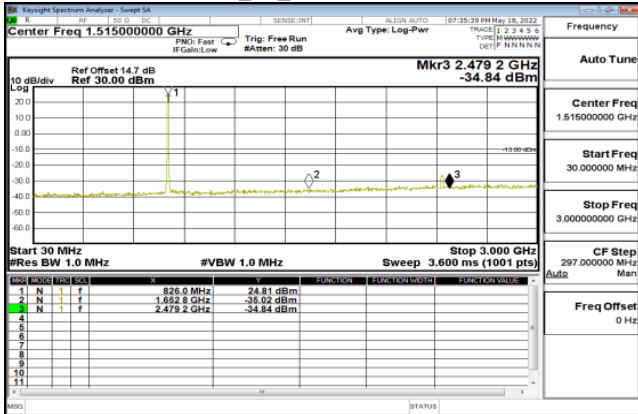
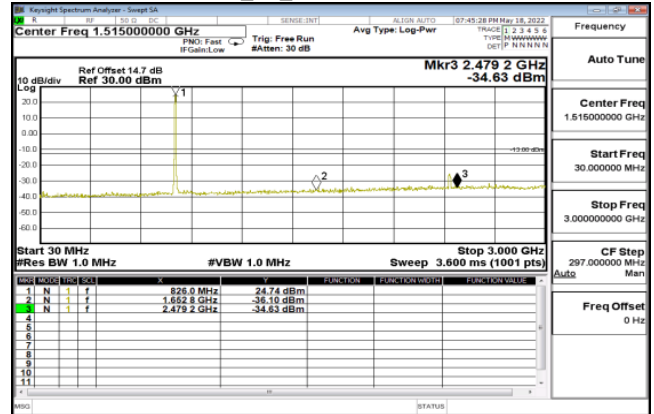


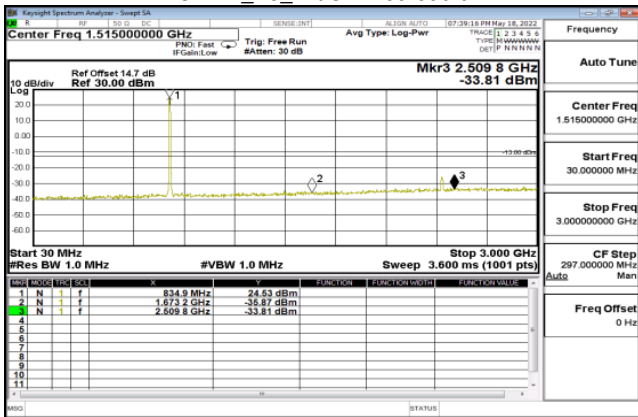
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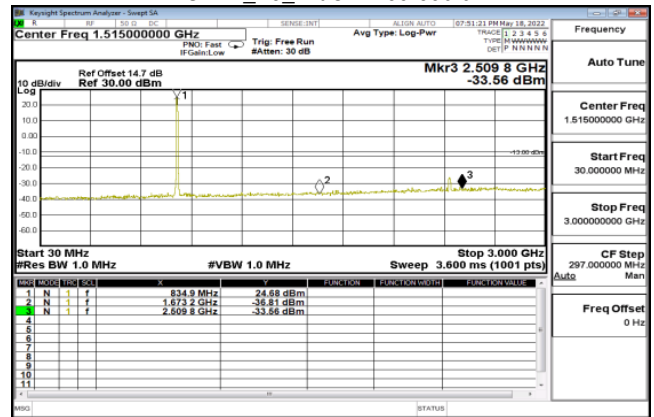
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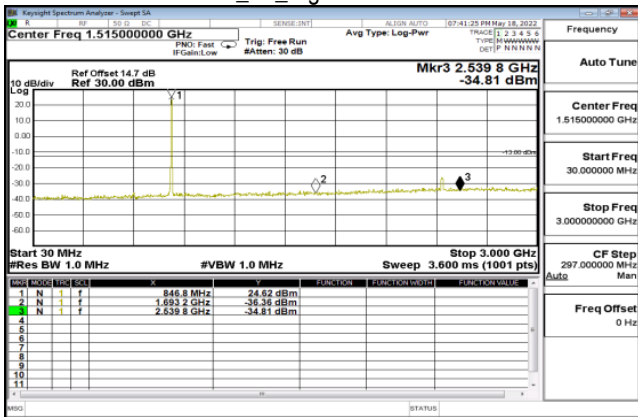
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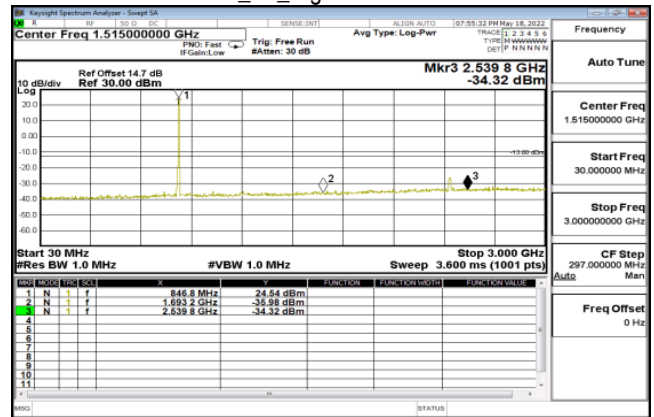
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HSDPA_B5_HighCH4233-846.6

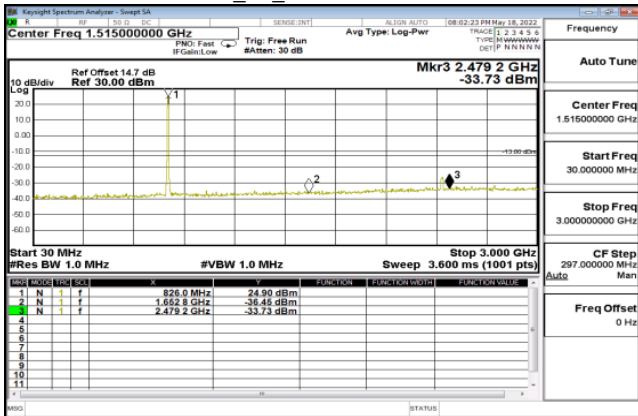


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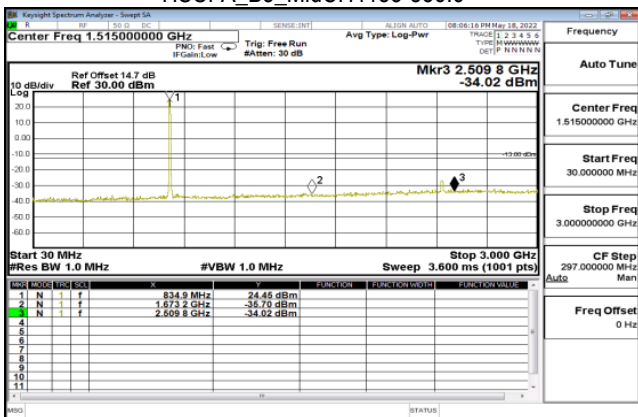
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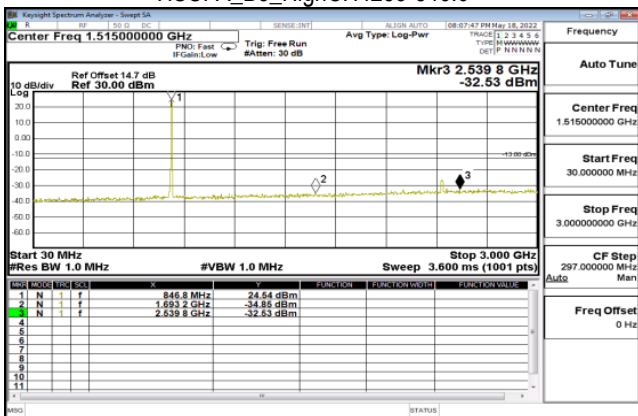
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HSUPA_B5_MidCH4183-836.6



HSUPA_B5_HighCH4233-846.6

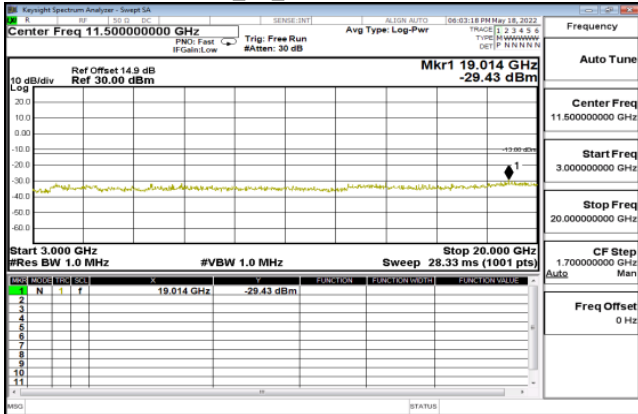


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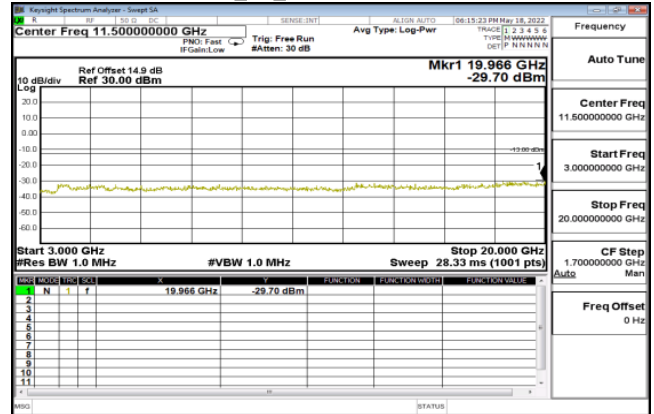
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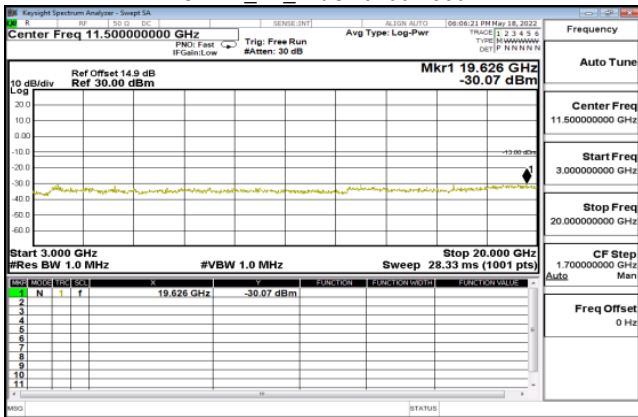
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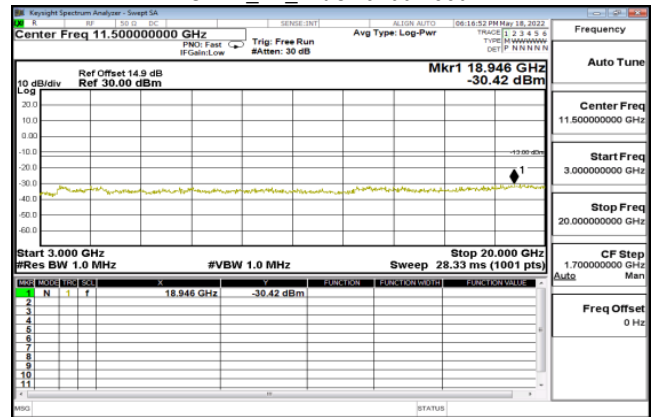
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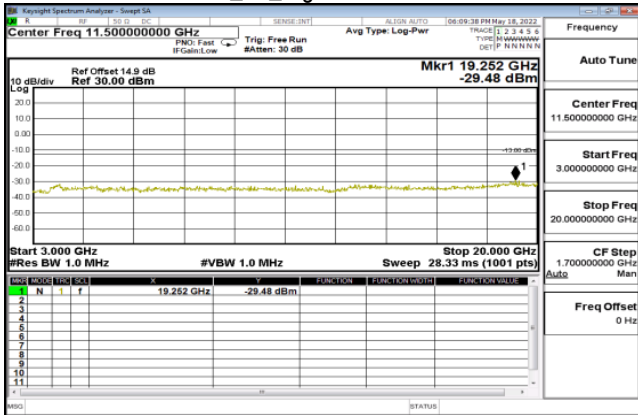
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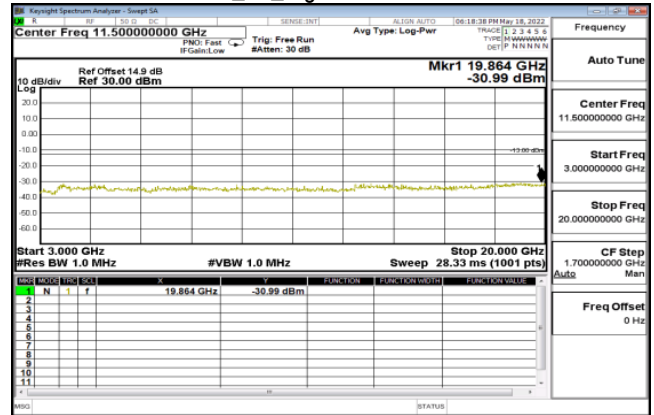
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WCDMA_B2_HighCH9538-1907.6



