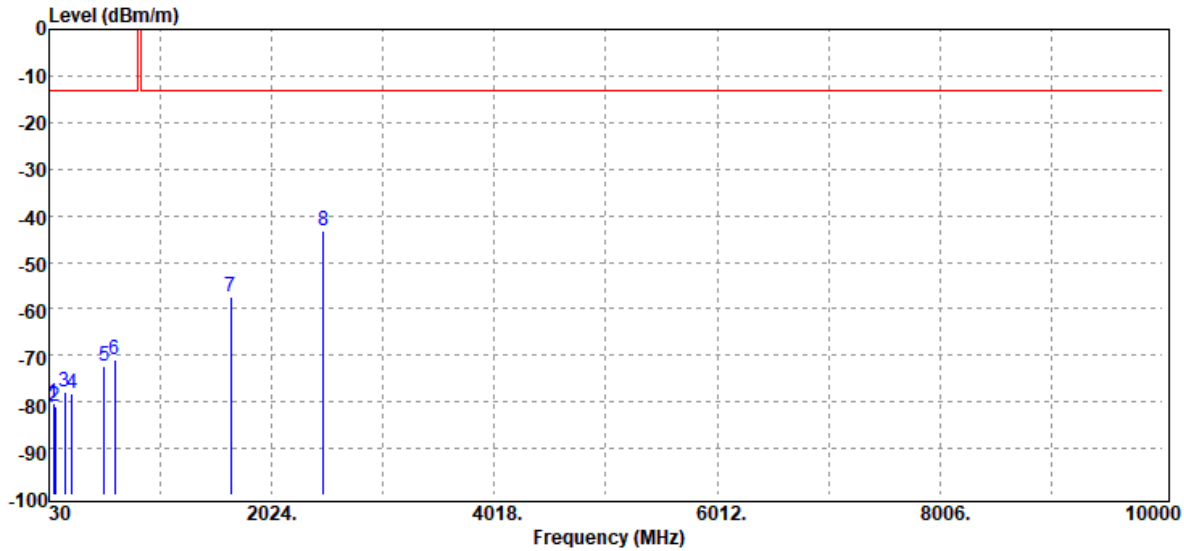
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
66.86	-79.71	-71.78	-7.14	-0.79	-13.00	-66.71
83.35	-80.11	-72.76	-6.48	-0.87	-13.00	-67.11
131.85	-81.74	-73.90	-6.84	-1.00	-13.00	-68.74
173.56	-78.02	-74.53	-2.24	-1.25	-13.00	-65.02
233.70	-77.92	-74.92	-1.55	-1.45	-13.00	-64.92
531.49	-73.43	-70.71	-0.88	-1.84	-13.00	-60.43
1658.00	-57.96	-64.00	9.92	-3.88	-13.00	-44.96
2487.00	-44.17	-50.03	10.65	-4.79	-13.00	-31.17

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Report Number :ER-2020-90015
Operation Mode :LTE B5
Test Mode :Tx CH Low
EUT Pol :H Plane
Test Frequency :829 MHz

Test Site :SAC III Chamber
Test Date :2020-09-14
Temp./Humi. :25.5/63
Antenna Pol. :HORIZONTAL
Engineer :Nick



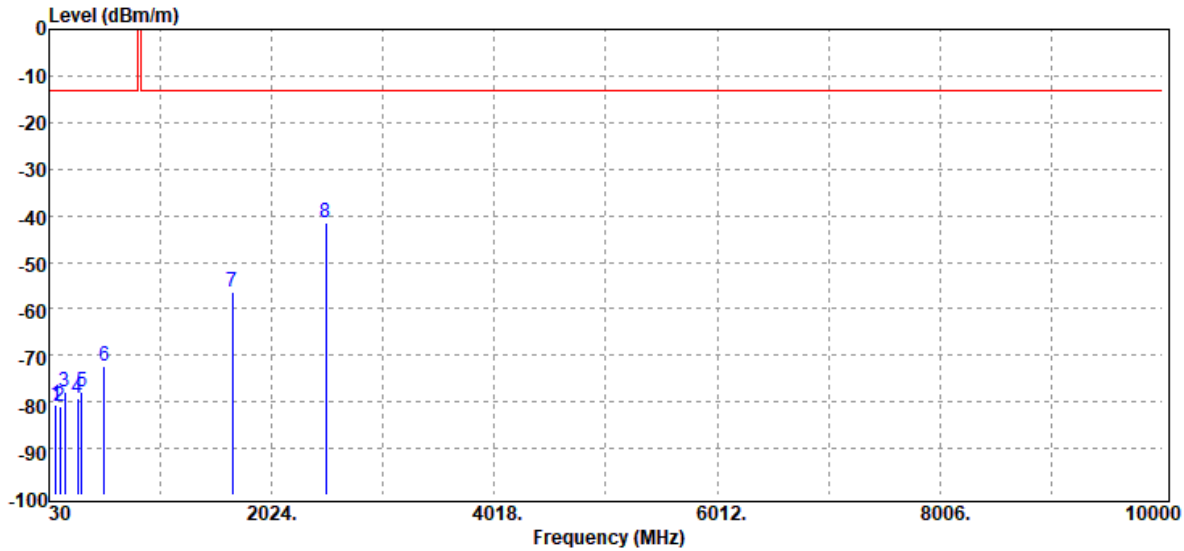
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
70.74	-80.32	-72.57	-6.93	-0.82	-13.00	-67.32
86.26	-80.92	-73.38	-6.66	-0.88	-13.00	-67.92
173.56	-77.77	-74.28	-2.24	-1.25	-13.00	-64.77
233.70	-78.07	-75.07	-1.55	-1.45	-13.00	-65.07
524.70	-72.39	-69.56	-0.83	-2.00	-13.00	-59.39
618.79	-70.84	-68.13	-0.67	-2.04	-13.00	-57.84
1658.00	-57.40	-63.44	9.92	-3.88	-13.00	-44.40
2487.00	-43.11	-48.97	10.65	-4.79	-13.00	-30.11

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Report Number :ER-2020-90015
Operation Mode :LTE B5
Test Mode :Tx CH Mid
EUT Pol :H Plane
Test Frequency :836.5 MHz

Test Site :SAC III Chamber
Test Date :2020-09-14
Temp./Humi. :25.5/63
Antenna Pol. :VERTICAL
Engineer :Nick



