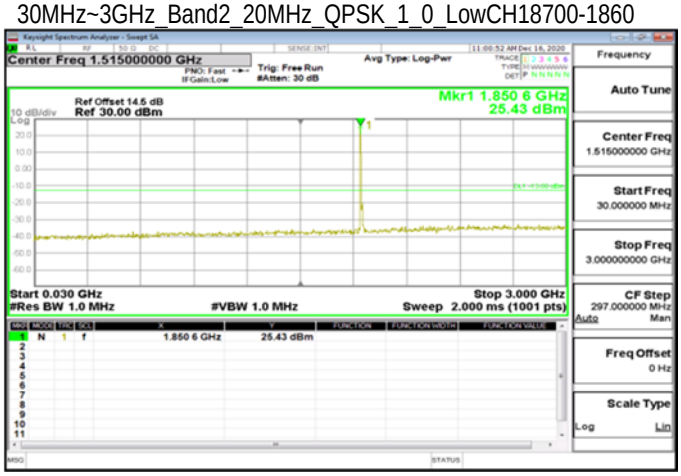
30MHz~3GHz_Band2_20MHz_QPSK_1_0_LowCH18700-1860



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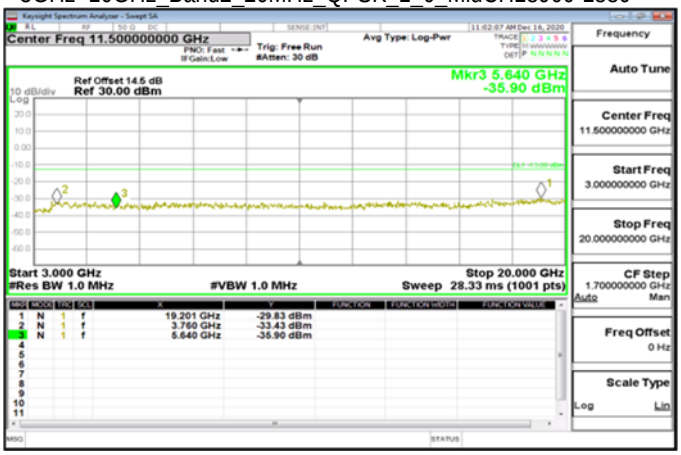

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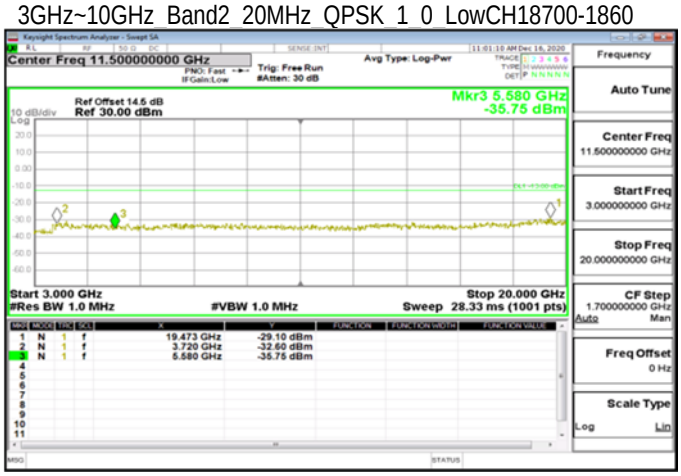

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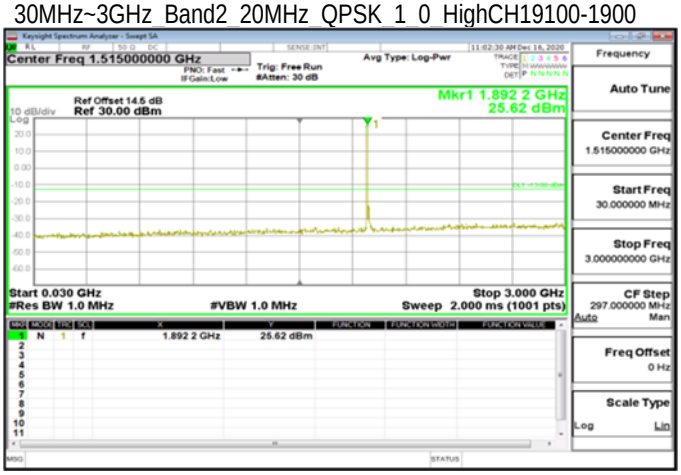

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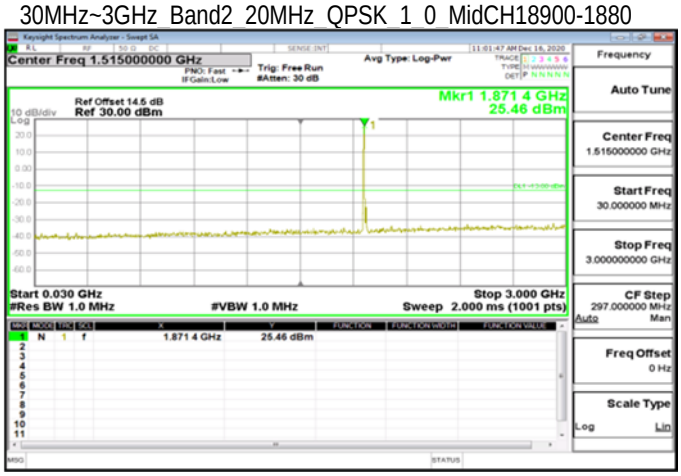
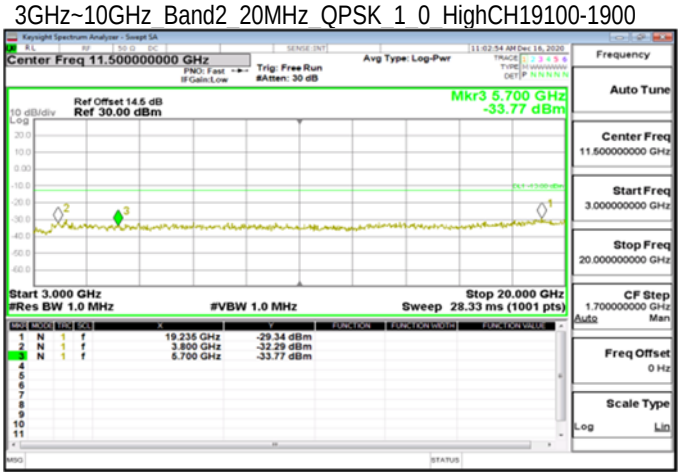


3GHz~10GHz_Band2_20MHz_QPSK_1_0_HighCH19100-1900



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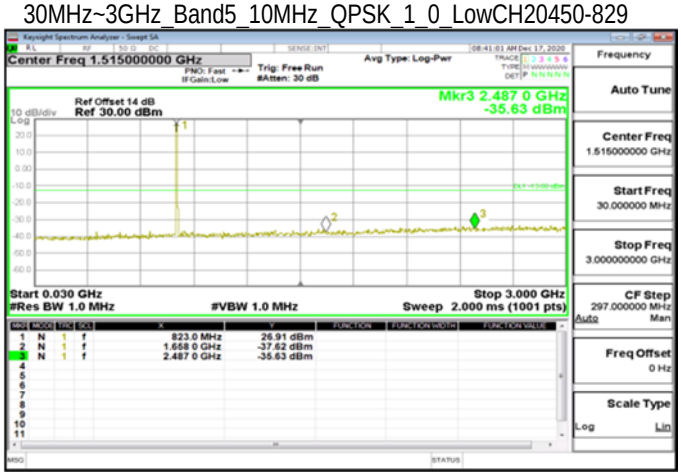
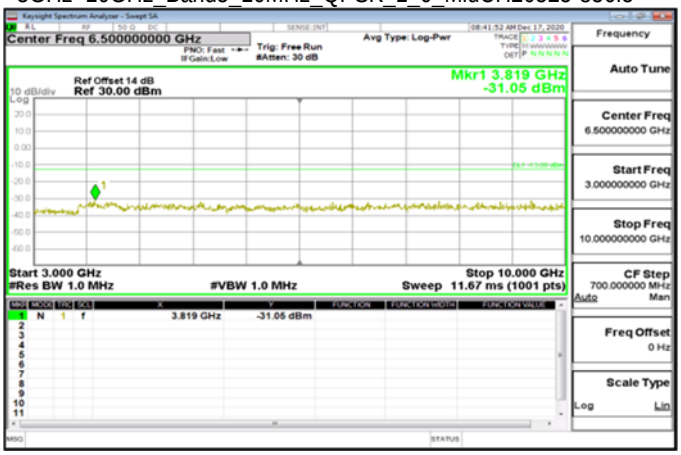
30MHz~3GHz_Band5_10MHz_QPSK_1_0_LowCH20450-829



3GHz~10GHz_Band5_10MHz_QPSK_1_0_MidCH20525-836.5



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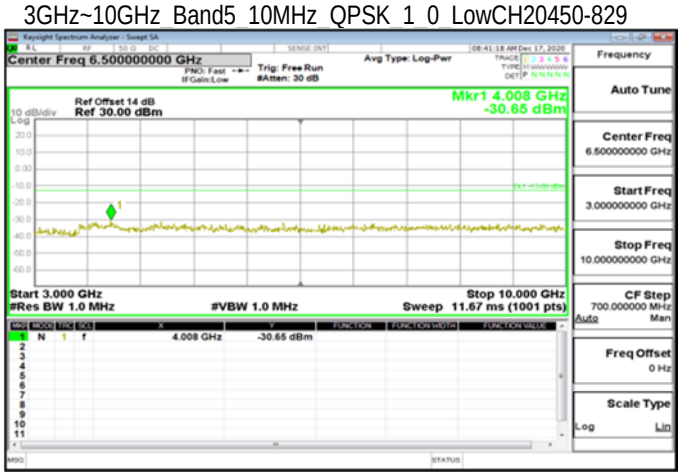

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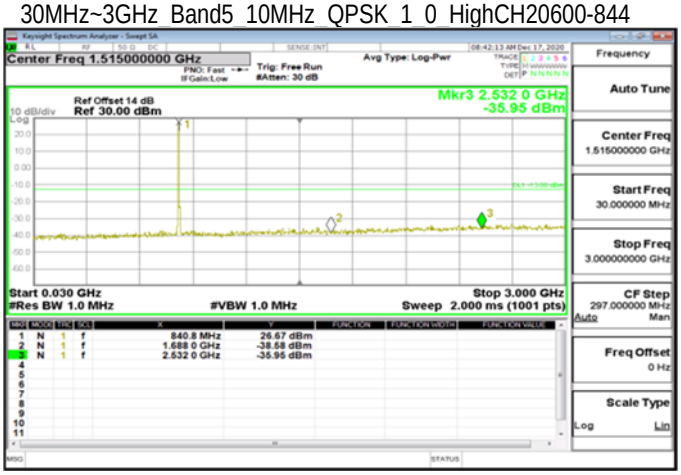

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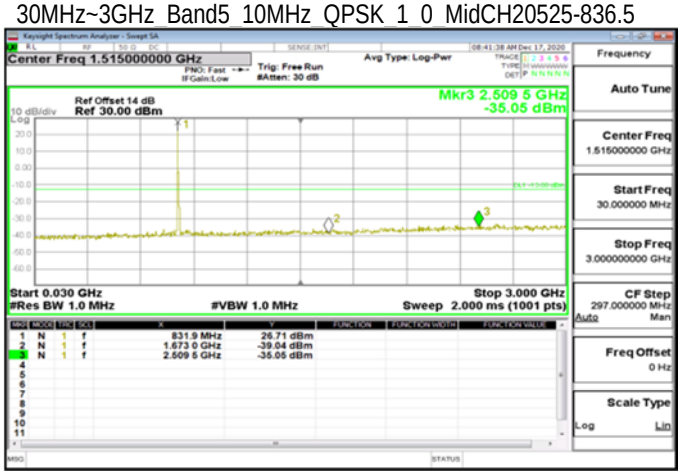

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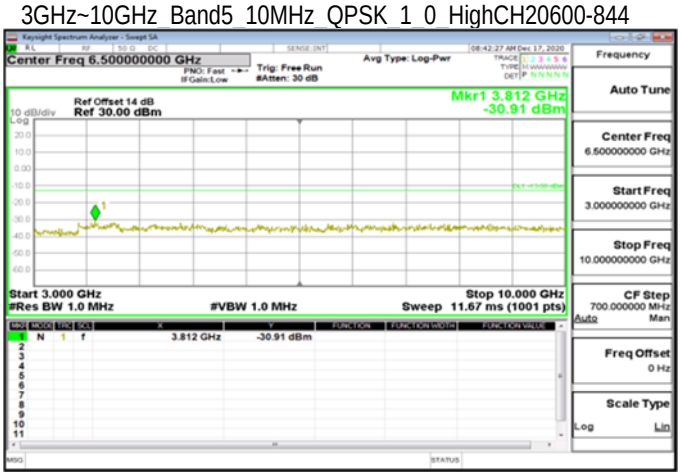

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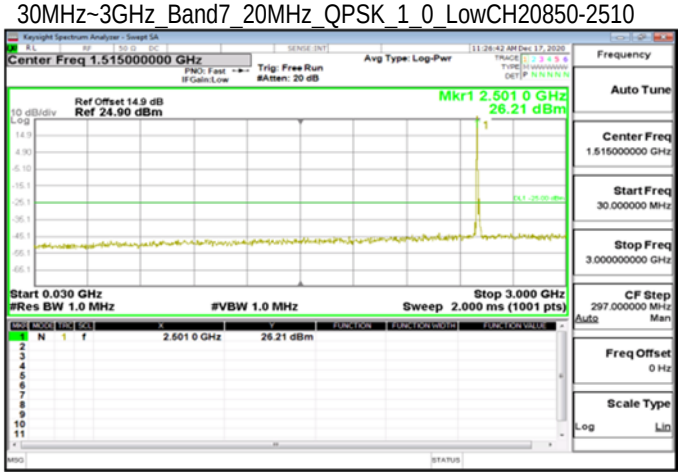
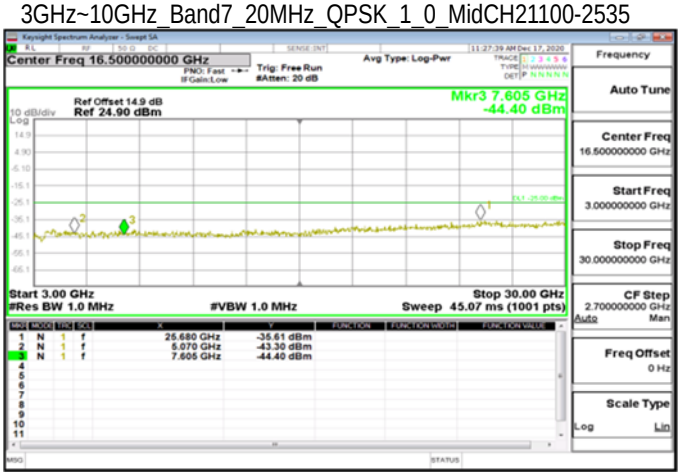
30MHz~3GHz_Band7_20MHz_QPSK_1_0_LowCH20850-2510



3GHz~10GHz_Band7_20MHz_QPSK_1_0_MidCH21100-2535



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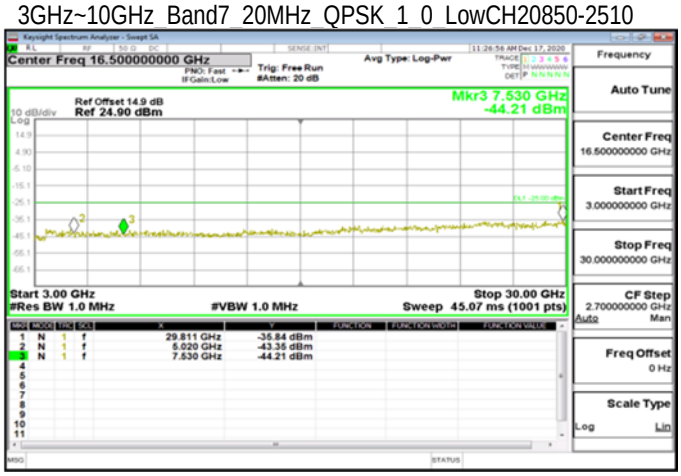
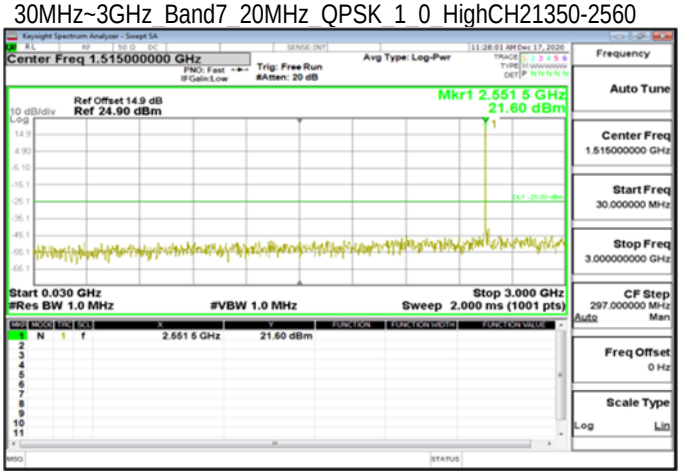
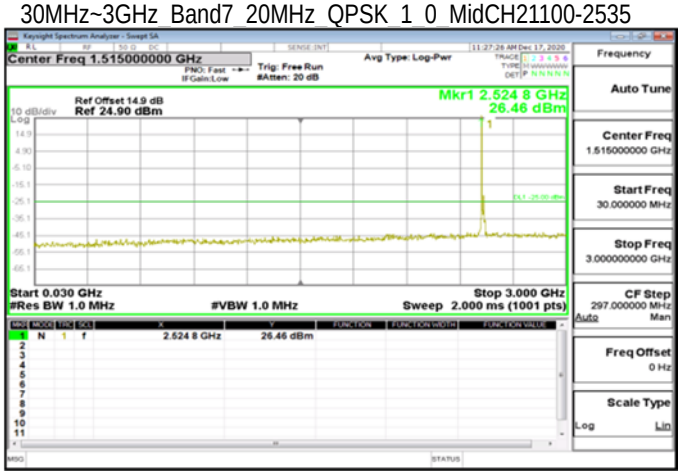


30MHz~3GHz_Band7_20MHz_QPSK_1_0_HighCH21350-2560



30MHz~3GHz_Band7_20MHz_QPSK_1_0_MidCH21100-2535



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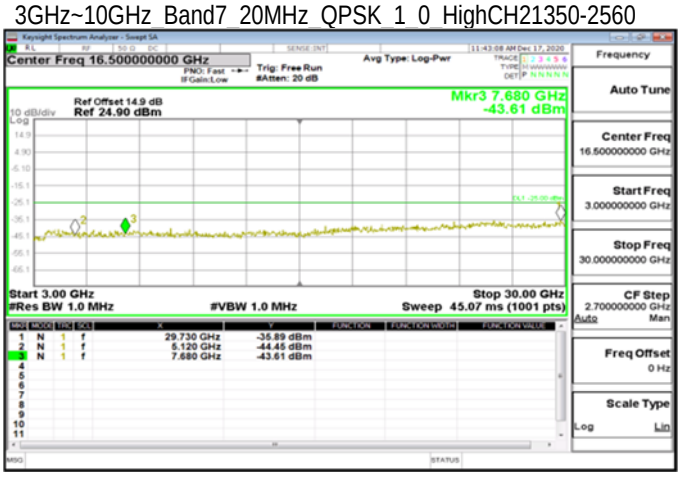

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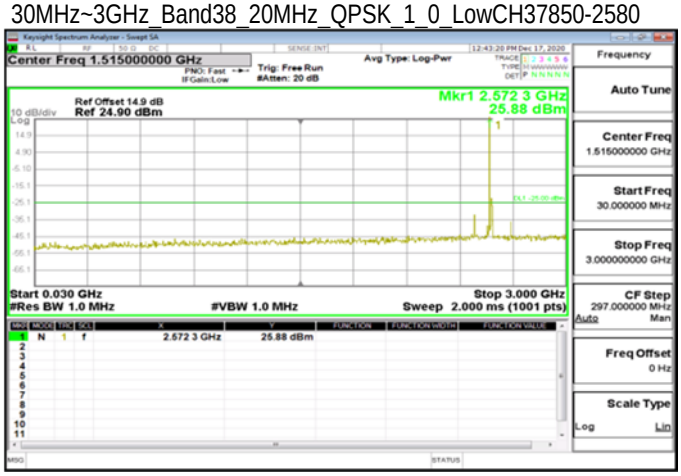
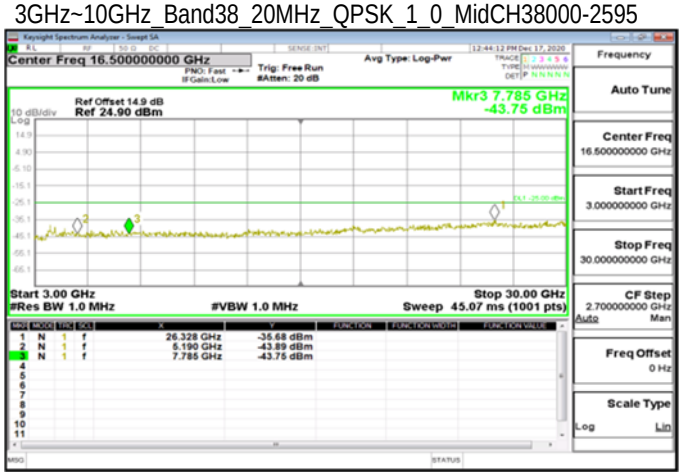
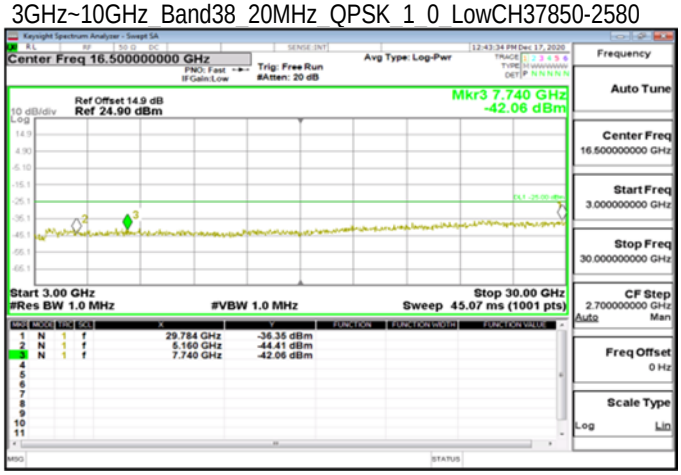
30MHz~3GHz_Band38_20MHz_QPSK_1_0_LowCH37850-2580



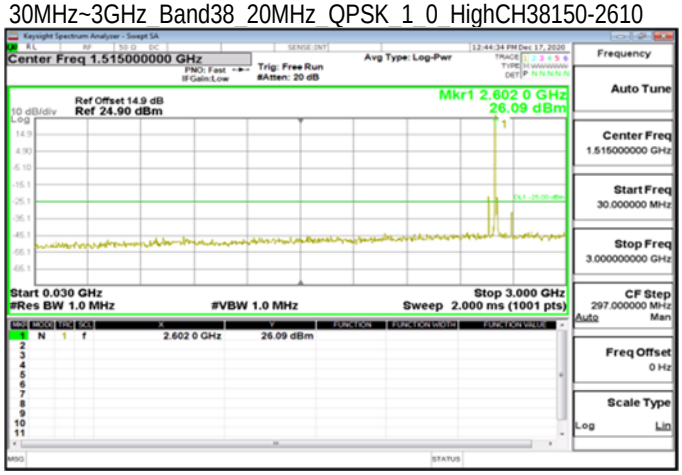
3GHz~10GHz_Band38_20MHz_QPSK_1_0_MidCH38000-2595



3GHz~10GHz_Band38_20MHz_QPSK_1_0_LowCH37850-2580



30MHz~3GHz_Band38_20MHz_QPSK_1_0_HighCH38150-2610



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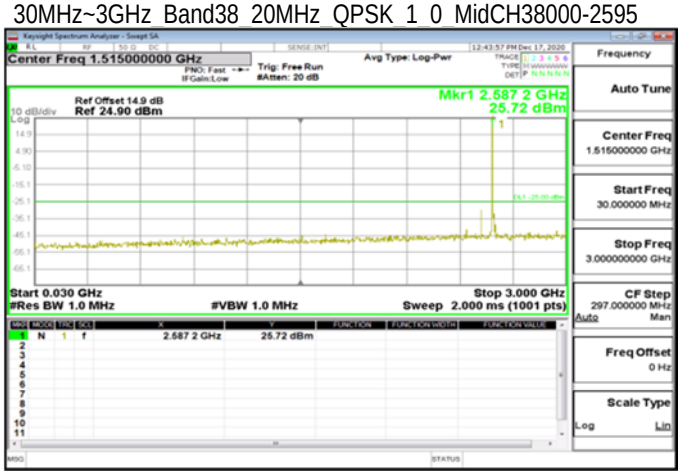

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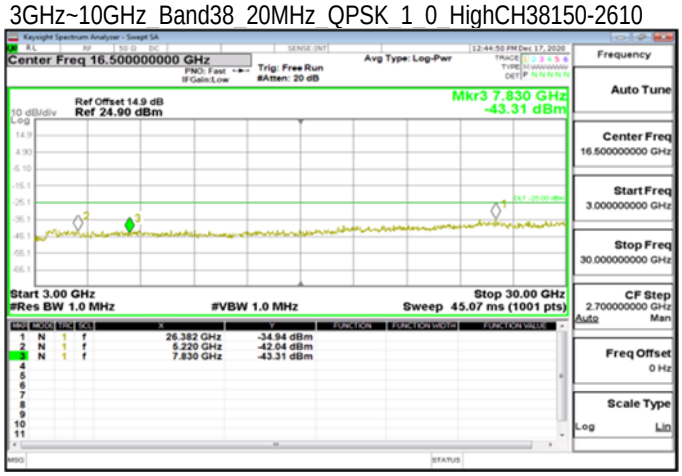

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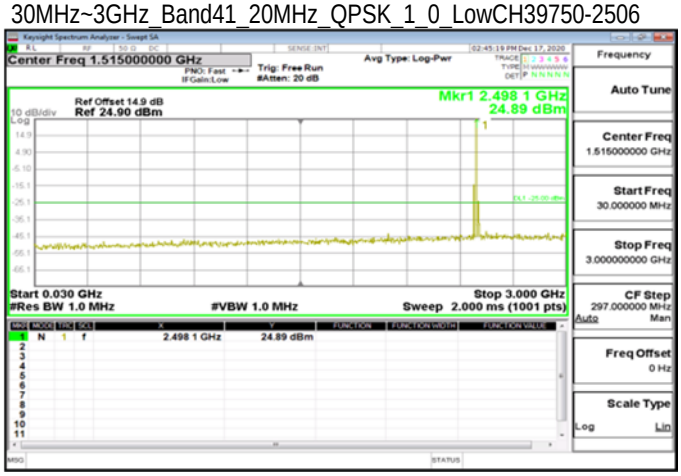
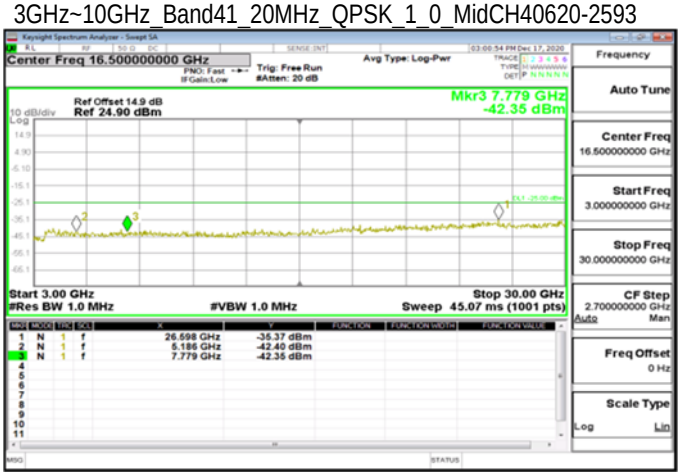
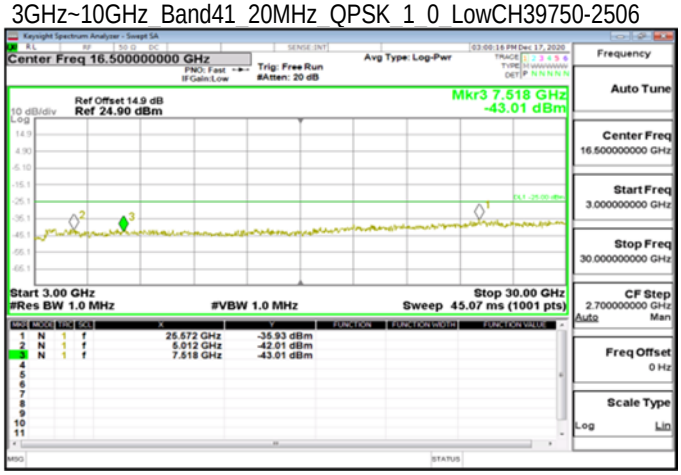
30MHz~3GHz_Band41_20MHz_QPSK_1_0_LowCH39750-2506



