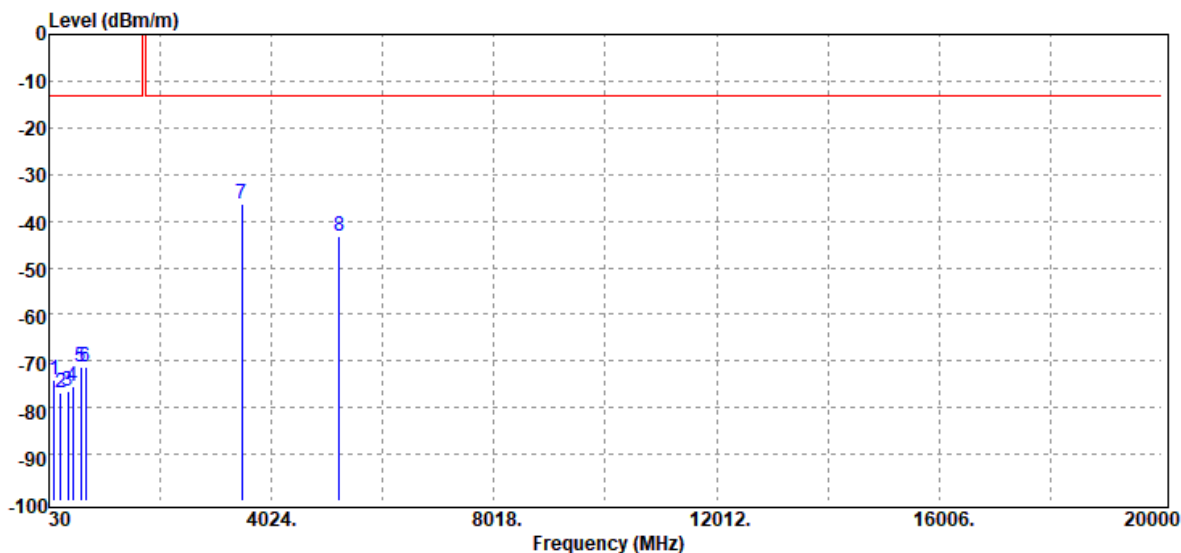


Report Number :ER-2021-40008
 Operation Mode :LTE B4
 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Frequency :1747.5 MHz

Test Site :SAC III Chamber
 Test Date :2021-04-27
 Temp./Humi. :23.2/62
 Antenna Pol. :VERTICAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
125.06	-74.04	-71.01	-1.88	-1.15	-13.00	-61.04
241.46	-76.84	-79.61	4.38	-1.61	-13.00	-63.84
362.71	-76.36	-78.87	4.46	-1.95	-13.00	-63.36
450.01	-75.49	-77.44	4.14	-2.19	-13.00	-62.49
604.24	-71.27	-72.31	3.62	-2.58	-13.00	-58.27
681.84	-71.12	-72.06	3.82	-2.88	-13.00	-58.12
3495.00	-36.43	-42.55	12.41	-6.29	-13.00	-23.43
5242.50	-43.21	-47.94	12.74	-8.01	-13.00	-30.21

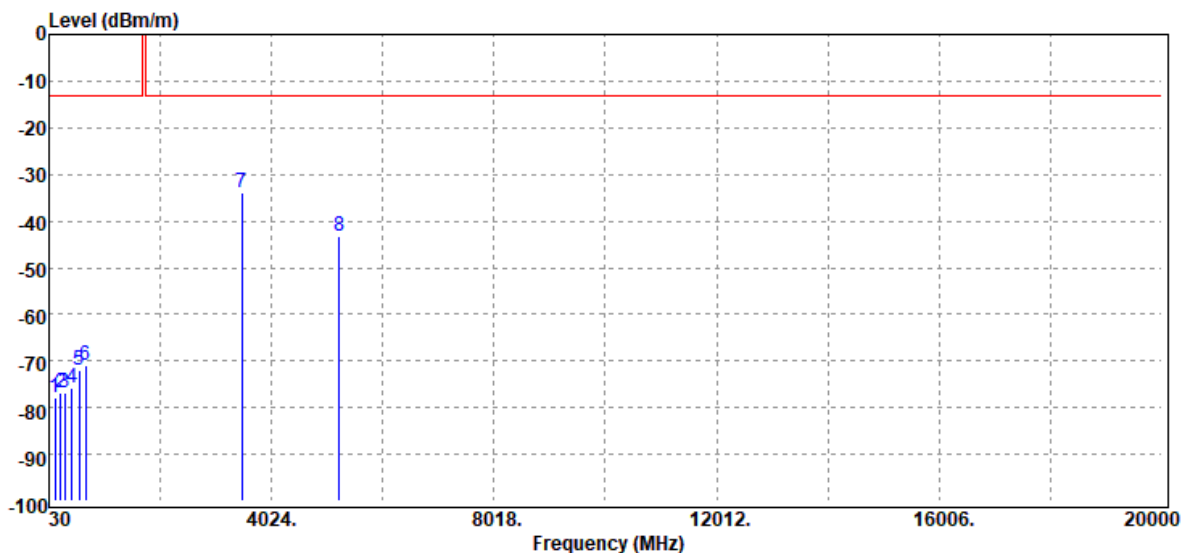
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Report Number :ER-2021-40008
 Operation Mode :LTE B4
 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Frequency :1747.5 MHz

Test Site :SAC III Chamber
 Test Date :2021-04-27
 Temp./Humi. :23.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick Lin



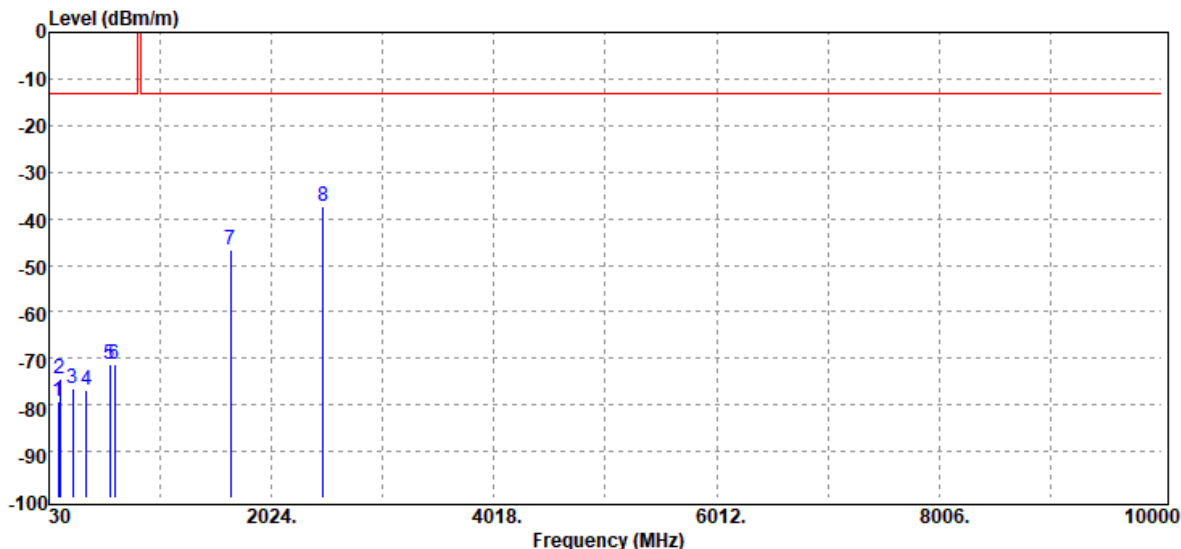
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
132.82	-77.88	-74.70	-1.97	-1.21	-13.00	-64.88
240.49	-76.85	-79.62	4.38	-1.61	-13.00	-63.85
306.45	-76.93	-79.41	4.25	-1.77	-13.00	-63.93
447.10	-75.81	-77.77	4.15	-2.19	-13.00	-62.81
570.29	-71.99	-73.46	4.09	-2.62	-13.00	-58.99
689.60	-71.08	-71.81	3.76	-3.03	-13.00	-58.08
3495.00	-33.76	-39.88	12.41	-6.29	-13.00	-20.76
5242.50	-43.36	-48.09	12.74	-8.01	-13.00	-30.36

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Report Number	:ER-2021-40008	Test Site	:SAC III Chamber
Operation Mode	:LTE B5	Test Date	:2021-04-27
Test Mode	:Tx CH Low	Temp./Humi.	:23.2/62
EUT Pol	:E2 Plane	Antenna Pol.	:VERTICAL
Test Frequency	:829 MHz	Engineer	:Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
110.51	-79.30	-76.74	-1.50	-1.06	-13.00	-66.30
125.06	-74.46	-71.43	-1.88	-1.15	-13.00	-61.46
240.49	-76.42	-79.19	4.38	-1.61	-13.00	-63.42
362.71	-76.95	-79.46	4.46	-1.95	-13.00	-63.95
571.26	-71.37	-72.81	4.07	-2.63	-13.00	-58.37
618.79	-71.19	-72.31	3.43	-2.31	-13.00	-58.19
1658.00	-46.62	-51.87	9.52	-4.27	-13.00	-33.62
2487.00	-37.48	-42.87	10.57	-5.18	-13.00	-24.48

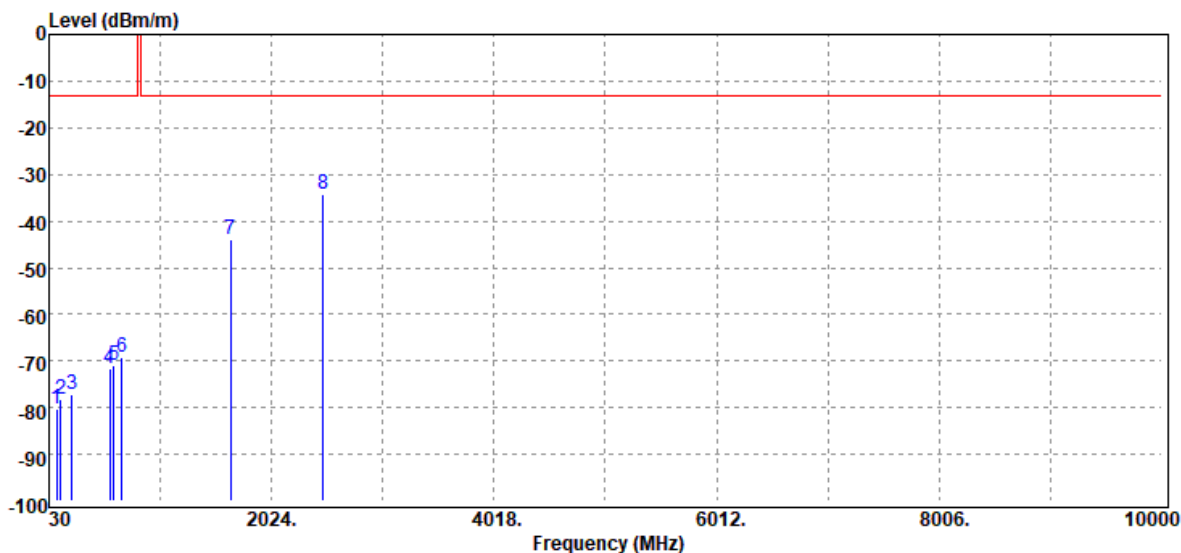
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Report Number :ER-2021-40008
 Operation Mode :LTE B5
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane
 Test Frequency :829 MHz

Test Site :SAC III Chamber
 Test Date :2021-04-27
 Temp./Humi. :23.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
97.90	-80.13	-78.52	-0.60	-1.01	-13.00	-67.13
132.82	-78.36	-75.18	-1.97	-1.21	-13.00	-65.36
238.55	-77.04	-79.85	4.42	-1.61	-13.00	-64.04
573.20	-71.52	-72.89	4.02	-2.65	-13.00	-58.52
613.94	-70.93	-71.97	3.46	-2.42	-13.00	-57.93
681.84	-69.34	-70.28	3.82	-2.88	-13.00	-56.34
1658.00	-44.11	-49.36	9.52	-4.27	-13.00	-31.11
2487.00	-34.28	-39.67	10.57	-5.18	-13.00	-21.28

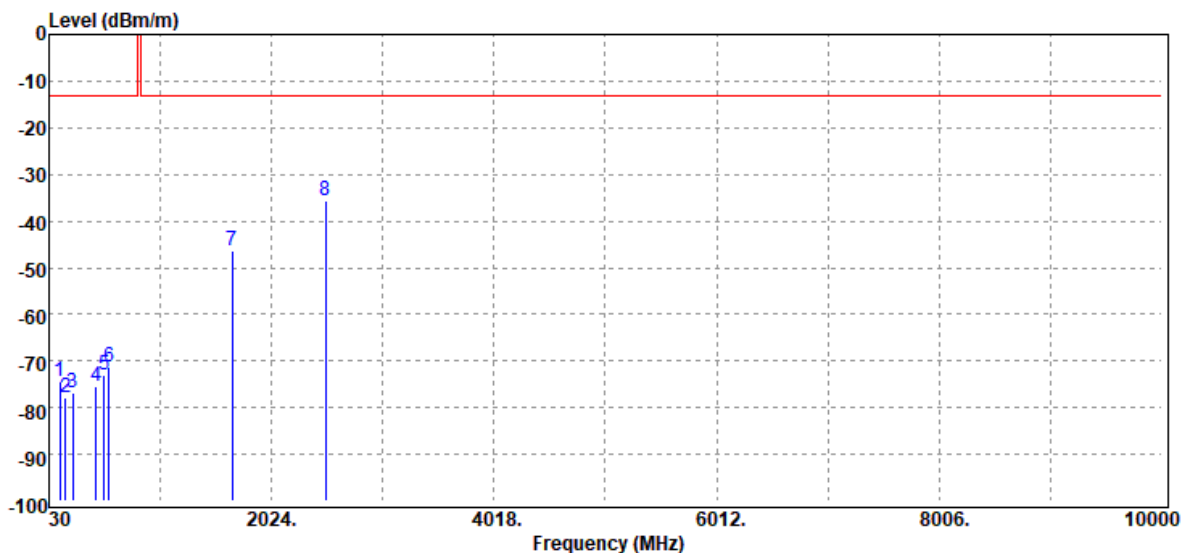
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Report Number :ER-2021-40008
 Operation Mode :LTE B5
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane
 Test Frequency :836.5 MHz

Test Site :SAC III Chamber
 Test Date :2021-04-27
 Temp./Humi. :23.2/62
 Antenna Pol. :VERTICAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
125.06	-74.30	-71.27	-1.88	-1.15	-13.00	-61.30
177.44	-77.81	-77.37	0.91	-1.35	-13.00	-64.81
241.46	-76.85	-79.62	4.38	-1.61	-13.00	-63.85
453.89	-75.36	-77.24	4.14	-2.26	-13.00	-62.36
527.61	-72.88	-75.02	4.17	-2.03	-13.00	-59.88
565.44	-71.41	-72.91	4.12	-2.62	-13.00	-58.41
1673.00	-46.35	-51.61	9.55	-4.29	-13.00	-33.35
2509.50	-35.50	-40.92	10.62	-5.20	-13.00	-22.50

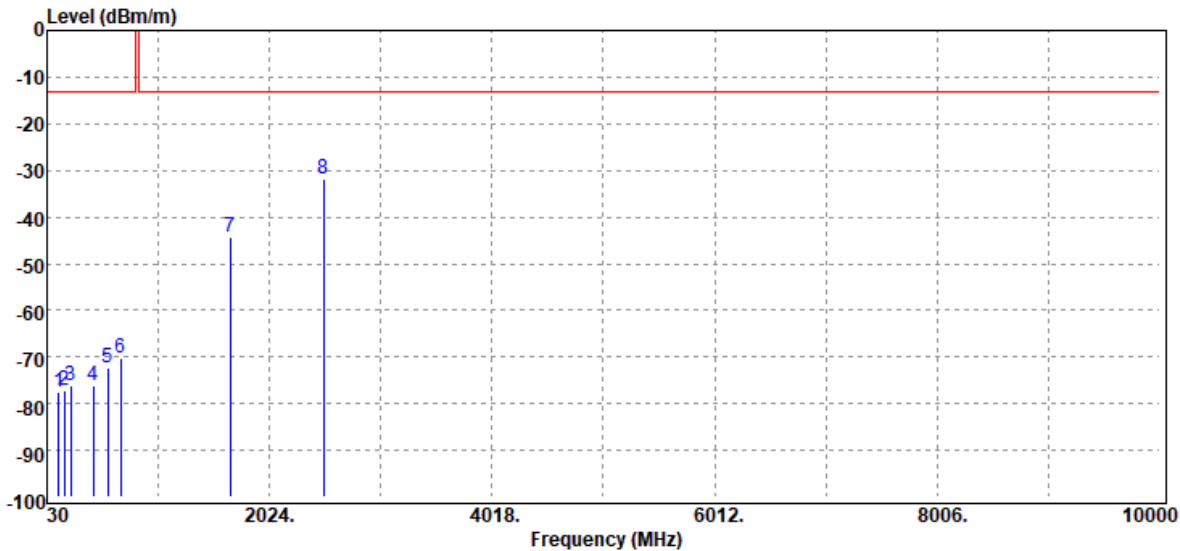
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Report Number :ER-2021-40008
 Operation Mode :LTE B5
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane
 Test Frequency :836.5 MHz

Test Site :SAC III Chamber
 Test Date :2021-04-27
 Temp./Humi. :23.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
131.85	-77.66	-74.37	-2.09	-1.20	-13.00	-64.66
188.11	-77.15	-78.71	2.98	-1.42	-13.00	-64.15
241.46	-76.13	-78.90	4.38	-1.61	-13.00	-63.13
447.10	-76.01	-77.97	4.15	-2.19	-13.00	-63.01
571.26	-72.15	-73.59	4.07	-2.63	-13.00	-59.15
687.66	-70.21	-70.99	3.77	-2.99	-13.00	-57.21
1673.00	-44.26	-49.52	9.55	-4.29	-13.00	-31.26
2509.50	-31.76	-37.18	10.62	-5.20	-13.00	-18.76

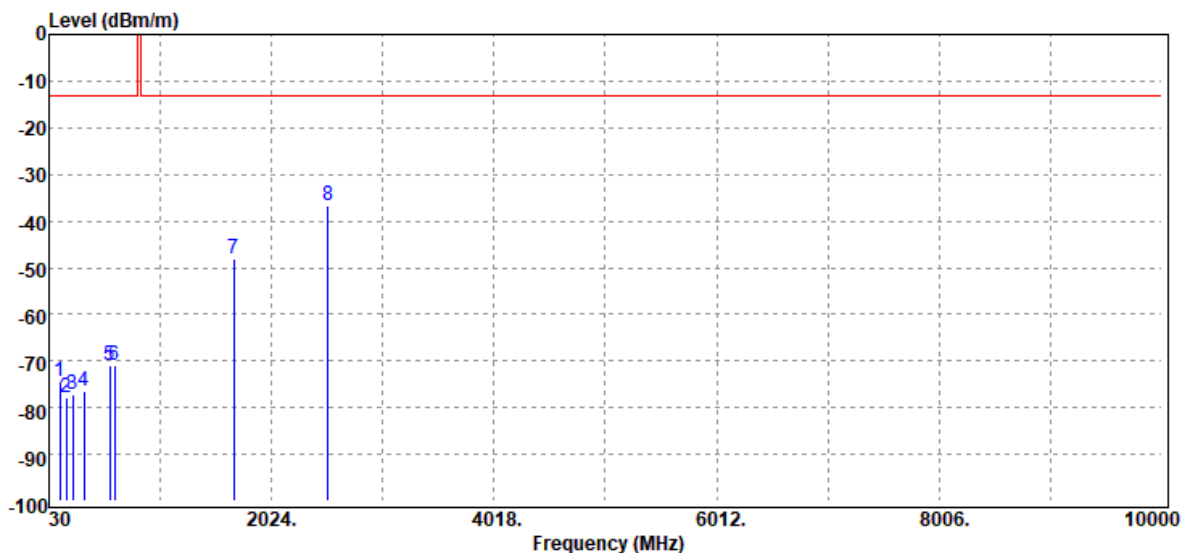
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Report Number :ER-2021-40008
 Operation Mode :LTE B5
 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Frequency :844 MHz

