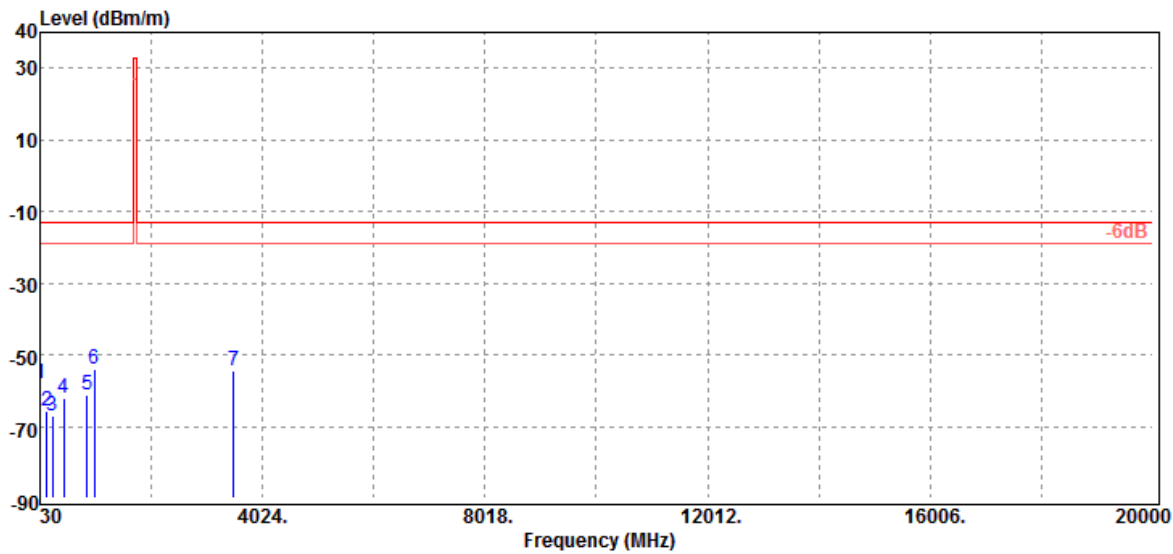


Project Number : T190328W01  
Operation Band : WCDMA B4  
Fundamental Frequency : 1752.6 MHz  
Operation Mode : TX CH HIGH  
EUT Pol. : H Plan

Test Date : 2019-04-17  
Temp./Humi. : 19/53  
Engineer : Kane  
Measurement Antenna Pol. : VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-58.14	-27.64	-30.05	-0.45	-13.00	-45.14
149.31	-65.90	-57.68	-7.22	-1.00	-13.00	-52.90
249.22	-67.19	-64.11	-1.78	-1.30	-13.00	-54.19
460.68	-62.29	-58.43	-2.08	-1.78	-13.00	-49.29
878.75	-61.12	-57.36	-1.25	-2.51	-13.00	-48.12
999.03	-53.93	-49.82	-1.43	-2.68	-13.00	-40.93
3505.20	-54.59	-61.53	12.49	-5.55	-13.00	-41.59

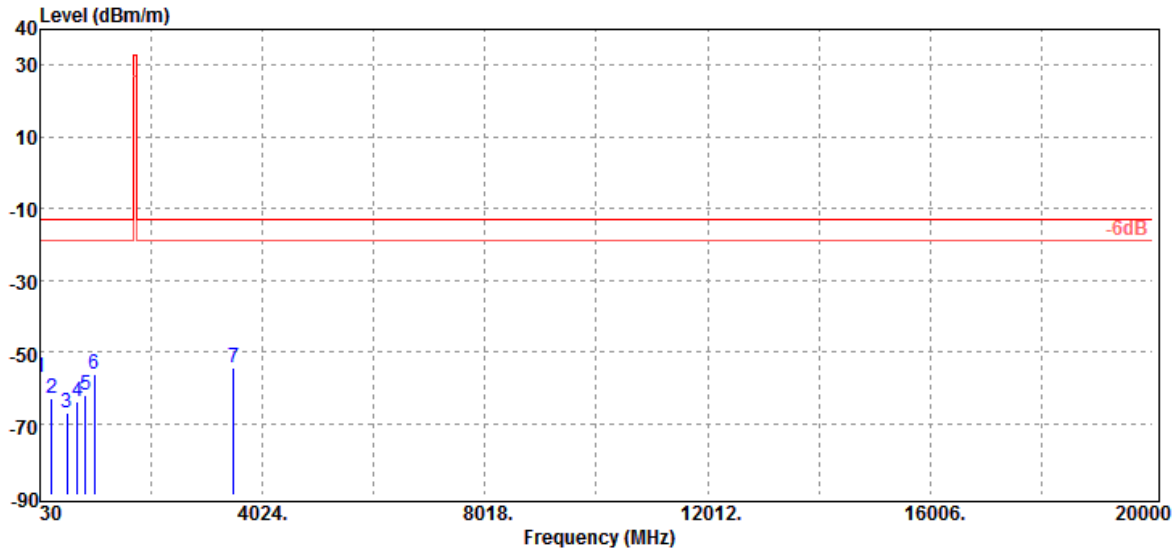
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Project Number : T190328W01  
Operation Band : WCDMA B4  
Fundamental Frequency : 1752.6 MHz  
Operation Mode : TX CH HIGH  
EUT Pol. : H Plan

Test Date : 2019-04-17  
Temp./Humi. : 19/53  
Engineer : Kane  
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-57.29	-26.79	-30.05	-0.45	-13.00	-44.29
243.40	-62.86	-59.56	-2.01	-1.29	-13.00	-49.86
507.24	-67.02	-63.37	-1.76	-1.89	-13.00	-54.02
699.30	-63.72	-60.05	-1.44	-2.23	-13.00	-50.72
845.77	-62.26	-58.45	-1.35	-2.46	-13.00	-49.26
999.03	-56.37	-52.26	-1.43	-2.68	-13.00	-43.37
3505.20	-54.37	-61.31	12.49	-5.55	-13.00	-41.37

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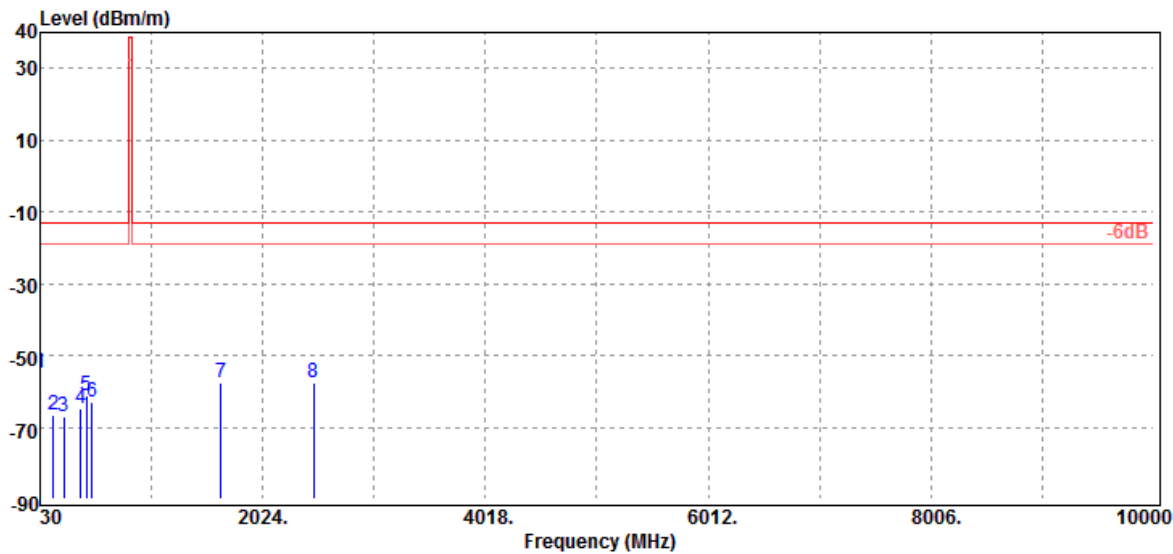
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**Radiated Spurious Emission Measurement Result: WCDMA Band 5 Mode**

Project Number : T190328W01  
 Operation Band : WCDMA B5  
 Fundamental Frequency : 826.4 MHz  
 Operation Mode : TX CH LOW  
 EUT Pol. : H Plan