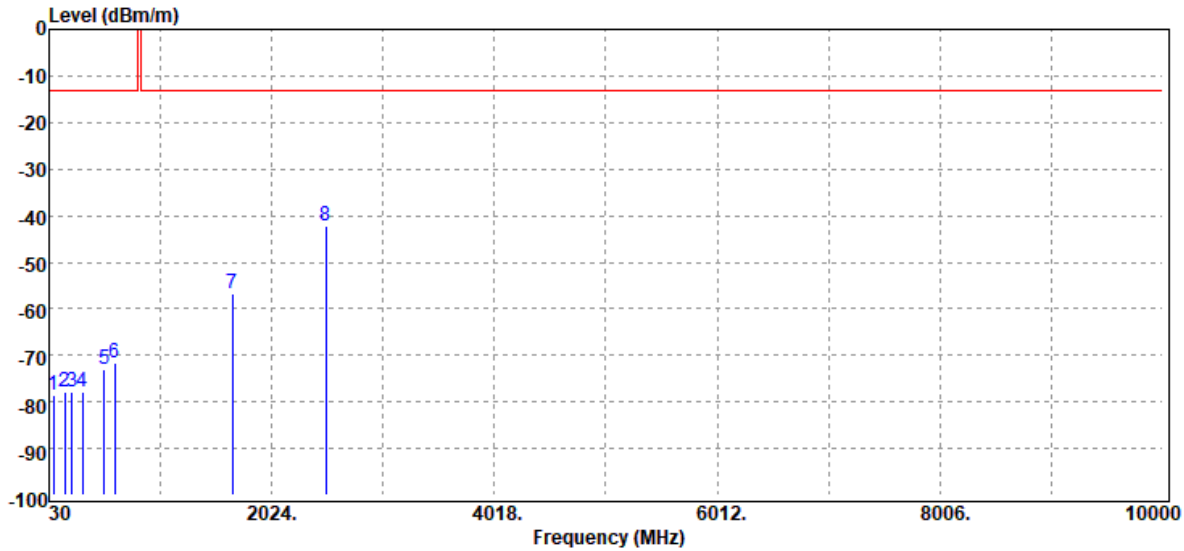
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
88.20	-80.55	-72.72	-6.94	-0.89	-13.00	-67.55
125.06	-80.89	-72.58	-7.29	-1.02	-13.00	-67.89
173.56	-77.97	-74.48	-2.24	-1.25	-13.00	-64.97
284.14	-79.35	-76.23	-1.54	-1.58	-13.00	-66.35
323.91	-77.76	-74.89	-1.20	-1.67	-13.00	-64.76
526.64	-72.27	-69.50	-0.83	-1.94	-13.00	-59.27
1673.00	-56.33	-62.38	9.95	-3.90	-13.00	-43.33
2509.50	-41.58	-47.50	10.74	-4.82	-13.00	-28.58

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Report Number :ER-2020-90015
Operation Mode :LTE B5
Test Mode :Tx CH Mid
EUT Pol :H Plane
Test Frequency :836.5 MHz

Test Site :SAC III Chamber
Test Date :2020-09-14
Temp./Humi. :25.5/63
Antenna Pol. :HORIZONTAL
Engineer :Nick



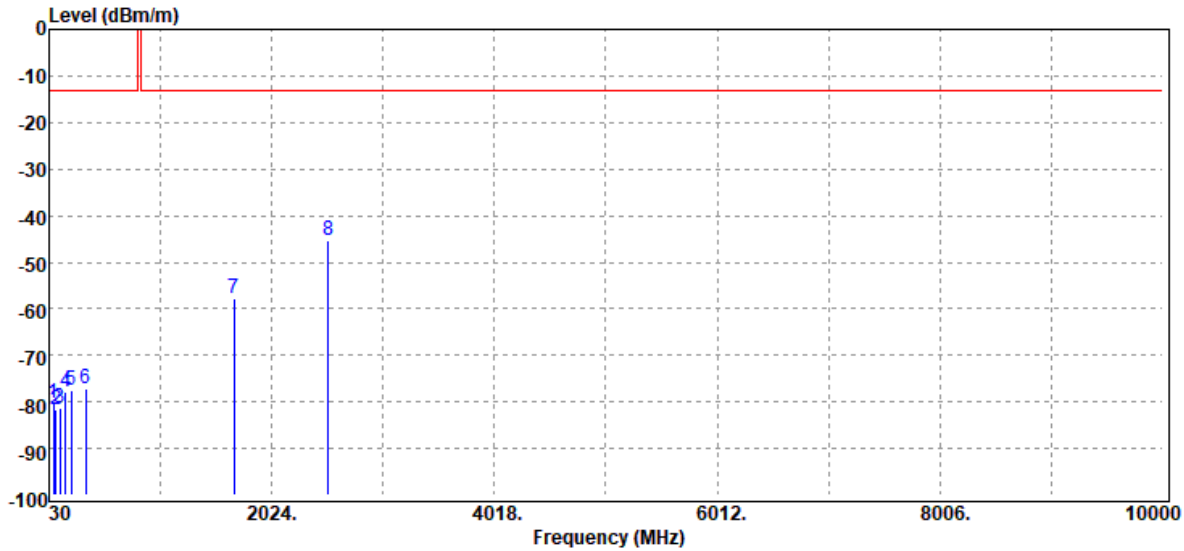
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
68.80	-78.71	-70.83	-7.07	-0.81	-13.00	-65.71
170.65	-77.95	-74.10	-2.58	-1.27	-13.00	-64.95
235.64	-77.85	-74.76	-1.63	-1.46	-13.00	-64.85
328.76	-77.73	-74.88	-1.16	-1.69	-13.00	-64.73
526.64	-73.12	-70.35	-0.83	-1.94	-13.00	-60.12
619.76	-71.58	-68.85	-0.68	-2.05	-13.00	-58.58
1673.00	-56.91	-62.96	9.95	-3.90	-13.00	-43.91
2509.50	-42.14	-48.06	10.74	-4.82	-13.00	-29.14

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Report Number :ER-2020-90015
Operation Mode :LTE B5
Test Mode :Tx CH High
EUT Pol :H Plane
Test Frequency :844 MHz

Test Site :SAC III Chamber
Test Date :2020-09-14
Temp./Humi. :25.5/63
Antenna Pol. :VERTICAL
Engineer :Nick



