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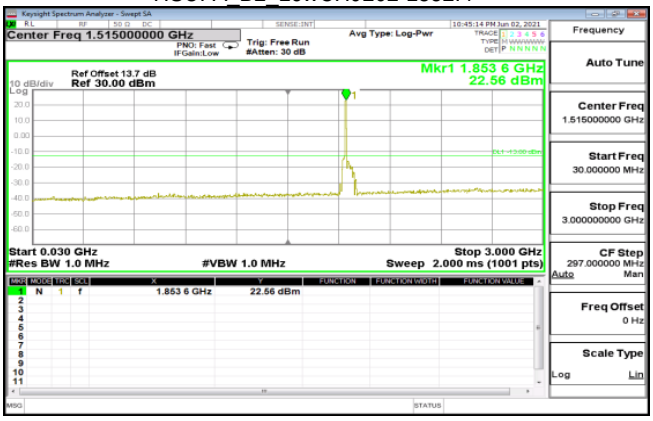

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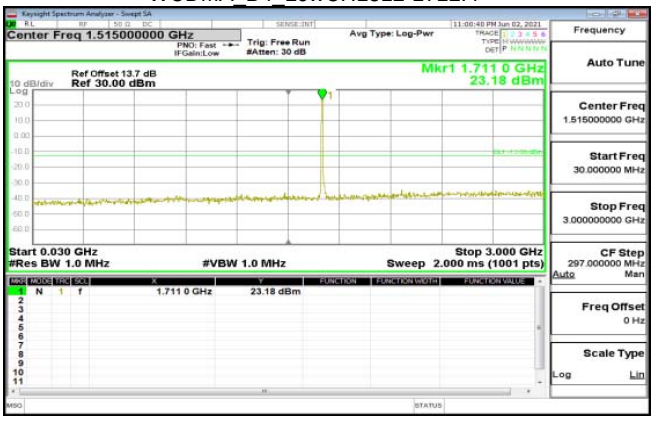

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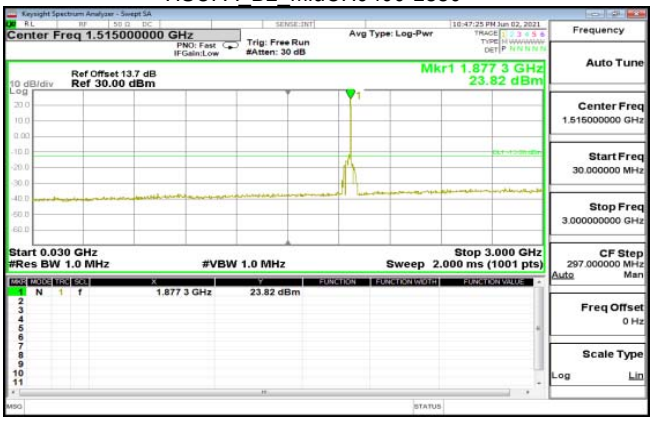

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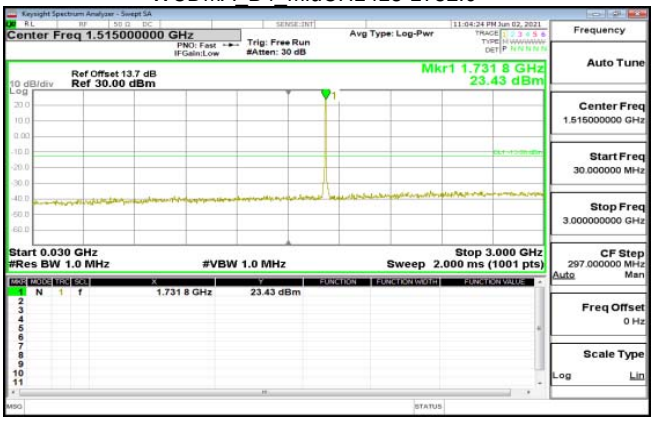

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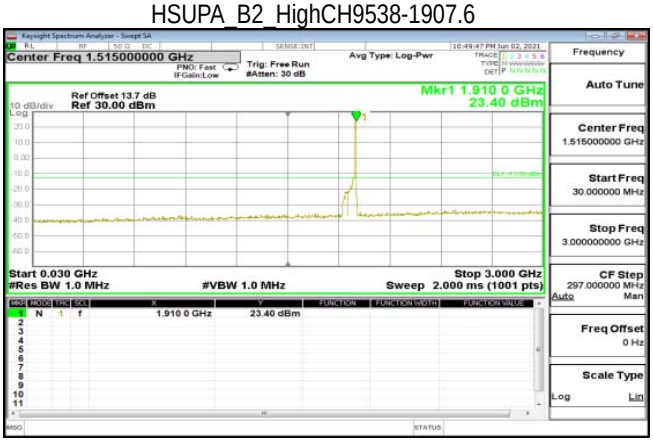
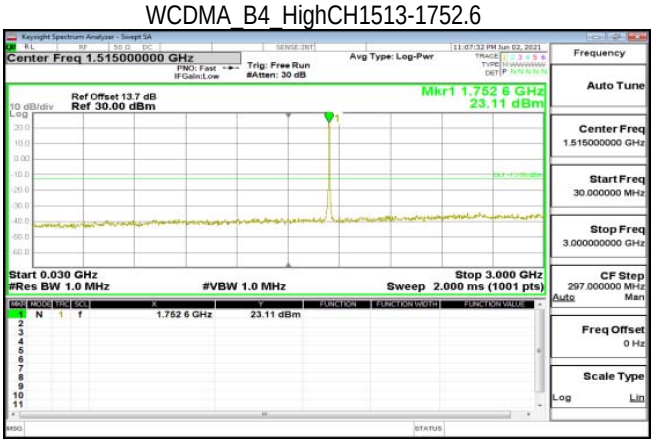


WCDMA_B4_HighCH1513-1752.6



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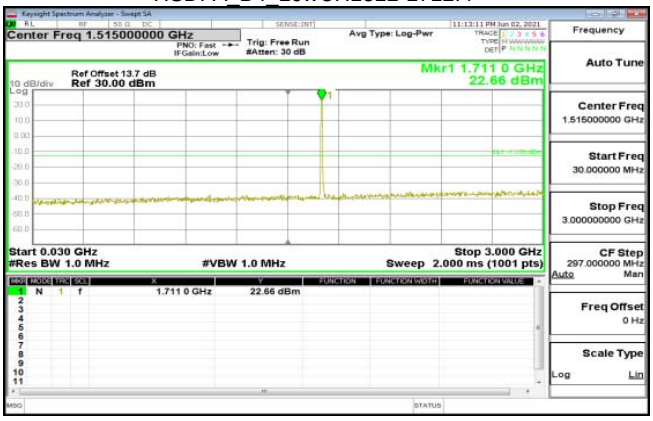
HSDPA_B4_LowCH1312-1712.4



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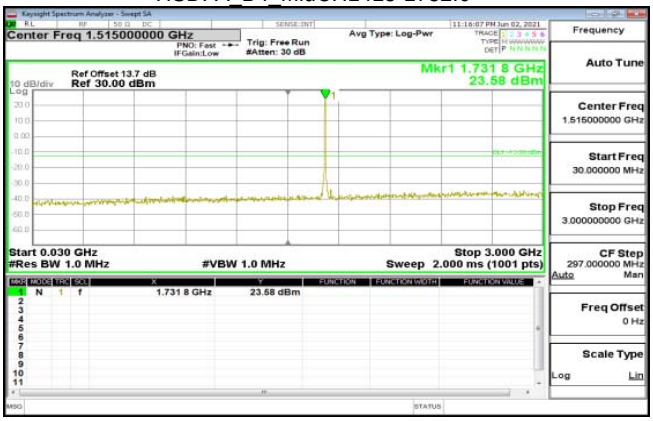

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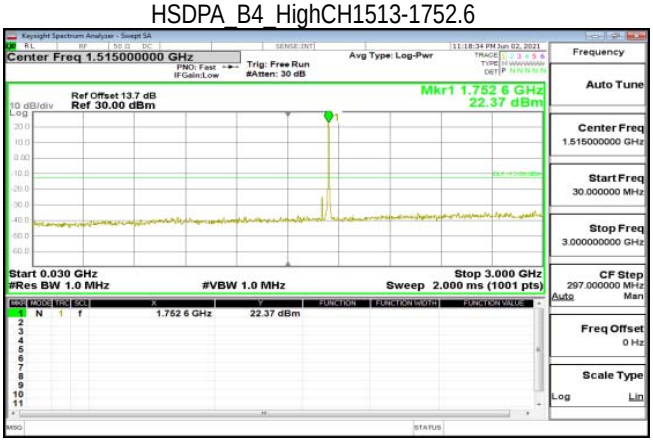
HSDPA_B4_HighCH1513-1752.6



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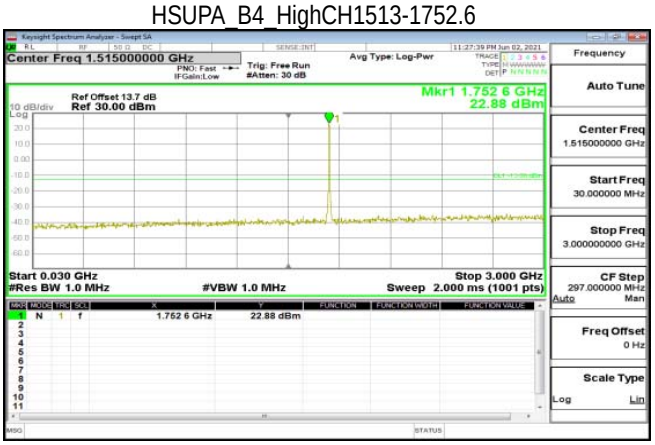

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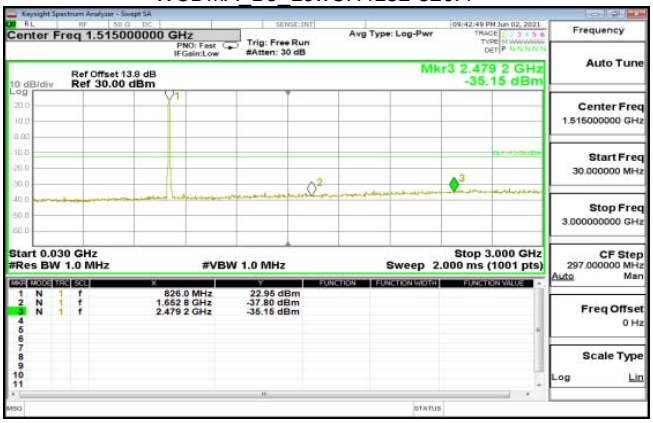
WCDMA_B5_LowCH4132-826.4



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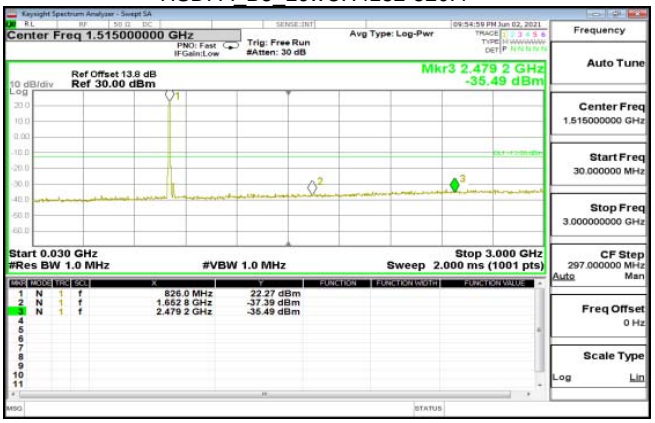

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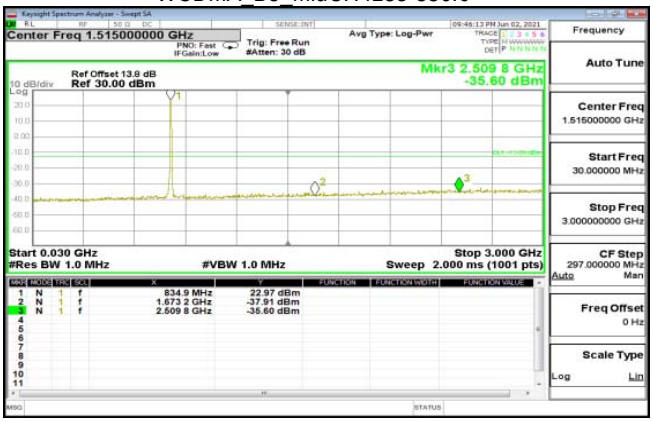

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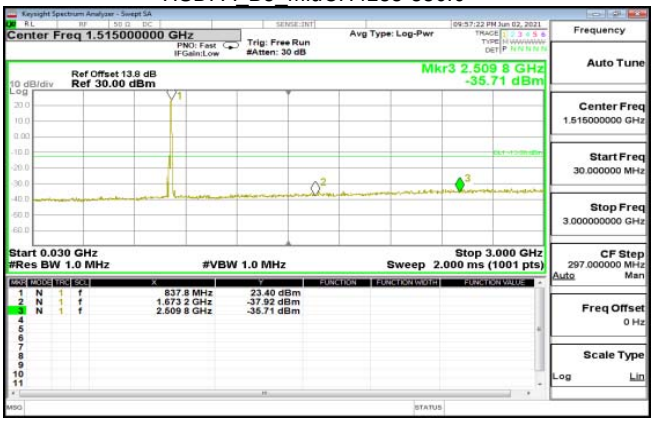
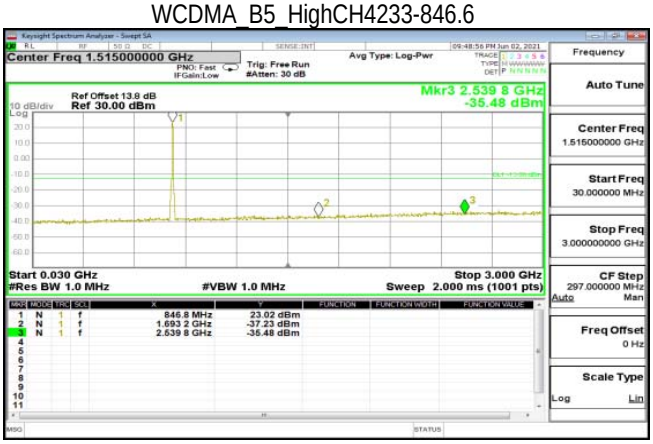


WCDMA_B5_HighCH4233-846.6



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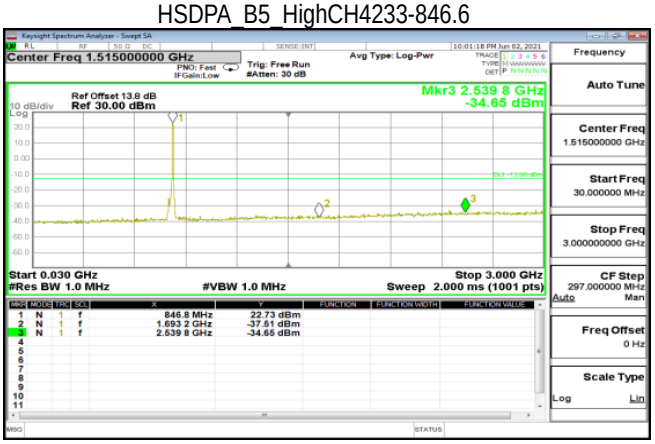

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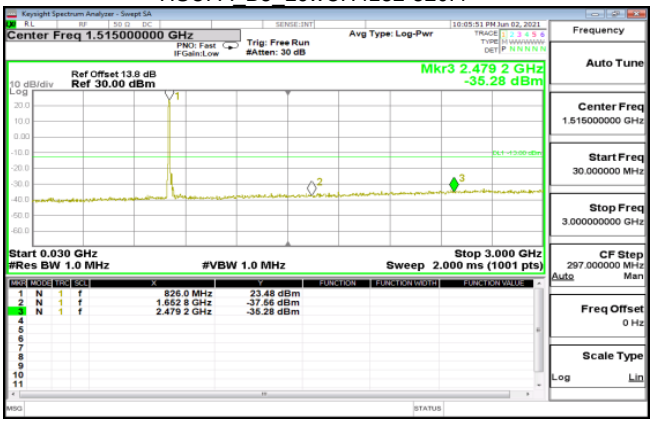
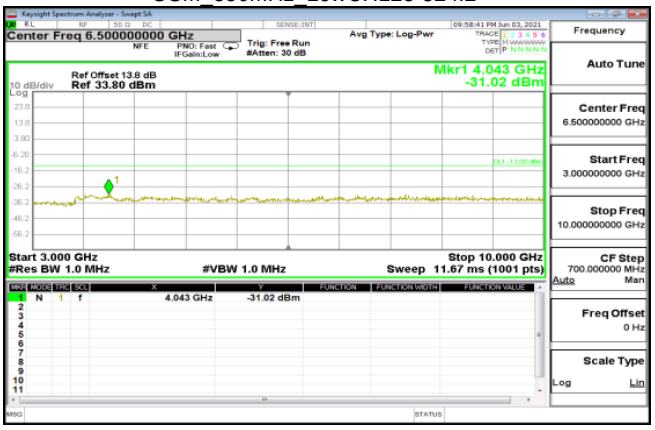
HSUPA_B5_LowCH4132-826.4

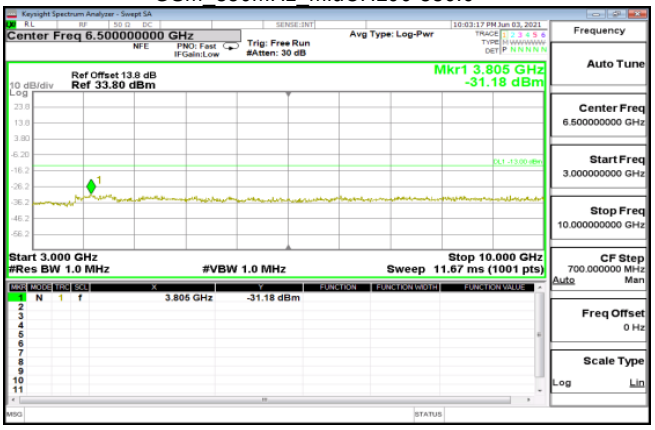


GSM_850MHz_LowCH128-824.2



HSUPA_B5_MidCH4183-836.6

GSM_850MHz_MidCH190-836.6



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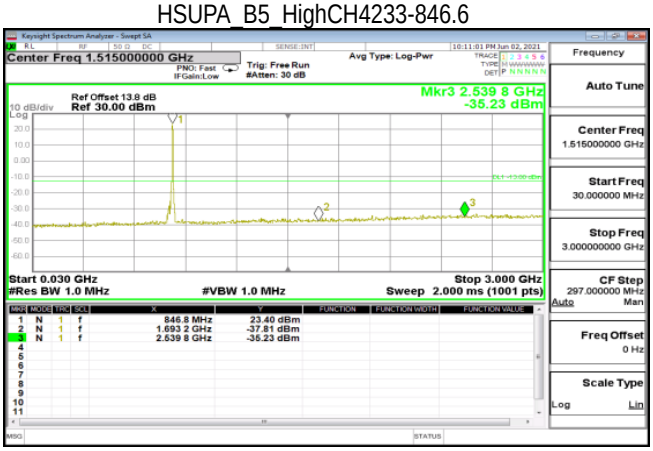

GSM_850MHz_HighCH251-848.8

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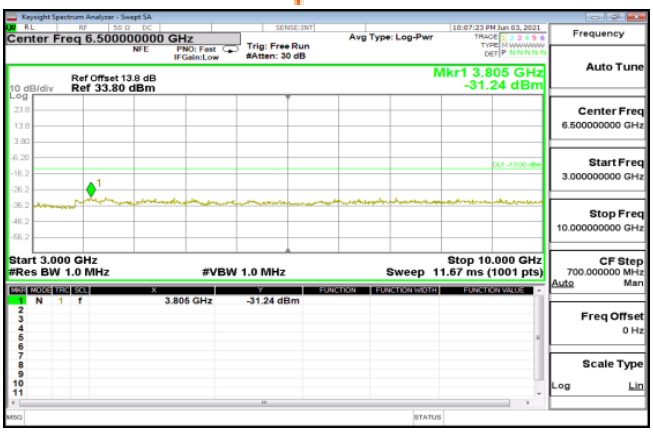
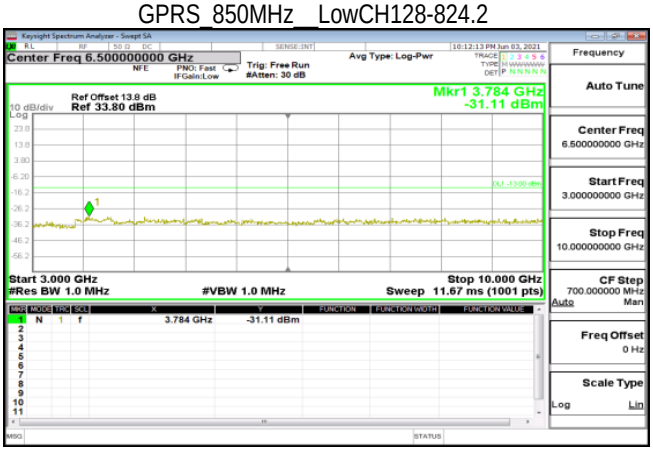
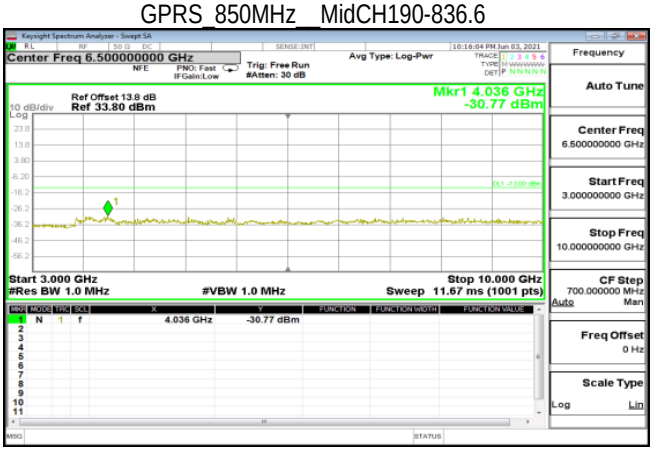