HSDPA_B2_HighCH9538-1907.6

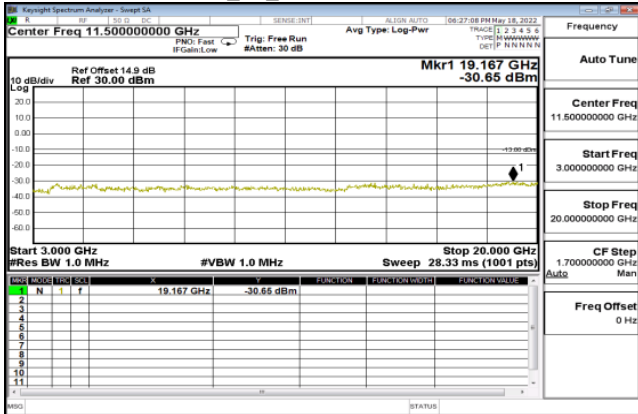


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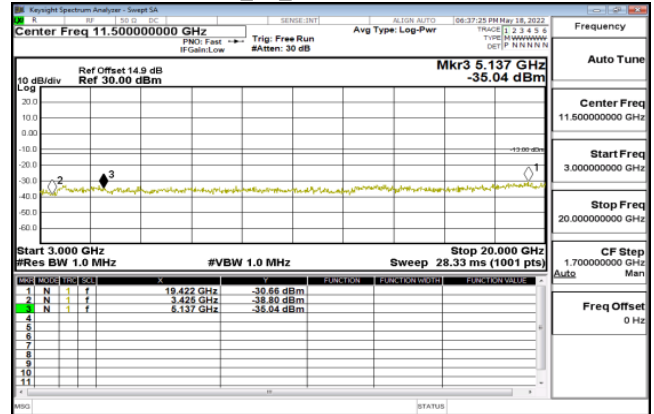
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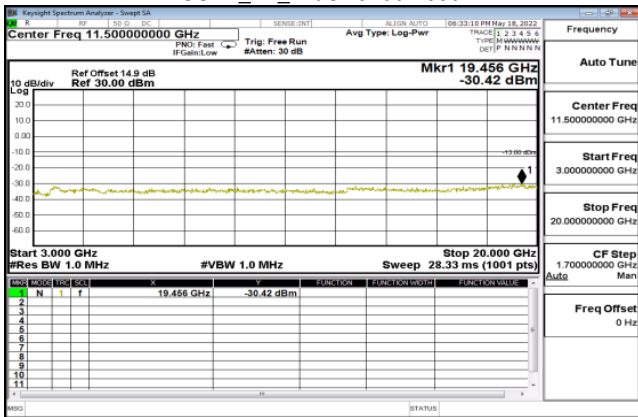
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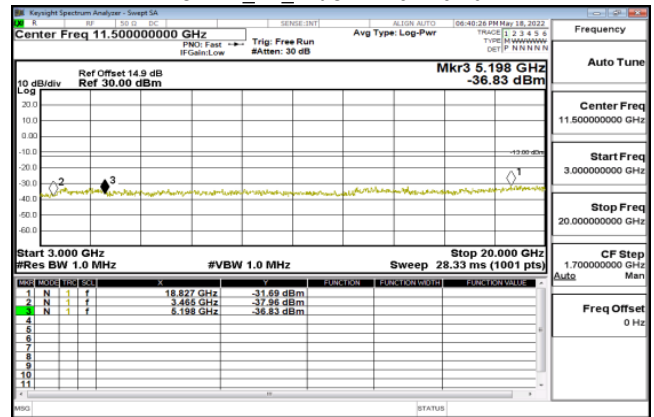
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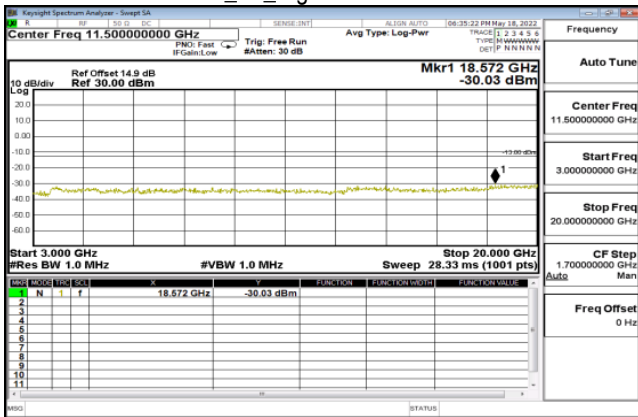
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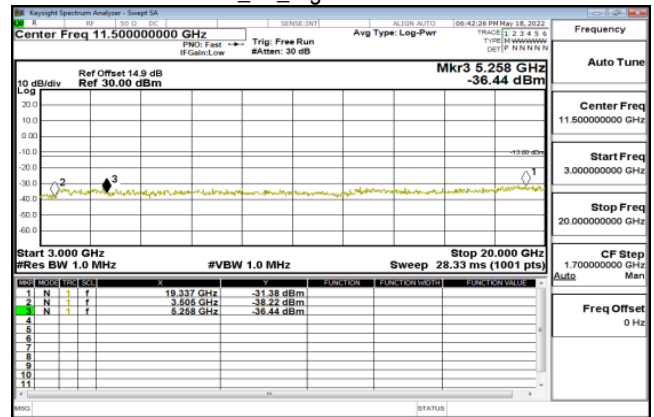
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HSUPA_B2_HighCH9538-1907.6



WCDMA_B4_HighCH1513-1752.6

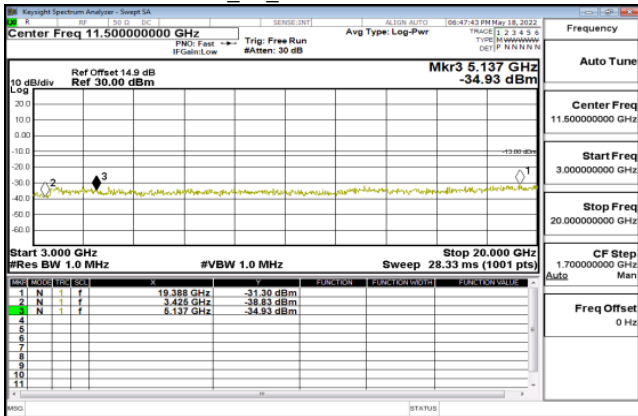


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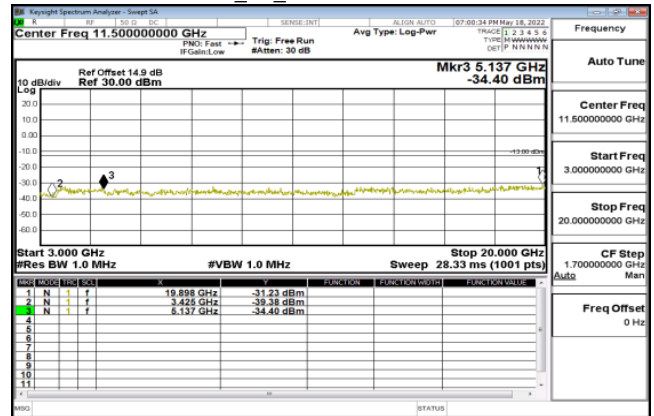
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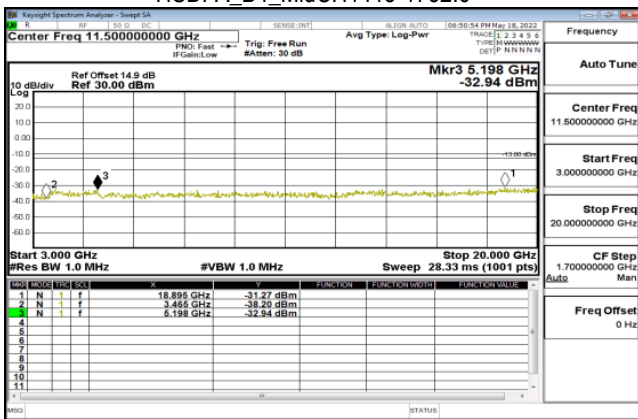
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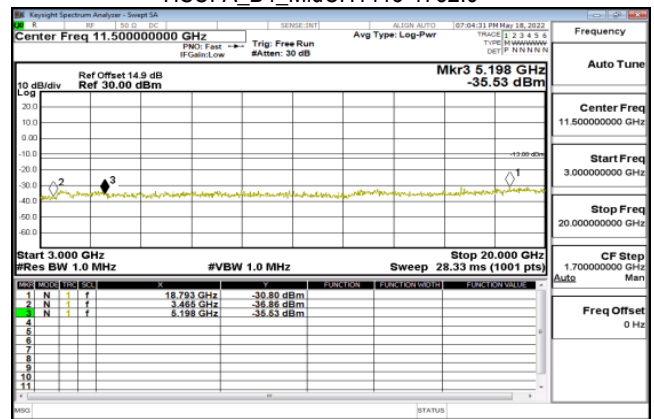
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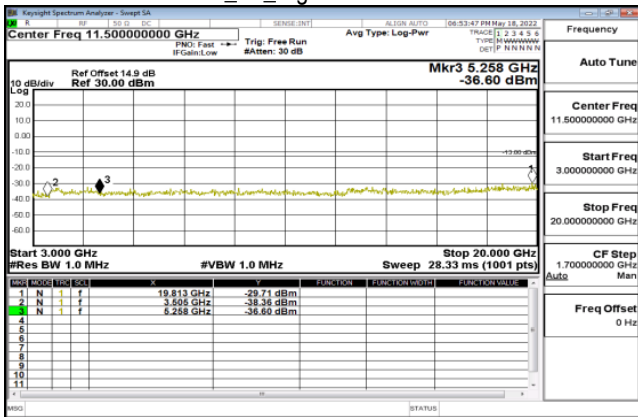
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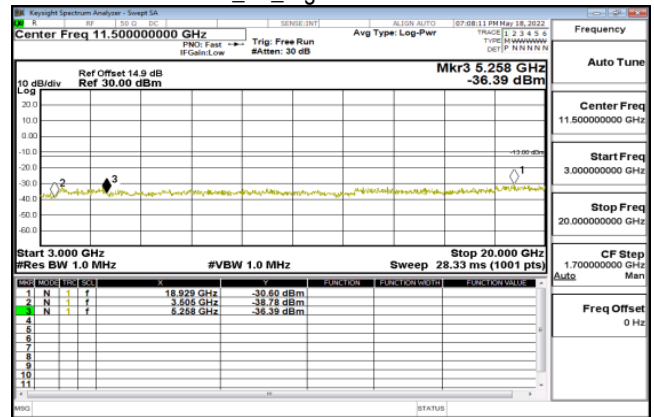
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HSUPA_B4_HighCH1513-1752.6

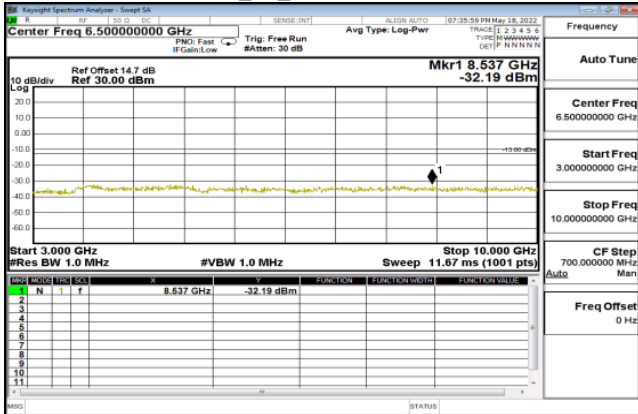


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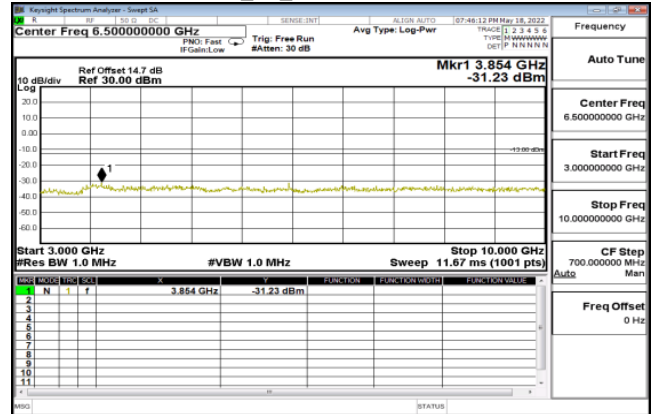
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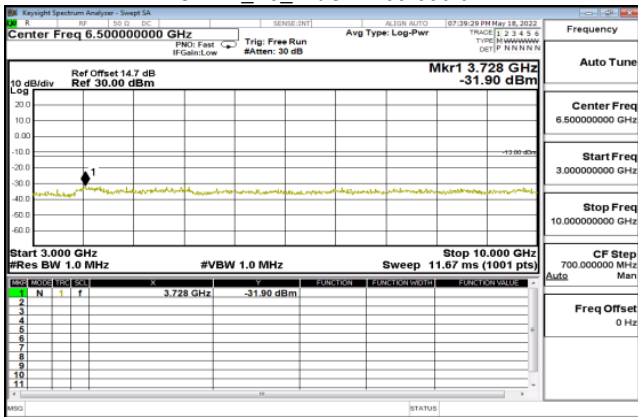
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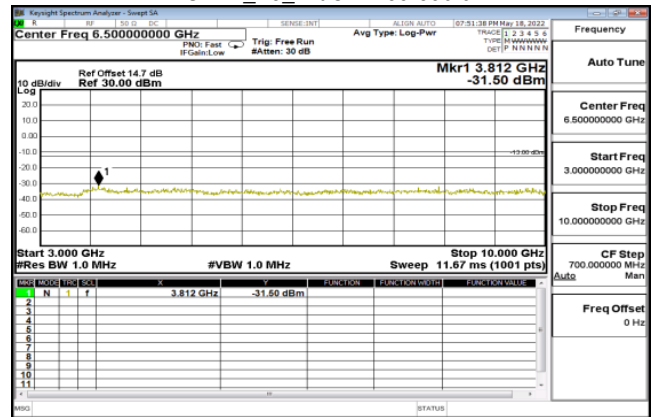
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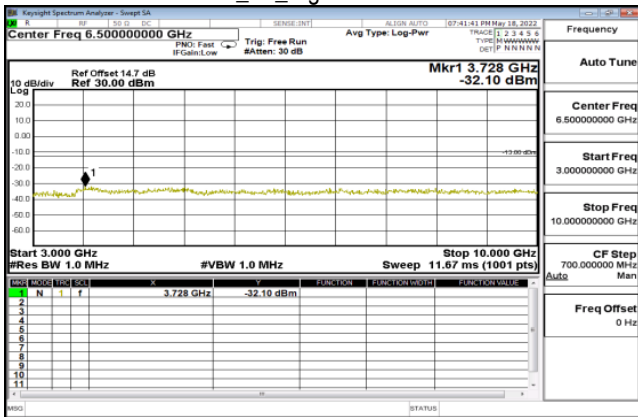
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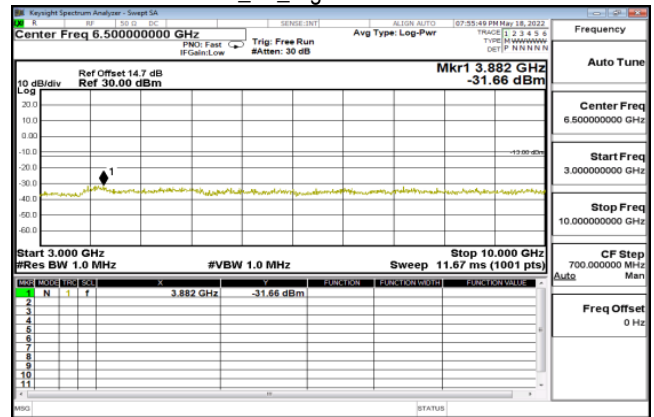
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WCDMA_B5_HighCH4233-846.6