Test Date : 2019-04-18  
 Temp./Humi. : 19/53  
 Engineer : Kane  
 Measurement Antenna Pol. : VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	-54.73	-26.16	-28.10	-0.47	-13.00	-41.73
149.31	-66.64	-58.42	-7.22	-1.00	-13.00	-53.64
245.34	-67.20	-63.97	-1.94	-1.29	-13.00	-54.20
393.75	-64.78	-61.6	-1.53	-1.65	-13.00	-51.78
444.19	-61.23	-57.43	-2.05	-1.75	-13.00	-48.23
498.51	-62.97	-59.12	-1.98	-1.87	-13.00	-49.97
1652.80	-57.59	-63.76	9.72	-3.55	-13.00	-44.59
2479.20	-57.45	-63.69	10.72	-4.48	-13.00	-44.45

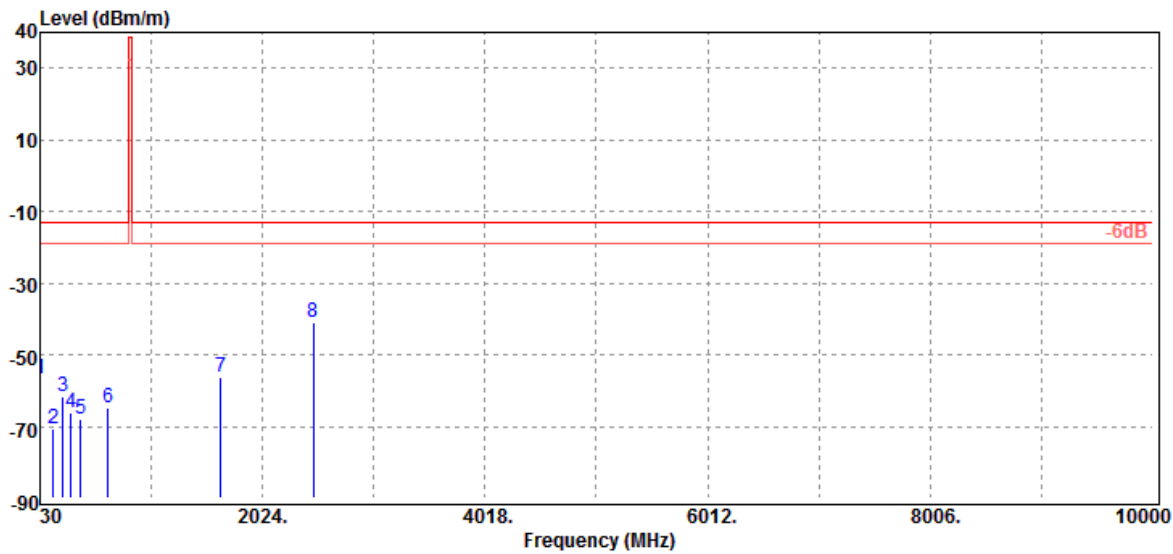
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Project Number : T190328W01  
Operation Band : WCDMA B5  
Fundamental Frequency : 826.4 MHz  
Operation Mode : TX CH LOW  
EUT Pol. : H Plan

Test Date : 2019-04-18  
Temp./Humi. : 19/53  
Engineer : Kane  
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-56.51	-26.01	-30.05	-0.45	-13.00	-43.51
150.28	-70.55	-62.41	-7.13	-1.01	-13.00	-57.55
235.64	-61.80	-58.39	-2.15	-1.26	-13.00	-48.80
306.45	-66.16	-62.76	-1.95	-1.45	-13.00	-53.16
395.69	-67.84	-64.63	-1.56	-1.65	-13.00	-54.84
643.04	-64.95	-61.14	-1.69	-2.12	-13.00	-51.95
1652.80	-56.09	-62.26	9.72	-3.55	-13.00	-43.09
2479.20	-40.88	-47.12	10.72	-4.48	-13.00	-27.88

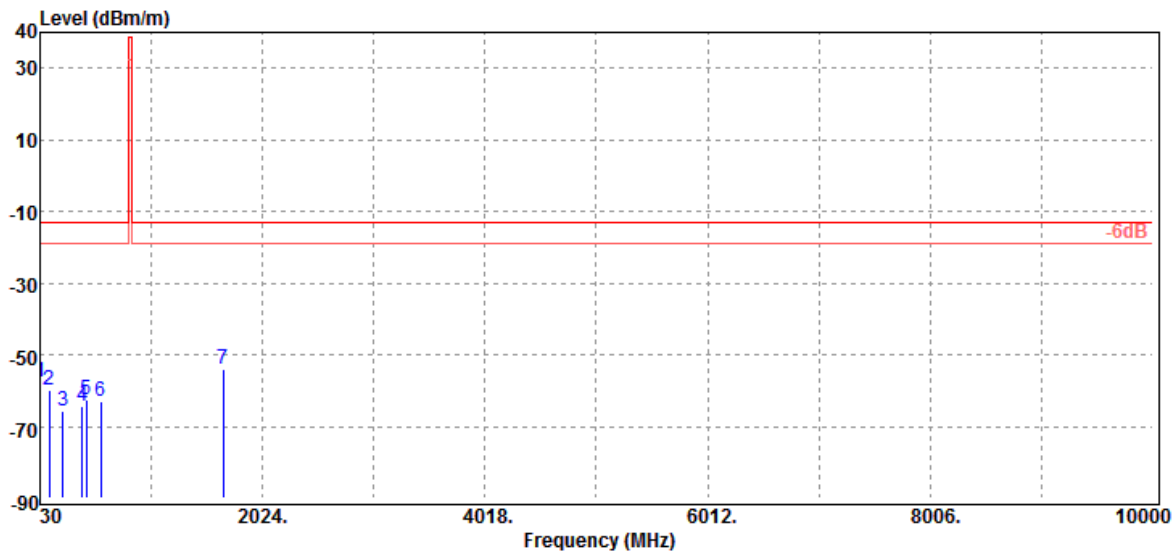
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Project Number : T190328W01  
Operation Band : WCDMA B5  
Fundamental Frequency : 836.6 MHz  
Operation Mode : TX CH MID  
EUT Pol. : H Plan

Test Date : 2019-04-18  
Temp./Humi. : 19/53  
Engineer : Kane  
Measurement Antenna Pol. : VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-57.55	-27.05	-30.05	-0.45	-13.00	-44.55
116.33	-59.82	-48.43	-10.50	-0.89	-13.00	-46.82
237.58	-65.67	-62.25	-2.15	-1.27	-13.00	-52.67
410.24	-64.54	-61.11	-1.75	-1.68	-13.00	-51.54
444.19	-62.42	-58.62	-2.05	-1.75	-13.00	-49.42
577.08	-63.01	-59.58	-1.41	-2.02	-13.00	-50.01
1673.20	-54.12	-60.38	9.84	-3.58	-13.00	-41.12

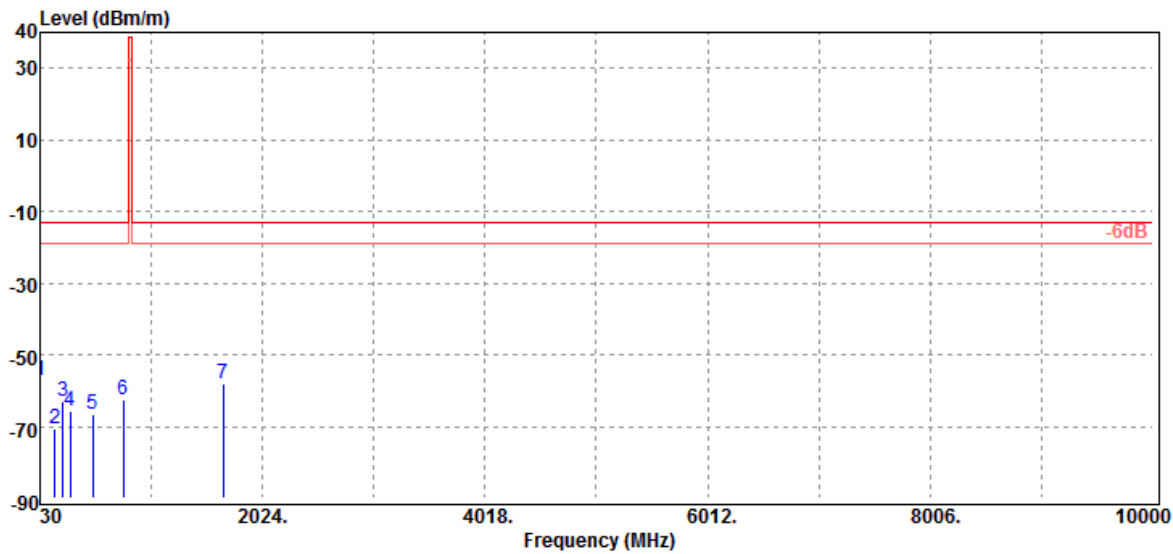
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Project Number : T190328W01  
Operation Band : WCDMA B5  
Fundamental Frequency : 836.6 MHz  
Operation Mode : TX CH MID  
EUT Pol. : H Plan