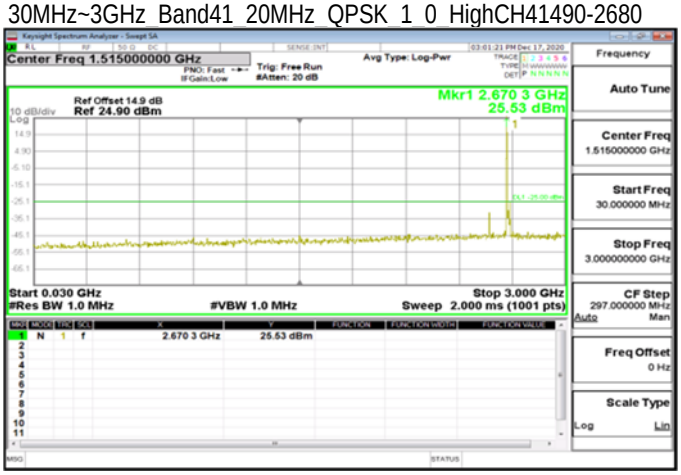
3GHz~10GHz_Band41_20MHz_QPSK_1_0_MidCH40620-2593



3GHz~10GHz_Band41_20MHz_QPSK_1_0_LowCH39750-2506



30MHz~3GHz_Band41_20MHz_QPSK_1_0_HighCH41490-2680



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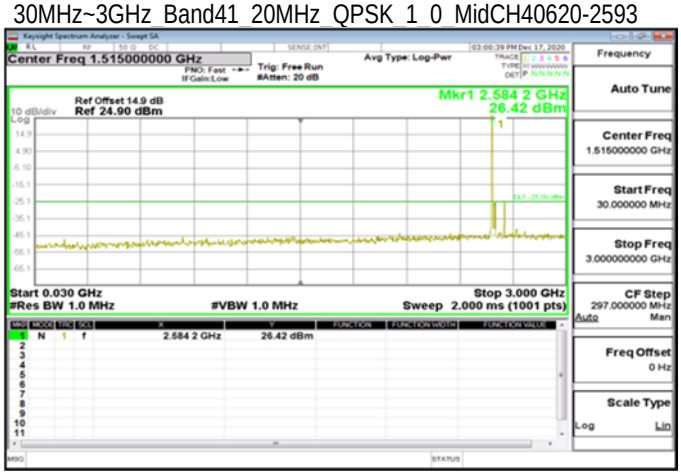

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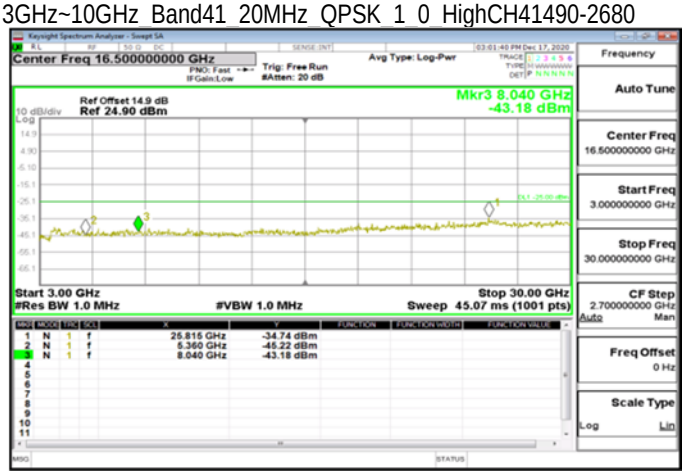

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9 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

9.1 Standard Applicable

According to FCC §2.1053,

FCC §22.917(a), §24.238(a), §27.53(m)(2)

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(m) (4) (6)

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 nstrumentation 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	$43 + 10 \log_{10}(p)$ 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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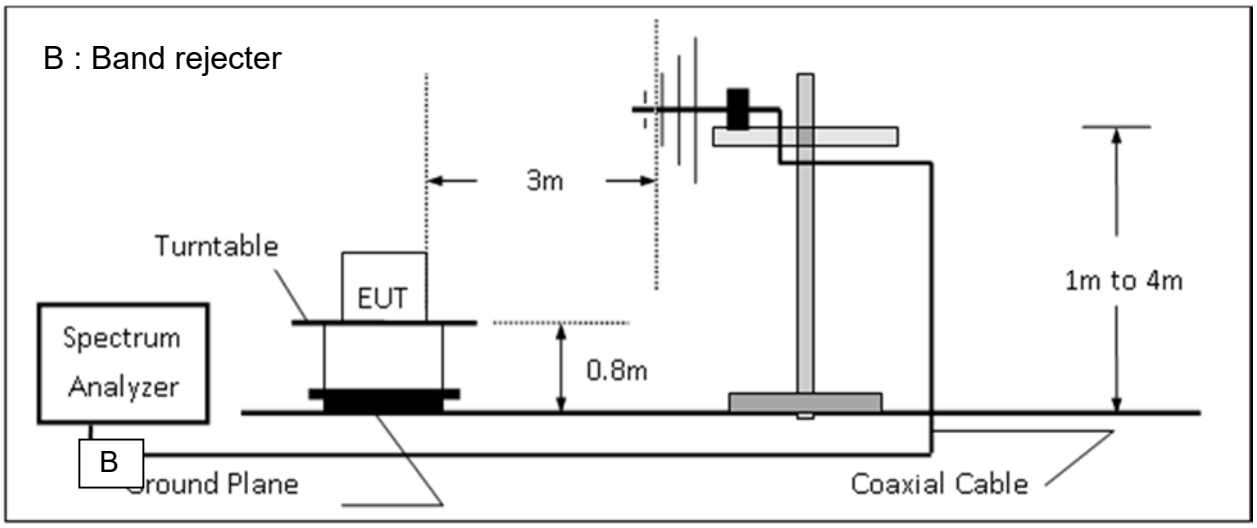
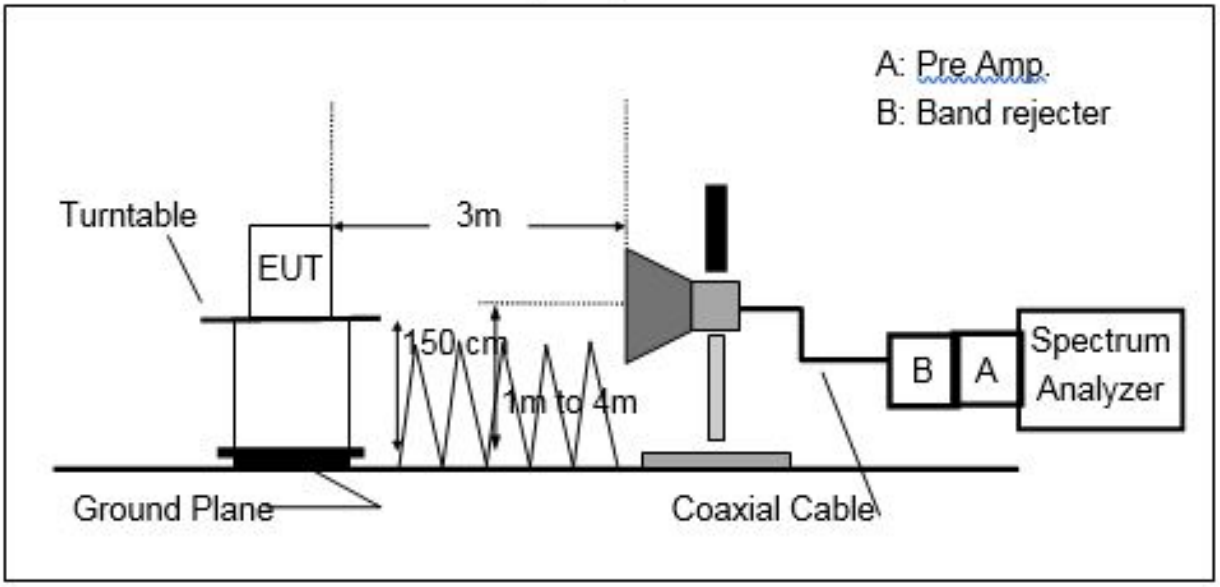
9.2 EUT Setup

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.

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

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + 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.**
Horn Antenna	Schwarzbeck	BBHA9170	184	12/11/2020	12/10/2021
Horn Antenna	Schwarzbeck	BBHA9120D	D803	12/17/2020	12/16/2021
Bi-log Antenna	TESEO	CBL 6112D	35242 & AT-N0555	01/13/2020	01/12/2021
Loop Antenna	ETS.LIND-GREN	6502	148045	10/19/2020	10/18/2021
Spectrum Analyzer	Agilent	E4446A	MY51100003	10/29/2020	10/28/2021
EMI Test Receiver	R&S	ESCI 7	100759	07/13/2020	07/12/2021
Radio Communication Analyer	Anritsu	MT8815B	6200711454	04/01/2020	03/31/2021
Pre-Amplifier	EMC Instru-ments	EMC184045B	980135	01/02/2020	01/01/2021
Pre-Amplifier	EMC Instru-ments	EMC051825	980152	01/02/2020	01/01/2021
Pre-Amplifier	HP	8447D	2944A09469	01/02/2020	01/01/2021
Filter 800-1000	Micro-Tronics	EWT	M1	01/02/2020	01/01/2021
Filter 1700-2000	Micro-Tronics	EWT	M3	01/02/2020	01/01/2021
1GHz High Pass Filter	Micro-Tronics	HPM50108	32	01/02/2020	01/01/2021
2GHz High Pass Filter	Micro-Tronics	HPM50110	36	01/02/2020	01/01/2021
Coaxial Cable	Huber Suhner	succoflex 102	MY2622/2	01/02/2020	01/01/2021
Coaxial Cable	Huber Suhner	succoflex 104A	800086/4a	01/02/2020	01/01/2021
Coaxial Cable	Huber Suhner	EMC 104-SM-SM-2000	160123	01/02/2020	01/01/2021
Radio Communication Analyer	Anritsu	MT8821C	6261786084	01/18/2020	01/17/2021
High Pass Filter	WI	WHKX4.0/18G-10SS	WHKX4.0/18G-10SS	01/02/2020	01/01/2021

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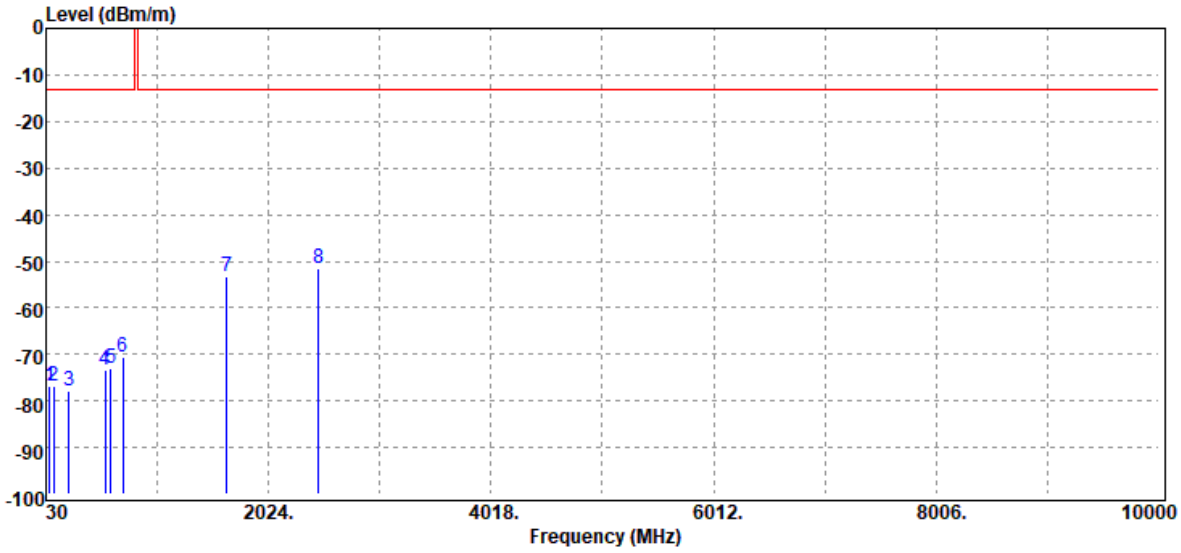
9.5 Measurement Result:

Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:GSM 850	Test Date	:2020-12-22
Test Mode	:Tx CH Low	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:824.2 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
65.89	-76.95	-63.07	-13.09	-0.79	-13.00	-63.95
100.81	-76.80	-69.65	-6.20	-0.95	-13.00	-63.80
238.55	-77.72	-74.53	-1.72	-1.47	-13.00	-64.72
556.71	-73.39	-69.78	-1.35	-2.26	-13.00	-60.39
613.94	-73.18	-69.32	-1.86	-2.00	-13.00	-60.18
720.64	-70.44	-66.58	-1.21	-2.65	-13.00	-57.44
1648.40	-53.44	-59.37	9.79	-3.86	-13.00	-40.44
2472.60	-51.41	-57.42	10.78	-4.77	-13.00	-38.41

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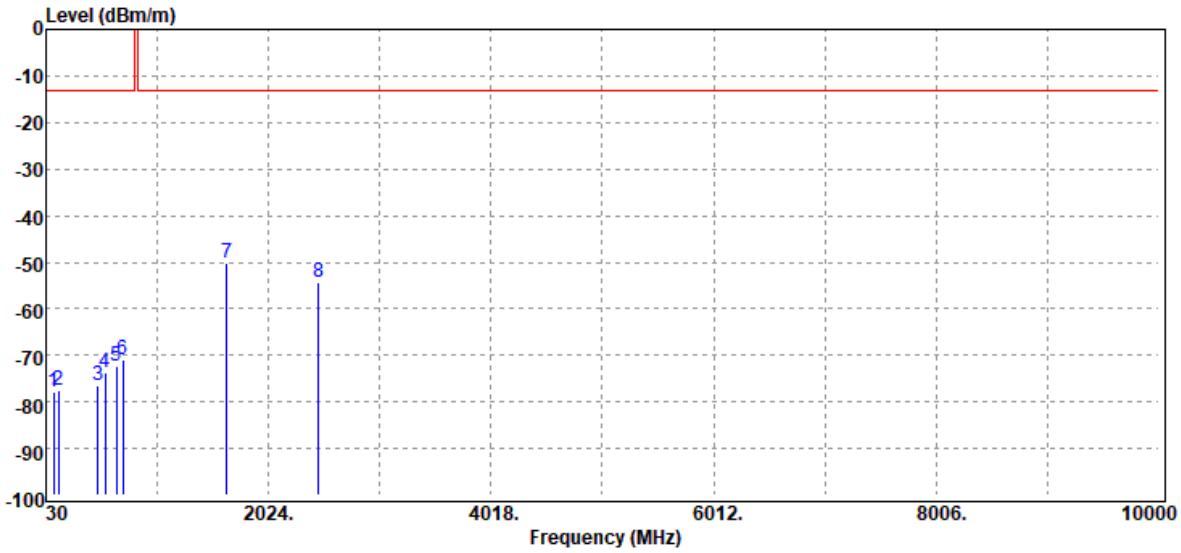
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:GSM 850	Test Date	:2020-12-22
Test Mode	:Tx CH Low	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:824.2 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
100.81	-77.72	-70.57	-6.20	-0.95	-13.00	-64.72
139.61	-77.39	-68.37	-7.93	-1.09	-13.00	-64.39
492.69	-76.47	-72.70	-1.63	-2.14	-13.00	-63.47
560.59	-73.64	-69.99	-1.37	-2.28	-13.00	-60.64
662.44	-72.24	-68.17	-1.35	-2.72	-13.00	-59.24
719.67	-70.96	-67.13	-1.19	-2.64	-13.00	-57.96
1648.40	-50.03	-55.96	9.79	-3.86	-13.00	-37.03
2472.60	-54.38	-60.39	10.78	-4.77	-13.00	-41.38

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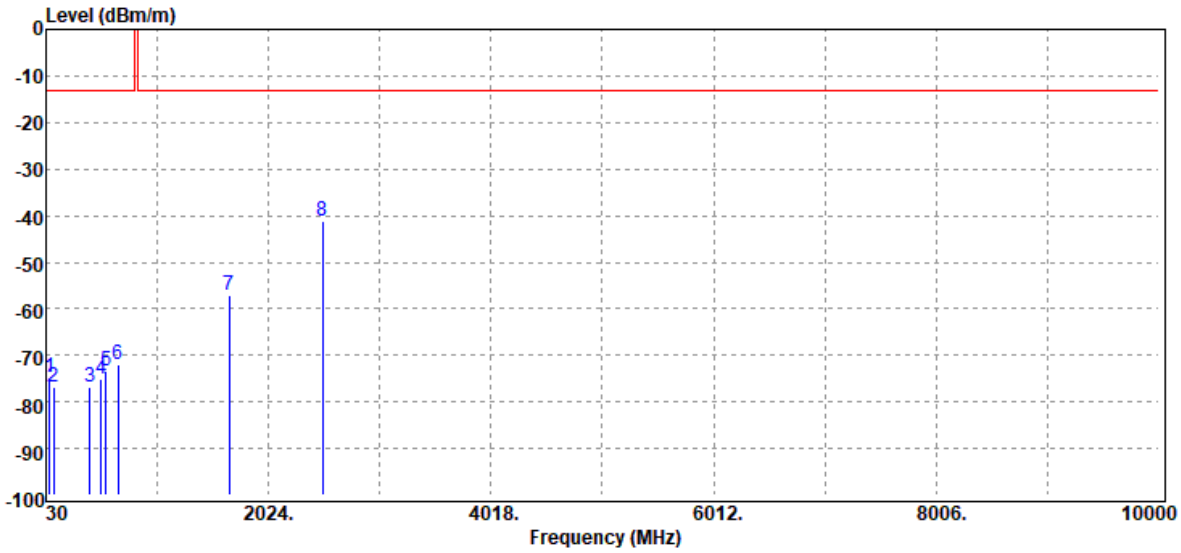
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:GSM 850	Test Date	:2020-12-22
Test Mode	:Tx CH Mid	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:836.6 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
65.89	-74.67	-60.79	-13.09	-0.79	-13.00	-61.67
97.90	-76.89	-70.16	-5.79	-0.94	-13.00	-63.89
420.91	-76.80	-73.23	-1.48	-2.09	-13.00	-63.80
524.70	-74.92	-71.59	-1.33	-2.00	-13.00	-61.92
565.44	-73.38	-69.69	-1.40	-2.29	-13.00	-60.38
672.14	-71.81	-67.62	-1.48	-2.71	-13.00	-58.81
1673.20	-57.21	-63.11	9.80	-3.90	-13.00	-44.21
2509.80	-41.14	-47.36	11.04	-4.82	-13.00	-28.14

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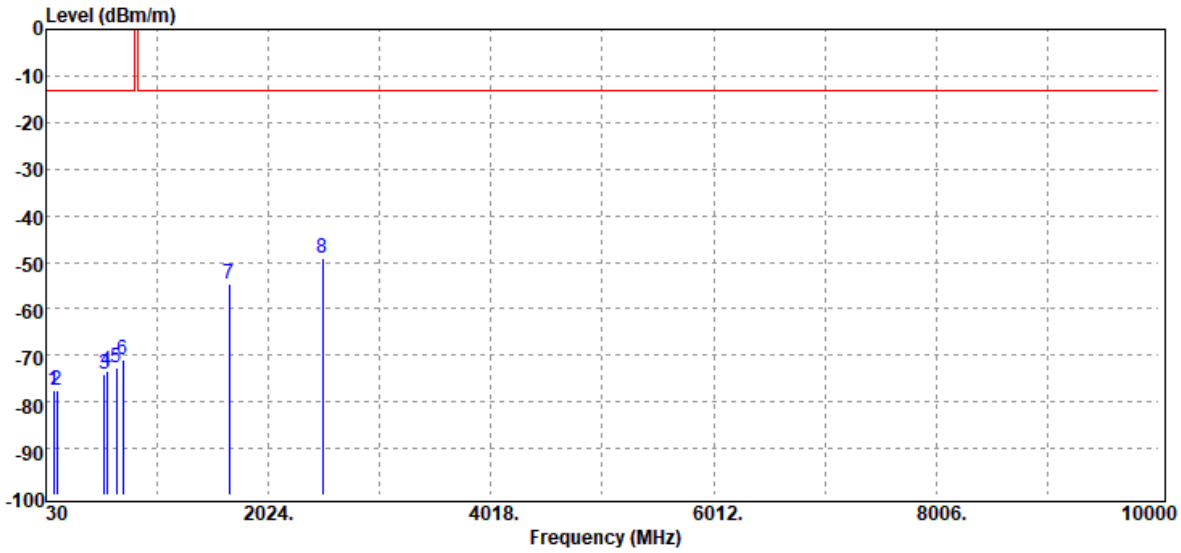
Operation Mode	:GSM 850	Test Date	:2020-12-22
Test Mode	:Tx CH Mid	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:836.6 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
100.81	-77.47	-70.32	-6.20	-0.95	-13.00	-64.47
129.91	-77.56	-68.84	-7.74	-0.98	-13.00	-64.56
553.80	-74.18	-70.64	-1.31	-2.23	-13.00	-61.18
571.26	-73.26	-69.43	-1.52	-2.31	-13.00	-60.26
662.44	-72.62	-68.55	-1.35	-2.72	-13.00	-59.62
719.67	-70.99	-67.16	-1.19	-2.64	-13.00	-57.99
1673.20	-54.54	-60.44	9.80	-3.90	-13.00	-41.54
2509.80	-49.04	-55.26	11.04	-4.82	-13.00	-36.04

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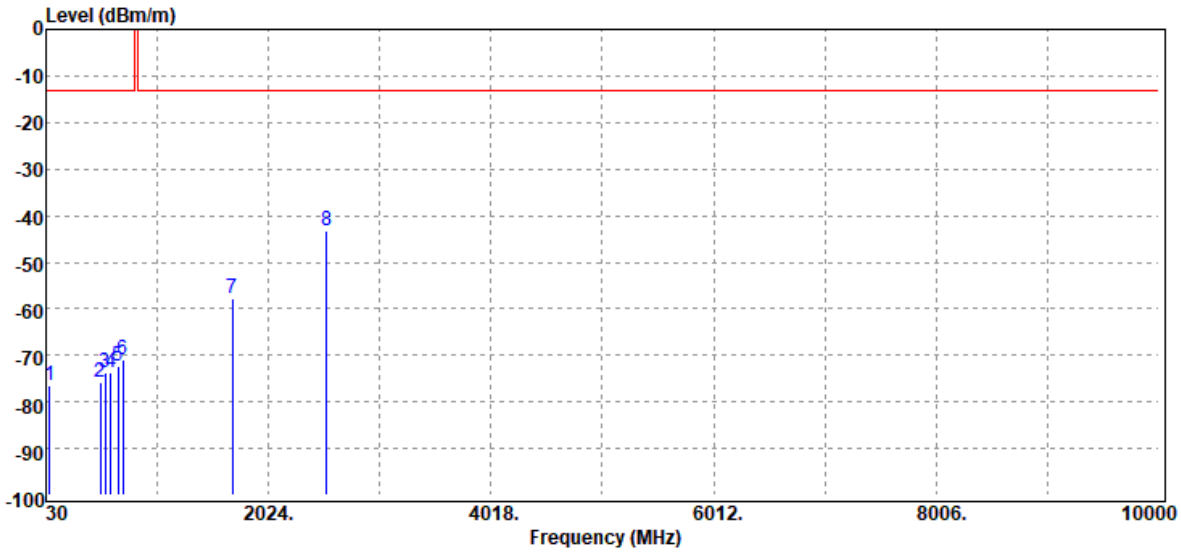
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:GSM 850	Test Date	:2020-12-22
Test Mode	:Tx CH High	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:848.8 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
65.89	-76.34	-62.46	-13.09	-0.79	-13.00	-63.34
519.85	-75.71	-72.14	-1.41	-2.16	-13.00	-62.71
560.59	-73.76	-70.11	-1.37	-2.28	-13.00	-60.76
609.09	-73.81	-69.91	-1.91	-1.99	-13.00	-60.81
672.14	-72.28	-68.09	-1.48	-2.71	-13.00	-59.28
716.76	-70.83	-66.96	-1.28	-2.59	-13.00	-57.83
1697.60	-57.74	-63.61	9.80	-3.93	-13.00	-44.74
2546.40	-43.10	-49.43	11.19	-4.86	-13.00	-30.10

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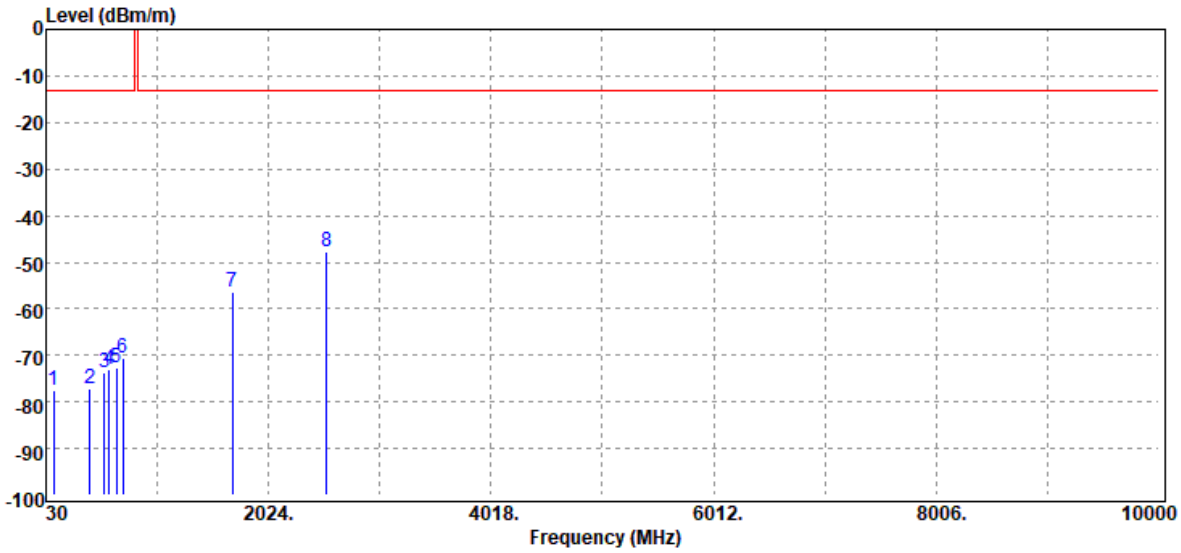
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:GSM 850	Test Date	:2020-12-22
Test Mode	:Tx CH High	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:848.8 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
100.81	-77.52	-70.37	-6.20	-0.95	-13.00	-64.52
419.94	-77.28	-73.74	-1.46	-2.08	-13.00	-64.28
551.86	-73.79	-70.31	-1.26	-2.22	-13.00	-60.79
594.54	-73.17	-68.88	-1.83	-2.46	-13.00	-60.17
663.41	-72.51	-68.42	-1.36	-2.73	-13.00	-59.51
719.67	-70.42	-66.59	-1.19	-2.64	-13.00	-57.42
1697.60	-56.47	-62.34	9.80	-3.93	-13.00	-43.47
2546.40	-47.64	-53.97	11.19	-4.86	-13.00	-34.64

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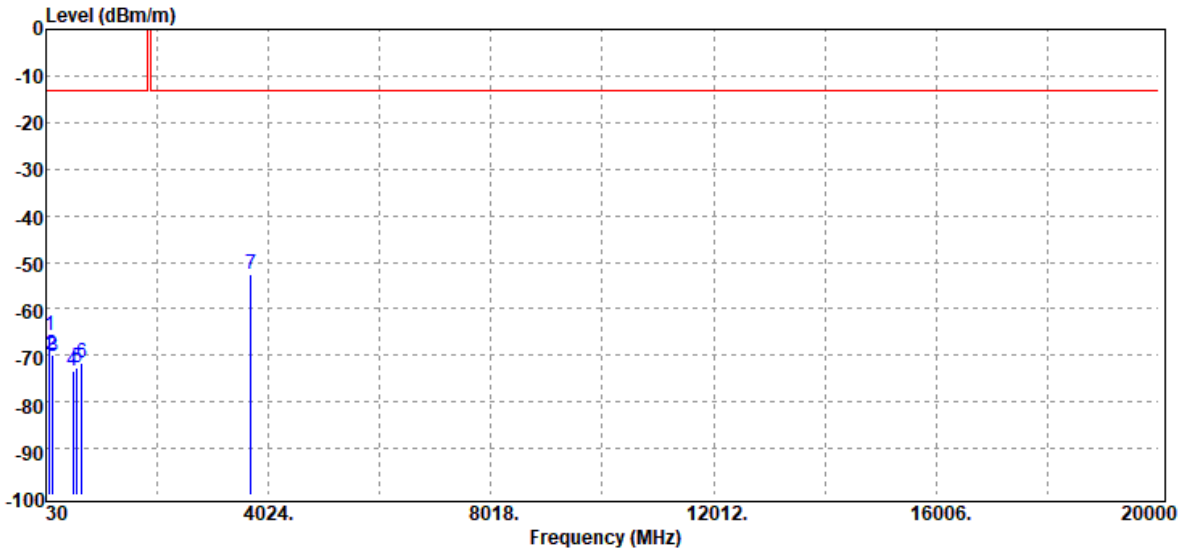
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:GSM 1900	Test Date	:2020-12-22
Test Mode	:Tx CH Low	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1850.2 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
97.90	-65.61	-58.88	-5.79	-0.94	-13.00	-52.61
138.64	-69.86	-60.83	-7.95	-1.08	-13.00	-56.86
158.04	-70.22	-61.96	-7.05	-1.21	-13.00	-57.22
517.91	-73.51	-69.86	-1.44	-2.21	-13.00	-60.51
580.96	-72.70	-68.56	-1.66	-2.48	-13.00	-59.70
673.11	-71.63	-67.50	-1.46	-2.67	-13.00	-58.63
3700.40	-52.75	-59.29	12.40	-5.86	-13.00	-39.75