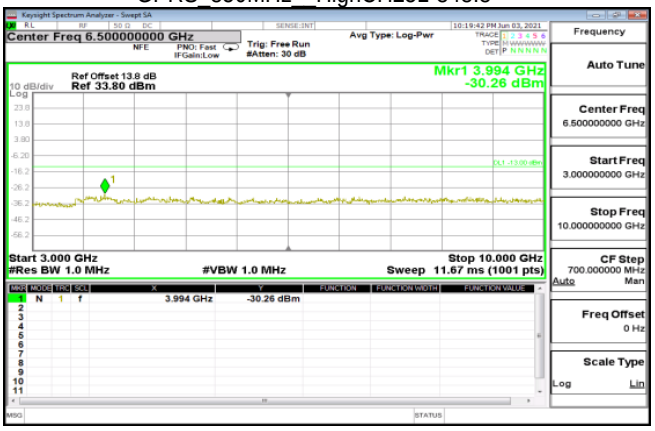
GPRS_850MHz__LowCH128-824.2



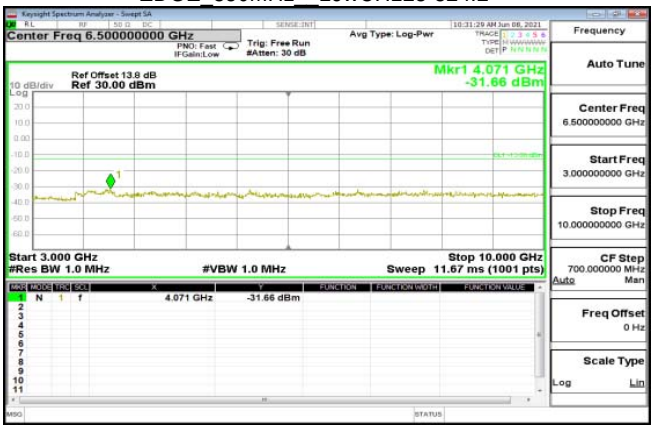
GPRS_850MHz__MidCH190-836.6



GPRS_850MHz__HighCH251-848.8



EDGE_850MHz__LowCH128-824.2



EDGE_850MHz__MidCH190-836.6

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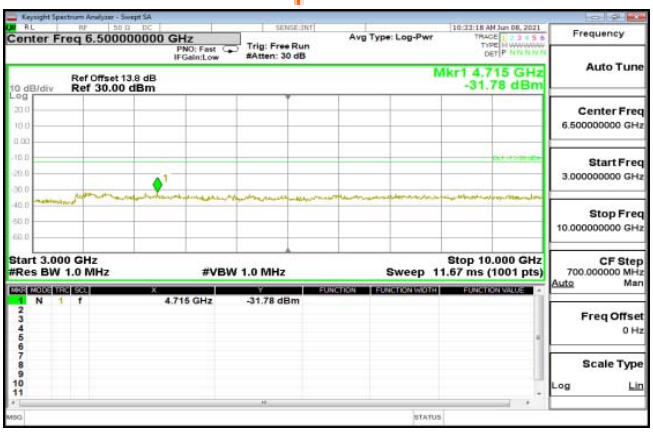
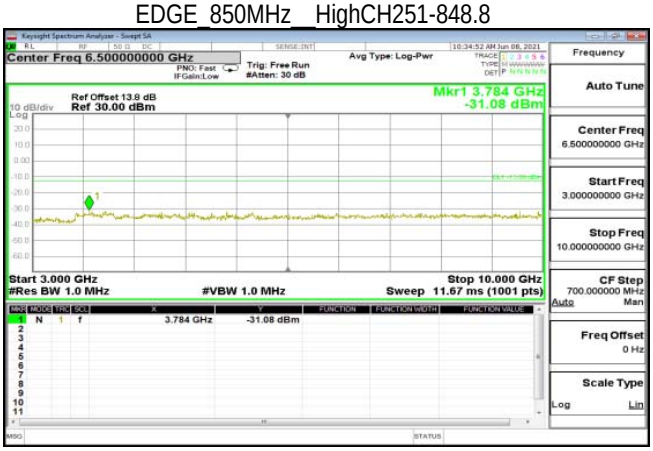
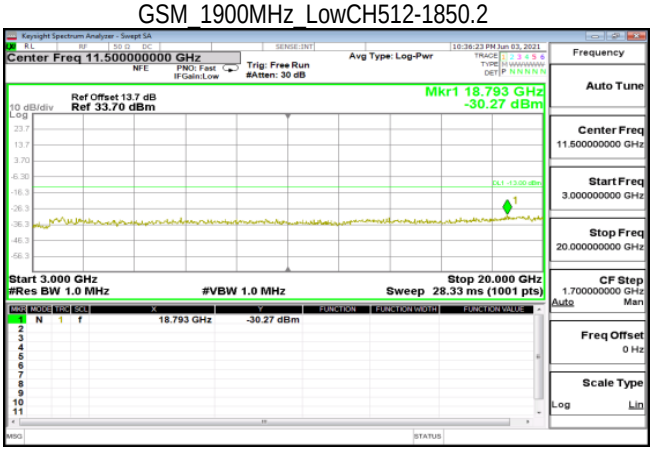


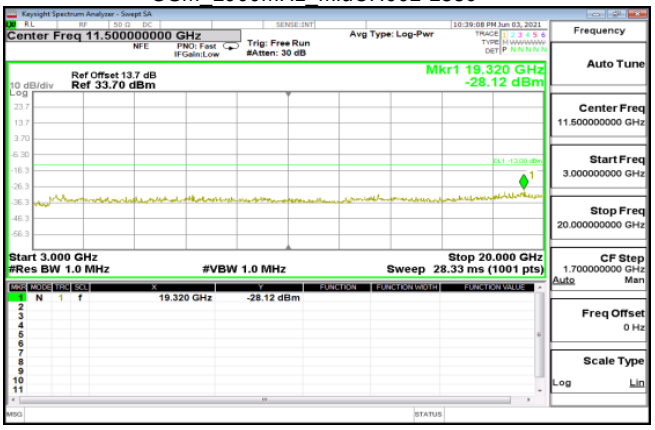
EDGE_850MHz__HighCH251-848.8



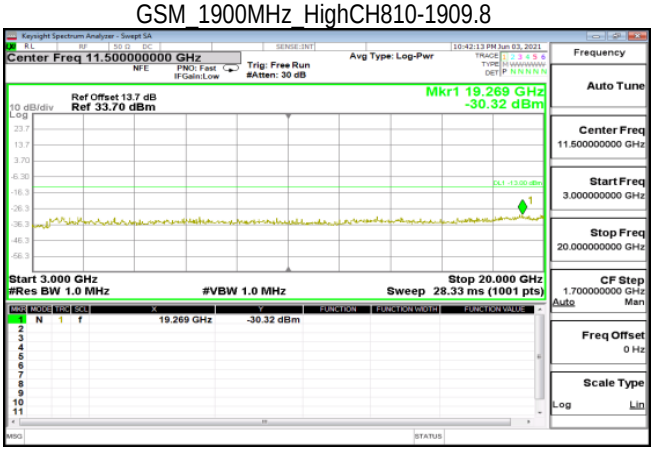
GSM_1900MHz_LowCH512-1850.2



GSM_1900MHz_MidCH661-1880



GSM_1900MHz_HighCH810-1909.8



GPRS_1900MHz_LowCH512-1850.2

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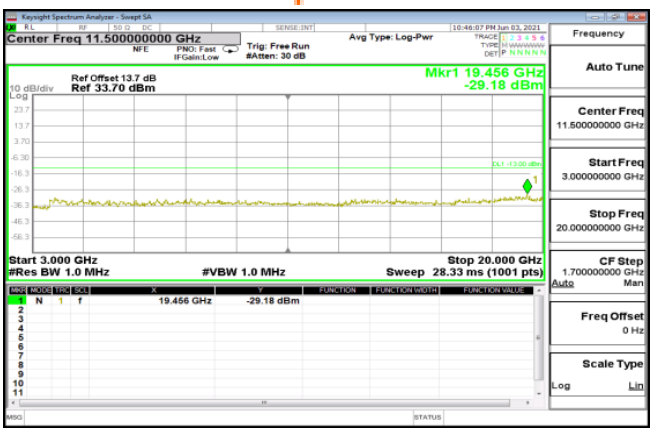
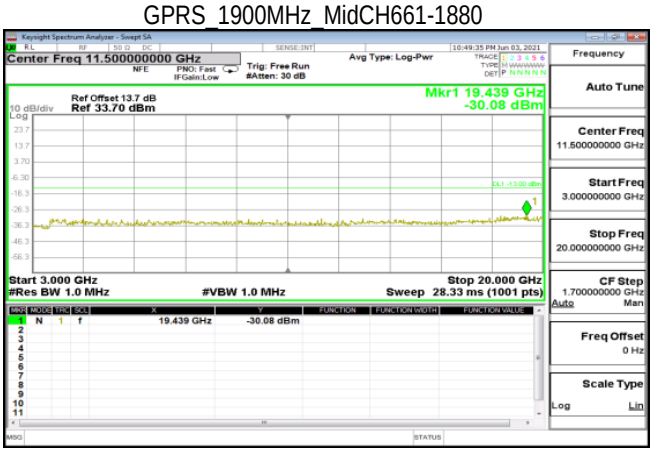
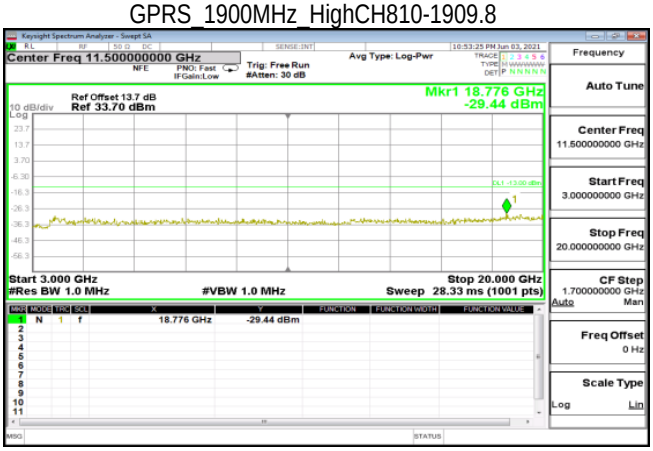


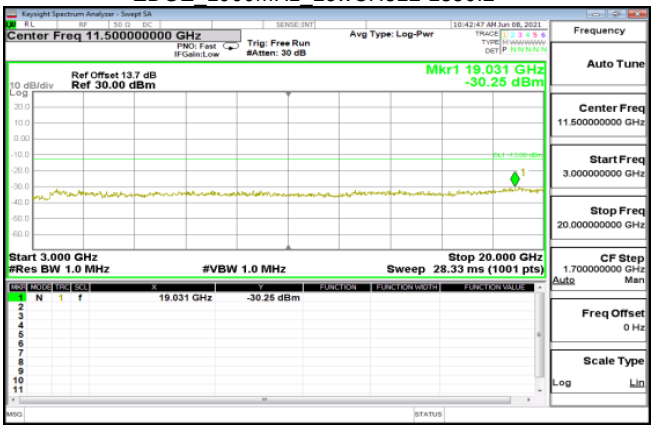
GPRS_1900MHz_MidCH661-1880



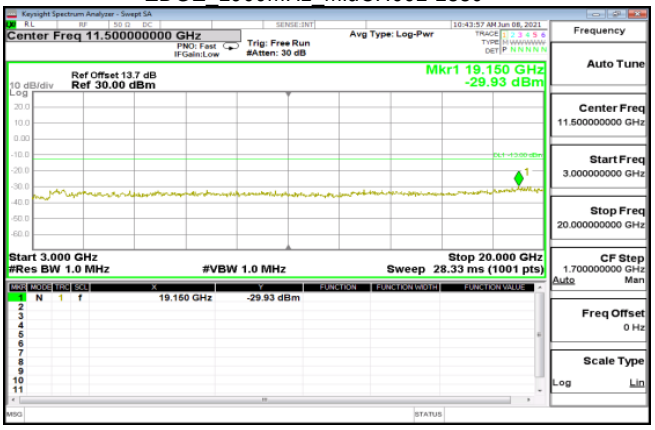
GPRS_1900MHz_HighCH810-1909.8



EDGE_1900MHz_LowCH512-1850.2



EDGE_1900MHz_MidCH661-1880



EDGE_1900MHz_HighCH810-1909.8

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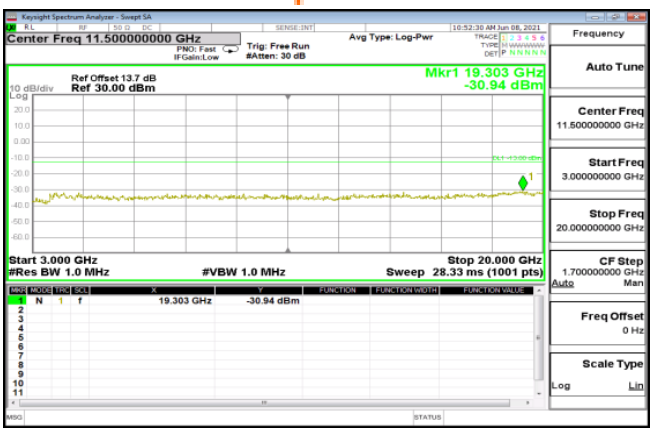
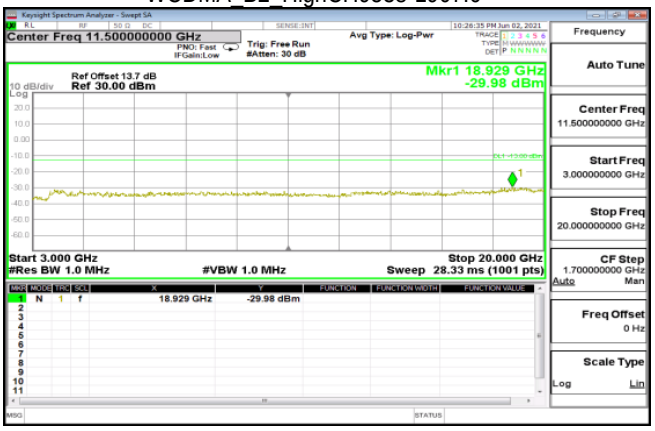
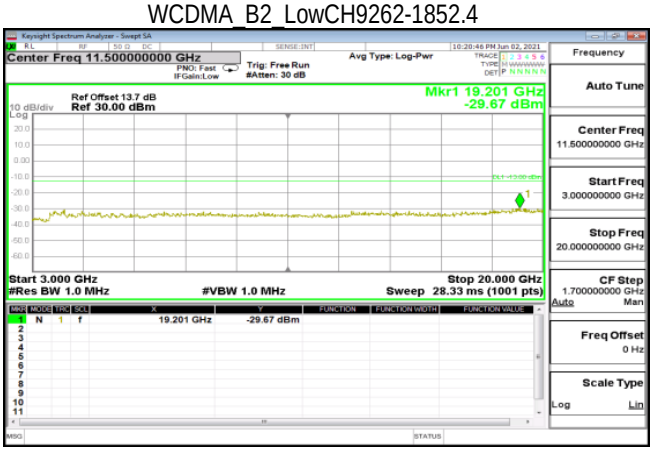


WCDMA_B2_HighCH9538-1907.6



WCDMA_B2_LowCH9262-1852.4



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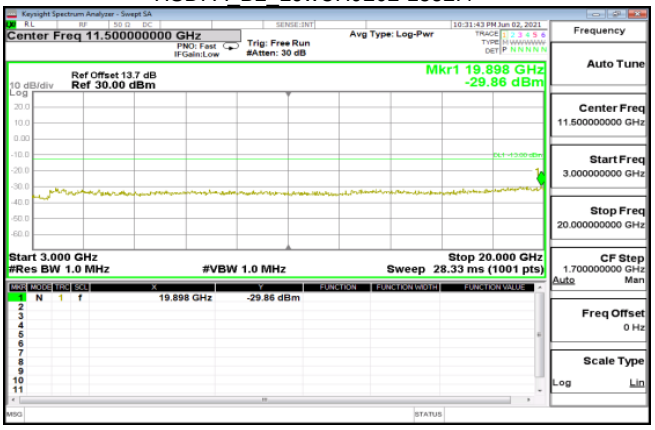

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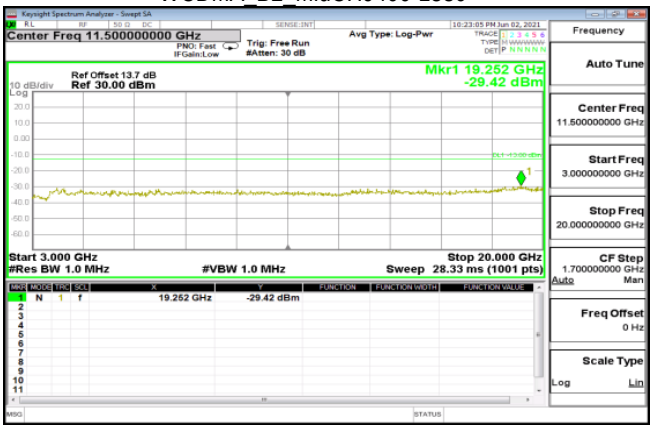

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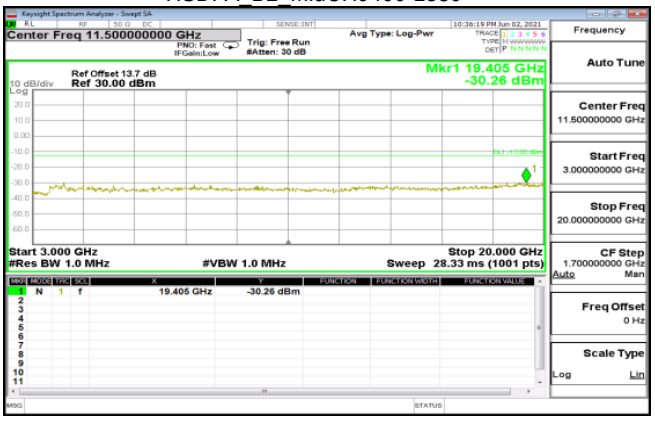

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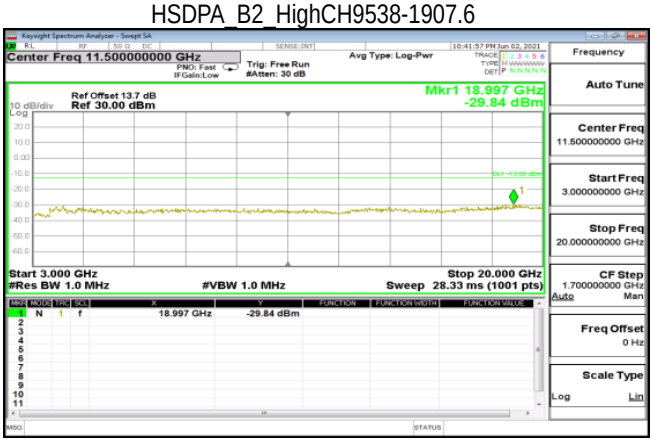
HSDPA_B2_HighCH9538-1907.6



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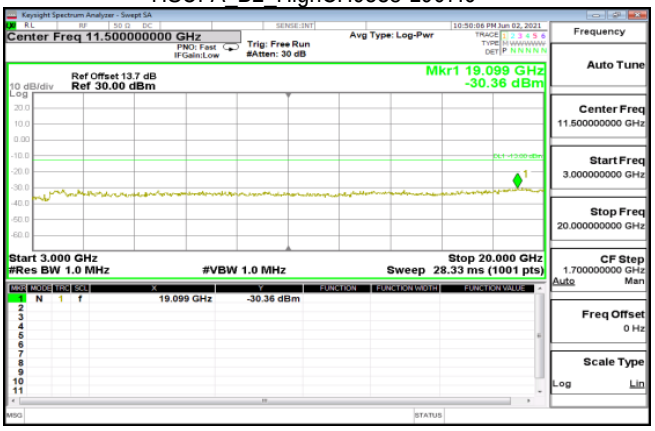

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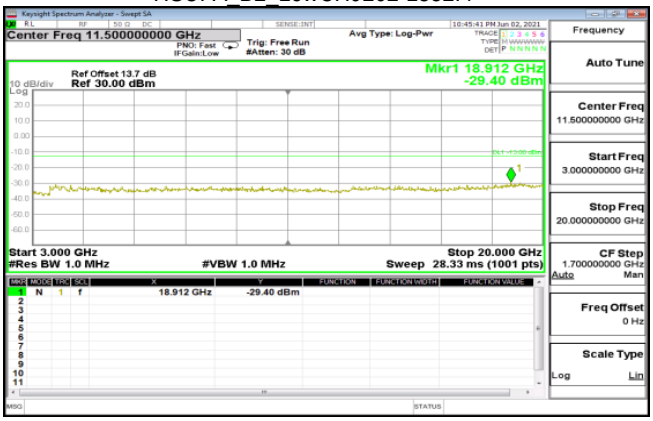

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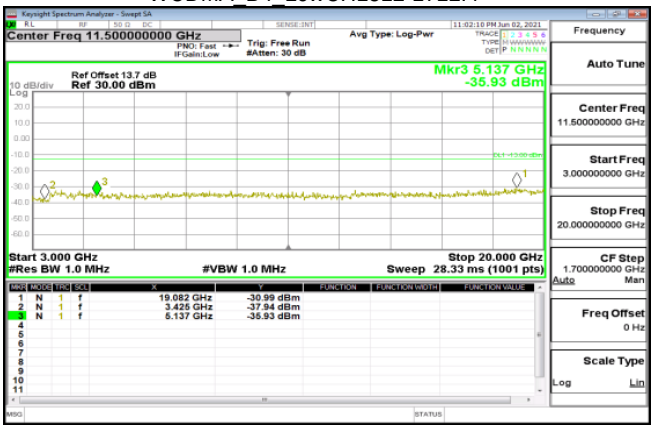

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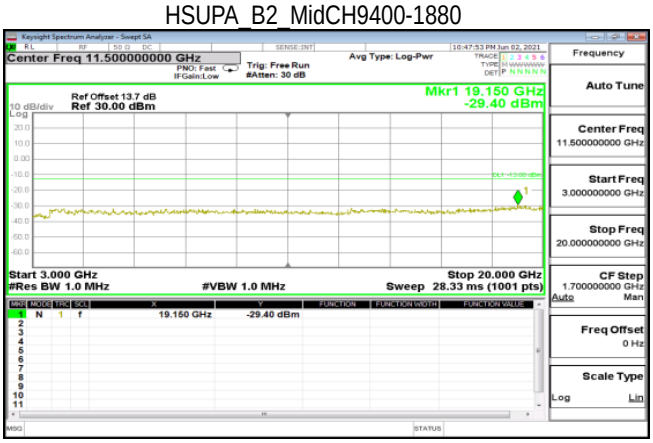

WCDMA_B4_MidCH1413-1732.6

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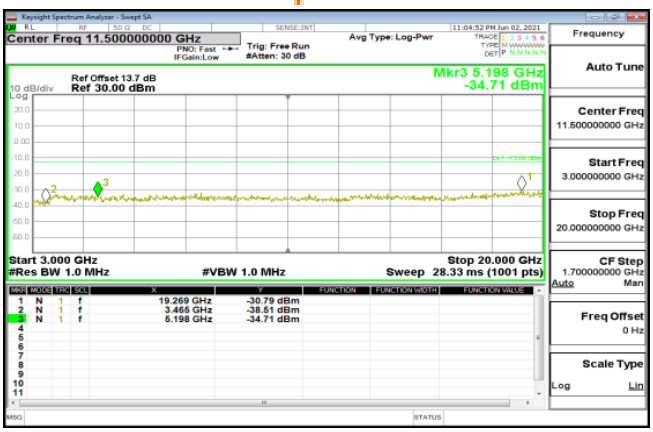

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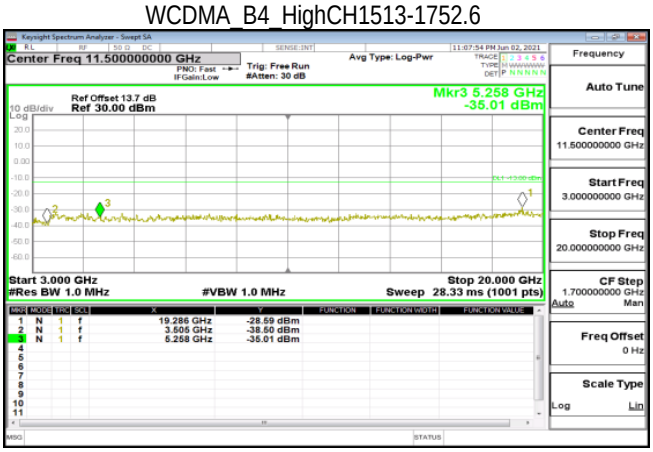

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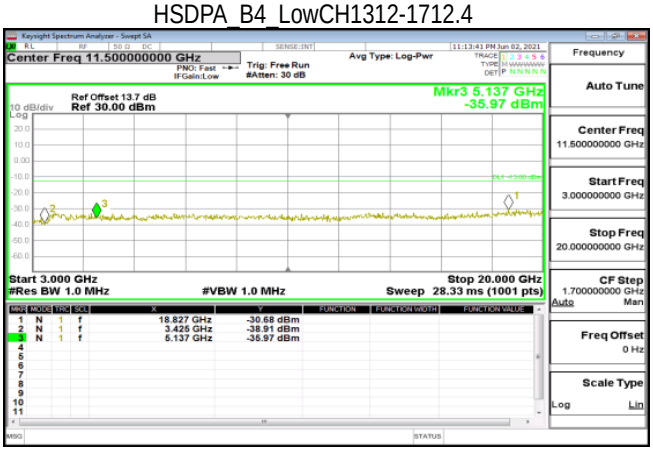

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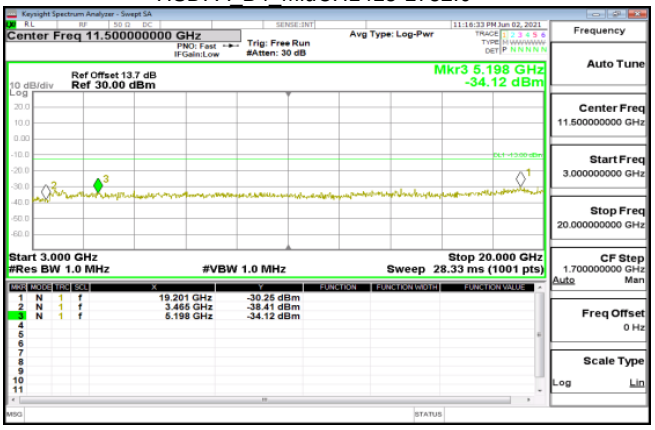