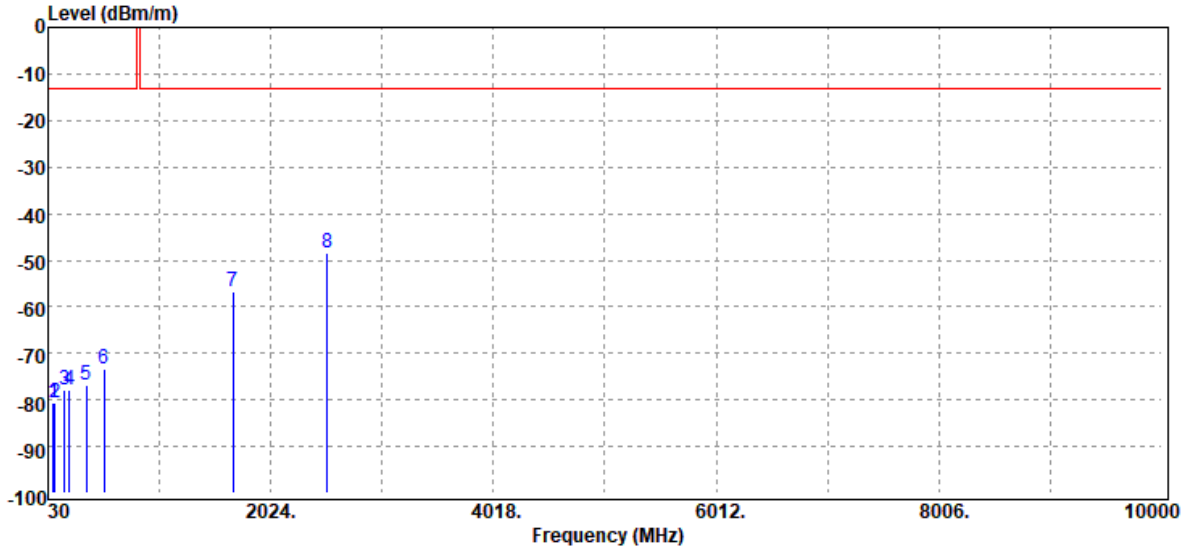
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
66.86	-80.39	-72.46	-7.14	-0.79	-13.00	-67.39
91.11	-81.81	-73.63	-7.27	-0.91	-13.00	-68.81
125.06	-81.42	-73.11	-7.29	-1.02	-13.00	-68.42
180.35	-77.88	-74.95	-1.70	-1.23	-13.00	-64.88
231.76	-77.62	-74.71	-1.47	-1.44	-13.00	-64.62
359.80	-77.05	-73.64	-1.70	-1.71	-13.00	-64.05
1688.00	-57.66	-63.72	9.98	-3.92	-13.00	-44.66
2532.00	-45.40	-51.39	10.83	-4.84	-13.00	-32.40

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Report Number :ER-2020-90015
Operation Mode :LTE B5
Test Mode :Tx CH High
EUT Pol :H Plane
Test Frequency :844 MHz

Test Site :SAC III Chamber
Test Date :2020-09-14
Temp./Humi. :25.5/63
Antenna Pol. :HORIZONTAL
Engineer :Nick



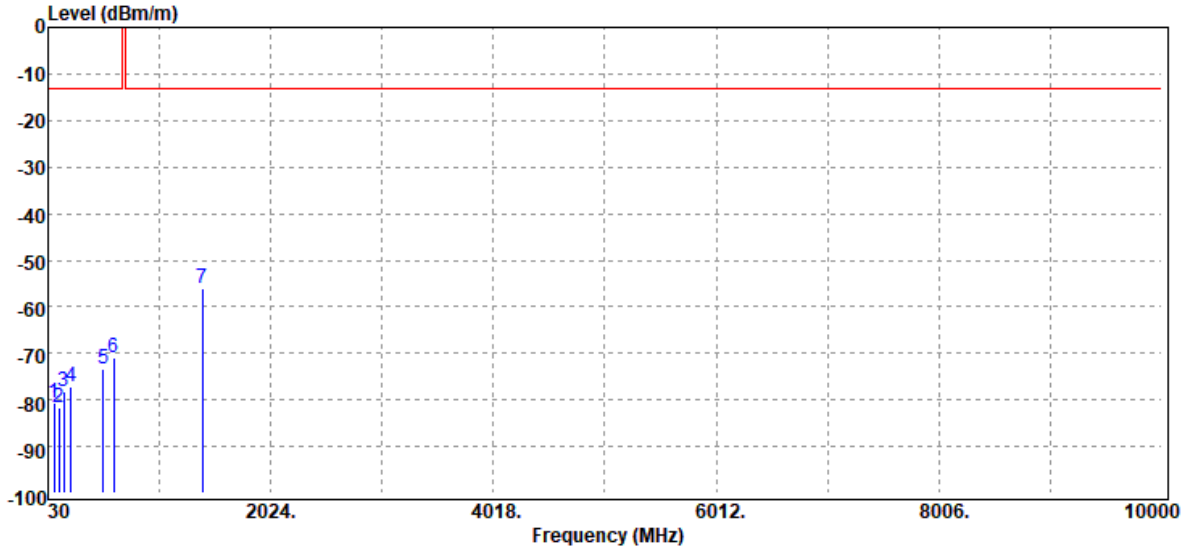
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
75.59	-80.53	-73.12	-6.58	-0.83	-13.00	-67.53
88.20	-80.56	-72.73	-6.94	-0.89	-13.00	-67.56
175.50	-77.92	-74.64	-2.04	-1.24	-13.00	-64.92
224.00	-77.82	-75.37	-1.06	-1.39	-13.00	-64.82
374.35	-76.76	-73.73	-1.26	-1.77	-13.00	-63.76
534.40	-73.39	-70.57	-0.95	-1.87	-13.00	-60.39
1688.00	-56.59	-62.65	9.98	-3.92	-13.00	-43.59
2532.00	-48.40	-54.39	10.83	-4.84	-13.00	-35.40

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Report Number :ER-2020-90015
 Operation Mode :LTE B12
 Test Mode :Tx CH Low
 EUT Pol :H Plane
 Test Frequency :704 MHz

Test Site :SAC III Chamber
 Test Date :2020-09-14
 Temp./Humi. :25.5/63
 Antenna Pol. :VERTICAL
 Engineer :Nick