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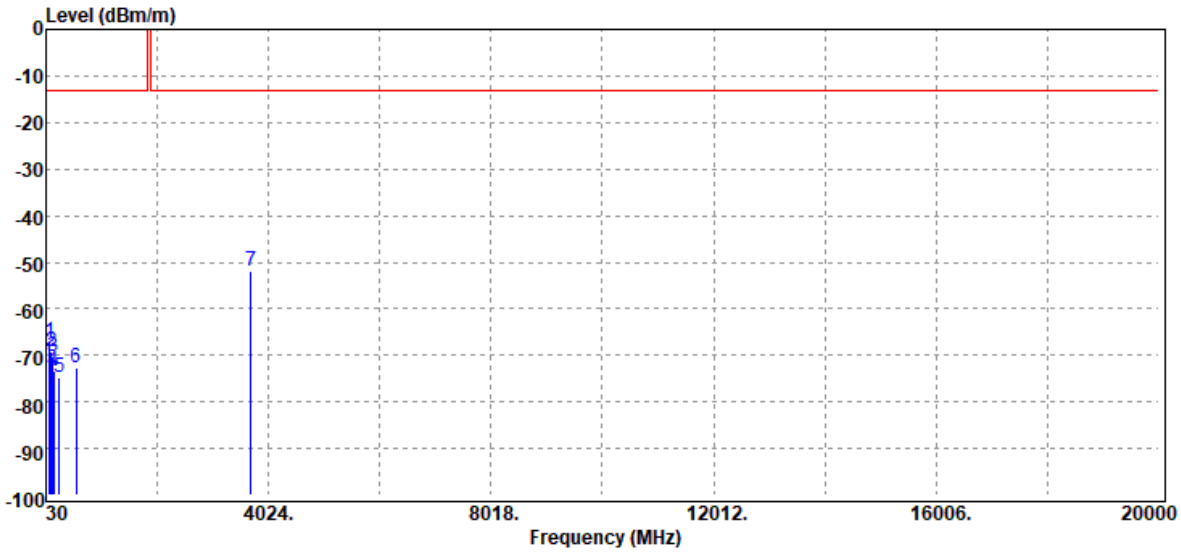
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:GSM 1900	Test Date	:2020-12-22
Test Mode	:Tx CH Low	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:1850.2 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
99.84	-67.25	-60.29	-6.01	-0.95	-13.00	-54.25
125.06	-69.30	-60.79	-7.49	-1.02	-13.00	-56.30
148.34	-70.37	-61.53	-7.64	-1.20	-13.00	-57.37
168.71	-73.20	-65.90	-6.04	-1.26	-13.00	-60.20
274.44	-74.61	-71.32	-1.75	-1.54	-13.00	-61.61
565.44	-72.77	-69.08	-1.40	-2.29	-13.00	-59.77
3700.40	-51.82	-58.36	12.40	-5.86	-13.00	-38.82

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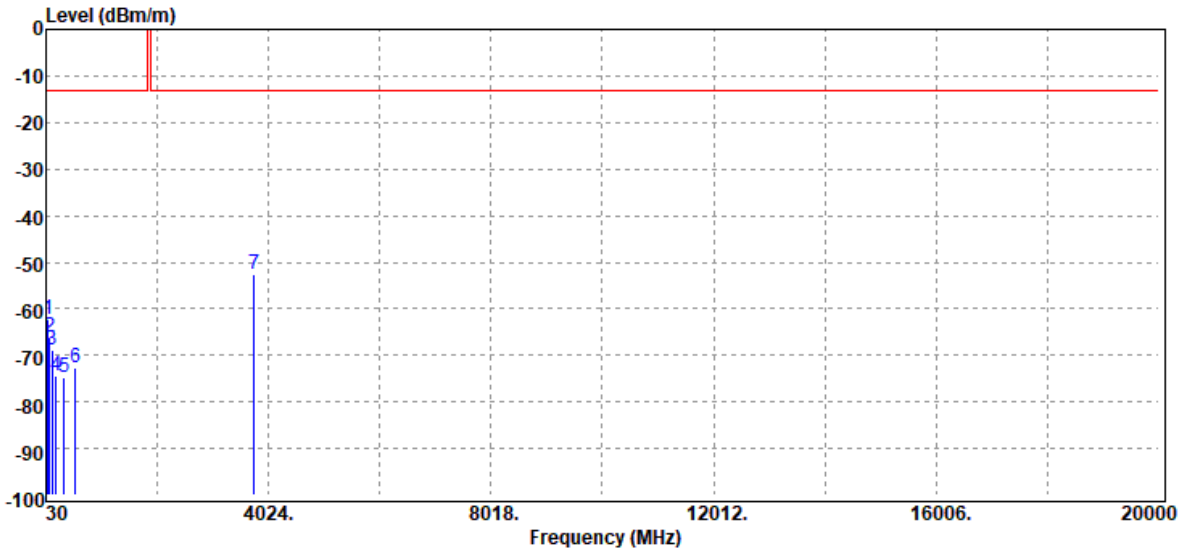
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:GSM 1900	Test Date	:2020-12-22
Test Mode	:Tx CH Mid	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1880 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
61.04	-62.41	-47.05	-14.61	-0.75	-13.00	-49.41
95.96	-66.21	-59.70	-5.58	-0.93	-13.00	-53.21
144.46	-68.84	-59.90	-7.79	-1.15	-13.00	-55.84
216.24	-74.52	-71.35	-1.80	-1.37	-13.00	-61.52
357.86	-74.80	-71.56	-1.51	-1.73	-13.00	-61.80
551.86	-72.60	-69.12	-1.26	-2.22	-13.00	-59.60
3760.00	-52.64	-59.30	12.40	-5.74	-13.00	-39.64

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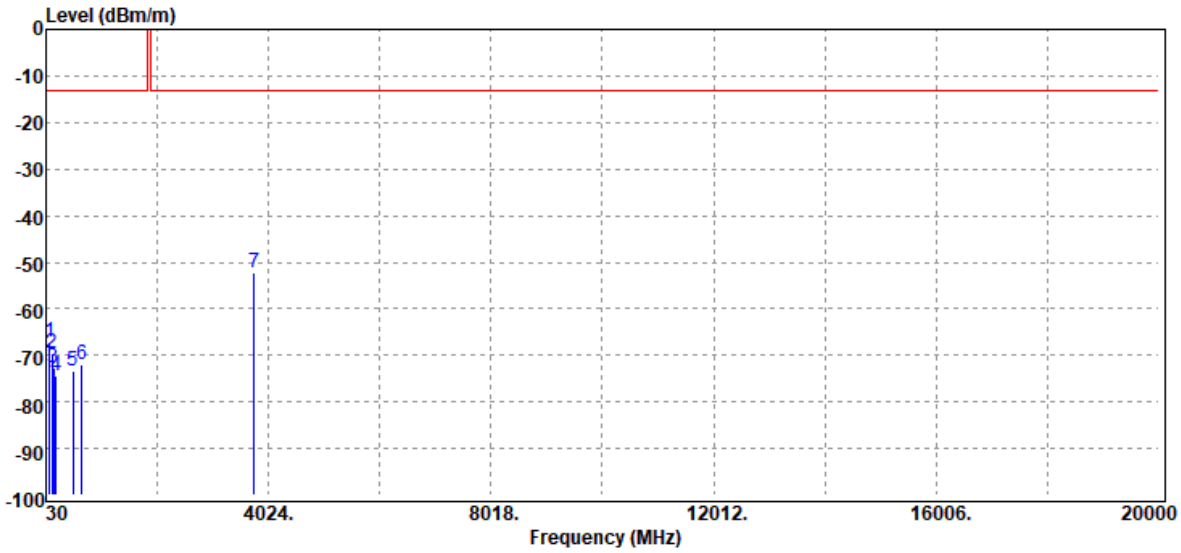
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:GSM 1900	Test Date	:2020-12-22
Test Mode	:Tx CH Mid	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:1880 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
100.81	-67.07	-59.92	-6.20	-0.95	-13.00	-54.07
138.64	-69.53	-60.50	-7.95	-1.08	-13.00	-56.53
165.80	-72.55	-64.94	-6.37	-1.24	-13.00	-59.55
209.45	-74.45	-71.37	-1.71	-1.37	-13.00	-61.45
517.91	-73.20	-69.55	-1.44	-2.21	-13.00	-60.20
670.20	-72.06	-67.75	-1.50	-2.81	-13.00	-59.06
3760.00	-52.22	-58.88	12.40	-5.74	-13.00	-39.22

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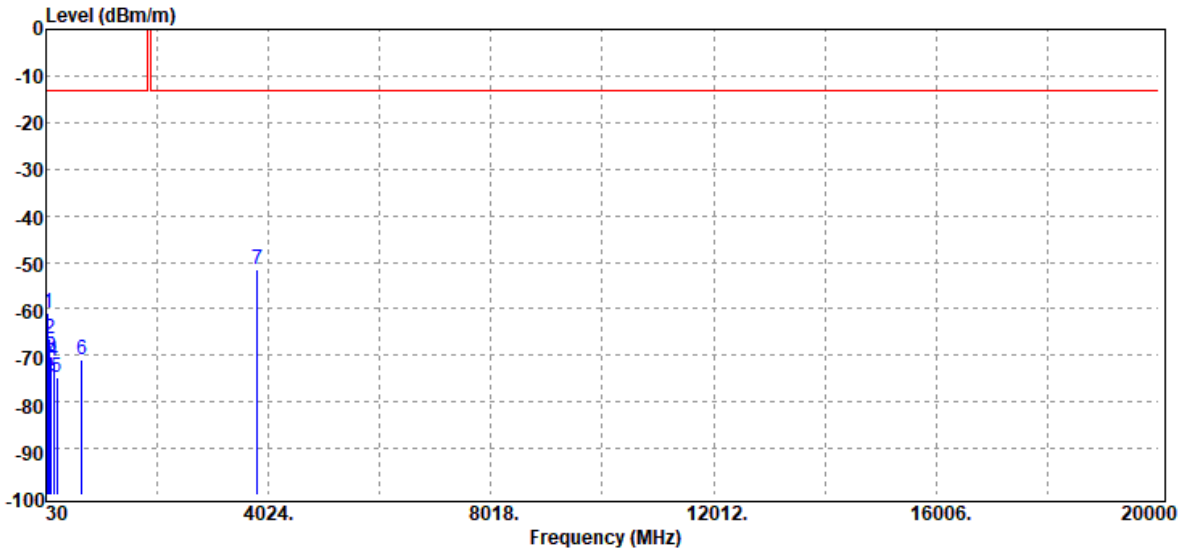
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:GSM 1900	Test Date	:2020-12-22
Test Mode	:Tx CH High	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1909.8 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
65.89	-60.82	-46.94	-13.09	-0.79	-13.00	-47.82
94.99	-66.39	-59.89	-5.57	-0.93	-13.00	-53.39
129.91	-70.25	-61.53	-7.74	-0.98	-13.00	-57.25
165.80	-71.18	-63.57	-6.37	-1.24	-13.00	-58.18
225.94	-74.66	-71.96	-1.30	-1.40	-13.00	-61.66
673.11	-71.08	-66.95	-1.46	-2.67	-13.00	-58.08
3819.60	-51.70	-58.35	12.44	-5.79	-13.00	-38.70

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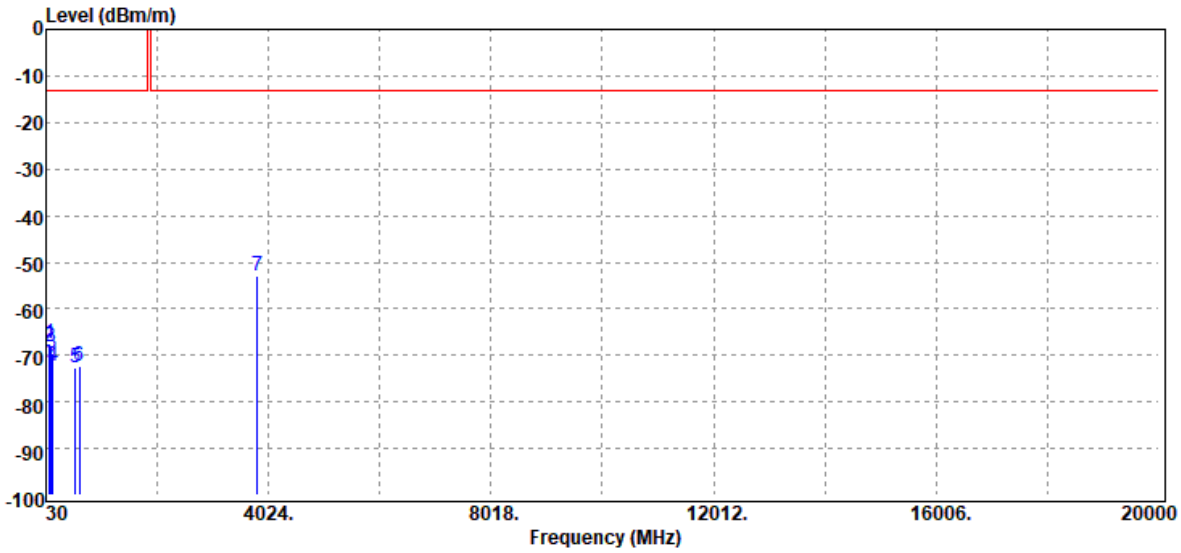
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:GSM 1900	Test Date	:2020-12-22
Test Mode	:Tx CH High	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:1909.8 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
100.81	-67.34	-60.19	-6.20	-0.95	-13.00	-54.34
114.39	-68.15	-59.82	-7.30	-1.03	-13.00	-55.15
136.70	-69.46	-60.50	-7.91	-1.05	-13.00	-56.46
159.01	-72.45	-64.24	-7.00	-1.21	-13.00	-59.45
558.65	-72.78	-69.15	-1.36	-2.27	-13.00	-59.78
624.61	-72.38	-68.39	-1.81	-2.18	-13.00	-59.38
3819.60	-52.82	-59.47	12.44	-5.79	-13.00	-39.82

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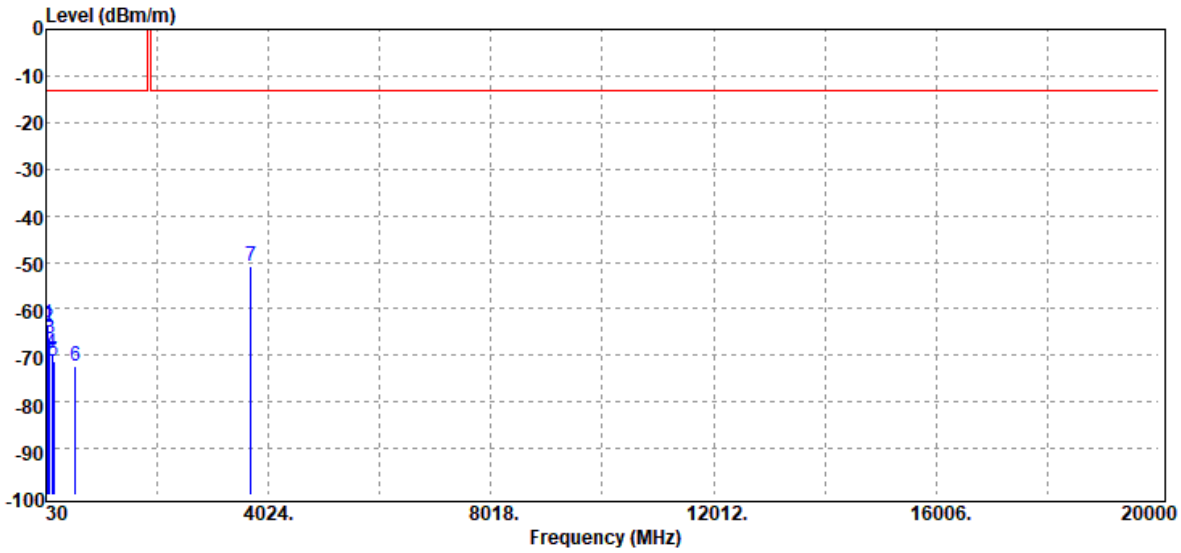
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:WCMDA B2	Test Date	:2020-12-22
Test Mode	:Tx CH Low	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1852.4 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
61.04	-63.35	-47.99	-14.61	-0.75	-13.00	-50.35
65.89	-64.06	-50.18	-13.09	-0.79	-13.00	-51.06
100.81	-66.51	-59.36	-6.20	-0.95	-13.00	-53.51
144.46	-69.52	-60.58	-7.79	-1.15	-13.00	-56.52
167.74	-71.22	-63.73	-6.23	-1.26	-13.00	-58.22
561.56	-72.37	-68.72	-1.37	-2.28	-13.00	-59.37
3704.80	-50.79	-57.34	12.40	-5.85	-13.00	-37.79

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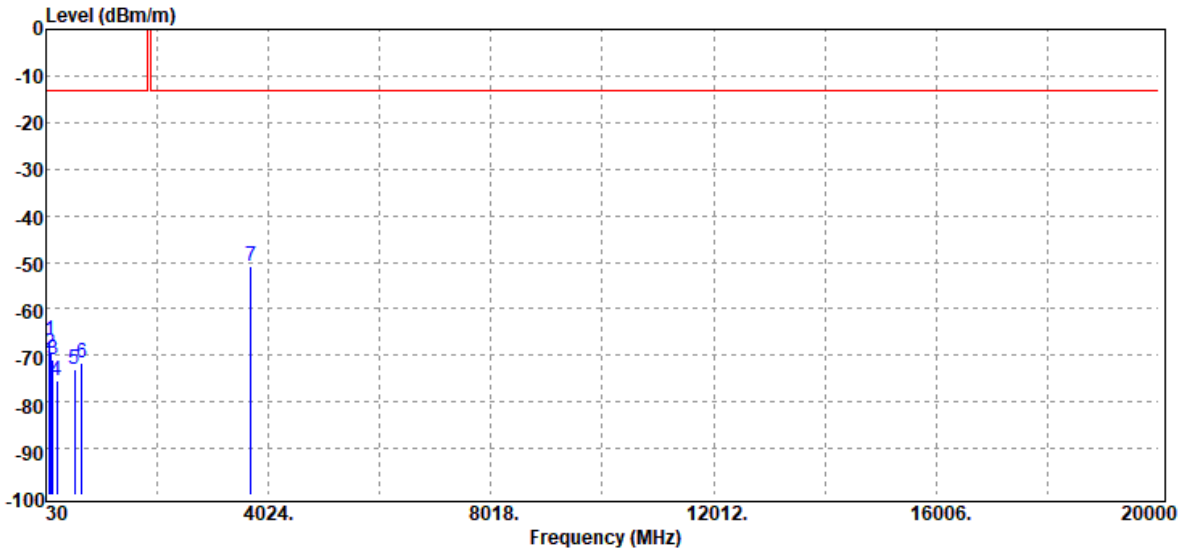
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:WCMDA B2	Test Date	:2020-12-22
Test Mode	:Tx CH Low	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:1852.4 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
100.81	-66.84	-59.69	-6.20	-0.95	-13.00	-53.84
110.51	-69.59	-61.47	-7.11	-1.01	-13.00	-56.59
156.10	-70.81	-62.43	-7.17	-1.21	-13.00	-57.81
228.85	-75.50	-72.71	-1.37	-1.42	-13.00	-62.50
546.04	-73.11	-69.82	-1.20	-2.09	-13.00	-60.11
676.99	-71.54	-67.61	-1.45	-2.48	-13.00	-58.54
3704.80	-50.96	-57.51	12.40	-5.85	-13.00	-37.96

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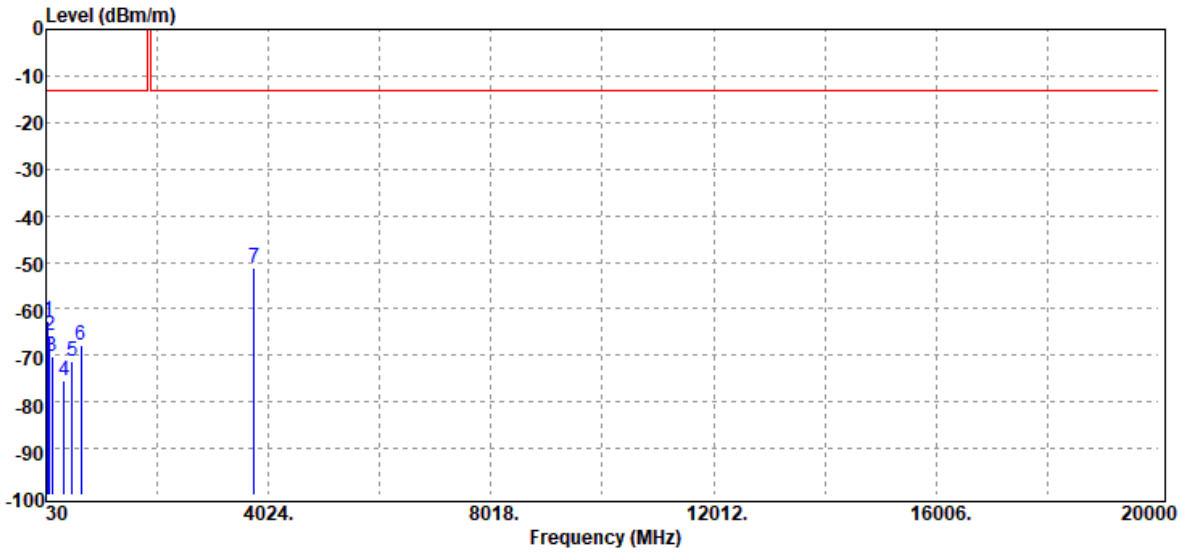
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:WCMDA B2	Test Date	:2020-12-22
Test Mode	:Tx CH Mid	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1880 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
63.95	-62.48	-47.80	-13.91	-0.77	-13.00	-49.48
94.99	-65.66	-59.16	-5.57	-0.93	-13.00	-52.66
144.46	-70.36	-61.42	-7.79	-1.15	-13.00	-57.36
359.80	-75.56	-72.35	-1.50	-1.71	-13.00	-62.56
498.51	-71.19	-67.46	-1.50	-2.23	-13.00	-58.19
652.74	-67.67	-63.80	-1.33	-2.54	-13.00	-54.67
3760.00	-51.04	-57.70	12.40	-5.74	-13.00	-38.04

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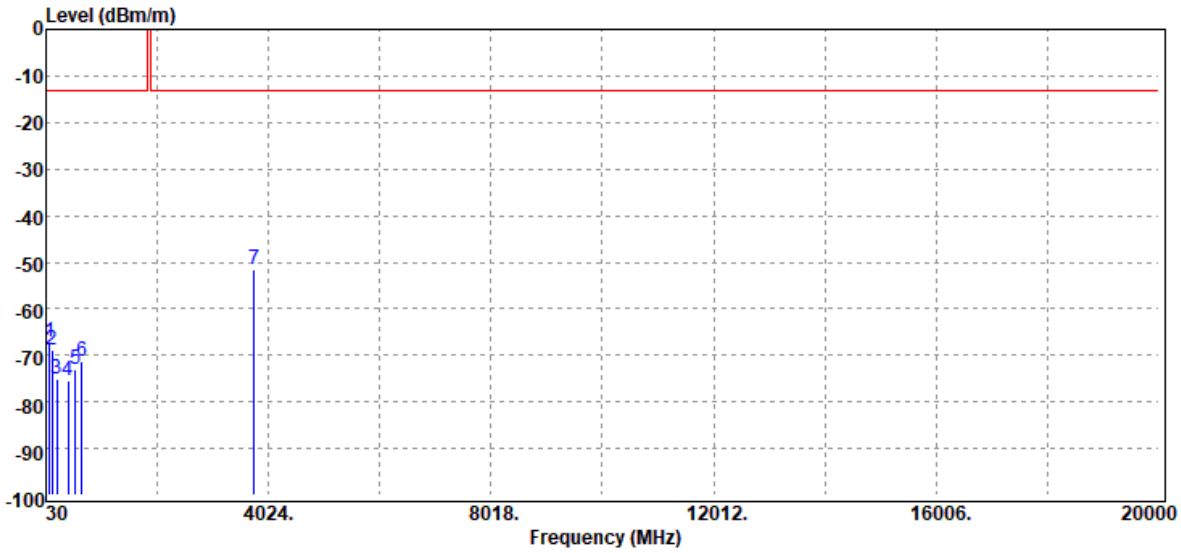
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:WCMDA B2	Test Date	:2020-12-22
Test Mode	:Tx CH Mid	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:1880 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
100.81	-67.16	-60.01	-6.20	-0.95	-13.00	-54.16
139.61	-69.01	-59.99	-7.93	-1.09	-13.00	-56.01
224.00	-74.99	-72.26	-1.34	-1.39	-13.00	-61.99
420.91	-75.60	-72.03	-1.48	-2.09	-13.00	-62.60
553.80	-72.86	-69.32	-1.31	-2.23	-13.00	-59.86
670.20	-71.23	-66.92	-1.50	-2.81	-13.00	-58.23
3760.00	-51.53	-58.19	12.40	-5.74	-13.00	-38.53

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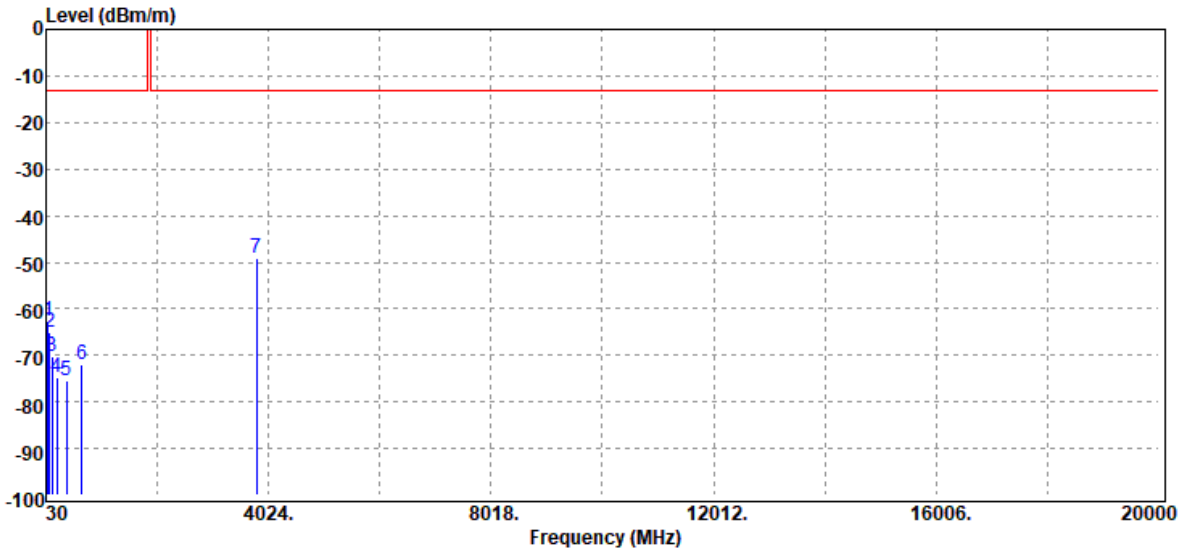
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:WCMDA B2	Test Date	:2020-12-22
Test Mode	:Tx CH High	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1907.6 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
61.04	-62.58	-47.22	-14.61	-0.75	-13.00	-49.58
97.90	-65.07	-58.34	-5.79	-0.94	-13.00	-52.07
143.49	-70.15	-61.17	-7.84	-1.14	-13.00	-57.15
224.00	-74.75	-72.02	-1.34	-1.39	-13.00	-61.75
395.69	-75.58	-72.16	-1.58	-1.84	-13.00	-62.58
672.14	-72.02	-67.83	-1.48	-2.71	-13.00	-59.02
3815.20	-49.05	-55.72	12.43	-5.76	-13.00	-36.05