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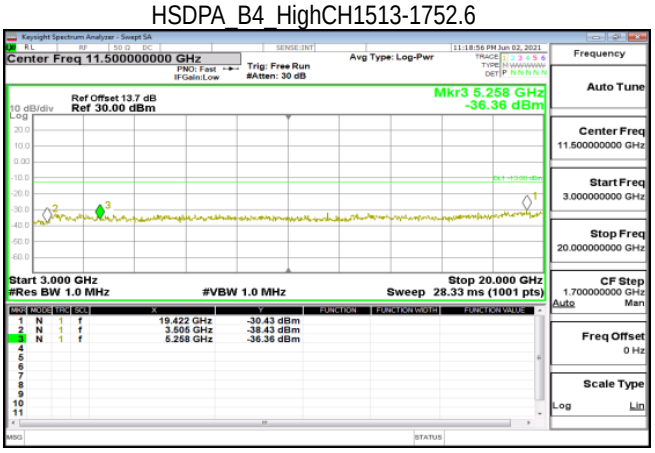

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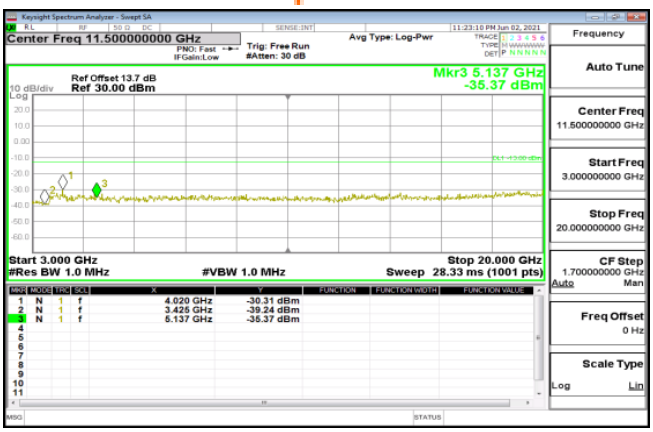

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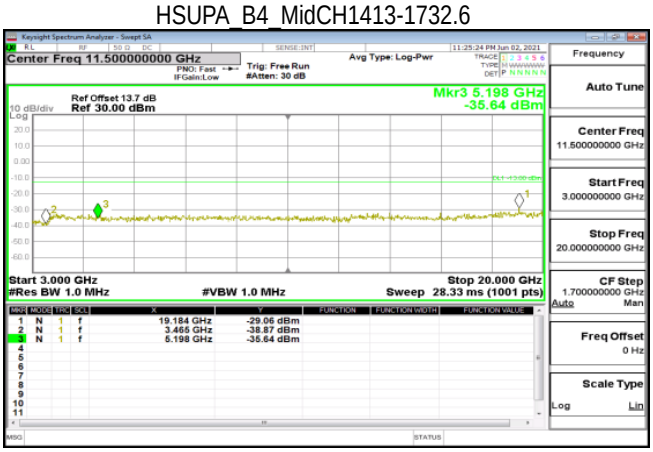

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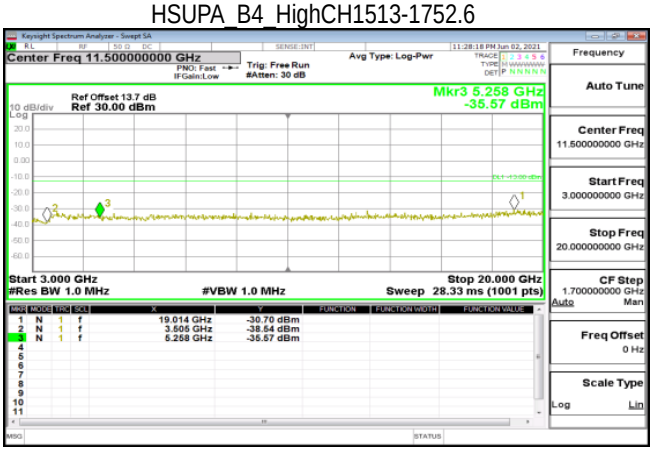

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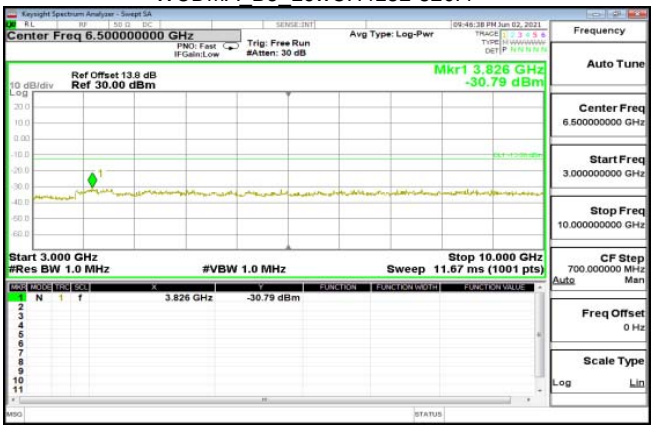

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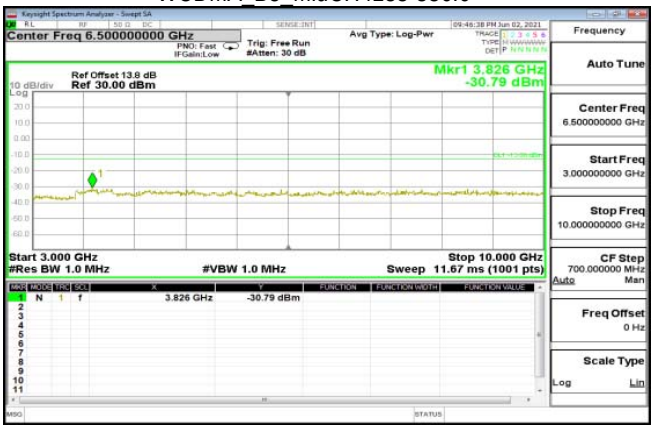

WCDMA_B5_HighCH4233-846.6

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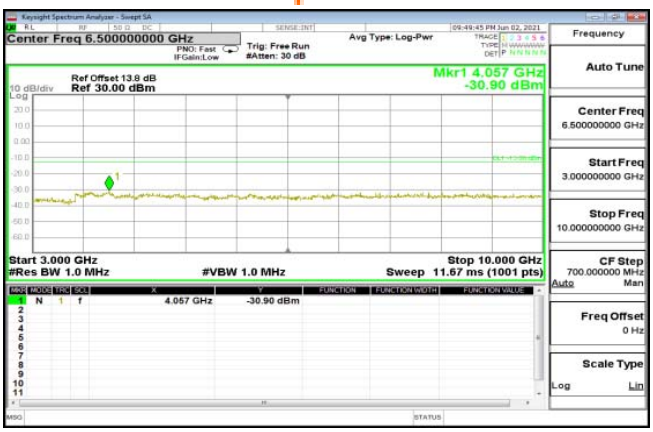

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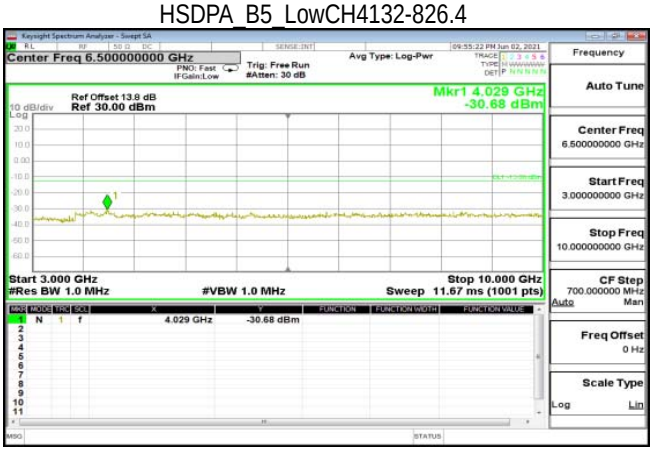

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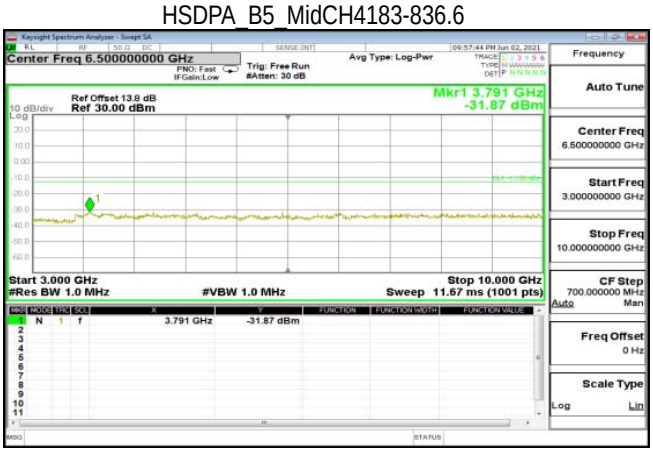

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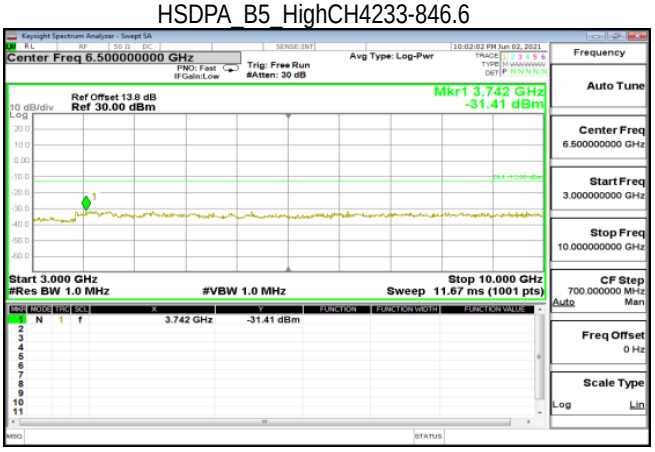

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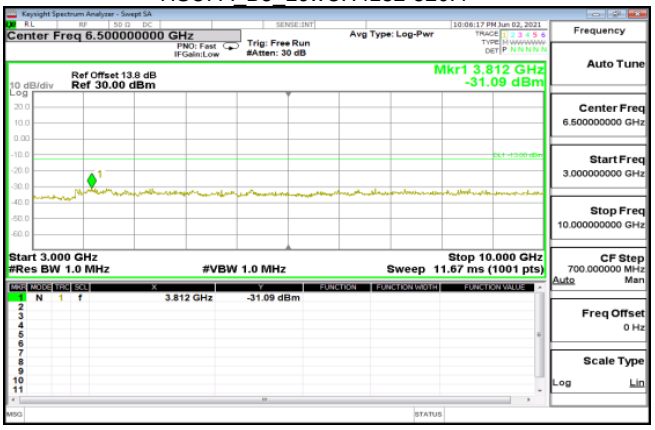

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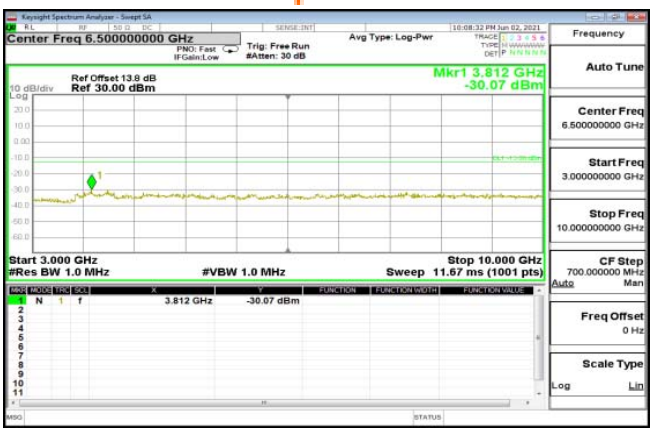

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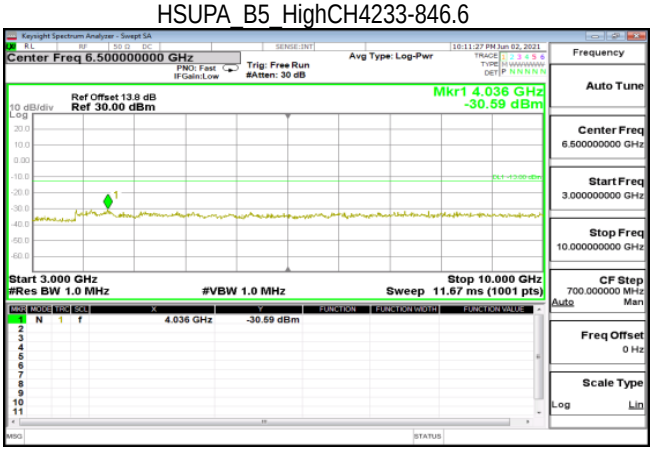

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9 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

9.1 Standard Applicable

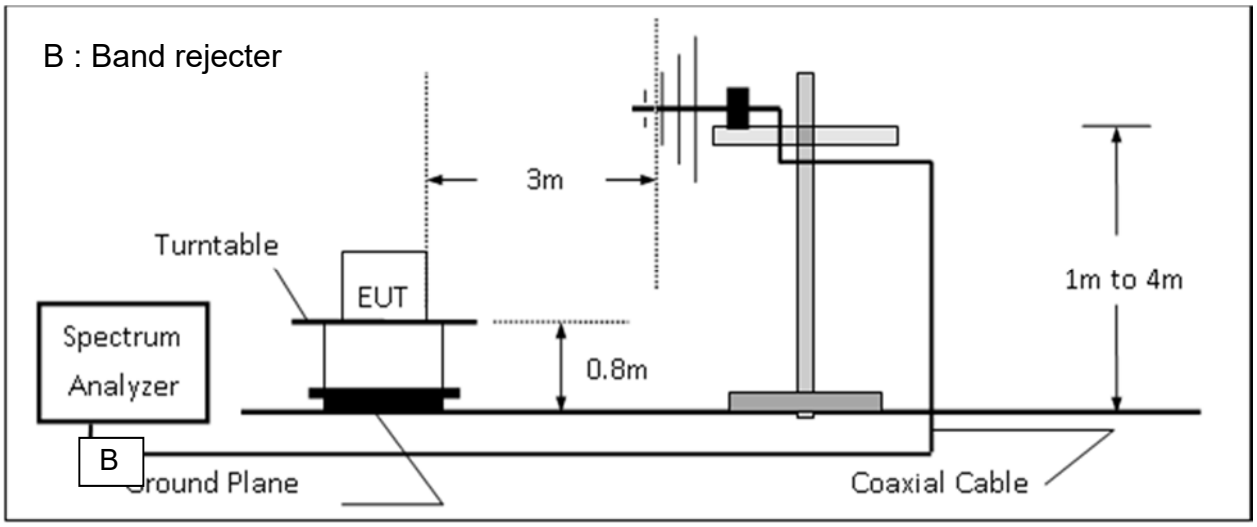
According to FCC §2.1053,

FCC §22.917(a), §24.238(a), §27.53(h)

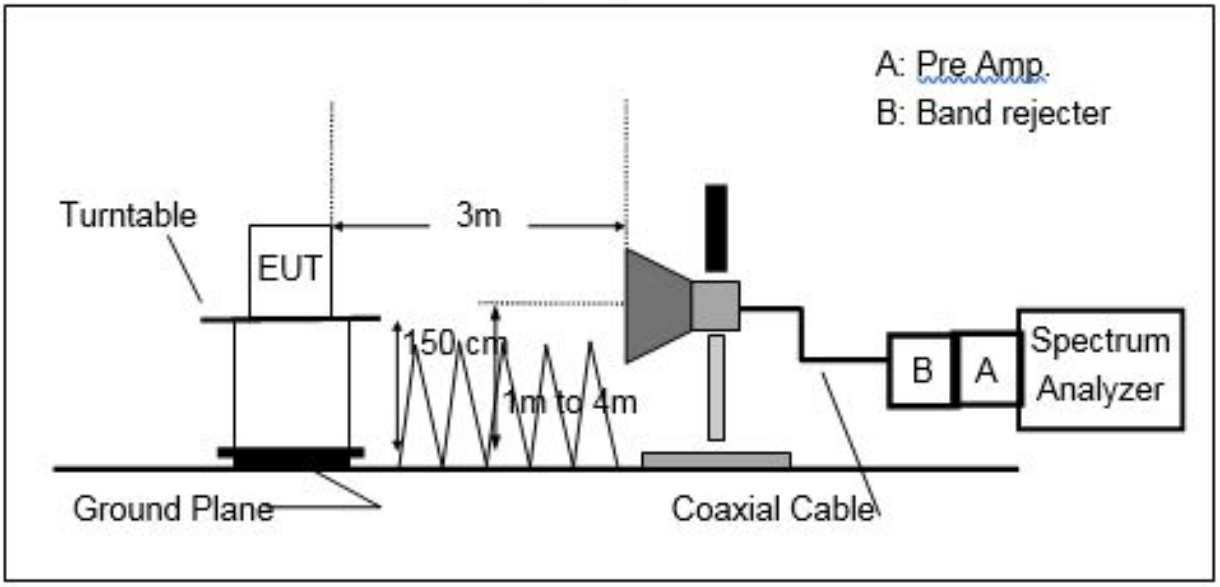
Out of band emissions.The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

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:

Radiated Emission Test Site: SAC 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Bi-log Antenna	SCHWAZBECK	VULB9168	443	01/19/2021	01/18/2022
Horn Antenna	SCHWAZBECK	BBHA9120D	320	02/05/2021	02/04/2022
Horn Antenna	SCHWAZBECK	BBHA9170	184	12/11/2020	12/10/2021
Horn Antenna	SCHWAZBECK	BBHA9170	185	07/30/2020	07/29/2021
Site Cal	SGS	SAC I chamber	N/A	01/01/2021	12/31/2021
Horn Antenna	Schwarzbeck	BBHA9120D	D803	12/17/2020	12/16/2021
Bi-log Antenna	TESEO	CBL 6112D	35242 & AT-N0555	01/13/2021	01/12/2022
Spectrum Analyzer	Agilent	E4446A	MY51100003	10/29/2020	10/28/2021
DC Power Supply	Agilent	E3640A	MY40005907	10/29/2020	10/28/2021
Test Software	audix	e3	Ver. 6.11-20180413	01/01/2021	12/31/2021
Pre-Amplifier	EMC Instruments	EMC184045B	980135	12/16/2020	12/15/2021
Pre-Amplifier	HP	8449B	3008A01973	12/16/2020	12/15/2021
Pre-Amplifier	HP	8447D	2944A09469	12/16/2020	12/15/2021
Bandreject Filter 635-920	Micro-Tronics	WI	4	12/16/2020	12/15/2021
Bandreject Filter 800-1000	Micro-Tronics	EWT	M1	12/16/2020	12/15/2021
Bandreject Filter 1700-2000	Micro-Tronics	EWT	M3	12/16/2020	12/15/2021
Bandreject Filter 2240-2700	Micro-Tronics	WI	2	12/16/2020	12/15/2021
1.3G-15GHz High Pass Filter	WI	WHKX10-1066-80SS	19	04/20/2021	12/15/2021
3.2GHz High Pass Filter	WI	WHKX10-2624-80SS	3	04/20/2021	12/15/2021
Coaxial Cable	Huber Suhner	succoflex 102	MY2622/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	succoflex 104A	800086/4a	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	EMC 104-SM-SM-2000	160123	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 104	160125	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 106	76096/6	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2630/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY22962/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	SN 520430/2	12/16/2020	12/15/2021

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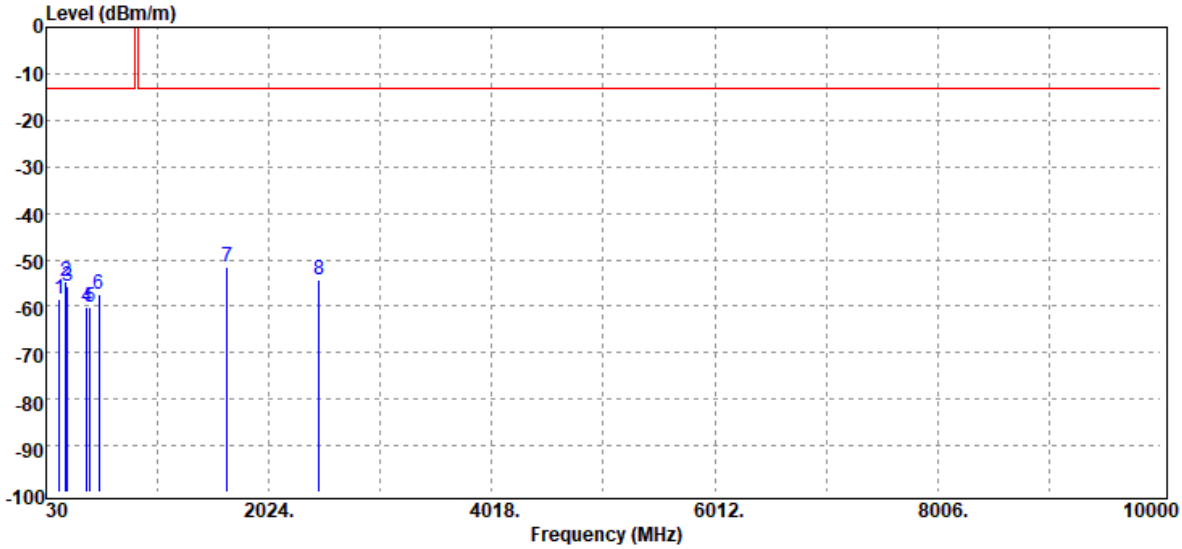
9.5 Measurement Result:

Report Number	:ER/2021/50133	Test Site	:SAC I Chamber
Operation Mode	:GPRS 850	Test Date	:2021-06-07
Test Mode	:Tx CH Low	Temp./Humi.	:26.8/62
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:824.2 MHz	Engineer	:GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
149.31	-58.31	-55.52	-1.64	-1.15	-13.00	-45.31
204.60	-54.84	-57.89	4.50	-1.45	-13.00	-41.84
224.00	-55.63	-59.13	5.02	-1.52	-13.00	-42.63
395.69	-60.23	-62.45	4.31	-2.09	-13.00	-47.23
420.91	-60.16	-62.47	4.21	-1.90	-13.00	-47.16
500.45	-57.45	-59.29	4.25	-2.41	-13.00	-44.45
1648.40	-51.47	-56.72	9.50	-4.25	-13.00	-38.47
2472.60	-54.26	-59.64	10.55	-5.17	-13.00	-41.26

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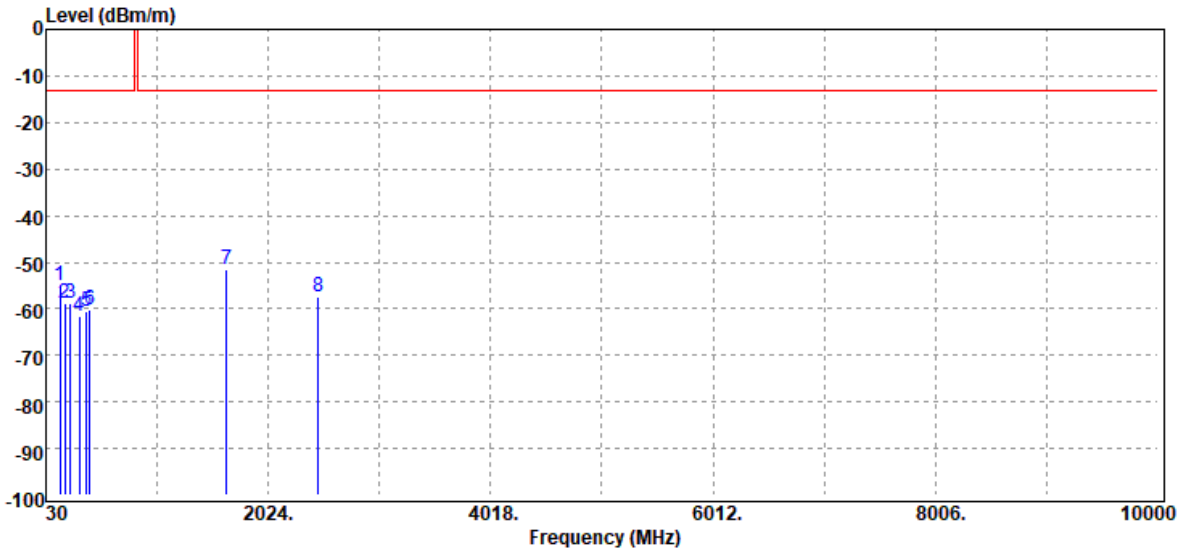
Report Number	:ER/2021/50133	Test Site	:SAC I Chamber
Operation Mode	:GPRS 850	Test Date	:2021-06-07
Test Mode	:Tx CH Low	Temp./Humi.	:26.8/62
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:824.2 MHz	Engineer	:GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
154.16	-54.92	-52.34	-1.39	-1.19	-13.00	-41.92
202.66	-58.78	-61.76	4.42	-1.44	-13.00	-45.78
250.19	-58.91	-61.66	4.34	-1.59	-13.00	-45.91
332.64	-61.71	-64.07	4.27	-1.91	-13.00	-48.71
395.69	-60.58	-62.80	4.31	-2.09	-13.00	-47.58
420.91	-60.07	-62.38	4.21	-1.90	-13.00	-47.07
1648.40	-51.50	-56.75	9.50	-4.25	-13.00	-38.50
2472.60	-57.42	-62.80	10.55	-5.17	-13.00	-44.42