Test Site :SAC III Chamber
 Test Date :2021-04-27
 Temp./Humi. :23.2/62
 Antenna Pol. :VERTICAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
125.06	-74.53	-71.50	-1.88	-1.15	-13.00	-61.53
183.26	-77.95	-78.63	2.07	-1.39	-13.00	-64.95
246.31	-77.13	-79.89	4.36	-1.60	-13.00	-64.13
345.25	-76.63	-79.10	4.44	-1.97	-13.00	-63.63
571.26	-70.97	-72.41	4.07	-2.63	-13.00	-57.97
619.76	-70.98	-72.12	3.43	-2.29	-13.00	-57.98
1688.00	-48.15	-53.42	9.58	-4.31	-13.00	-35.15
2532.00	-36.56	-42.00	10.66	-5.22	-13.00	-23.56

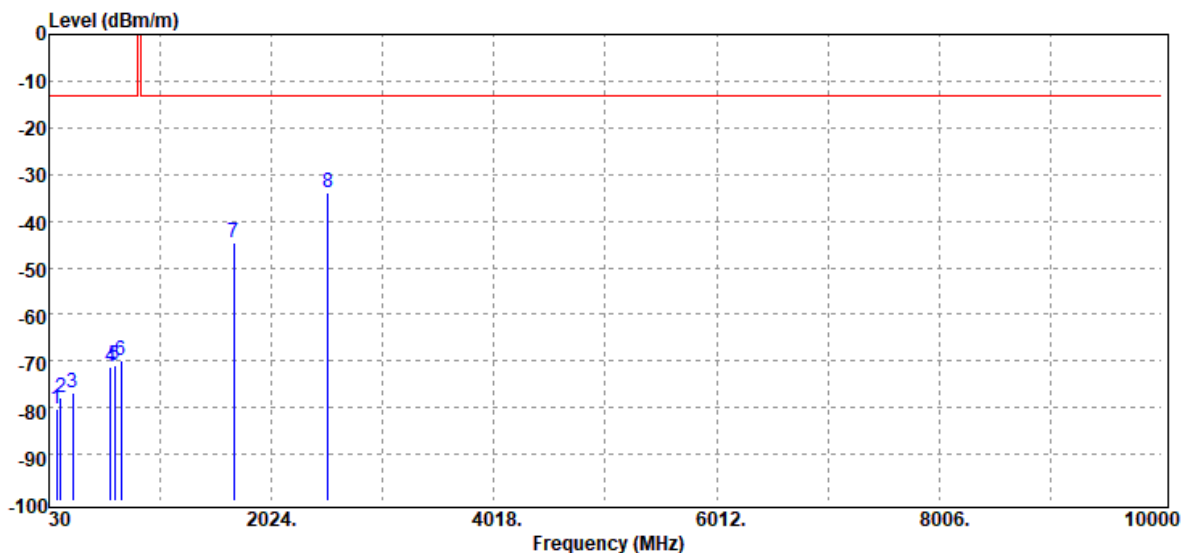
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Report Number :ER-2021-40008
 Operation Mode :LTE B5
 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Frequency :844 MHz

Test Site :SAC III Chamber
 Test Date :2021-04-27
 Temp./Humi. :23.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick Lin



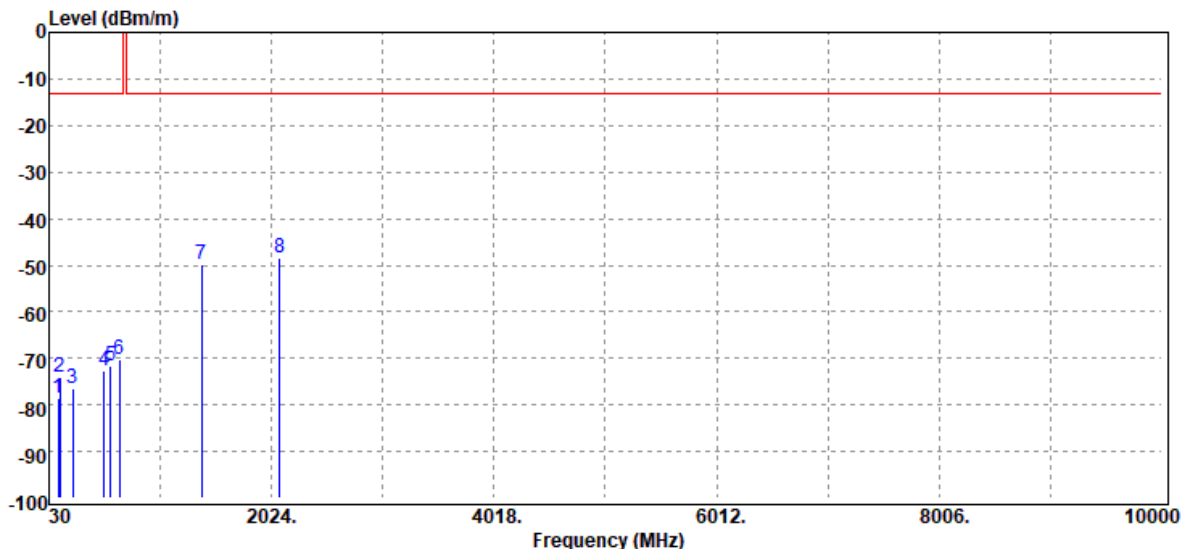
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
94.99	-80.40	-79.03	-0.37	-1.00	-13.00	-67.40
132.82	-77.98	-74.80	-1.97	-1.21	-13.00	-64.98
239.52	-76.97	-79.76	4.40	-1.61	-13.00	-63.97
584.84	-71.35	-72.50	3.83	-2.68	-13.00	-58.35
618.79	-70.88	-72.00	3.43	-2.31	-13.00	-57.88
676.99	-70.03	-70.93	3.85	-2.95	-13.00	-57.03
1688.00	-44.77	-50.04	9.58	-4.31	-13.00	-31.77
2532.00	-33.97	-39.41	10.66	-5.22	-13.00	-20.97

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Report Number	:ER-2021-40008	Test Site	:SAC III Chamber
Operation Mode	:LTE B12	Test Date	:2021-04-27
Test Mode	:Tx CH Low	Temp./Humi.	:23.2/62
EUT Pol	:E2 Plane	Antenna Pol.	:VERTICAL
Test Frequency	:699.7 MHz	Engineer	:Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
110.51	-78.50	-75.94	-1.50	-1.06	-13.00	-65.50
125.06	-73.94	-70.91	-1.88	-1.15	-13.00	-60.94
243.40	-76.53	-79.29	4.37	-1.61	-13.00	-63.53
527.61	-72.73	-74.87	4.17	-2.03	-13.00	-59.73
582.90	-71.68	-72.87	3.88	-2.69	-13.00	-58.68
659.53	-70.10	-71.38	3.66	-2.38	-13.00	-57.10
1399.40	-49.87	-53.62	7.59	-3.84	-13.00	-36.87
2099.10	-48.29	-53.42	9.90	-4.77	-13.00	-35.29

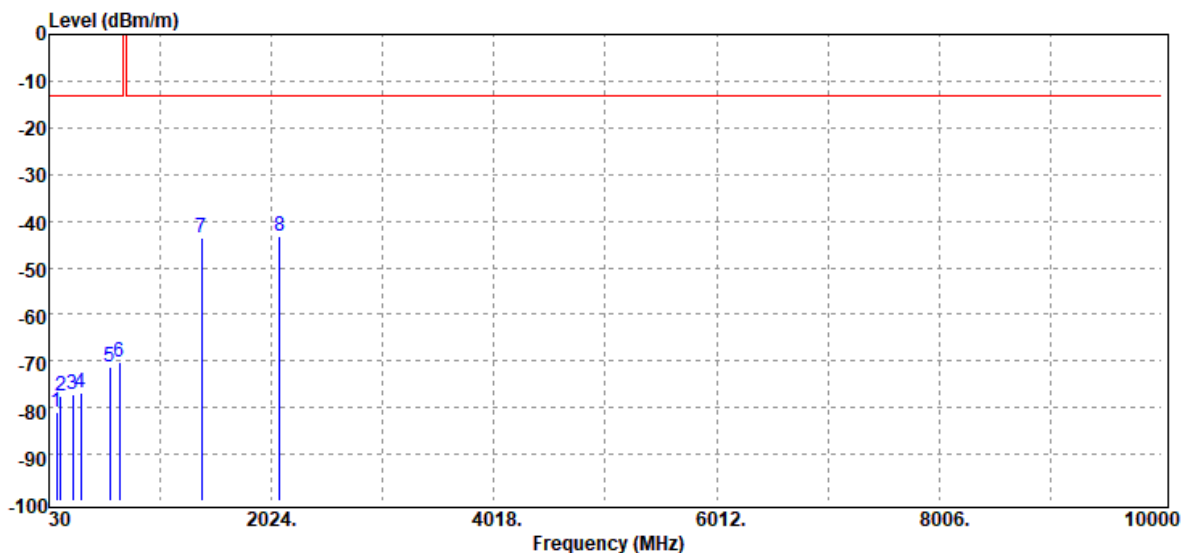
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Report Number :ER-2021-40008
 Operation Mode :LTE B12
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane
 Test Frequency :699.7 MHz

Test Site :SAC III Chamber
 Test Date :2021-04-27
 Temp./Humi. :23.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
94.99	-81.02	-79.65	-0.37	-1.00	-13.00	-68.02
132.82	-77.39	-74.21	-1.97	-1.21	-13.00	-64.39
243.40	-77.16	-79.92	4.37	-1.61	-13.00	-64.16
318.09	-76.85	-79.35	4.17	-1.67	-13.00	-63.85
575.14	-71.41	-72.72	3.97	-2.66	-13.00	-58.41
658.56	-70.21	-71.48	3.65	-2.38	-13.00	-57.21
1399.40	-43.70	-47.45	7.59	-3.84	-13.00	-30.70
2099.10	-43.18	-48.31	9.90	-4.77	-13.00	-30.18

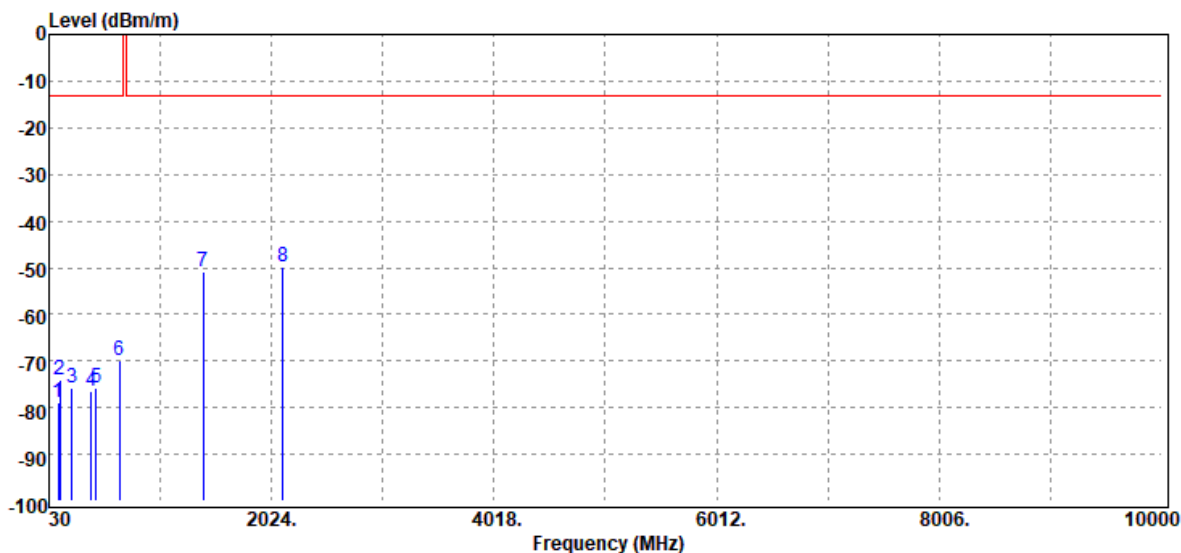
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Report Number :ER-2021-40008
 Operation Mode :LTE B12
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane
 Test Frequency :707.5 MHz

Test Site :SAC III Chamber
 Test Date :2021-04-27
 Temp./Humi. :23.2/62
 Antenna Pol. :VERTICAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
110.51	-78.74	-76.18	-1.50	-1.06	-13.00	-65.74
125.06	-74.03	-71.00	-1.88	-1.15	-13.00	-61.03
238.55	-75.62	-78.43	4.42	-1.61	-13.00	-62.62
408.30	-76.44	-78.95	4.40	-1.89	-13.00	-63.44
449.04	-75.84	-77.79	4.14	-2.19	-13.00	-62.84
662.44	-69.80	-70.93	3.70	-2.57	-13.00	-56.80
1415.00	-50.73	-54.59	7.72	-3.86	-13.00	-37.73
2122.50	-49.84	-54.67	9.63	-4.80	-13.00	-36.84

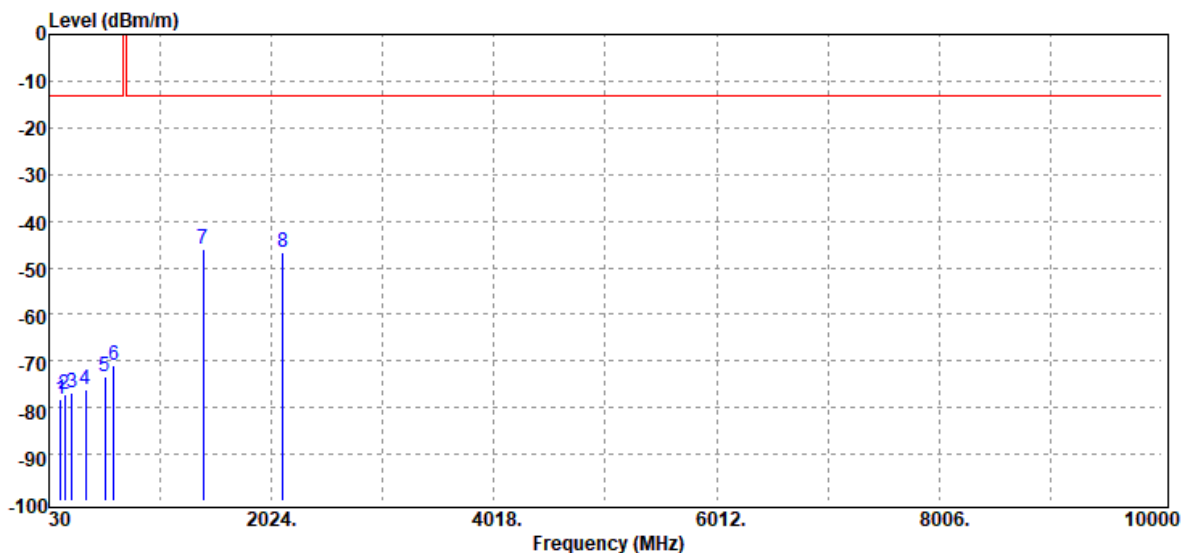
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Report Number :ER-2021-40008
 Operation Mode :LTE B12
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane
 Test Frequency :707.5 MHz

Test Site :SAC III Chamber
 Test Date :2021-04-27
 Temp./Humi. :23.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
132.82	-78.21	-75.03	-1.97	-1.21	-13.00	-65.21
167.74	-77.08	-75.27	-0.55	-1.26	-13.00	-64.08
236.61	-76.83	-79.68	4.46	-1.61	-13.00	-63.83
357.86	-76.20	-78.74	4.50	-1.96	-13.00	-63.20
534.40	-73.23	-75.32	4.24	-2.15	-13.00	-60.23
610.06	-70.77	-71.76	3.49	-2.50	-13.00	-57.77
1415.00	-46.13	-49.99	7.72	-3.86	-13.00	-33.13
2122.50	-46.62	-51.45	9.63	-4.80	-13.00	-33.62

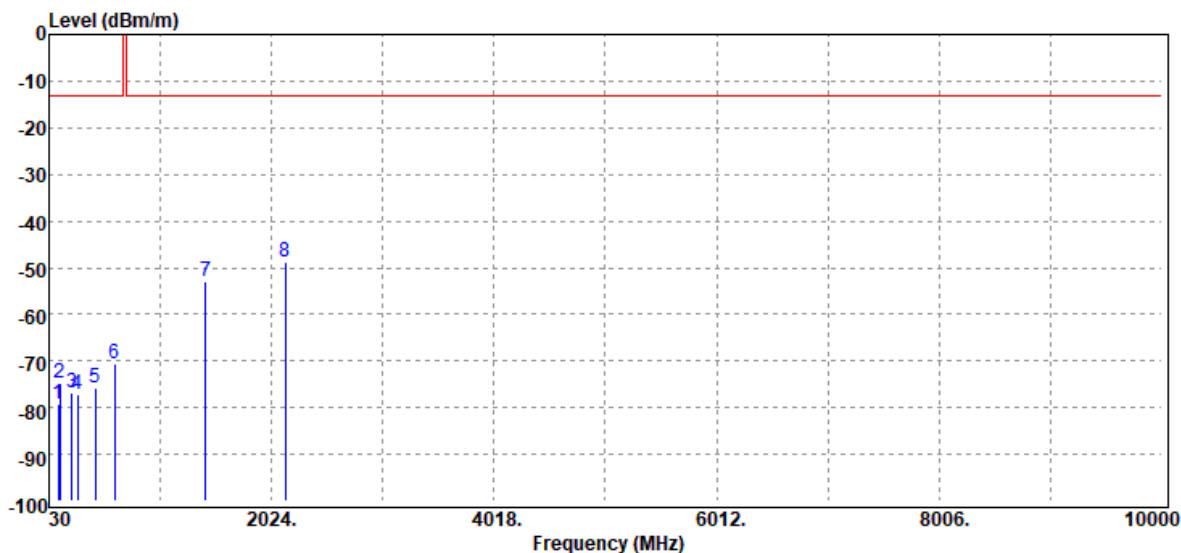
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Report Number :ER-2021-40008
 Operation Mode :LTE B12
 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Frequency :715.3 MHz

Test Site :SAC III Chamber
 Test Date :2021-04-27
 Temp./Humi. :23.2/62
 Antenna Pol. :VERTICAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
111.48	-79.37	-76.78	-1.52	-1.07	-13.00	-66.37
125.06	-74.74	-71.71	-1.88	-1.15	-13.00	-61.74
236.61	-76.93	-79.78	4.46	-1.61	-13.00	-63.93
287.05	-77.03	-79.37	4.06	-1.72	-13.00	-64.03
445.16	-75.69	-77.64	4.15	-2.20	-13.00	-62.69
619.76	-70.53	-71.67	3.43	-2.29	-13.00	-57.53
1430.60	-52.79	-56.76	7.85	-3.88	-13.00	-39.79
2145.90	-48.77	-53.29	9.35	-4.83	-13.00	-35.77

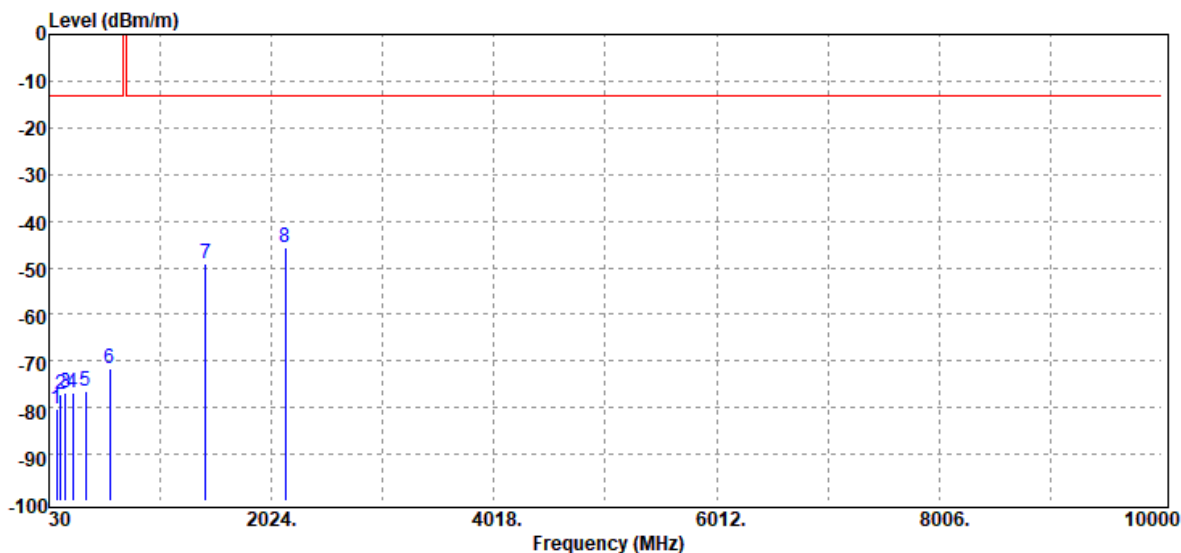
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Report Number :ER-2021-40008
 Operation Mode :LTE B12
 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Frequency :715.3 MHz