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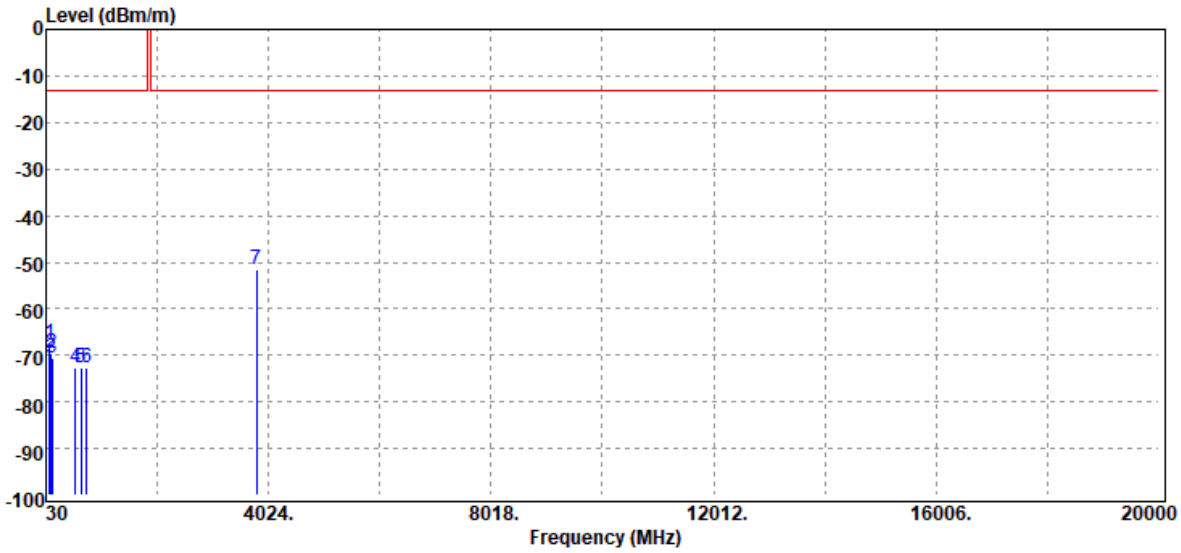
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:WCMDA B2	Test Date	:2020-12-22
Test Mode	:Tx CH High	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:1907.6 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
97.90	-67.46	-60.73	-5.79	-0.94	-13.00	-54.46
122.15	-69.49	-61.04	-7.40	-1.05	-13.00	-56.49
145.43	-70.60	-61.72	-7.72	-1.16	-13.00	-57.60
556.71	-72.55	-68.94	-1.35	-2.26	-13.00	-59.55
663.41	-72.80	-68.71	-1.36	-2.73	-13.00	-59.80
762.35	-72.72	-68.40	-1.78	-2.54	-13.00	-59.72
3815.20	-51.59	-58.26	12.43	-5.76	-13.00	-38.59

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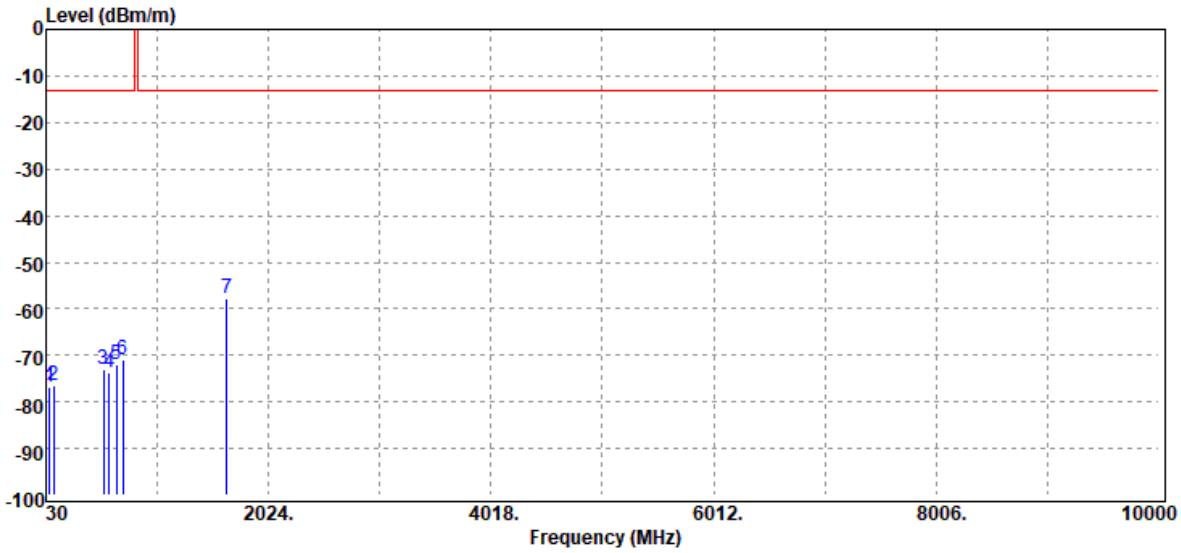
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:WCMDA B5	Test Date	:2020-12-22
Test Mode	:Tx CH Low	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:826.4 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
65.89	-76.96	-63.08	-13.09	-0.79	-13.00	-63.96
99.84	-76.36	-69.40	-6.01	-0.95	-13.00	-63.36
547.01	-73.05	-69.72	-1.21	-2.12	-13.00	-60.05
594.54	-73.55	-69.26	-1.83	-2.46	-13.00	-60.55
658.56	-71.98	-67.99	-1.33	-2.66	-13.00	-58.98
721.61	-70.91	-67.00	-1.26	-2.65	-13.00	-57.91
1652.80	-57.73	-63.66	9.80	-3.87	-13.00	-44.73

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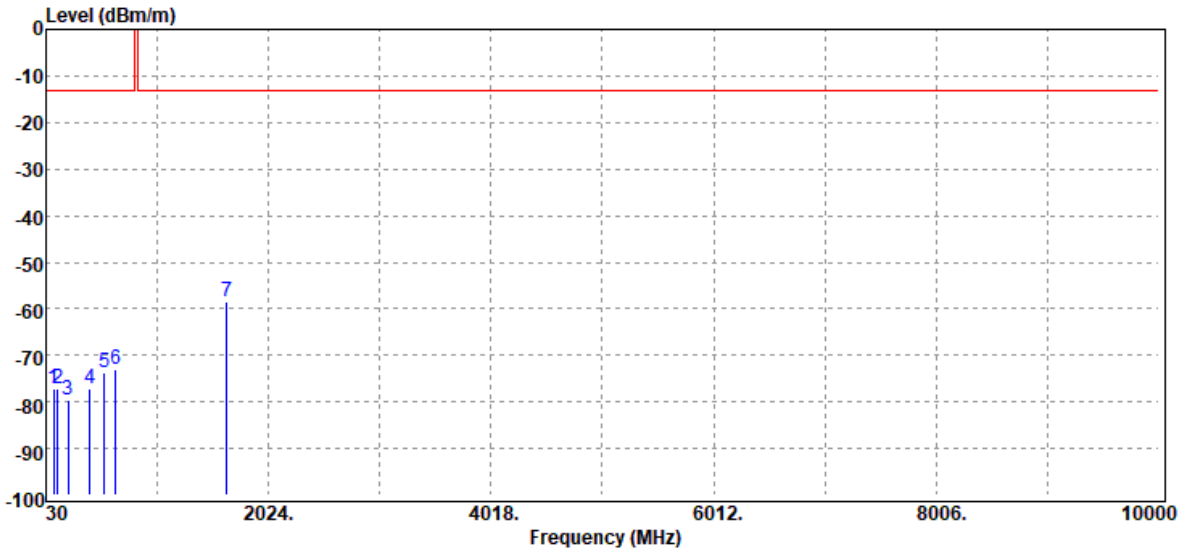
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:WCMDA B5	Test Date	:2020-12-22
Test Mode	:Tx CH Low	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:826.4 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
100.81	-77.24	-70.09	-6.20	-0.95	-13.00	-64.24
136.70	-77.21	-68.25	-7.91	-1.05	-13.00	-64.21
228.85	-79.61	-76.82	-1.37	-1.42	-13.00	-66.61
419.94	-77.14	-73.60	-1.46	-2.08	-13.00	-64.14
553.80	-73.69	-70.15	-1.31	-2.23	-13.00	-60.69
657.59	-73.02	-69.06	-1.32	-2.64	-13.00	-60.02
1652.80	-58.59	-64.52	9.80	-3.87	-13.00	-45.59

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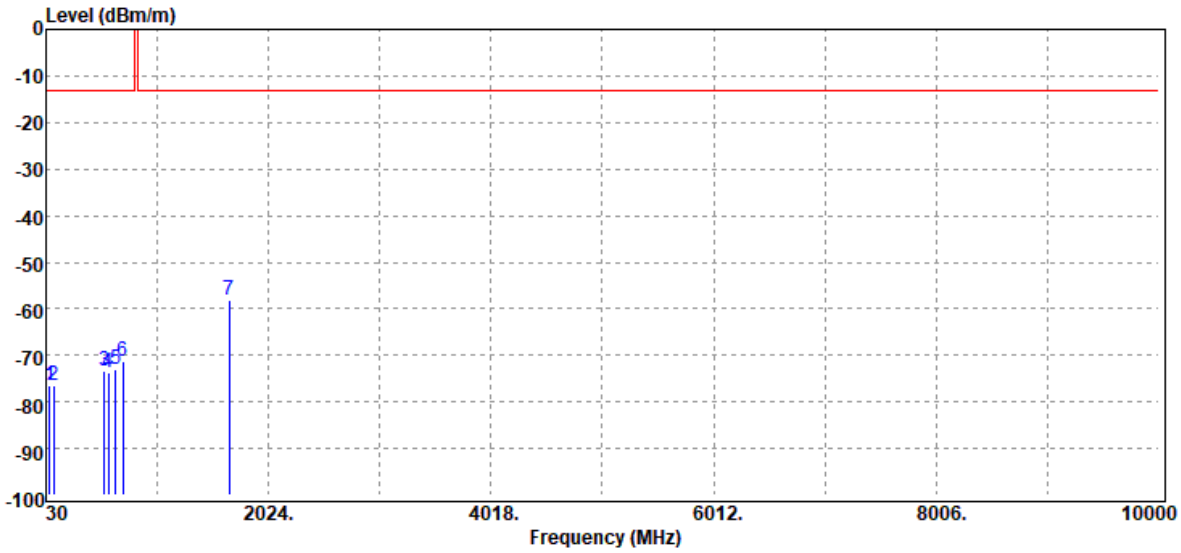
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:WCMDA B5	Test Date	:2020-12-22
Test Mode	:Tx CH Mid	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:836.6 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
59.10	-76.36	-60.45	-15.18	-0.73	-13.00	-63.36
99.84	-76.40	-69.44	-6.01	-0.95	-13.00	-63.40
555.74	-73.50	-69.91	-1.34	-2.25	-13.00	-60.50
590.66	-73.68	-69.28	-1.81	-2.59	-13.00	-60.68
657.59	-72.93	-68.97	-1.32	-2.64	-13.00	-59.93
721.61	-71.24	-67.33	-1.26	-2.65	-13.00	-58.24
1673.20	-58.04	-63.94	9.80	-3.90	-13.00	-45.04

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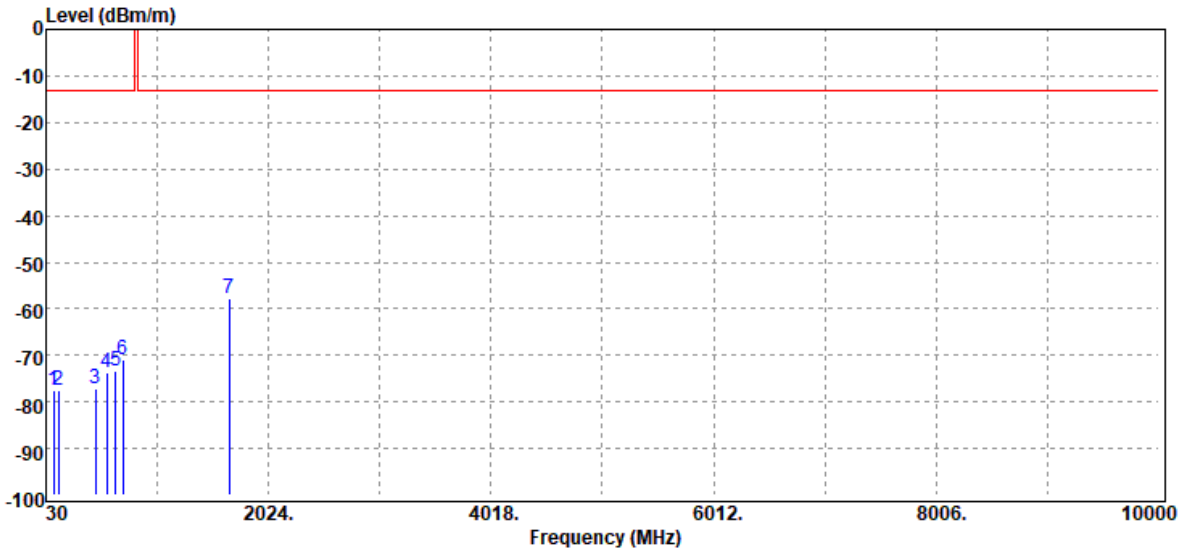
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:WCMDA B5	Test Date	:2020-12-22
Test Mode	:Tx CH Mid	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:836.6 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
100.81	-77.58	-70.43	-6.20	-0.95	-13.00	-64.58
139.61	-77.44	-68.42	-7.93	-1.09	-13.00	-64.44
476.20	-77.09	-73.25	-1.77	-2.07	-13.00	-64.09
576.11	-73.65	-69.69	-1.56	-2.40	-13.00	-60.65
650.80	-73.44	-69.58	-1.36	-2.50	-13.00	-60.44
720.64	-71.08	-67.22	-1.21	-2.65	-13.00	-58.08
1673.20	-57.78	-63.68	9.80	-3.90	-13.00	-44.78

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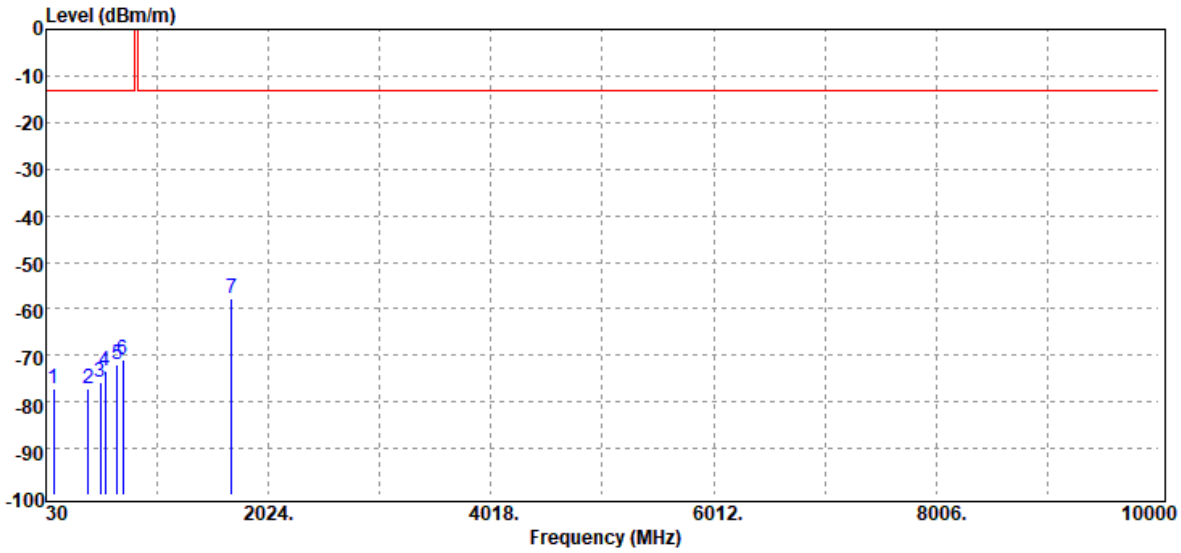
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:WCMDA B5	Test Date	:2020-12-22
Test Mode	:Tx CH High	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:846.6 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
100.81	-77.00	-69.85	-6.20	-0.95	-13.00	-64.00
411.21	-77.25	-73.96	-1.39	-1.90	-13.00	-64.25
516.94	-75.91	-72.22	-1.46	-2.23	-13.00	-62.91
563.50	-73.31	-69.65	-1.38	-2.28	-13.00	-60.31
668.26	-71.94	-67.69	-1.46	-2.79	-13.00	-58.94
719.67	-71.06	-67.23	-1.19	-2.64	-13.00	-58.06
1693.20	-57.61	-63.49	9.80	-3.92	-13.00	-44.61

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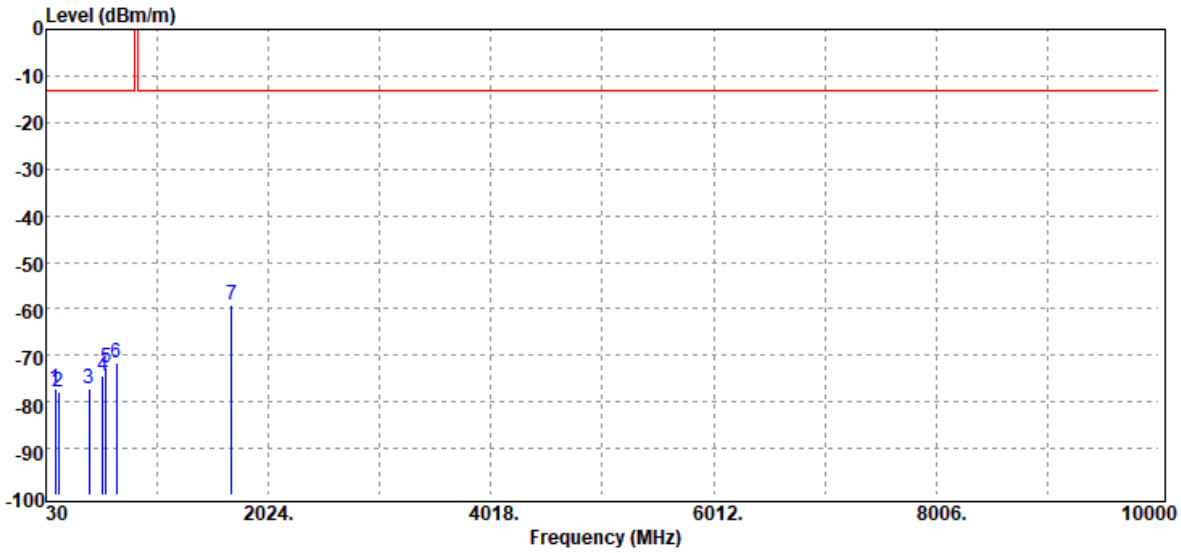
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:WCMDA B5	Test Date	:2020-12-22
Test Mode	:Tx CH High	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:846.6 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
112.45	-77.33	-69.10	-7.21	-1.02	-13.00	-64.33
144.46	-77.84	-68.90	-7.79	-1.15	-13.00	-64.84
418.00	-77.19	-73.69	-1.46	-2.04	-13.00	-64.19
542.16	-74.43	-71.20	-1.24	-1.99	-13.00	-61.43
568.35	-72.82	-69.06	-1.47	-2.29	-13.00	-59.82
660.50	-71.54	-67.51	-1.34	-2.69	-13.00	-58.54
1693.20	-59.03	-64.91	9.80	-3.92	-13.00	-46.03

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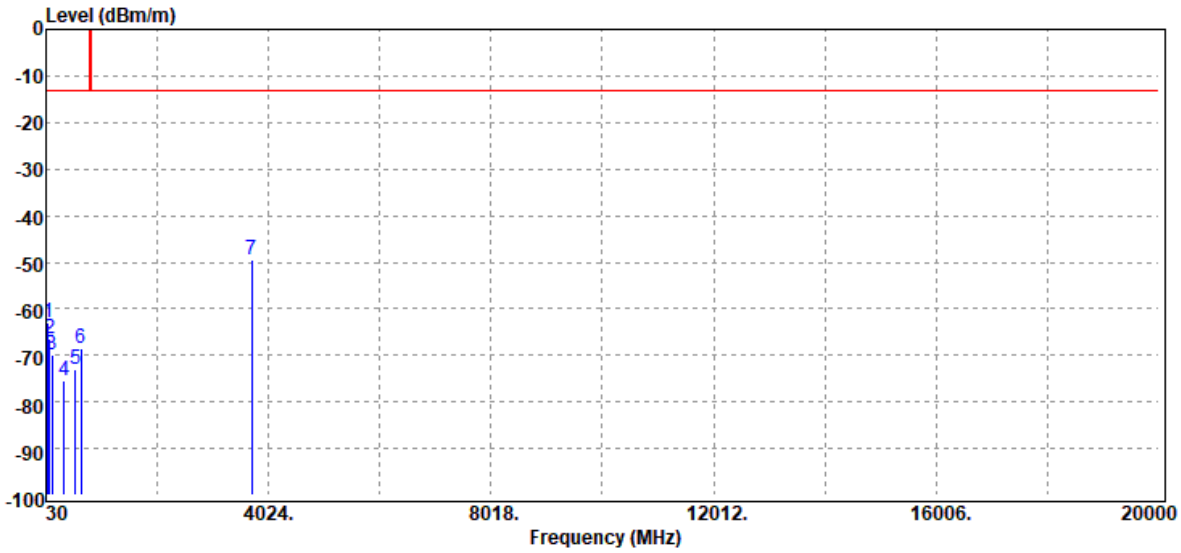
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:LTE B2	Test Date	:2020-12-22
Test Mode	:Tx CH Low	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1860 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
59.10	-63.13	-47.22	-15.18	-0.73	-13.00	-50.13
97.90	-66.55	-59.82	-5.79	-0.94	-13.00	-53.55
141.55	-69.75	-60.73	-7.91	-1.11	-13.00	-56.75
356.89	-75.58	-72.33	-1.51	-1.74	-13.00	-62.58
560.59	-72.95	-69.30	-1.37	-2.28	-13.00	-59.95
652.74	-68.44	-64.57	-1.33	-2.54	-13.00	-55.44
3720.00	-49.50	-56.08	12.40	-5.82	-13.00	-36.50

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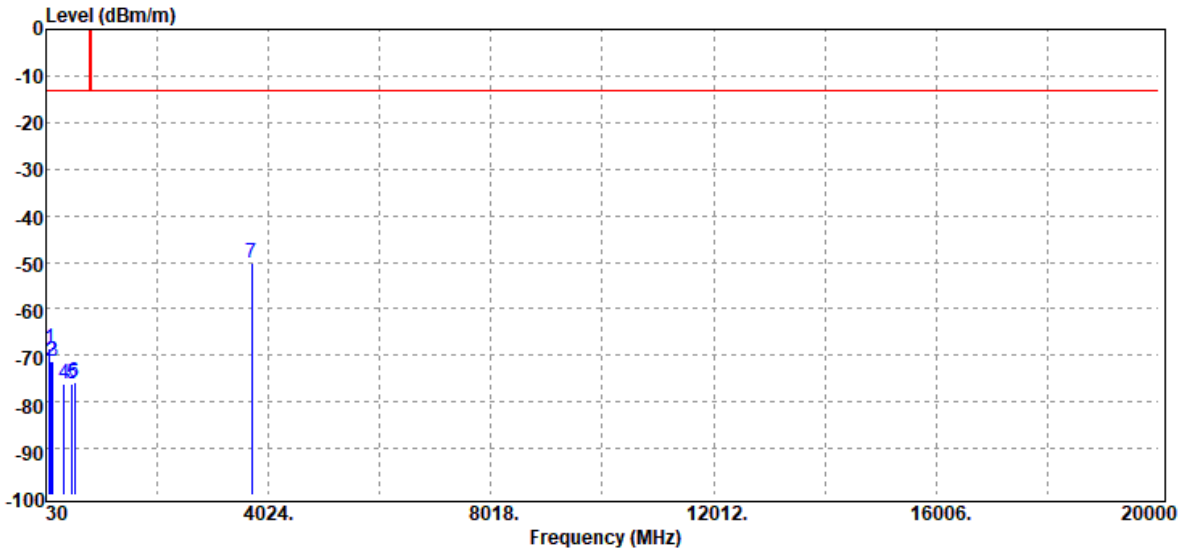
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:LTE B2	Test Date	:2020-12-22
Test Mode	:Tx CH Low	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:1860 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
94.99	-68.37	-61.87	-5.57	-0.93	-13.00	-55.37
122.15	-71.33	-62.88	-7.40	-1.05	-13.00	-58.33
146.40	-71.43	-62.53	-7.72	-1.18	-13.00	-58.43
361.74	-75.99	-72.75	-1.53	-1.71	-13.00	-62.99
497.54	-76.05	-72.30	-1.54	-2.21	-13.00	-63.05
547.01	-75.94	-72.61	-1.21	-2.12	-13.00	-62.94
3720.00	-50.14	-56.72	12.40	-5.82	-13.00	-37.14

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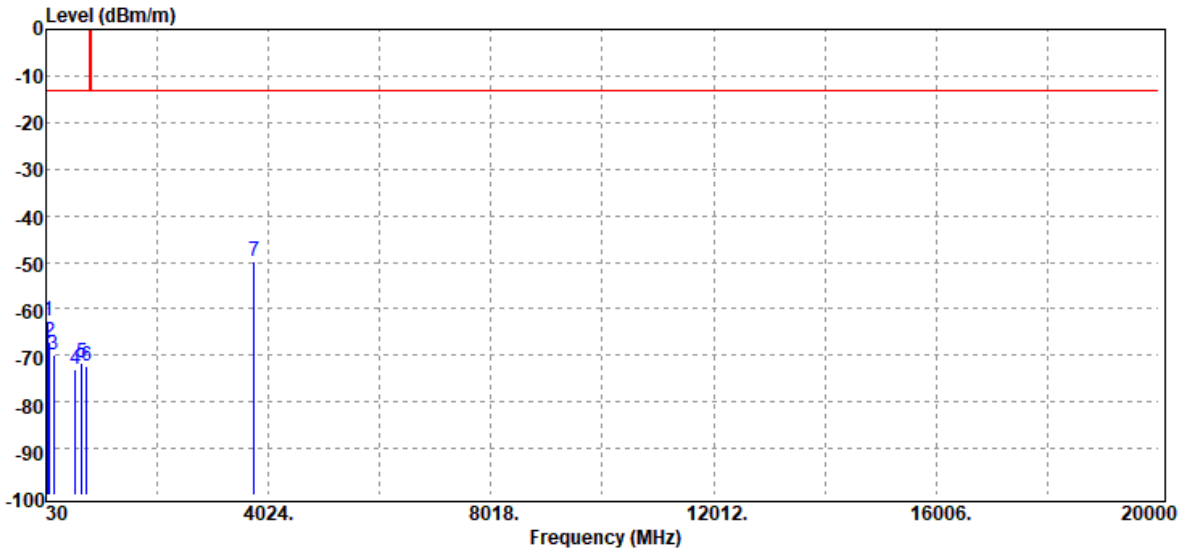
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:LTE B2	Test Date	:2020-12-22
Test Mode	:Tx CH Mid	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1880 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
59.10	-62.62	-46.71	-15.18	-0.73	-13.00	-49.62
97.90	-67.00	-60.27	-5.79	-0.94	-13.00	-54.00
160.95	-70.04	-62.03	-6.80	-1.21	-13.00	-57.04
550.89	-72.91	-69.46	-1.24	-2.21	-13.00	-59.91
675.05	-71.53	-67.52	-1.44	-2.57	-13.00	-58.53
757.50	-72.38	-67.87	-1.79	-2.72	-13.00	-59.38
3760.00	-49.87	-56.53	12.40	-5.74	-13.00	-36.87

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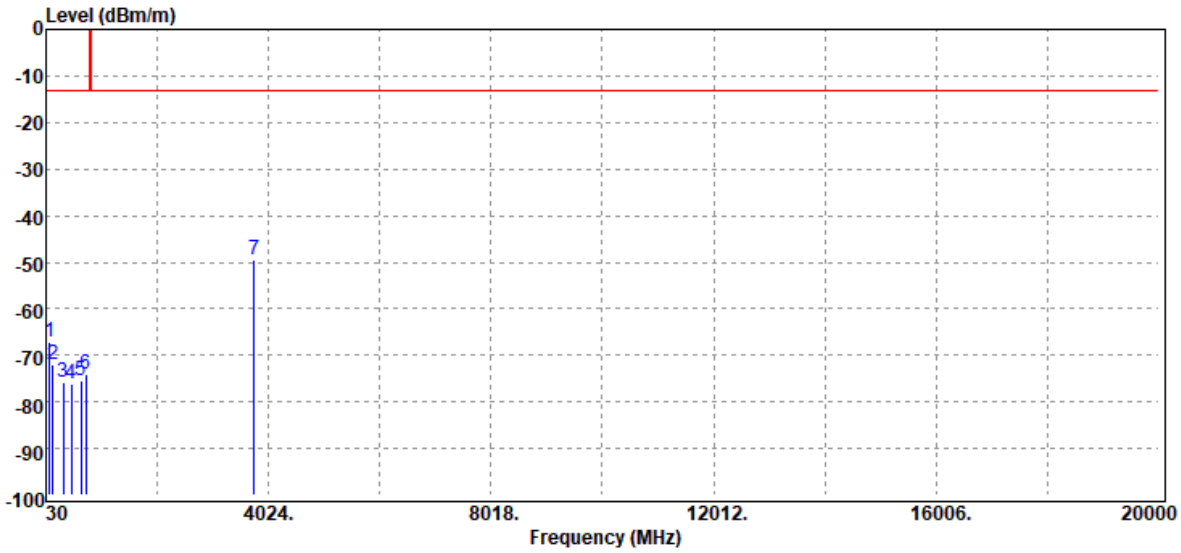
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:LTE B2	Test Date	:2020-12-22
Test Mode	:Tx CH Mid	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:1880 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
99.84	-67.11	-60.15	-6.01	-0.95	-13.00	-54.11
149.31	-71.99	-63.17	-7.61	-1.21	-13.00	-58.99
347.19	-75.78	-72.38	-1.56	-1.84	-13.00	-62.78
479.11	-76.19	-72.38	-1.72	-2.09	-13.00	-63.19
660.50	-75.47	-71.44	-1.34	-2.69	-13.00	-62.47
738.10	-74.05	-69.62	-1.69	-2.74	-13.00	-61.05
3760.00	-49.43	-56.09	12.40	-5.74	-13.00	-36.43