Test Date : 2019-04-18  
Temp./Humi. : 19/53  
Engineer : Kane  
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-57.01	-26.51	-30.05	-0.45	-13.00	-44.01
164.83	-70.51	-63.59	-5.86	-1.06	-13.00	-57.51
232.73	-63.02	-59.66	-2.10	-1.26	-13.00	-50.02
303.54	-65.68	-62.29	-1.95	-1.44	-13.00	-52.68
505.30	-66.56	-62.84	-1.84	-1.88	-13.00	-53.56
775.93	-62.63	-58.84	-1.45	-2.34	-13.00	-49.63
1673.20	-58.23	-64.49	9.84	-3.58	-13.00	-45.23

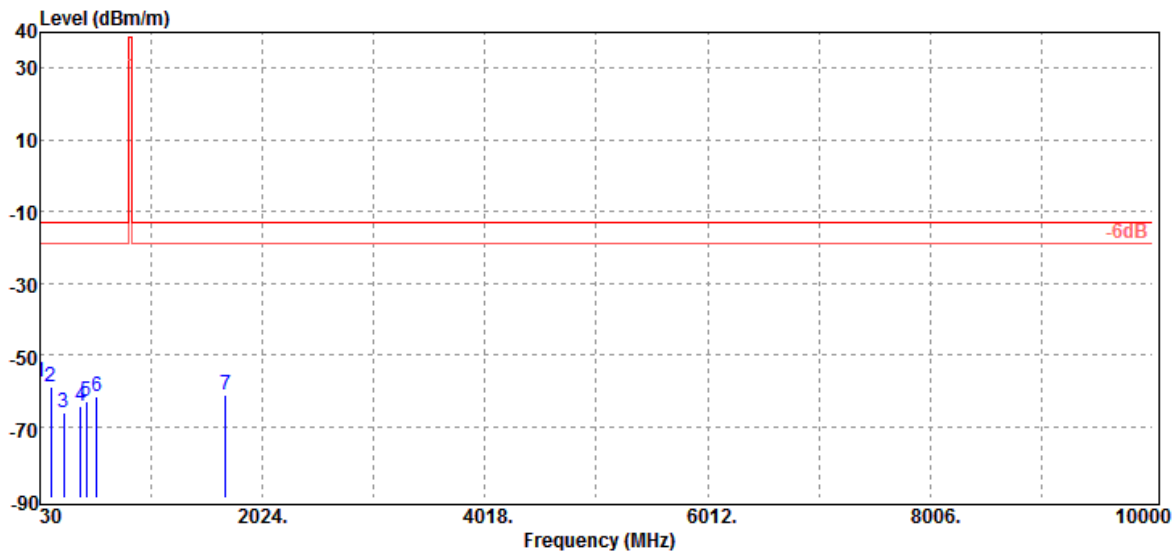
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Project Number : T190328W01  
Operation Band : WCDMA B5  
Fundamental Frequency : 846.6 MHz  
Operation Mode : TX CH HIGH  
EUT Pol. : H Plan

Test Date : 2019-04-18  
Temp./Humi. : 19/53  
Engineer : Kane  
Measurement Antenna Pol. : VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-57.53	-27.03	-30.05	-0.45	-13.00	-44.53
127.00	-59.06	-47.8	-10.33	-0.93	-13.00	-46.06
241.46	-66.24	-62.87	-2.09	-1.28	-13.00	-53.24
395.69	-64.48	-61.27	-1.56	-1.65	-13.00	-51.48
447.10	-62.87	-59.07	-2.05	-1.75	-13.00	-49.87
537.31	-61.76	-58.58	-1.25	-1.93	-13.00	-48.76
1693.20	-61.17	-67.54	9.96	-3.59	-13.00	-48.17

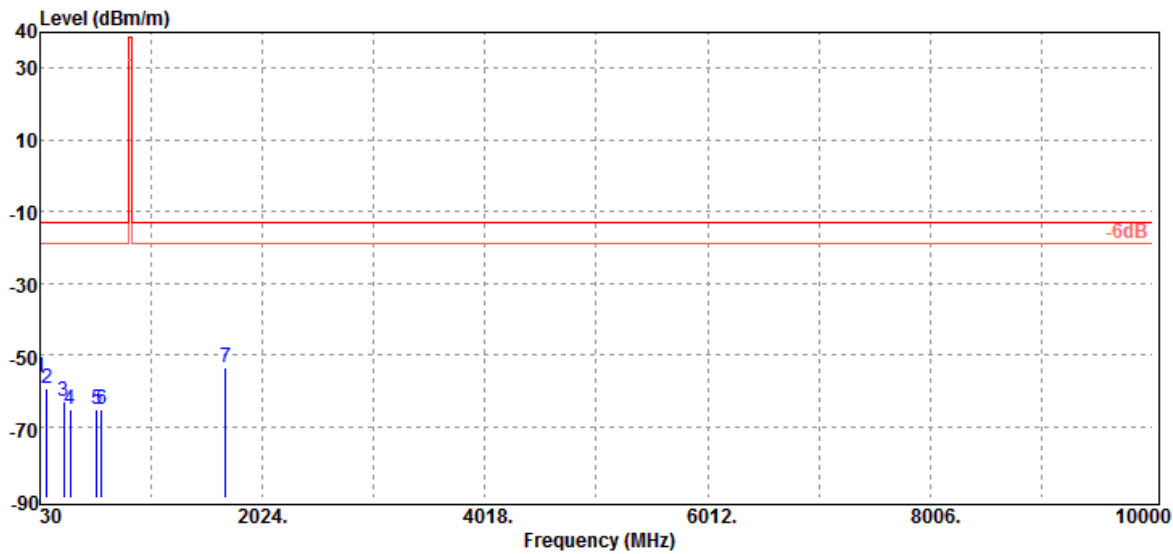
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Project Number : T190328W01  
Operation Band : WCDMA B5  
Fundamental Frequency : 846.6 MHz  
Operation Mode : TX CH HIGH  
EUT Pol. : H Plan

Test Date : 2019-04-18  
Temp./Humi. : 19/53  
Engineer : Kane  
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-56.24	-25.74	-30.05	-0.45	-13.00	-43.24
92.08	-59.35	-51.43	-7.13	-0.79	-13.00	-46.35
242.43	-63.21	-59.88	-2.05	-1.28	-13.00	-50.21
299.66	-65.16	-61.77	-1.96	-1.43	-13.00	-52.16
541.19	-65.23	-62.06	-1.23	-1.94	-13.00	-52.23
579.99	-65.33	-61.96	-1.35	-2.02	-13.00	-52.33
1693.20	-53.73	-60.1	9.96	-3.59	-13.00	-40.73

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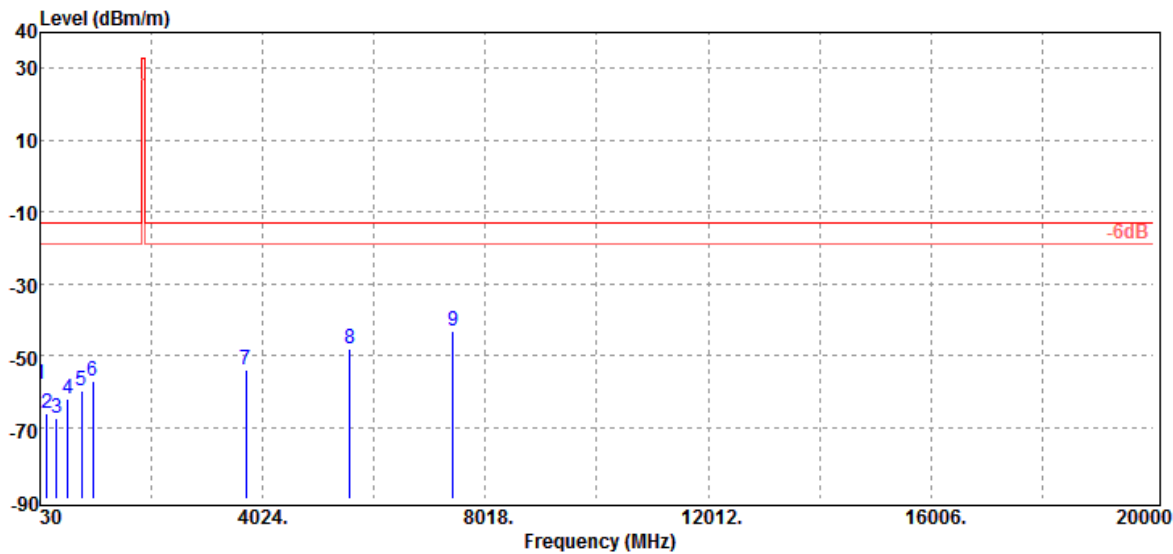
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**Radiated Spurious Emission Measurement Result: LTE-Band 2 (The Worst Case)**