Test Site :SAC III Chamber
 Test Date :2021-04-27
 Temp./Humi. :23.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
99.84	-80.34	-78.54	-0.79	-1.01	-13.00	-67.34
133.79	-77.14	-73.86	-2.05	-1.23	-13.00	-64.14
178.41	-76.99	-76.72	1.09	-1.36	-13.00	-63.99
243.40	-76.89	-79.65	4.37	-1.61	-13.00	-63.89
359.80	-76.56	-79.13	4.51	-1.94	-13.00	-63.56
571.26	-71.63	-73.07	4.07	-2.63	-13.00	-58.63
1430.60	-48.98	-52.95	7.85	-3.88	-13.00	-35.98
2145.90	-45.81	-50.33	9.35	-4.83	-13.00	-32.81

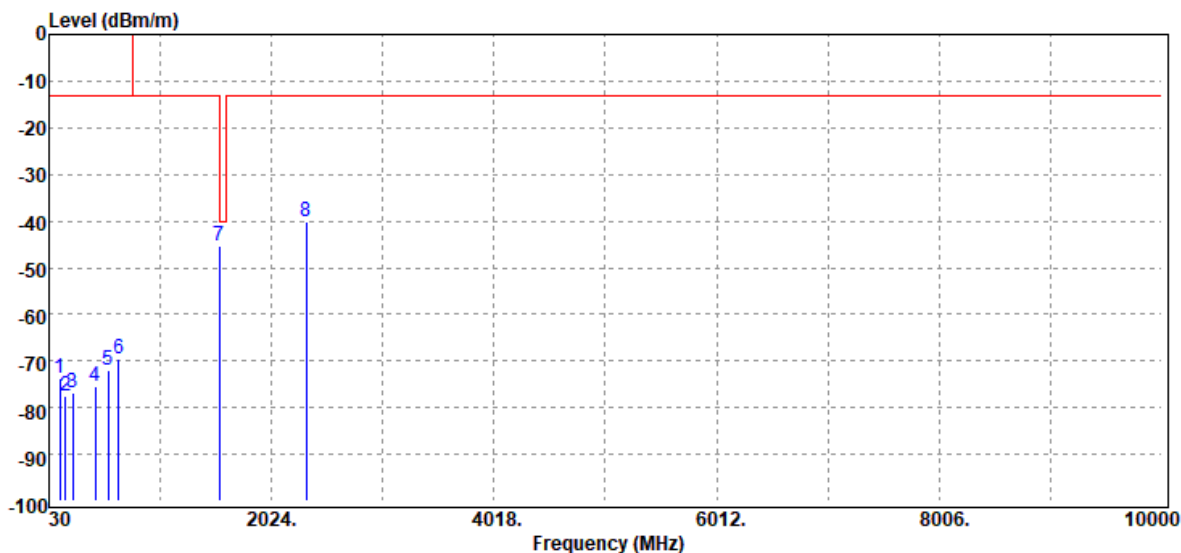
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Report Number :ER-2021-40008
 Operation Mode :LTE B13
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane
 Test Frequency :779.5 MHz

Test Site :SAC III Chamber
 Test Date :2021-04-27
 Temp./Humi. :23.2/62
 Antenna Pol. :VERTICAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
125.06	-73.57	-70.54	-1.88	-1.15	-13.00	-60.57
177.44	-77.40	-76.96	0.91	-1.35	-13.00	-64.40
241.46	-76.66	-79.43	4.38	-1.61	-13.00	-63.66
444.19	-75.47	-77.40	4.13	-2.20	-13.00	-62.47
563.50	-72.07	-73.61	4.16	-2.62	-13.00	-59.07
655.65	-69.72	-70.92	3.61	-2.41	-13.00	-56.72
1559.00	-45.34	-50.40	9.15	-4.09	-40.00	-5.34
2338.50	-40.26	-44.80	9.53	-4.99	-13.00	-27.26

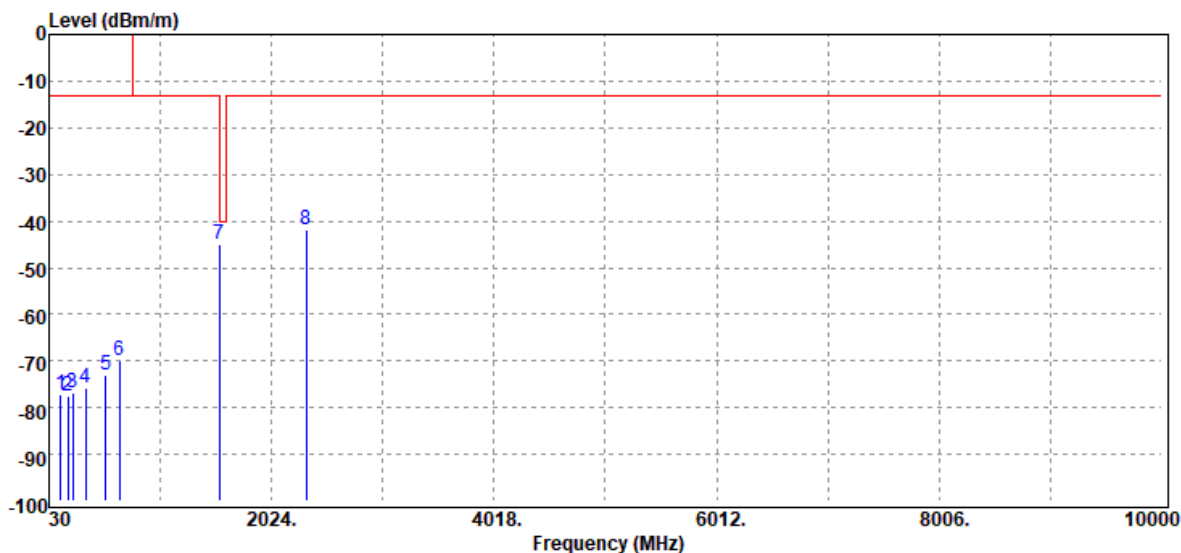
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Report Number :ER-2021-40008
 Operation Mode :LTE B13
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane
 Test Frequency :779.5 MHz

Test Site :SAC III Chamber
 Test Date :2021-04-27
 Temp./Humi. :23.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
133.79	-77.08	-73.80	-2.05	-1.23	-13.00	-64.08
201.69	-77.47	-80.40	4.37	-1.44	-13.00	-64.47
241.46	-76.98	-79.75	4.38	-1.61	-13.00	-63.98
361.74	-75.85	-78.38	4.48	-1.95	-13.00	-62.85
536.34	-73.00	-75.08	4.30	-2.22	-13.00	-60.00
659.53	-69.98	-71.26	3.66	-2.38	-13.00	-56.98
1559.00	-44.94	-50.00	9.15	-4.09	-40.00	-4.94
2338.50	-41.89	-46.43	9.53	-4.99	-13.00	-28.89

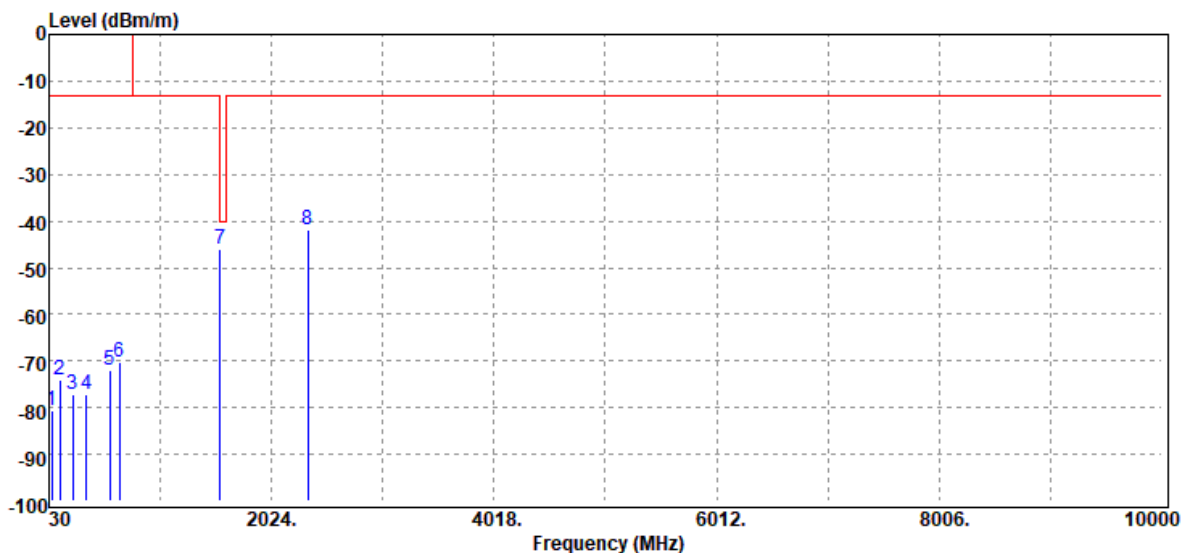
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Report Number :ER-2021-40008
 Operation Mode :LTE B13
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane
 Test Frequency :782 MHz

Test Site :SAC III Chamber
 Test Date :2021-04-27
 Temp./Humi. :23.2/62
 Antenna Pol. :VERTICAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
52.31	-80.78	-68.79	-11.28	-0.71	-13.00	-67.78
125.06	-74.15	-71.12	-1.88	-1.15	-13.00	-61.15
240.49	-77.03	-79.80	4.38	-1.61	-13.00	-64.03
362.71	-76.99	-79.50	4.46	-1.95	-13.00	-63.99
571.26	-71.81	-73.25	4.07	-2.63	-13.00	-58.81
659.53	-70.39	-71.67	3.66	-2.38	-13.00	-57.39
1564.00	-46.12	-51.20	9.18	-4.10	-40.00	-6.12
2346.00	-41.86	-46.43	9.58	-5.01	-13.00	-28.86

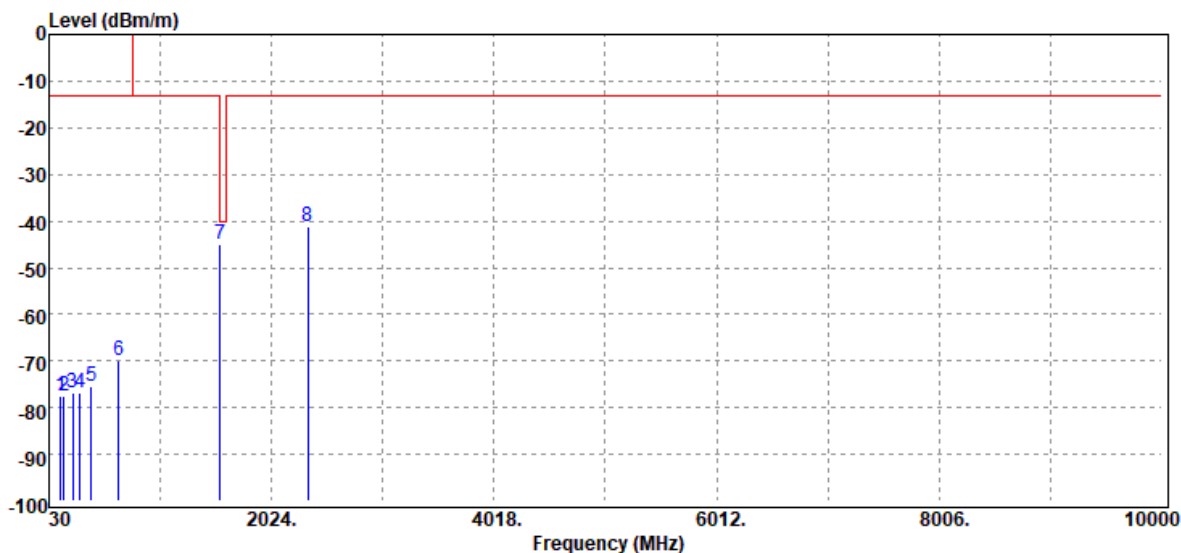
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Report Number :ER-2021-40008
 Operation Mode :LTE B13
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane
 Test Frequency :782 MHz

Test Site :SAC III Chamber
 Test Date :2021-04-27
 Temp./Humi. :23.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
131.85	-77.61	-74.32	-2.09	-1.20	-13.00	-64.61
165.80	-77.60	-75.63	-0.71	-1.26	-13.00	-64.60
243.40	-76.73	-79.49	4.37	-1.61	-13.00	-63.73
309.36	-76.91	-79.36	4.21	-1.76	-13.00	-63.91
408.30	-75.54	-78.05	4.40	-1.89	-13.00	-62.54
657.59	-69.82	-71.07	3.64	-2.39	-13.00	-56.82
1564.00	-45.09	-50.17	9.18	-4.10	-40.00	-5.09
2346.00	-41.15	-45.72	9.58	-5.01	-13.00	-28.15

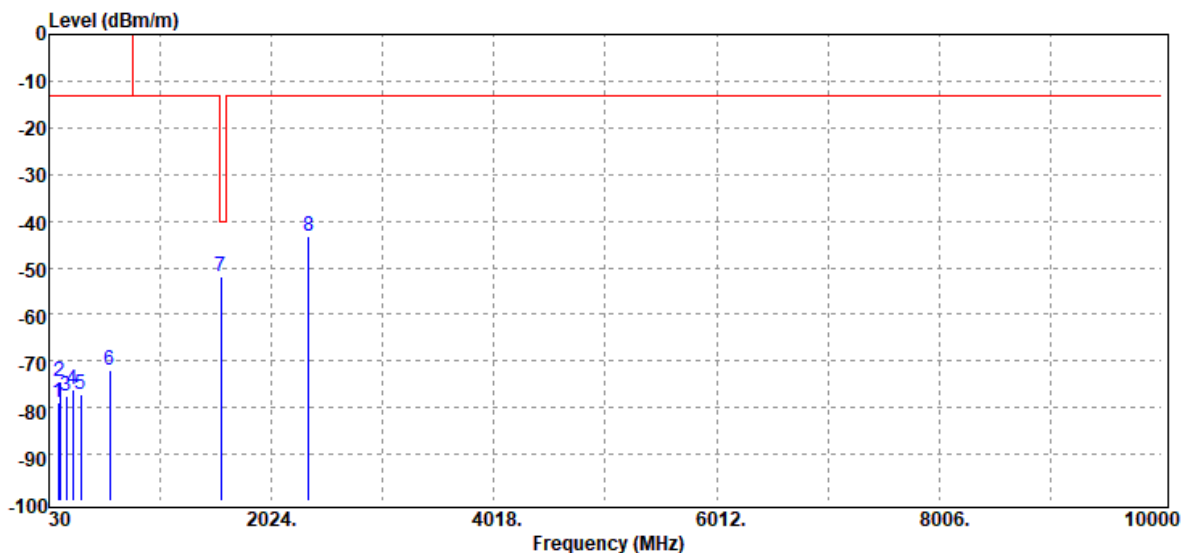
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Report Number :ER-2021-40008
 Operation Mode :LTE B13
 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Frequency :784.5 MHz

Test Site :SAC III Chamber
 Test Date :2021-04-27
 Temp./Humi. :23.2/62
 Antenna Pol. :VERTICAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
112.45	-78.95	-76.23	-1.65	-1.07	-13.00	-65.95
125.06	-74.27	-71.24	-1.88	-1.15	-13.00	-61.27
183.26	-77.62	-78.30	2.07	-1.39	-13.00	-64.62
240.49	-76.24	-79.01	4.38	-1.61	-13.00	-63.24
314.21	-77.08	-79.53	4.16	-1.71	-13.00	-64.08
578.05	-71.82	-73.09	3.96	-2.69	-13.00	-58.82
1569.00	-51.82	-56.92	9.22	-4.12	-40.00	-11.82
2353.50	-43.39	-48.01	9.64	-5.02	-13.00	-30.39

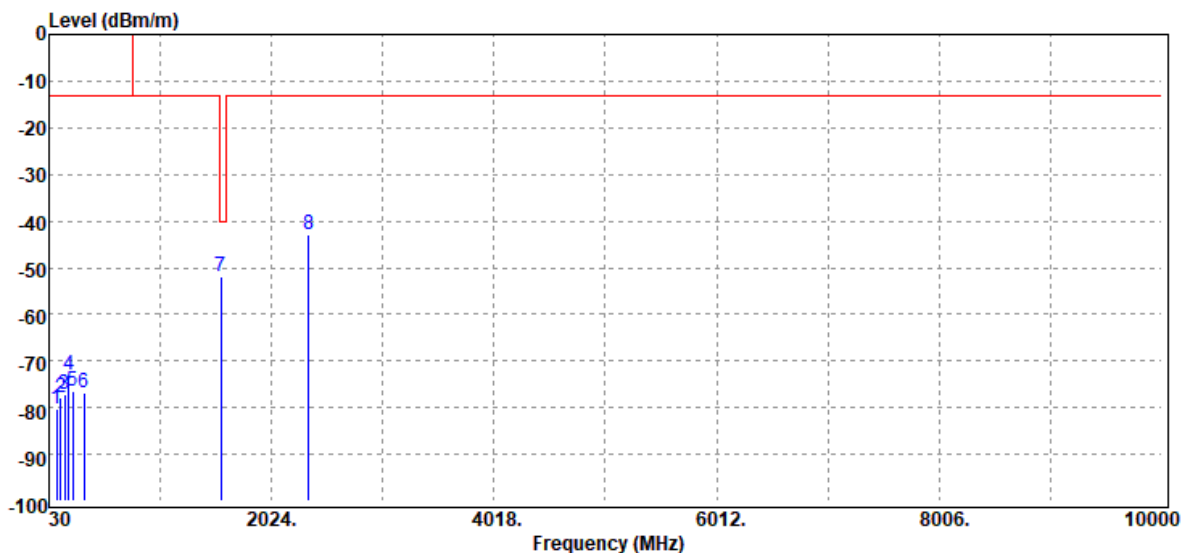
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Report Number :ER-2021-40008
 Operation Mode :LTE B13
 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Frequency :784.5 MHz

Test Site :SAC III Chamber
 Test Date :2021-04-27
 Temp./Humi. :23.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
94.99	-80.23	-78.86	-0.37	-1.00	-13.00	-67.23
132.82	-77.84	-74.66	-1.97	-1.21	-13.00	-64.84
167.74	-77.29	-75.48	-0.55	-1.26	-13.00	-64.29
207.51	-72.87	-76.03	4.62	-1.46	-13.00	-59.87
243.40	-76.50	-79.26	4.37	-1.61	-13.00	-63.50
347.19	-76.68	-79.18	4.49	-1.99	-13.00	-63.68
1569.00	-51.89	-56.99	9.22	-4.12	-40.00	-11.89
2353.50	-43.01	-47.63	9.64	-5.02	-13.00	-30.01

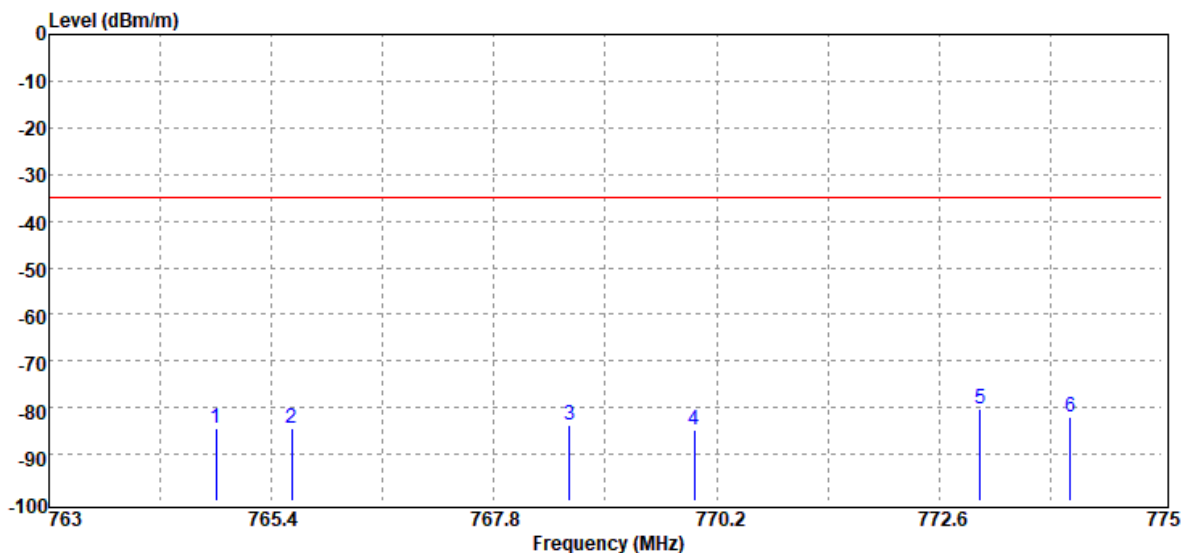
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Report Number :ER-2021-40008
 Operation Mode :LTE B13
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane
 Test Frequency :779.5 MHz