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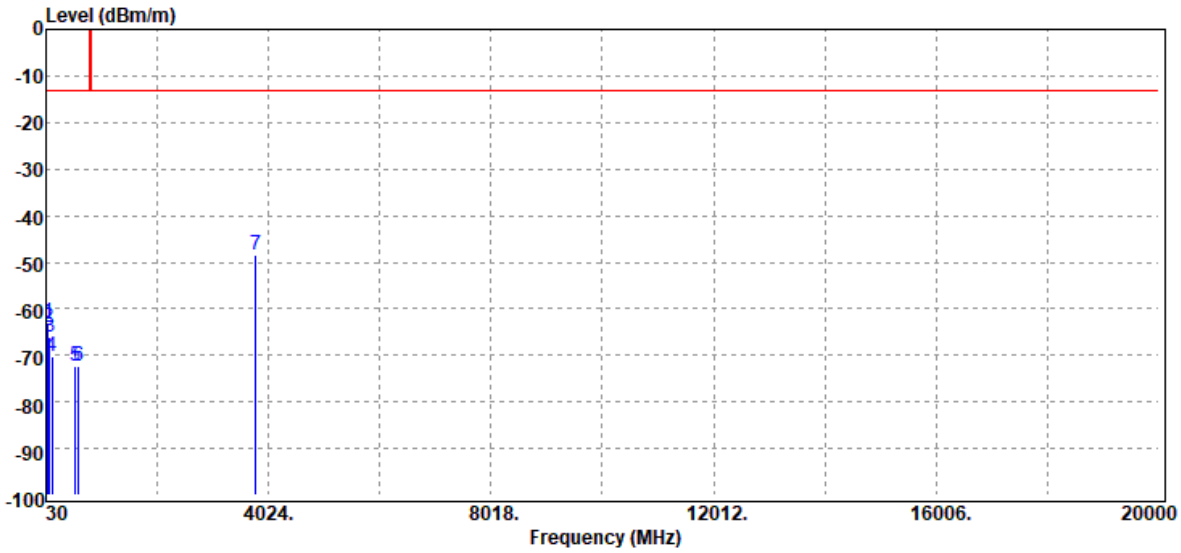
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:LTE B2	Test Date	:2020-12-22
Test Mode	:Tx CH High	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1900 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
59.10	-62.81	-46.90	-15.18	-0.73	-13.00	-49.81
65.89	-63.89	-50.01	-13.09	-0.79	-13.00	-50.89
94.99	-66.20	-59.70	-5.57	-0.93	-13.00	-53.20
141.55	-70.16	-61.14	-7.91	-1.11	-13.00	-57.16
550.89	-72.35	-68.90	-1.24	-2.21	-13.00	-59.35
612.00	-72.18	-68.31	-1.89	-1.98	-13.00	-59.18
3800.00	-48.46	-55.20	12.40	-5.66	-13.00	-35.46

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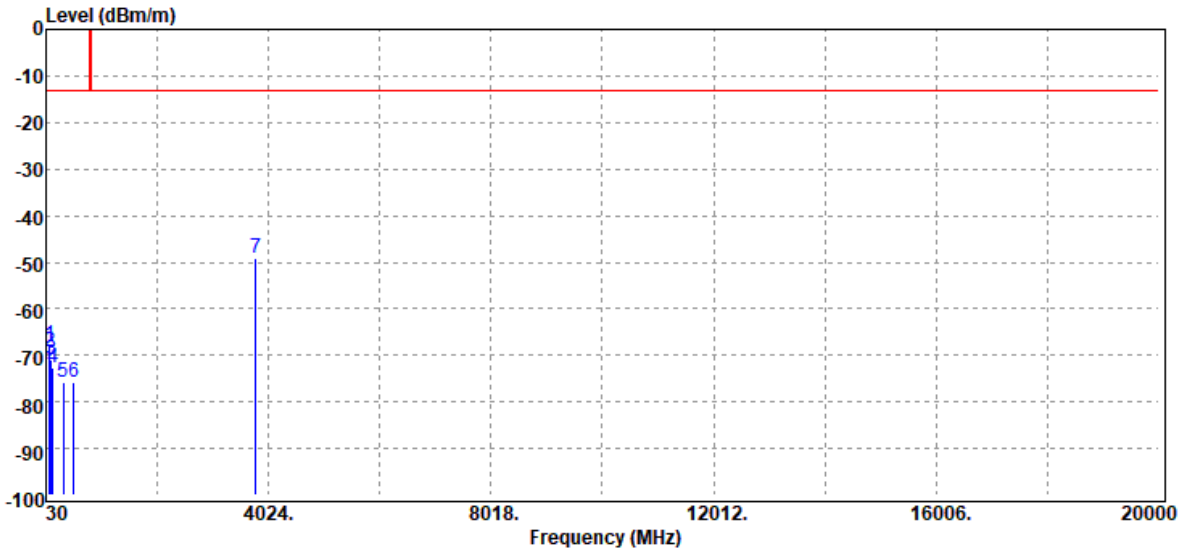
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:LTE B2	Test Date	:2020-12-22
Test Mode	:Tx CH High	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:1900 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
91.11	-67.73	-61.18	-5.64	-0.91	-13.00	-54.73
100.81	-69.14	-61.99	-6.20	-0.95	-13.00	-56.14
124.09	-71.09	-62.60	-7.46	-1.03	-13.00	-58.09
146.40	-72.75	-63.85	-7.72	-1.18	-13.00	-59.75
343.31	-75.74	-72.28	-1.61	-1.85	-13.00	-62.74
526.64	-75.73	-72.46	-1.33	-1.94	-13.00	-62.73
3800.00	-49.23	-55.97	12.40	-5.66	-13.00	-36.23

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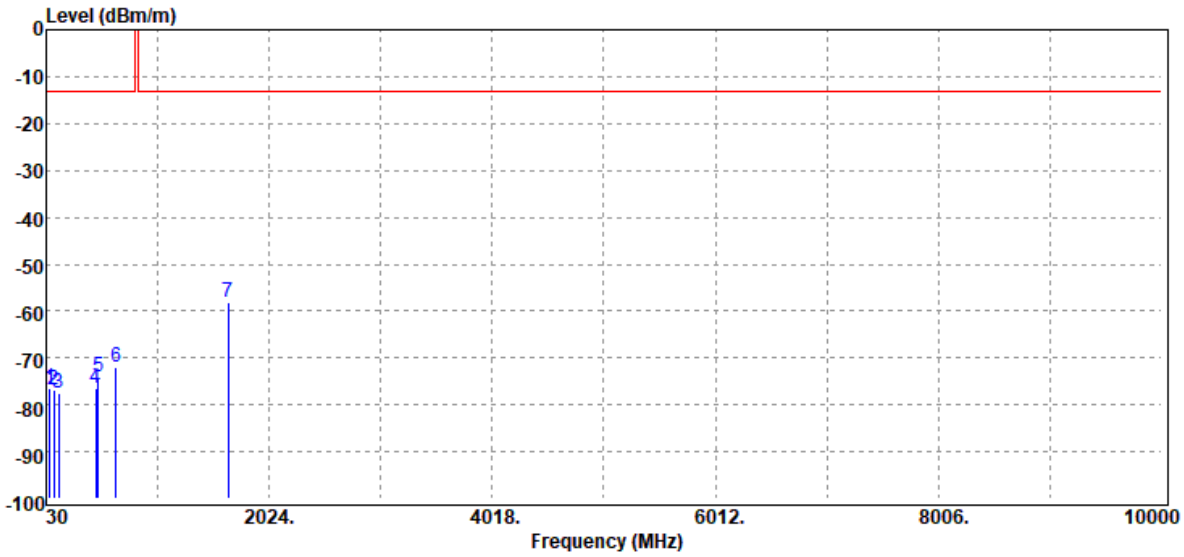
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:LTE B5	Test Date	:2020-12-22
Test Mode	:Tx CH Low	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:829 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
59.10	-76.54	-60.63	-15.18	-0.73	-13.00	-63.54
100.81	-76.80	-69.65	-6.20	-0.95	-13.00	-63.80
138.64	-77.39	-68.36	-7.95	-1.08	-13.00	-64.39
476.20	-76.58	-72.74	-1.77	-2.07	-13.00	-63.58
498.51	-74.14	-70.41	-1.50	-2.23	-13.00	-61.14
655.65	-71.97	-68.06	-1.31	-2.60	-13.00	-58.97
1658.00	-58.10	-64.02	9.80	-3.88	-13.00	-45.10

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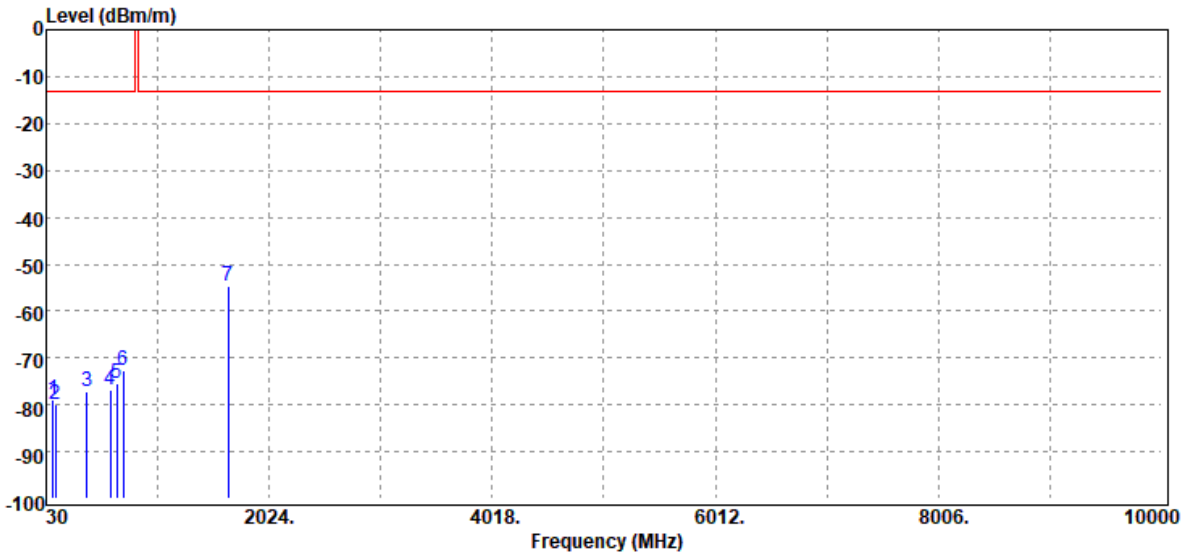
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:LTE B5	Test Date	:2020-12-22
Test Mode	:Tx CH Low	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:829 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
94.02	-79.00	-72.61	-5.47	-0.92	-13.00	-66.00
115.36	-80.00	-71.67	-7.29	-1.04	-13.00	-67.00
390.84	-77.06	-73.74	-1.52	-1.80	-13.00	-64.06
605.21	-76.97	-72.97	-1.89	-2.11	-13.00	-63.97
662.44	-75.53	-71.46	-1.35	-2.72	-13.00	-62.53
718.70	-72.80	-68.95	-1.22	-2.63	-13.00	-59.80
1658.00	-54.58	-60.50	9.80	-3.88	-13.00	-41.58

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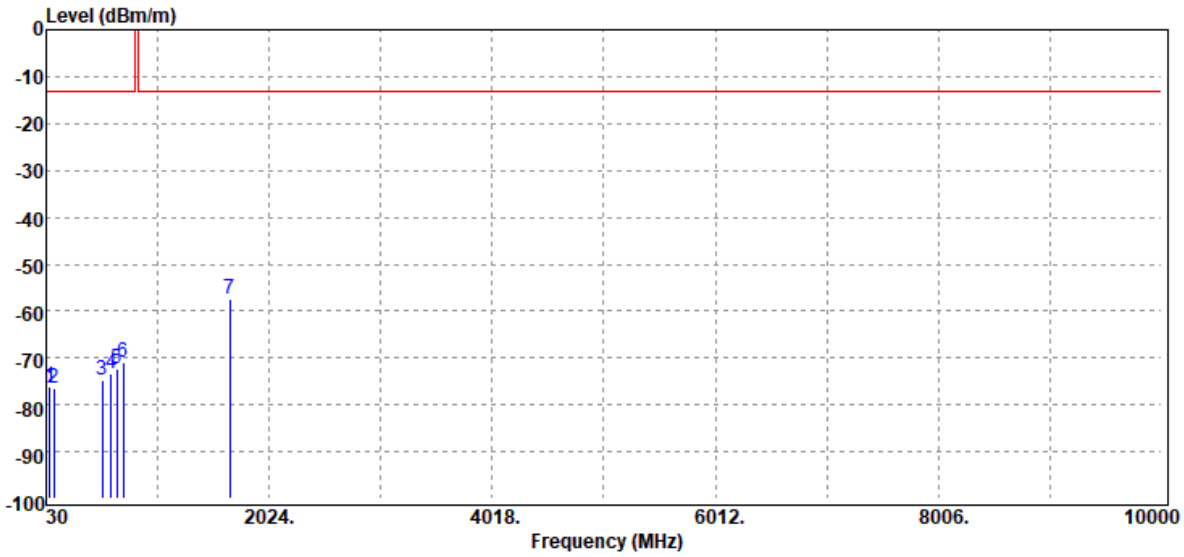
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:LTE B5	Test Date	:2020-12-22
Test Mode	:Tx CH Mid	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:836.5 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
61.04	-76.29	-60.93	-14.61	-0.75	-13.00	-63.29
97.90	-76.63	-69.90	-5.79	-0.94	-13.00	-63.63
534.40	-74.70	-71.47	-1.36	-1.87	-13.00	-61.70
613.94	-73.29	-69.43	-1.86	-2.00	-13.00	-60.29
662.44	-72.45	-68.38	-1.35	-2.72	-13.00	-59.45
719.67	-71.01	-67.18	-1.19	-2.64	-13.00	-58.01
1673.00	-57.29	-63.19	9.80	-3.90	-13.00	-44.29

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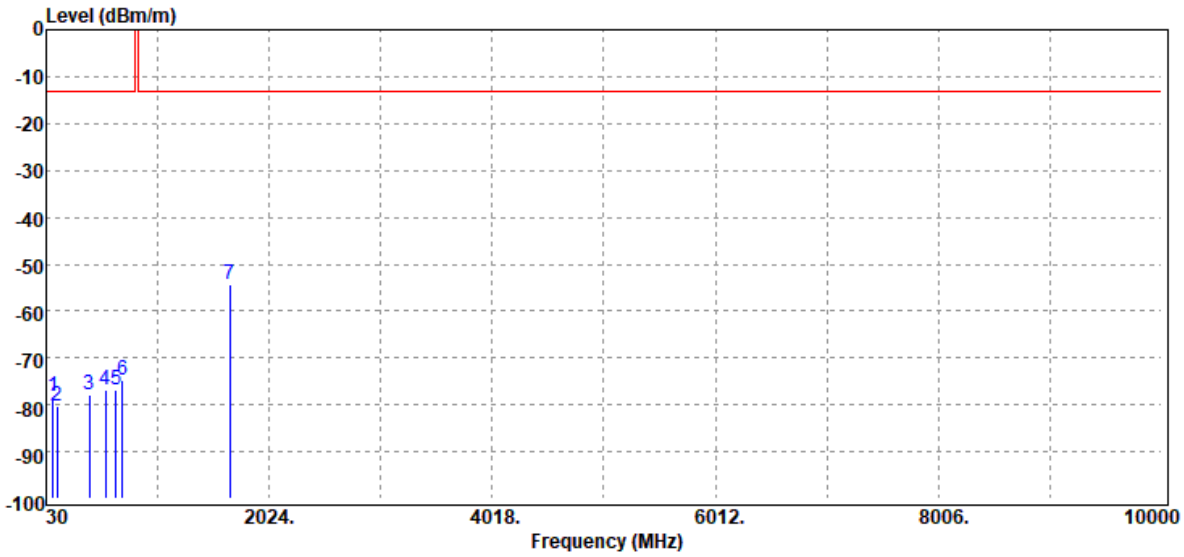
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:LTE B5	Test Date	:2020-12-22
Test Mode	:Tx CH Mid	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:836.5 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
94.02	-78.27	-71.88	-5.47	-0.92	-13.00	-65.27
127.00	-80.37	-71.71	-7.65	-1.01	-13.00	-67.37
416.06	-77.90	-74.44	-1.46	-2.00	-13.00	-64.90
560.59	-76.74	-73.09	-1.37	-2.28	-13.00	-63.74
655.65	-76.72	-72.81	-1.31	-2.60	-13.00	-63.72
711.91	-74.75	-70.85	-1.38	-2.52	-13.00	-61.75
1673.00	-54.46	-60.36	9.80	-3.90	-13.00	-41.46

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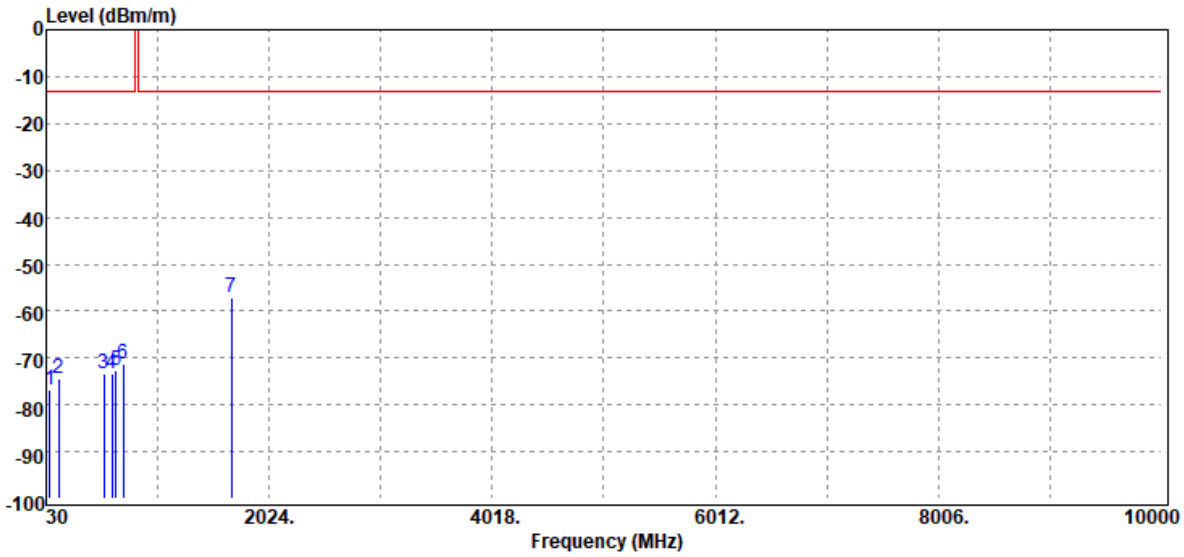
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:LTE B5	Test Date	:2020-12-22
Test Mode	:Tx CH High	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:844 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
61.04	-76.88	-61.52	-14.61	-0.75	-13.00	-63.88
143.49	-74.47	-65.49	-7.84	-1.14	-13.00	-61.47
546.04	-73.40	-70.11	-1.20	-2.09	-13.00	-60.40
616.85	-73.31	-69.46	-1.82	-2.03	-13.00	-60.31
655.65	-72.79	-68.88	-1.31	-2.60	-13.00	-59.79
715.79	-71.18	-67.28	-1.32	-2.58	-13.00	-58.18
1688.00	-57.23	-63.11	9.80	-3.92	-13.00	-44.23

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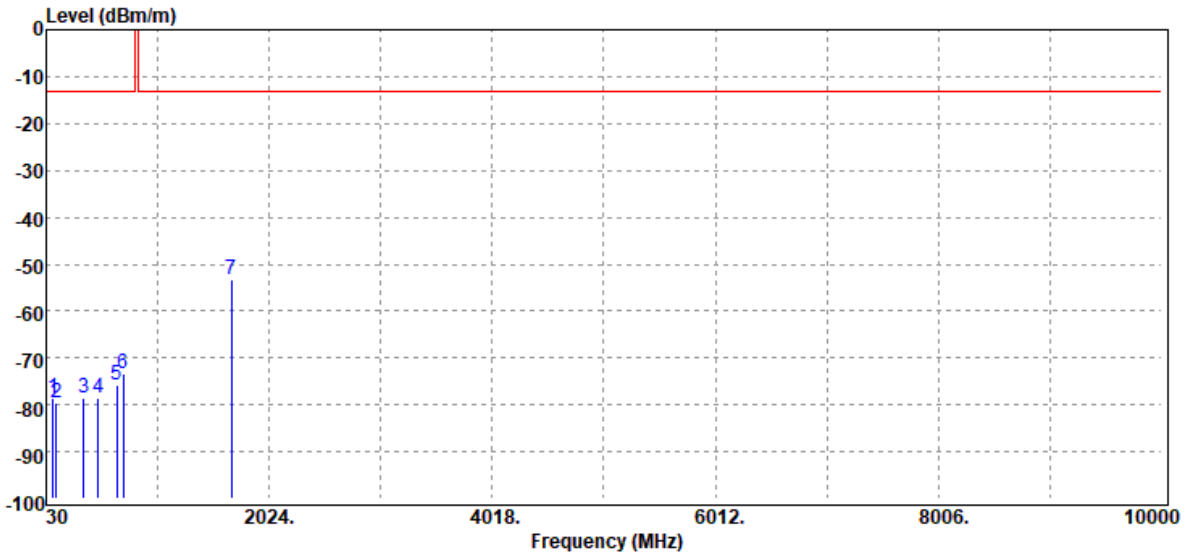
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:LTE B5	Test Date	:2020-12-22
Test Mode	:Tx CH High	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:844 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
93.05	-78.41	-71.94	-5.55	-0.92	-13.00	-65.41
120.21	-79.65	-71.24	-7.35	-1.06	-13.00	-66.65
367.56	-78.38	-75.08	-1.57	-1.73	-13.00	-65.38
493.66	-78.54	-74.75	-1.63	-2.16	-13.00	-65.54
658.56	-75.68	-71.69	-1.33	-2.66	-13.00	-62.68
719.67	-73.50	-69.67	-1.19	-2.64	-13.00	-60.50
1688.00	-53.37	-59.25	9.80	-3.92	-13.00	-40.37

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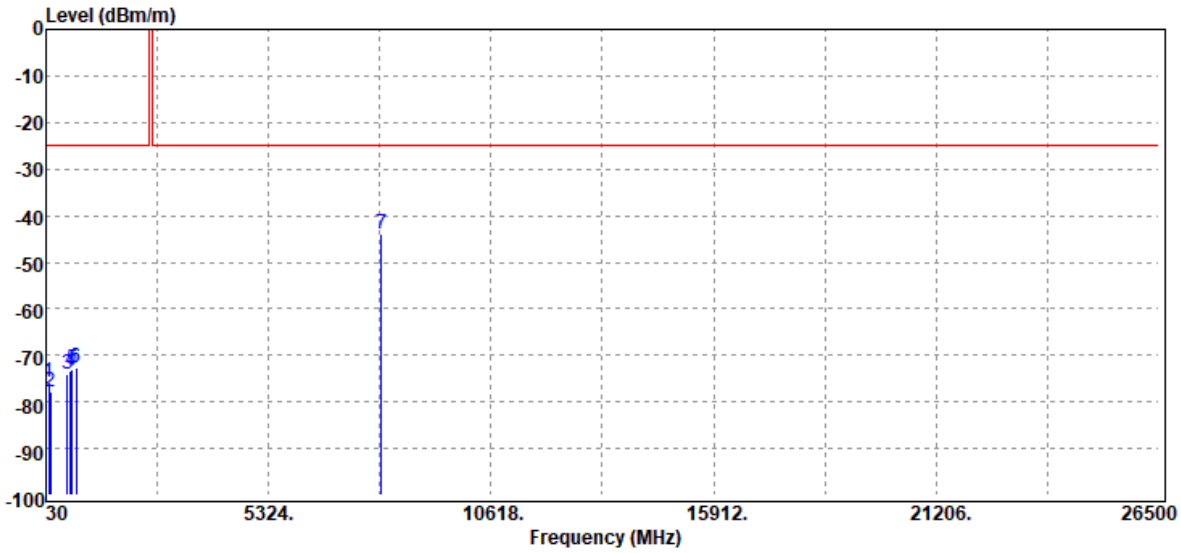
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:LTE B7	Test Date	:2020-12-22
Test Mode	:Tx CH Low	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:2510 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
94.99	-75.93	-69.43	-5.57	-0.93	-25.00	-50.93
139.61	-77.72	-68.70	-7.93	-1.09	-25.00	-52.72
547.01	-74.12	-70.79	-1.21	-2.12	-25.00	-49.12
614.91	-73.37	-69.51	-1.85	-2.01	-25.00	-48.37
653.71	-73.01	-69.13	-1.32	-2.56	-25.00	-48.01
744.89	-72.68	-68.06	-1.78	-2.84	-25.00	-47.68
8000.00	-44.06	-46.35	11.10	-8.81	-25.00	-19.06

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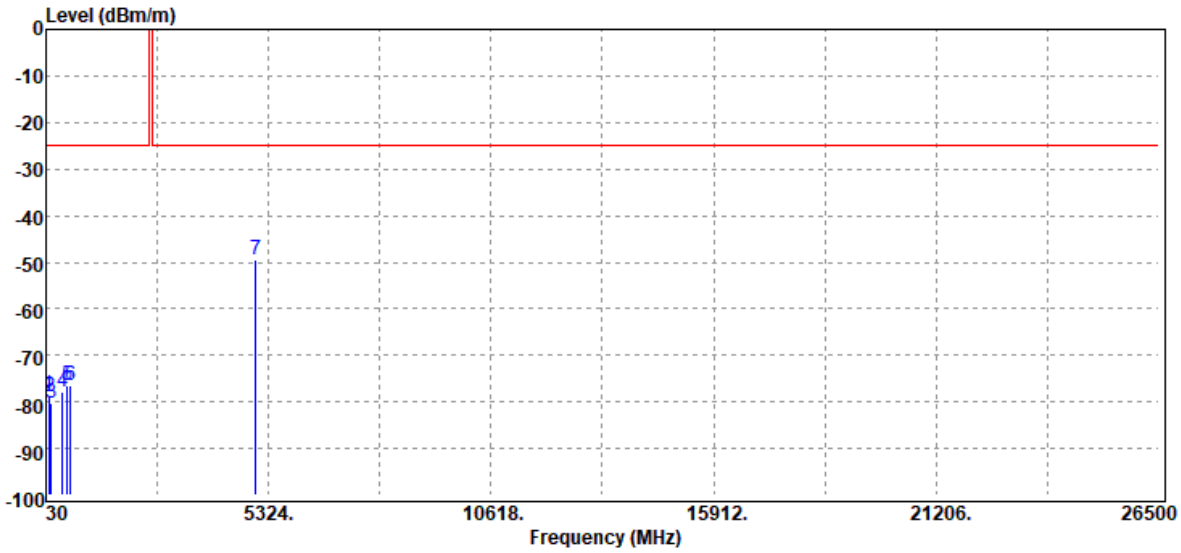
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:LTE B7	Test Date	:2020-12-22
Test Mode	:Tx CH Low	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:2510 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
93.05	-78.43	-71.96	-5.55	-0.92	-25.00	-53.43
120.21	-79.01	-70.60	-7.35	-1.06	-25.00	-54.01
153.19	-80.37	-71.83	-7.32	-1.22	-25.00	-55.37
419.94	-77.76	-74.22	-1.46	-2.08	-25.00	-52.76
532.46	-76.57	-73.37	-1.35	-1.85	-25.00	-51.57
607.15	-76.47	-72.52	-1.90	-2.05	-25.00	-51.47
5020.00	-49.60	-55.41	12.66	-6.85	-25.00	-24.60

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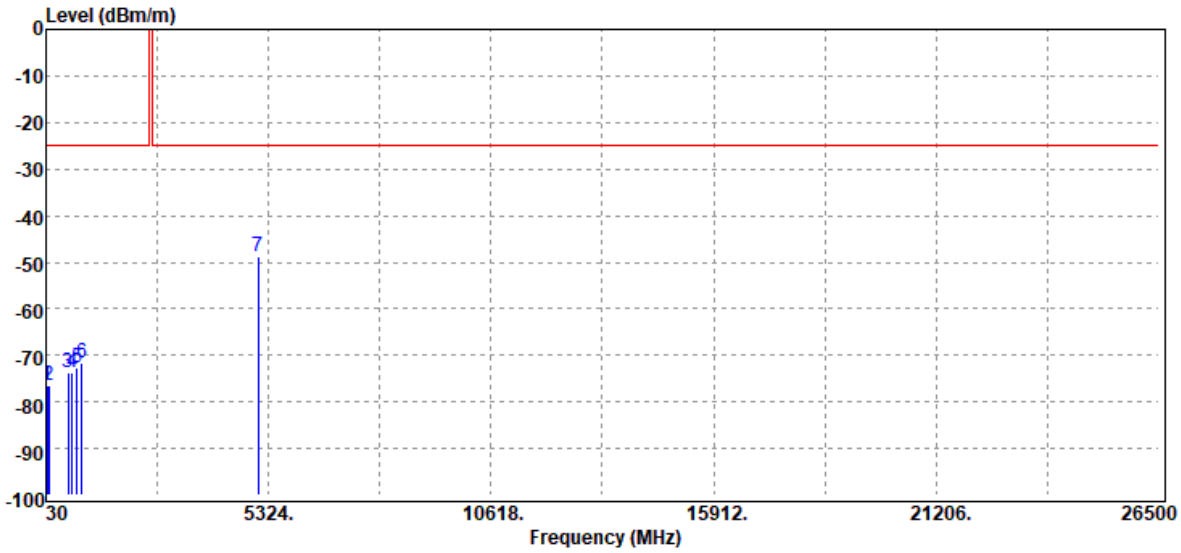
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:LTE B7	Test Date	:2020-12-22
Test Mode	:Tx CH Mid	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:2535 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
61.04	-76.34	-60.98	-14.61	-0.75	-25.00	-51.34
97.90	-76.53	-69.80	-5.79	-0.94	-25.00	-51.53
563.50	-73.60	-69.94	-1.38	-2.28	-25.00	-48.60
650.80	-73.56	-69.70	-1.36	-2.50	-25.00	-48.56
760.41	-72.77	-68.32	-1.81	-2.64	-25.00	-47.77
881.66	-71.55	-67.10	-1.45	-3.00	-25.00	-46.55
5070.00	-48.76	-54.52	12.56	-6.80	-25.00	-23.76