HSDPA_B5_HighCH4233-846.6

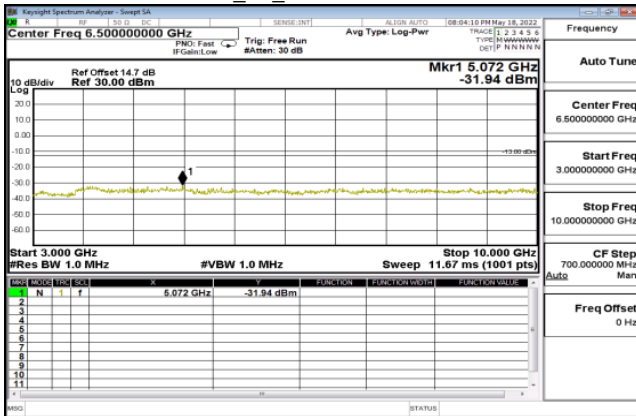


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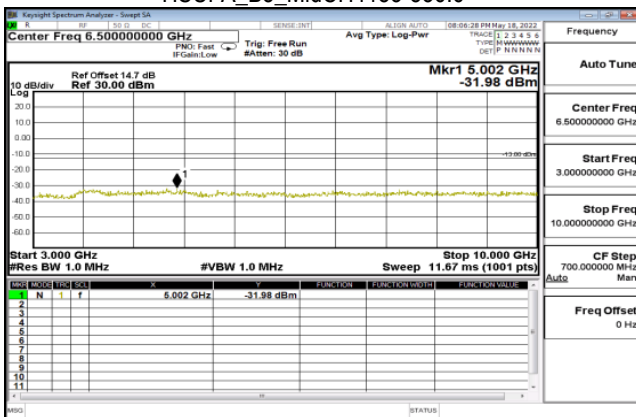
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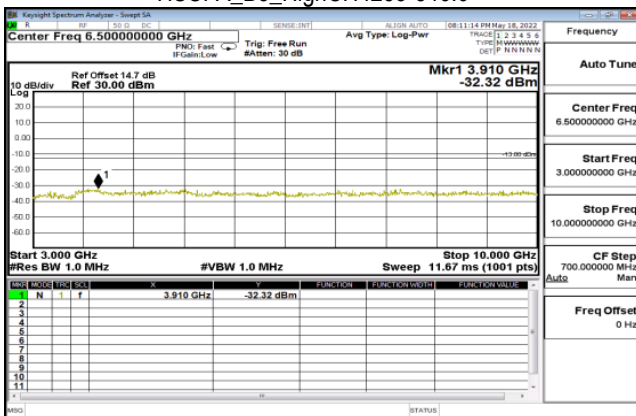
HSUPA_B5_LowCH4132-826.4



HSUPA_B5_MidCH4183-836.6



HSUPA_B5_HighCH4233-846.6



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11 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

11.1 Standard Applicable

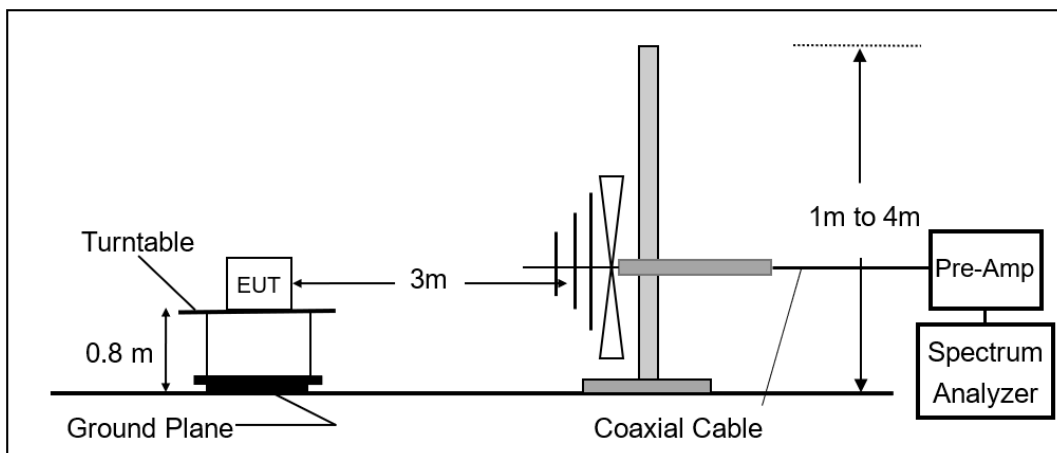
According to FCC §2.1053,

FCC §22.917(a), §24.238(a), §27.53(h)

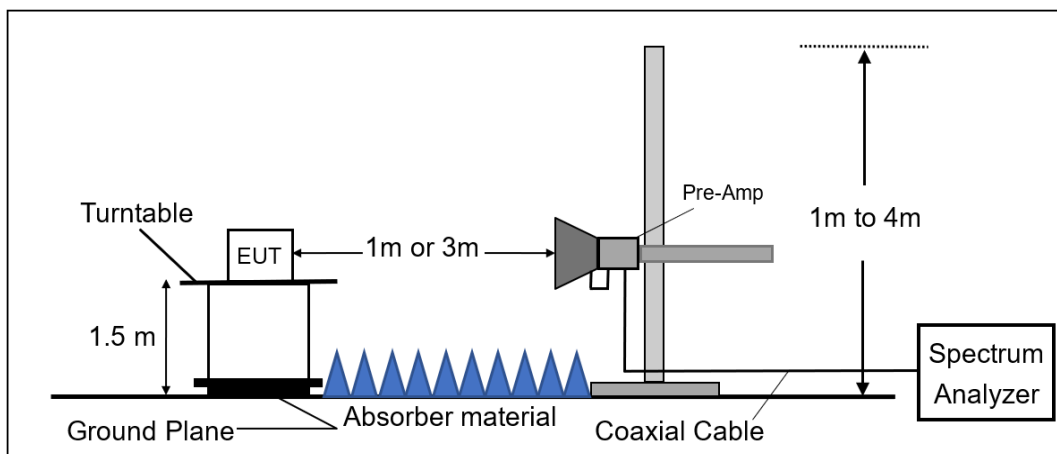
Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

11.2 EUT Setup

Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



Radiated Emission Test Set-Up, Frequency Above 1GHz.



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11.3 Measurement Procedure:

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

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

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

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

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

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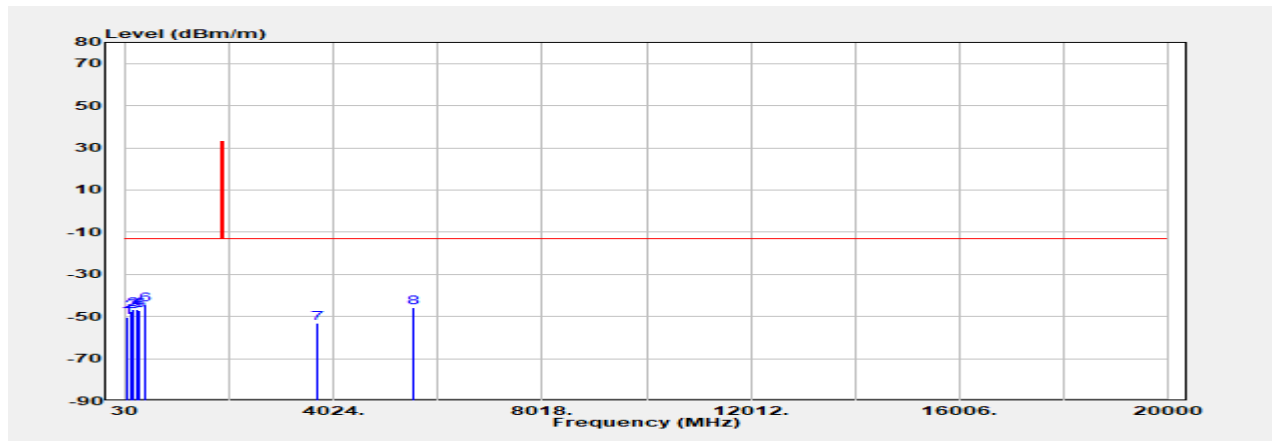
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11.4 Measurement Result:

Report Number :TERF2204000397E2
 Operation Mode :3G B2
 Test Mode :Tx CH LOW
 EUT Pol :E1 Plane
 Test Frequency :1852.4 MHz

Test Site :SAC G
 Test Date :2022-06-10
 Temp./Humi. :21.7/70
 Antenna Pol. :Vertical
 Engineer :Quentin Liu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
60.070	-50.20	-38.09	-9.56	-2.55	-13.00	-37.20
145.430	-47.76	-43.16	-1.80	-2.80	-13.00	-34.76
179.380	-46.87	-45.26	1.28	-2.89	-13.00	-33.87
241.460	-46.55	-47.87	4.35	-3.03	-13.00	-33.55
287.050	-47.02	-47.98	4.04	-3.08	-13.00	-34.02
412.180	-44.20	-45.61	4.38	-2.97	-13.00	-31.20
3704.800	-52.99	-55.69	12.19	-9.49	-13.00	-39.99
5557.200	-45.78	-47.43	13.30	-11.65	-13.00	-32.78

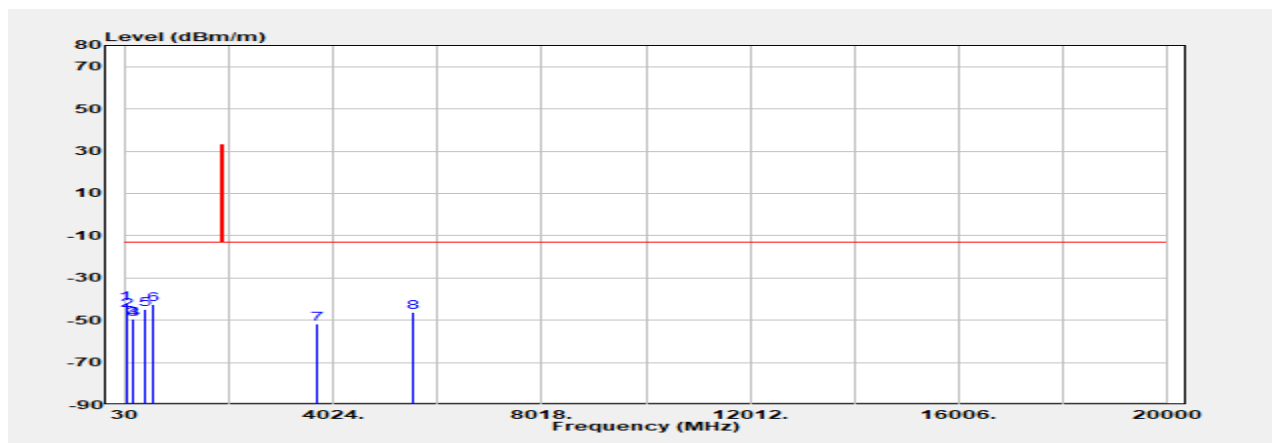
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 Test Mode :Tx CH LOW
 EUT Pol :E1 Plane
 Test Frequency :1852.4 MHz

Test Site :SAC G
 Test Date :2022-06-10
 Temp./Humi. :21.7/70
 Antenna Pol. :Horizontal
 Engineer :Quentin Liu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
33.880	-42.01	-25.58	-14.03	-2.40	-13.00	-29.01
49.400	-45.43	-31.01	-11.95	-2.47	-13.00	-32.43
151.250	-49.67	-45.27	-1.57	-2.83	-13.00	-36.67
181.320	-49.49	-48.28	1.69	-2.90	-13.00	-36.49
388.900	-44.99	-46.54	4.38	-2.83	-13.00	-31.99
540.220	-42.33	-43.99	4.40	-2.74	-13.00	-29.33
3704.800	-51.65	-54.35	12.19	-9.49	-13.00	-38.65
5557.200	-46.39	-48.04	13.30	-11.65	-13.00	-33.39