Test Site :SAC III Chamber
 Test Date :2021-04-27
 Temp./Humi. :23.2/62
 Antenna Pol. :VERTICAL
 Engineer :Nick Lin



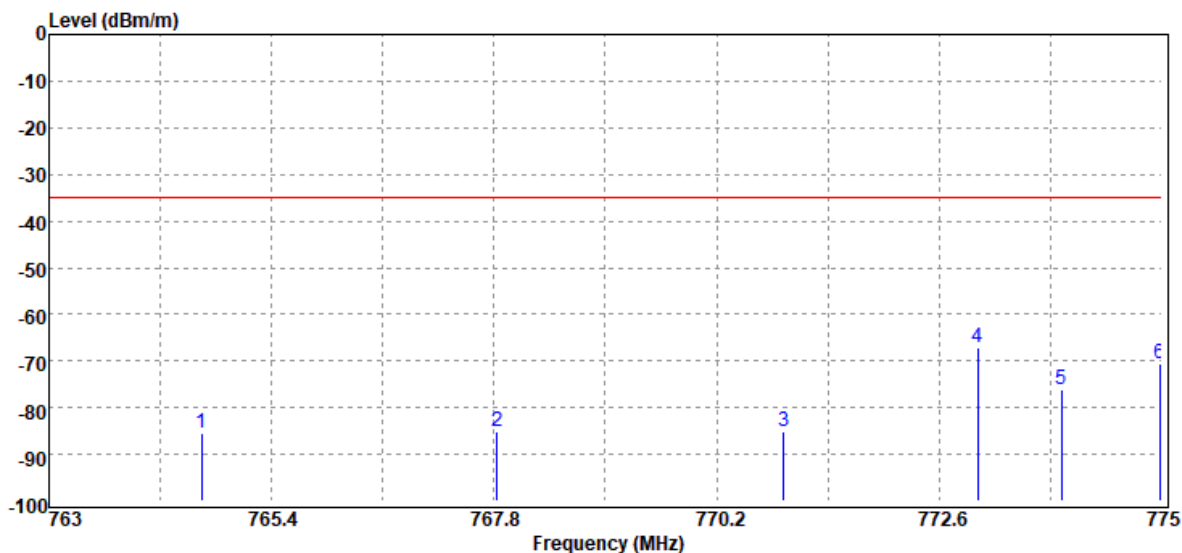
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
764.80	-84.57	-84.92	3.05	-2.70	-35.00	-49.57
765.62	-84.35	-84.66	3.06	-2.75	-35.00	-49.35
768.62	-83.59	-83.78	3.09	-2.90	-35.00	-48.59
769.96	-84.60	-84.74	3.11	-2.97	-35.00	-49.60
773.04	-80.41	-80.55	3.14	-3.00	-35.00	-45.41
774.02	-82.16	-82.30	3.15	-3.01	-35.00	-47.16

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Report Number	:ER-2021-40008	Test Site	:SAC III Chamber
Operation Mode	:LTE B13	Test Date	:2021-04-27
Test Mode	:Tx CH Low	Temp./Humi.	:23.2/62
EUT Pol	:E2 Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:779.5 MHz	Engineer	:Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
764.64	-85.46	-85.81	3.05	-2.70	-35.00	-50.46
767.84	-84.97	-85.20	3.09	-2.86	-35.00	-49.97
770.92	-85.19	-85.33	3.12	-2.98	-35.00	-50.19
773.02	-66.96	-67.10	3.14	-3.00	-35.00	-31.96
773.92	-76.04	-76.18	3.15	-3.01	-35.00	-41.04
774.98	-70.56	-70.71	3.17	-3.02	-35.00	-35.56

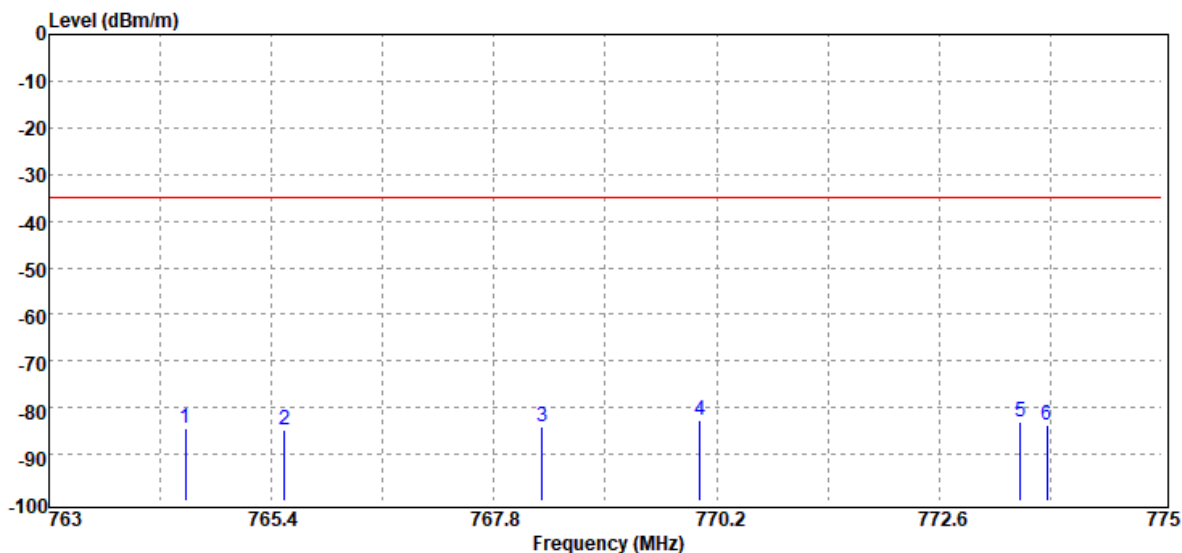
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Report Number :ER-2021-40008
 Operation Mode :LTE B13
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane
 Test Frequency :782 MHz

Test Site :SAC III Chamber
 Test Date :2021-04-27
 Temp./Humi. :23.2/62
 Antenna Pol. :VERTICAL
 Engineer :Nick Lin



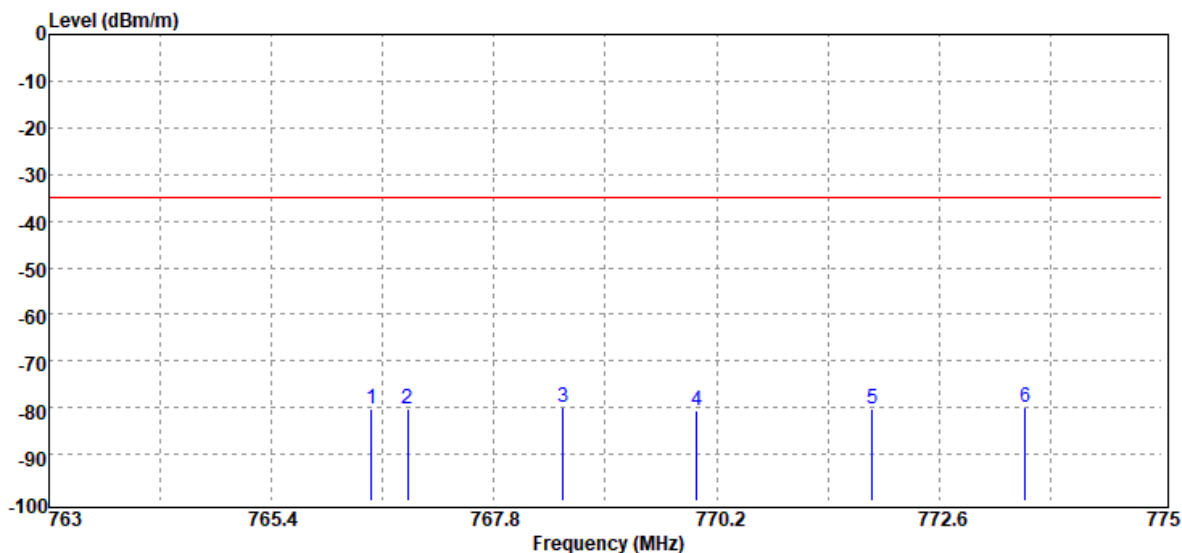
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
764.48	-84.44	-84.80	3.05	-2.69	-35.00	-49.44
765.54	-84.64	-84.96	3.06	-2.74	-35.00	-49.64
768.32	-84.19	-84.40	3.09	-2.88	-35.00	-49.19
770.02	-82.76	-82.90	3.11	-2.97	-35.00	-47.76
773.48	-83.20	-83.35	3.15	-3.00	-35.00	-48.20
773.76	-83.86	-84.00	3.15	-3.01	-35.00	-48.86

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Report Number	:ER-2021-40008	Test Site	:SAC III Chamber
Operation Mode	:LTE B13	Test Date	:2021-04-27
Test Mode	:Tx CH Mid	Temp./Humi.	:23.2/62
EUT Pol	:E2 Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:782 MHz	Engineer	:Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
766.48	-80.37	-80.65	3.07	-2.79	-35.00	-45.37
766.86	-80.44	-80.70	3.07	-2.81	-35.00	-45.44
768.54	-79.81	-80.00	3.09	-2.90	-35.00	-44.81
769.98	-80.46	-80.60	3.11	-2.97	-35.00	-45.46
771.88	-80.17	-80.31	3.13	-2.99	-35.00	-45.17
773.52	-80.08	-80.23	3.15	-3.00	-35.00	-45.08

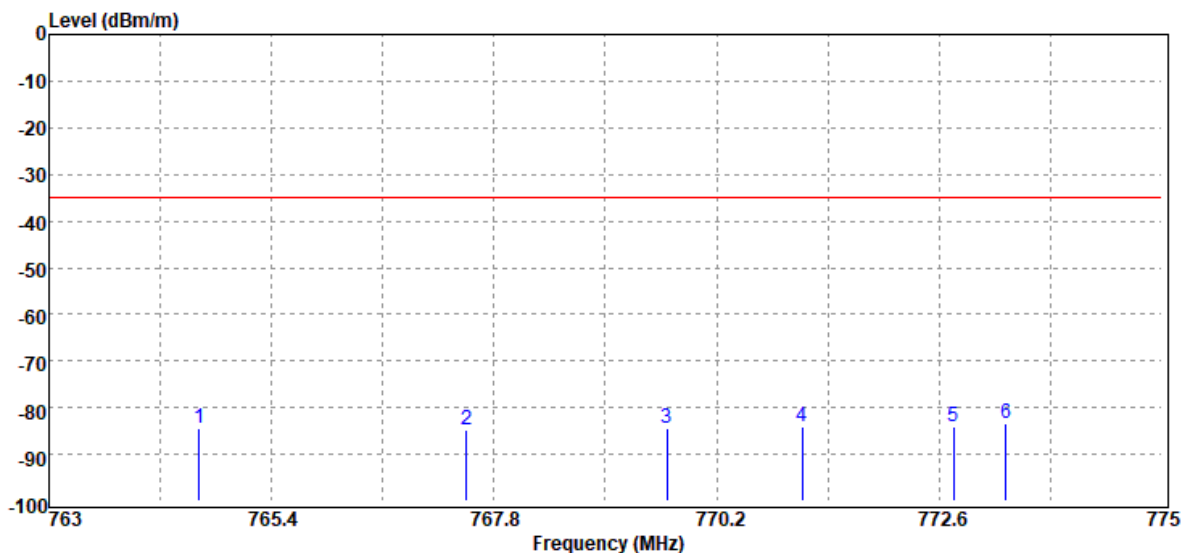
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Report Number :ER-2021-40008
 Operation Mode :LTE B13
 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Frequency :784.5 MHz

Test Site :SAC III Chamber
 Test Date :2021-04-27
 Temp./Humi. :23.2/62
 Antenna Pol. :VERTICAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
764.62	-84.52	-84.88	3.05	-2.69	-35.00	-49.52
767.50	-84.90	-85.14	3.08	-2.84	-35.00	-49.90
769.66	-84.40	-84.56	3.11	-2.95	-35.00	-49.40
771.12	-84.23	-84.37	3.12	-2.98	-35.00	-49.23
772.76	-84.05	-84.19	3.14	-3.00	-35.00	-49.05
773.32	-83.51	-83.66	3.15	-3.00	-35.00	-48.51

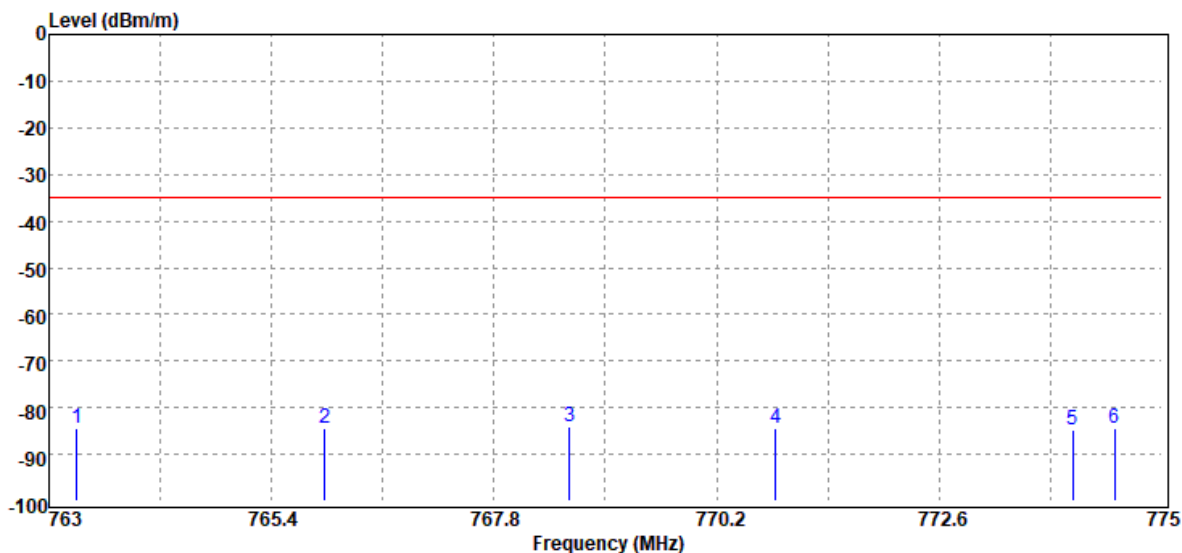
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Report Number :ER-2021-40008
 Operation Mode :LTE B13
 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Frequency :784.5 MHz

Test Site :SAC III Chamber
 Test Date :2021-04-27
 Temp./Humi. :23.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick Lin



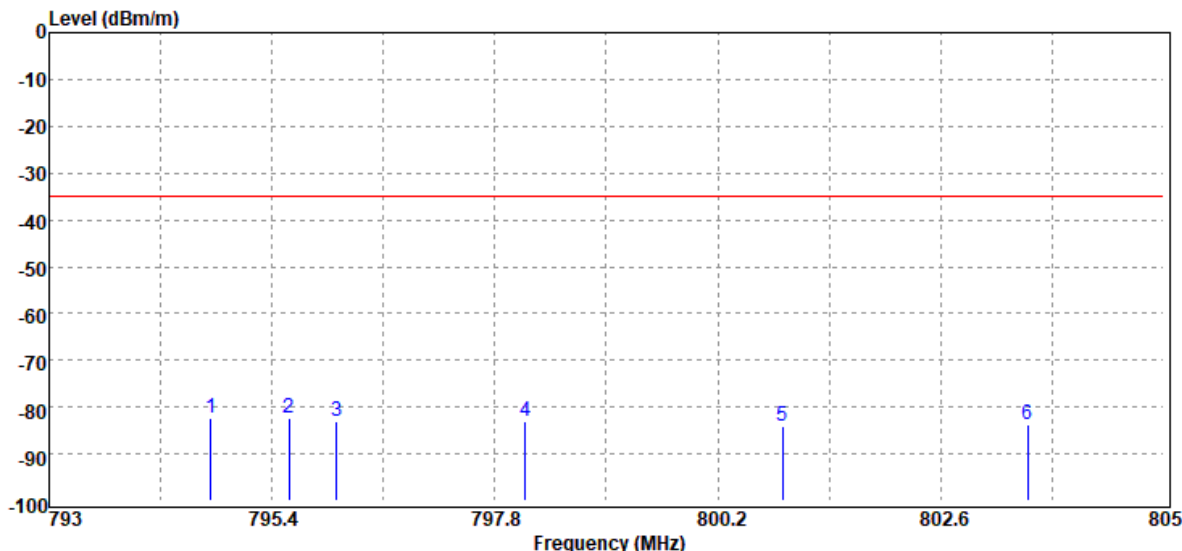
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
763.30	-84.58	-84.98	3.03	-2.63	-35.00	-49.58
765.98	-84.43	-84.73	3.06	-2.76	-35.00	-49.43
768.62	-84.17	-84.36	3.09	-2.90	-35.00	-49.17
770.84	-84.58	-84.72	3.12	-2.98	-35.00	-49.58
774.04	-84.60	-84.75	3.16	-3.01	-35.00	-49.60
774.50	-84.54	-84.69	3.16	-3.01	-35.00	-49.54

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Report Number	:ER-2021-40008	Test Site	:SAC III Chamber
Operation Mode	:LTE B13	Test Date	:2021-04-27
Test Mode	:Tx CH Low	Temp./Humi.	:23.2/62
EUT Pol	:E2 Plane	Antenna Pol.	:VERTICAL
Test Frequency	:779.5 MHz	Engineer	:Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
794.74	-82.38	-83.13	3.88	-3.13	-35.00	-47.38
795.58	-82.34	-83.12	3.91	-3.13	-35.00	-47.34
796.10	-82.88	-83.67	3.92	-3.13	-35.00	-47.88
798.12	-83.12	-83.97	3.98	-3.13	-35.00	-48.12
800.90	-84.06	-85.01	4.07	-3.12	-35.00	-49.06
803.54	-83.57	-84.62	4.15	-3.10	-35.00	-48.57

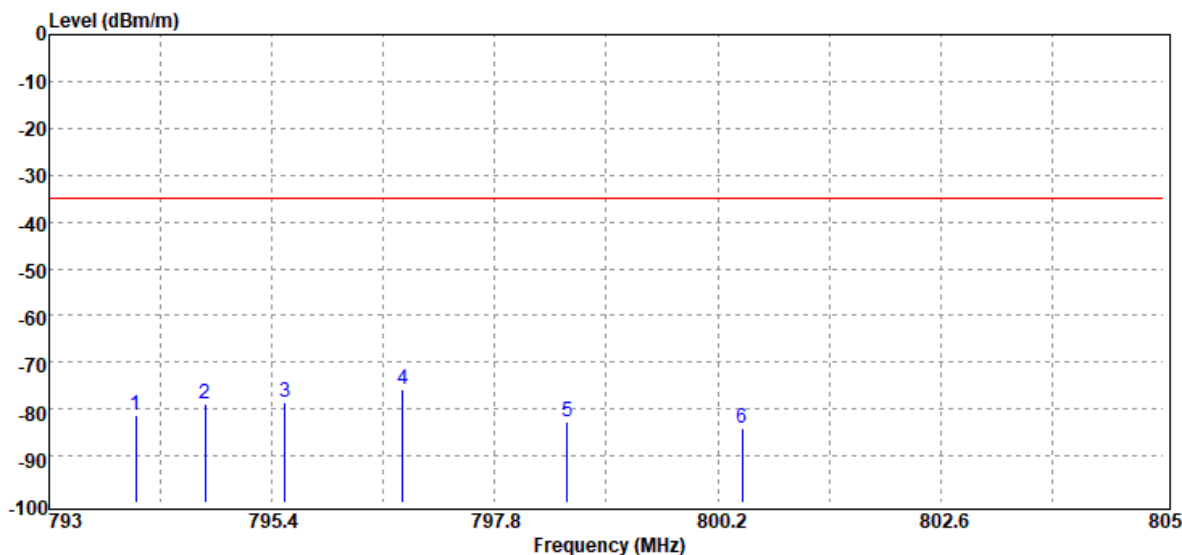
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Report Number :ER-2021-40008
 Operation Mode :LTE B13
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane
 Test Frequency :779.5 MHz