Project Number	: T190328W01	Test Date	: 2019-04-17
Operation Band	: LTE B2 20M QPSK 1,0	Temp./Humi.	: 19/53
Fundamental Frequency	: 1860 MHz	Engineer	: Kane
Operation Mode	: TX CH LOW	Measurement Antenna Pol.	: VERTICAL
EUT Pol.	: H Plan		



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-58.09	-27.59	-30.05	-0.45	-13.00	-45.09
146.40	-66.08	-57.57	-7.51	-1.00	-13.00	-53.08
319.06	-67.34	-63.99	-1.87	-1.48	-13.00	-54.34
531.49	-62.29	-59.05	-1.32	-1.92	-13.00	-49.29
773.02	-59.77	-56.02	-1.41	-2.34	-13.00	-46.77
978.66	-57.34	-53.34	-1.35	-2.65	-13.00	-44.34
3720.00	-54.22	-60.97	12.46	-5.71	-13.00	-41.22
5580.00	-48.31	-54.44	13.14	-7.01	-13.00	-35.31
7440.00	-43.42	-45.76	10.52	-8.18	-13.00	-30.42

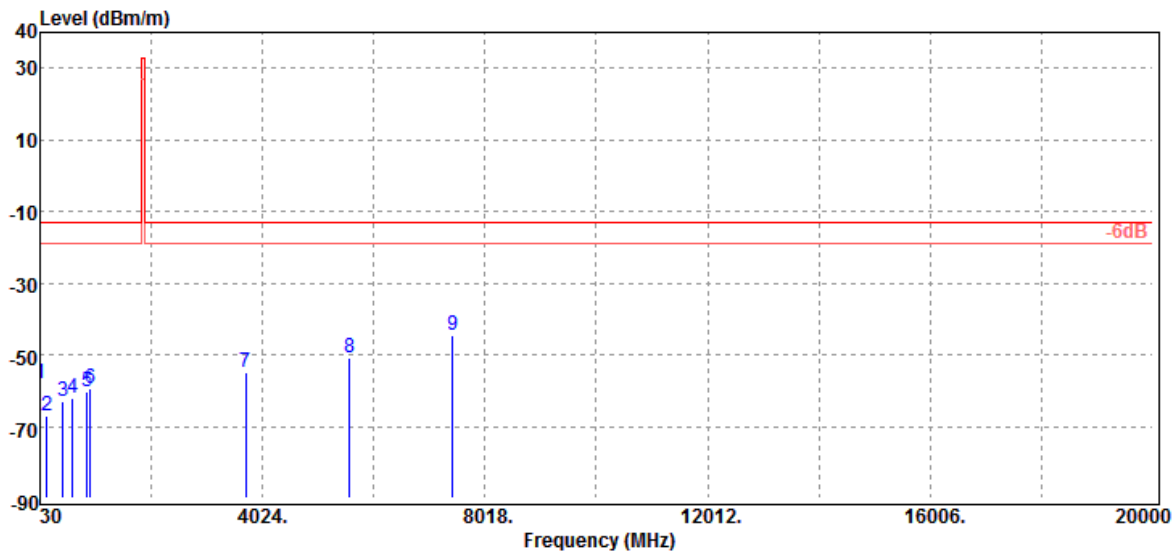
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Project Number : T190328W01  
Operation Band : LTE B2 20M QPSK 1,0  
Fundamental Frequency : 1860 MHz  
Operation Mode : TX CH LOW  
EUT Pol. : H Plan

Test Date : 2019-04-17  
Temp./Humi. : 19/53  
Engineer : Kane  
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-58.10	-27.6	-30.05	-0.45	-13.00	-45.10
149.31	-67.07	-58.85	-7.22	-1.00	-13.00	-54.07
444.19	-62.95	-59.15	-2.05	-1.75	-13.00	-49.95
612.00	-61.97	-58.71	-1.19	-2.07	-13.00	-48.97
870.99	-60.30	-56.56	-1.25	-2.49	-13.00	-47.30
933.07	-59.36	-55.46	-1.31	-2.59	-13.00	-46.36
3720.00	-55.12	-61.87	12.46	-5.71	-13.00	-42.12
5580.00	-50.76	-56.89	13.14	-7.01	-13.00	-37.76
7440.00	-44.37	-46.71	10.52	-8.18	-13.00	-31.37

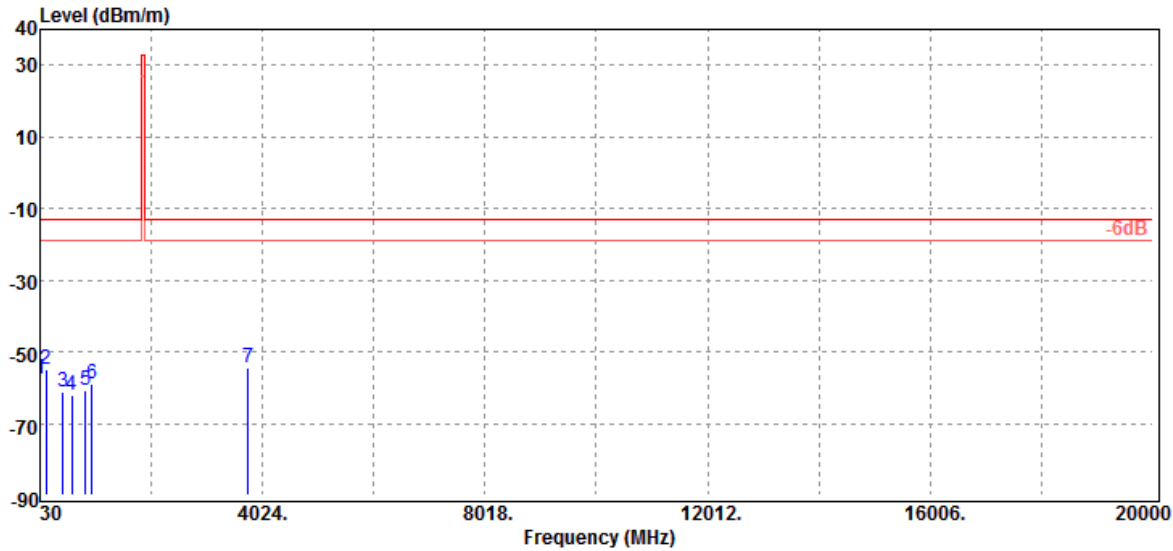
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Project Number : T190328W01  
Operation Band : LTE B2 20M QPSK 1,0  
Fundamental Frequency : 1880 MHz  
Operation Mode : TX CH MID  
EUT Pol. : H Plan

Test Date : 2019-04-17  
Temp./Humi. : 19/53  
Engineer : Kane  
Measurement Antenna Pol. : VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-57.67	-27.17	-30.05	-0.45	-13.00	-44.67
132.82	-55.04	-44.39	-9.70	-0.95	-13.00	-42.04
444.19	-61.08	-57.28	-2.05	-1.75	-13.00	-48.08
603.27	-62.25	-59.27	-0.92	-2.06	-13.00	-49.25
845.77	-60.75	-56.94	-1.35	-2.46	-13.00	-47.75
967.02	-59.08	-55.14	-1.31	-2.63	-13.00	-46.08
3760.00	-54.46	-61.19	12.42	-5.69	-13.00	-41.46