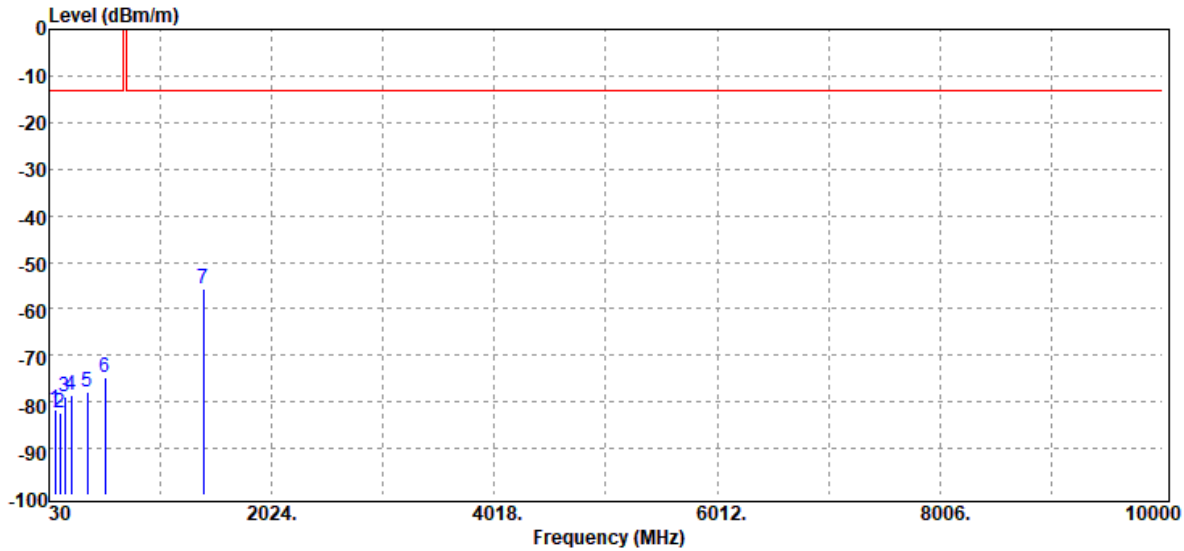
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
86.26	-80.80	-73.26	-6.66	-0.88	-13.00	-67.80
125.06	-81.50	-73.19	-7.29	-1.02	-13.00	-68.50
173.56	-78.33	-74.84	-2.24	-1.25	-13.00	-65.33
233.70	-77.31	-74.31	-1.55	-1.45	-13.00	-64.31
527.61	-73.22	-70.48	-0.83	-1.91	-13.00	-60.22
616.85	-71.07	-68.38	-0.66	-2.03	-13.00	-58.07
1408.00	-56.09	-60.46	7.95	-3.58	-13.00	-43.09

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Report Number :ER-2020-90015
 Operation Mode :LTE B12
 Test Mode :Tx CH Low
 EUT Pol :H Plane
 Test Frequency :704 MHz

Test Site :SAC III Chamber
 Test Date :2020-09-14
 Temp./Humi. :25.5/63
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



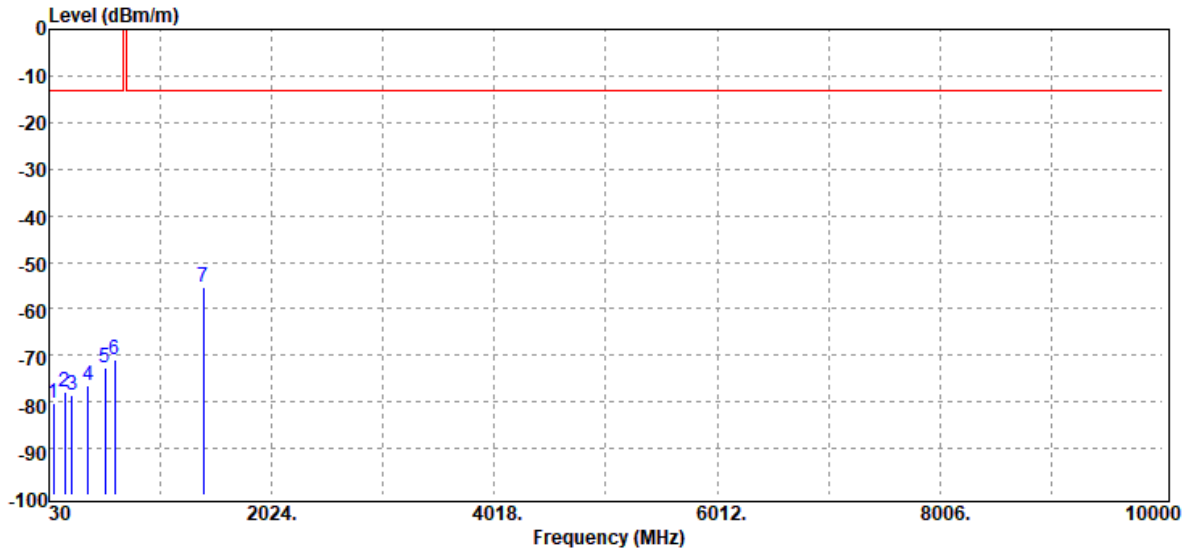
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
86.26	-81.60	-74.06	-6.66	-0.88	-13.00	-68.60
125.06	-82.23	-73.92	-7.29	-1.02	-13.00	-69.23
170.65	-78.92	-75.07	-2.58	-1.27	-13.00	-65.92
230.79	-78.50	-75.64	-1.43	-1.43	-13.00	-65.50
371.44	-77.83	-74.75	-1.33	-1.75	-13.00	-64.83
530.52	-74.60	-71.92	-0.85	-1.83	-13.00	-61.60
1408.00	-55.55	-59.92	7.95	-3.58	-13.00	-42.55

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Report Number :ER-2020-90015
Operation Mode :LTE B12
Test Mode :Tx CH Mid
EUT Pol :H Plane
Test Frequency :707.5 MHz

Test Site :SAC III Chamber
Test Date :2020-09-14
Temp./Humi. :25.5/63
Antenna Pol. :VERTICAL
Engineer :Nick