Test Site :SAC III Chamber
 Test Date :2021-04-27
 Temp./Humi. :23.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
793.94	-81.18	-81.90	3.85	-3.13	-35.00	-46.18
794.68	-78.89	-79.64	3.88	-3.13	-35.00	-43.89
795.54	-78.49	-79.26	3.90	-3.13	-35.00	-43.49
796.80	-75.86	-76.67	3.94	-3.13	-35.00	-40.86
798.58	-82.69	-83.56	4.00	-3.13	-35.00	-47.69
800.46	-84.13	-85.06	4.06	-3.13	-35.00	-49.13

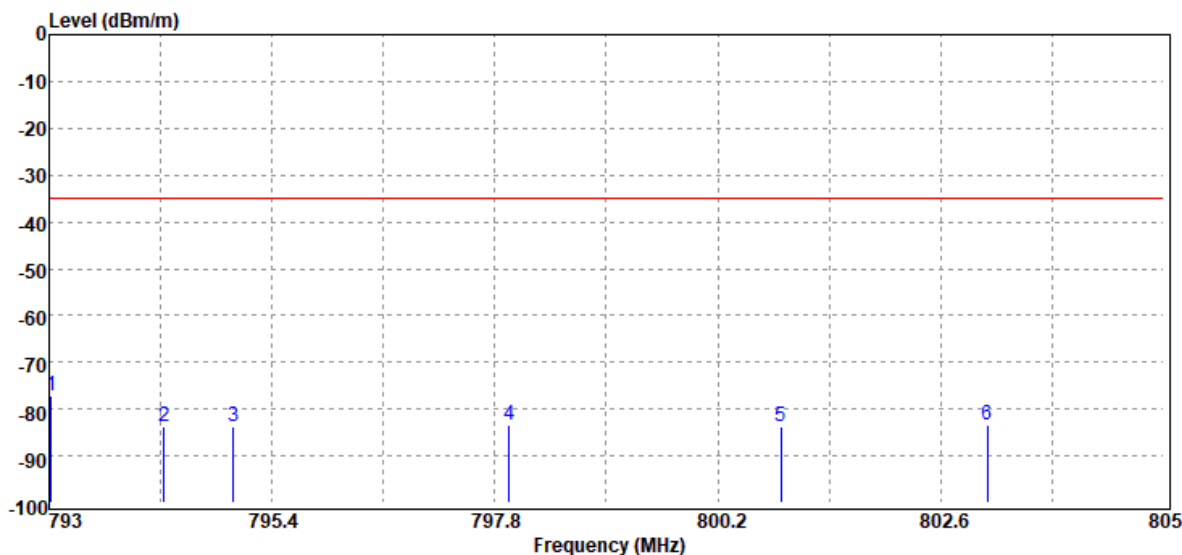
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Report Number :ER-2021-40008
 Operation Mode :LTE B13
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane
 Test Frequency :782 MHz

Test Site :SAC III Chamber
 Test Date :2021-04-27
 Temp./Humi. :23.2/62
 Antenna Pol. :VERTICAL
 Engineer :Nick Lin



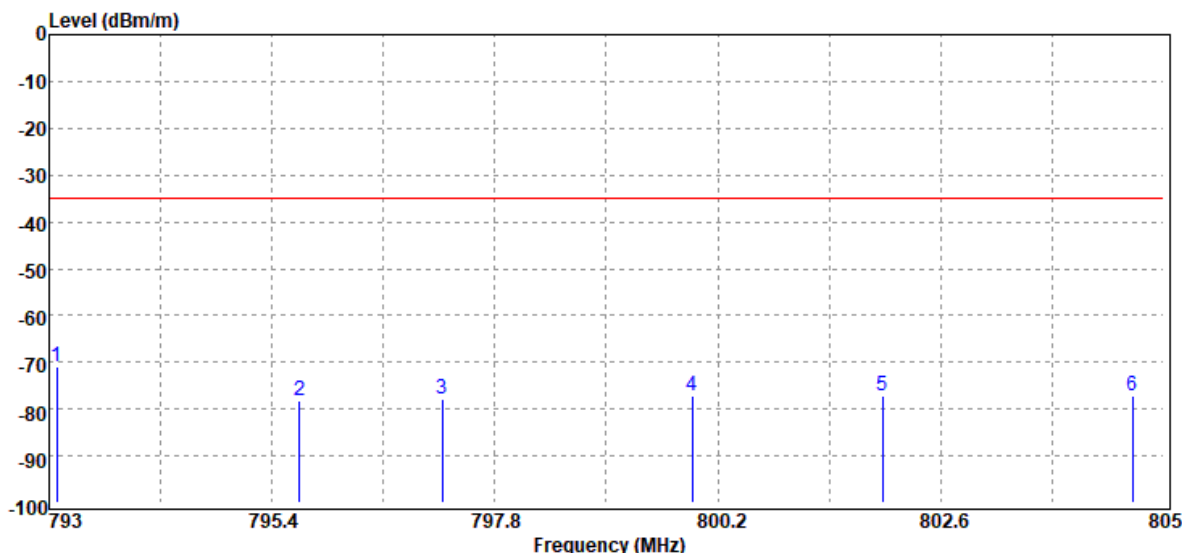
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
793.02	-77.07	-77.77	3.83	-3.13	-35.00	-42.07
794.24	-83.86	-84.59	3.86	-3.13	-35.00	-48.86
794.98	-83.74	-84.50	3.89	-3.13	-35.00	-48.74
797.96	-83.51	-84.36	3.98	-3.13	-35.00	-48.51
800.88	-83.62	-84.57	4.07	-3.12	-35.00	-48.62
803.10	-83.47	-84.50	4.14	-3.11	-35.00	-48.47

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Report Number	:ER-2021-40008	Test Site	:SAC III Chamber
Operation Mode	:LTE B13	Test Date	:2021-04-27
Test Mode	:Tx CH Mid	Temp./Humi.	:23.2/62
EUT Pol	:E2 Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:782 MHz	Engineer	:Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
793.08	-70.81	-71.51	3.83	-3.13	-35.00	-35.81
795.70	-78.05	-78.83	3.91	-3.13	-35.00	-43.05
797.24	-77.93	-78.76	3.96	-3.13	-35.00	-42.93
799.92	-77.27	-78.18	4.04	-3.13	-35.00	-42.27
801.98	-77.33	-78.31	4.10	-3.12	-35.00	-42.33
804.66	-77.06	-78.15	4.19	-3.10	-35.00	-42.06

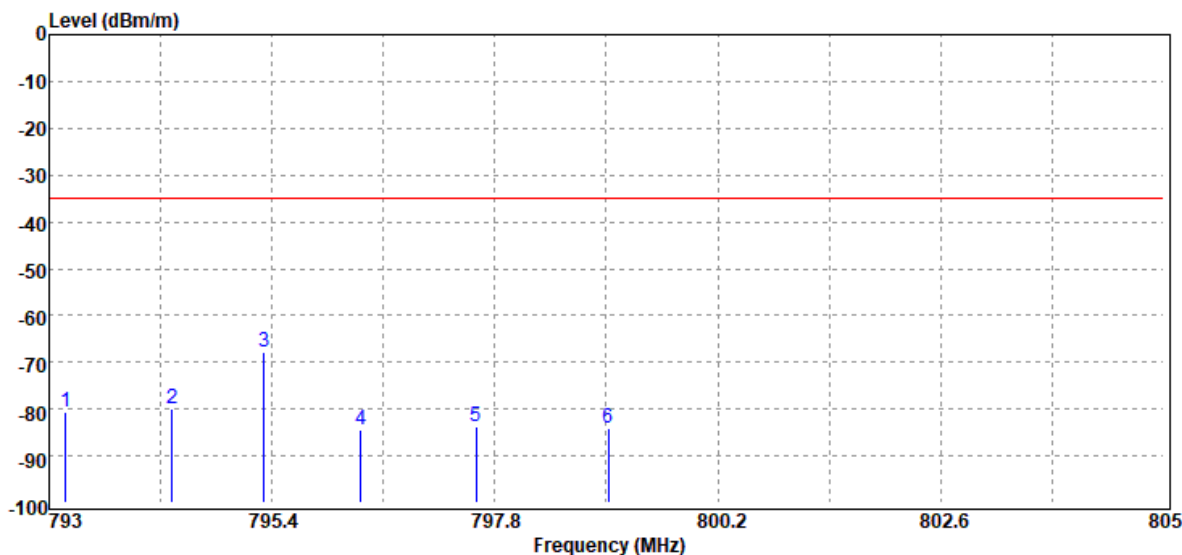
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Report Number :ER-2021-40008
 Operation Mode :LTE B13
 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Frequency :784.5 MHz

Test Site :966 SEMI_Chamber
 Test Date :2021-04-27
 Temp./Humi. :23.2/62
 Antenna Pol. :VERTICAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
793.18	-80.70	-81.40	3.83	-3.13	-35.00	-45.70
794.32	-79.76	-80.50	3.87	-3.13	-35.00	-44.76
795.32	-67.99	-68.76	3.90	-3.13	-35.00	-32.99
796.36	-84.40	-85.20	3.93	-3.13	-35.00	-49.40
797.60	-83.81	-84.65	3.97	-3.13	-35.00	-48.81
799.02	-84.17	-85.05	4.01	-3.13	-35.00	-49.17

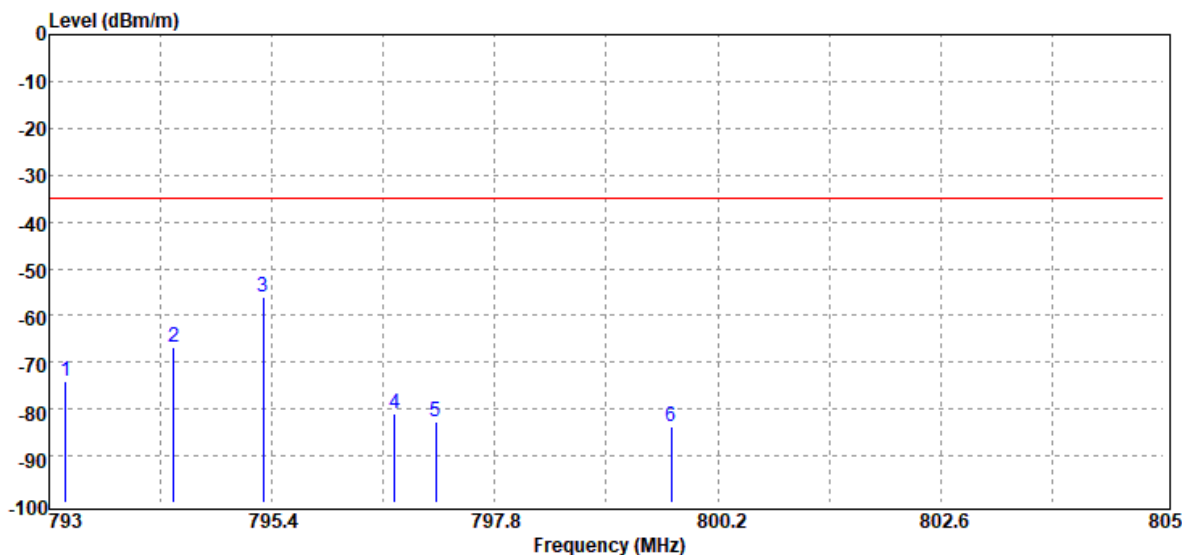
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Report Number :ER-2021-40008
 Operation Mode :LTE B13
 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Frequency :784.5 MHz

Test Site :966 SEMI_Chamber
 Test Date :2021-04-27
 Temp./Humi. :23.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
793.18	-73.94	-74.64	3.83	-3.13	-35.00	-38.94
794.34	-66.89	-67.63	3.87	-3.13	-35.00	-31.89
795.30	-56.00	-56.77	3.90	-3.13	-35.00	-21.00
796.72	-81.14	-81.95	3.94	-3.13	-35.00	-46.14
797.16	-82.55	-83.37	3.95	-3.13	-35.00	-47.55
799.70	-83.63	-84.53	4.03	-3.13	-35.00	-48.63

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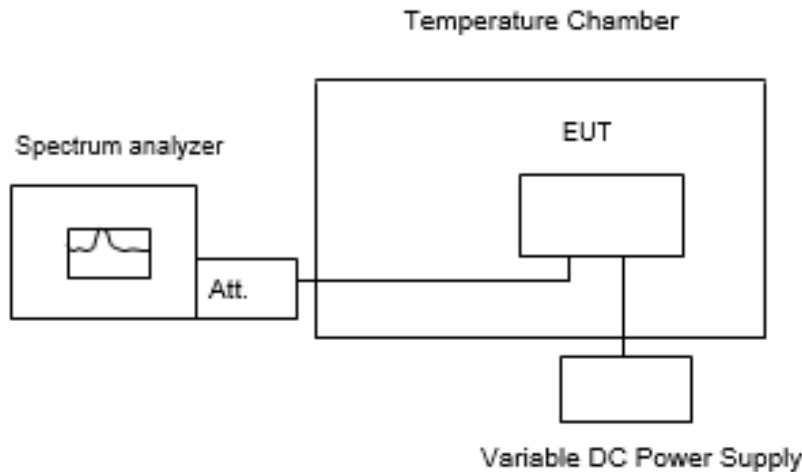
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10 FREQUENCY STABILITY MEASUREMENT

10.1 Standard Applicabl

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

10.2 Test Set-up



Note: Measurement setup for testing on Antenna connector

10.3 Measurement Procedure

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

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

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

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10.4 Measurement Equipment Used

Conducted Emission Test Site: Conducted 4					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	07/23/2020	07/22/2021
Radio Communication Analyzer	Anritsu	MT8815B	6200711454	04/07/2021	04/06/2022
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-JSPF412-020	12/16/2020	12/15/2021
Temperature Chamber	TERCHY	MHG-120LF	911009	05/20/2020	05/19/2021
DC Power Supply	Agilent	E3640A	MY52410006	12/17/2020	12/16/2021

10.5 Measurement Result

Note: The battery is rated 3.7V dc.

WCDMA II Mid Channel 1880 MHz				
Limit +/- 2.5 ppm				
Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
4.07	20	1880.000006	6	4700
3.7	20	1880.00001	10	4700
3.33	20	1879.999991	-9	4700
2.7 (End point)	20	1880.000008	8	4700
FREQUENCY ERROR vs. Temp.				
3.7	50	1879.99999	-10	4700
3.7	40	1879.999991	-9	4700
3.7	30	1880.000008	8	4700
3.7	20	1879.999993	-7	4700
3.7	10	1879.999995	-5	4700
3.7	0	1879.999999	-1	4700
3.7	-10	1879.999996	-4	4700
3.7	-20	1879.999996	-4	4700
3.7	-30	1879.999994	-6	4700

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WCDMA IV Mid Channel 1732.6 MHz				
Limit +/- 2.5 ppm				
Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
4.07	20	1732.599989	-11	4331
3.7	20	1732.599999	-1	4331
	20	1732.599998	-2	4331
2.7 (End point)	20	1732.600002	2	4331
FREQUENCY ERROR vs. Temp.				
3.7	50	1732.600003	3	4331
3.7	40	1732.600004	4	4331
3.7	30	1732.599997	-3	4331
3.7	20	1732.599999	-1	4331
3.7	10	1732.600005	5	4331
3.7	0	1732.599996	-4	4331
3.7	-10	1732.599992	-8	4331
3.7	-20	1732.600001	10	4331
3.7	-30	1732.600009	9	4331
WCDMA V Mid Channel 836.6 MHz				
Limit +/- 2.5 ppm				
Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
4.07	20	836.599999	-1	2091
3.7	20	836.59999	-10	2091
3.33	20	836.600005	5	2091
2.7 (End point)	20	836.599991	-9	2091
FREQUENCY ERROR vs. Temp.				
3.7	50	836.600009	9	2091
3.7	40	836.600006	6	2091
3.7	30	836.599993	-7	2091
3.7	20	836.599999	-1	2091
3.7	10	836.599999	-1	2091
3.7	0	836.600002	2	2091
3.7	-10	836.600004	4	2091
3.7	-20	836.6	0	2091
3.7	-30	836.599996	-4	2091

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Reference Freq.:	LTE B2 Mid Channel		1880	MHz 10M QPSK CH 18900
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
4.07	25	1880.000004	4	4700
3.7	25	1879.999998	-2	4700
3.33	25	1879.999999	-1	4700
2.7 (End Point)	25	1880.000003	3	4700
Freq. ERROR vs. Temp.				
3.7	-30	1880.000004	4	4700
3.7	-20	1880.000007	7	4700
3.7	-10	1880.000000	0	4700
3.7	0	1880.000011	11	4700
3.7	10	1880.000005	5	4700
3.7	20	1880.000004	4	4700
3.7	30	1880.000008	8	4700
3.7	40	1879.999992	-8	4700
3.7	50	1880.000011	11	4700
Reference Freq.:	LTE B4 Mid Channel		1732.5	MHz 10M QPSK CH 20175
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
4.07	25	1732.500010	10	4331
3.7	25	1732.499992	-8	4331
3.33	25	1732.500010	10	4331
2.7 (End Point)	25	1732.500006	6	4331
Freq. ERROR vs. Temp.				
3.7	-30	1732.499998	-2	4331
3.7	-20	1732.499993	-7	4331
3.7	-10	1732.499992	-8	4331
3.7	0	1732.500011	11	4331
3.7	10	1732.499999	-1	4331
3.7	20	1732.500010	10	4331
3.7	30	1732.499993	-7	4331
3.7	40	1732.499992	-8	4331
3.7	50	1732.499998	-2	4331

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Reference Freq.:	LTE B5 Mid Channel		836.5	MHz 10M QPSK CH 20525
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
4.07	25	836.500006	6	2091
3.7	25	836.499989	-11	2091
3.33	25	836.499998	-2	2091
2.7	25	836.500005	5	2091
(End Point)				
Freq. ERROR vs. Temp.				
3.7	-30	836.500002	2	2091
3.7	-20	836.500009	9	2091
3.7	-10	836.500002	2	2091
3.7	0	836.499994	-6	2091
3.7	10	836.500006	6	2091
3.7	20	836.499995	-5	2091
3.7	30	836.500006	6	2091
3.7	40	836.500000	0	2091
3.7	50	836.499992	-8	2091
Reference Freq.:	LTE B12 Mid Channel		707.5	MHz 10M QPSK CH 23095
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
4.07	25	707.500008	8	1769
3.7	25	707.499992	-8	1769
3.33	25	707.499997	-3	1769
2.7	25	707.500002	2	1769
(End Point)				
Freq. ERROR vs. Temp.				
3.7	-30	707.500003	3	1769
3.7	-20	707.499995	-5	1769
3.7	-10	707.499999	-1	1769
3.7	0	707.500002	2	1769
3.7	10	707.499998	-2	1769
3.7	20	707.499991	-9	1769
3.7	30	707.499992	-8	1769
3.7	40	707.500006	6	1769
3.7	50	707.500000	0	1769

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Reference Freq.:	LTE B13 Mid Channel		782	MHz 10M QPSK CH 23230
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
4.07	25	782.000000	0	1955
3.7	25	781.999997	-3	1955
3.33	25	782.000006	6	1955
2.7	25	782.000004	4	1955
(End Point)				
Freq. ERROR vs. Temp.				
3.7	-30	782.000003	3	1955
3.7	-20	782.000004	4	1955
3.7	-10	782.000010	10	1955
3.7	0	781.999992	-8	1955
3.7	10	782.000009	9	1955
3.7	20	782.000006	6	1955
3.7	30	782.000004	4	1955
3.7	40	781.999998	-2	1955
3.7	50	782.000002	2	1955