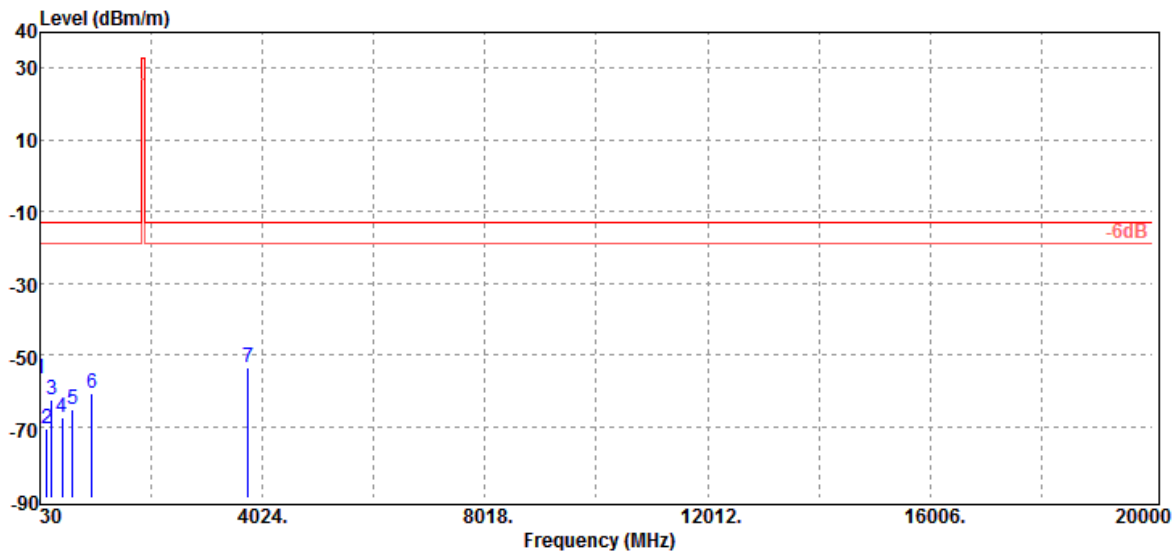
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Project Number : T190328W01  
Operation Band : LTE B2 20M QPSK 1,0  
Fundamental Frequency : 1880 MHz  
Operation Mode : TX CH MID  
EUT Pol. : H Plan

Test Date : 2019-04-17  
Temp./Humi. : 19/53  
Engineer : Kane  
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-56.79	-26.29	-30.05	-0.45	-13.00	-43.79
151.25	-70.57	-62.51	-7.05	-1.01	-13.00	-57.57
241.46	-62.36	-58.99	-2.09	-1.28	-13.00	-49.36
433.52	-67.44	-63.79	-1.92	-1.73	-13.00	-54.44
619.76	-65.17	-61.74	-1.35	-2.08	-13.00	-52.17
968.96	-60.87	-56.96	-1.27	-2.64	-13.00	-47.87
3760.00	-53.41	-60.14	12.42	-5.69	-13.00	-40.41

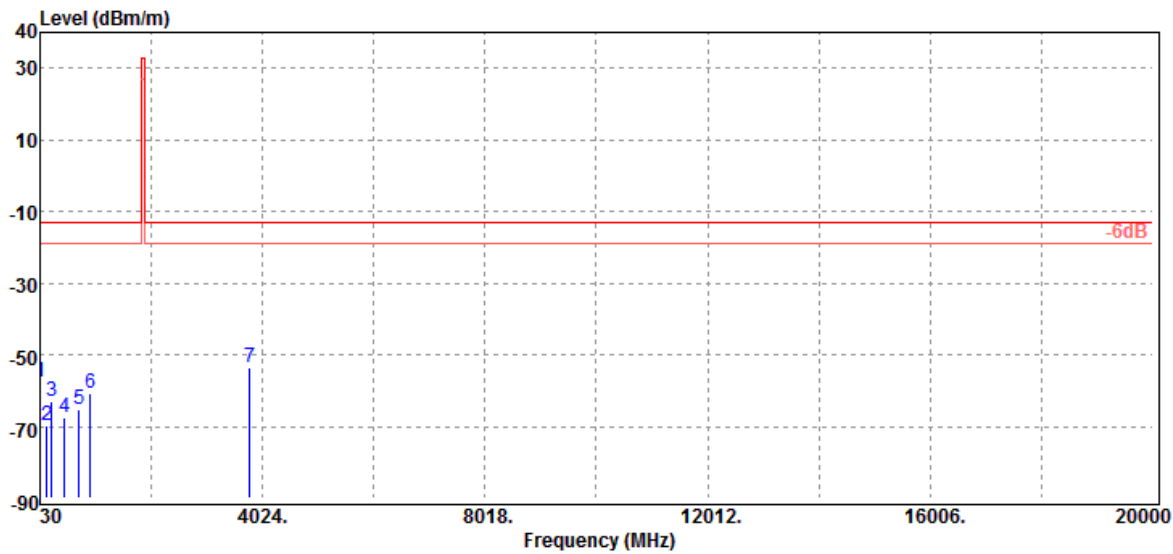
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Project Number : T190328W01  
Operation Band : LTE B2 20M QPSK 1,0  
Fundamental Frequency : 1900 MHz  
Operation Mode : TX CH HIGH  
EUT Pol. : H Plan

Test Date : 2019-04-17  
Temp./Humi. : 19/53  
Engineer : Kane  
Measurement Antenna Pol. : VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-57.47	-26.97	-30.05	-0.45	-13.00	-44.47
150.28	-69.67	-61.53	-7.13	-1.01	-13.00	-56.67
244.37	-63.18	-59.92	-1.97	-1.29	-13.00	-50.18
463.59	-67.45	-63.47	-2.19	-1.79	-13.00	-54.45
735.19	-65.11	-61.47	-1.35	-2.29	-13.00	-52.11
933.07	-60.81	-56.91	-1.31	-2.59	-13.00	-47.81
3800.00	-53.76	-60.5	12.50	-5.76	-13.00	-40.76

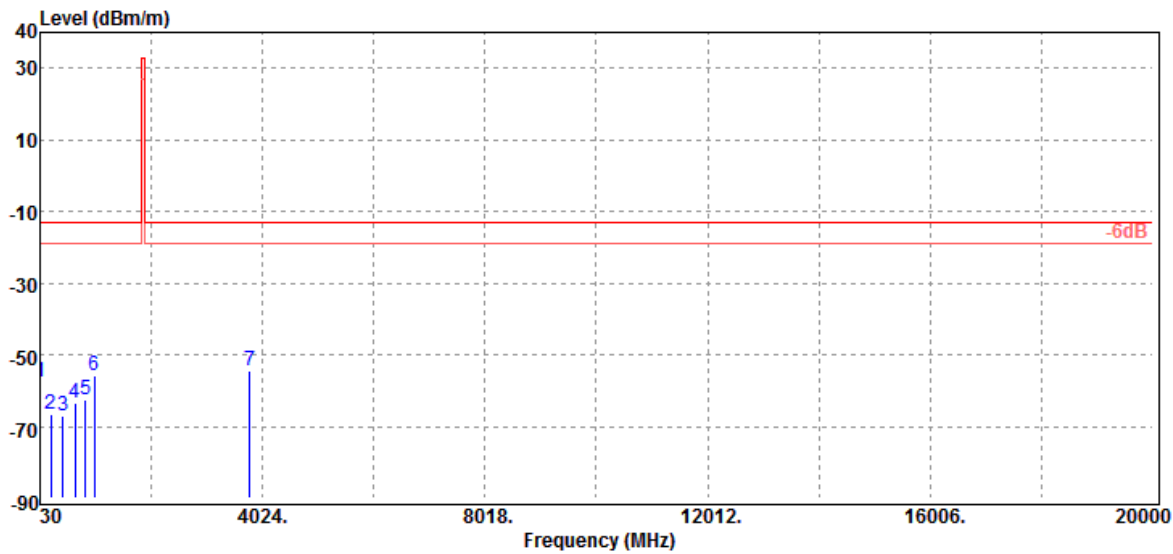
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Project Number : T190328W01  
Operation Band : LTE B2 20M QPSK 1,0  
Fundamental Frequency : 1900 MHz  
Operation Mode : TX CH HIGH  
EUT Pol. : H Plan

Test Date : 2019-04-17  
Temp./Humi. : 19/53  
Engineer : Kane  
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-57.46	-26.96	-30.05	-0.45	-13.00	-44.46
220.12	-66.70	-63.53	-1.95	-1.22	-13.00	-53.70
444.19	-67.12	-63.32	-2.05	-1.75	-13.00	-54.12
665.35	-63.24	-59.62	-1.45	-2.17	-13.00	-50.24
843.83	-62.69	-58.86	-1.37	-2.46	-13.00	-49.69
999.03	-55.68	-51.57	-1.43	-2.68	-13.00	-42.68
3800.00	-54.50	-61.24	12.50	-5.76	-13.00	-41.50