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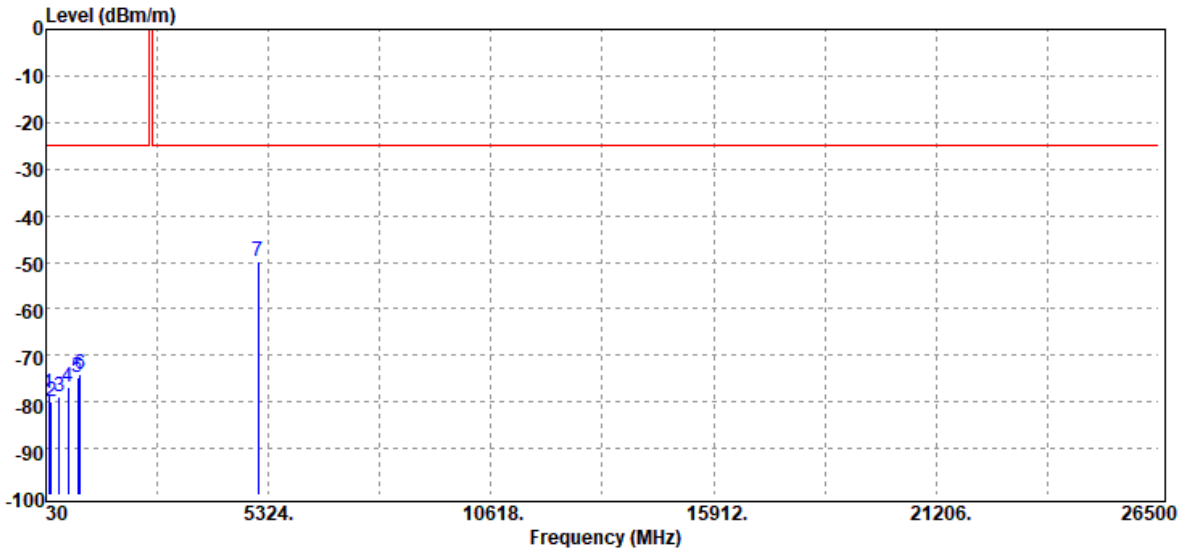
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:LTE B7	Test Date	:2020-12-22
Test Mode	:Tx CH Mid	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:2535 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
97.90	-78.23	-71.50	-5.79	-0.94	-25.00	-53.23
146.40	-79.97	-71.07	-7.72	-1.18	-25.00	-54.97
352.04	-78.85	-75.50	-1.54	-1.81	-25.00	-53.85
551.86	-76.78	-73.30	-1.26	-2.22	-25.00	-51.78
778.84	-74.64	-70.66	-1.72	-2.26	-25.00	-49.64
839.95	-74.16	-69.64	-1.64	-2.88	-25.00	-49.16
5070.00	-49.74	-55.50	12.56	-6.80	-25.00	-24.74

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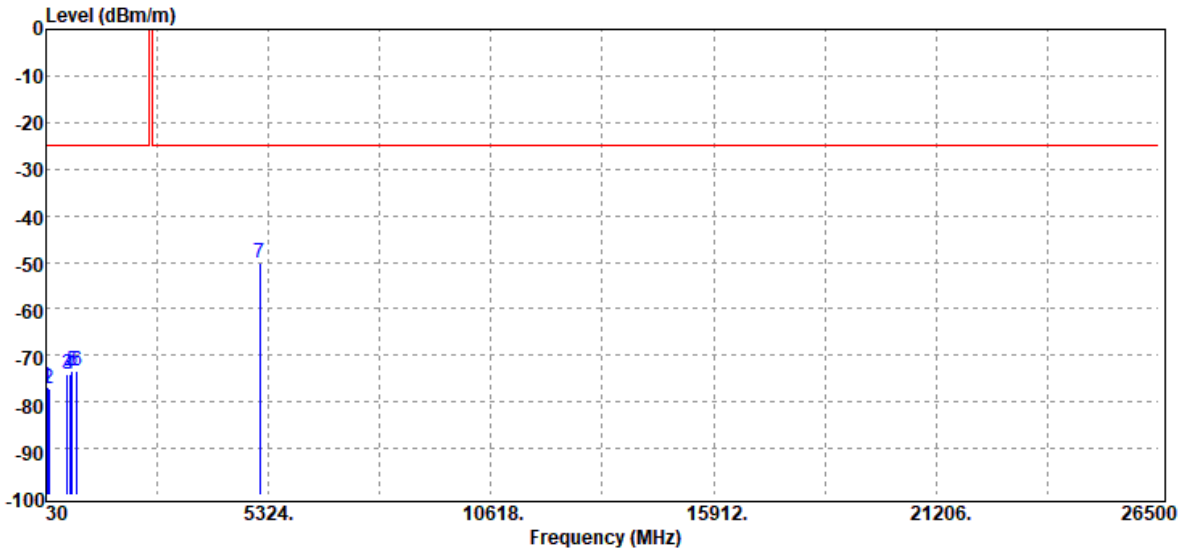
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:LTE B7	Test Date	:2020-12-22
Test Mode	:Tx CH High	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:2560 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
61.04	-76.94	-61.58	-14.61	-0.75	-25.00	-51.94
100.81	-77.21	-70.06	-6.20	-0.95	-25.00	-52.21
531.49	-74.15	-70.96	-1.35	-1.84	-25.00	-49.15
587.75	-73.93	-69.60	-1.75	-2.58	-25.00	-48.93
650.80	-73.50	-69.64	-1.36	-2.50	-25.00	-48.50
774.96	-73.40	-69.34	-1.84	-2.22	-25.00	-48.40
5120.00	-50.00	-55.73	12.58	-6.85	-25.00	-25.00

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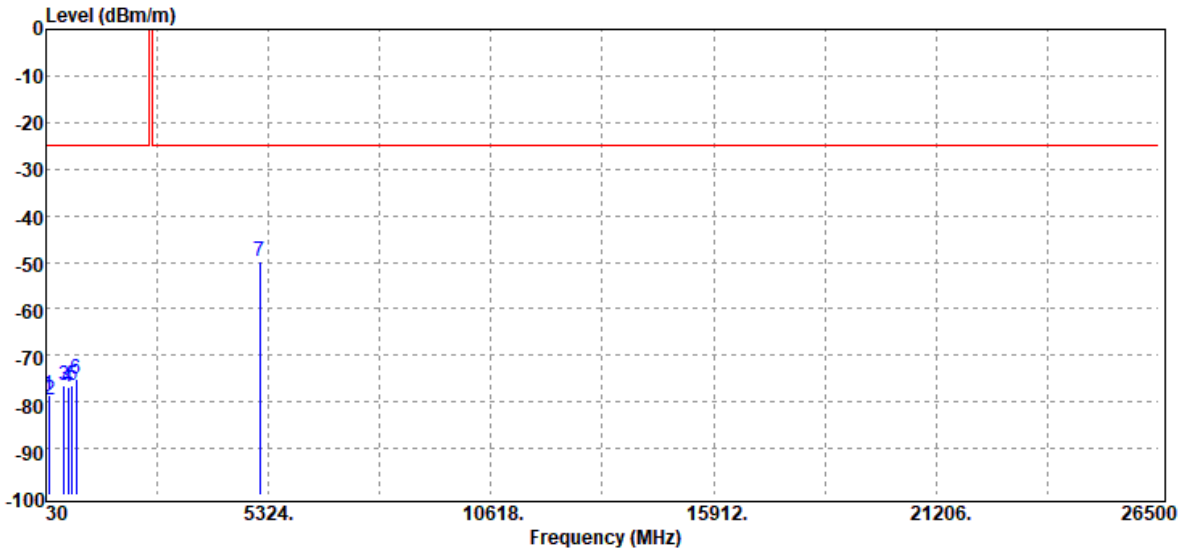
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:LTE B7	Test Date	:2020-12-22
Test Mode	:Tx CH High	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:2560 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
90.14	-78.58	-71.87	-5.81	-0.90	-25.00	-53.58
119.24	-79.68	-71.30	-7.32	-1.06	-25.00	-54.68
459.71	-76.63	-72.77	-1.98	-1.88	-25.00	-51.63
551.86	-76.80	-73.32	-1.26	-2.22	-25.00	-51.80
648.86	-76.63	-72.76	-1.38	-2.49	-25.00	-51.63
741.01	-74.93	-70.40	-1.75	-2.78	-25.00	-49.93
5120.00	-49.71	-55.44	12.58	-6.85	-25.00	-24.71

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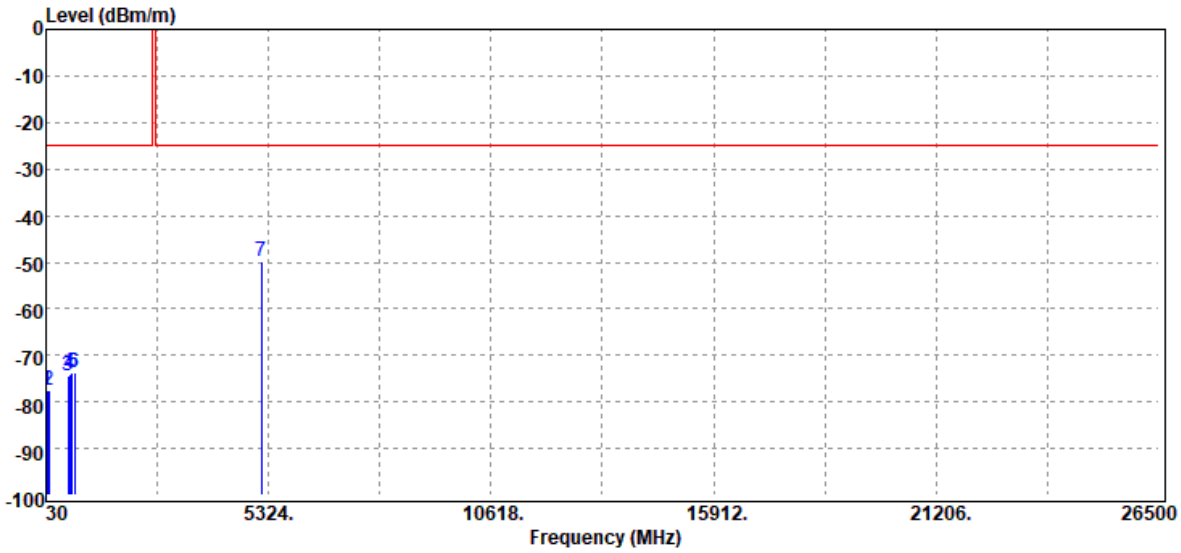
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:LTE B38	Test Date	:2020-12-22
Test Mode	:Tx CH Low	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:2580 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
59.10	-77.64	-61.73	-15.18	-0.73	-25.00	-52.64
97.90	-77.63	-70.90	-5.79	-0.94	-25.00	-52.63
550.89	-74.50	-71.05	-1.24	-2.21	-25.00	-49.50
592.60	-73.98	-69.64	-1.82	-2.52	-25.00	-48.98
650.80	-73.78	-69.92	-1.36	-2.50	-25.00	-48.78
718.70	-73.72	-69.87	-1.22	-2.63	-25.00	-48.72
5160.00	-49.74	-55.49	12.76	-7.01	-25.00	-24.74

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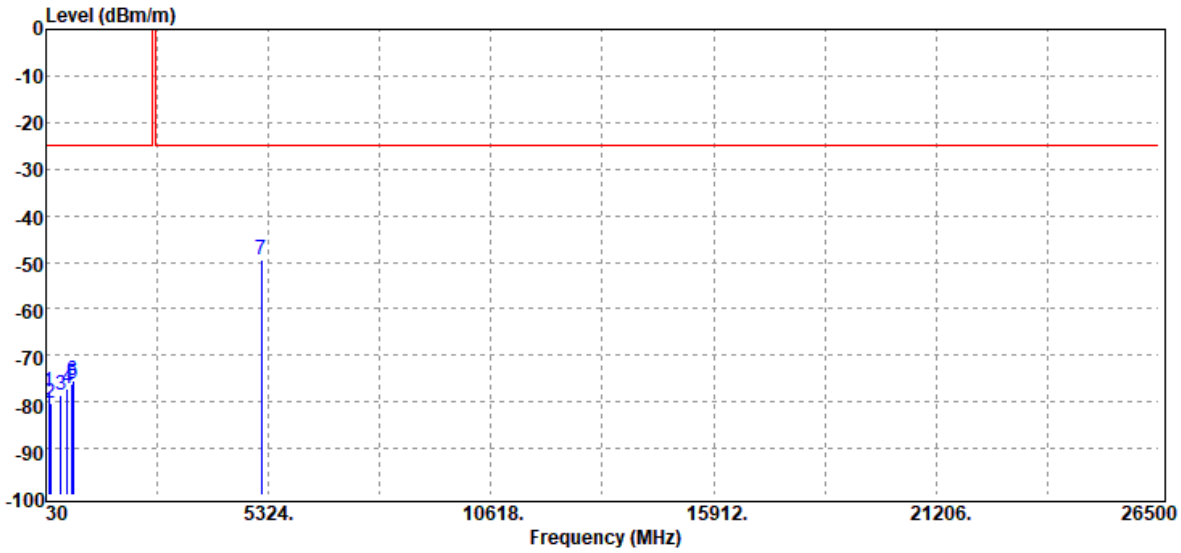
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:LTE B38	Test Date	:2020-12-22
Test Mode	:Tx CH Low	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:2580 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
100.81	-77.74	-70.59	-6.20	-0.95	-25.00	-52.74
144.46	-80.11	-71.17	-7.79	-1.15	-25.00	-55.11
388.90	-78.49	-75.18	-1.51	-1.80	-25.00	-53.49
534.40	-77.19	-73.96	-1.36	-1.87	-25.00	-52.19
653.71	-76.28	-72.40	-1.32	-2.56	-25.00	-51.28
677.96	-75.58	-71.68	-1.46	-2.44	-25.00	-50.58
5160.00	-49.61	-55.36	12.76	-7.01	-25.00	-24.61

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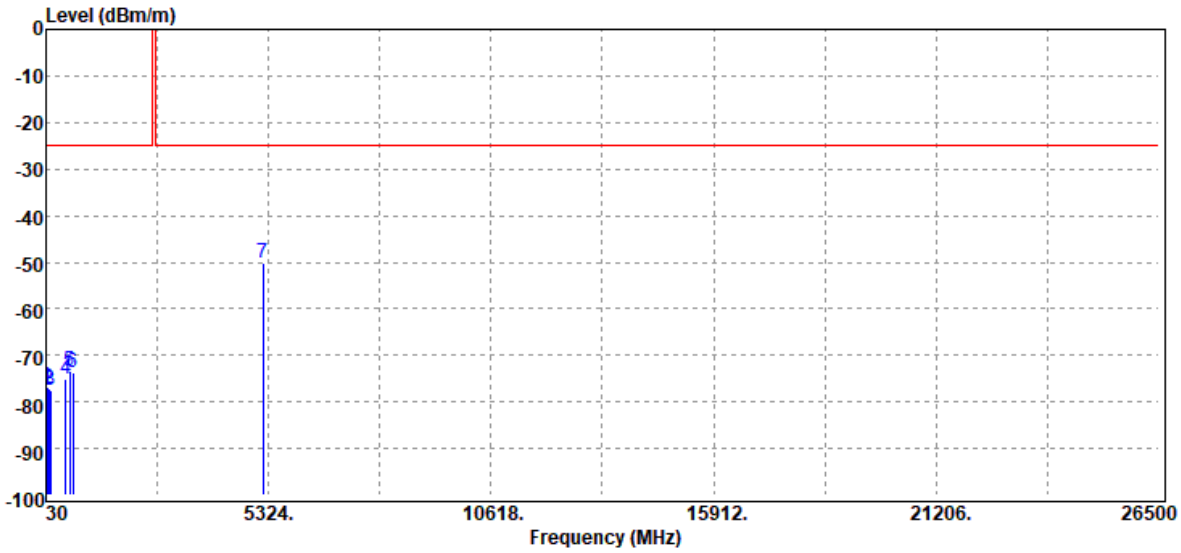
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:LTE B38	Test Date	:2020-12-22
Test Mode	:Tx CH Mid	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:2595 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
61.04	-76.68	-61.32	-14.61	-0.75	-25.00	-51.68
97.90	-77.33	-70.60	-5.79	-0.94	-25.00	-52.33
144.46	-77.54	-68.60	-7.79	-1.15	-25.00	-52.54
498.51	-75.00	-71.27	-1.50	-2.23	-25.00	-50.00
599.39	-73.49	-69.34	-1.86	-2.29	-25.00	-48.49
662.44	-73.58	-69.51	-1.35	-2.72	-25.00	-48.58
5190.00	-50.05	-55.86	12.94	-7.13	-25.00	-25.05

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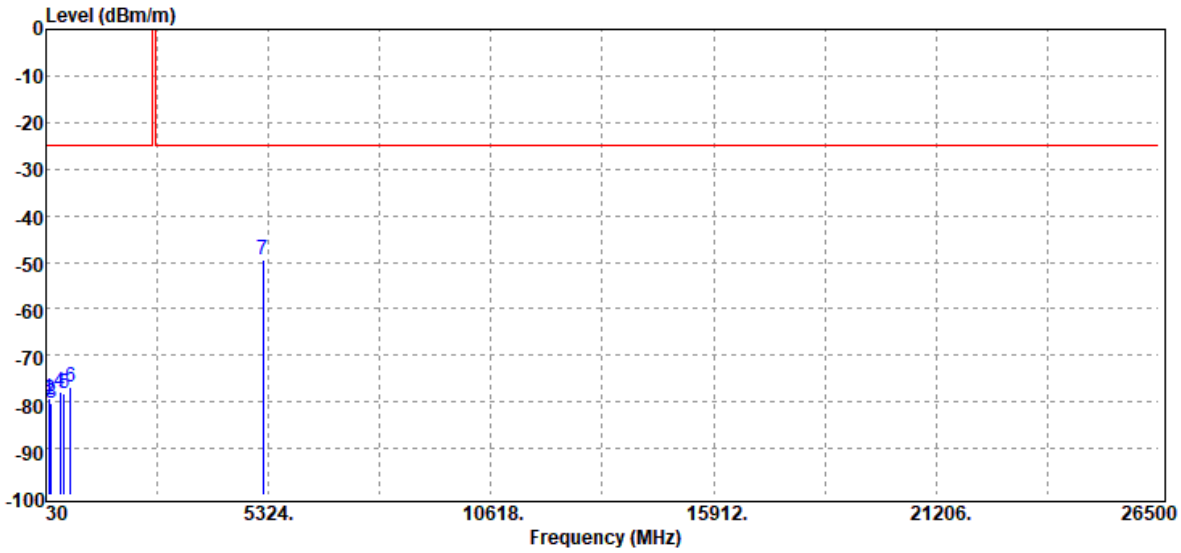
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:LTE B38	Test Date	:2020-12-22
Test Mode	:Tx CH Mid	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:2595 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
88.20	-79.35	-72.26	-6.20	-0.89	-25.00	-54.35
125.06	-79.75	-71.24	-7.49	-1.02	-25.00	-54.75
148.34	-80.11	-71.27	-7.64	-1.20	-25.00	-55.11
359.80	-78.00	-74.79	-1.50	-1.71	-25.00	-53.00
469.41	-78.05	-74.23	-1.81	-2.01	-25.00	-53.05
605.21	-76.88	-72.88	-1.89	-2.11	-25.00	-51.88
5190.00	-49.33	-55.14	12.94	-7.13	-25.00	-24.33

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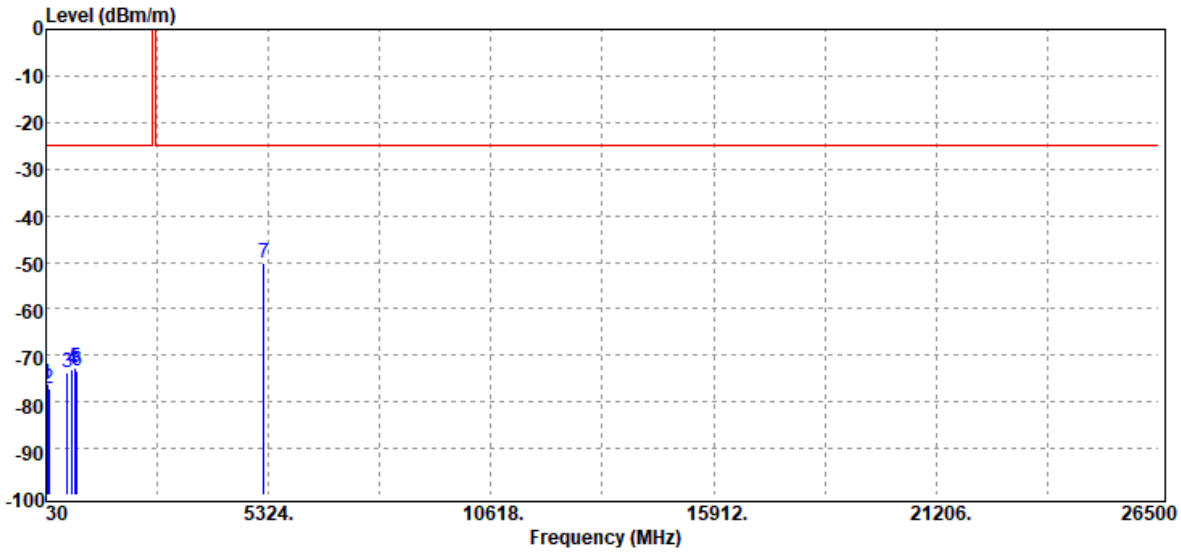
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:LTE B38	Test Date	:2020-12-22
Test Mode	:Tx CH High	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:2610 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
61.04	-76.19	-60.83	-14.61	-0.75	-25.00	-51.19
98.87	-77.21	-70.37	-5.90	-0.94	-25.00	-52.21
541.19	-73.69	-70.47	-1.26	-1.96	-25.00	-48.69
658.56	-73.17	-69.18	-1.33	-2.66	-25.00	-48.17
728.40	-72.73	-68.62	-1.45	-2.66	-25.00	-47.73
776.90	-73.30	-69.28	-1.78	-2.24	-25.00	-48.30
5220.00	-50.24	-56.19	13.12	-7.17	-25.00	-25.24

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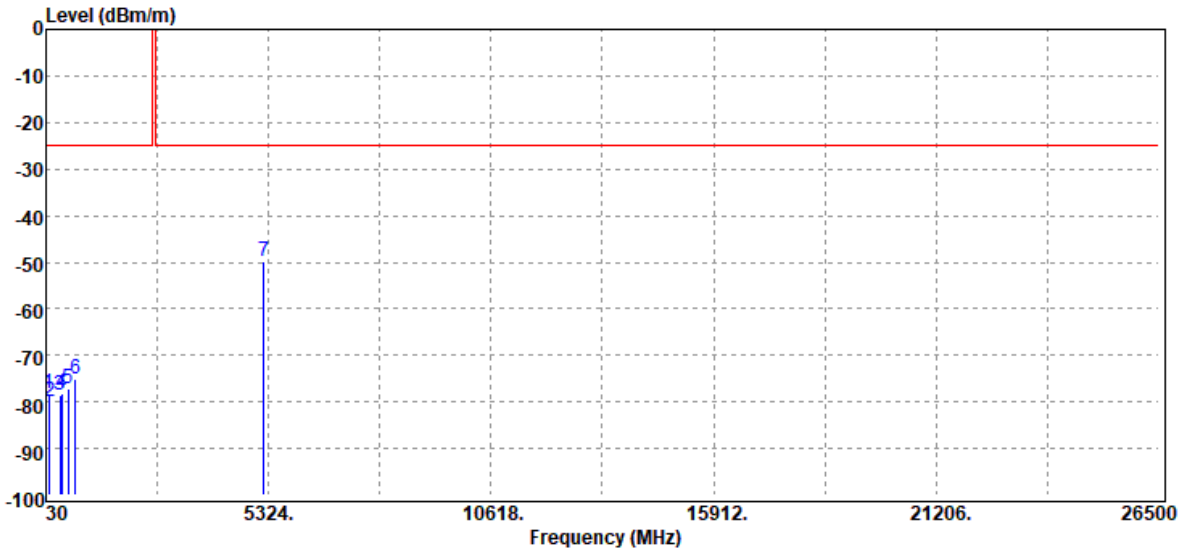
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:LTE B38	Test Date	:2020-12-22
Test Mode	:Tx CH High	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:2610 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
97.90	-78.08	-71.35	-5.79	-0.94	-25.00	-53.08
120.21	-80.10	-71.69	-7.35	-1.06	-25.00	-55.10
356.89	-78.60	-75.35	-1.51	-1.74	-25.00	-53.60
411.21	-78.19	-74.90	-1.39	-1.90	-25.00	-53.19
558.65	-77.21	-73.58	-1.36	-2.27	-25.00	-52.21
733.25	-75.06	-70.82	-1.55	-2.69	-25.00	-50.06
5220.00	-49.91	-55.86	13.12	-7.17	-25.00	-24.91

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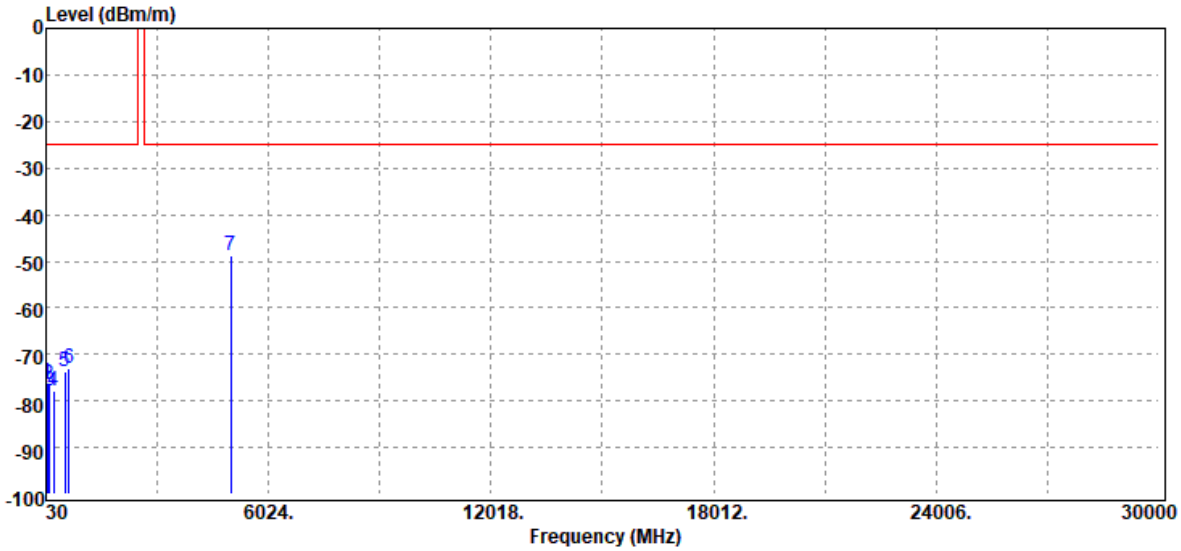
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:LTE B41	Test Date	:2020-12-22
Test Mode	:Tx CH Low	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:2506 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
61.04	-76.04	-60.68	-14.61	-0.75	-25.00	-51.04
97.90	-76.57	-69.84	-5.79	-0.94	-25.00	-51.57
134.76	-78.00	-69.06	-7.91	-1.03	-25.00	-53.00
240.49	-77.76	-74.56	-1.72	-1.48	-25.00	-52.76
544.10	-73.70	-70.45	-1.21	-2.04	-25.00	-48.70
657.59	-73.05	-69.09	-1.32	-2.64	-25.00	-48.05
5012.00	-48.66	-54.48	12.68	-6.86	-25.00	-23.66