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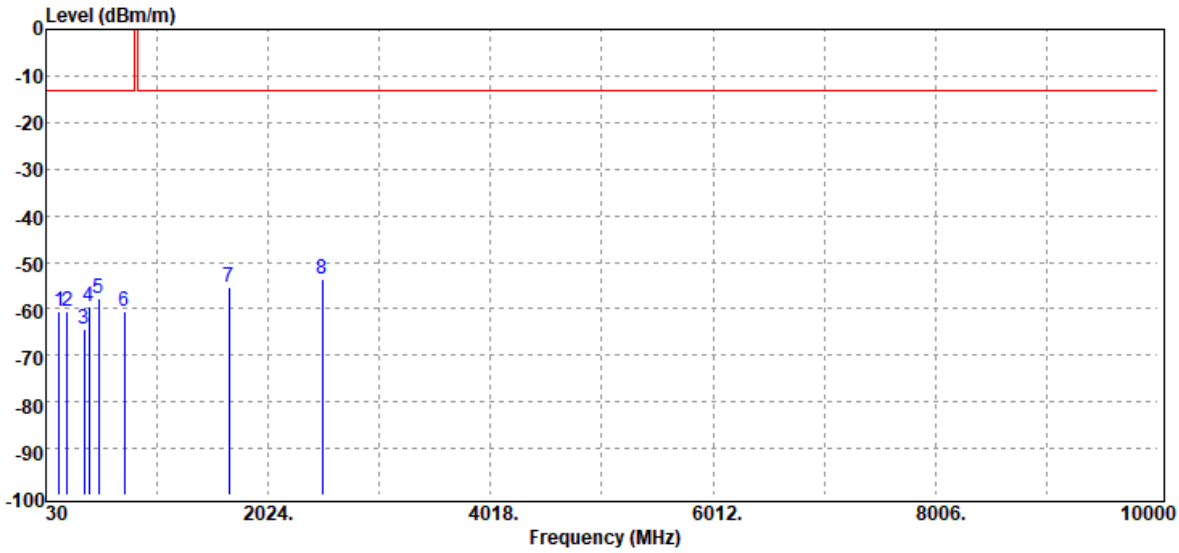
Report Number	:ER/2021/50133	Test Site	:SAC I Chamber
Operation Mode	:GPRS 850	Test Date	:2021-06-07
Test Mode	:Tx CH Mid	Temp./Humi.	:26.8/62
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:836.6 MHz	Engineer	:GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
149.31	-60.57	-57.78	-1.64	-1.15	-13.00	-47.57
222.06	-60.57	-64.10	5.03	-1.50	-13.00	-47.57
371.44	-64.26	-66.62	4.35	-1.99	-13.00	-51.26
416.06	-59.66	-62.11	4.32	-1.87	-13.00	-46.66
500.45	-57.77	-59.61	4.25	-2.41	-13.00	-44.77
735.19	-60.39	-60.82	3.00	-2.57	-13.00	-47.39
1673.20	-55.51	-60.77	9.55	-4.29	-13.00	-42.51
2509.80	-53.70	-59.12	10.62	-5.20	-13.00	-40.70

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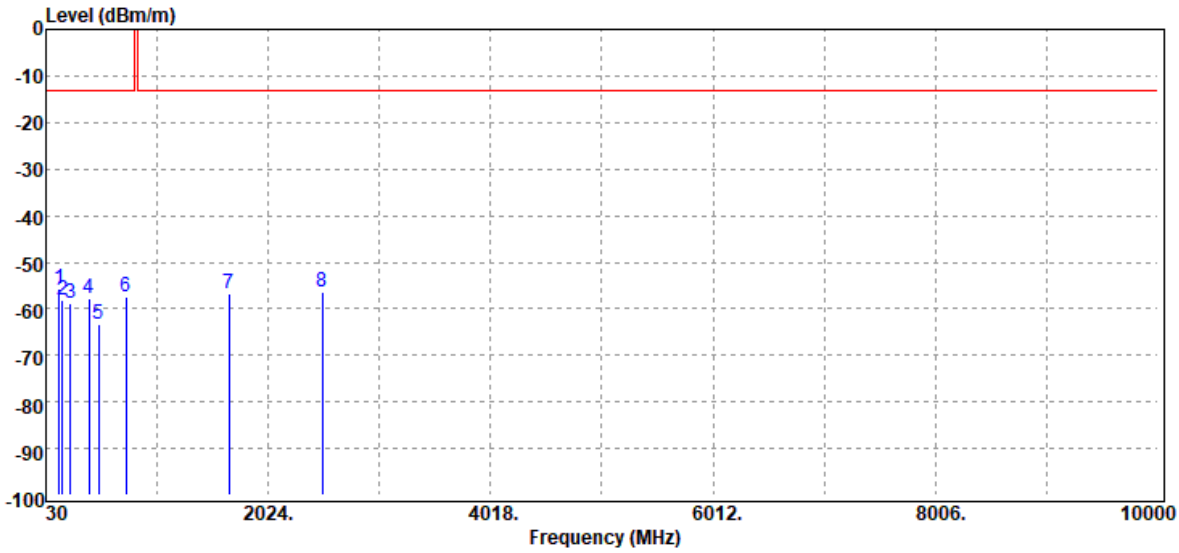
Report Number	:ER/2021/50133	Test Site	:SAC I Chamber
Operation Mode	:GPRS 850	Test Date	:2021-06-07
Test Mode	:Tx CH Mid	Temp./Humi.	:26.8/62
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:836.6 MHz	Engineer	:GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
149.31	-55.55	-52.76	-1.64	-1.15	-13.00	-42.55
178.41	-58.29	-58.02	1.09	-1.36	-13.00	-45.29
250.19	-58.81	-61.56	4.34	-1.59	-13.00	-45.81
416.06	-57.78	-60.23	4.32	-1.87	-13.00	-44.78
500.45	-63.17	-65.01	4.25	-2.41	-13.00	-50.17
745.86	-57.34	-57.72	2.83	-2.45	-13.00	-44.34
1673.20	-56.63	-61.89	9.55	-4.29	-13.00	-43.63
2509.80	-56.27	-61.69	10.62	-5.20	-13.00	-43.27

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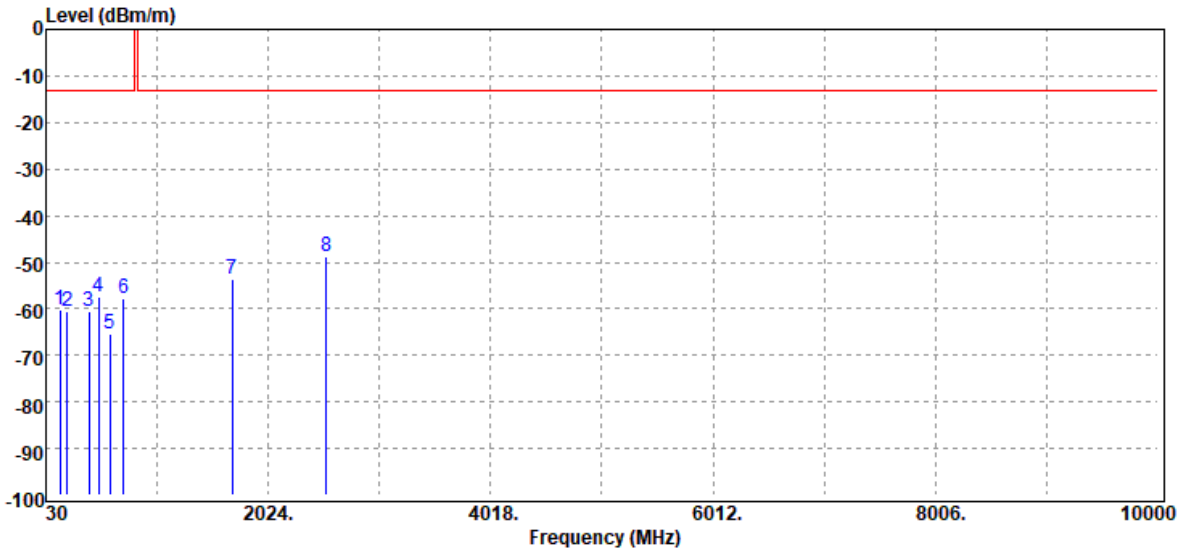
Report Number	:ER/2021/50133	Test Site	:SAC I Chamber
Operation Mode	:GPRS 850	Test Date	:2021-06-07
Test Mode	:Tx CH High	Temp./Humi.	:26.8/62
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:848.8 MHz	Engineer	:GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
154.16	-60.31	-57.73	-1.39	-1.19	-13.00	-47.31
222.06	-60.71	-64.24	5.03	-1.50	-13.00	-47.71
416.06	-60.39	-62.84	4.32	-1.87	-13.00	-47.39
500.45	-57.59	-59.43	4.25	-2.41	-13.00	-44.59
600.36	-65.51	-66.51	3.64	-2.64	-13.00	-52.51
728.40	-57.72	-58.16	3.16	-2.72	-13.00	-44.72
1697.60	-53.61	-58.89	9.60	-4.32	-13.00	-40.61
2546.40	-48.69	-54.14	10.69	-5.24	-13.00	-35.69

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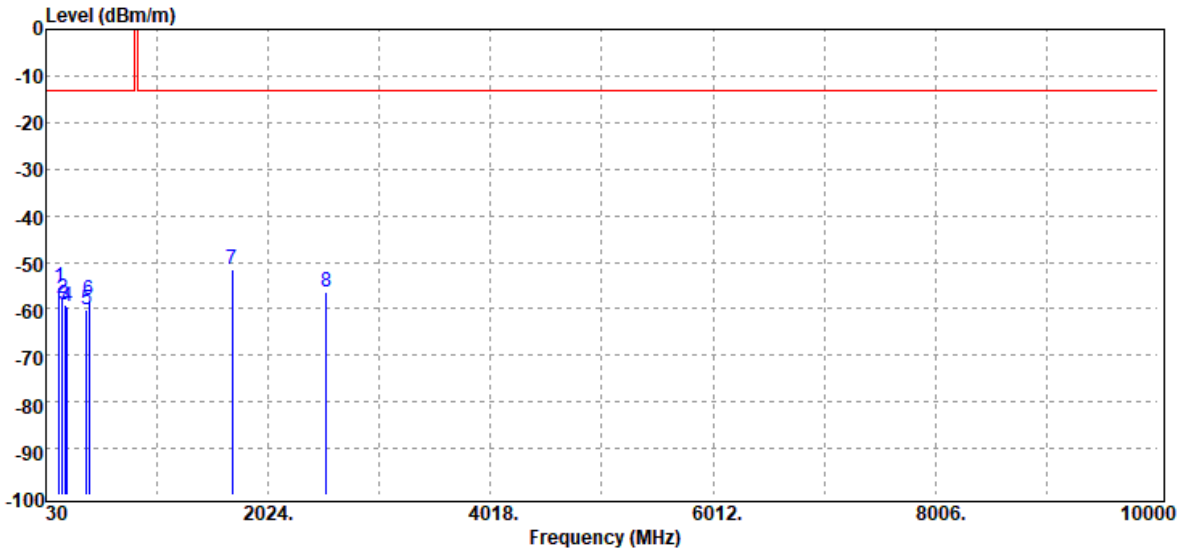
Report Number	:ER/2021/50133	Test Site	:SAC I Chamber
Operation Mode	:GPRS 850	Test Date	:2021-06-07
Test Mode	:Tx CH High	Temp./Humi.	:26.8/62
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:848.8 MHz	Engineer	:GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
151.25	-55.20	-52.49	-1.55	-1.16	-13.00	-42.20
178.41	-57.90	-57.63	1.09	-1.36	-13.00	-44.90
202.66	-59.01	-61.99	4.42	-1.44	-13.00	-46.01
224.00	-59.40	-62.90	5.02	-1.52	-13.00	-46.40
390.84	-60.08	-62.42	4.39	-2.05	-13.00	-47.08
416.06	-58.14	-60.59	4.32	-1.87	-13.00	-45.14
1697.60	-51.57	-56.85	9.60	-4.32	-13.00	-38.57
2546.40	-56.39	-61.84	10.69	-5.24	-13.00	-43.39

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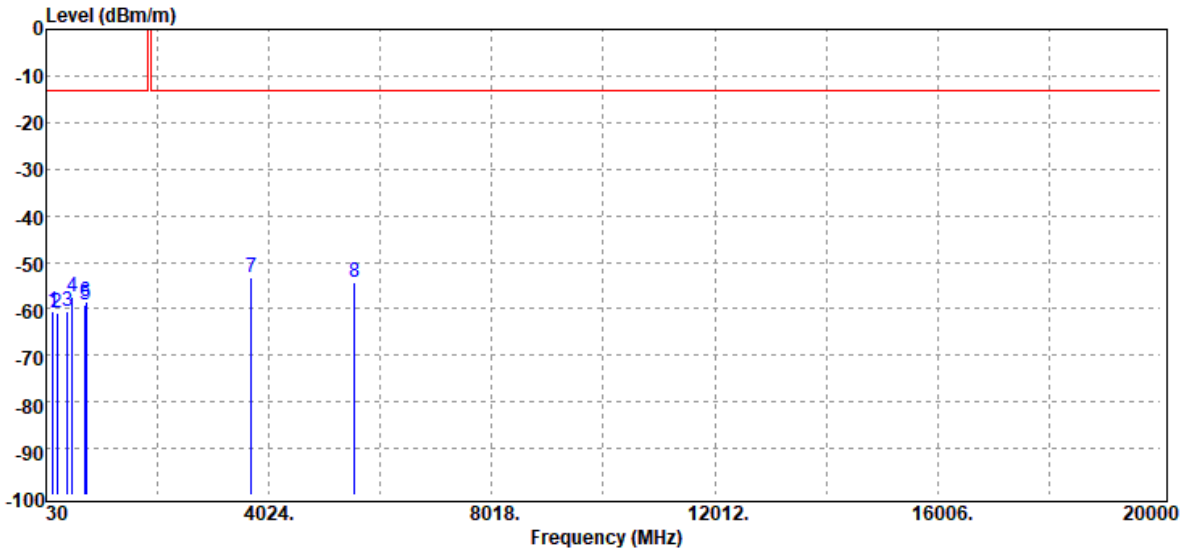
Report Number	:ER/2021/50133	Test Site	:SAC I Chamber
Operation Mode	:GPRS 1900	Test Date	:2021-06-07
Test Mode	:Tx CH Low	Temp./Humi.	:26.8/62
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1850.2 MHz	Engineer	:GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
151.25	-60.47	-57.76	-1.55	-1.16	-13.00	-47.47
222.06	-60.99	-64.52	5.03	-1.50	-13.00	-47.99
416.06	-60.54	-62.99	4.32	-1.87	-13.00	-47.54
500.45	-57.29	-59.13	4.25	-2.41	-13.00	-44.29
730.34	-59.17	-59.58	3.14	-2.73	-13.00	-46.17
745.86	-58.35	-58.73	2.83	-2.45	-13.00	-45.35
3700.40	-53.16	-57.94	12.30	-7.52	-13.00	-40.16
5550.60	-54.16	-57.48	12.90	-9.58	-13.00	-41.16

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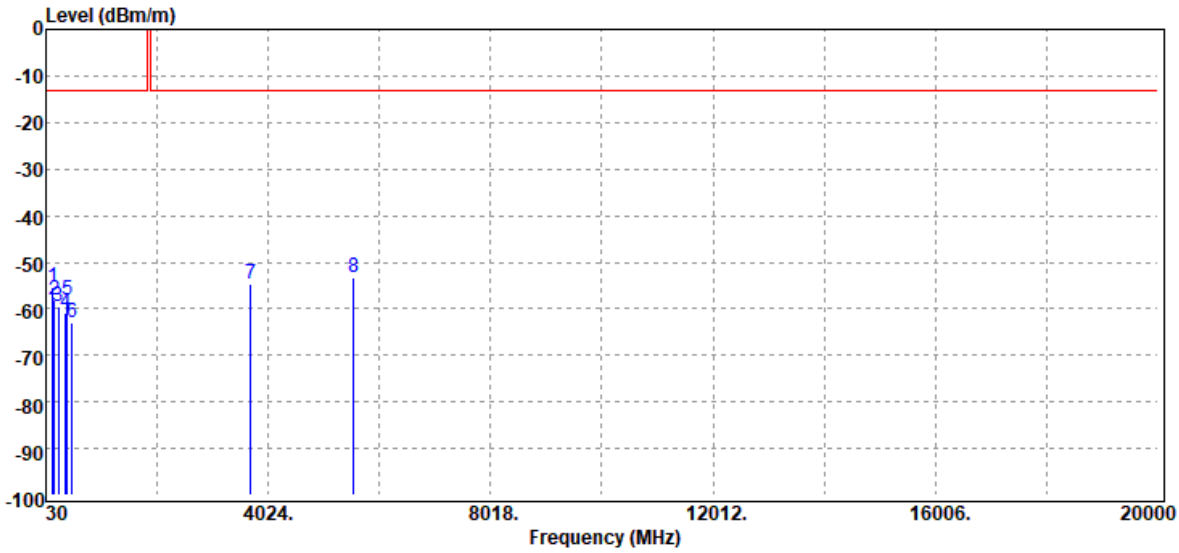
Report Number	:ER/2021/50133	Test Site	:SAC I Chamber
Operation Mode	:GPRS 1900	Test Date	:2021-06-07
Test Mode	:Tx CH Low	Temp./Humi.	:26.8/62
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:1850.2 MHz	Engineer	:GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
149.31	-55.30	-52.51	-1.64	-1.15	-13.00	-42.30
178.41	-58.07	-57.80	1.09	-1.36	-13.00	-45.07
251.16	-59.58	-62.32	4.33	-1.59	-13.00	-46.58
390.84	-60.81	-63.15	4.39	-2.05	-13.00	-47.81
416.06	-58.20	-60.65	4.32	-1.87	-13.00	-45.20
500.45	-63.15	-64.99	4.25	-2.41	-13.00	-50.15
3700.40	-54.59	-59.37	12.30	-7.52	-13.00	-41.59
5550.60	-53.44	-56.76	12.90	-9.58	-13.00	-40.44

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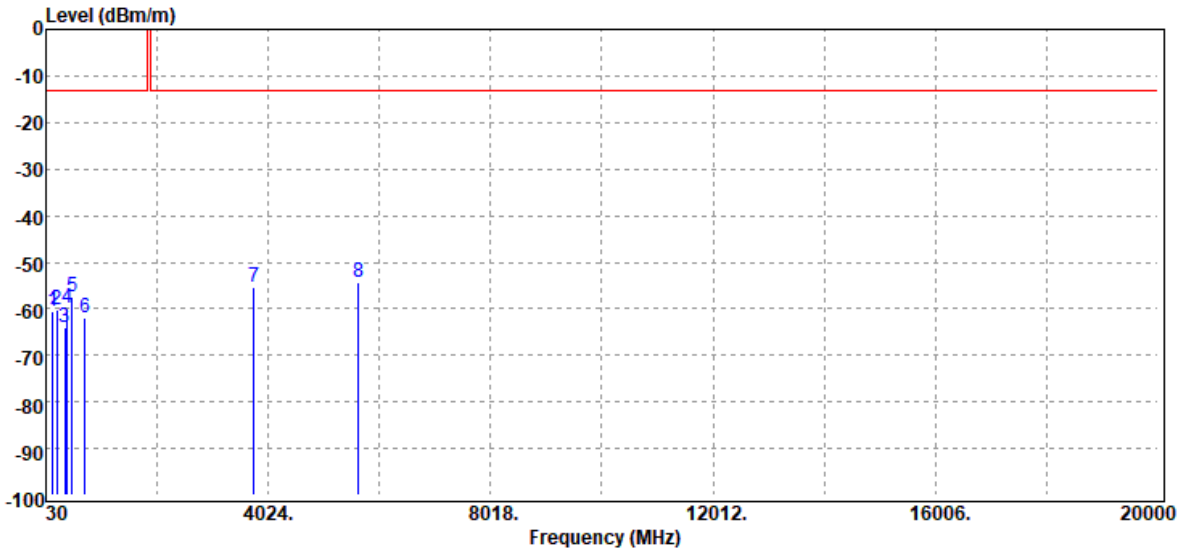
Report Number	:ER/2021/50133	Test Site	:SAC I Chamber
Operation Mode	:GPRS 1900	Test Date	:2021-06-07
Test Mode	:Tx CH Mid	Temp./Humi.	:26.8/62
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1880 MHz	Engineer	:GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
154.16	-60.45	-57.87	-1.39	-1.19	-13.00	-47.45
222.06	-60.12	-63.65	5.03	-1.50	-13.00	-47.12
371.44	-64.10	-66.46	4.35	-1.99	-13.00	-51.10
416.06	-59.90	-62.35	4.32	-1.87	-13.00	-46.90
500.45	-57.58	-59.42	4.25	-2.41	-13.00	-44.58
730.34	-61.88	-62.29	3.14	-2.73	-13.00	-48.88
3760.00	-55.39	-60.16	12.40	-7.63	-13.00	-42.39
5640.00	-54.32	-58.09	13.00	-9.23	-13.00	-41.32

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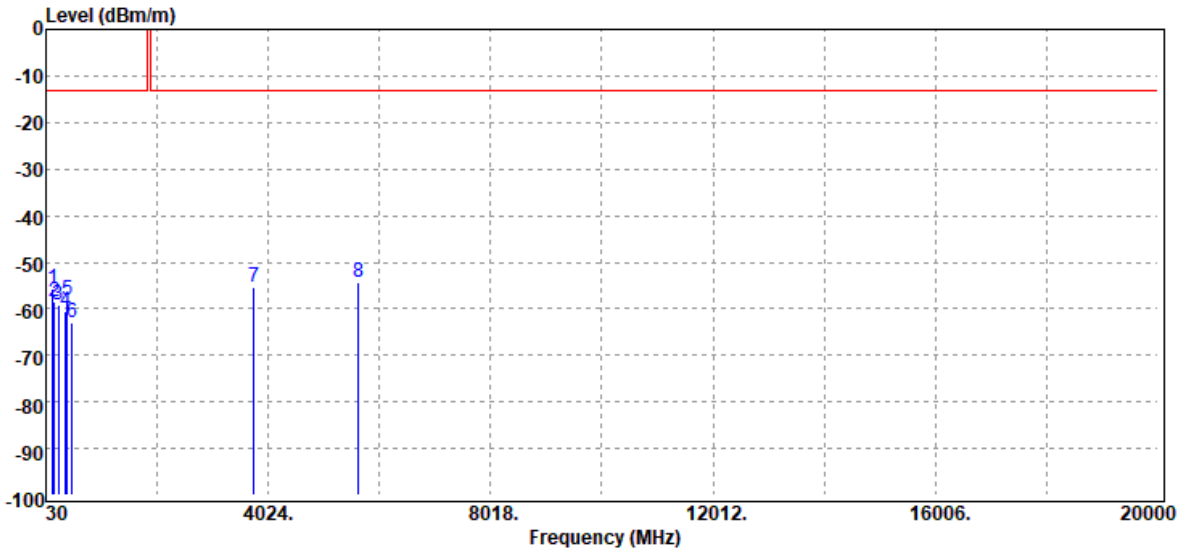
Report Number	:ER/2021/50133	Test Site	:SAC I Chamber
Operation Mode	:GPRS 1900	Test Date	:2021-06-07
Test Mode	:Tx CH Mid	Temp./Humi.	:26.8/62
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:1880 MHz	Engineer	:GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
149.31	-55.57	-52.78	-1.64	-1.15	-13.00	-42.57
180.35	-58.42	-58.51	1.47	-1.38	-13.00	-45.42
253.10	-59.26	-61.98	4.32	-1.60	-13.00	-46.26
390.84	-60.69	-63.03	4.39	-2.05	-13.00	-47.69
416.06	-57.99	-60.44	4.32	-1.87	-13.00	-44.99
500.45	-63.04	-64.88	4.25	-2.41	-13.00	-50.04
3760.00	-55.51	-60.28	12.40	-7.63	-13.00	-42.51
5640.00	-54.16	-57.93	13.00	-9.23	-13.00	-41.16