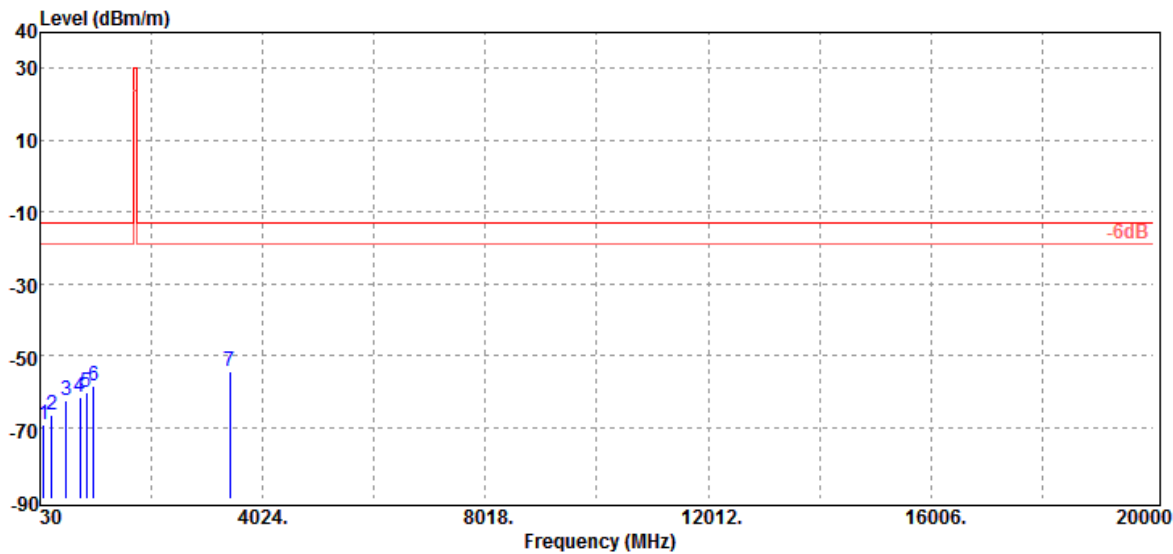
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## Radiated Spurious Emission Measurement Result: LTE-Band 4 (The Worst Case)

Project Number	: T190328W01	Test Date	: 2019-04-17
Operation Band	: LTE B4 20M QPSK 1,0	Temp./Humi.	: 19/53
Fundamental Frequency	: 1720 MHz	Engineer	: Kane
Operation Mode	: TX CH LOW	Measurement Antenna Pol.	: VERTICAL
EUT Pol.	: H Plan		



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
90.14	-69.33	-61.49	-7.06	-0.78	-13.00	-56.33
238.55	-66.40	-62.98	-2.15	-1.27	-13.00	-53.40
503.36	-62.43	-58.67	-1.88	-1.88	-13.00	-49.43
751.68	-61.57	-57.84	-1.42	-2.31	-13.00	-48.57
856.44	-60.18	-56.43	-1.28	-2.47	-13.00	-47.18
985.45	-58.45	-54.43	-1.36	-2.66	-13.00	-45.45
3440.00	-54.66	-61.9	12.72	-5.48	-13.00	-41.66

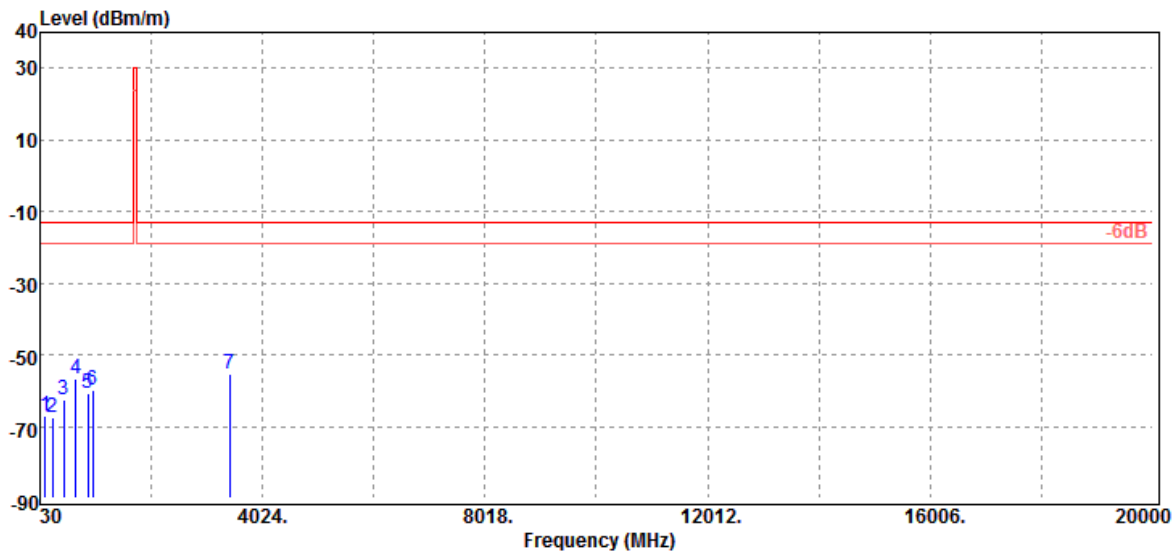
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Project Number : T190328W01  
Operation Band : LTE B4 20M QPSK 1,0  
Fundamental Frequency : 1720 MHz  
Operation Mode : TX CH LOW  
EUT Pol. : H Plan

Test Date : 2019-04-17  
Temp./Humi. : 19/53  
Engineer : Kane  
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
128.94	-66.89	-55.74	-10.21	-0.94	-13.00	-53.89
251.16	-67.65	-64.64	-1.70	-1.31	-13.00	-54.65
461.65	-62.67	-58.77	-2.12	-1.78	-13.00	-49.67
667.29	-56.88	-53.25	-1.45	-2.18	-13.00	-43.88
896.21	-60.54	-56.75	-1.25	-2.54	-13.00	-47.54
975.75	-59.71	-55.72	-1.35	-2.64	-13.00	-46.71
3440.00	-55.25	-62.49	12.72	-5.48	-13.00	-42.25

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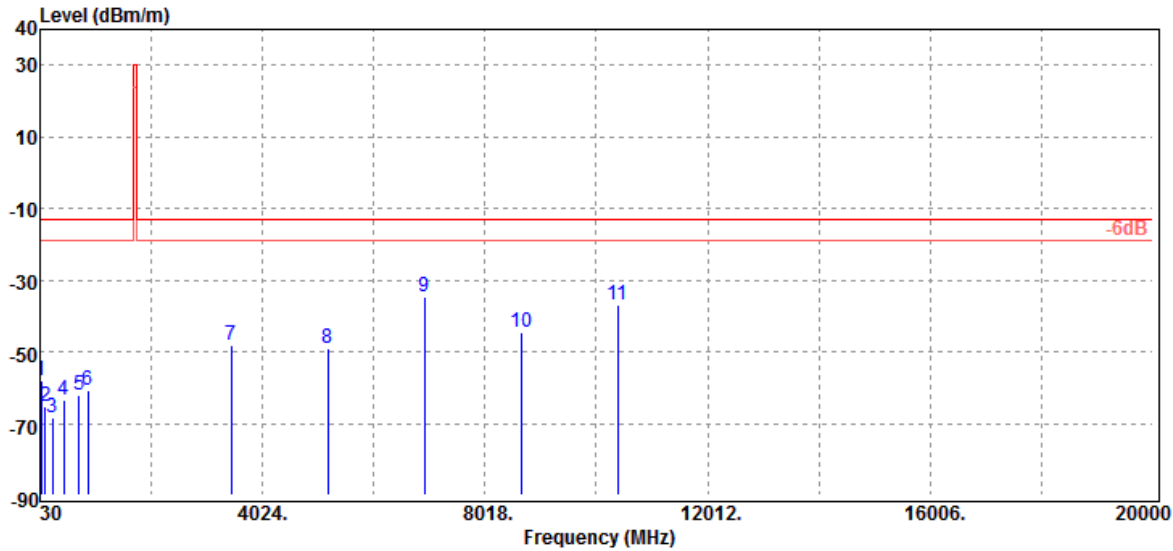
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Project Number : T190328W01  
Operation Band :LTE B4 20M QPSK 1,0  
Fundamental Frequency :1732.5 MHz  
Operation Mode :TX CH MID  
EUT Pol. :H Plan