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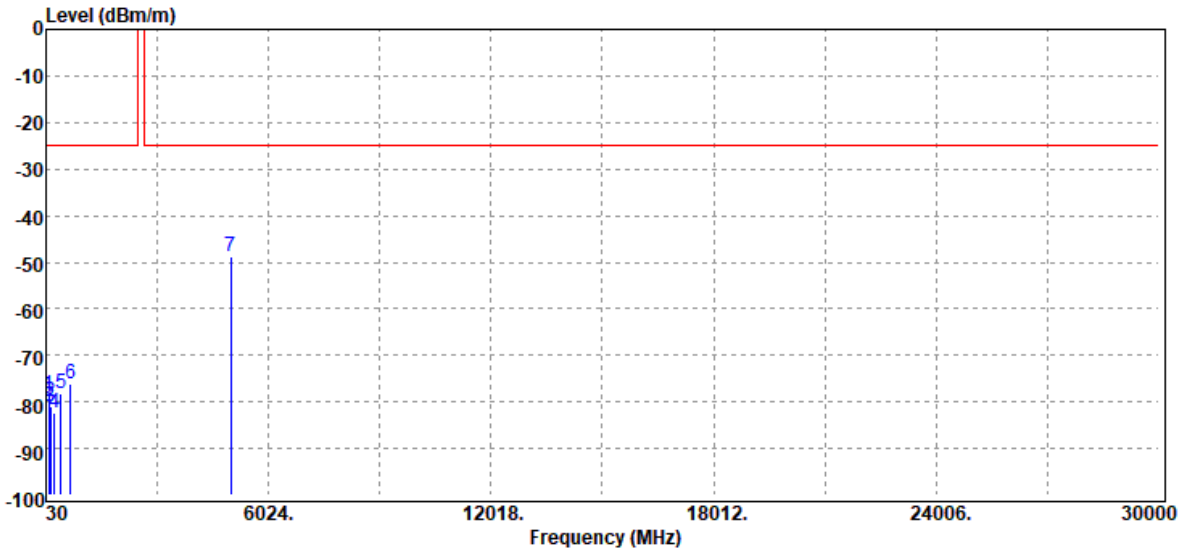
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:LTE B41	Test Date	:2020-12-22
Test Mode	:Tx CH Low	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:2506 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
97.90	-78.49	-71.76	-5.79	-0.94	-25.00	-53.49
122.15	-79.81	-71.36	-7.40	-1.05	-25.00	-54.81
144.46	-80.84	-71.90	-7.79	-1.15	-25.00	-55.84
262.80	-82.42	-79.24	-1.65	-1.53	-25.00	-57.42
420.91	-78.19	-74.62	-1.48	-2.09	-25.00	-53.19
689.60	-76.23	-72.73	-1.45	-2.05	-25.00	-51.23
5012.00	-48.74	-54.56	12.68	-6.86	-25.00	-23.74

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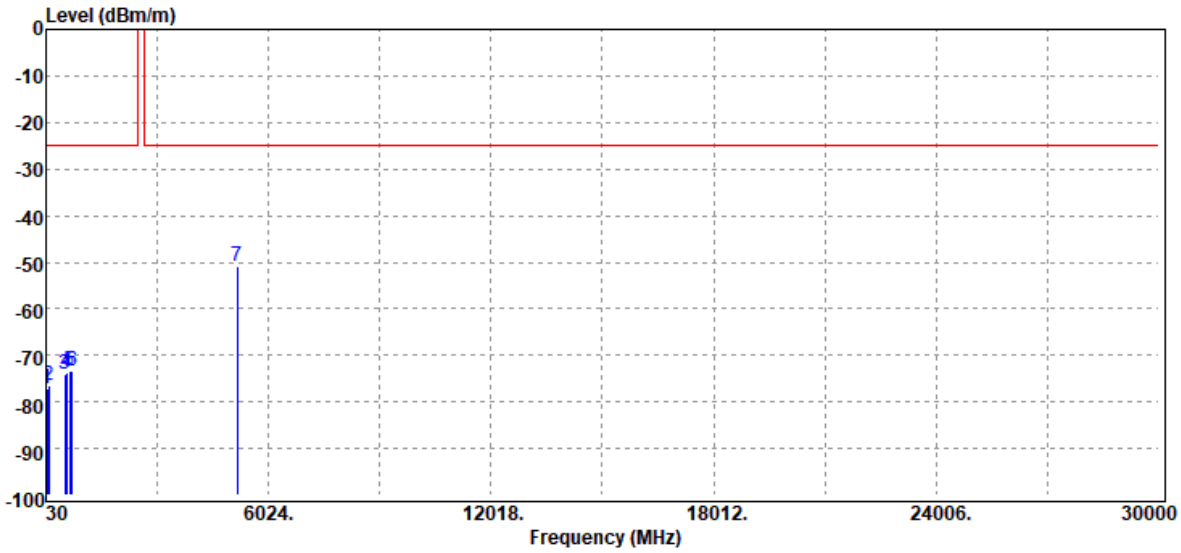
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:LTE B41	Test Date	:2020-12-22
Test Mode	:Tx CH Mid	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:2593 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
61.04	-77.27	-61.91	-14.61	-0.75	-25.00	-52.27
97.90	-76.64	-69.91	-5.79	-0.94	-25.00	-51.64
537.31	-74.08	-70.86	-1.32	-1.90	-25.00	-49.08
587.75	-73.74	-69.41	-1.75	-2.58	-25.00	-48.74
668.26	-73.44	-69.19	-1.46	-2.79	-25.00	-48.44
730.34	-73.22	-69.09	-1.47	-2.66	-25.00	-48.22
5186.00	-50.85	-56.66	12.92	-7.11	-25.00	-25.85

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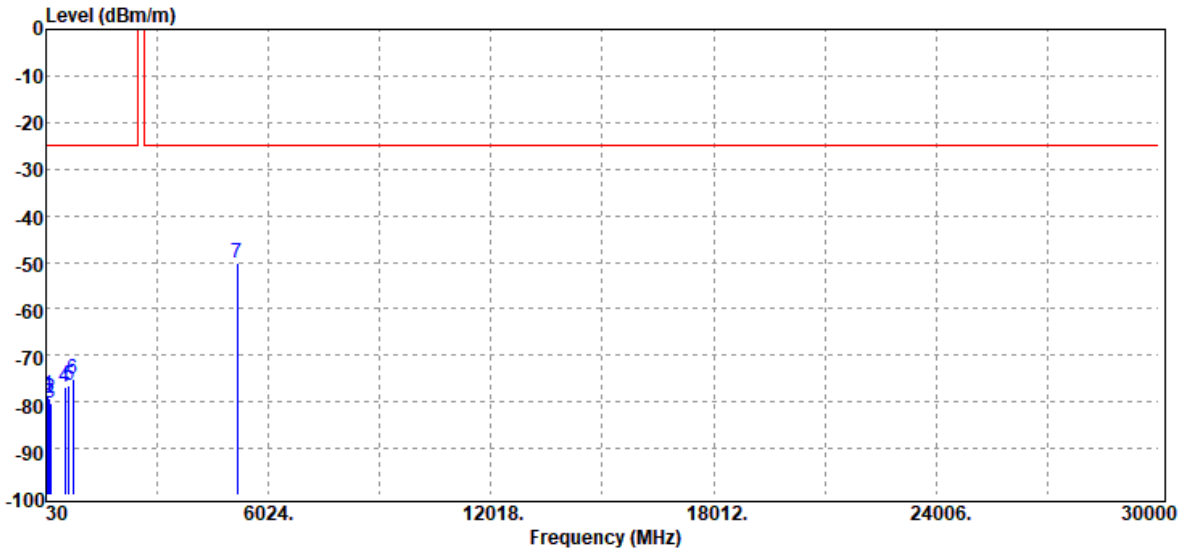
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:LTE B41	Test Date	:2020-12-22
Test Mode	:Tx CH Mid	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:2593 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
93.05	-78.62	-72.15	-5.55	-0.92	-25.00	-53.62
122.15	-79.35	-70.90	-7.40	-1.05	-25.00	-54.35
148.34	-80.24	-71.40	-7.64	-1.20	-25.00	-55.24
544.10	-76.98	-73.73	-1.21	-2.04	-25.00	-51.98
648.86	-76.51	-72.64	-1.38	-2.49	-25.00	-51.51
752.65	-75.05	-70.45	-1.75	-2.85	-25.00	-50.05
5186.00	-50.10	-55.91	12.92	-7.11	-25.00	-25.10

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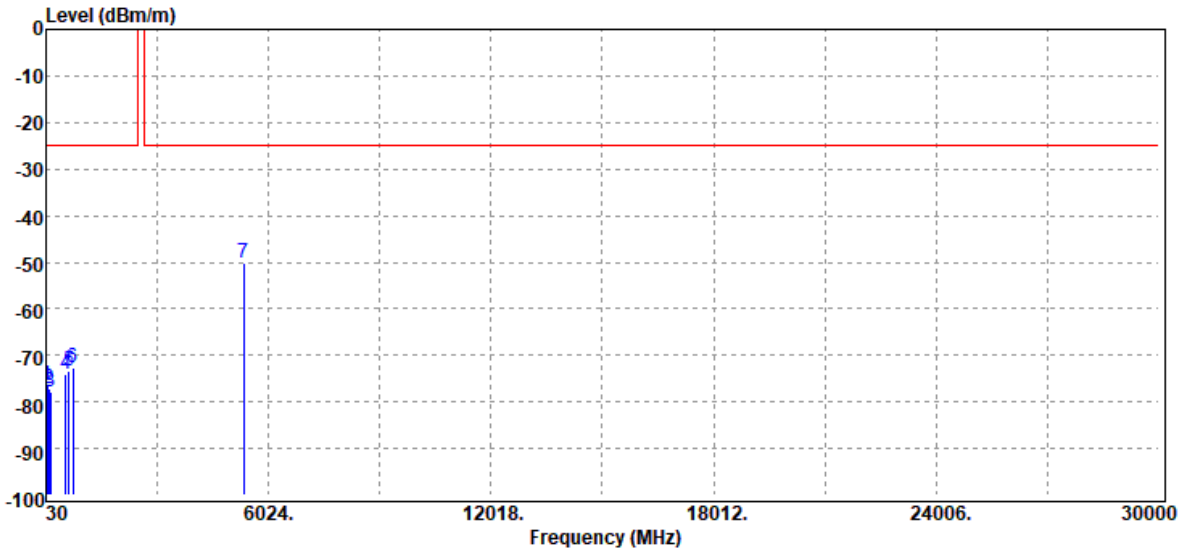
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:LTE B41	Test Date	:2020-12-22
Test Mode	:Tx CH High	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:2680 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
59.10	-76.37	-60.46	-15.18	-0.73	-25.00	-51.37
99.84	-77.13	-70.17	-6.01	-0.95	-25.00	-52.13
143.49	-77.89	-68.91	-7.84	-1.14	-25.00	-52.89
555.74	-74.21	-70.62	-1.34	-2.25	-25.00	-49.21
652.74	-73.22	-69.35	-1.33	-2.54	-25.00	-48.22
749.74	-72.60	-67.96	-1.73	-2.91	-25.00	-47.60
5360.00	-50.16	-56.60	13.48	-7.04	-25.00	-25.16

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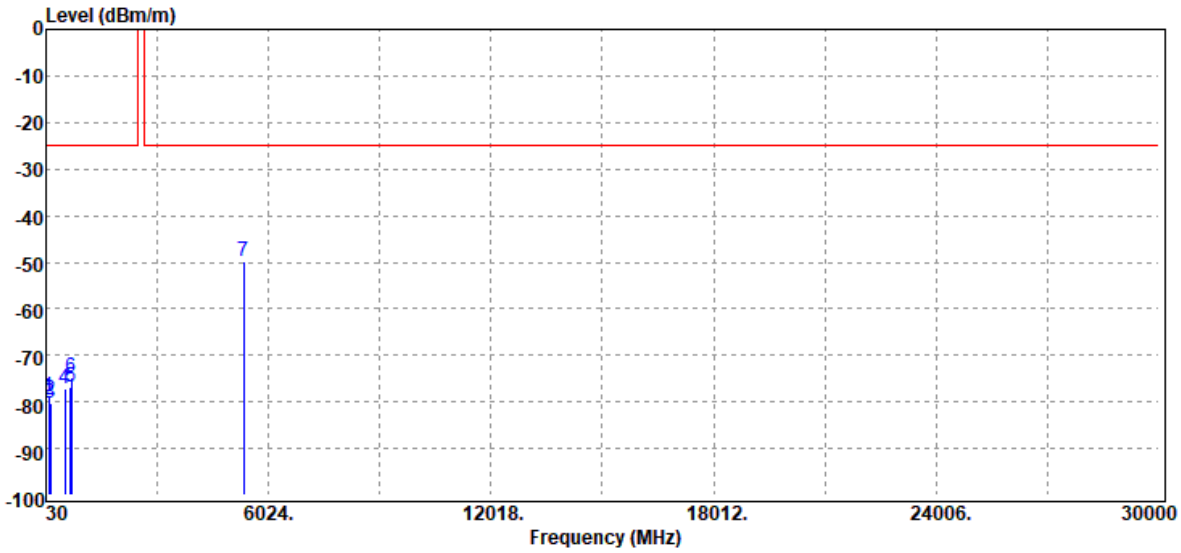
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:LTE B41	Test Date	:2020-12-22
Test Mode	:Tx CH High	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:2680 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
99.84	-78.79	-71.83	-6.01	-0.95	-25.00	-53.79
125.06	-79.48	-70.97	-7.49	-1.02	-25.00	-54.48
154.16	-80.28	-71.79	-7.27	-1.22	-25.00	-55.28
548.95	-77.10	-73.71	-1.22	-2.17	-25.00	-52.10
682.81	-76.72	-73.02	-1.44	-2.26	-25.00	-51.72
721.61	-74.89	-70.98	-1.26	-2.65	-25.00	-49.89
5360.00	-49.87	-56.31	13.48	-7.04	-25.00	-24.87

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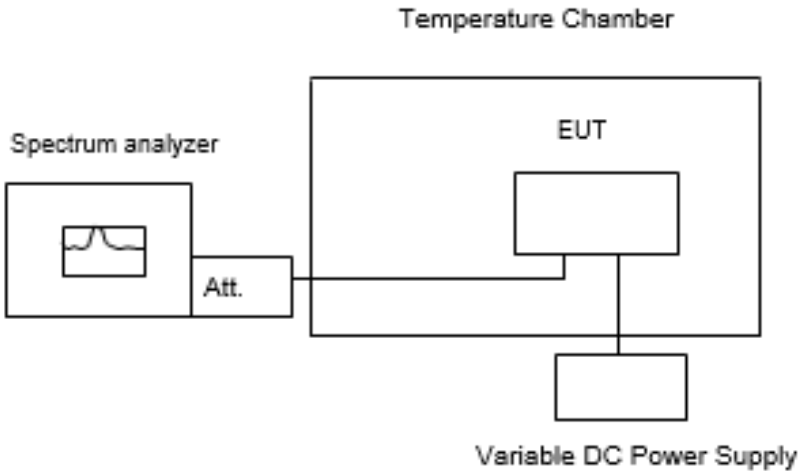
10 FREQUENCY STABILITY MEASUREMENT

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℃. 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	04/21/2020	04/20/2021
DC Power Supply	Agilent	E3640A	KR93300208	08/19/2020	08/18/2021
Radio Communication Analyer	Anritsu	MT8815B	6200711454	04/01/2020	03/31/2021
Temperature Chamber	TERCHY	MHG-120LF	911009	05/20/2020	05/19/2021
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2020	01/01/2021
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2020	01/01/2021
Splitter	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-018	01/02/2020	01/01/2021
Radio Communication Analyer	Anritsu	MT8821C	6261786084	01/18/2020	01/17/2021

10.5 Measurement Result

Note: *The battery is rated 3.85V dc.*

Test Date: Dec. 16, 2020

GPRS 850 Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
4.235	20	836.599997	-3	2091
3.85	20	836.599991	-9	2091
3.465	20	836.600005	5	2091
3.1 (End point)	20	836.600008	8	2091
FREQUENCY ERROR vs. Temp.				
3.85	50	836.599999	-1	2091
3.85	40	836.600006	6	2091
3.85	30	836.599992	-8	2091
3.85	20	836.600003	3	2091
3.85	10	836.600007	7	2091
3.85	0	836.599991	-9	2091
3.85	-10	836.599996	-4	2091
3.85	-20	836.599995	-5	2091
3.85	-30	836.59999	-10	2091

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GPRS 1900 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
4.235	20	1879.999999	-1	4700
3.85	20	1880.00001	10	4700
3.465	20	1879.999995	-5	4700
3.1 (End point)	20	1879.999993	-7	4700
FREQUENCY ERROR vs. Temp.				
3.85	50	1879.999991	-9	4700
3.85	40	1880.000007	7	4700
3.85	30	1879.999999	-1	4700
3.85	20	1879.999995	-5	4700
3.85	10	1879.999996	-4	4700
3.85	0	1880.000003	3	4700
3.85	-10	1879.999993	-7	4700
3.85	-20	1879.999992	-8	4700
3.85	-30	1880.000001	1	4700
WCDMA II Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
4.235	20	1880.000008	8	4700
3.85	20	1879.99999	-10	4700
3.465	20	1879.999997	-3	4700
3.1 (End point)	20	1880.000009	9	4700
FREQUENCY ERROR vs. Temp.				
3.85	50	1879.999994	-6	4700
3.85	40	1880.000007	7	4700
3.85	30	1880.000009	9	4700
3.85	20	1880.000008	8	4700
3.85	10	1880.000005	5	4700
3.85	0	1879.999997	-3	4700
3.85	-10	1879.999996	-4	4700
3.85	-20	1879.999991	-9	4700
3.85	-30	1879.99999	-10	4700

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WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
4.235	20	836.599991	-9	2091
3.85	20	836.600007	7	2091
3.465	20	836.600002	2	2091
3.1 (End point)	20	836.599997	-3	2091
FREQUENCY ERROR vs. Temp.				
3.85	50	836.599992	-8	2091
3.85	40	836.600002	2	2091
3.85	30	836.599995	-5	2091
3.85	20	836.599999	-1	2091
3.85	10	836.59999	-10	2091
3.85	0	836.600006	6	2091
3.85	-10	836.600007	7	2091
3.85	-20	836.600004	4	2091
3.85	-30	836.600008	8	2091

Reference Freq.:	LTE B2 Mid Channel		1880	MHz 10M QPSK CH 18900
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
4.235	25	1880.000007	7	4700
3.85	25	1879.999997	-3	4700
3.465	25	1880.000006	6	4700
3.1 (End Point)	25	1880.000009	9	4700
Freq. ERROR vs. Temp.				
3.85	-30	1879.999996	-4	4700
3.85	-20	1880.000005	5	4700
3.85	-10	1880.000004	4	4700
3.85	0	1880.000008	8	4700
3.85	10	1880.000010	10	4700
3.85	20	1880.000007	7	4700
3.85	30	1879.999994	-6	4700
3.85	40	1880.000001	1	4700
3.85	50	1879.999999	-1	4700

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Reference Freq.:	LTE B5 Mid Channel		836.5	MHz 10M QPSK CH 20525
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
4.235	25	836.499996	-4	2091
3.85	25	836.499995	-5	2091
3.465	25	836.500006	6	2091
3.1 (End Point)	25	836.499993	-7	2091
Freq. ERROR vs. Temp.				
3.85	-30	836.500002	2	2091
3.85	-20	836.499993	-7	2091
3.85	-10	836.499997	-3	2091
3.85	0	836.500009	9	2091
3.85	10	836.500005	5	2091
3.85	20	836.500004	4	2091
3.85	30	836.499992	-8	2091
3.85	40	836.499997	-3	2091
3.85	50	836.500003	3	2091

Reference Freq.:	LTE B7 Mid Channel		2535	MHz 10M QPSK CH 21100
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
4.235	25	2534.999999	-1	6338
3.85	25	2534.999996	-4	6338
3.465	25	2534.999992	-8	6338
3.1 (End Point)	25	2535.000010	10	6338
Freq. ERROR vs. Temp.				
3.85	-30	2535.000003	3	6338
3.85	-20	2534.999991	-9	6338
3.85	-10	2535.000002	2	6338
3.85	0	2534.999999	-1	6338
3.85	10	2534.999992	-8	6338
3.85	20	2534.999995	-5	6338
3.85	30	2535.000007	7	6338
3.85	40	2534.999995	-5	6338
3.85	50	2534.999994	-6	6338

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Reference Freq.:	LTE B38 Mid Channel		2595	MHz 10M QPSK CH 38000
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
4.235	25	2595.000009	9	6488
3.85	25	2594.999995	-5	6488
3.465	25	2594.999992	-8	6488
3.1 (End Point)	25	2594.999996	-4	6488
Freq. ERROR vs. Temp.				
3.85	-30	2595.000002	2	6488
3.85	-20	2595.000006	6	6488
3.85	-10	2594.999993	-7	6488
3.85	0	2594.999991	-9	6488
3.85	10	2595.000003	3	6488
3.85	20	2595.000008	8	6488
3.85	30	2595.000004	4	6488
3.85	40	2594.999990	-10	6488
3.85	50	2595.000005	5	6488

Reference Freq.:	LTE B41 Mid Channel		2593	MHz 10M QPSK CH 40620
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
4.235	25	2592.999992	-8	6483
3.85	25	2592.999994	-6	6483
3.465	25	2592.999998	-2	6483
3.1 (End Point)	25	2593.000007	7	6483
Freq. ERROR vs. Temp.				
3.85	-30	2592.999995	-5	6483
3.85	-20	2592.999992	-8	6483
3.85	-10	2592.999990	-10	6483
3.85	0	2593.000003	3	6483
3.85	10	2593.000009	9	6483
3.85	20	2592.999993	-7	6483
3.85	30	2592.999994	-6	6483
3.85	40	2592.999998	-2	6483
3.85	50	2592.999996	-4	6483

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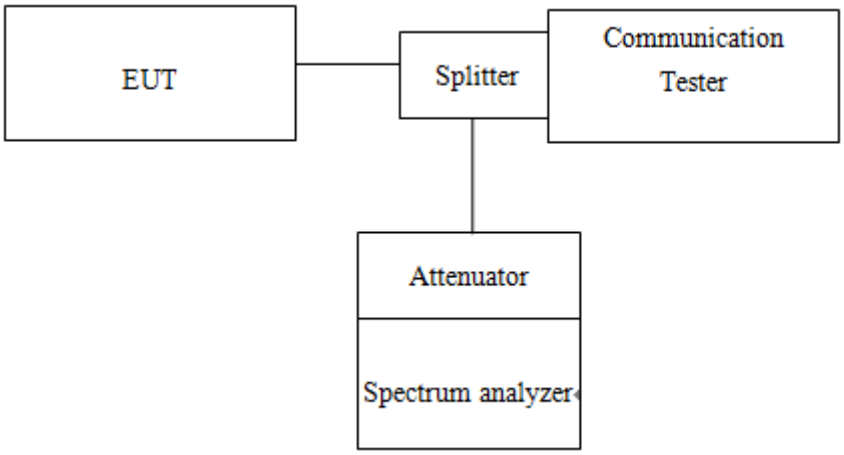
11 PEAK TO AVERAGE RATIO

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 ≥ 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	04/21/2020	04/20/2021
DC Power Supply	Agilent	E3640A	KR93300208	08/19/2020	08/18/2021
Radio Communication Analyer	Anritsu	MT8815B	6200711454	04/01/2020	03/31/2021
Temperature Chamber	TERCHY	MHG-120LF	911009	05/20/2020	05/19/2021
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2020	01/01/2021
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2020	01/01/2021
Splitter	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-018	01/02/2020	01/01/2021
Radio Communication Analyer	Anritsu	MT8821C	6261786084	01/18/2020	01/17/2021

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11.5 Measurement Result

Freq. (MHz)	CH	Peak-to-Average Ratio	
		GSM 850	GPRS 850
824.2	128	9.69	10.03
836.6	190	9.43	9.4
848.8	251	9.34	9.48

Freq. (MHz)	CH	Peak-to-Average Ratio	
		GSM 1900	GPRS 1900
1850.2	512	9.26	9.72
1880	661	9.87	10.15
1909.8	810	9.62	9.58

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA II	HSDPA II	HSUPA II
1852.4	9262	3.09	3.94	3.81
1880	9400	3.09	4.29	4.01
1907.6	9538	3.07	4.13	3.77

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA V	HSDPA V	HSUPA V
826.4	4132	2.98	4.01	3.43
836.6	4183	3.00	3.55	3.81
846.6	4233	2.92	3.92	3.66

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LTE BAND 2							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1850.7	18607	6.87	13	1851.5	18615	6.70	13
1880.0	18900	6.97	13	1880.0	18900	6.75	13
1909.3	19193	6.69	13	1908.5	19185	6.73	13

LTE BAND 2							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1852.5	18625	6.66	13	1855.0	18650	6.73	13
1880.0	18900	6.77	13	1880.0	18900	6.88	13
1907.5	19175	6.58	13	1905.0	19150	6.63	13

LTE BAND 2							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1857.5	18675	6.71	13	1860.0	18700	6.73	13
1880.0	18900	6.65	13	1880.0	18900	6.88	13
1902.5	19125	6.73	13	1900.0	19100	6.80	13

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	6.82	13	825.5	20415	6.70	13
836.5	20525	6.90	13	836.5	20525	6.72	13
848.3	20643	6.76	13	847.5	20635	6.76	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	6.73	13	829.0	20450	6.75	13
836.5	20525	6.74	13	836.5	20525	6.68	13
846.5	20625	6.63	13	844.0	20600	6.73	13

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LTE BAND 7							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
2502.5	20775	6.33	13	2505.0	20800	6.38	13
2535.0	21100	6.53	13	2535.0	21100	6.56	13
2567.5	21375	6.63	13	2565.0	21350	6.53	13

LTE BAND 7							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
2507.5	20825	6.56	13	2510	20850	6.84	13
2535.0	21100	6.69	13	2535	21100	6.83	13
2562.5	21375	6.77	13	2560	21350	6.96	13

LTE BAND 38							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
2572.5	37775	10.31	13	2575	37800	10.70	13
2595.0	38000	9.12	13	2595	38000	10.13	13
2617.5	38225	9.90	13	2615	38200	8.52	13

LTE BAND 38							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
2577.5	37825	8.54	13	2580.0	37850	11.21	13
2595.0	38000	11.28	13	2595.0	38000	11.02	13
2612.5	38175	8.86	13	2610.0	38150	10.56	13

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LTE BAND 41							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
2498.5	39675	9.00	13	2501.0	39700	12.35	13
2593.0	40620	12.74	13	2593.0	40620	12.31	13
2687.5	41565	11.48	13	2685.0	41540	12.07	13

LTE BAND 41							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
2503.5	39725	9.80	13	2506.0	39750	7.31	13
2593.0	40620	9.61	13	2593.0	40620	10.16	13
2682.5	41515	11.43	13	2680.0	41490	8.41	13

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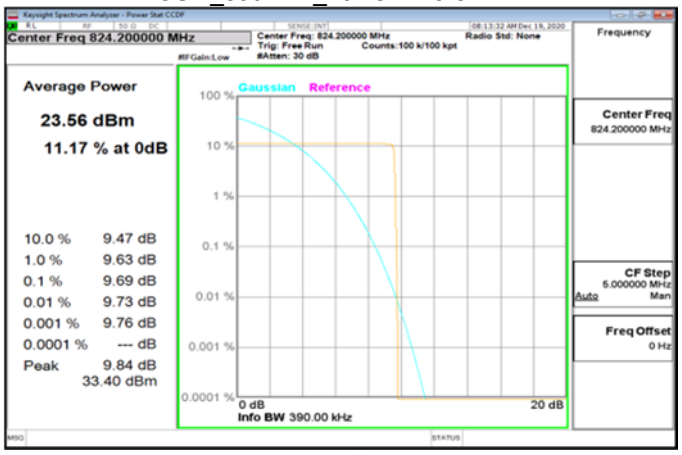
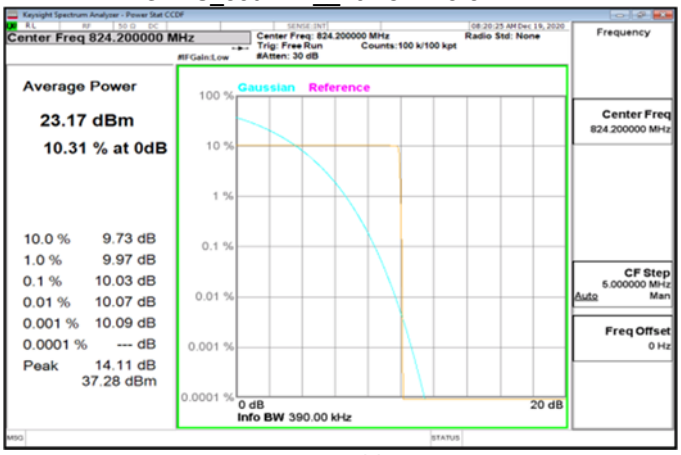
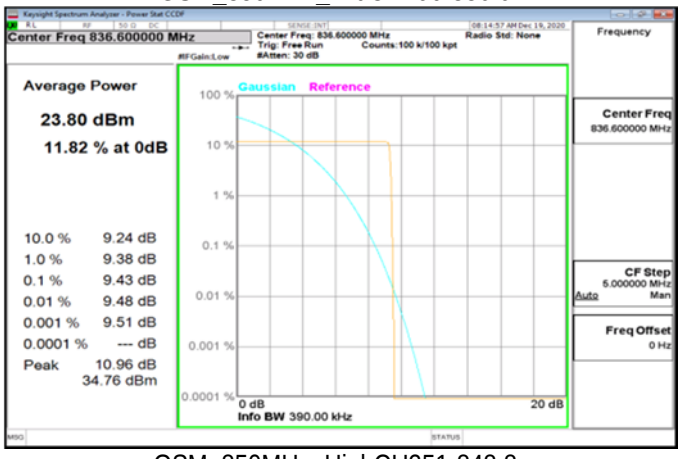
GSM_850MHz_LowCH128-824.2