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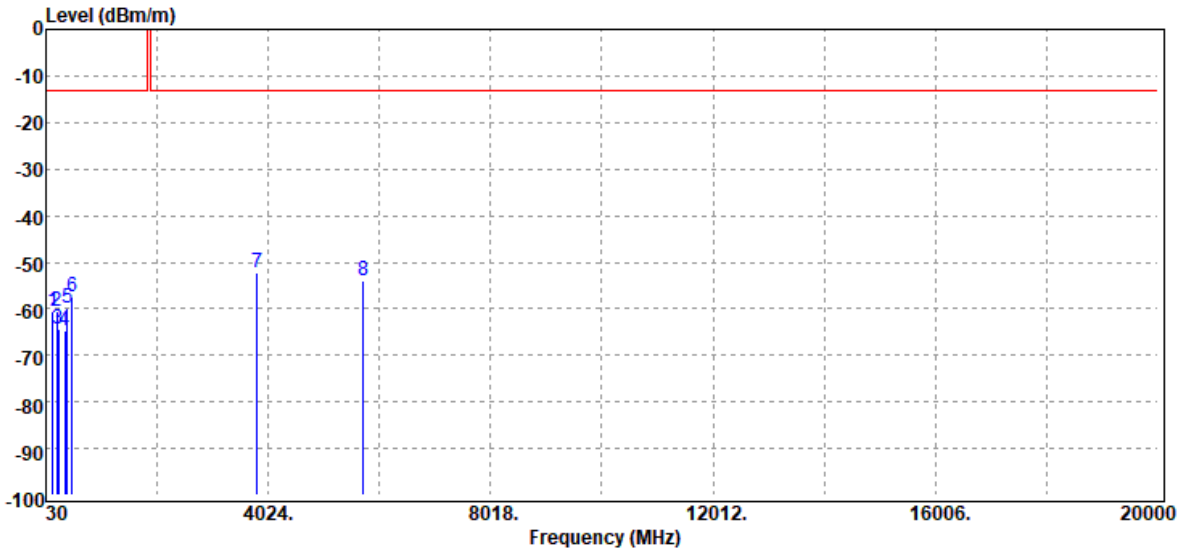
Report Number	:ER/2021/50133	Test Site	:SAC I Chamber
Operation Mode	:GPRS 1900	Test Date	:2021-06-07
Test Mode	:Tx CH High	Temp./Humi.	:26.8/62
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1909.8 MHz	Engineer	:GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
151.25	-60.42	-57.71	-1.55	-1.16	-13.00	-47.42
222.06	-60.39	-63.92	5.03	-1.50	-13.00	-47.39
257.95	-64.43	-67.15	4.35	-1.63	-13.00	-51.43
371.44	-64.55	-66.91	4.35	-1.99	-13.00	-51.55
416.06	-59.73	-62.18	4.32	-1.87	-13.00	-46.73
500.45	-57.47	-59.31	4.25	-2.41	-13.00	-44.47
3819.60	-52.25	-56.97	12.36	-7.64	-13.00	-39.25
5729.40	-53.92	-57.69	12.80	-9.03	-13.00	-40.92

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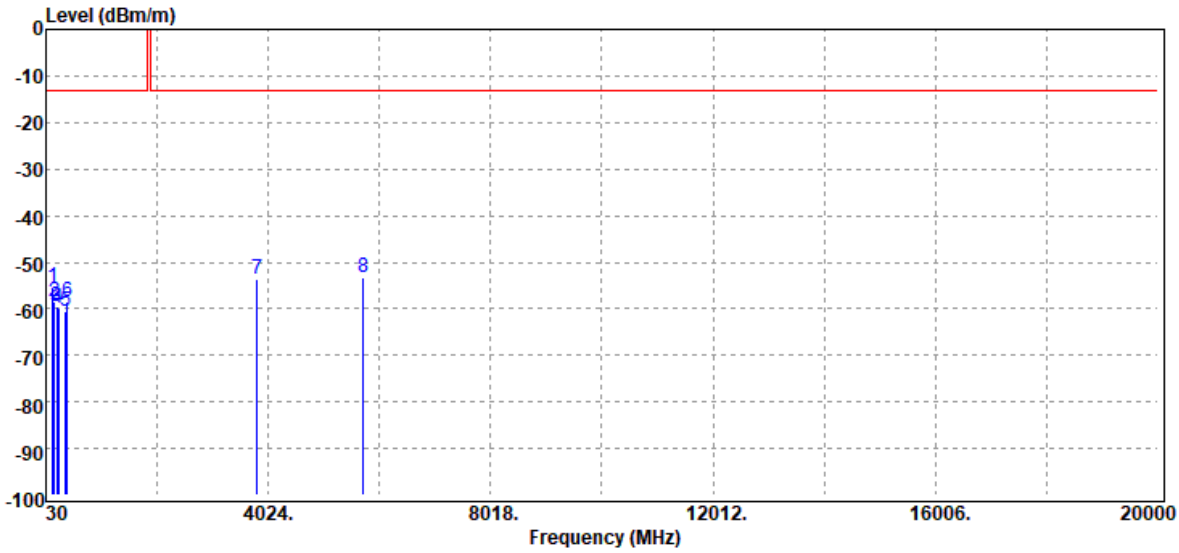
Report Number	:ER/2021/50133	Test Site	:SAC I Chamber
Operation Mode	:GPRS 1900	Test Date	:2021-06-07
Test Mode	:Tx CH High	Temp./Humi.	:26.8/62
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:1909.8 MHz	Engineer	:GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
149.31	-55.38	-52.59	-1.64	-1.15	-13.00	-42.38
180.35	-58.45	-58.54	1.47	-1.38	-13.00	-45.45
224.00	-59.37	-62.87	5.02	-1.52	-13.00	-46.37
251.16	-59.88	-62.62	4.33	-1.59	-13.00	-46.88
390.84	-60.71	-63.05	4.39	-2.05	-13.00	-47.71
416.06	-58.42	-60.87	4.32	-1.87	-13.00	-45.42
3819.60	-53.55	-58.27	12.36	-7.64	-13.00	-40.55
5729.40	-53.27	-57.04	12.80	-9.03	-13.00	-40.27

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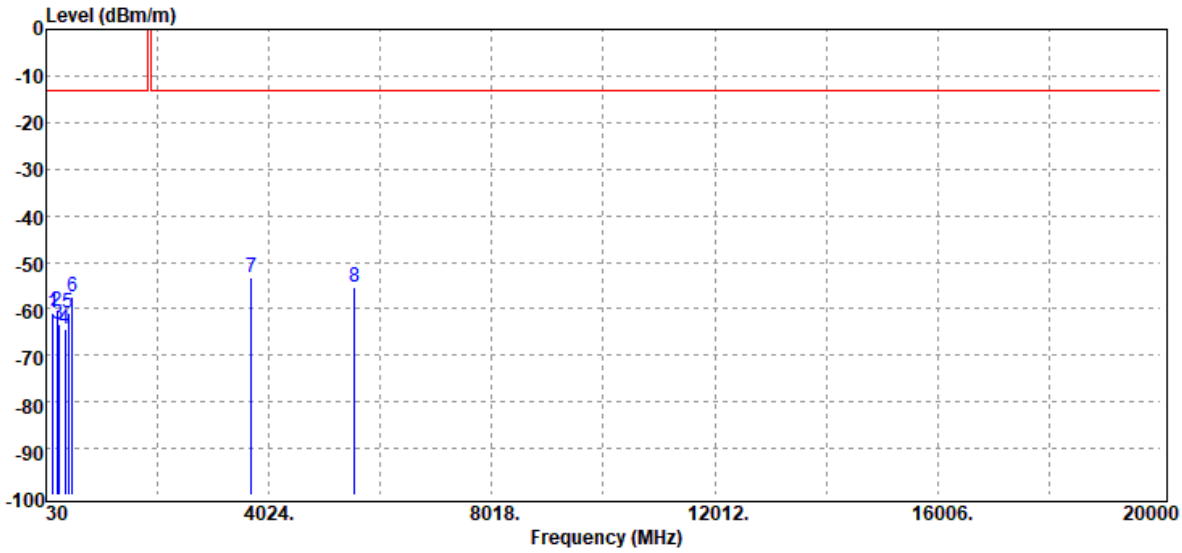
Report Number	:ER/2021/50133	Test Site	:SAC I Chamber
Operation Mode	:WCDMA B2	Test Date	:2021-06-07
Test Mode	:Tx CH Low	Temp./Humi.	:26.8/62
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1852.4 MHz	Engineer	:GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
154.16	-60.75	-58.17	-1.39	-1.19	-13.00	-47.75
222.06	-60.39	-63.92	5.03	-1.50	-13.00	-47.39
257.95	-63.32	-66.04	4.35	-1.63	-13.00	-50.32
371.44	-64.32	-66.68	4.35	-1.99	-13.00	-51.32
420.91	-60.88	-63.19	4.21	-1.90	-13.00	-47.88
500.45	-57.50	-59.34	4.25	-2.41	-13.00	-44.50
3704.80	-53.37	-58.15	12.31	-7.53	-13.00	-40.37
5557.20	-55.20	-58.56	12.91	-9.55	-13.00	-42.20

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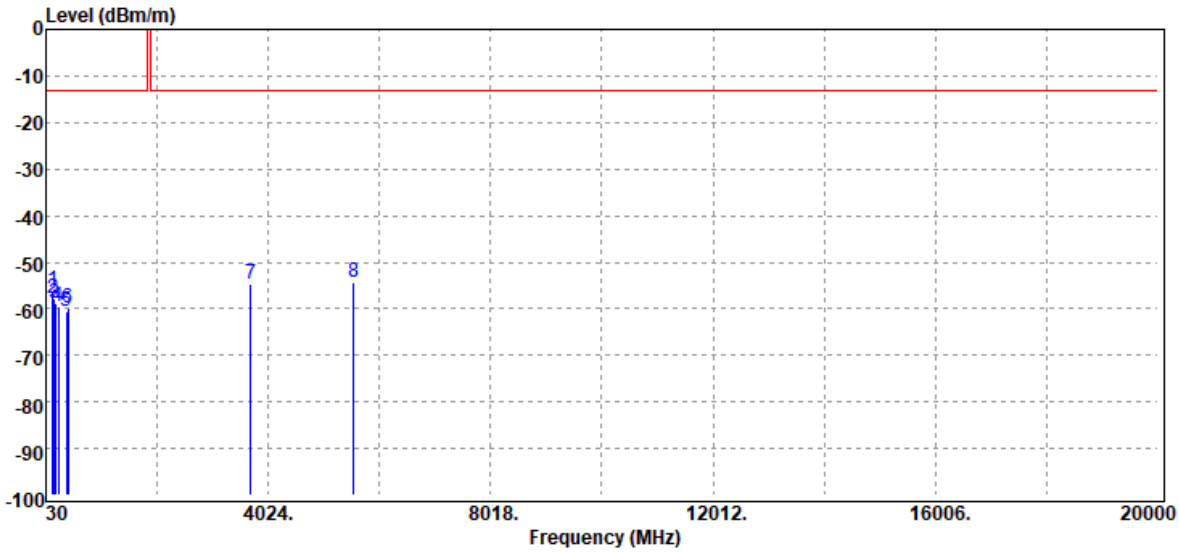
Report Number	:ER/2021/50133	Test Site	:SAC I Chamber
Operation Mode	:WCDMA B2	Test Date	:2021-06-07
Test Mode	:Tx CH Low	Temp./Humi.	:26.8/62
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:1852.4 MHz	Engineer	:GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
154.16	-56.04	-53.46	-1.39	-1.19	-13.00	-43.04
167.74	-57.94	-56.13	-0.55	-1.26	-13.00	-44.94
202.66	-58.88	-61.86	4.42	-1.44	-13.00	-45.88
253.10	-59.63	-62.35	4.32	-1.60	-13.00	-46.63
393.75	-60.55	-62.80	4.33	-2.08	-13.00	-47.55
420.91	-59.79	-62.10	4.21	-1.90	-13.00	-46.79
3704.80	-54.56	-59.34	12.31	-7.53	-13.00	-41.56
5557.20	-54.18	-57.54	12.91	-9.55	-13.00	-41.18

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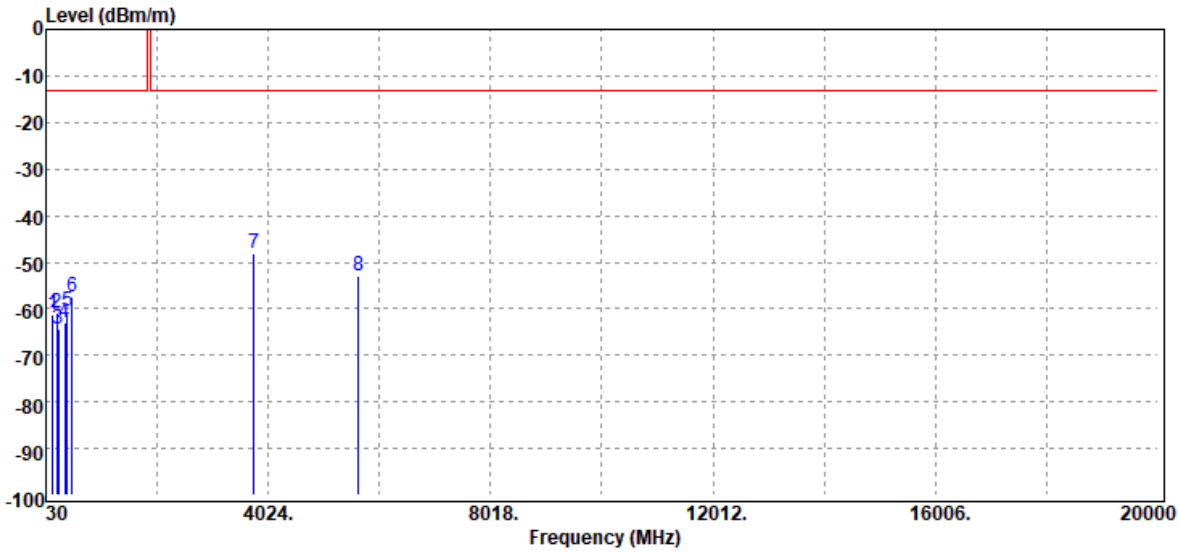
Report Number	:ER/2021/50133	Test Site	:SAC I Chamber
Operation Mode	:WCDMA B2	Test Date	:2021-06-07
Test Mode	:Tx CH Mid	Temp./Humi.	:26.8/62
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1880 MHz	Engineer	:GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
154.16	-61.08	-58.50	-1.39	-1.19	-13.00	-48.08
222.06	-60.75	-64.28	5.03	-1.50	-13.00	-47.75
257.95	-64.27	-66.99	4.35	-1.63	-13.00	-51.27
371.44	-63.02	-65.38	4.35	-1.99	-13.00	-50.02
419.94	-60.67	-63.03	4.25	-1.89	-13.00	-47.67
500.45	-57.53	-59.37	4.25	-2.41	-13.00	-44.53
3760.00	-48.15	-52.92	12.40	-7.63	-13.00	-35.15
5640.00	-52.89	-56.66	13.00	-9.23	-13.00	-39.89

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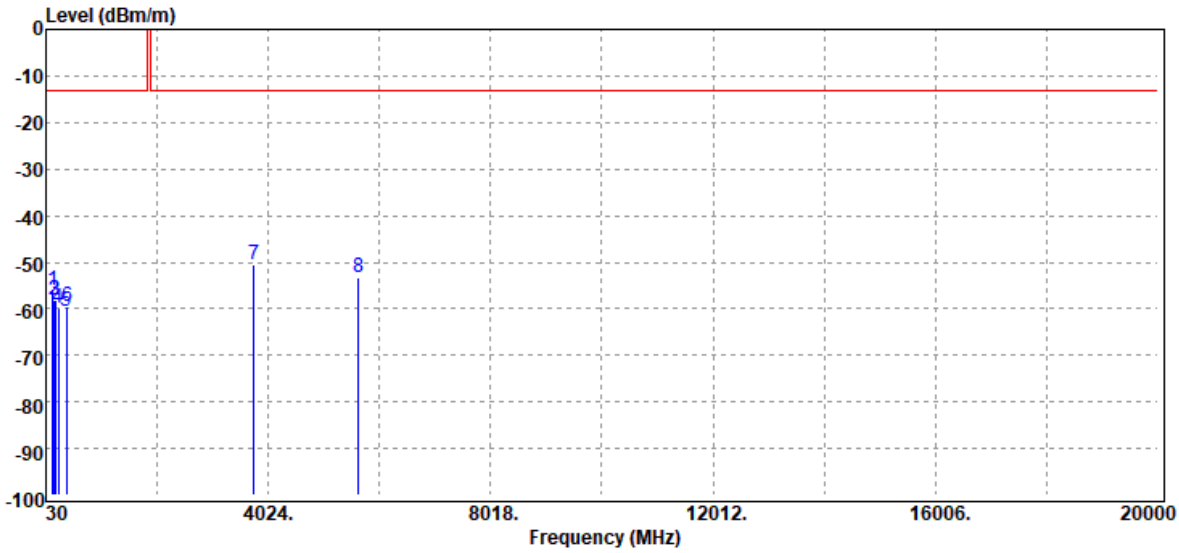
Report Number	:ER/2021/50133	Test Site	:SAC I Chamber
Operation Mode	:WCDMA B2	Test Date	:2021-06-07
Test Mode	:Tx CH Mid	Temp./Humi.	:26.8/62
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:1880 MHz	Engineer	:GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
154.16	-55.97	-53.39	-1.39	-1.19	-13.00	-42.97
178.41	-58.21	-57.94	1.09	-1.36	-13.00	-45.21
202.66	-58.30	-61.28	4.42	-1.44	-13.00	-45.30
250.19	-59.70	-62.45	4.34	-1.59	-13.00	-46.70
393.75	-60.53	-62.78	4.33	-2.08	-13.00	-47.53
419.94	-59.46	-61.82	4.25	-1.89	-13.00	-46.46
3760.00	-50.57	-55.34	12.40	-7.63	-13.00	-37.57
5640.00	-53.14	-56.91	13.00	-9.23	-13.00	-40.14

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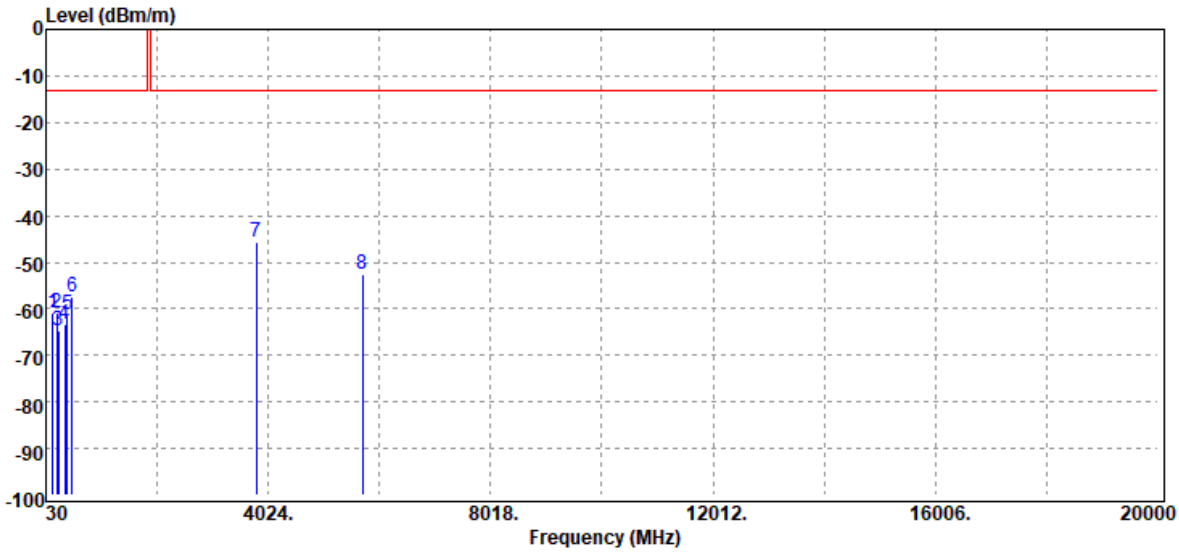
Report Number	:ER/2021/50133	Test Site	:SAC I Chamber
Operation Mode	:WCDMA B2	Test Date	:2021-06-07
Test Mode	:Tx CH High	Temp./Humi.	:26.8/62
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1907.6 MHz	Engineer	:GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
154.16	-60.86	-58.28	-1.39	-1.19	-13.00	-47.86
222.06	-60.79	-64.32	5.03	-1.50	-13.00	-47.79
257.95	-64.59	-67.31	4.35	-1.63	-13.00	-51.59
371.44	-63.48	-65.84	4.35	-1.99	-13.00	-50.48
419.94	-61.16	-63.52	4.25	-1.89	-13.00	-48.16
500.45	-57.37	-59.21	4.25	-2.41	-13.00	-44.37
3815.20	-45.57	-50.28	12.37	-7.66	-13.00	-32.57
5722.80	-52.54	-56.29	12.80	-9.05	-13.00	-39.54

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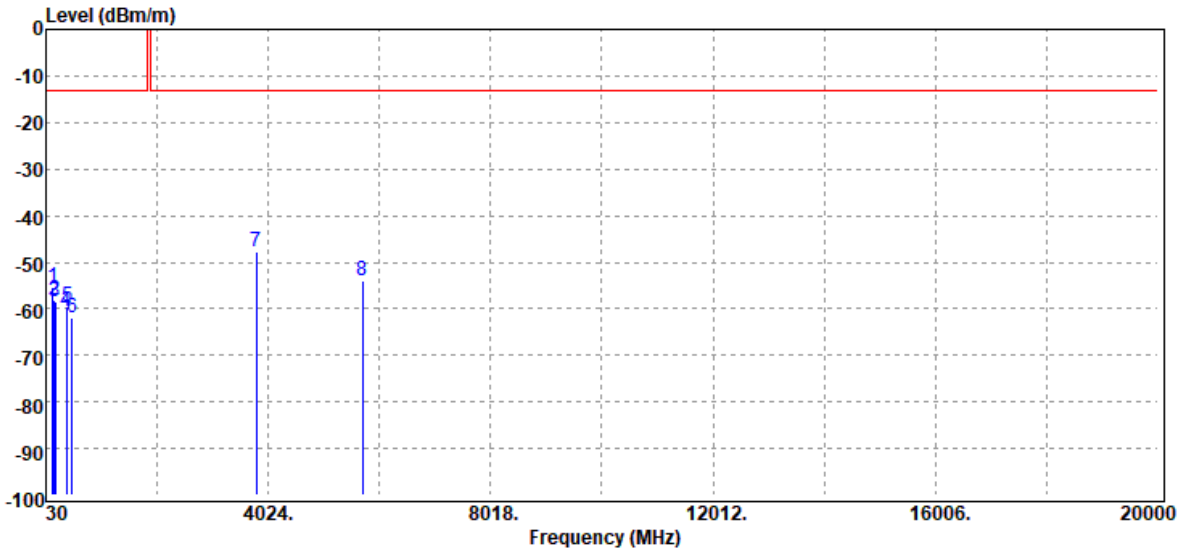
Report Number	:ER/2021/50133	Test Site	:SAC I Chamber
Operation Mode	:WCDMA B2	Test Date	:2021-06-07
Test Mode	:Tx CH High	Temp./Humi.	:26.8/62
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:1907.6 MHz	Engineer	:GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
154.16	-55.48	-52.90	-1.39	-1.19	-13.00	-42.48
178.41	-58.17	-57.90	1.09	-1.36	-13.00	-45.17
202.66	-58.54	-61.52	4.42	-1.44	-13.00	-45.54
393.75	-60.53	-62.78	4.33	-2.08	-13.00	-47.53
419.94	-59.49	-61.85	4.25	-1.89	-13.00	-46.49
500.45	-61.98	-63.82	4.25	-2.41	-13.00	-48.98
3815.20	-47.63	-52.34	12.37	-7.66	-13.00	-34.63
5722.80	-54.06	-57.81	12.80	-9.05	-13.00	-41.06