Test Date :2019-04-17  
Temp./Humi. :19/53  
Engineer :Kane  
Measurement Antenna Pol. :VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
47.46	-58.20	-43.94	-13.68	-0.58	-13.00	-45.20
117.30	-65.38	-53.95	-10.54	-0.89	-13.00	-52.38
253.10	-68.36	-65.42	-1.63	-1.31	-13.00	-55.36
450.01	-63.24	-59.43	-2.05	-1.76	-13.00	-50.24
734.22	-62.12	-58.49	-1.35	-2.28	-13.00	-49.12
889.42	-60.73	-56.96	-1.25	-2.52	-13.00	-47.73
3465.00	-48.18	-55.34	12.64	-5.48	-13.00	-35.18
5197.50	-49.13	-55.43	12.99	-6.69	-13.00	-36.13
6930.00	-34.70	-38.22	11.34	-7.82	-13.00	-21.70
8662.50	-44.70	-47.23	11.35	-8.82	-13.00	-31.70
10395.00	-36.74	-38.17	11.12	-9.69	-13.00	-23.74

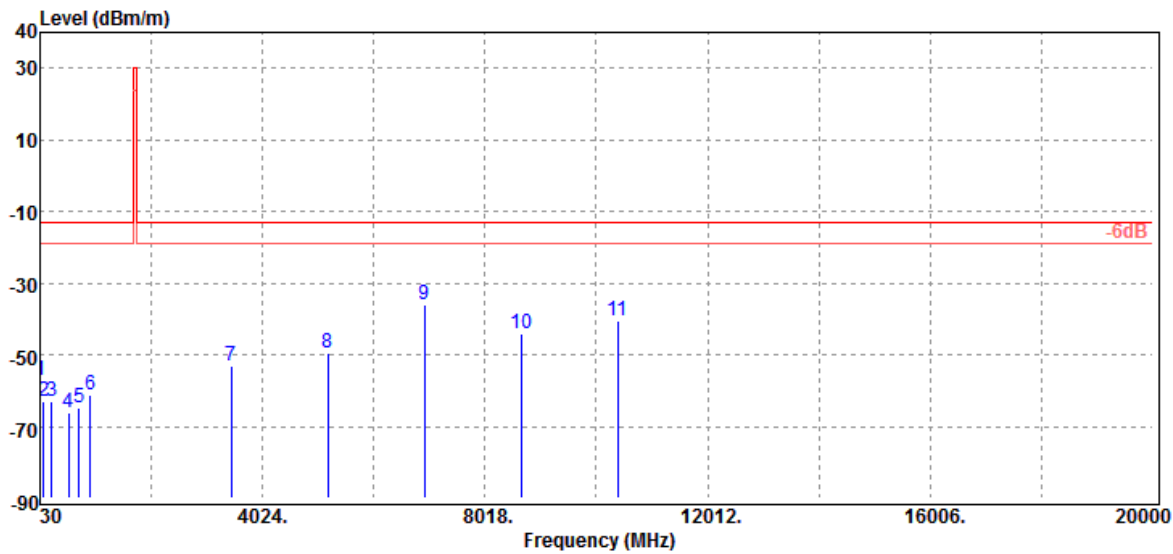
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Project Number : T190328W01  
Operation Band : LTE B4 20M QPSK 1,0  
Fundamental Frequency : 1732.5 MHz  
Operation Mode : TX CH MID  
EUT Pol. : H Plan

Test Date : 2019-04-17  
Temp./Humi. : 19/53  
Engineer : Kane  
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-57.06	-26.56	-30.05	-0.45	-13.00	-44.06
99.84	-62.86	-53.72	-8.32	-0.82	-13.00	-49.86
237.58	-62.87	-59.45	-2.15	-1.27	-13.00	-49.87
541.19	-66.13	-62.96	-1.23	-1.94	-13.00	-53.13
726.46	-64.87	-61.18	-1.42	-2.27	-13.00	-51.87
936.95	-61.17	-57.26	-1.31	-2.60	-13.00	-48.17
3465.00	-53.01	-60.17	12.64	-5.48	-13.00	-40.01
5197.50	-49.69	-55.99	12.99	-6.69	-13.00	-36.69
6930.00	-36.12	-39.64	11.34	-7.82	-13.00	-23.12
8662.50	-44.26	-46.79	11.35	-8.82	-13.00	-31.26
10395.00	-40.42	-41.85	11.12	-9.69	-13.00	-27.42

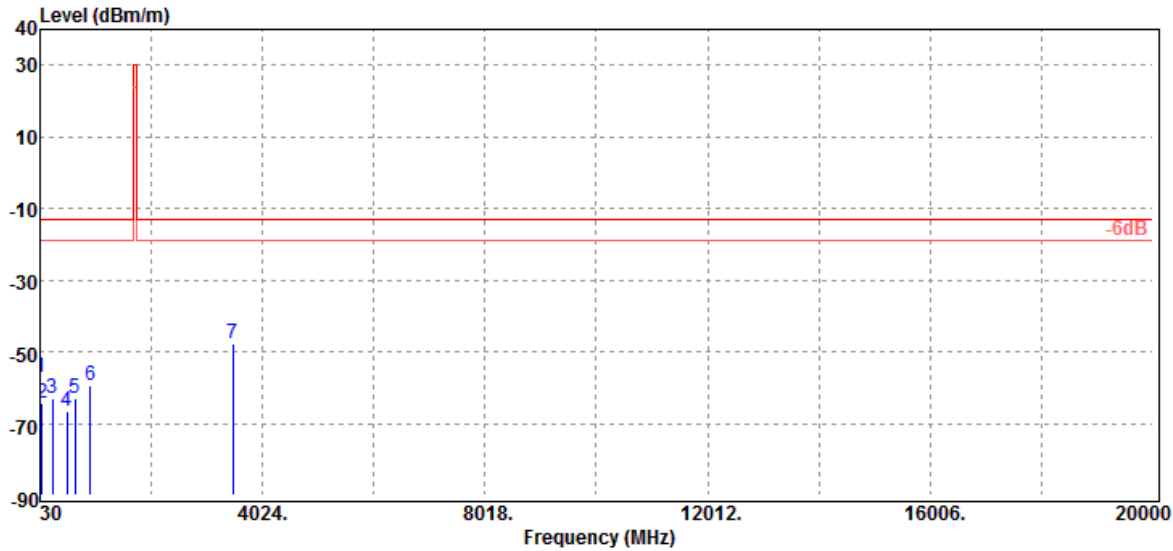
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Project Number : T190328W01  
Operation Band : LTE B4 20M QPSK 1,0  
Fundamental Frequency : 1745 MHz  
Operation Mode : TX CH HIGH  
EUT Pol. : H Plan

Test Date : 2019-04-17  
Temp./Humi. : 19/53  
Engineer : Kane  
Measurement Antenna Pol. : VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-57.33	-26.83	-30.05	-0.45	-13.00	-44.33
72.68	-64.21	-54.13	-9.38	-0.70	-13.00	-51.21
253.10	-63.05	-60.11	-1.63	-1.31	-13.00	-50.05
520.82	-66.72	-63.38	-1.43	-1.91	-13.00	-53.72
664.38	-62.94	-59.32	-1.45	-2.17	-13.00	-49.94
926.28	-59.46	-55.56	-1.32	-2.58	-13.00	-46.46
3490.00	-47.88	-54.9	12.54	-5.52	-13.00	-34.88

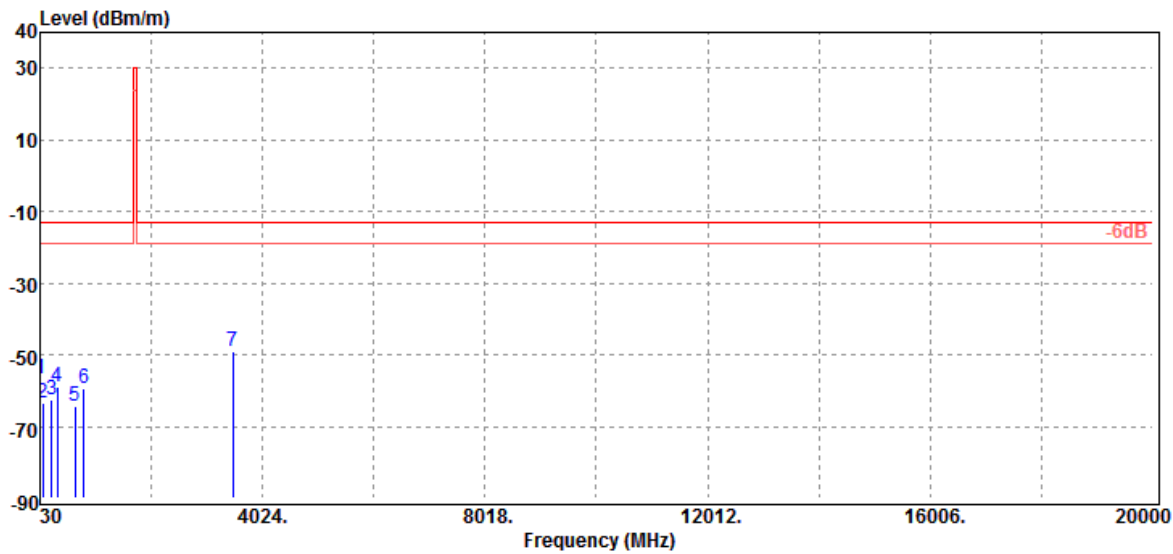
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Project Number : T190328W01  
Operation Band : LTE B4 20M QPSK 1,0  
Fundamental Frequency : 1745 MHz  
Operation Mode : TX CH HIGH  
EUT Pol. : H Plan