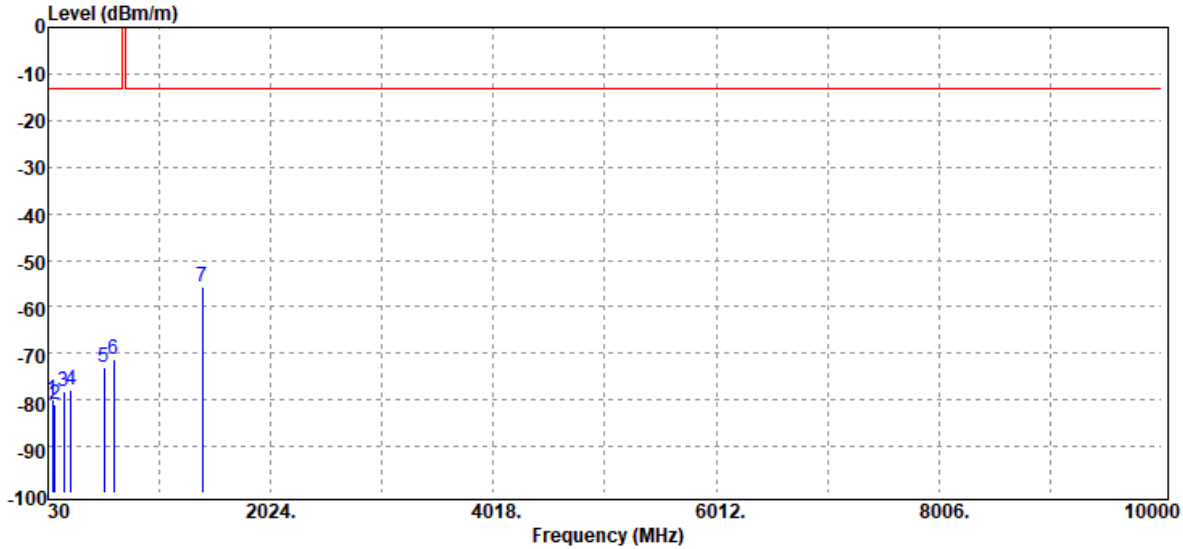
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
66.86	-80.30	-72.37	-7.14	-0.79	-13.00	-67.30
172.59	-77.88	-74.29	-2.33	-1.26	-13.00	-64.88
233.70	-78.64	-75.64	-1.55	-1.45	-13.00	-65.64
377.26	-76.40	-73.37	-1.24	-1.79	-13.00	-63.40
532.46	-72.75	-70.00	-0.90	-1.85	-13.00	-59.75
619.76	-70.97	-68.24	-0.68	-2.05	-13.00	-57.97
1415.00	-55.29	-59.69	7.99	-3.59	-13.00	-42.29

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Report Number :ER-2020-90015
Operation Mode :LTE B12
Test Mode :Tx CH Mid
EUT Pol :H Plane
Test Frequency :707.5 MHz

Test Site :SAC III Chamber
Test Date :2020-09-14
Temp./Humi. :25.5/63
Antenna Pol. :HORIZONTAL
Engineer :Nick



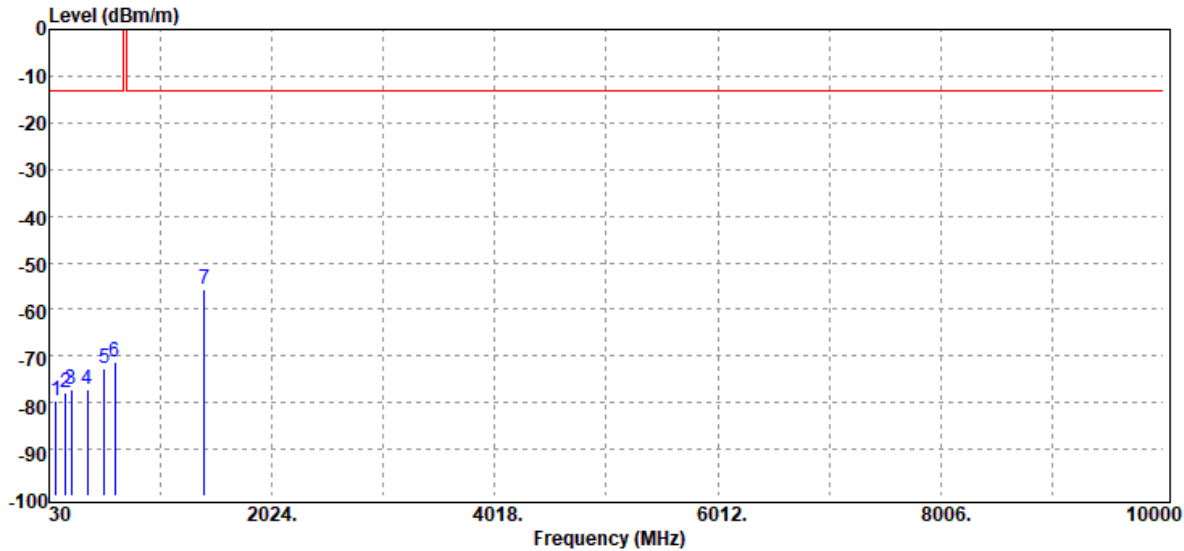
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
71.71	-80.10	-72.44	-6.84	-0.82	-13.00	-67.10
88.20	-80.80	-72.97	-6.94	-0.89	-13.00	-67.80
173.56	-78.19	-74.70	-2.24	-1.25	-13.00	-65.19
233.70	-77.69	-74.69	-1.55	-1.45	-13.00	-64.69
534.40	-72.93	-70.11	-0.95	-1.87	-13.00	-59.93
616.85	-71.33	-68.64	-0.66	-2.03	-13.00	-58.33
1415.00	-55.63	-60.03	7.99	-3.59	-13.00	-42.63

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Report Number :ER-2020-90015
Operation Mode :LTE B12
Test Mode :Tx CH High
EUT Pol :H Plane
Test Frequency :711 MHz

Test Site :SAC III Chamber
Test Date :2020-09-14
Temp./Humi. :25.5/63
Antenna Pol. :VERTICAL
Engineer :Nick