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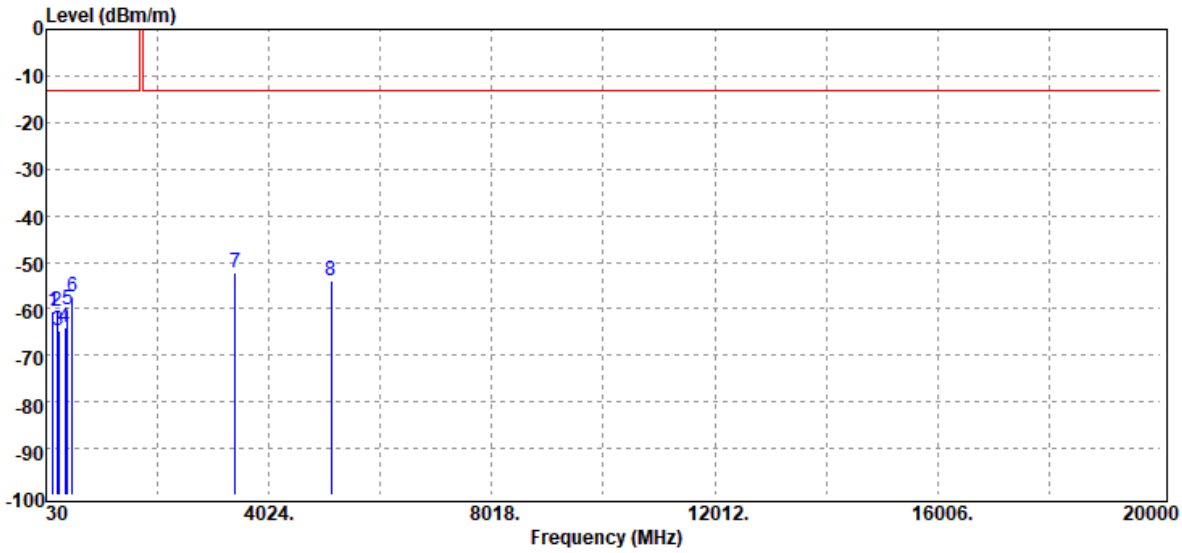
Report Number	:ER/2021/50133	Test Site	:SAC I Chamber
Operation Mode	:WCDMA B4	Test Date	:2021-06-07
Test Mode	:Tx CH Low	Temp./Humi.	:26.8/62
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1712.4 MHz	Engineer	:GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
154.16	-60.60	-58.02	-1.39	-1.19	-13.00	-47.60
222.06	-60.43	-63.96	5.03	-1.50	-13.00	-47.43
257.95	-64.57	-67.29	4.35	-1.63	-13.00	-51.57
371.44	-63.92	-66.28	4.35	-1.99	-13.00	-50.92
419.94	-60.30	-62.66	4.25	-1.89	-13.00	-47.30
500.45	-57.40	-59.24	4.25	-2.41	-13.00	-44.40
3424.80	-52.10	-58.80	12.55	-5.85	-13.00	-39.10
5137.20	-53.98	-58.13	12.10	-7.95	-13.00	-40.98

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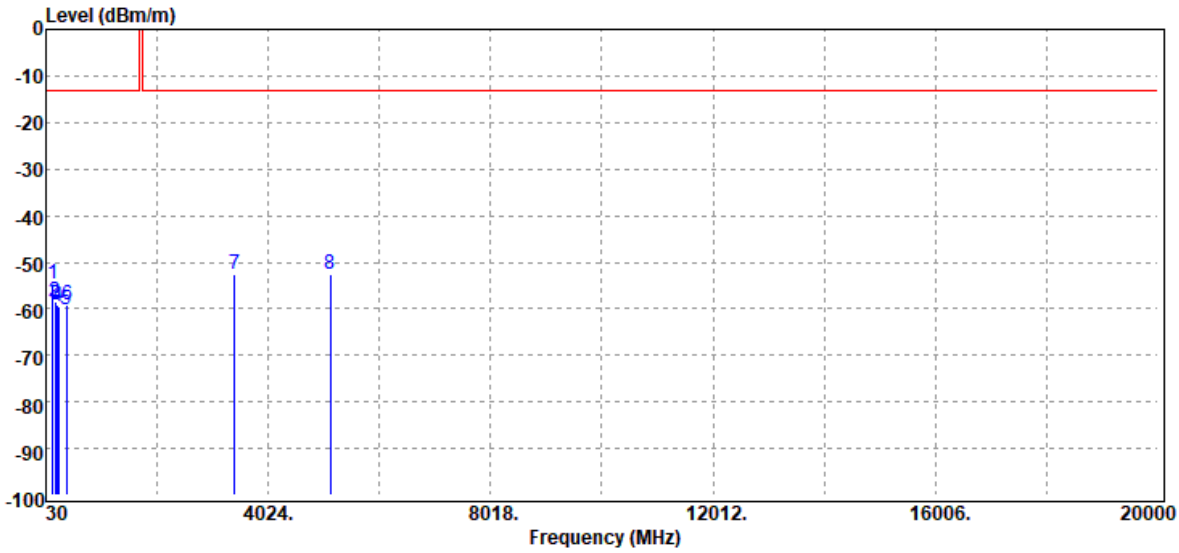
Report Number	:ER/2021/50133	Test Site	:SAC I Chamber
Operation Mode	:WCDMA B4	Test Date	:2021-06-07
Test Mode	:Tx CH Low	Temp./Humi.	:26.8/62
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:1712.4 MHz	Engineer	:GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
151.25	-54.73	-52.02	-1.55	-1.16	-13.00	-41.73
202.66	-58.37	-61.35	4.42	-1.44	-13.00	-45.37
224.00	-59.19	-62.69	5.02	-1.52	-13.00	-46.19
250.19	-59.47	-62.22	4.34	-1.59	-13.00	-46.47
391.81	-60.36	-62.67	4.37	-2.06	-13.00	-47.36
419.94	-59.27	-61.63	4.25	-1.89	-13.00	-46.27
3424.80	-52.68	-59.38	12.55	-5.85	-13.00	-39.68
5137.20	-52.58	-56.73	12.10	-7.95	-13.00	-39.58

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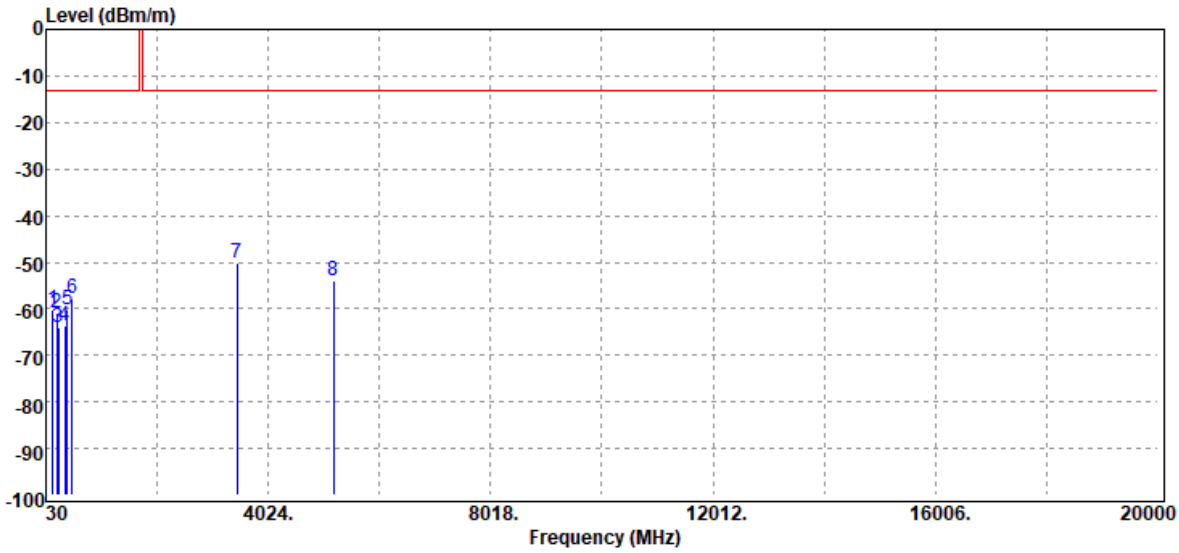
Report Number	:ER/2021/50133	Test Site	:SAC I Chamber
Operation Mode	:WCDMA B4	Test Date	:2021-06-07
Test Mode	:Tx CH Mid	Temp./Humi.	:26.8/62
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1732.4 MHz	Engineer	:GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
154.16	-60.20	-57.62	-1.39	-1.19	-13.00	-47.20
222.06	-60.83	-64.36	5.03	-1.50	-13.00	-47.83
257.95	-64.16	-66.88	4.35	-1.63	-13.00	-51.16
371.44	-63.64	-66.00	4.35	-1.99	-13.00	-50.64
418.00	-60.37	-62.77	4.28	-1.88	-13.00	-47.37
500.45	-57.65	-59.49	4.25	-2.41	-13.00	-44.65
3464.80	-50.20	-56.57	12.47	-6.10	-13.00	-37.20
5197.20	-53.82	-58.32	12.38	-7.88	-13.00	-40.82

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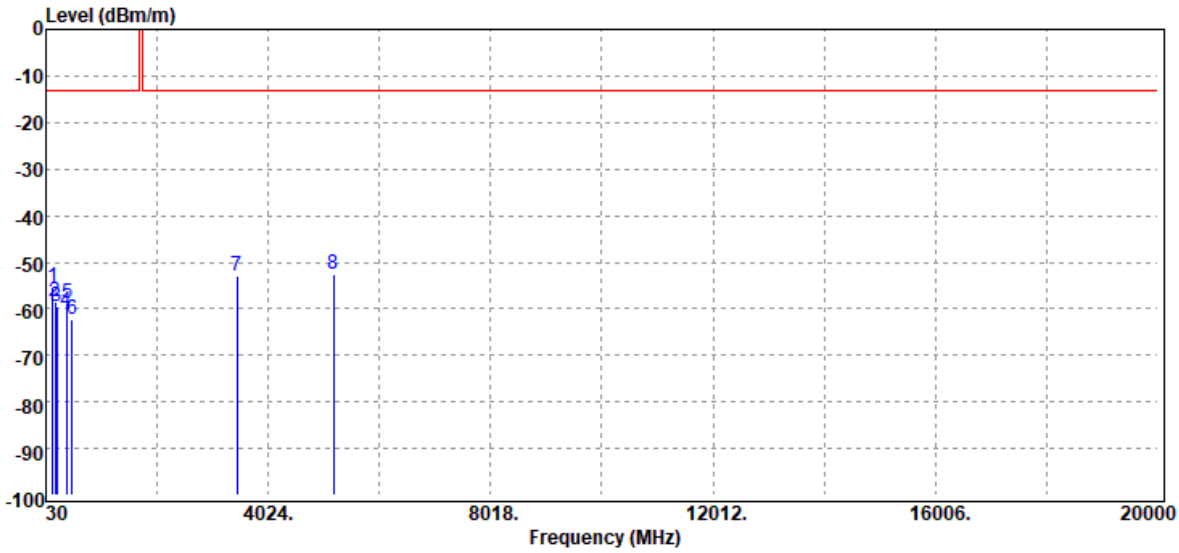
Report Number	:ER/2021/50133	Test Site	:SAC I Chamber
Operation Mode	:WCDMA B4	Test Date	:2021-06-07
Test Mode	:Tx CH Mid	Temp./Humi.	:26.8/62
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:1732.4 MHz	Engineer	:GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
149.31	-55.28	-52.49	-1.64	-1.15	-13.00	-42.28
202.66	-58.58	-61.56	4.42	-1.44	-13.00	-45.58
224.00	-59.46	-62.96	5.02	-1.52	-13.00	-46.46
391.81	-60.67	-62.98	4.37	-2.06	-13.00	-47.67
418.00	-58.84	-61.24	4.28	-1.88	-13.00	-45.84
500.45	-62.34	-64.18	4.25	-2.41	-13.00	-49.34
3464.80	-52.88	-59.25	12.47	-6.10	-13.00	-39.88
5197.20	-52.50	-57.00	12.38	-7.88	-13.00	-39.50

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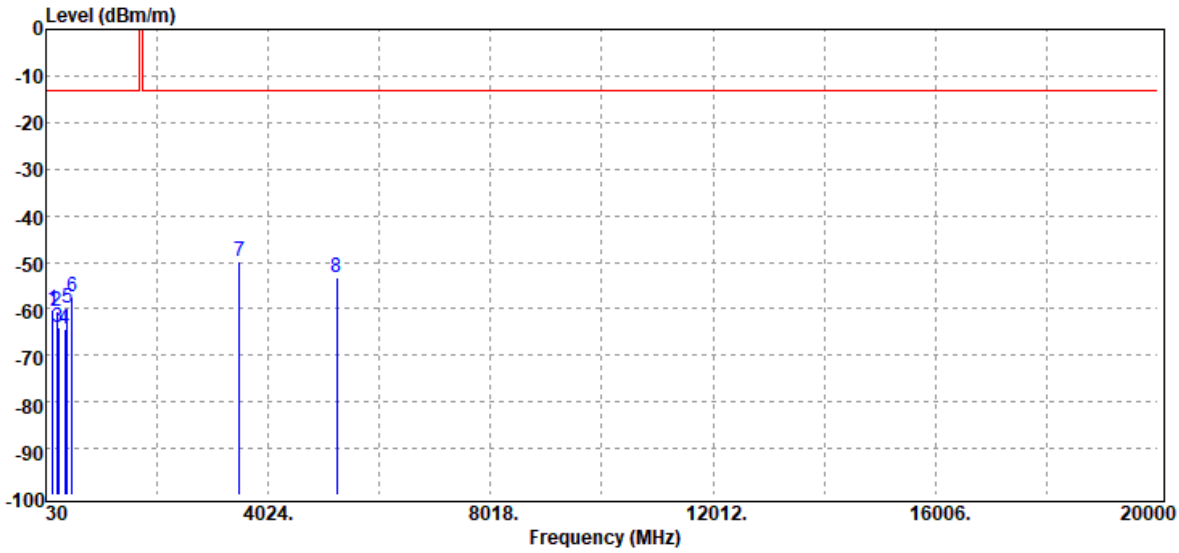
Report Number	:ER/2021/50133	Test Site	:SAC I Chamber
Operation Mode	:WCDMA B4	Test Date	:2021-06-07
Test Mode	:Tx CH High	Temp./Humi.	:26.8/62
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1752.6 MHz	Engineer	:GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
154.16	-60.30	-57.72	-1.39	-1.19	-13.00	-47.30
222.06	-60.70	-64.23	5.03	-1.50	-13.00	-47.70
257.95	-63.91	-66.63	4.35	-1.63	-13.00	-50.91
371.44	-64.35	-66.71	4.35	-1.99	-13.00	-51.35
418.00	-59.82	-62.22	4.28	-1.88	-13.00	-46.82
500.45	-57.56	-59.40	4.25	-2.41	-13.00	-44.56
3505.20	-49.73	-55.79	12.40	-6.34	-13.00	-36.73
5257.80	-53.15	-57.92	12.83	-8.06	-13.00	-40.15

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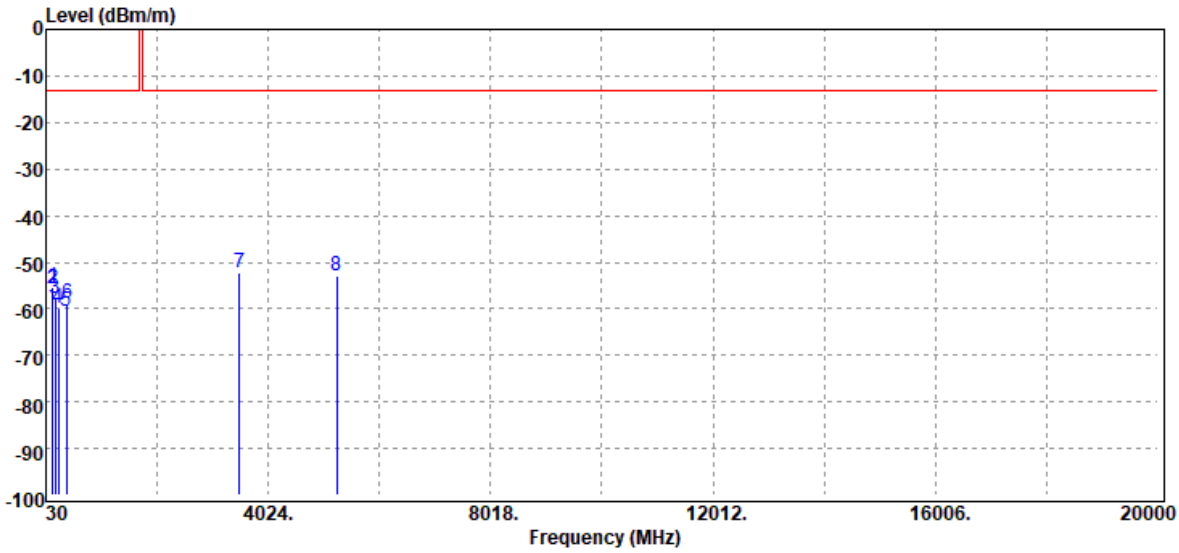
Report Number	:ER/2021/50133	Test Site	:SAC I Chamber
Operation Mode	:WCDMA B4	Test Date	:2021-06-07
Test Mode	:Tx CH High	Temp./Humi.	:26.8/62
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:1752.6 MHz	Engineer	:GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
149.31	-55.22	-52.43	-1.64	-1.15	-13.00	-42.22
154.16	-55.54	-52.96	-1.39	-1.19	-13.00	-42.54
202.66	-57.93	-60.91	4.42	-1.44	-13.00	-44.93
253.10	-59.93	-62.65	4.32	-1.60	-13.00	-46.93
391.81	-60.62	-62.93	4.37	-2.06	-13.00	-47.62
418.00	-58.84	-61.24	4.28	-1.88	-13.00	-45.84
3505.20	-52.08	-58.14	12.40	-6.34	-13.00	-39.08
5257.80	-52.94	-57.71	12.83	-8.06	-13.00	-39.94

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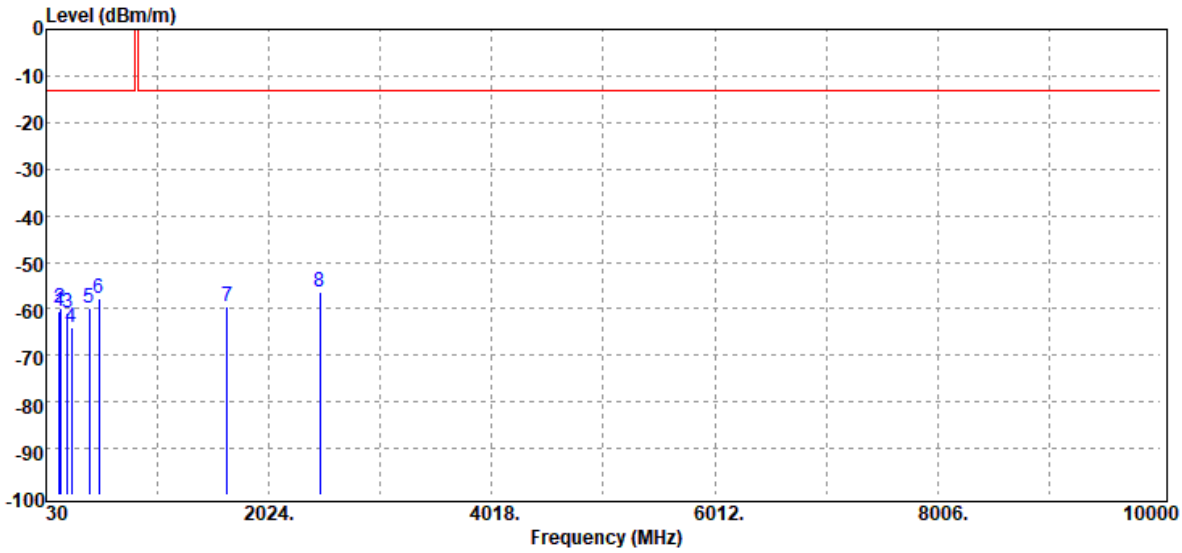
Report Number	:ER/2021/50133	Test Site	:SAC I Chamber
Operation Mode	:WCDMA B5	Test Date	:2021-06-07
Test Mode	:Tx CH Low	Temp./Humi.	:26.8/62
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:826.4 MHz	Engineer	:GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
151.25	-60.71	-58.00	-1.55	-1.16	-13.00	-47.71
154.16	-60.03	-57.45	-1.39	-1.19	-13.00	-47.03
222.06	-60.82	-64.35	5.03	-1.50	-13.00	-47.82
257.95	-63.99	-66.71	4.35	-1.63	-13.00	-50.99
418.00	-59.85	-62.25	4.28	-1.88	-13.00	-46.85
500.45	-57.62	-59.46	4.25	-2.41	-13.00	-44.62
1652.80	-59.46	-64.71	9.51	-4.26	-13.00	-46.46
2479.20	-56.53	-61.92	10.56	-5.17	-13.00	-43.53

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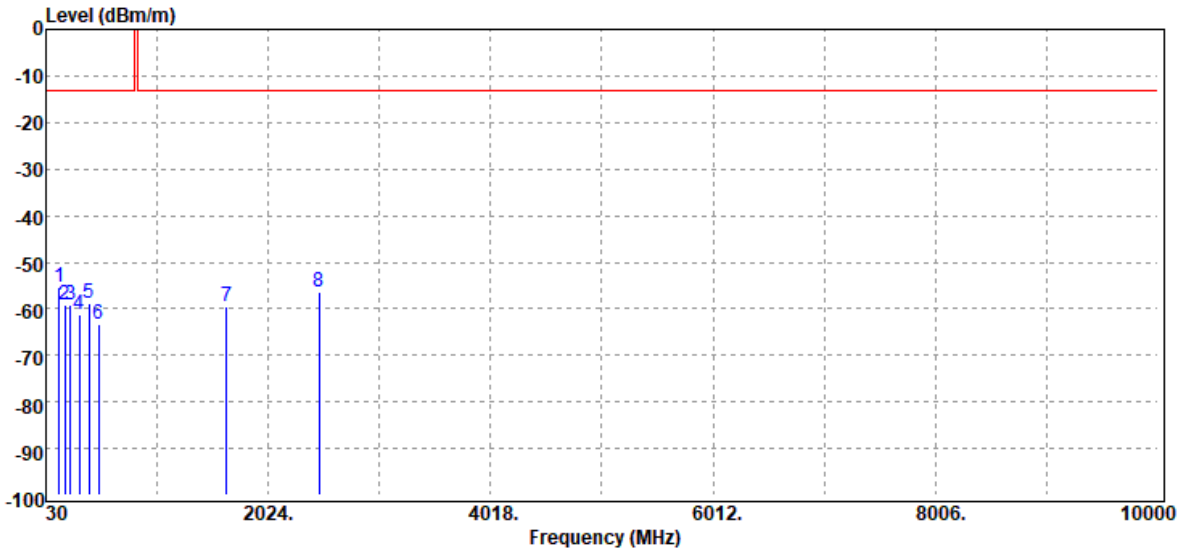
Report Number	:ER/2021/50133	Test Site	:SAC I Chamber
Operation Mode	:WCDMA B5	Test Date	:2021-06-07
Test Mode	:Tx CH Low	Temp./Humi.	:26.8/62
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:826.4 MHz	Engineer	:GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
151.25	-55.33	-52.62	-1.55	-1.16	-13.00	-42.33
202.66	-59.05	-62.03	4.42	-1.44	-13.00	-46.05
251.16	-59.22	-61.96	4.33	-1.59	-13.00	-46.22
332.64	-61.07	-63.43	4.27	-1.91	-13.00	-48.07
418.00	-58.77	-61.17	4.28	-1.88	-13.00	-45.77
500.45	-63.34	-65.18	4.25	-2.41	-13.00	-50.34
1652.80	-59.52	-64.77	9.51	-4.26	-13.00	-46.52
2479.20	-56.27	-61.66	10.56	-5.17	-13.00	-43.27