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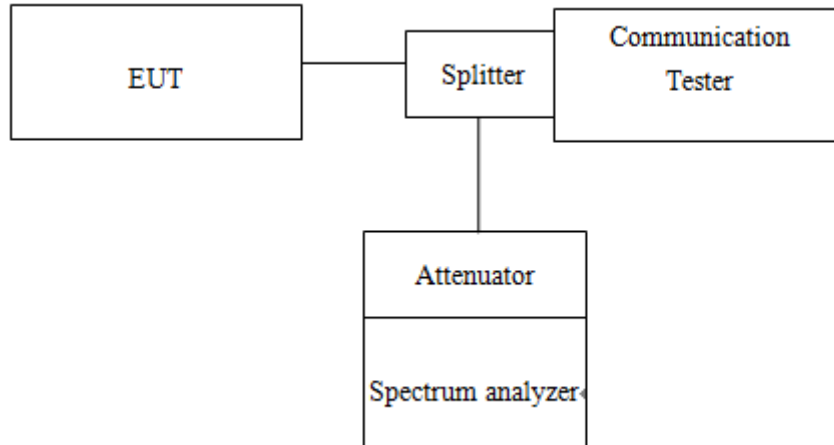
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11 PEAK TO AVERAGE RATIO

11.1 Standard Applicable

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

11.2 Test SET-UP



11.3 Measurement Procedure

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

11.4 Measurement Equipment Used

Conducted Emission Test Site: Conducted 4					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	07/23/2020	07/22/2021
Radio Communication Analyer	Anritsu	MT8820C	6200995019	03/28/2021	03/27/2022
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-JSPF412-020	12/16/2020	12/15/2021
Temperature Chamber	TERCHY	MHG-120LF	911009	05/20/2020	05/19/2021
DC Power Supply	Agilent	E3640A	MY52410006	12/17/2020	12/16/2021

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11.5 Measurement Result

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA II	HSDPA II	HSUPA II
1852.4	9262	2.96	4.40	3.80
1880	9400	2.98	3.81	4.32
1907.6	9538	3.06	3.86	4.10
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA IV	HSDPA IV	HSUPA IV
1712.4	1312	2.96	3.96	4.68
1732.6	1413	3.00	4.43	4.08
1752.6	1513	2.87	3.89	3.95
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA V	HSDPA V	HSUPA V
826.4	4132	2.97	4.18	3.88
836.6	4183	2.95	3.69	4.03
846.6	4233	2.93	4.37	4.03

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LTE BAND 2							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1850.7	18607	5.34	13	1851.5	18615	5.69	13
1880.0	18900	5.75	13	1880.0	18900	5.59	13
1909.3	19193	5.67	13	1908.5	19185	5.78	13
LTE BAND 2							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1852.5	18625	5.47	13	1855.0	18650	5.24	13
1880.0	18900	5.54	13	1880.0	18900	5.17	13
1907.5	19175	5.53	13	1905.0	19150	5.19	13
LTE BAND 2							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1857.5	18675	5.53	13	1860.0	18700	5.12	13
1880.0	18900	5.18	13	1880.0	18900	5.70	13
1902.5	19125	5.23	13	1900.0	19100	5.62	13

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LTE BAND 4							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1710.7	19957	5.52	13	1711.5	19965	5.76	13
1732.5	20175	5.64	13	1732.5	20175	5.77	13
1754.3	20393	4.96	13	1753.5	20385	5.01	13

LTE BAND 4							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1712.5	19975	5.31	13	1715.0	20000	5.44	13
1732.5	20175	5.36	13	1732.5	20175	5.55	13
1752.5	20375	5.57	13	1750.0	20350	5.15	13

LTE BAND 4							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1717.5	20025	5.81	13	1720.0	20050	5.53	13
1732.5	20175	5.87	13	1732.5	20175	5.21	13
1747.5	20325	5.06	13	1745.0	20300	5.31	13

LTE BAND 5							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
824.7	20407	5.76	13	825.5	20415	5.97	13
836.5	20525	5.83	13	836.5	20525	5.80	13
848.3	20643	5.27	13	847.5	20635	5.56	13

LTE BAND 5							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
826.5	20425	5.65	13	829.0	20450	5.75	13
836.5	20525	5.36	13	836.5	20525	5.80	13
846.5	20625	5.61	13	844.0	20600	5.89	13

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LTE BAND 12							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
699.7	23017	5.19	13	700.5	23025	5.26	13
707.5	23095	5.16	13	707.5	23095	5.49	13
715.3	23173	5.21	13	714.5	23165	5.47	13

LTE BAND 12							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
701.5	23035	5.08	13	704.0	23060	5.19	13
707.5	23095	5.47	13	707.5	23095	5.96	13
713.5	23155	5.03	13	711.0	23130	4.83	13

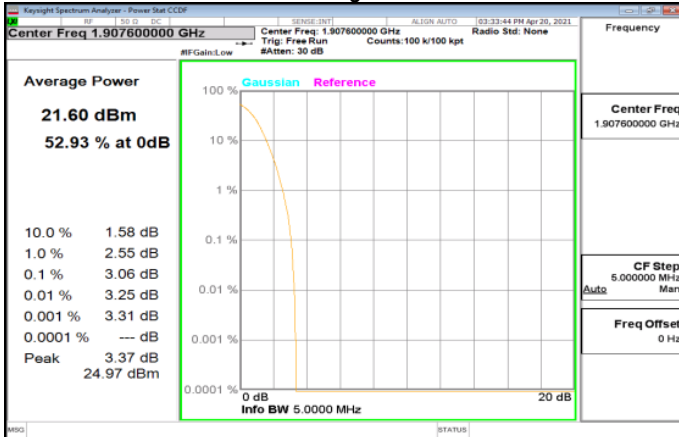
LTE BAND 13							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
779.5	23205	4.90	13	782.0	23230	4.87	13
782.0	23230	5.36	13				
784.5	23255	5.34	13				

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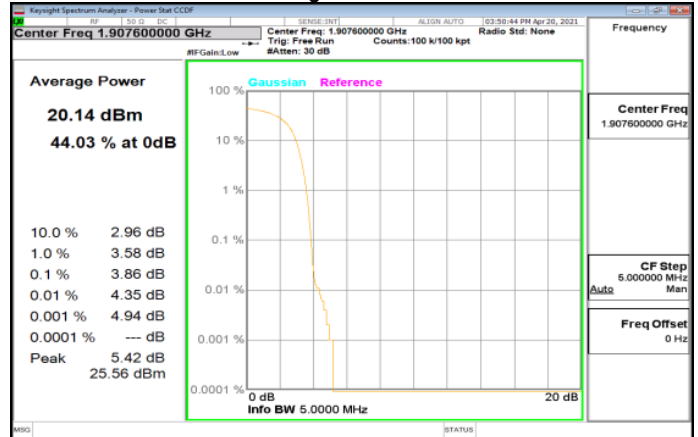
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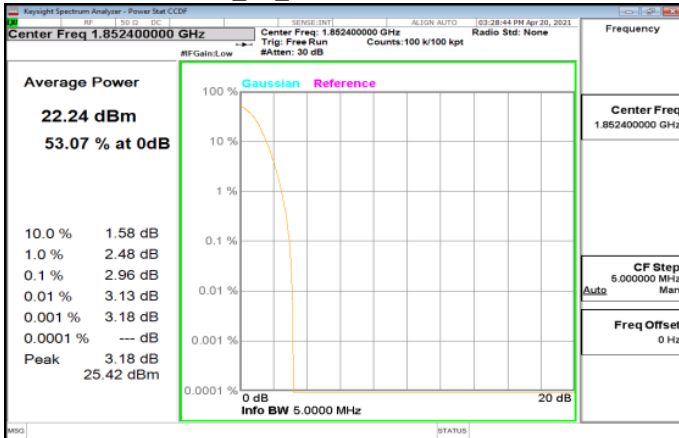
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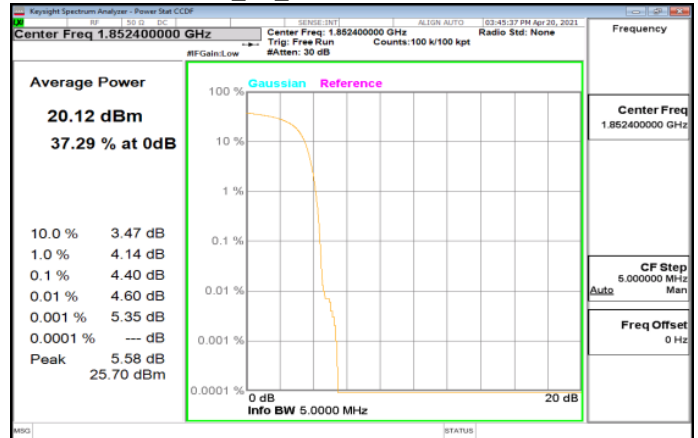
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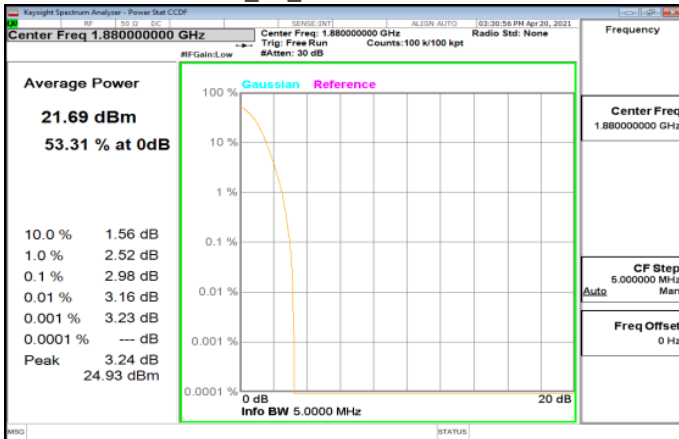
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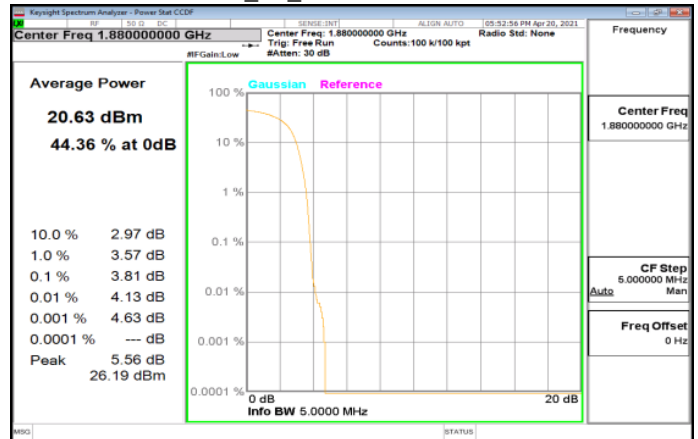
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WCDMA_B2_MidCH9400-1880



HSDPA_B2_MidCH9400-1880

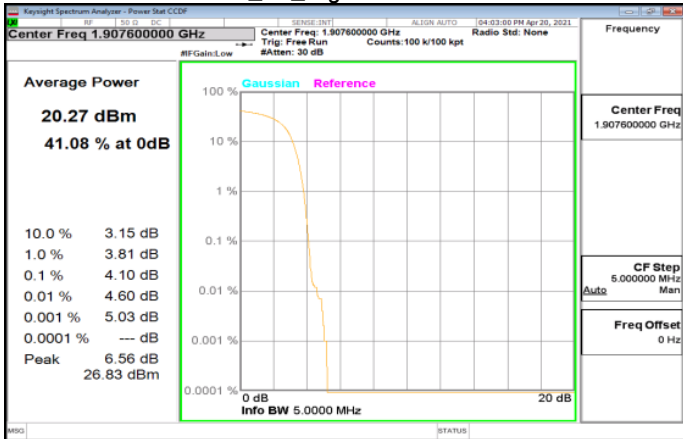


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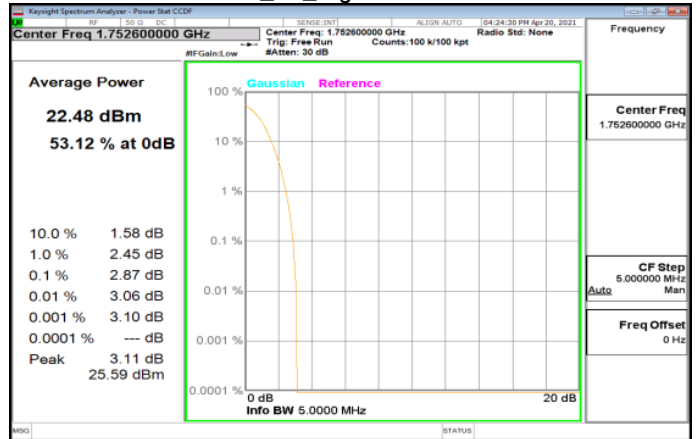
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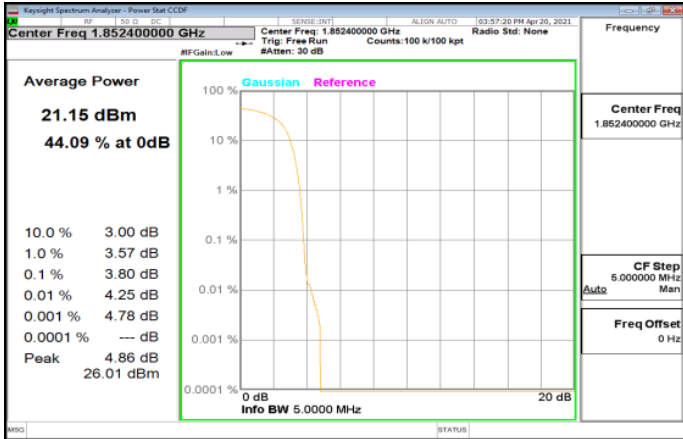
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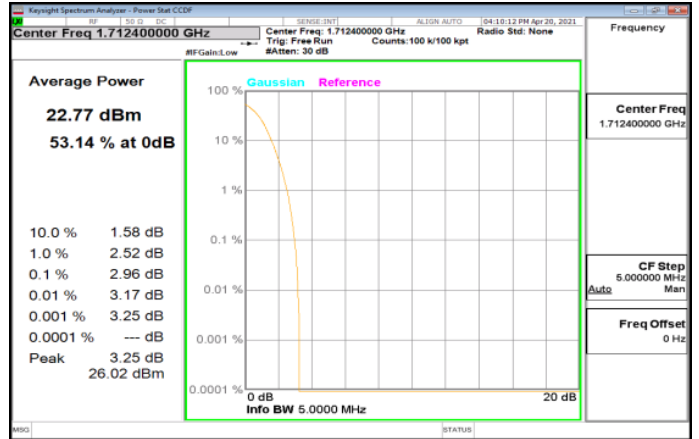
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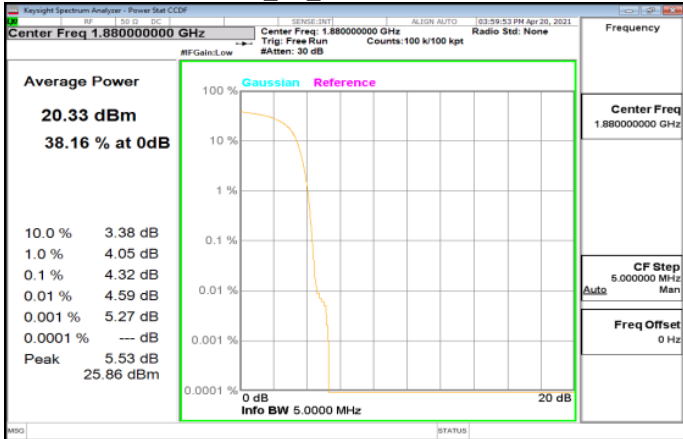
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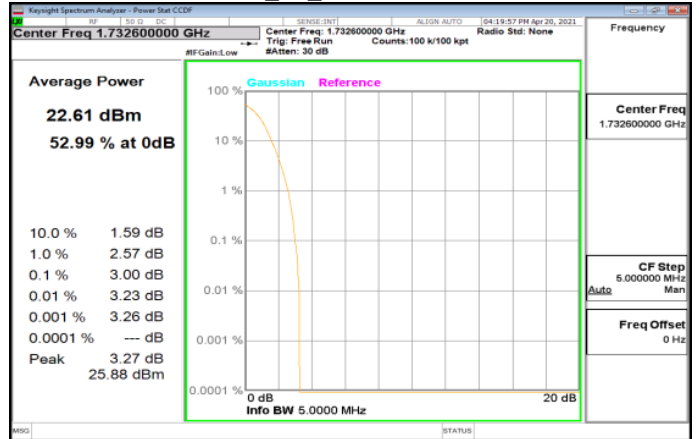
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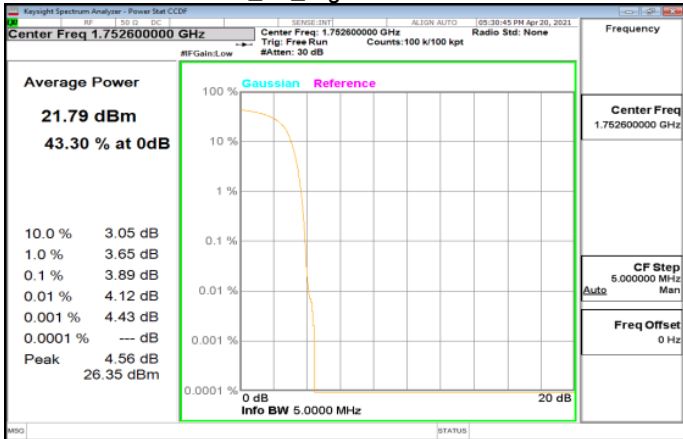