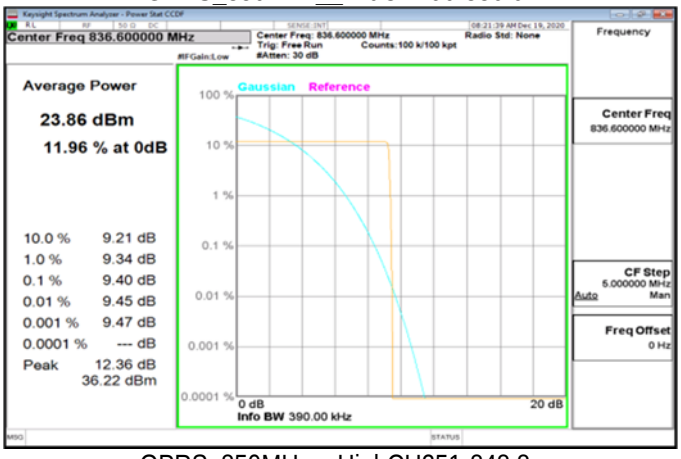
GPRS_850MHz__LowCH128-824.2



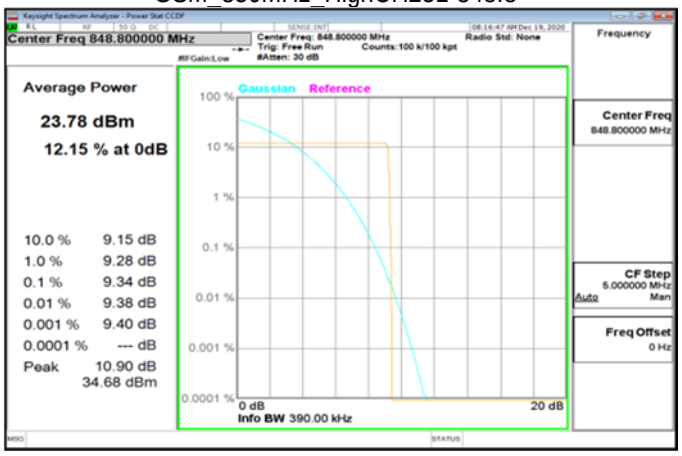
GSM_850MHz_MidCH190-836.6



GPRS_850MHz__MidCH190-836.6



GSM_850MHz_HighCH251-848.8



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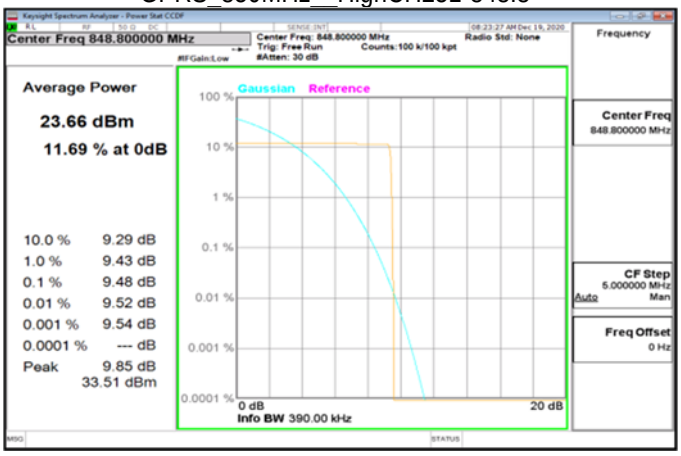

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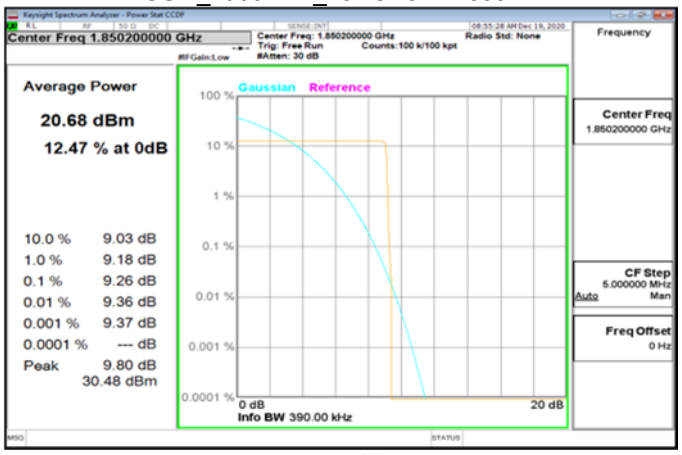
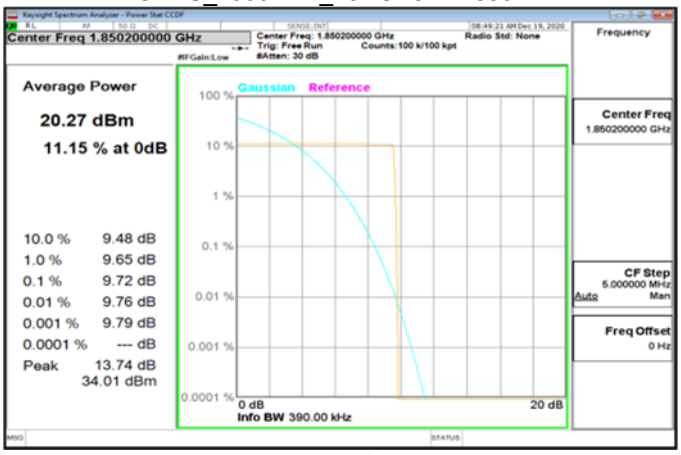
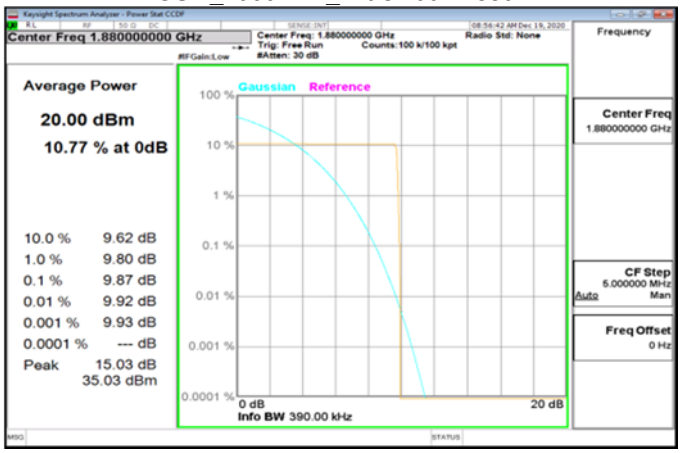
GSM_1900MHz_LowCH512-1850.2



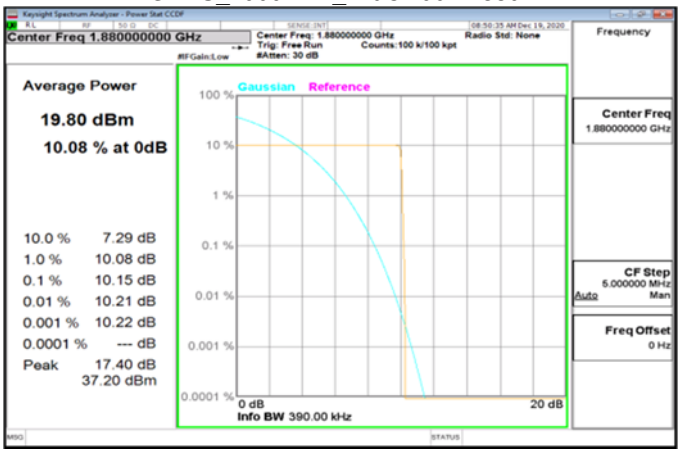
GPRS_1900MHz_LowCH512-1850.2



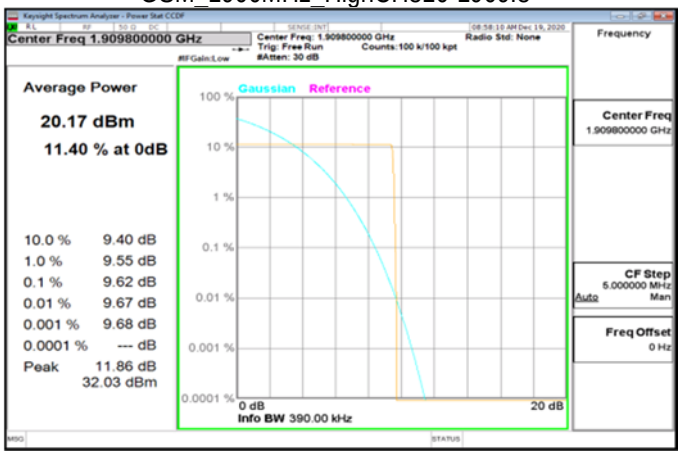
GSM_1900MHz_MidCH661-1880



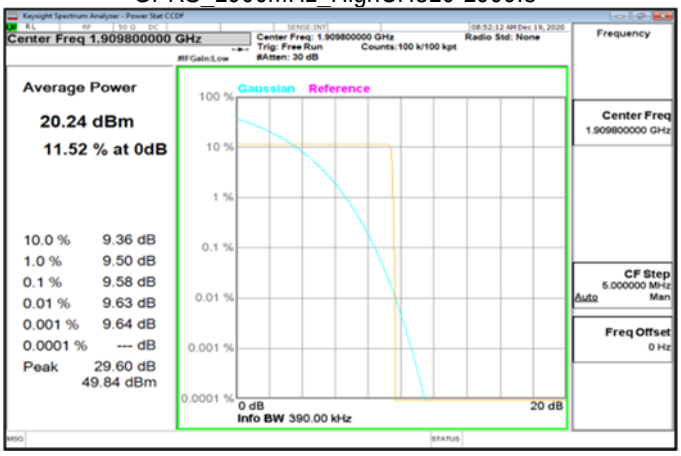
GPRS_1900MHz_MidCH661-1880



GSM_1900MHz_HighCH810-1909.8



GPRS_1900MHz_HighCH810-1909.8



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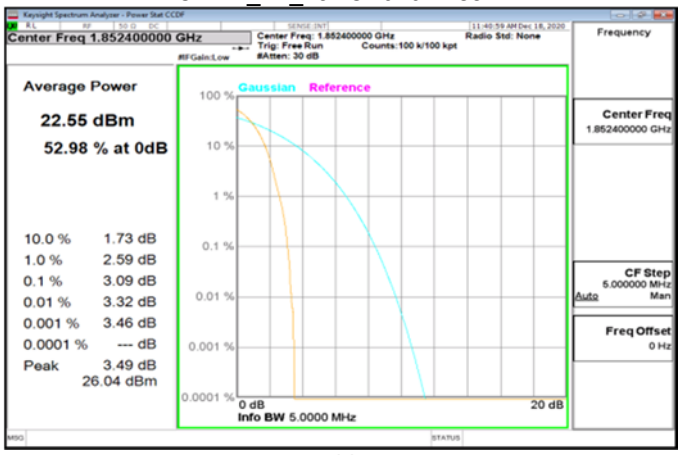
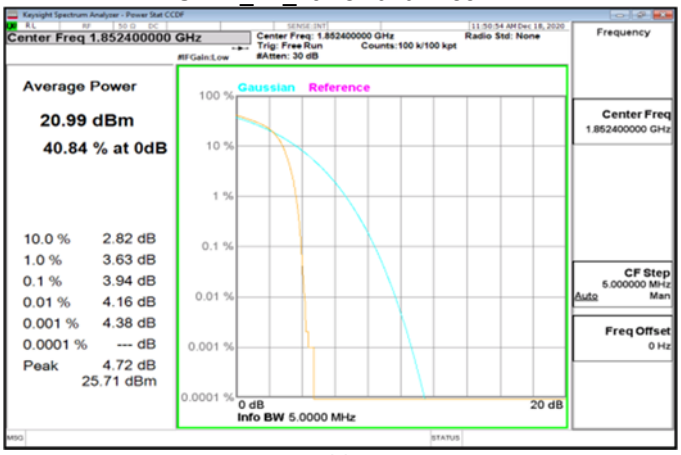
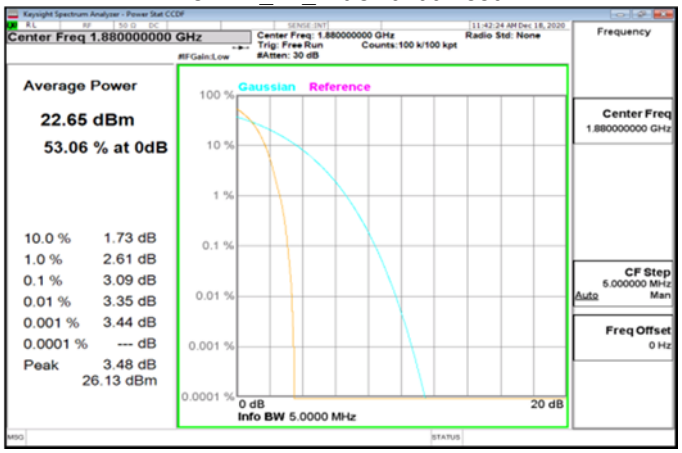
WCDMA_B2_LowCH9262-1852.4



HSDPA_B2_LowCH9262-1852.4



WCDMA_B2_MidCH9400-1880



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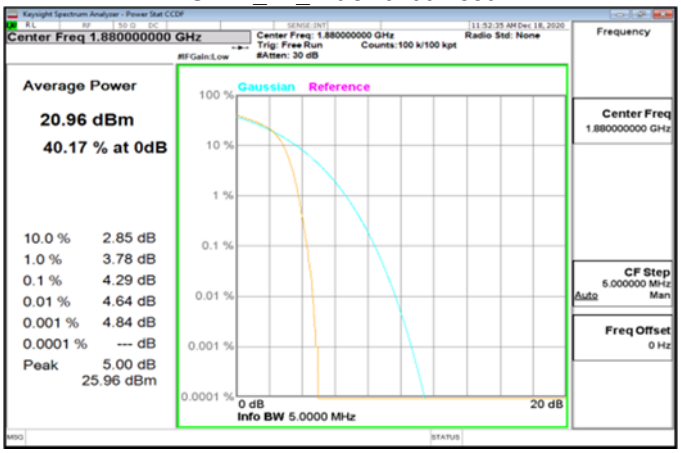
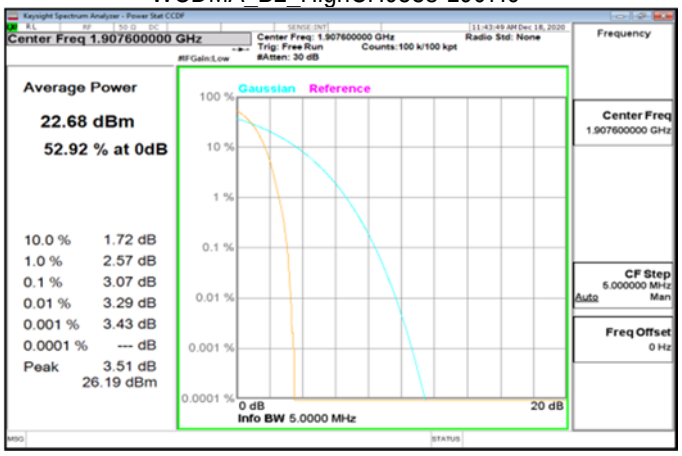


WCDMA_B2_HighCH9538-1907.6



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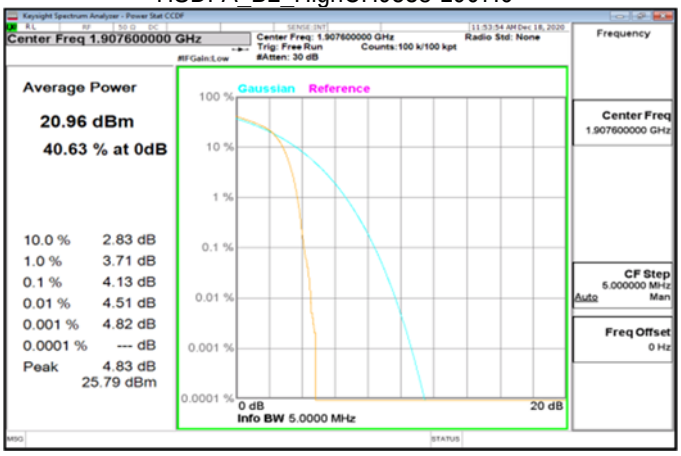

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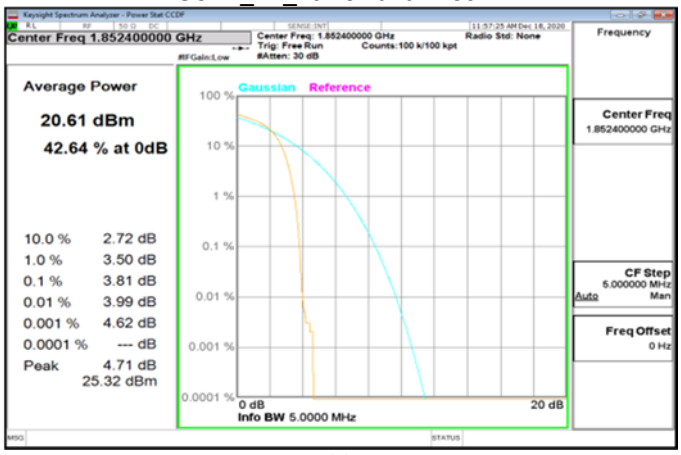
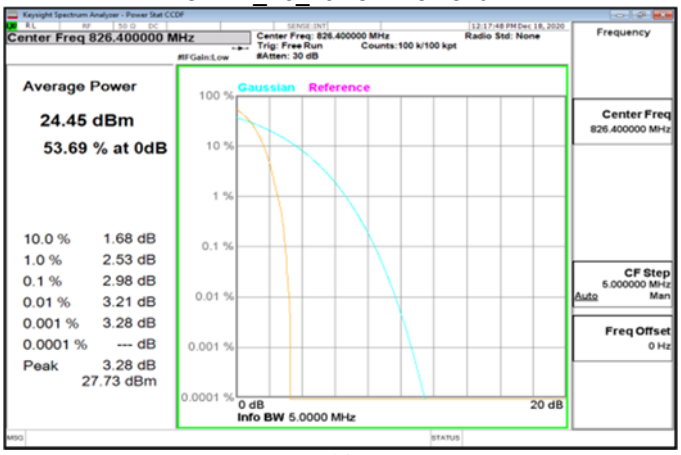
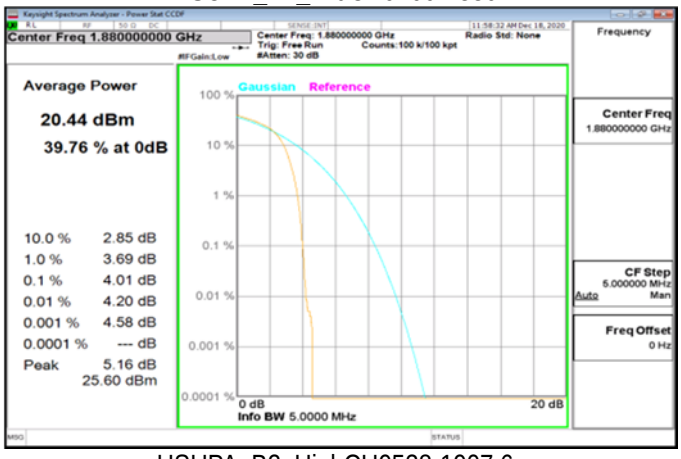
HSUPA_B2_LowCH9262-1852.4



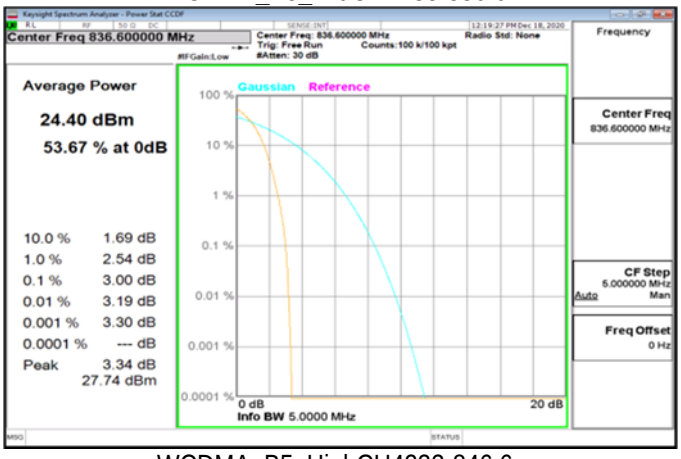
WCDMA_B5_LowCH4132-826.4



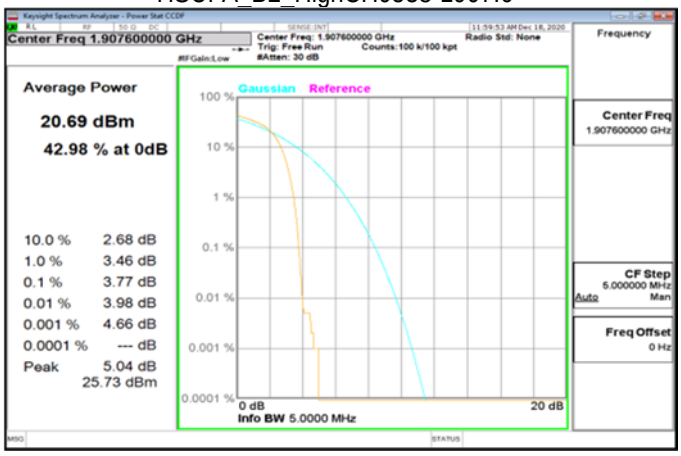
HSUPA_B2_MidCH9400-1880



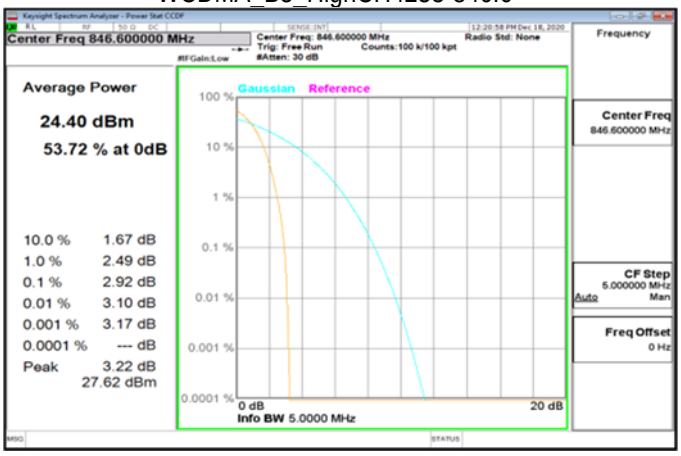
WCDMA_B5_MidCH4183-836.6



HSUPA_B2_HighCH9538-1907.6



WCDMA_B5_HighCH4233-846.6



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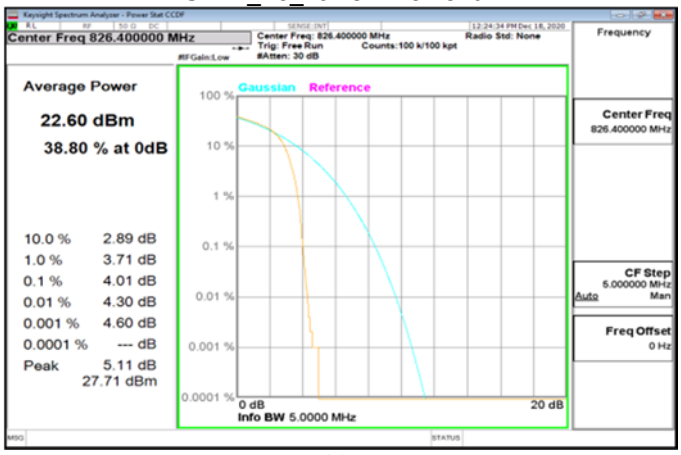
HSDPA_B5_LowCH4132-826.4



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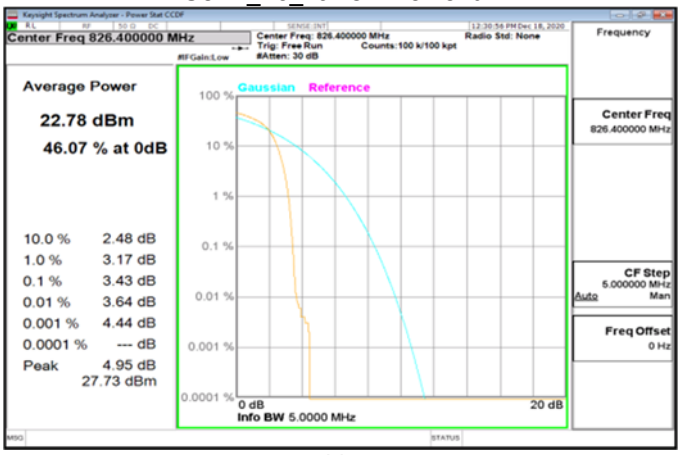

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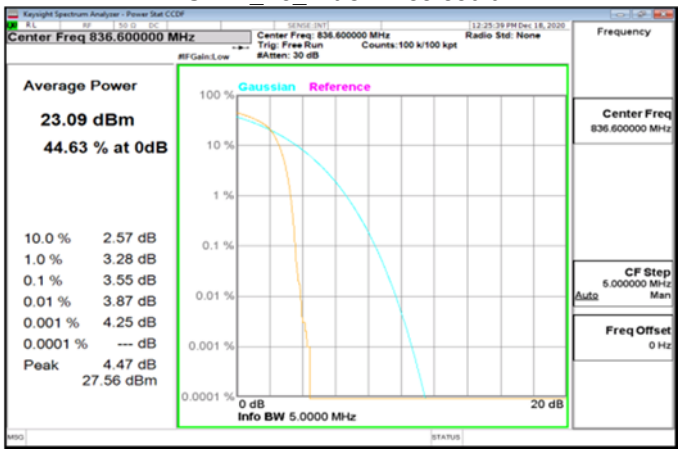

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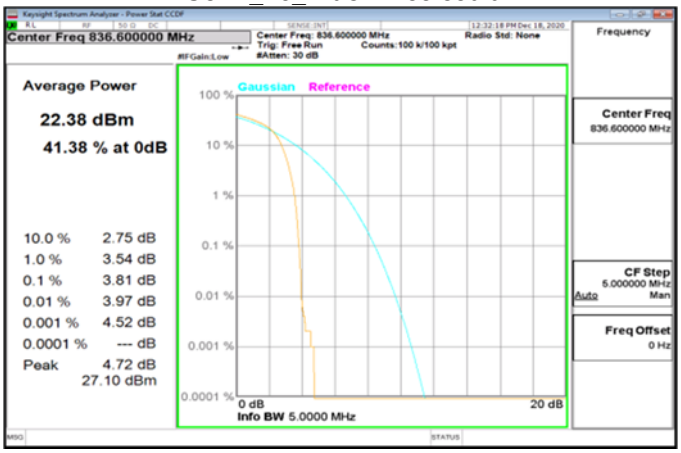

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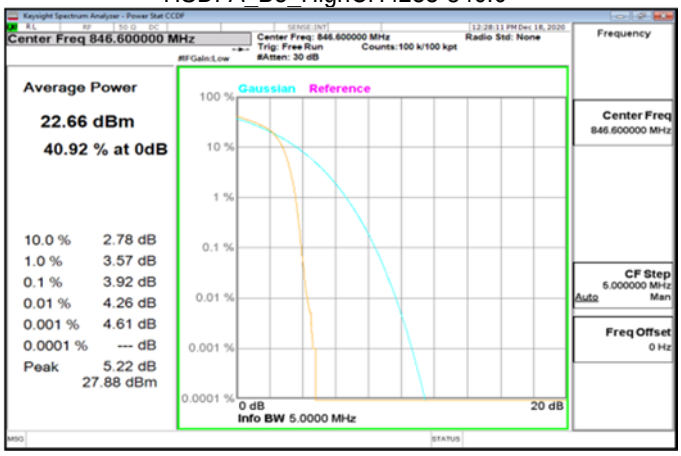

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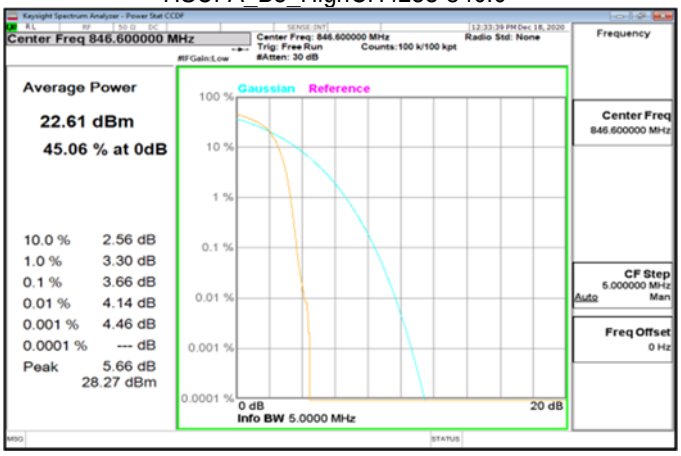

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