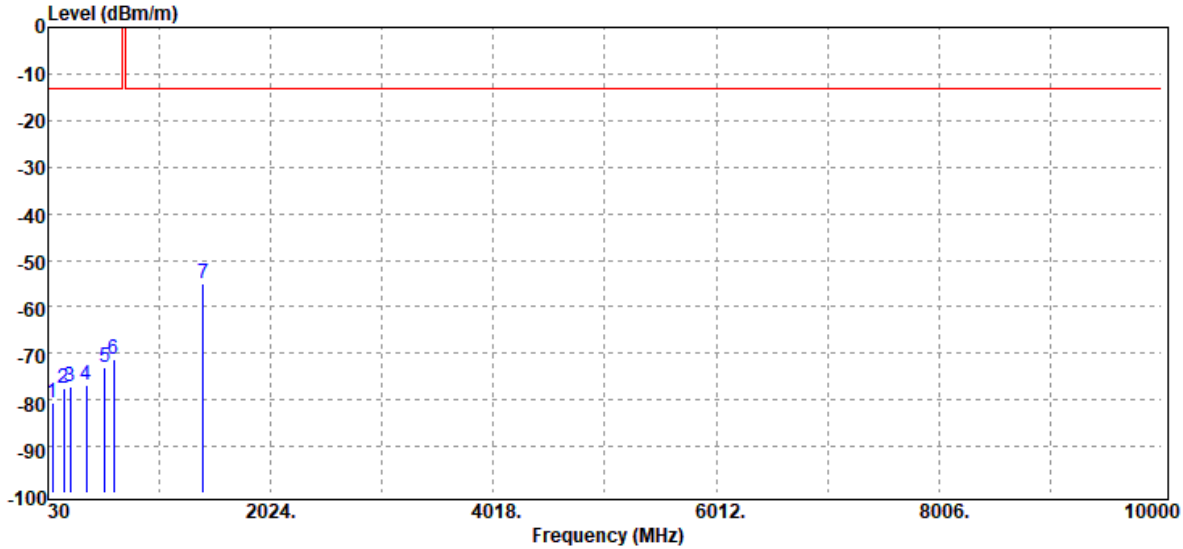


Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
88.20	-79.47	-71.64	-6.94	-0.89	-13.00	-66.47
175.50	-77.84	-74.56	-2.04	-1.24	-13.00	-64.84
231.76	-77.17	-74.26	-1.47	-1.44	-13.00	-64.17
374.35	-77.32	-74.29	-1.26	-1.77	-13.00	-64.32
527.61	-72.67	-69.93	-0.83	-1.91	-13.00	-59.67
614.91	-71.27	-68.61	-0.65	-2.01	-13.00	-58.27
1422.00	-55.84	-60.28	8.03	-3.59	-13.00	-42.84

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Report Number	:ER-2020-90015	Test Site	:SAC III Chamber
Operation Mode	:LTE B12	Test Date	:2020-09-14
Test Mode	:Tx CH High	Temp./Humi.	:25.5/63
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:711 MHz	Engineer	:Nick



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
71.71	-80.65	-72.99	-6.84	-0.82	-13.00	-67.65
170.65	-77.45	-73.60	-2.58	-1.27	-13.00	-64.45
231.76	-77.09	-74.18	-1.47	-1.44	-13.00	-64.09
369.50	-76.82	-73.70	-1.38	-1.74	-13.00	-63.82
536.34	-72.85	-69.97	-0.99	-1.89	-13.00	-59.85
618.79	-71.25	-68.54	-0.67	-2.04	-13.00	-58.25
1422.00	-55.03	-59.47	8.03	-3.59	-13.00	-42.03

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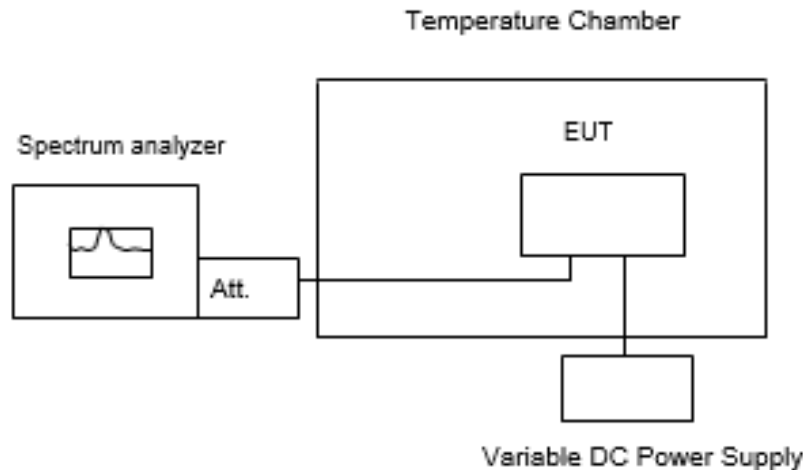
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10 FREQUENCY STABILITY MEASUREMENT

10.1 Standard Applicabl

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

10.2 Test Set-up



Note: Measurement setup for testing on Antenna connector

10.3 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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10.4 Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	Apr. 21st, 2020	Apr. 20th, 2021
DC Power Supply	Agilent	E3640A	MY40000811	Dec. 23rd, 2019	Dec. 22nd, 2020
Temperature Chamber	TERCHY	MHG-120L F	911009	May 20th, 2020	May 19th, 2021
Radio Communication Analyzer	Anritsu	MT8815B	6200711454	Apr. 1st, 2020	Mar. 31st, 2021
Attenuator	Mini-Circuit	BW-S10W2 +	2	Jan. 2nd, 2020	Jan. 1st, 2021
DC Block	Mini-Circuits	BLK-18-S+	1	Jan. 2nd, 2020	Jan. 1st, 2021
Splitter	RF-LAMBAD	RFLT2W1G 18G	11-JSPF412-018	Jan. 2nd, 2020	Jan. 1st, 2021

10.5 Measurement Result

Note: The battery is rated 3.85Vdc.

GPRS 850 Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
4.29	20	836.600009	9	2091
3.85	20	836.600006	6	2091
3.51	20	836.599995	-5	2091
3.4 (End point)	20	836.599992	-8	2091
FREQUENCY ERROR vs. Temp.				
3.85	50	836.599993	-7	2091
3.85	40	836.600004	4	2091
3.85	30	836.600009	9	2091
3.85	20	836.600002	2	2091
3.85	10	836.599994	-6	2091
3.85	0	836.599999	-10	2091
3.85	-10	836.600004	4	2091
3.85	-20	836.600005	5	2091
3.85	-30	836.599997	-3	2091

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GPRS 1900 Mid Channel		1880	MHz	
Limit: +/- 2.5 ppm				
Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
4.29	20	1880.000008	8	4700
3.85	20	1879.999991	-9	4700
3.51	20	1880.000007	7	4700
3.4 (End point)	20	1880.000005	5	4700
FREQUENCY ERROR vs. Temp.				
3.85	50	1879.999994	-6	4700
3.85	40	1880.000005	5	4700
3.85	30	1880.000003	3	4700
3.85	20	1879.999993	-7	4700
3.85	10	1879.99999	-10	4700
3.85	0	1880.000008	8	4700
3.85	-10	1880.000006	6	4700
3.85	-20	1879.999998	-2	4700
3.85	-30	1880.000008	8	4700