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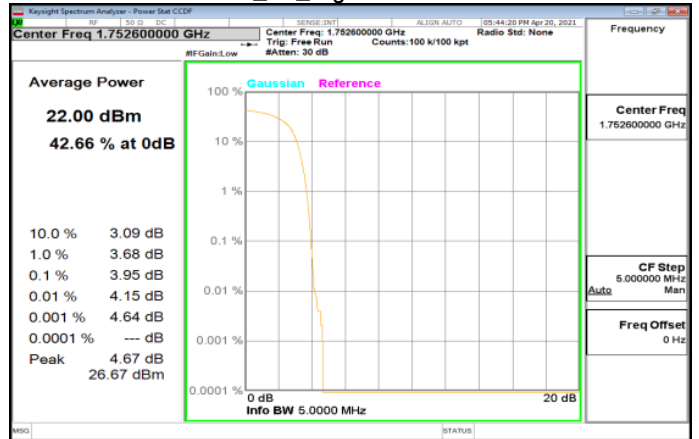
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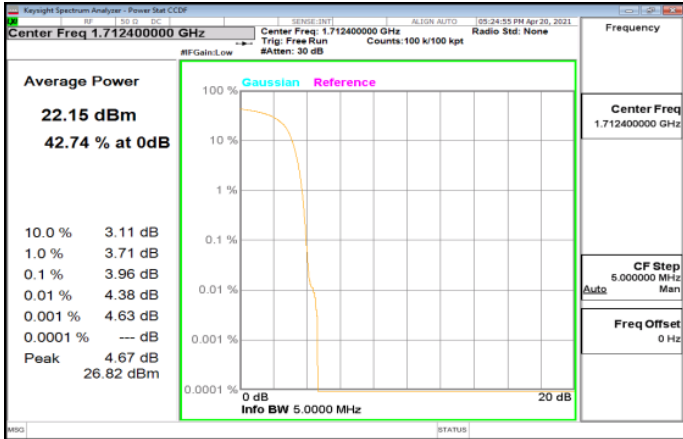
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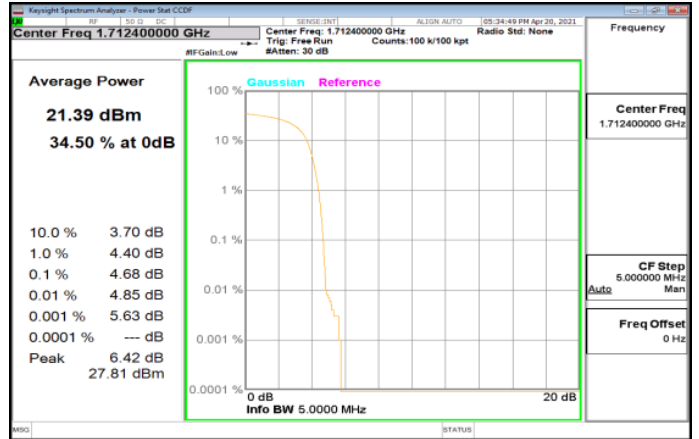
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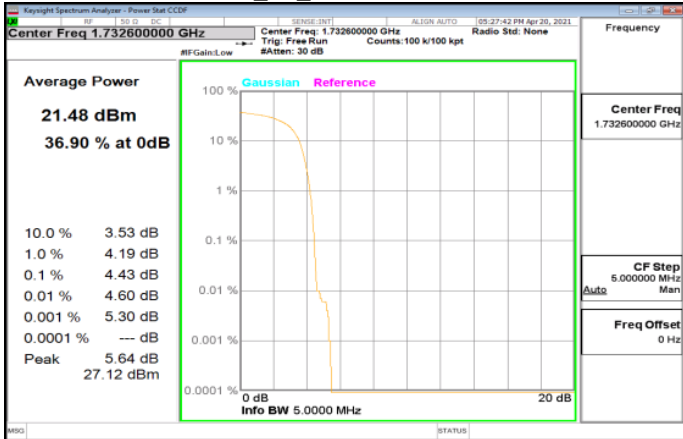
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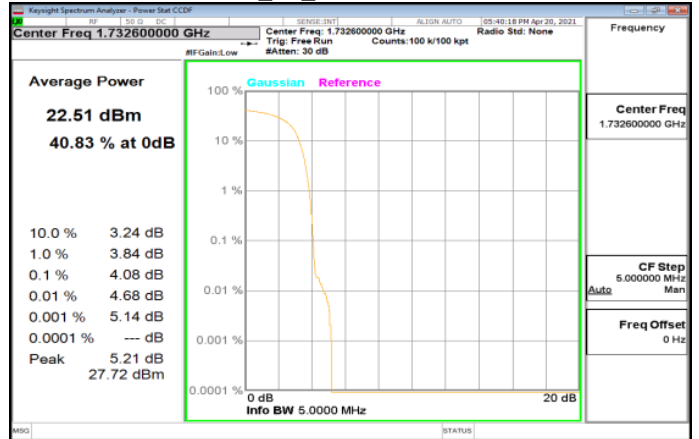
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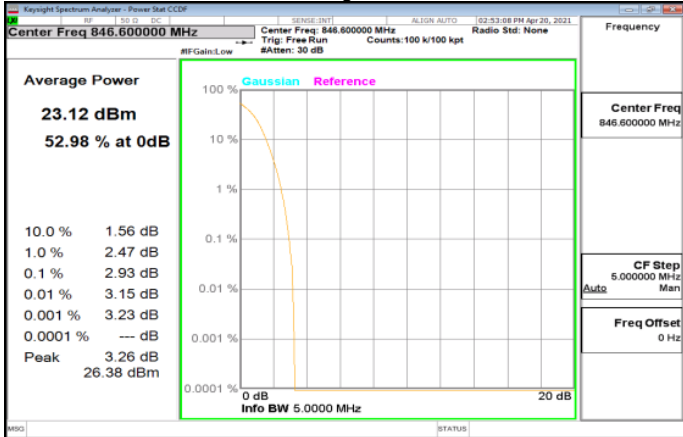


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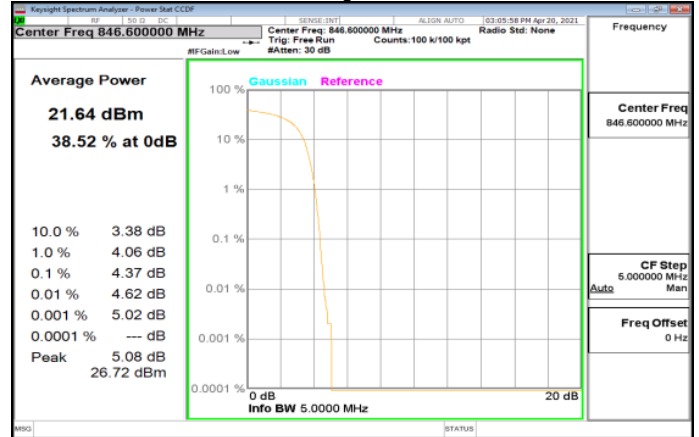
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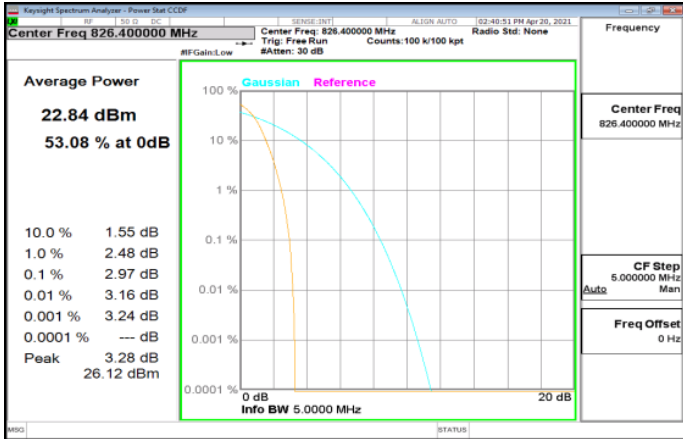
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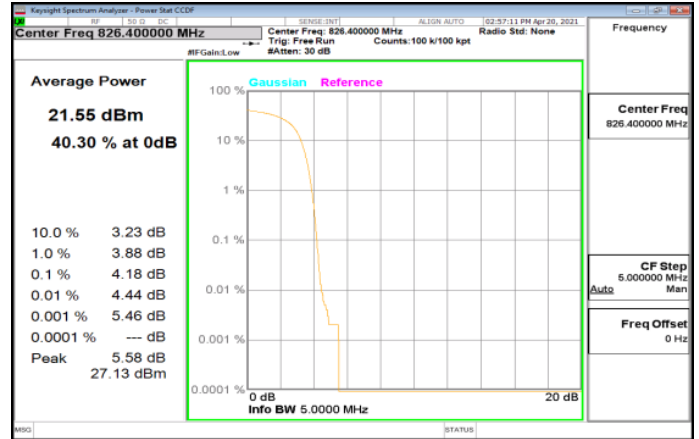
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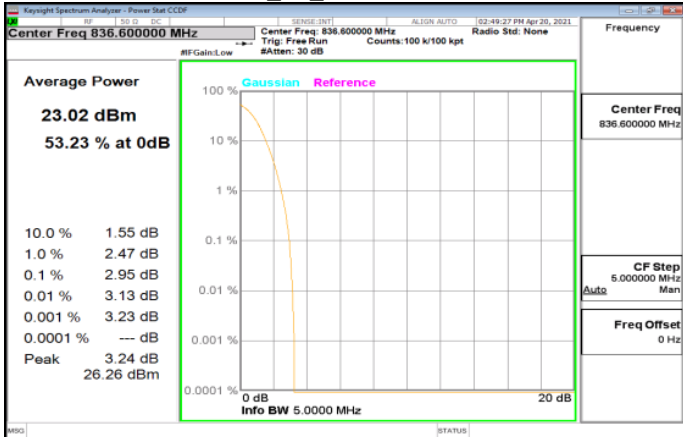
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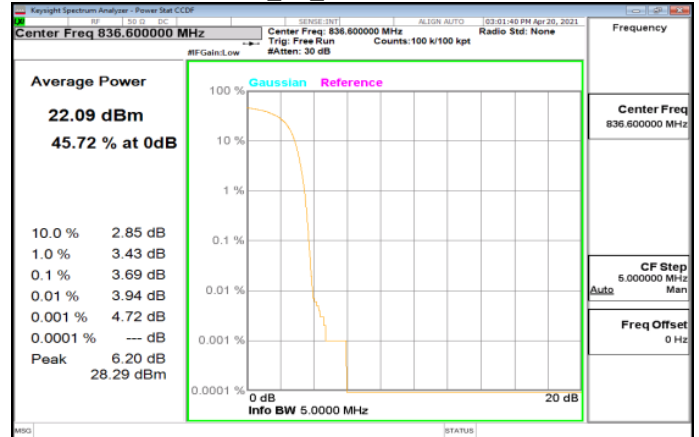
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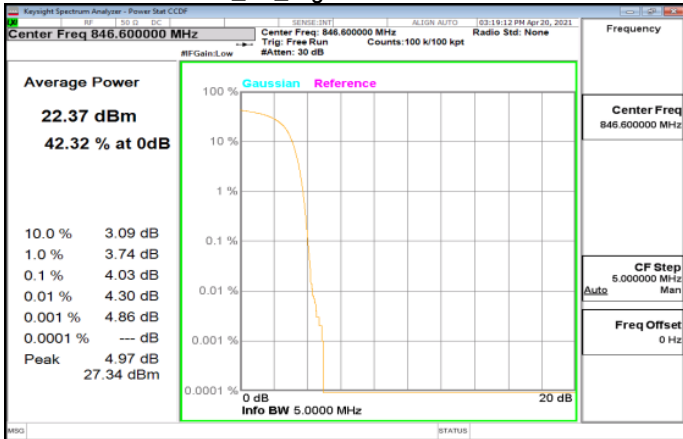


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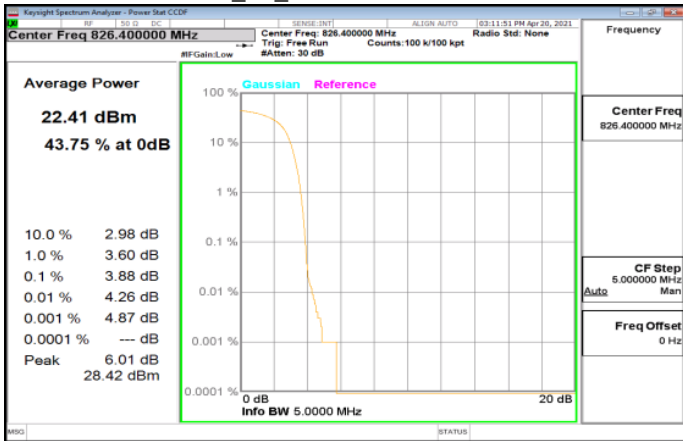
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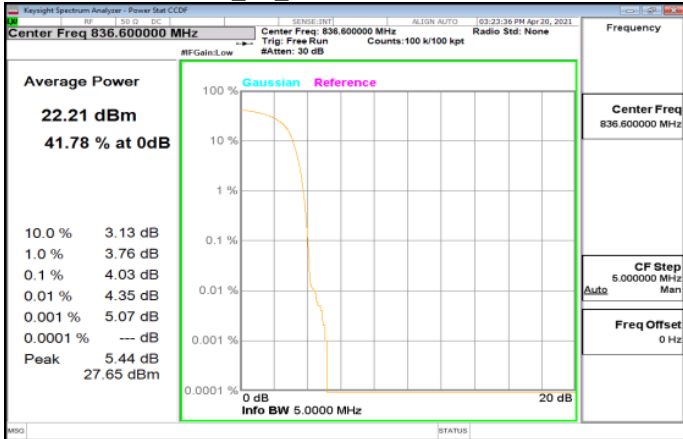
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HSUPA_B5_LowCH4132-826.4



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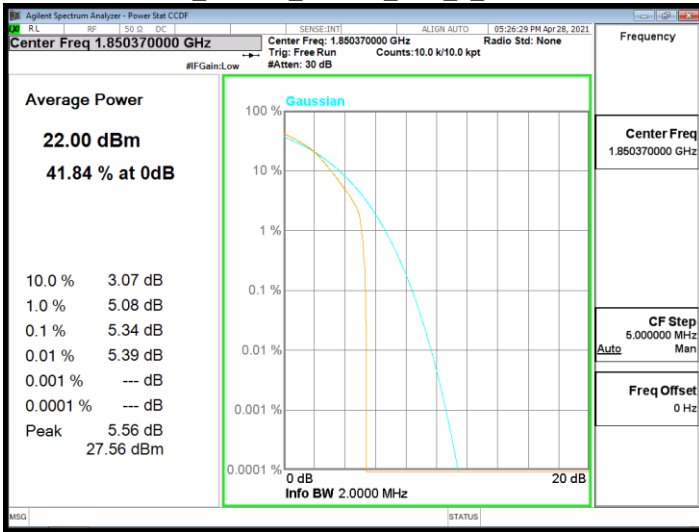


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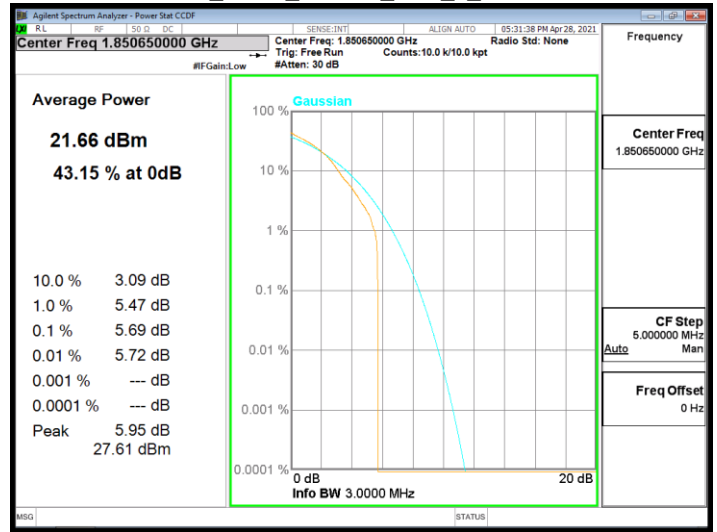
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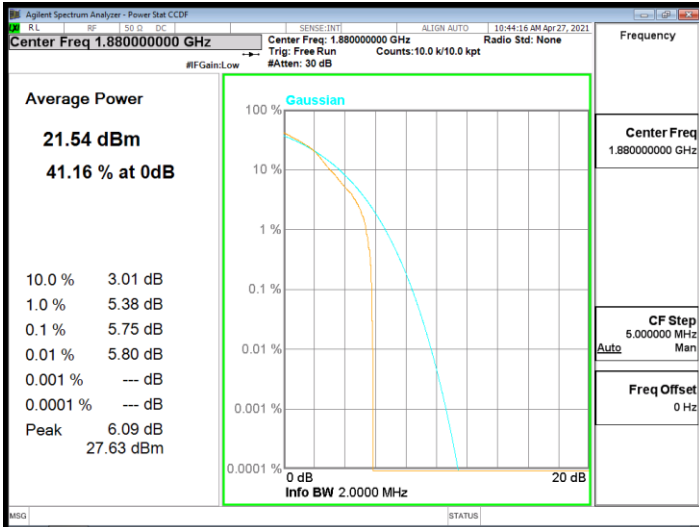
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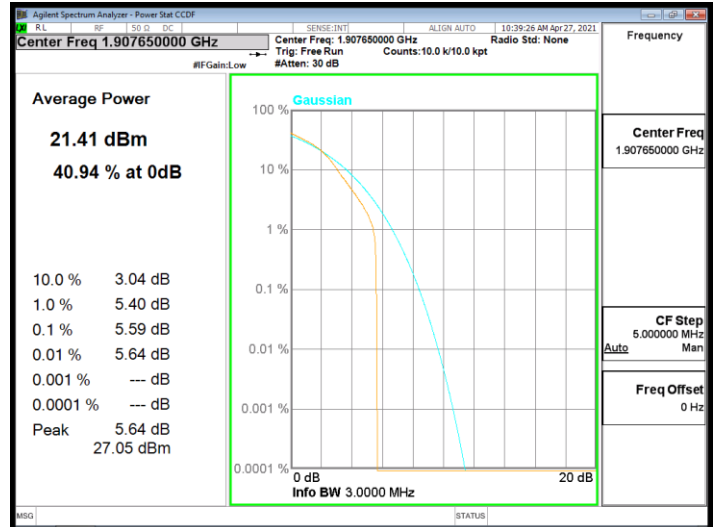
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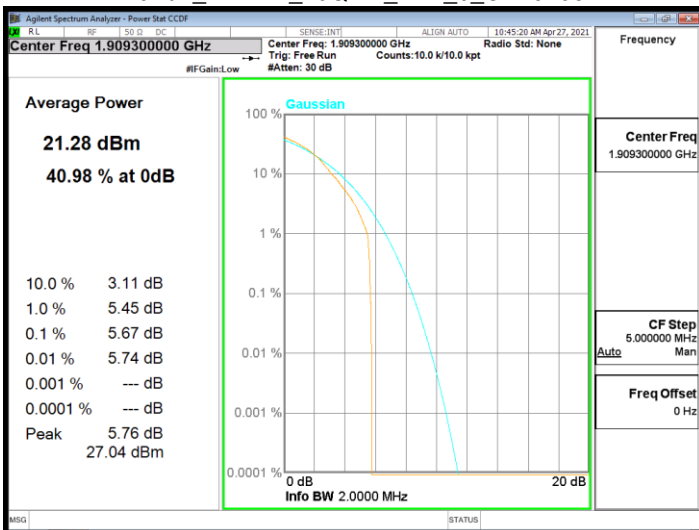
Band2_1.4MHz_16QAM_RB1_0_CH18900