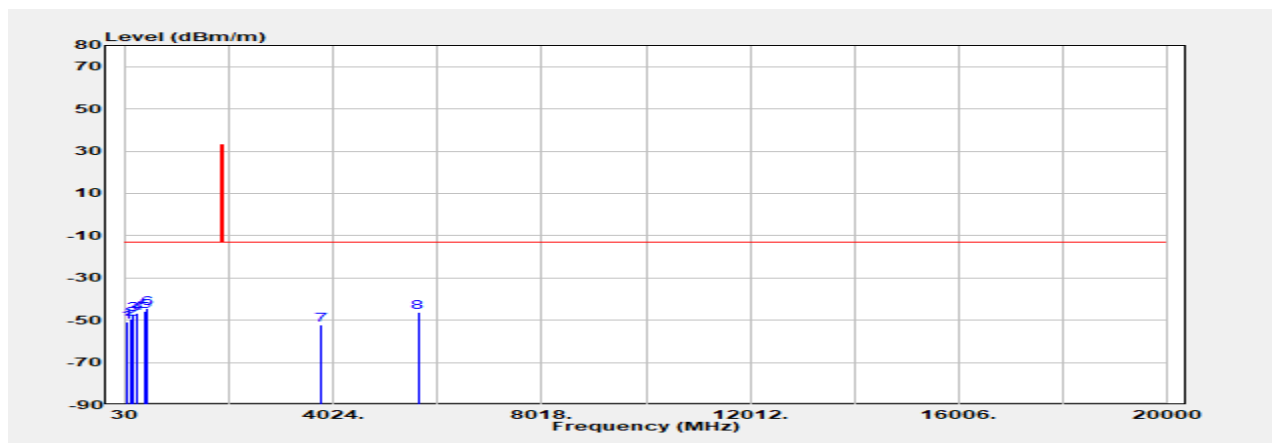
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Report Number :TERF2204000397E2
 Operation Mode :3G B2
 Test Mode :Tx CH MID
 EUT Pol :E1 Plane
 Test Frequency :1880 MHz

Test Site :SAC G
 Test Date :2022-06-10
 Temp./Humi. :21.7/70
 Antenna Pol. :Vertical
 Engineer :Quentin Liu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
53.280	-50.62	-37.00	-11.12	-2.50	-13.00	-37.62
139.610	-49.56	-44.76	-2.04	-2.76	-13.00	-36.56
170.650	-47.02	-43.97	-0.23	-2.82	-13.00	-34.02
259.890	-46.58	-47.87	4.36	-3.07	-13.00	-33.58
381.140	-45.79	-47.33	4.36	-2.82	-13.00	-32.79
445.160	-44.19	-45.64	4.13	-2.68	-13.00	-31.19
3760.000	-52.33	-55.00	12.10	-9.43	-13.00	-39.33
5640.000	-46.04	-47.82	13.46	-11.68	-13.00	-33.04

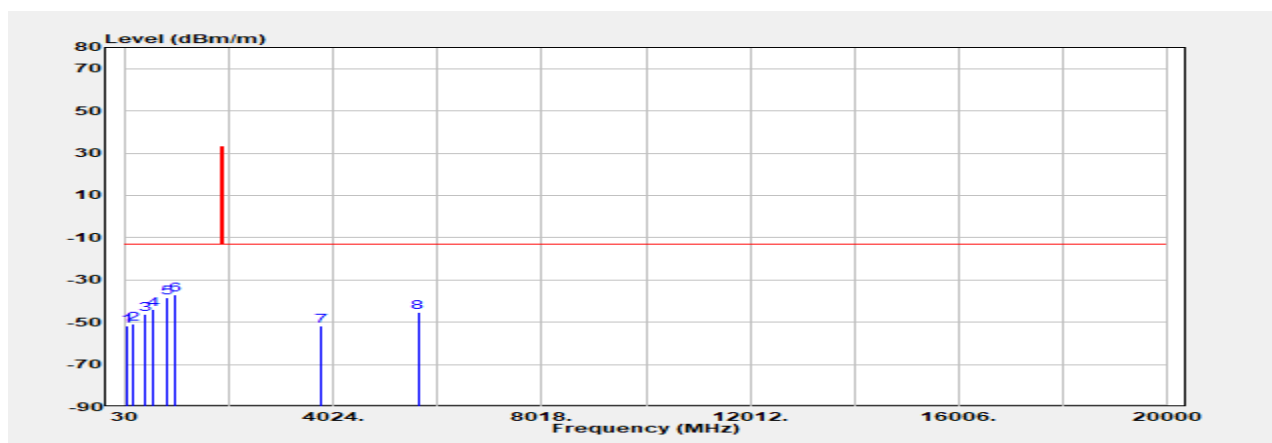
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Report Number :TERF2204000397E2
 Operation Mode :3G B2
 Test Mode :Tx CH MID
 EUT Pol :E1 Plane
 Test Frequency :1880 MHz

Test Site :SAC G
 Test Date :2022-06-09
 Temp./Humi. :21.7/70
 Antenna Pol. :Horizontal
 Engineer :Quentin Liu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
65.890	-51.63	-41.22	-7.81	-2.60	-13.00	-38.63
179.380	-50.97	-49.36	1.28	-2.89	-13.00	-37.97
383.080	-46.29	-47.84	4.37	-2.82	-13.00	-33.29
551.860	-43.89	-45.01	4.20	-3.08	-13.00	-30.89
812.790	-38.58	-39.15	4.31	-3.74	-13.00	-25.58
961.200	-37.10	-36.32	3.72	-4.50	-13.00	-24.10
3760.000	-51.57	-54.24	12.10	-9.43	-13.00	-38.57
5640.000	-45.48	-47.26	13.46	-11.68	-13.00	-32.48

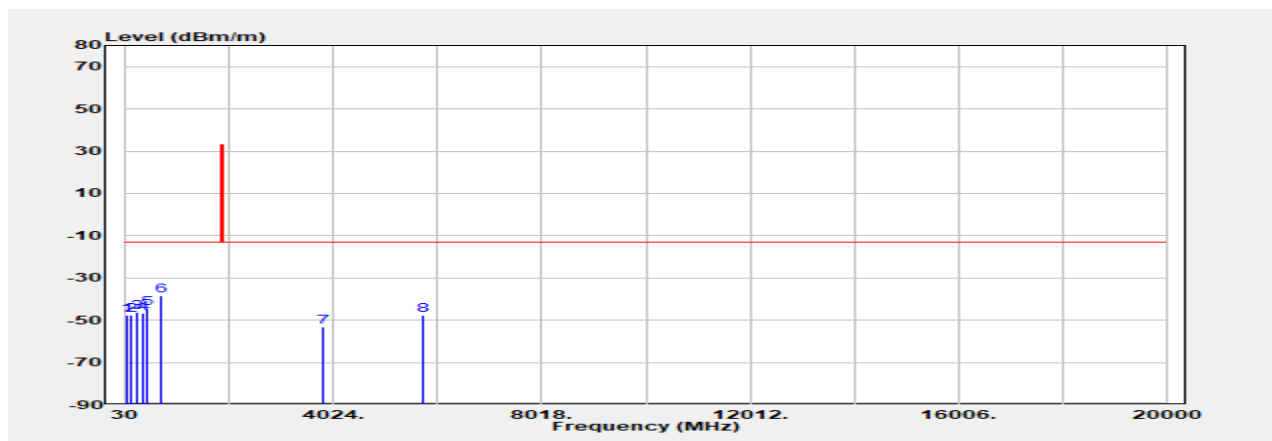
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Report Number :TERF2204000397E2
 Operation Mode :3G B2
 Test Mode :Tx CH HIGH
 EUT Pol :E1 Plane
 Test Frequency :1907.6 MHz

Test Site :SAC G
 Test Date :2022-06-10
 Temp./Humi. :21.7/70
 Antenna Pol. :Vertical
 Engineer :Quentin Liu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
58.130	-47.80	-35.34	-9.92	-2.54	-13.00	-34.80
147.370	-47.57	-42.89	-1.87	-2.81	-13.00	-34.57
248.250	-46.16	-47.39	4.33	-3.10	-13.00	-33.16
347.190	-46.62	-47.81	4.47	-3.28	-13.00	-33.62
450.980	-44.43	-45.92	4.12	-2.63	-13.00	-31.43
695.420	-38.46	-38.95	3.69	-3.20	-13.00	-25.46
3815.200	-53.32	-55.83	12.10	-9.59	-13.00	-40.32
5722.800	-47.71	-49.32	13.35	-11.74	-13.00	-34.71

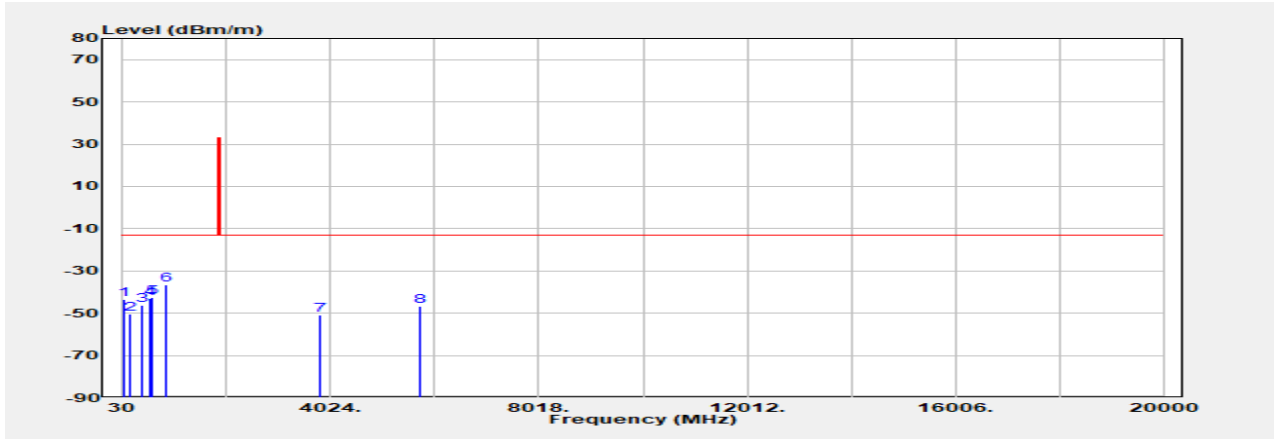
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Report Number :TERF2204000397E2
 Operation Mode :3G B2
 Test Mode :Tx CH HIGH
 EUT Pol :E1 Plane
 Test Frequency :1907.6 MHz

Test Site :SAC G
 Test Date :2022-06-10
 Temp./Humi. :21.7/70
 Antenna Pol. :Horizontal
 Engineer :Quentin Liu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
43.580	-43.51	-28.04	-13.04	-2.43	-13.00	-30.51
154.160	-50.23	-46.00	-1.41	-2.82	-13.00	-37.23
382.110	-46.21	-47.75	4.36	-2.82	-13.00	-33.21
541.190	-42.93	-44.52	4.36	-2.77	-13.00	-29.93
597.450	-42.65	-43.43	3.69	-2.91	-13.00	-29.65
842.860	-36.73	-37.62	4.68	-3.79	-13.00	-23.73
3815.200	-50.80	-53.31	12.10	-9.59	-13.00	-37.80
5722.800	-46.85	-48.46	13.35	-11.74	-13.00	-33.85

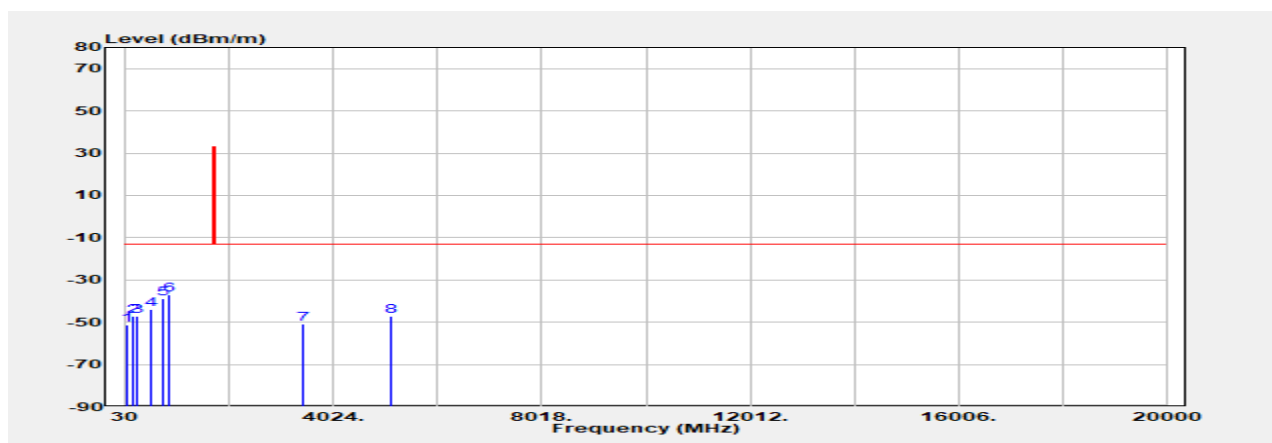
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Report Number :TERF2204000397E2
 Operation Mode :3G B4
 Test Mode :Tx CH LOW
 EUT Pol :E1 Plane
 Test Frequency :1712.4 MHz

Test Site :SAC G
 Test Date :2022-06-10
 Temp./Humi. :21.7/70
 Antenna Pol. :Vertical
 Engineer :Quentin Liu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
60.070	-51.29	-39.18	-9.56	-2.55	-13.00	-38.29
186.170	-47.30	-46.96	2.59	-2.93	-13.00	-34.30
257.950	-47.36	-48.61	4.33	-3.08	-13.00	-34.36
511.120	-43.97	-45.24	4.11	-2.84	-13.00	-30.97
727.430	-38.78	-38.05	3.15	-3.88	-13.00	-25.78
849.650	-36.98	-37.84	4.65	-3.79	-13.00	-23.98
3424.800	-50.68	-54.04	12.45	-9.09	-13.00	-37.68
5137.200	-47.26	-48.61	12.45	-11.10	-13.00	-34.26