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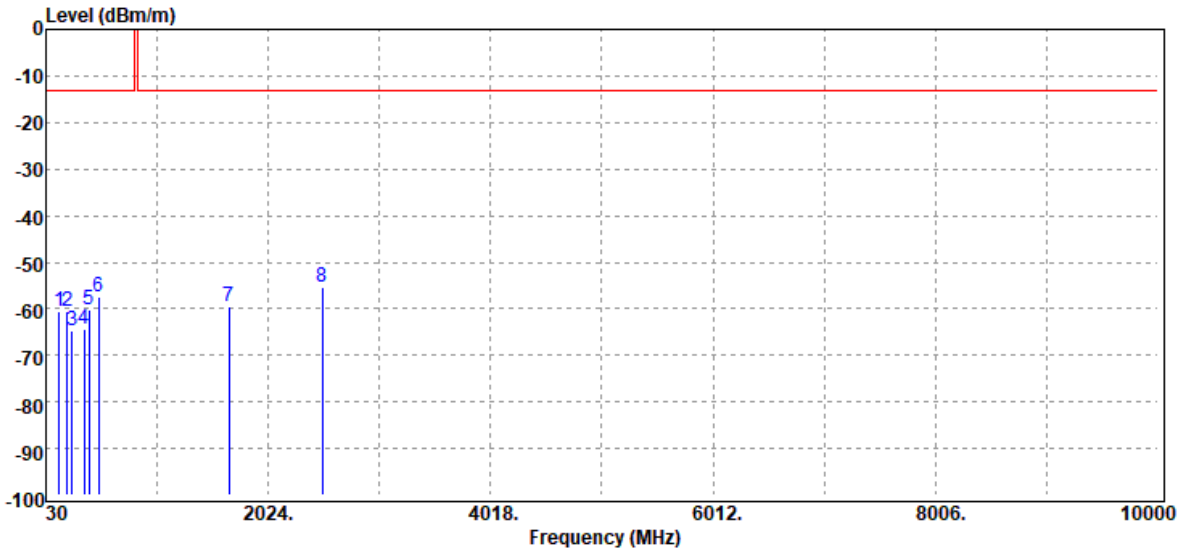
Report Number	:ER/2021/50133	Test Site	:SAC I Chamber
Operation Mode	:WCDMA B5	Test Date	:2021-06-07
Test Mode	:Tx CH Mid	Temp./Humi.	:26.8/62
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:836.6 MHz	Engineer	:GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
149.31	-60.48	-57.69	-1.64	-1.15	-13.00	-47.48
222.06	-60.64	-64.17	5.03	-1.50	-13.00	-47.64
264.74	-64.67	-67.37	4.35	-1.65	-13.00	-51.67
371.44	-64.19	-66.55	4.35	-1.99	-13.00	-51.19
418.00	-60.27	-62.67	4.28	-1.88	-13.00	-47.27
500.45	-57.57	-59.41	4.25	-2.41	-13.00	-44.57
1673.20	-59.35	-64.61	9.55	-4.29	-13.00	-46.35
2509.80	-55.21	-60.63	10.62	-5.20	-13.00	-42.21

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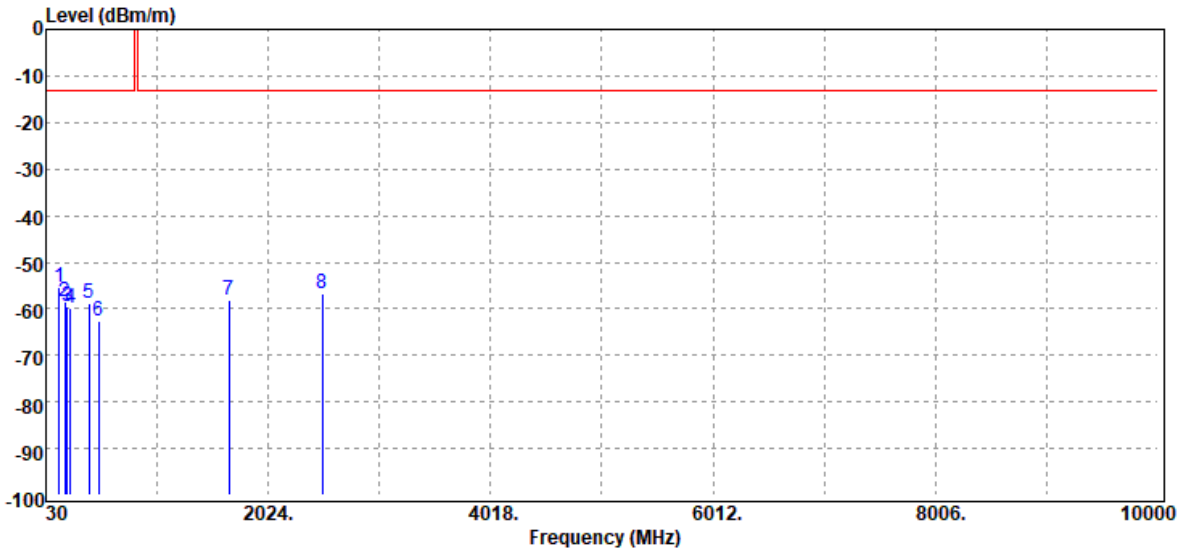
Report Number	:ER/2021/50133	Test Site	:SAC I Chamber
Operation Mode	:WCDMA B5	Test Date	:2021-06-07
Test Mode	:Tx CH Mid	Temp./Humi.	:26.8/62
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:836.6 MHz	Engineer	:GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
151.25	-55.31	-52.60	-1.55	-1.16	-13.00	-42.31
202.66	-58.49	-61.47	4.42	-1.44	-13.00	-45.49
224.00	-59.44	-62.94	5.02	-1.52	-13.00	-46.44
250.19	-59.76	-62.51	4.34	-1.59	-13.00	-46.76
418.00	-58.70	-61.10	4.28	-1.88	-13.00	-45.70
500.45	-62.74	-64.58	4.25	-2.41	-13.00	-49.74
1673.20	-58.21	-63.47	9.55	-4.29	-13.00	-45.21
2509.80	-56.91	-62.33	10.62	-5.20	-13.00	-43.91

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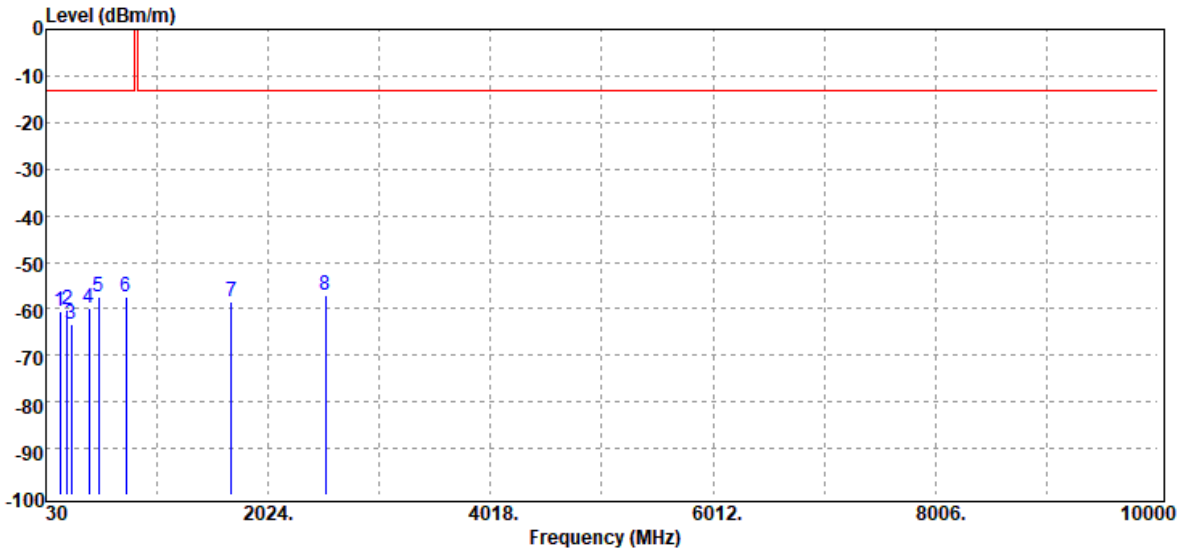
Report Number	:ER/2021/50133	Test Site	:SAC I Chamber
Operation Mode	:WCDMA B5	Test Date	:2021-06-07
Test Mode	:Tx CH High	Temp./Humi.	:26.8/62
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:846.6 MHz	Engineer	:GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
154.16	-60.52	-57.94	-1.39	-1.19	-13.00	-47.52
222.06	-60.11	-63.64	5.03	-1.50	-13.00	-47.11
257.95	-63.34	-66.06	4.35	-1.63	-13.00	-50.34
418.00	-59.81	-62.21	4.28	-1.88	-13.00	-46.81
500.45	-57.53	-59.37	4.25	-2.41	-13.00	-44.53
745.86	-57.37	-57.75	2.83	-2.45	-13.00	-44.37
1693.20	-58.36	-63.63	9.59	-4.32	-13.00	-45.36
2539.80	-57.18	-62.63	10.68	-5.23	-13.00	-44.18

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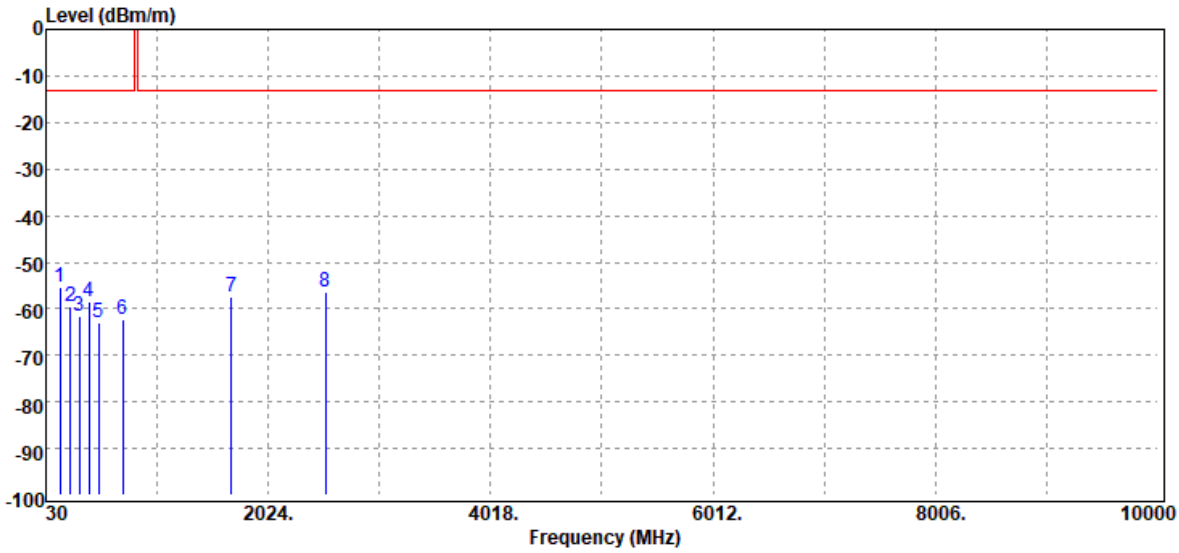
Report Number	:ER/2021/50133	Test Site	:SAC I Chamber
Operation Mode	:WCDMA B5	Test Date	:2021-06-07
Test Mode	:Tx CH High	Temp./Humi.	:26.8/62
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:846.6 MHz	Engineer	:GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
154.16	-55.39	-52.81	-1.39	-1.19	-13.00	-42.39
251.16	-59.45	-62.19	4.33	-1.59	-13.00	-46.45
328.76	-61.64	-64.00	4.24	-1.88	-13.00	-48.64
418.00	-58.45	-60.85	4.28	-1.88	-13.00	-45.45
500.45	-63.00	-64.84	4.25	-2.41	-13.00	-50.00
720.64	-62.22	-63.08	3.48	-2.62	-13.00	-49.22
1693.20	-57.37	-62.64	9.59	-4.32	-13.00	-44.37
2539.80	-56.29	-61.74	10.68	-5.23	-13.00	-43.29

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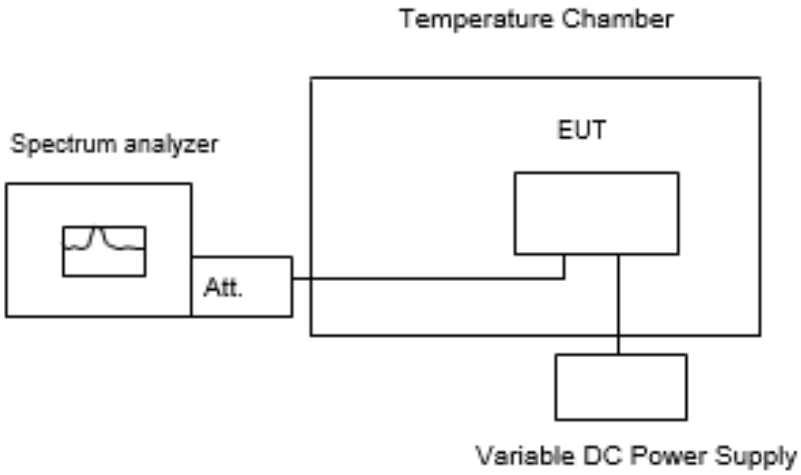
10 FREQUENCY STABILITY MEASUREMENT

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, the temperature of +60°C was requested by product spec.

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 Test Site: Conducted 4					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/27/2021	04/26/2022
Temperature Chamber	Giant Force	GTH-150-40-CP-AR	MAA0512-018	05/19/2021	05/18/2022
Radio Communication Analyer	Anritsu	MT8815B	6200711454	04/07/2021	04/06/2022
DC Power Supply	Agilent	E3640A	MY52410006	12/17/2020	12/16/2021
Attenuator	Mini-Circuit	BW-S10W2+	2	12/16/2020	12/15/2021
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021
Power Divider	RF-LAMBAD	RFLT2W1G 18G	11-JSPF412-018	12/16/2020	12/15/2021

10.5 Measurement Result

Note: *The battery is rated 12Vdc.*
The temperature of +60°C was requested by product spec.

GPRS 850 Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
13.2	20	836.600009	9	2091
12	20	836.600001	1	2091
10.8	20	836.599992	-8	2091
6.3 (End point)	20	836.599992	-8	2091
FREQUENCY ERROR vs. Temp.				
12	60	836.599992	-8	2091
12	50	836.600001	1	2091
12	40	836.600003	3	2091
12	30	836.600002	2	2091
12	20	836.599995	-5	2091
12	10	836.599994	-6	2091
12	0	836.599996	-4	2091
12	-10	836.600009	9	2091
12	-20	836.600004	4	2091
12	-30	836.599997	-3	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				
13.2	20	1879.99999	-10	4700
12	20	1879.999995	-5	4700
10.8	20	1880.000001	1	4700
6.3 (End point)	20	1880.00001	10	4700
FREQUENCY ERROR vs. Temp.				
12	60	1880.000009	9	4700
12	50	1879.999999	-1	4700
12	40	1879.999989	-11	4700
12	30	1880.000006	6	4700
12	20	1880.000004	4	4700
12	10	1880.000011	11	4700
12	0	1880.000008	8	4700
12	-10	1880.000005	5	4700
12	-20	1880.000007	7	4700
12	-30	1880	0	4700

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WCDMA II Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
13.2	20	1880.000005	5	4700
12	20	1879.999991	-9	4700
10.8	20	1880.000009	9	4700
6.3 (End point)	20	1880.000004	4	4700
FREQUENCY ERROR vs. Temp.				
12	60	1880.000008	8	4700
12	50	1879.99999	-10	4700
12	40	1879.999989	-11	4700
12	30	1880.00001	10	4700
12	20	1879.999989	-11	4700
12	10	1880.000001	1	4700
12	0	1880.000011	11	4700
12	-10	1880.000007	7	4700
12	-20	1879.999995	-5	4700
12	-30	1879.999995	-5	4700

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WCDMA IV Mid Channel 1732.6 MHz				
Limit: +/- 2.5 ppm				
Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
13.2	20	1732.600001	1	4331
12	20	1732.599998	-2	4331
10.8	20	1732.600007	7	4331
6.3 (End point)	20	1732.599992	-8	4331
FREQUENCY ERROR vs. Temp.				
12	60	1732.600012	12	4331
12	50	1732.600009	9	4331
12	40	1732.600004	4	4331
12	30	1732.600002	2	4331
12	20	1732.599995	-5	4331
12	10	1732.600002	2	4331
12	0	1732.59999	-10	4331
12	-10	1732.600002	2	4331
12	-20	1732.599992	-8	4331
12	-30	1732.599993	-7	4331

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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				
13.2	20	836.599993	-7	2091
12	20	836.600006	6	2091
10.8	20	836.600007	7	2091
6.3 (End point)	20	836.600006	6	2091
FREQUENCY ERROR vs. Temp.				
12	60	836.599991	-9	2091
12	50	836.600009	9	2091
12	40	836.60001	10	2091
12	30	836.599995	-5	2091
12	20	836.600001	1	2091
12	10	836.599998	-2	2091
12	0	836.600005	5	2091
12	-10	836.599993	-7	2091
12	-20	836.599999	-1	2091
12	-30	836.600001	1	2091

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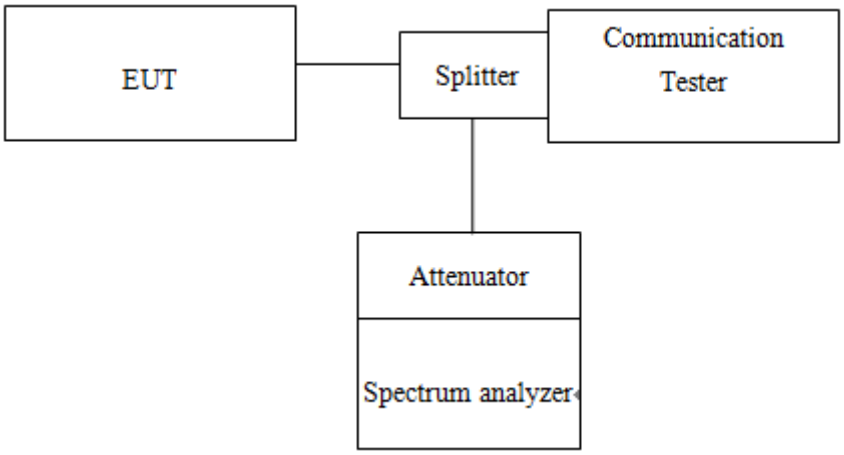
11 PEAK TO AVERAGE RATIO

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 Test Site: Conducted 4					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/27/2021	04/26/2022
Temperature Chamber	Giant Force	GTH-150-40-CP-AR	MAA0512-018	05/19/2021	05/18/2022
Radio Communication Analyer	Anritsu	MT8815B	6200711454	04/07/2021	04/06/2022
DC Power Supply	Agilent	E3640A	MY52410006	12/17/2020	12/16/2021
Attenuator	Mini-Circuit	BW-S10W2+	2	12/16/2020	12/15/2021
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021
Power Divider	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-018	12/16/2020	12/15/2021

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11.6 Measurement Result

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		GSM 850	GPRS 850	EDGE 850
824.2	128	10.16	9.46	12.9
836.6	190	8.44	9.53	12.05
848.8	251	9.68	9.48	12.22

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		GSM 1900	GPRS 1900	EDGE 1900
1850.2	512	9.4	9.5	12.29
1880	661	9.43	9.94	12.37
1909.8	810	10.36	10.28	12.8

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA II	HSDPA II	HSUPA II
1852.4	9262	2.99	4.01	4.13
1880	9400	2.95	4.22	4.06
1907.6	9538	2.81	4.08	3.81

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA IV	HSDPA IV	HSUPA IV
1712.4	1312	3.02	3.88	4.04
1732.6	1413	3.02	4.14	4.02
1752.6	1513	2.97	3.60	3.80

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA V	HSDPA V	HSUPA V
826.4	4132	3.31	4.22	3.89
836.6	4183	3.33	4.06	4.13
846.6	4233	3.50	4.20	4.19

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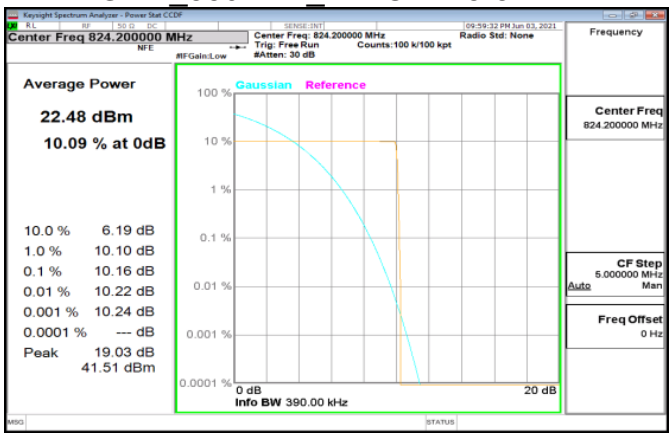
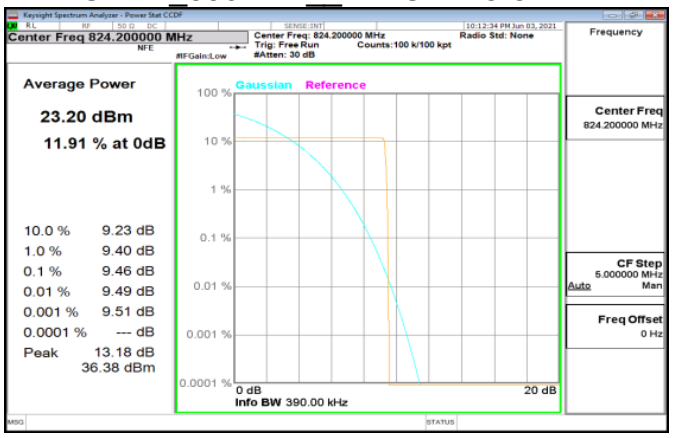
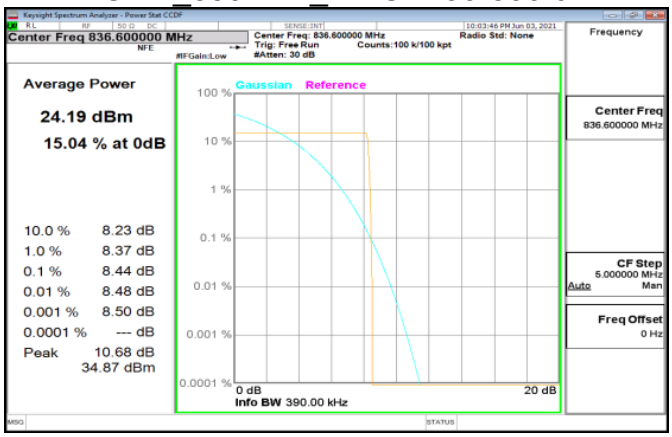
GSM_850MHz_LowCH128-824.2