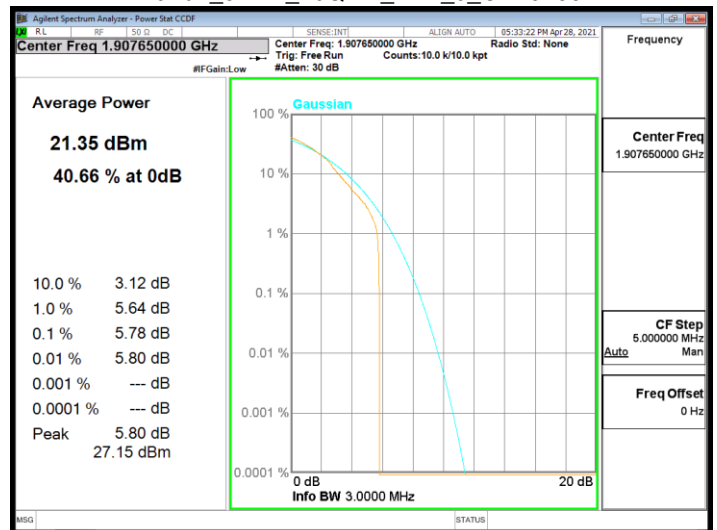
Band2_3MHz_16QAM_RB1_0_CH18900



Band2_1.4MHz_16QAM_RB1_0_CH19193



Band2_3MHz_16QAM_RB1_0_CH19185

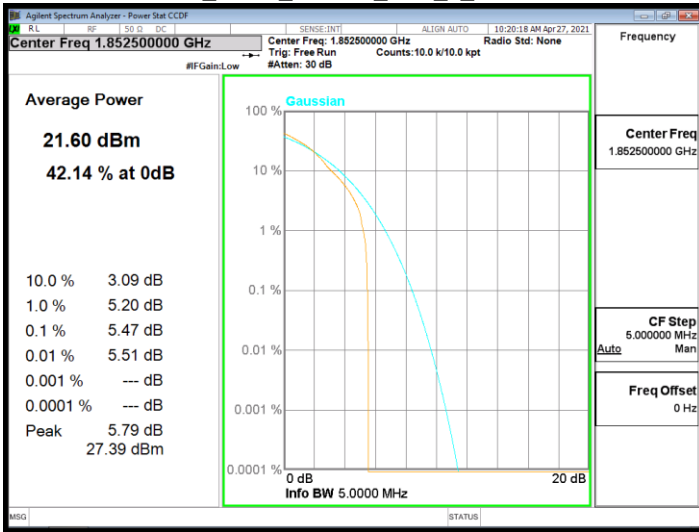


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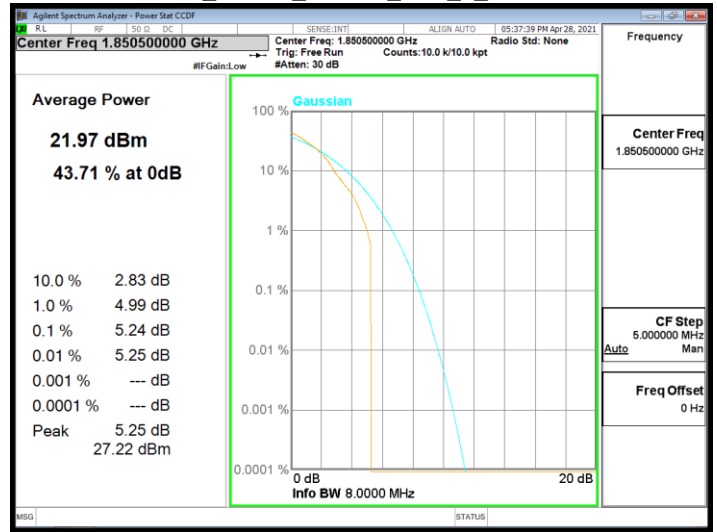
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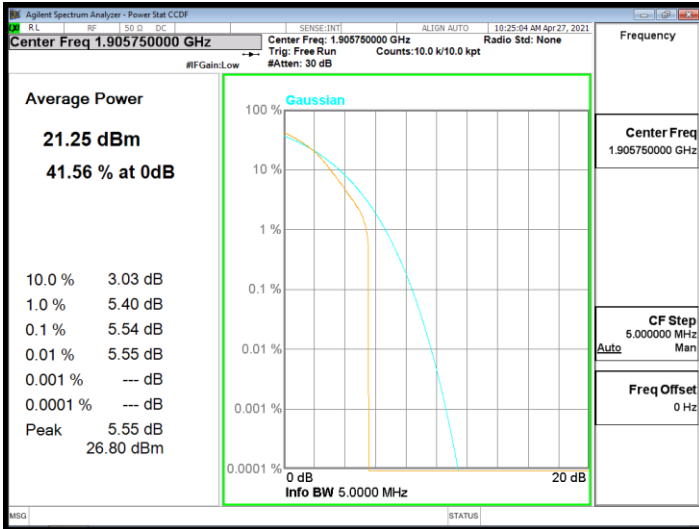
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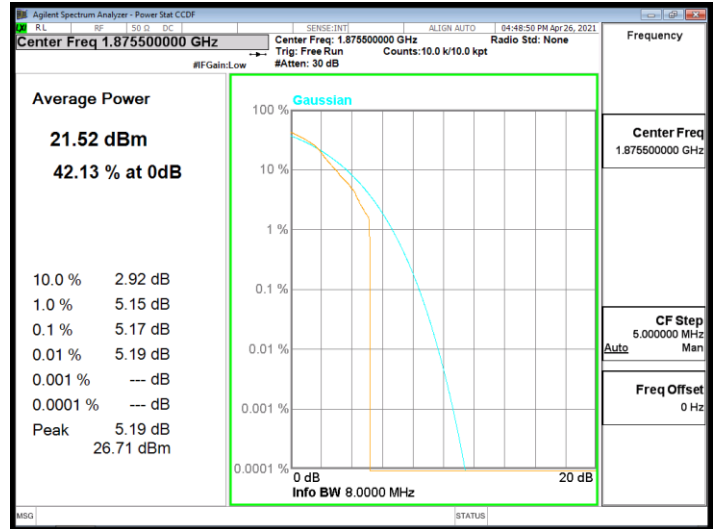
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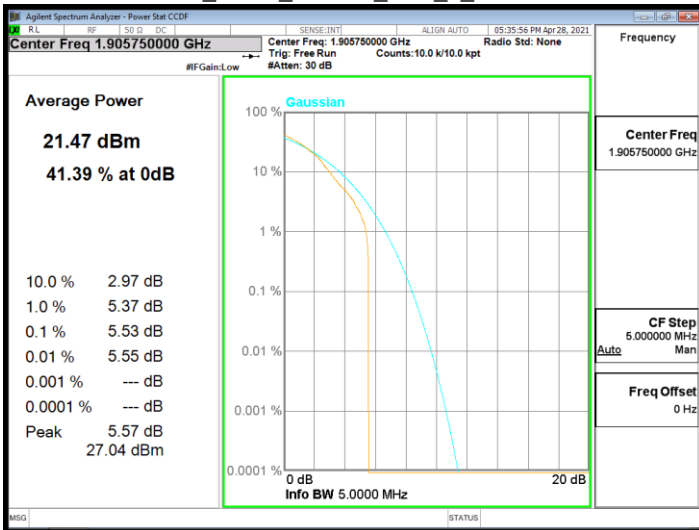
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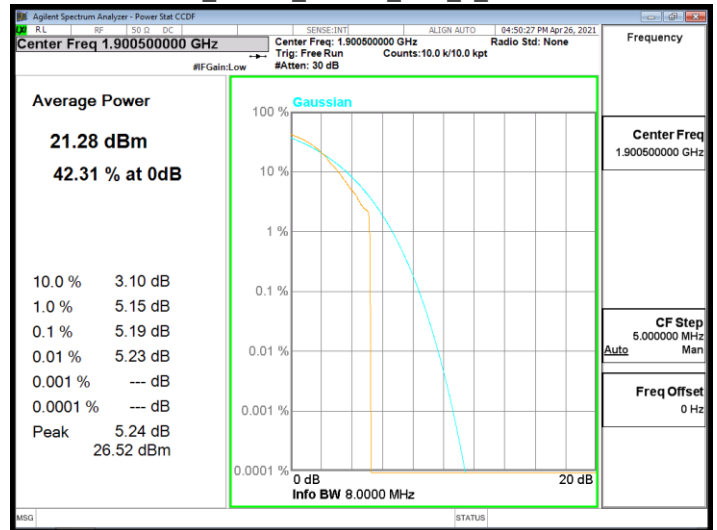
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Band2_5MHz_16QAM_RB1_0_CH19175



Band2_10MHz_16QAM_RB1_0_CH19150

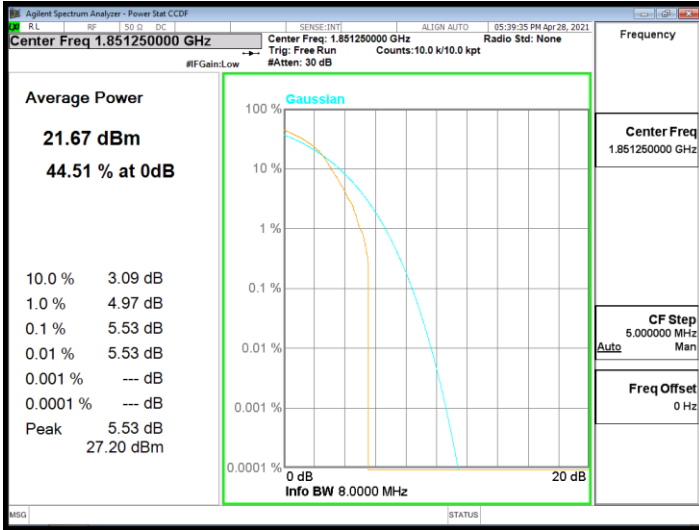


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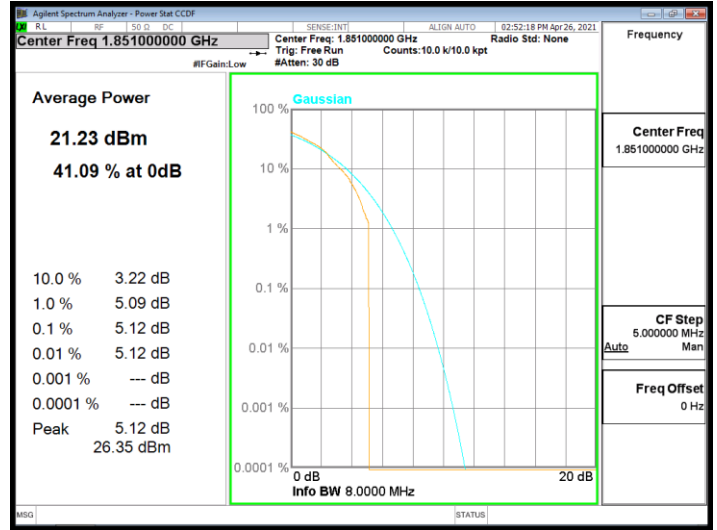
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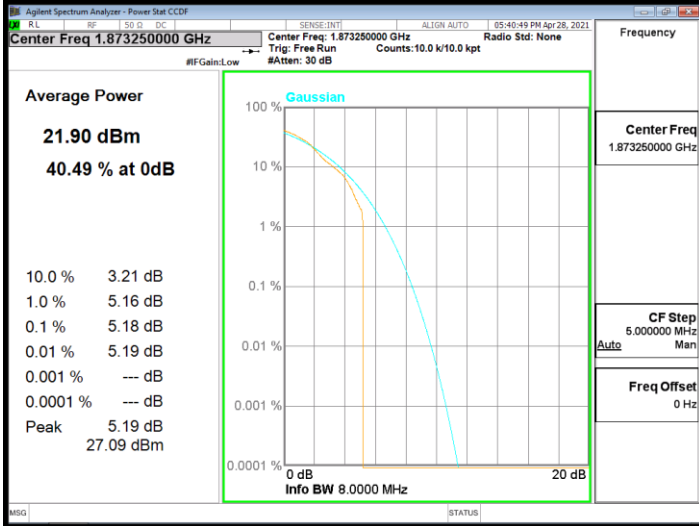
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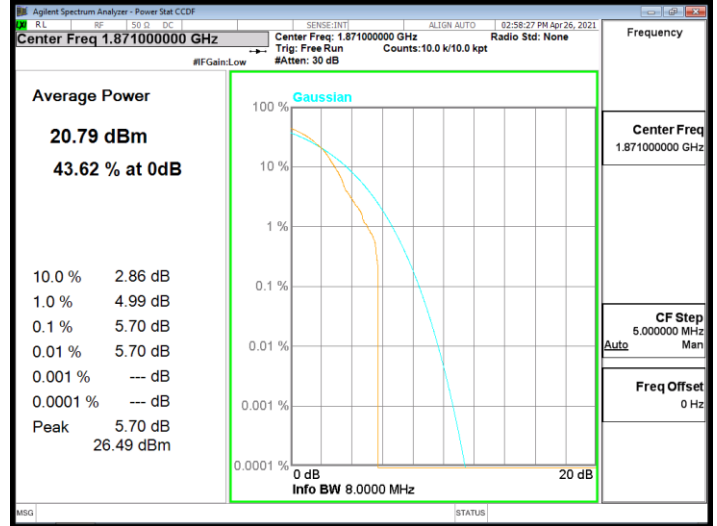
Band2_20MHz_16QAM_RB1_0_CH18700



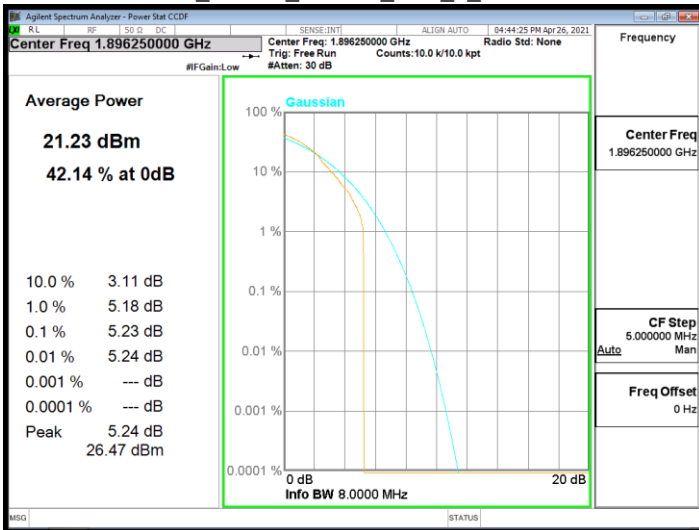
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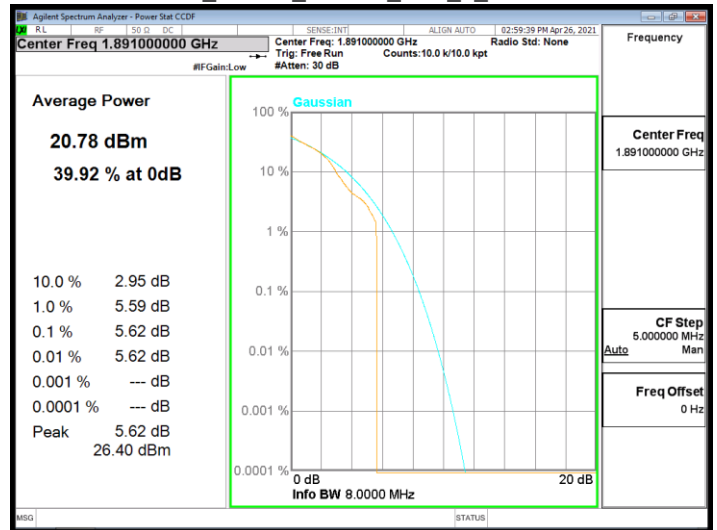
Band2_20MHz_16QAM_RB1_0_CH18900



Band2_15MHz_16QAM_RB1_0_CH19125



Band2_20MHz_16QAM_RB1_0_CH19100

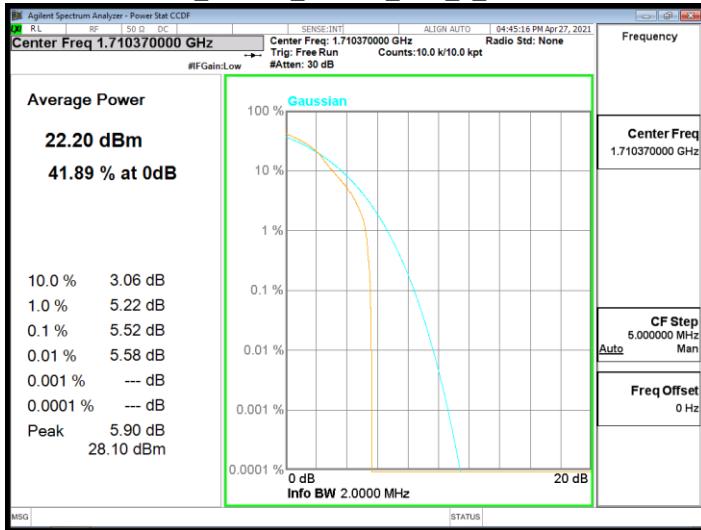


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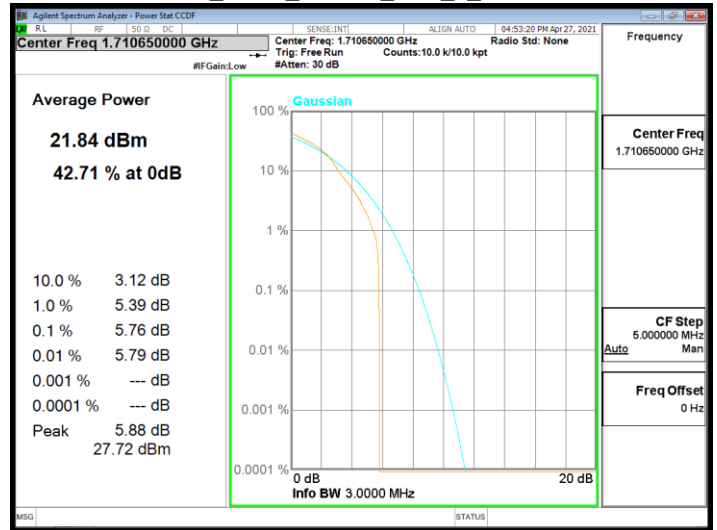
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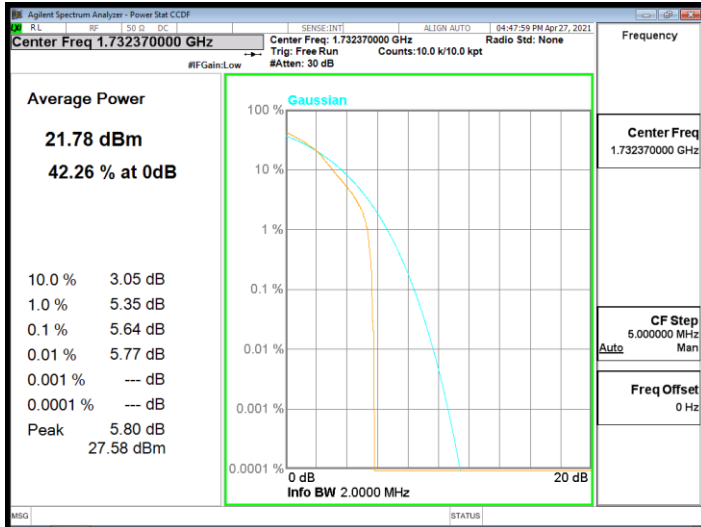
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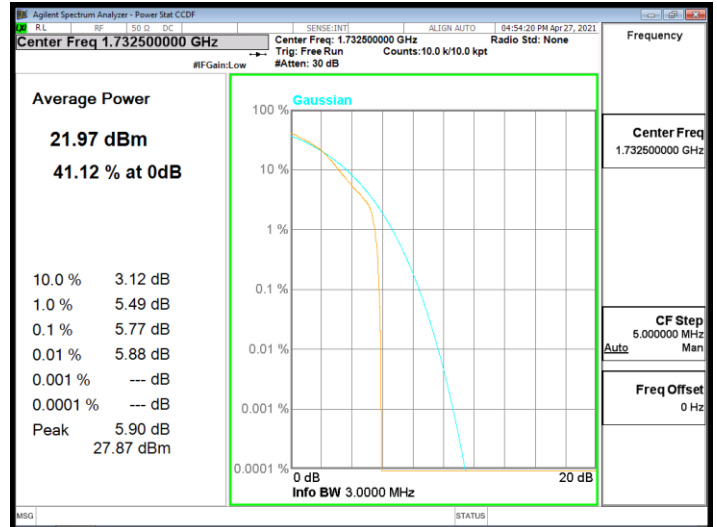
Band4_3MHz_16QAM_RB1_0_CH19965



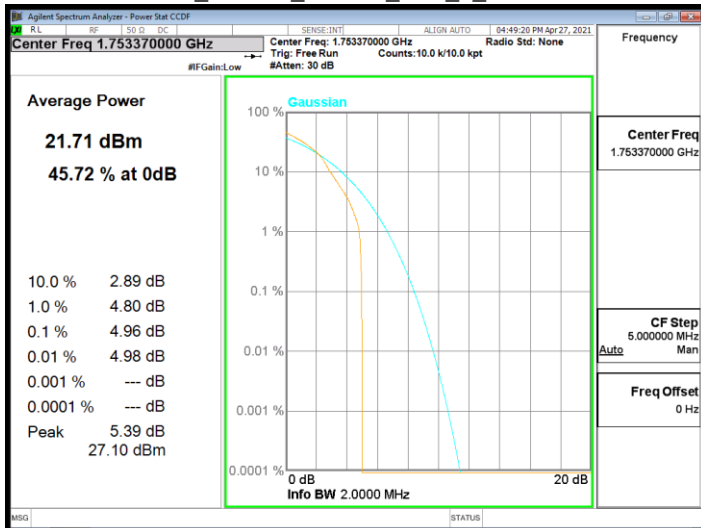
Band4_1.4MHz_16QAM_RB1_0_CH20175



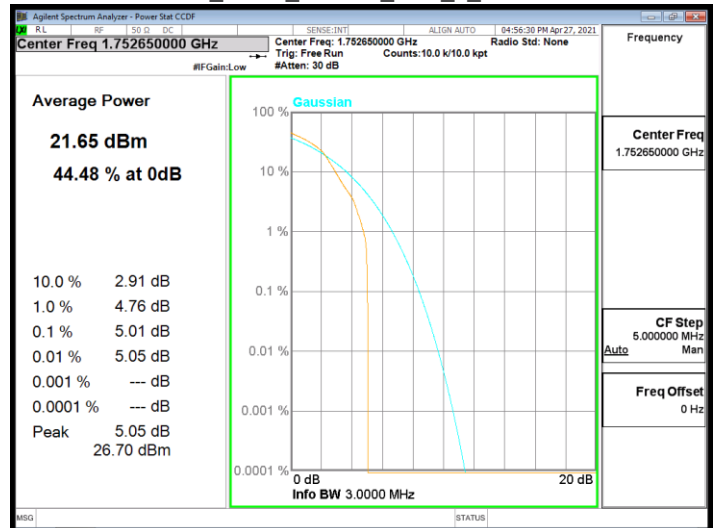
Band4_3MHz_16QAM_RB1_0_CH20175



Band4_1.4MHz_16QAM_RB1_0_CH20393



Band4_3MHz_16QAM_RB1_0_CH20385



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