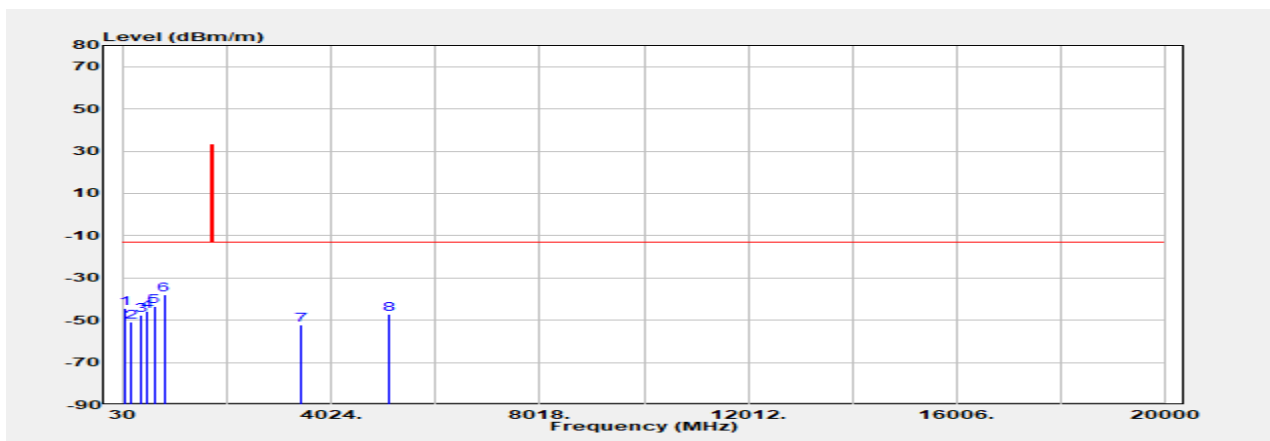
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Report Number :TERF2204000397E2
 Operation Mode :3G B4
 Test Mode :Tx CH LOW
 EUT Pol :E1 Plane
 Test Frequency :1712.4 MHz

Test Site :SAC G
 Test Date :2022-06-10
 Temp./Humi. :21.7/70
 Antenna Pol. :Horizontal
 Engineer :Quentin Liu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
37.760	-44.61	-28.53	-13.67	-2.41	-13.00	-31.61
154.160	-50.68	-46.45	-1.41	-2.82	-13.00	-37.68
361.740	-47.77	-49.09	4.46	-3.14	-13.00	-34.77
484.930	-45.94	-47.04	4.27	-3.17	-13.00	-32.94
610.060	-43.53	-44.20	3.47	-2.80	-13.00	-30.53
803.090	-37.98	-38.48	4.12	-3.62	-13.00	-24.98
3424.800	-52.42	-55.78	12.45	-9.09	-13.00	-39.42
5137.200	-47.15	-48.50	12.45	-11.10	-13.00	-34.15

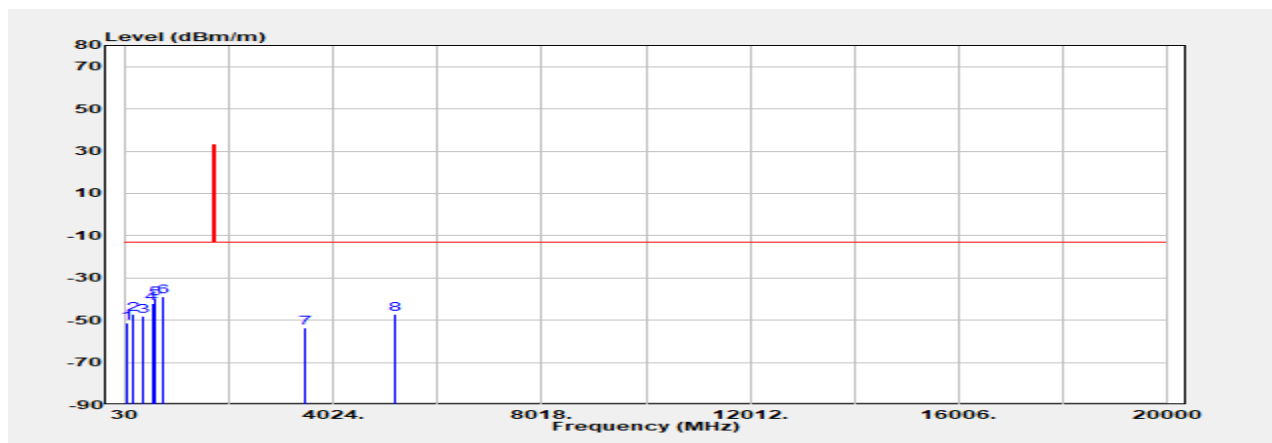
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Report Number :TERF2204000397E2
 Operation Mode :3G B4
 Test Mode :Tx CH MID
 EUT Pol :E1 Plane
 Test Frequency :1732.6 MHz

Test Site :SAC G
 Test Date :2022-06-10
 Temp./Humi. :21.7/70
 Antenna Pol. :Vertical
 Engineer :Quentin Liu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
60.070	-51.29	-39.18	-9.56	-2.55	-13.00	-38.29
186.170	-47.30	-46.96	2.59	-2.93	-13.00	-34.30
348.160	-47.94	-49.17	4.50	-3.27	-13.00	-34.94
533.430	-42.21	-43.73	4.20	-2.68	-13.00	-29.21
603.270	-39.99	-40.78	3.61	-2.82	-13.00	-26.99
727.430	-38.78	-38.05	3.15	-3.88	-13.00	-25.78
3465.200	-53.72	-56.89	12.34	-9.17	-13.00	-40.72
5197.800	-47.06	-48.77	12.88	-11.17	-13.00	-34.06

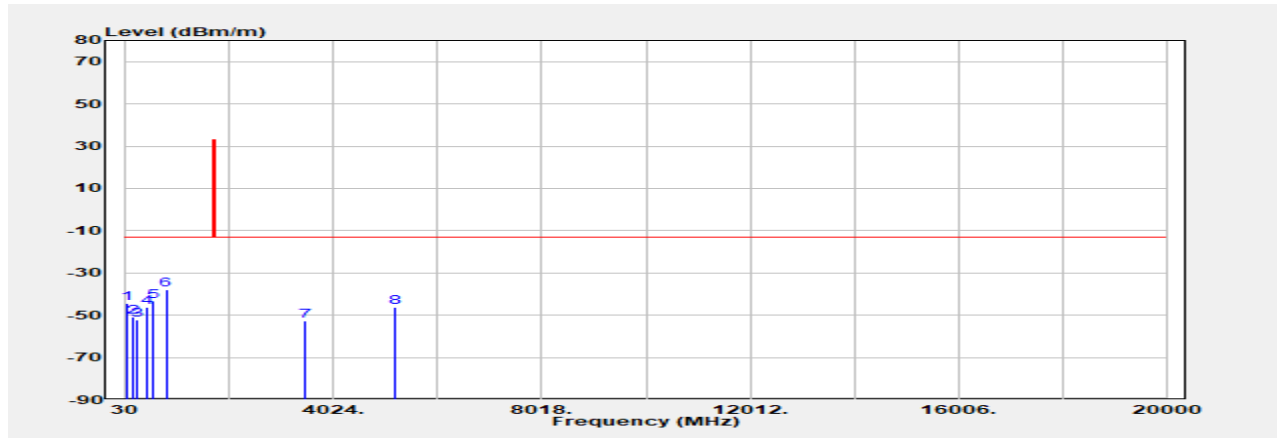
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Report Number :TERF2204000397E2
 Operation Mode :3G B4
 Test Mode :Tx CH MID
 EUT Pol :E1 Plane
 Test Frequency :1732.6 MHz

Test Site :SAC G
 Test Date :2022-06-10
 Temp./Humi. :21.7/70
 Antenna Pol. :Horizontal
 Engineer :Quentin Liu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
35.820	-44.38	-28.28	-13.69	-2.41	-13.00	-31.38
154.160	-50.68	-46.45	-1.41	-2.82	-13.00	-37.68
244.370	-52.26	-53.54	4.34	-3.06	-13.00	-39.26
437.400	-46.19	-47.40	3.98	-2.77	-13.00	-33.19
551.860	-43.68	-44.80	4.20	-3.08	-13.00	-30.68
803.090	-37.98	-38.48	4.12	-3.62	-13.00	-24.98
3465.200	-52.81	-55.98	12.34	-9.17	-13.00	-39.81
5197.800	-46.32	-48.03	12.88	-11.17	-13.00	-33.32

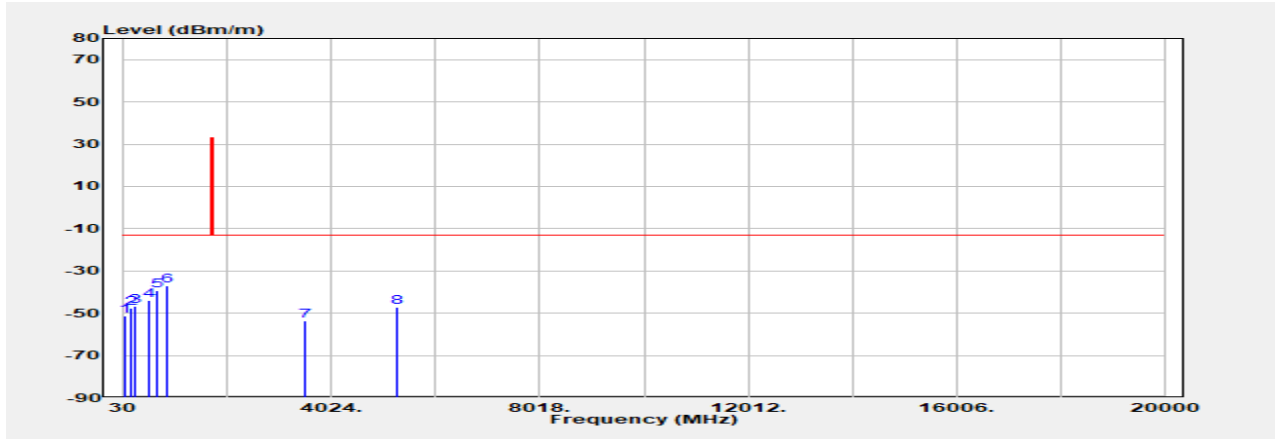
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Report Number :TERF2204000397E2
 Operation Mode :3G B4
 Test Mode :Tx CH HIGH
 EUT Pol :E1 Plane
 Test Frequency :1752.6 MHz

Test Site :SAC G
 Test Date :2022-06-10
 Temp./Humi. :21.7/70
 Antenna Pol. :Vertical
 Engineer :Quentin Liu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
60.070	-51.29	-39.18	-9.56	-2.55	-13.00	-38.29
161.920	-47.40	-43.55	-1.05	-2.80	-13.00	-34.40
251.160	-46.75	-47.95	4.31	-3.11	-13.00	-33.75
511.120	-43.97	-45.24	4.11	-2.84	-13.00	-30.97
679.900	-39.39	-39.78	3.81	-3.42	-13.00	-26.39
849.650	-36.98	-37.84	4.65	-3.79	-13.00	-23.98
3505.200	-53.58	-56.66	12.18	-9.10	-13.00	-40.58
5257.800	-47.09	-49.17	13.30	-11.22	-13.00	-34.09

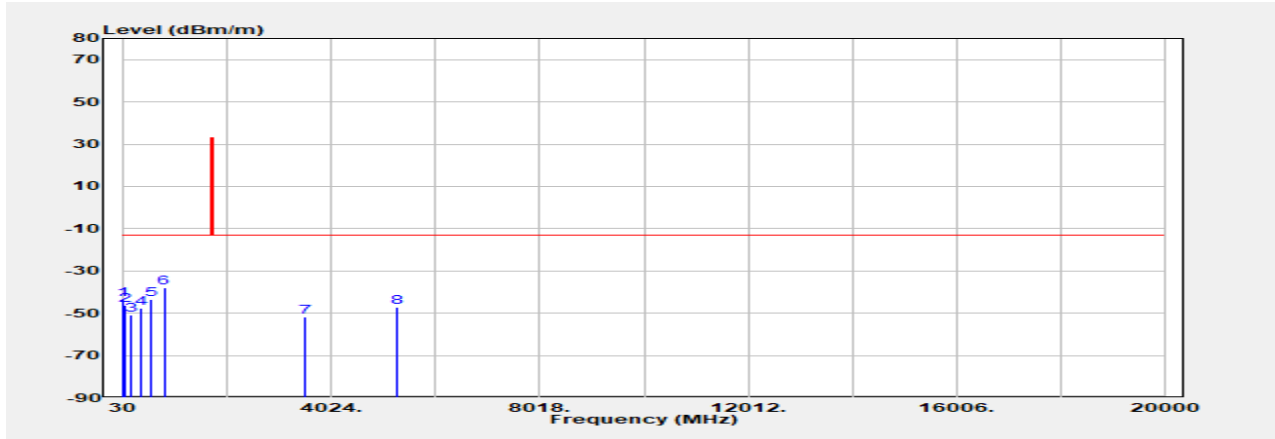
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Report Number :TERF2204000397E2
 Operation Mode :3G B4
 Test Mode :Tx CH HIGH
 EUT Pol :E1 Plane
 Test Frequency :1752.6 MHz

Test Site :SAC G
 Test Date :2022-06-10
 Temp./Humi. :21.7/70
 Antenna Pol. :Horizontal
 Engineer :Quentin Liu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.940	-43.54	-26.70	-14.44	-2.40	-13.00	-30.54
50.370	-46.09	-31.80	-11.82	-2.47	-13.00	-33.09
154.160	-50.68	-46.45	-1.41	-2.82	-13.00	-37.68
358.830	-47.79	-49.12	4.48	-3.15	-13.00	-34.79
551.860	-43.68	-44.80	4.20	-3.08	-13.00	-30.68
803.090	-37.98	-38.48	4.12	-3.62	-13.00	-24.98
3505.200	-51.73	-54.81	12.18	-9.10	-13.00	-38.73
5257.800	-47.34	-49.42	13.30	-11.22	-13.00	-34.34