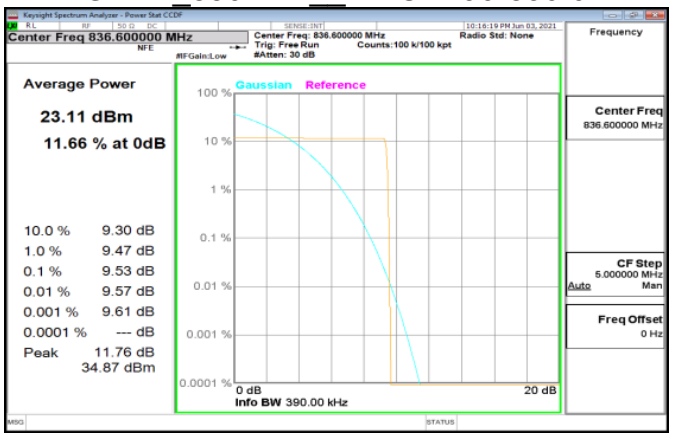
GPRS_850MHz__LowCH128-824.2



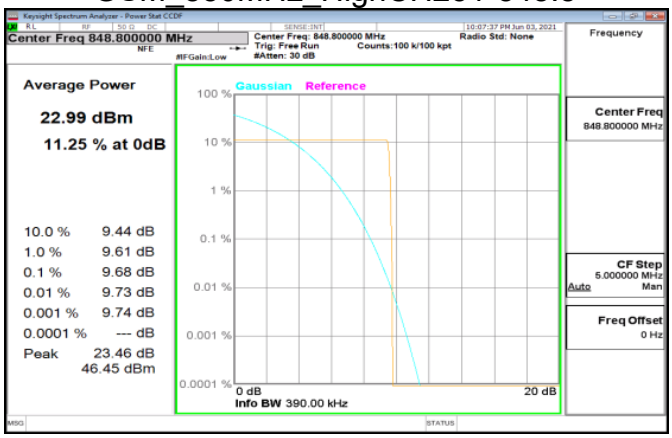
GSM_850MHz_MidCH190-836.6



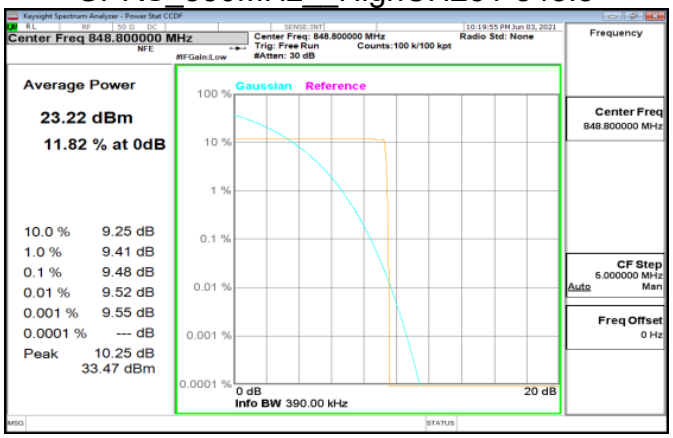
GPRS_850MHz__MidCH190-836.6



GSM_850MHz_HighCH251-848.8



GPRS_850MHz__HighCH251-848.8



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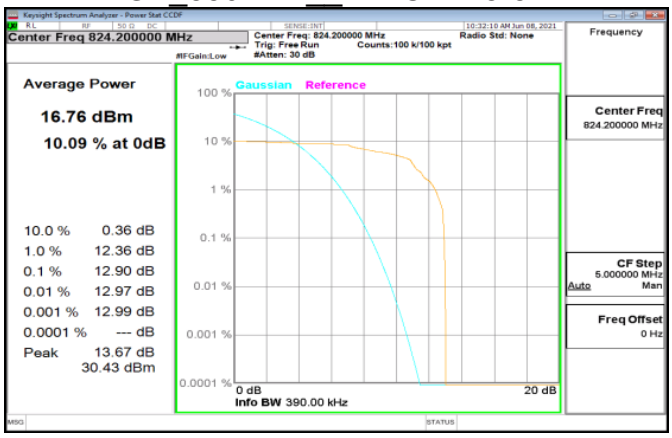
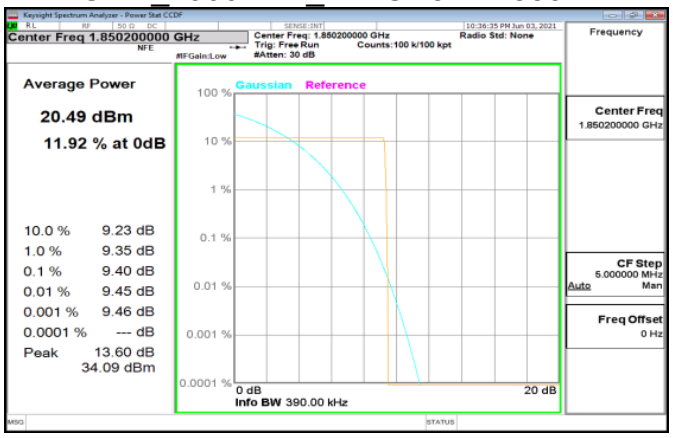
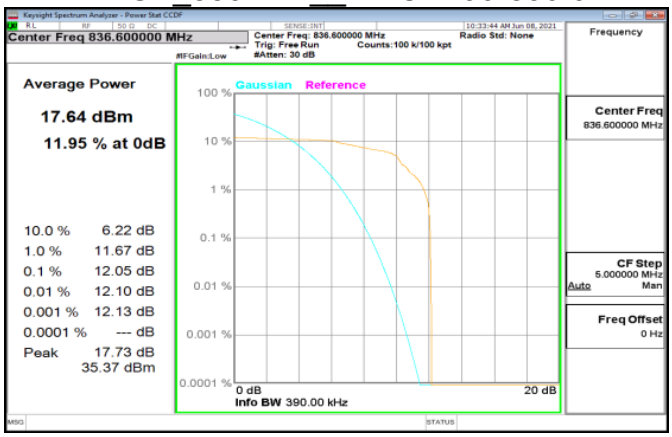
EDGE_850MHz__LowCH128-824.2



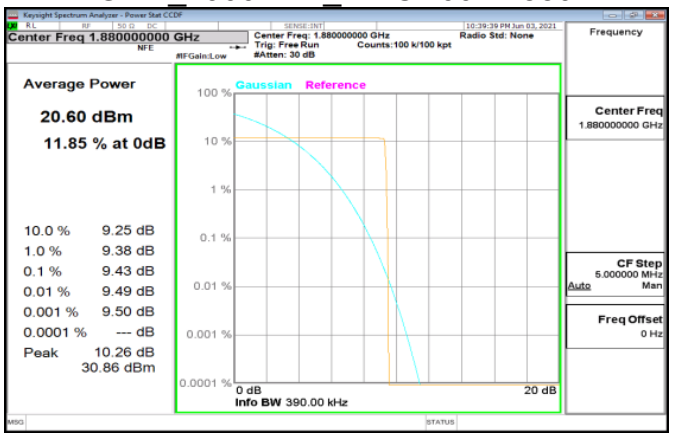
GSM_1900MHz_LowCH512-1850.2



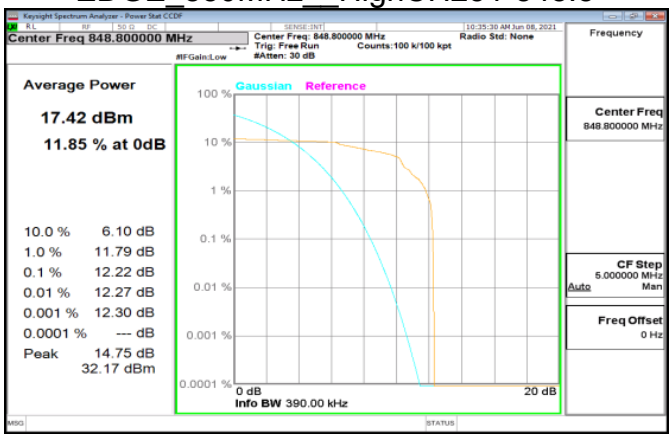
EDGE_850MHz__MidCH190-836.6



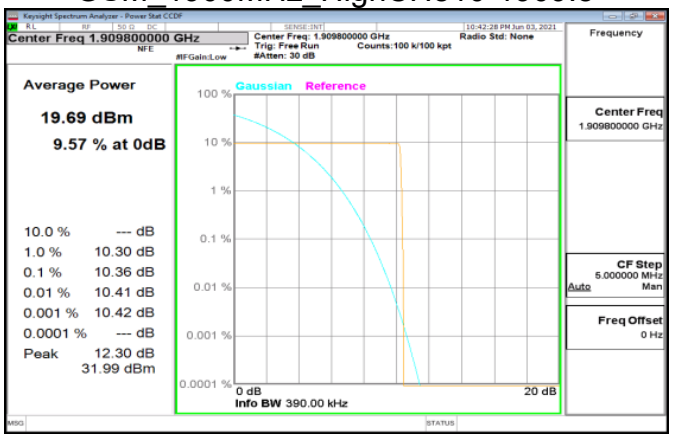
GSM_1900MHz_MidCH661-1880



EDGE_850MHz__HighCH251-848.8



GSM_1900MHz_HighCH810-1909.8



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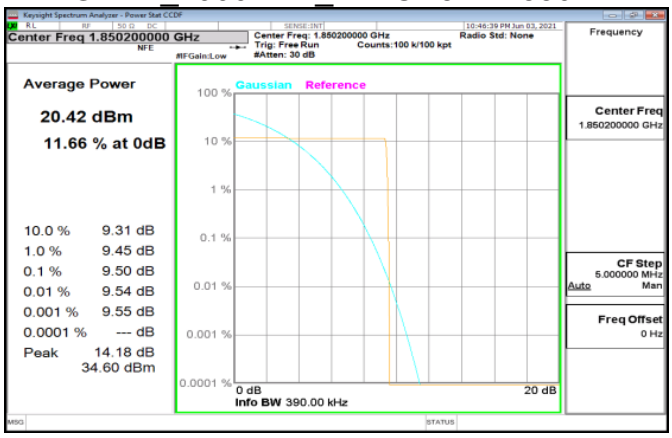
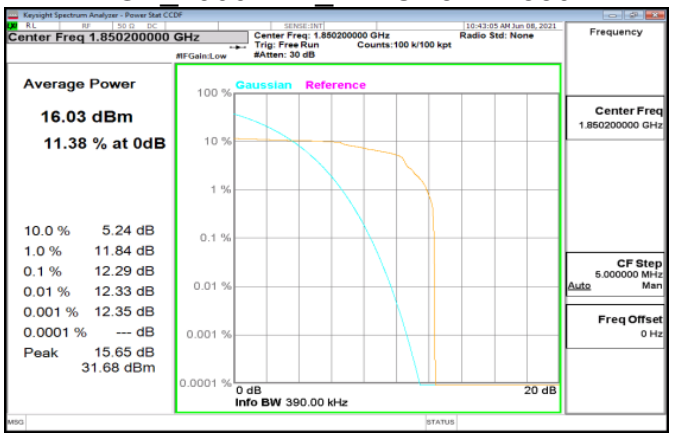
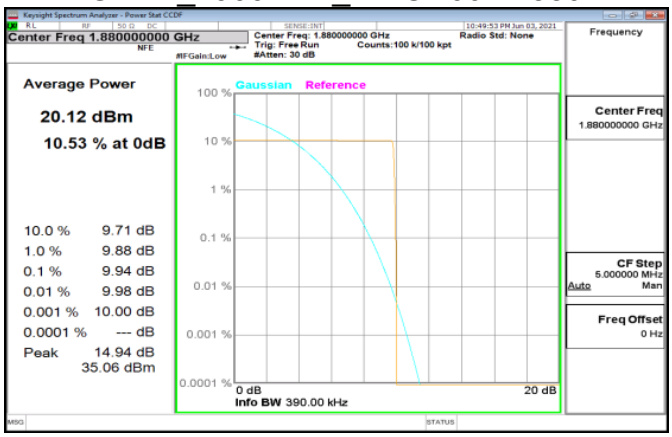
GPRS_1900MHz_LowCH512-1850.2



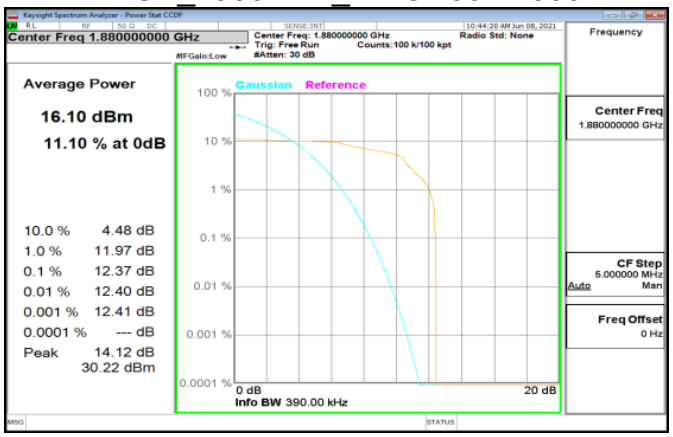
EDGE_1900MHz_LowCH512-1850.2



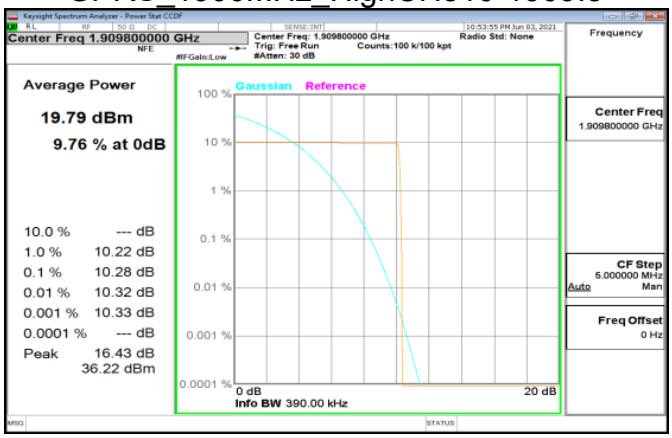
GPRS_1900MHz_MidCH661-1880



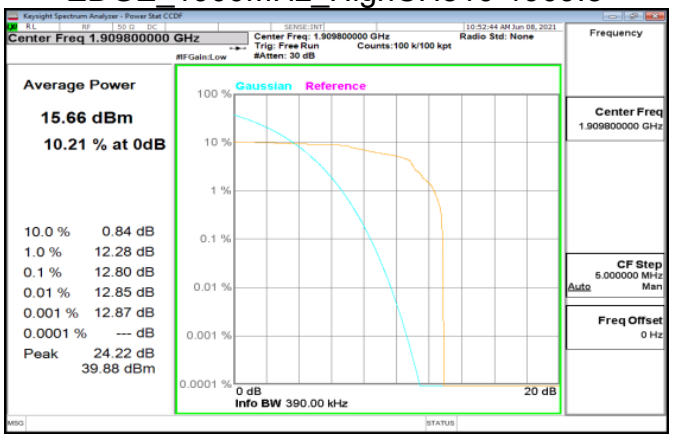
EDGE_1900MHz_MidCH661-1880



GPRS_1900MHz_HighCH810-1909.8



EDGE_1900MHz_HighCH810-1909.8



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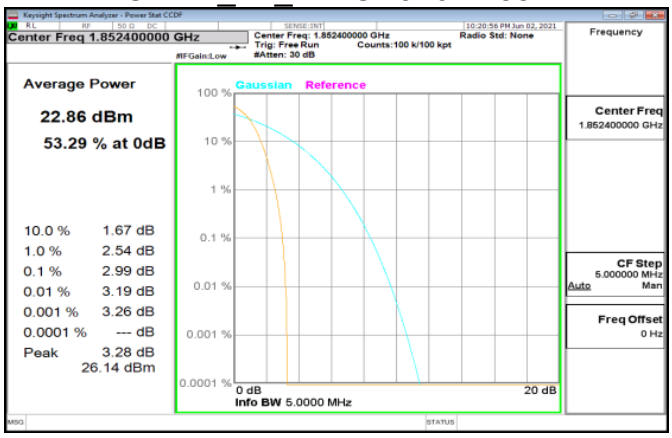
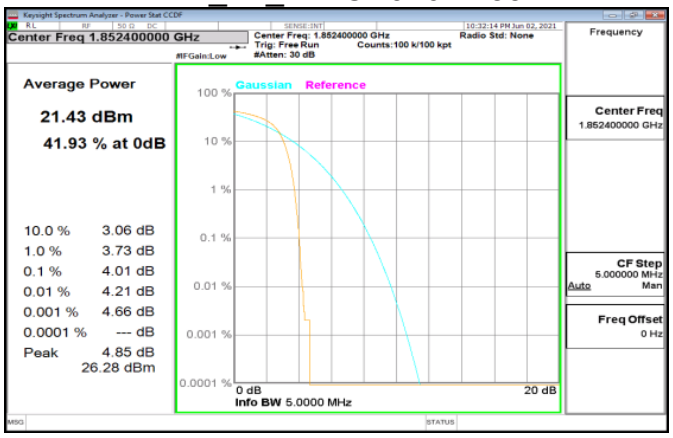
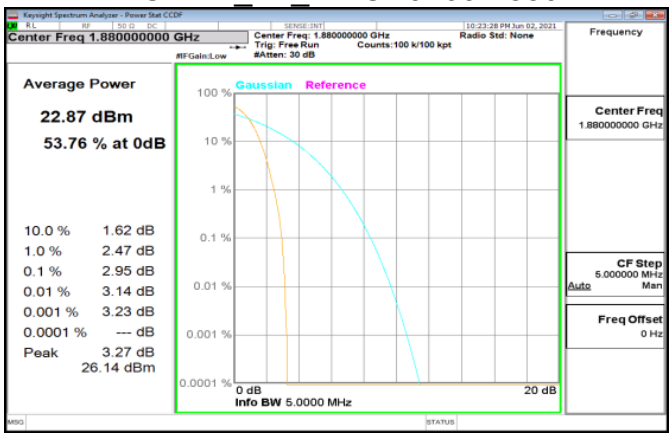
WCDMA_B2_LowCH9262-1852.4



HSDPA_B2_LowCH9262-1852.4



WCDMA_B2_MidCH9400-1880



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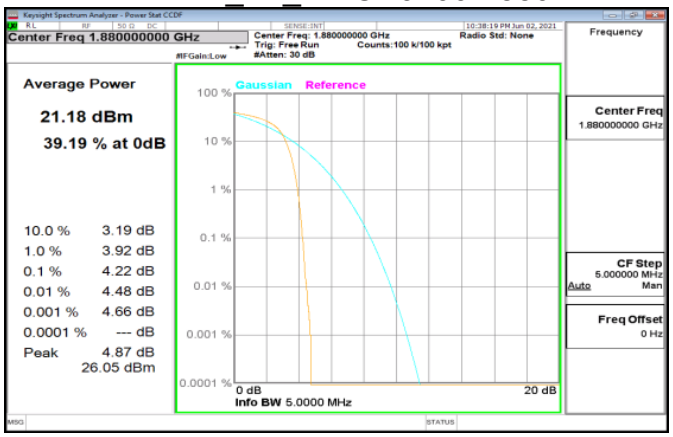
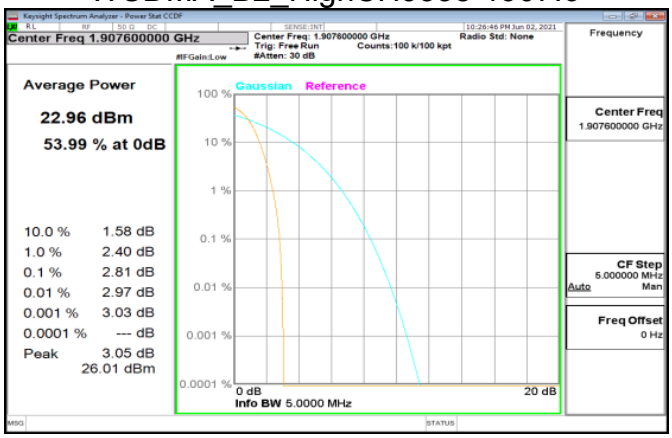
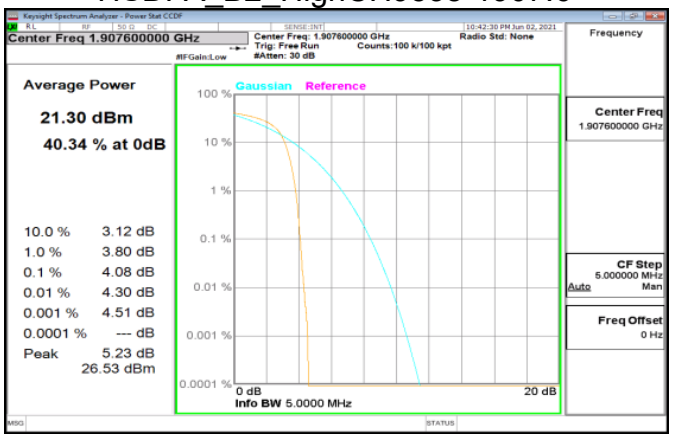


WCDMA_B2_HighCH9538-1907.6



HSDPA_B2_HighCH9538-1907.6



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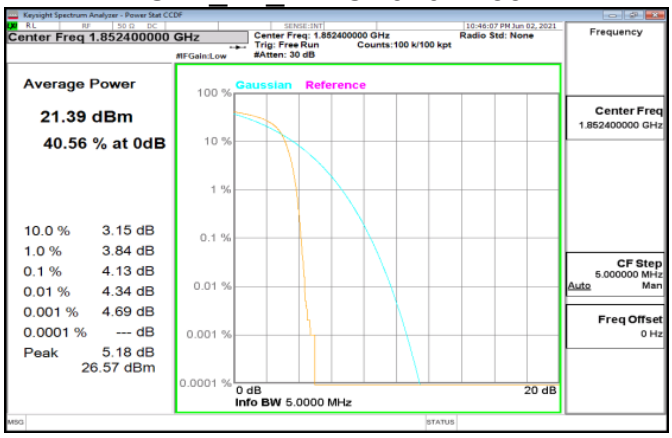
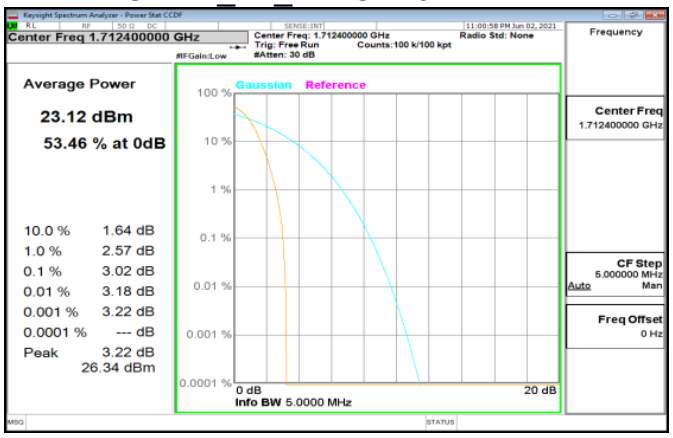
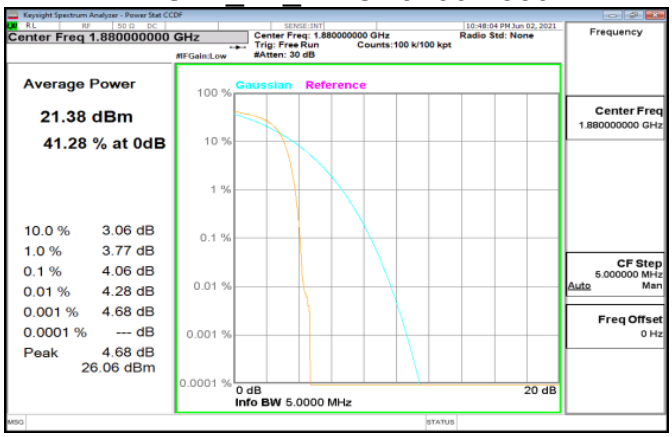
HSUPA_B2_LowCH9262-1852.4



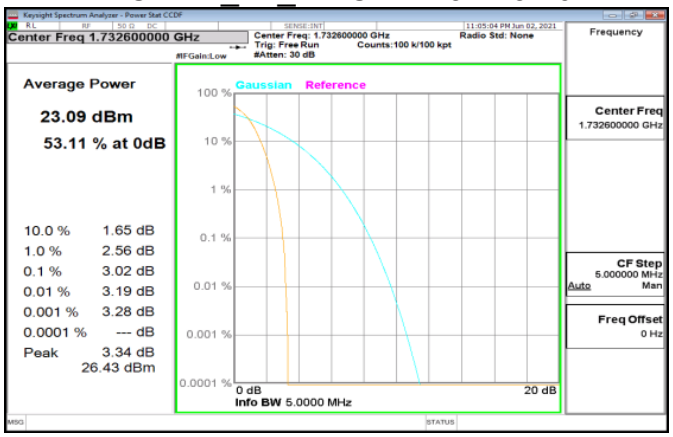
WCDMA_B4_LowCH1312-1712.4



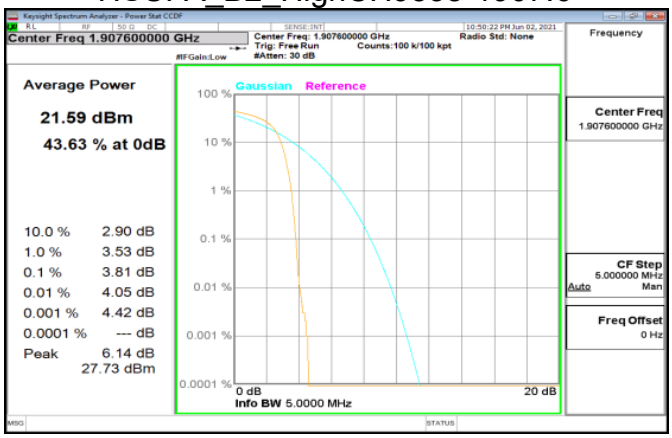
HSUPA_B2_MidCH9400-1880



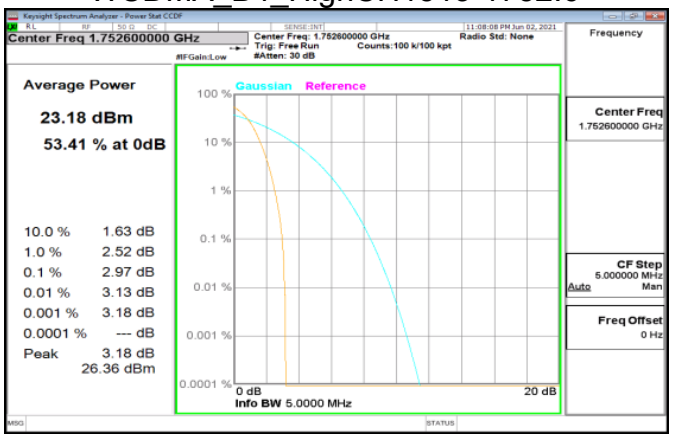
WCDMA_B4_MidCH1413-1732.6



HSUPA_B2_HighCH9538-1907.6



WCDMA_B4_HighCH1513-1752.6



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