WCDMA V Mid Channel		836.6	MHz	
Limit: +/- 2.5 ppm				
Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
4.29	20	836.600006	6	2091
3.85	20	836.59999	-10	2091
3.51	20	836.599992	-8	2091
3.4 (End point)	20	836.600002	2	2091
FREQUENCY ERROR vs. Temp.				
3.85	50	836.600007	7	2091
3.85	40	836.599992	-8	2091
3.85	30	836.600006	6	2091
3.85	20	836.599997	-3	2091
3.85	10	836.599992	-8	2091
3.85	0	836.600002	2	2091
3.85	-10	836.59999	-10	2091
3.85	-20	836.599995	-5	2091
3.85	-30	836.600003	3	2091

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Reference Freq.:		LTE B5 Mid Channel		836.5	MHz 10M QPSK CH 20525
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)	
Freq. ERROR vs. VOLTAGE					
4.29	25	836.500009	9	2091	
3.85	25	836.500006	6	2091	
3.51	25	836.499993	-7	2091	
3.4 (End Point)	25	836.500003	3	2091	
Freq. ERROR vs. Temp.					
3.85	-30	836.499994	-6	2091	
3.85	-20	836.499991	-9	2091	
3.85	-10	836.499992	-8	2091	
3.85	0	836.500003	3	2091	
3.85	10	836.500009	9	2091	
3.85	20	836.500005	5	2091	
3.85	30	836.499993	-7	2091	
3.85	40	836.499996	-4	2091	
3.85	50	836.499990	-10	2091	

Reference Freq.:		LTE B12 Mid Channel		707.5	MHz 10M QPSK CH 23095
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)	
Freq. ERROR vs. VOLTAGE					
4.29	25	707.500007	7	1769	
3.85	25	707.499990	-10	1769	
3.51	25	707.499994	-6	1769	
3.4 (End Point)	25	707.500005	5	1769	
Freq. ERROR vs. Temp.					
3.85	-30	707.499990	-10	1769	
3.85	-20	707.499996	-4	1769	
3.85	-10	707.500007	7	1769	
3.85	0	707.500005	5	1769	
3.85	10	707.499997	-3	1769	
3.85	20	707.500002	2	1769	
3.85	30	707.499992	-8	1769	
3.85	40	707.500004	4	1769	
3.85	50	707.500007	7	1769	

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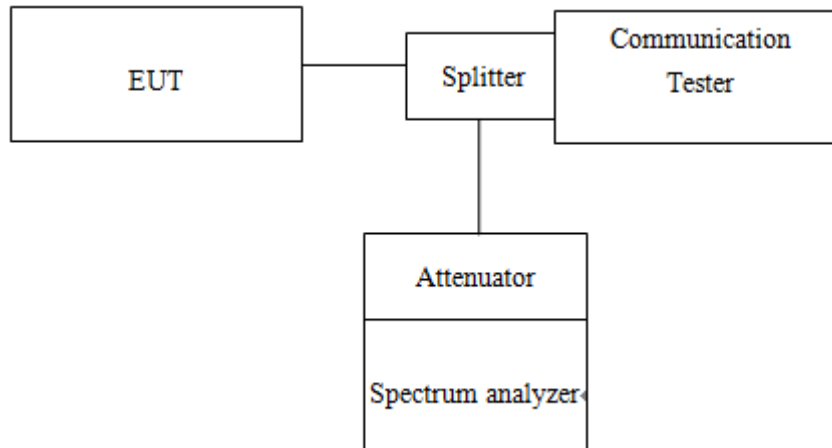
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11 PEAK TO AVERAGE RATIO

11.1 Standard Applicable

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

11.2 Test SET-UP



11.3 Measurement Procedure

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

11.4 Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	Apr. 21st, 2020	Apr. 20th, 2021
DC Power Supply	Agilent	E3640A	MY40000811	Dec. 23rd, 2019	Dec. 22nd, 2020
Temperature Chamber	TERCHY	MHG-120L F	911009	May 20th, 2020	May 19th, 2021
Radio Communication Analyzer	Anritsu	MT8815B	6200711454	Apr. 1st, 2020	Mar. 31st, 2021
Attenuator	Mini-Circuit	BW-S10W2 +	2	Jan. 2nd, 2020	Jan. 1st, 2021
DC Block	Mini-Circuits	BLK-18-S+	1	Jan. 2nd, 2020	Jan. 1st, 2021
Splitter	RF-LAMBAD	RFLT2W1G 18G	11-JSPF412- 018	Jan. 2nd, 2020	Jan. 1st, 2021

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11.5 Measurement Result

Freq. (MHz)	CH	Peak-to-Average	
		GSM 850	GPRS 850
824.2	128	10.08	9.67
836.6	190	9.75	9.52
848.8	251	9.88	10.38

Freq. (MHz)	CH	Peak-to-Average	
		GSM 1900	GPRS 1900
1850.2	512	10.04	10.04
1880	661	9.39	9.44
1909.8	810	10.03	9.69

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA V	HSDPA V	HSUPA V
826.4	4132	2.91	3.96	4.10
836.6	4183	2.86	3.81	4.03
846.6	4233	2.85	3.79	3.94

LTE BAND 5							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
824.7	20407	6.83	13	825.5	20415	6.11	13
836.5	20525	6.70	13	836.5	20525	5.76	13
848.3	20643	6.72	13	847.5	20635	6.05	13

LTE BAND 5							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
826.5	20425	6.13	13	829.0	20450	5.87	13
836.5	20525	5.68	13	836.5	20525	5.81	13
846.5	20625	6.08	13	844.0	20600	6.11	13

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LTE BAND 12							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
699.7	23017	6.76	13	700.5	23025	6.54	13
707.5	23095	6.67	13	707.5	23095	6.55	13
715.3	23173	6.66	13	714.5	23165	6.51	13