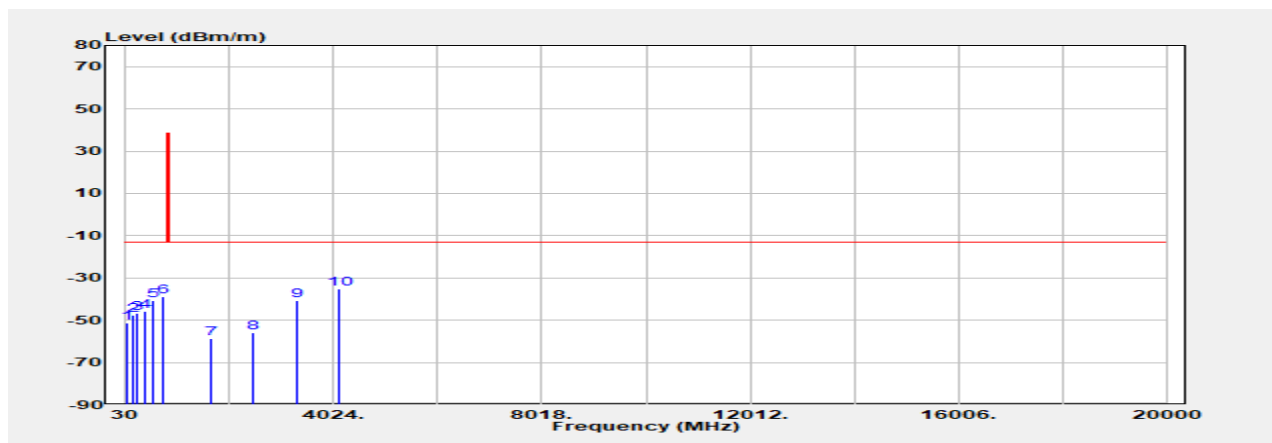
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Report Number :TERF2204000397E2
 Operation Mode :3G B5
 Test Mode :Tx CH LOW
 EUT Pol :E1 Plane
 Test Frequency :826.4 MHz

Test Site :SAC G
 Test Date :2022-06-10
 Temp./Humi. :21.7/70
 Antenna Pol. :Vertical
 Engineer :Quentin Liu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
60.070	-51.29	-39.18	-9.56	-2.55	-13.00	-38.29
161.920	-47.40	-43.55	-1.05	-2.80	-13.00	-34.40
251.160	-46.75	-47.95	4.31	-3.11	-13.00	-33.75
396.660	-45.86	-47.17	4.29	-2.98	-13.00	-32.86
552.830	-40.64	-41.76	4.22	-3.10	-13.00	-27.64
727.430	-38.78	-38.05	3.15	-3.88	-13.00	-25.78
1652.800	-58.45	-61.62	9.40	-6.23	-13.00	-45.45
2479.200	-55.69	-58.45	10.38	-7.62	-13.00	-42.69
3305.600	-40.52	-44.08	12.22	-8.66	-13.00	-27.52
4132.000	-34.96	-37.48	12.56	-10.04	-13.00	-21.96

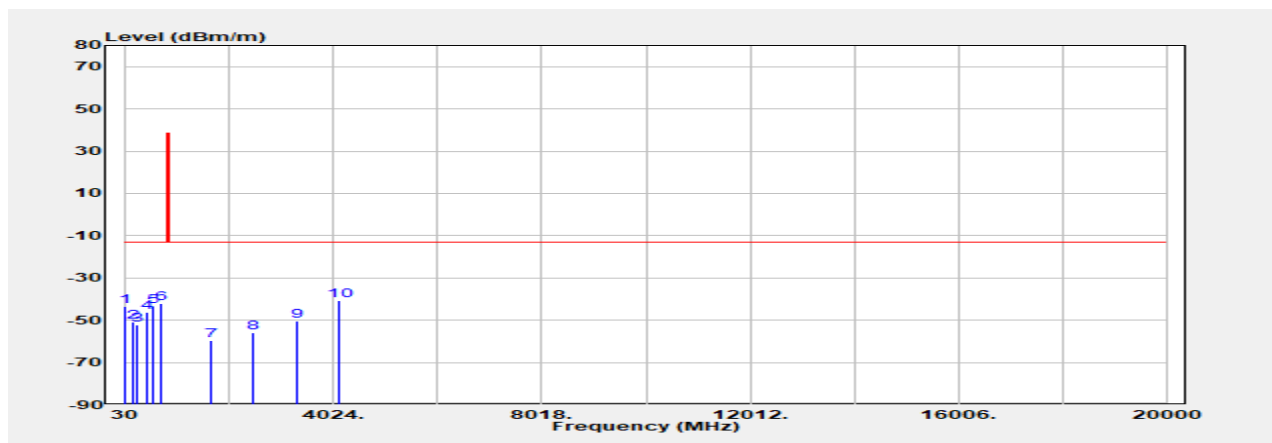
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Report Number :TERF2204000397E2
 Operation Mode :3G B5
 Test Mode :Tx CH LOW
 EUT Pol :E1 Plane
 Test Frequency :826.4 MHz

Test Site :SAC G
 Test Date :2022-06-10
 Temp./Humi. :21.7/70
 Antenna Pol. :Horizontal
 Engineer :Quentin Liu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.940	-43.54	-26.70	-14.44	-2.40	-13.00	-30.54
154.160	-50.68	-46.45	-1.41	-2.82	-13.00	-37.68
244.370	-52.26	-53.54	4.34	-3.06	-13.00	-39.26
437.400	-46.19	-47.40	3.98	-2.77	-13.00	-33.19
551.860	-43.68	-44.80	4.20	-3.08	-13.00	-30.68
706.090	-42.08	-42.22	3.49	-3.35	-13.00	-29.08
1652.800	-59.69	-62.86	9.40	-6.23	-13.00	-46.69
2479.200	-55.97	-58.73	10.38	-7.62	-13.00	-42.97
3305.600	-50.50	-54.06	12.22	-8.66	-13.00	-37.50
4132.000	-40.60	-43.12	12.56	-10.04	-13.00	-27.60

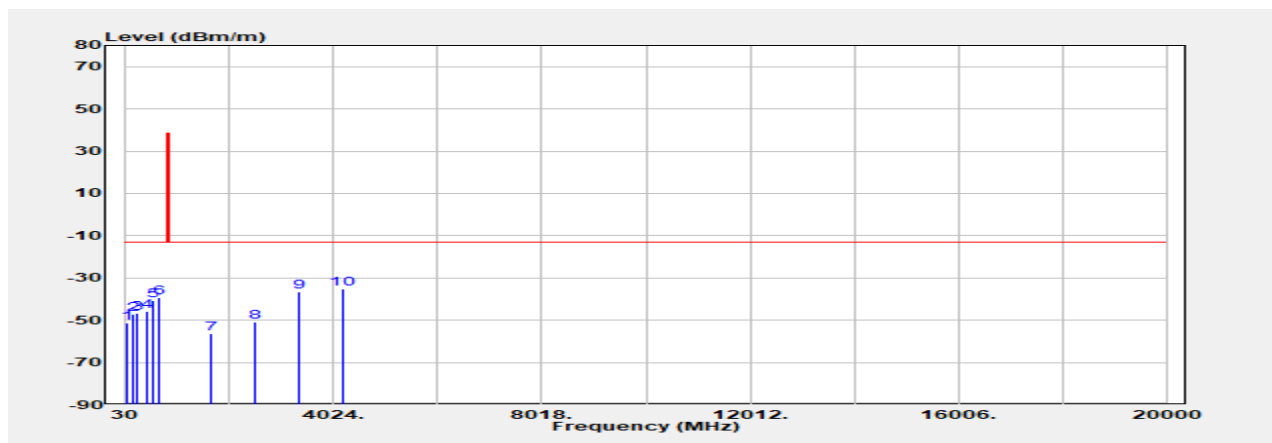
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Report Number :TERF2204000397E2
 Operation Mode :3G B5
 Test Mode :Tx CH MID
 EUT Pol :E1 Plane
 Test Frequency :836.6 MHz

Test Site :SAC G
 Test Date :2022-06-10
 Temp./Humi. :21.7/70
 Antenna Pol. :Vertical
 Engineer :Quentin Liu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
60.070	-51.29	-46.96	-9.56	-2.55	-13.00	-38.29
186.170	-47.30	-47.95	2.59	-2.93	-13.00	-34.30
251.160	-46.75	-46.93	4.31	-3.11	-13.00	-33.75
440.310	-45.64	-41.76	4.04	-2.75	-13.00	-32.64
552.830	-40.64	-39.78	4.22	-3.10	-13.00	-27.64
679.900	-39.39	-59.66	3.81	-3.42	-13.00	-26.39
1673.200	-56.55	-53.98	9.40	-6.29	-13.00	-43.55
2509.800	-51.06	-39.88	10.58	-7.66	-13.00	-38.06
3346.400	-36.35	-37.82	12.39	-8.86	-13.00	-23.35
4183.000	-35.22	-46.96	12.60	-10.00	-13.00	-22.22

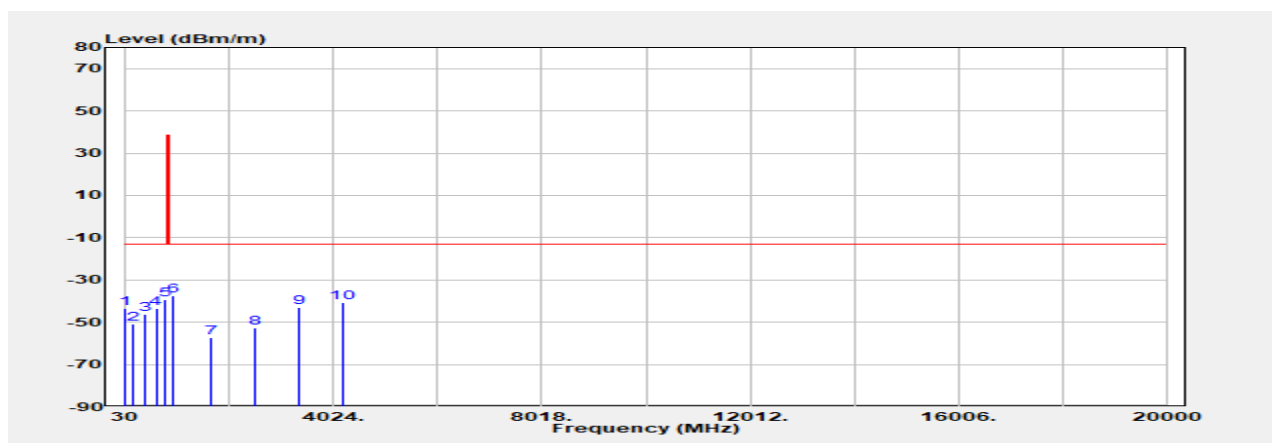
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Report Number :TERF2204000397E2
 Operation Mode :3G B5
 Test Mode :Tx CH MID
 EUT Pol :E1 Plane
 Test Frequency :836.6 MHz

Test Site :SAC G
 Test Date :2022-06-10
 Temp./Humi. :21.7/70
 Antenna Pol. :Horizontal
 Engineer :Quentin Liu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.940	-43.54	-26.70	-14.44	-2.40	-13.00	-30.54
154.160	-50.68	-46.45	-1.41	-2.82	-13.00	-37.68
414.120	-46.20	-47.58	4.34	-2.96	-13.00	-33.20
610.060	-43.53	-44.20	3.47	-2.80	-13.00	-30.53
793.390	-39.30	-39.63	3.82	-3.49	-13.00	-26.30
950.530	-37.70	-37.07	3.80	-4.43	-13.00	-24.70
1673.200	-57.35	-60.46	9.40	-6.29	-13.00	-44.35
2509.800	-52.81	-55.73	10.58	-7.66	-13.00	-39.81
3346.400	-42.85	-46.38	12.39	-8.86	-13.00	-29.85
4183.000	-40.52	-43.12	12.60	-10.00	-13.00	-27.52

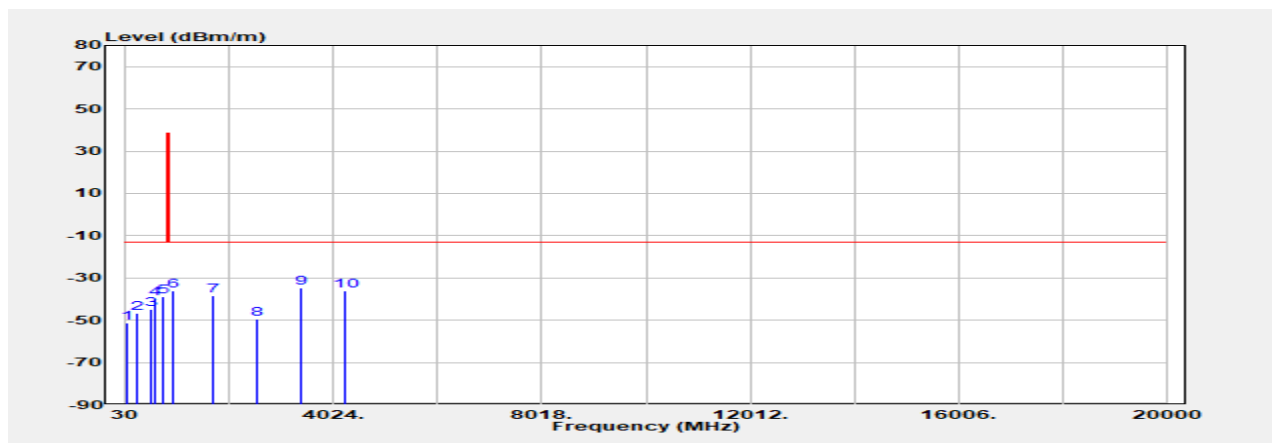
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Report Number :TERF2204000397E2
 Operation Mode :3G B5
 Test Mode :Tx CH HIGH
 EUT Pol :E1 Plane
 Test Frequency :846.6 MHz

Test Site :SAC G
 Test Date :2022-06-10
 Temp./Humi. :21.7/70
 Antenna Pol. :Vertical
 Engineer :Quentin Liu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
60.070	-51.29	-39.18	-9.56	-2.55	-13.00	-38.29
251.160	-46.75	-47.95	4.31	-3.11	-13.00	-33.75
510.150	-44.80	-46.06	4.11	-2.85	-13.00	-31.80
603.270	-39.99	-40.78	3.61	-2.82	-13.00	-26.99
727.430	-38.78	-38.05	3.15	-3.88	-13.00	-25.78
946.650	-36.04	-35.47	3.85	-4.42	-13.00	-23.04
1693.200	-38.24	-41.33	9.40	-6.31	-13.00	-25.24
2539.800	-49.62	-52.69	10.82	-7.75	-13.00	-36.62
3386.400	-34.49	-38.01	12.47	-8.95	-13.00	-21.49
4233.000	-35.92	-38.53	12.67	-10.06	-13.00	-22.92

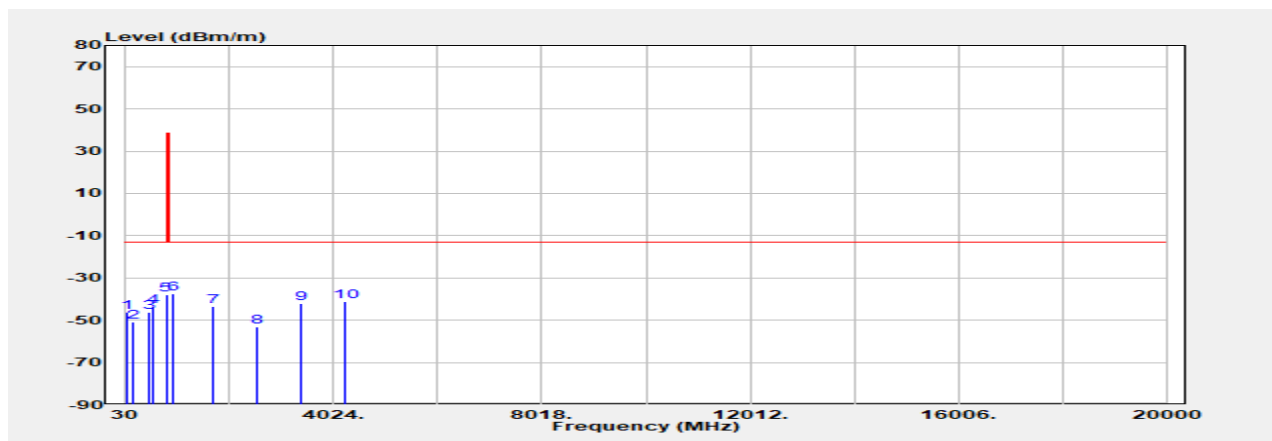
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Report Number :TERF2204000397E2
 Operation Mode :3G B5
 Test Mode :Tx CH HIGH
 EUT Pol :E1 Plane
 Test Frequency :846.6 MHz

Test Site :SAC G
 Test Date :2022-06-10
 Temp./Humi. :21.7/70
 Antenna Pol. :Horizontal
 Engineer :Quentin Liu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
50.370	-46.09	-31.80	-11.82	-2.47	-13.00	-33.09
154.160	-50.68	-46.45	-1.41	-2.82	-13.00	-37.68
462.620	-46.11	-47.42	4.11	-2.80	-13.00	-33.11
551.860	-43.68	-44.80	4.20	-3.08	-13.00	-30.68
803.090	-37.98	-38.48	4.12	-3.62	-13.00	-24.98
950.530	-37.70	-37.07	3.80	-4.43	-13.00	-24.70
1693.200	-43.32	-46.41	9.40	-6.31	-13.00	-30.32
2539.800	-53.35	-56.42	10.82	-7.75	-13.00	-40.35
3386.400	-42.21	-45.73	12.47	-8.95	-13.00	-29.21
4233.000	-41.09	-43.70	12.67	-10.06	-13.00	-28.09

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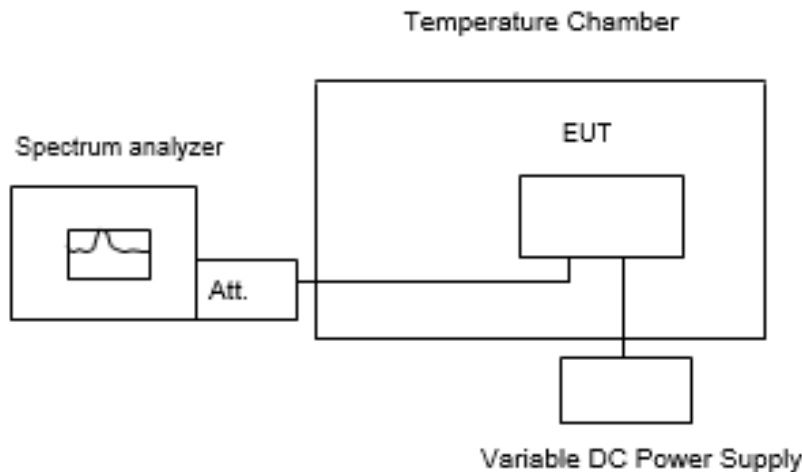
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12 FREQUENCY STABILITY MEASUREMENT

12.1 Standard Applicabl

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

12.2 Test Set-up



Note: Measurement setup for testing on Antenna connector

12.3 Measurement Procedure

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

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

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

12.4 Measurement Result

Note: The battery is rated 3.8V dc.

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WCDMA II Mid Channel 1880.0000 MHz				
Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit
FREQUENCY ERROR vs. VOLTAGE				
4.37	20	1879.999988	-0.0065	+/- 2.5 ppm
3.8	20	1879.999986	-0.0076	
3.23	20	1879.999981	-0.0103	
3.4 (End point)	20	1879.999999	-0.0004	
FREQUENCY ERROR vs. Temp.				
3.8	50	1879.999982	-0.0097	+/- 2.5 ppm
3.8	40	1879.999996	-0.0019	
3.8	30	1880.00001	0.0055	
3.8	20	1880.000018	0.0095	
3.8	10	1880.000016	0.0083	
3.8	0	1879.999982	-0.0097	
3.8	-10	1880.000003	0.0018	
3.8	-20	1880.000003	0.0016	
3.8	-30	1880.000004	0.0020	

WCDMA IV Mid Channel 1732.6000 MHz				
Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit
FREQUENCY ERROR vs. VOLTAGE				
4.37	20	1732.600005	0.0028	+/- 2.5 ppm
3.8	20	1732.59999	-0.0057	
3.23	20	1732.600014	0.0082	
3.4 (End point)	20	1732.599992	-0.0046	
FREQUENCY ERROR vs. Temp.				
3.8	50	1732.600004	0.0023	+/- 2.5 ppm
3.8	40	1732.599995	-0.0031	
3.8	30	1732.59999	-0.0058	
3.8	20	1732.600012	0.0070	
3.8	10	1732.599999	-0.0006	
3.8	0	1732.599985	-0.0085	
3.8	-10	1732.6	0.0000	
3.8	-20	1732.60001	0.0057	
3.8	-30	1732.599998	-0.0012	

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WCDMA V Mid Channel 836.6000 MHz				
Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit
FREQUENCY ERROR vs. VOLTAGE				
4.37	20	836.6000176	0.0210	+/- 2.5 ppm
3.8	20	836.5999936	-0.0077	
3.23	20	836.600014	0.0167	
3.4 (End point)	20	836.5999821	-0.0214	
FREQUENCY ERROR vs. Temp.				
3.8	50	836.6000185	0.0221	+/- 2.5 ppm
3.8	40	836.6000101	0.0121	
3.8	30	836.6000064	0.0077	
3.8	20	836.599992	-0.0096	
3.8	10	836.6000163	0.0195	
3.8	0	836.6000158	0.0189	
3.8	-10	836.5999957	-0.0051	
3.8	-20	836.6000047	0.0056	
3.8	-30	836.6000075	0.0090	

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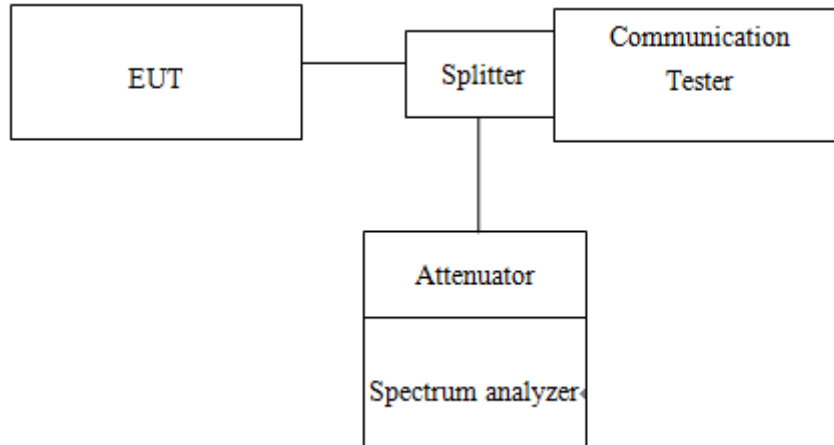
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13 PEAK TO AVERAGE RATIO

13.1 Standard Applicable

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

13.2 Test SET-UP



13.3 Measurement Procedure

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

13.4 Measurement Result

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA II	HSDPA II	HSUPA II
1852.4	9262	3.19	3.18	3.16
1880	9400	3.16	3.15	3.12
1907.6	9538	3.01	3.01	3.03

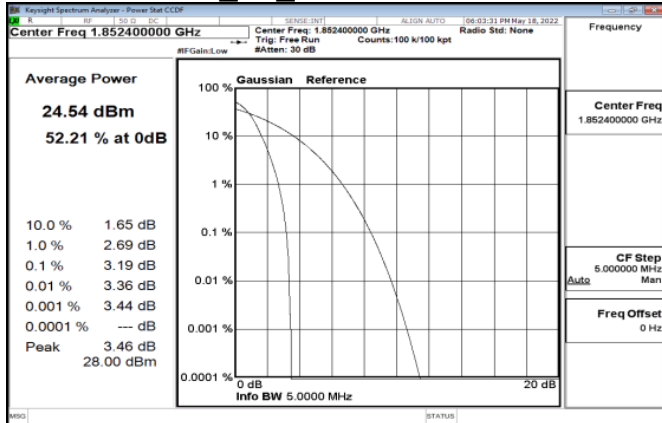
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA IV	HSDPA IV	HSUPA IV
1712.4	1312	3.26	3.28	3.27
1732.6	1413	2.77	2.79	2.78
1752.6	1513	3.24	3.28	3.26

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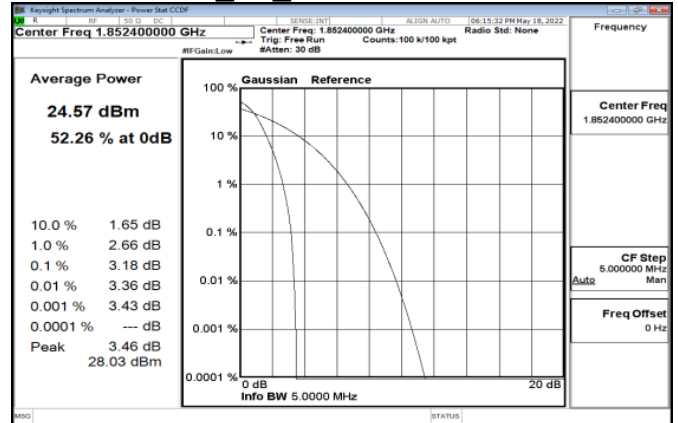
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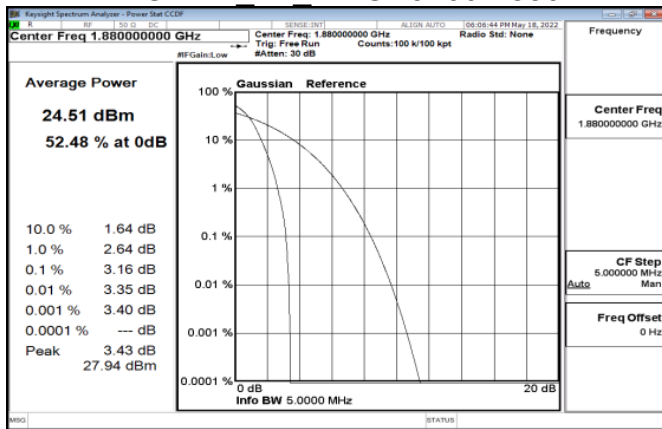
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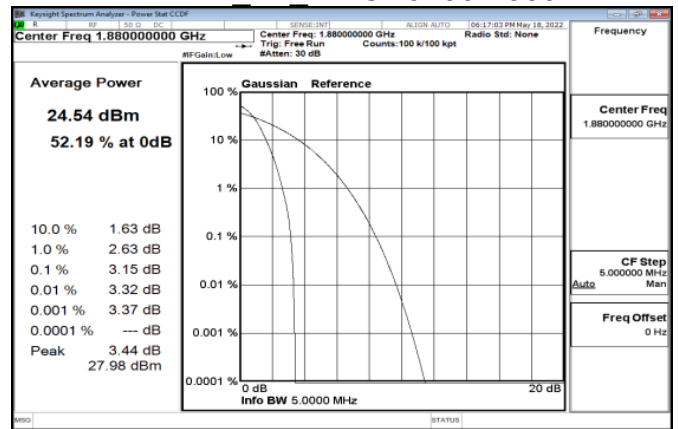
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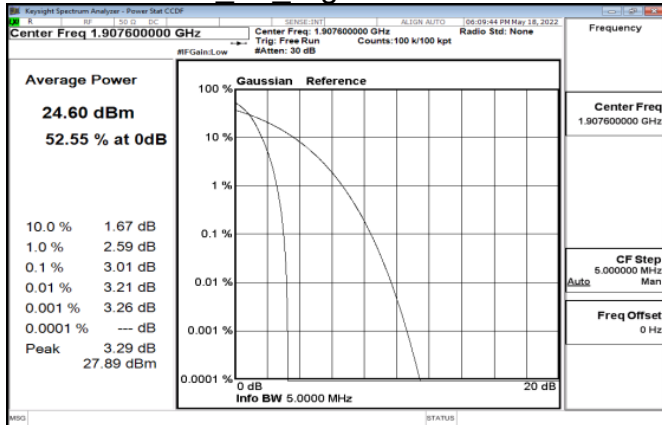
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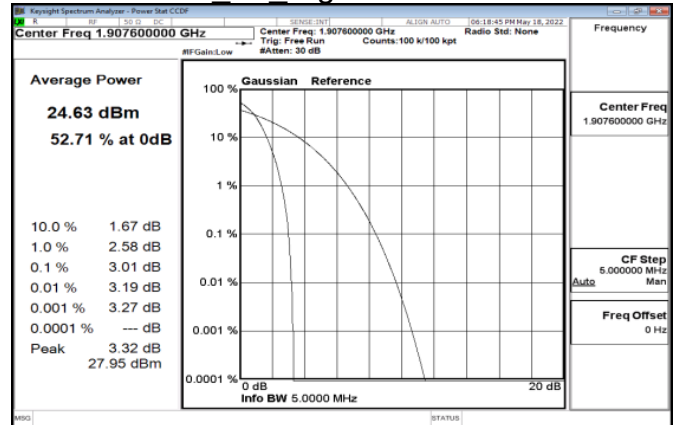
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WCDMA B2 HighCH9538-1907.6