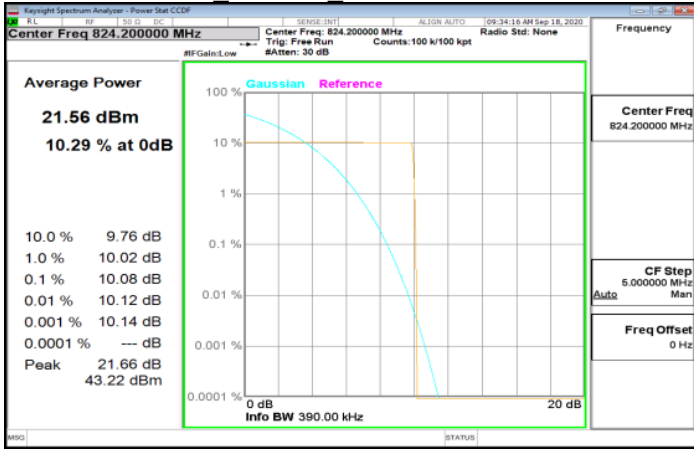
LTE BAND 12							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
701.5	23035	6.60	13	704.0	23060	6.62	13
707.5	23095	6.68	13	707.5	23095	6.64	13
713.5	23155	6.54	13	711.0	23130	6.48	13

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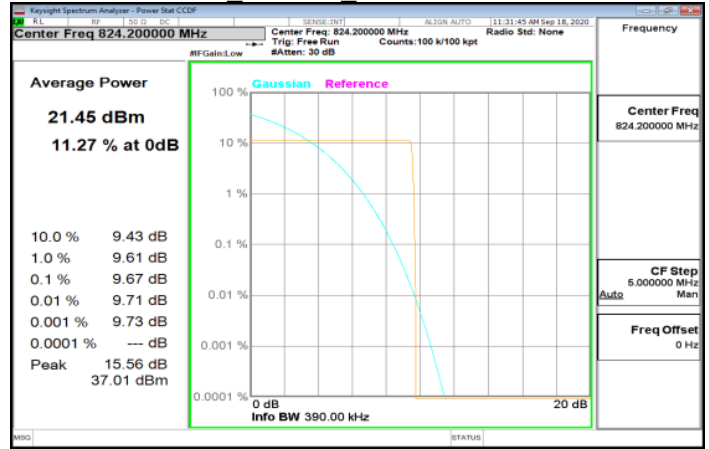
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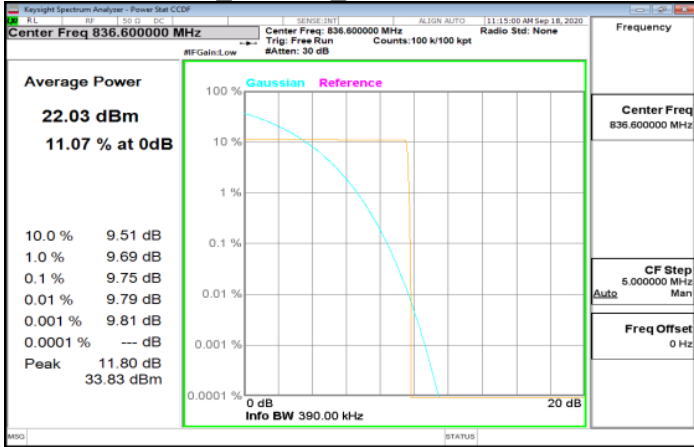
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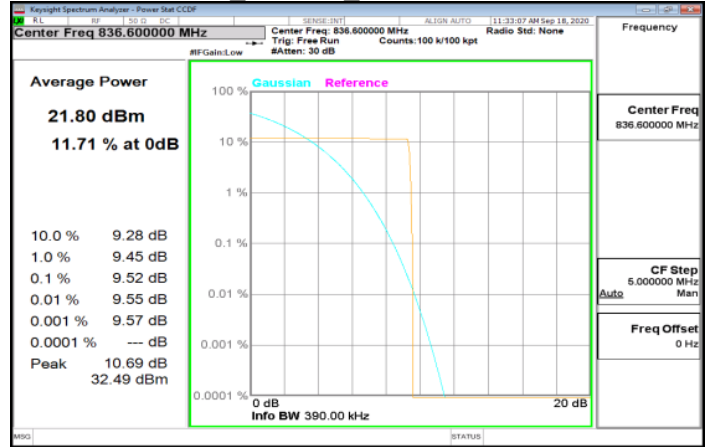
GPRS 850MHz LowCH128-824.2



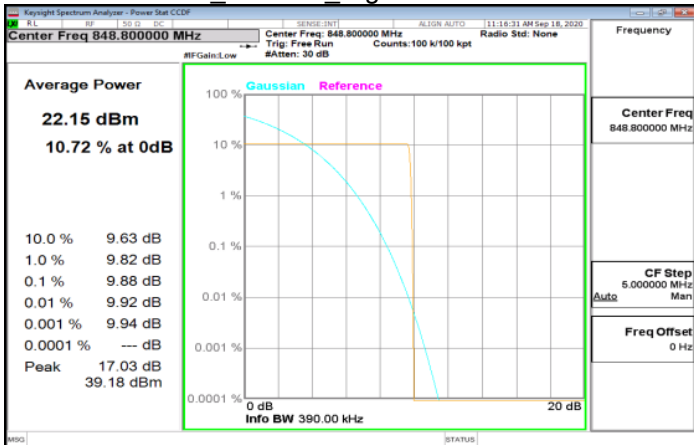
GSM 850MHz MidCH190-836.6



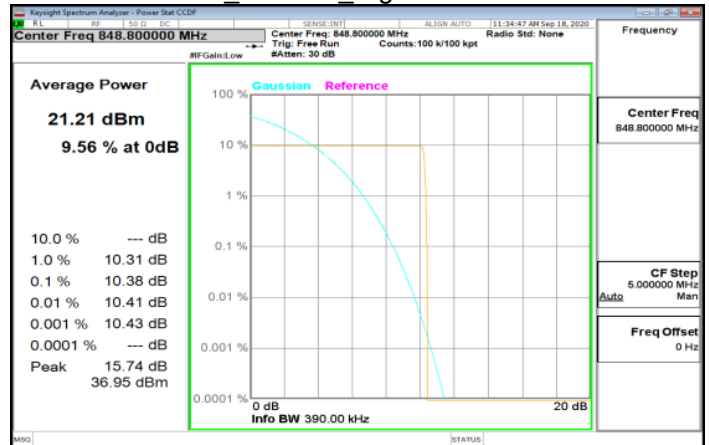
GPRS 850MHz MidCH190-836.6



GSM 850MHz HighCH251-848.8



GPRS 850MHz HighCH251-848.8



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