HSDPA B2 HighCH9538-1907.6

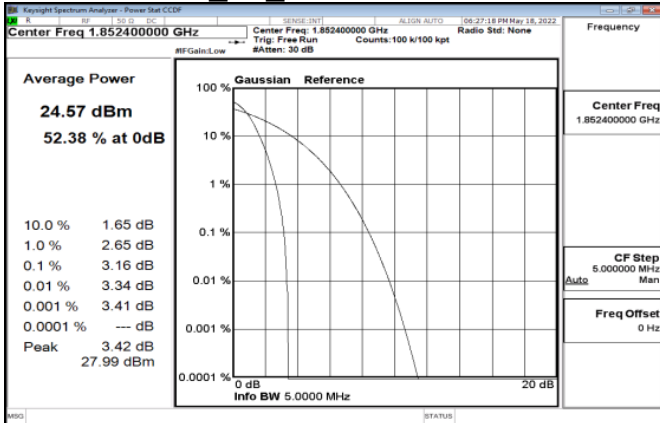


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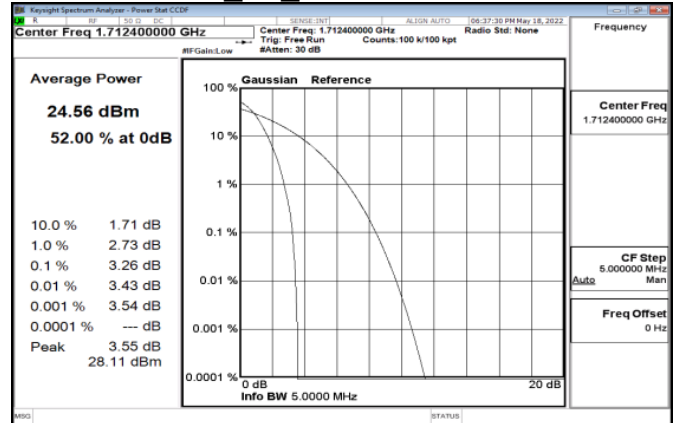
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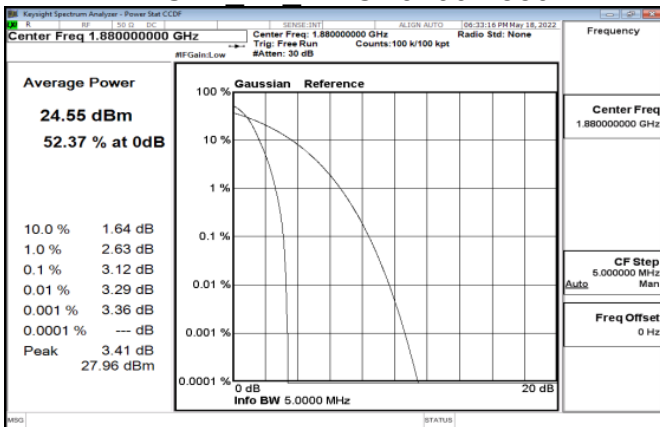
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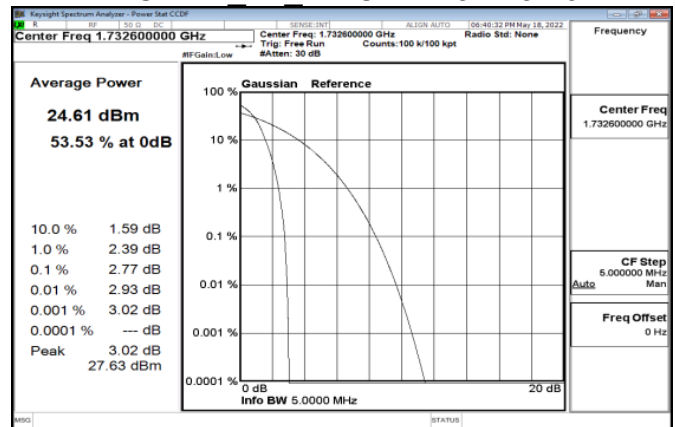
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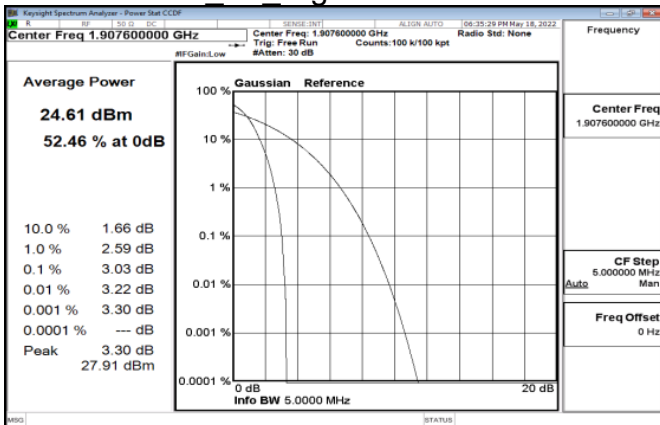
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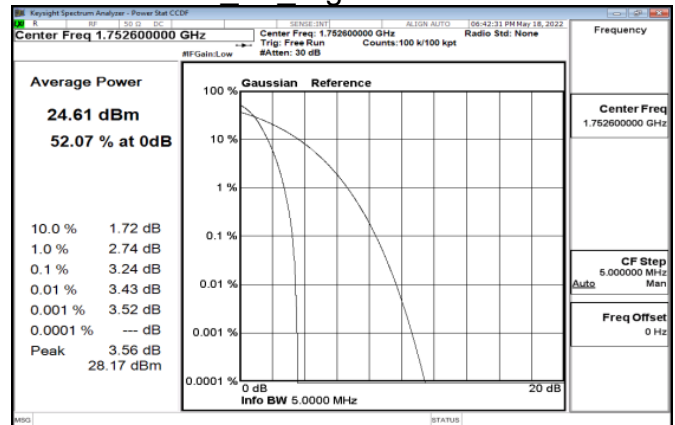
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HSUPA B2 HighCH9538-1907.6



WCDMA B4 HighCH1513-1752.6

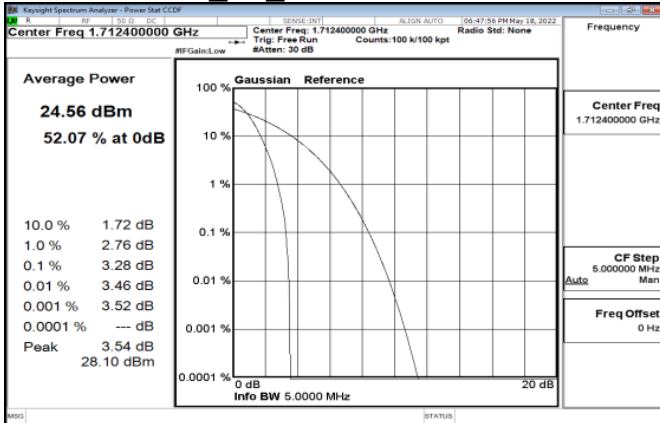


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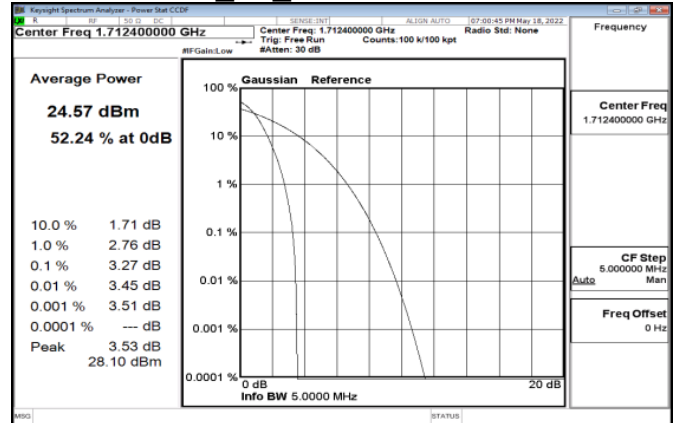
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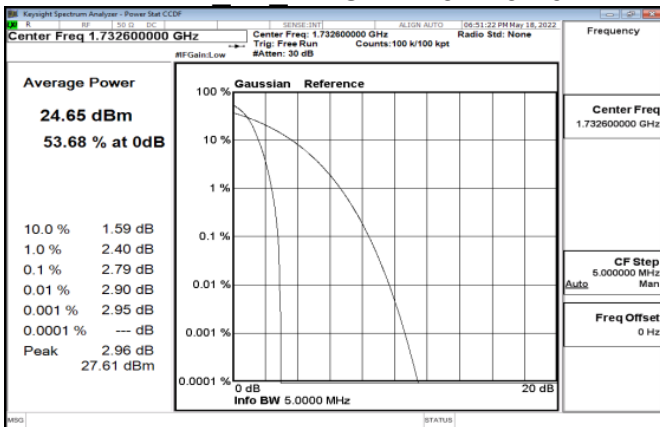
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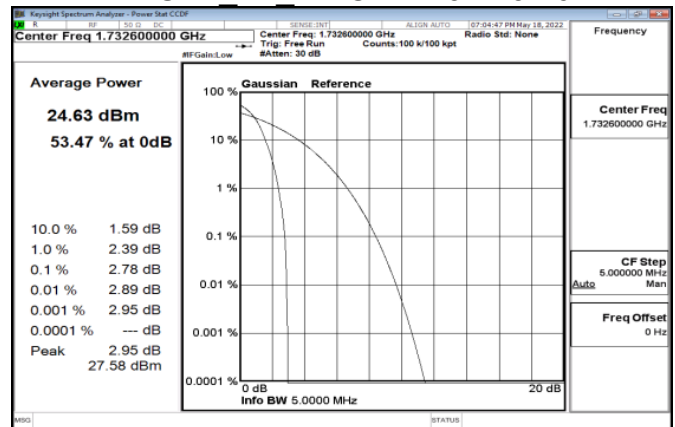
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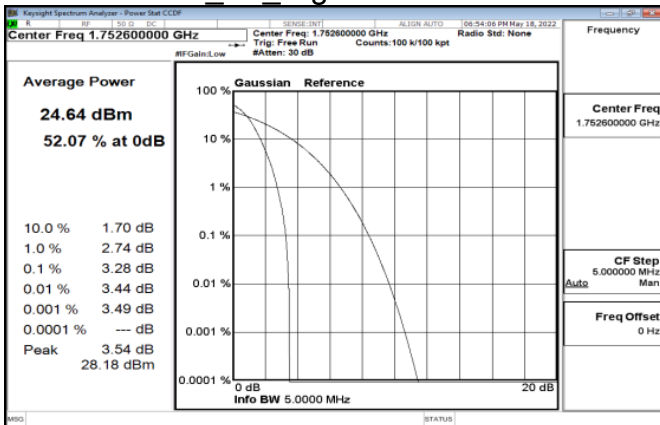
HSDPA B4 MidCH1413-1732.6



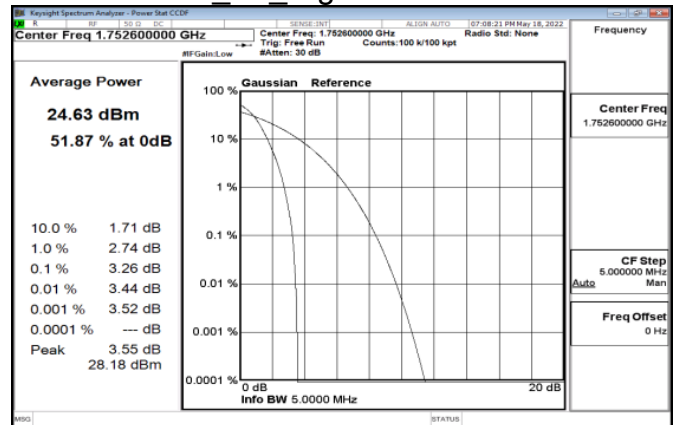
HSUPA B4 MidCH1413-1732.6



HSDPA B4 HighCH1513-1752.6



HSUPA B4 HighCH1513-1752.6



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~ End of Report ~

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