Test Date : 2019-04-17  
Temp./Humi. : 19/53  
Engineer : Kane  
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-56.80	-26.3	-30.05	-0.45	-13.00	-43.80
83.35	-63.31	-54.44	-8.11	-0.76	-13.00	-50.31
239.52	-62.54	-59.11	-2.15	-1.28	-13.00	-49.54
340.40	-58.83	-55.85	-1.45	-1.53	-13.00	-45.83
652.74	-64.40	-60.6	-1.65	-2.15	-13.00	-51.40
821.52	-59.32	-55.37	-1.52	-2.43	-13.00	-46.32
3490.00	-48.94	-55.96	12.54	-5.52	-13.00	-35.94

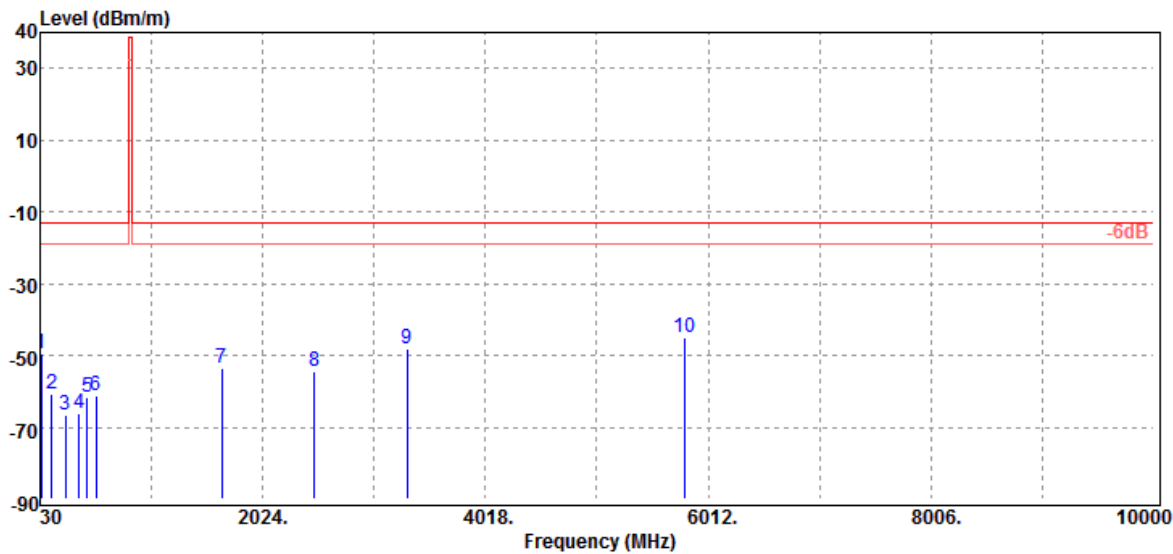
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## Radiated Spurious Emission Measurement Result: LTE-Band 5 (The Worst Case)

Project Number	: T190328W01	Test Date	: 2019-04-18
Operation Band	: LTE B5 10M QPSK 1,0	Temp./Humi.	: 19/53
Fundamental Frequency	: 829 MHz	Engineer	: Kane
Operation Mode	: TX CH LOW	Measurement Antenna Pol.	: VERTICAL
EUT Pol.	: H Plan		



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
41.64	-49.54	-30.52	-18.48	-0.54	-13.00	-36.54
136.70	-60.76	-50.73	-9.07	-0.96	-13.00	-47.76
257.95	-66.50	-63.44	-1.73	-1.33	-13.00	-53.50
378.23	-65.94	-62.74	-1.59	-1.61	-13.00	-52.94
450.01	-61.68	-57.87	-2.05	-1.76	-13.00	-48.68
533.43	-61.18	-57.97	-1.28	-1.93	-13.00	-48.18
1658.00	-53.43	-59.62	9.75	-3.56	-13.00	-40.43
2487.00	-54.52	-60.76	10.75	-4.51	-13.00	-41.52
3316.00	-47.96	-55.31	12.70	-5.35	-13.00	-34.96
5803.00	-45.10	-50.91	13.01	-7.20	-13.00	-32.10

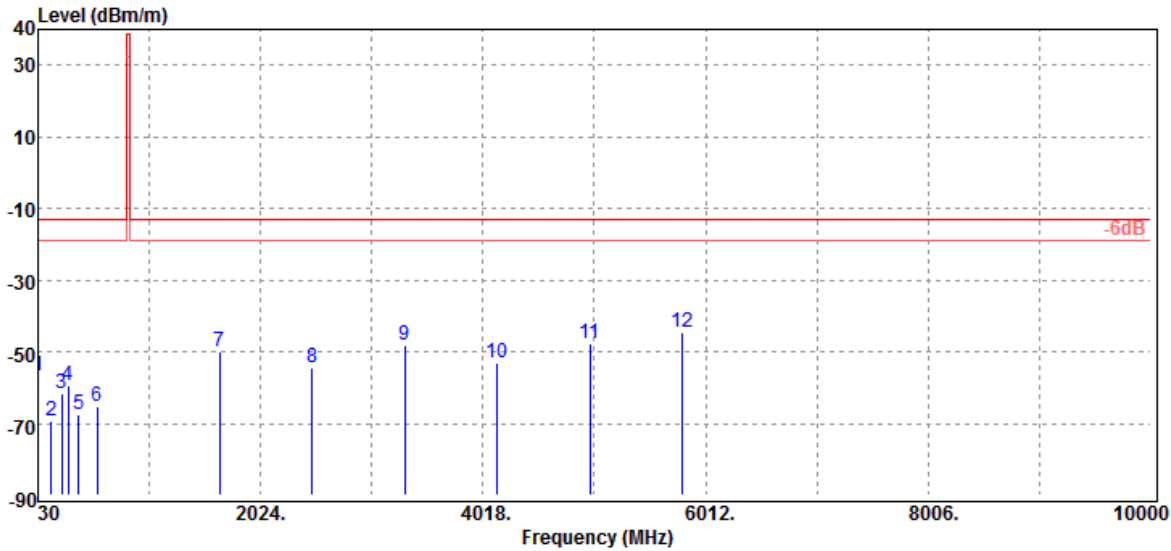
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Project Number : T190328W01  
Operation Band : LTE B5 10M QPSK 1,0  
Fundamental Frequency : 829 MHz  
Operation Mode : TX CH LOW  
EUT Pol. : H Plan

Test Date : 2019-04-18  
Temp./Humi. : 19/53  
Engineer : Kane  
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-56.60	-26.1	-30.05	-0.45	-13.00	-43.60
150.28	-69.31	-61.17	-7.13	-1.01	-13.00	-56.31
239.52	-61.56	-58.13	-2.15	-1.28	-13.00	-48.56
303.54	-59.29	-55.9	-1.95	-1.44	-13.00	-46.29
393.75	-67.52	-64.34	-1.53	-1.65	-13.00	-54.52
559.62	-65.07	-61.75	-1.35	-1.97	-13.00	-52.07
1658.00	-50.18	-56.37	9.75	-3.56	-13.00	-37.18
2487.00	-54.36	-60.6	10.75	-4.51	-13.00	-41.36
3316.00	-48.25	-55.6	12.70	-5.35	-13.00	-35.25
4145.00	-53.05	-59.88	12.89	-6.06	-13.00	-40.05
4974.00	-47.65	-53.54	12.55	-6.66	-13.00	-34.65
5803.00	-44.77	-50.58	13.01	-7.20	-13.00	-31.77

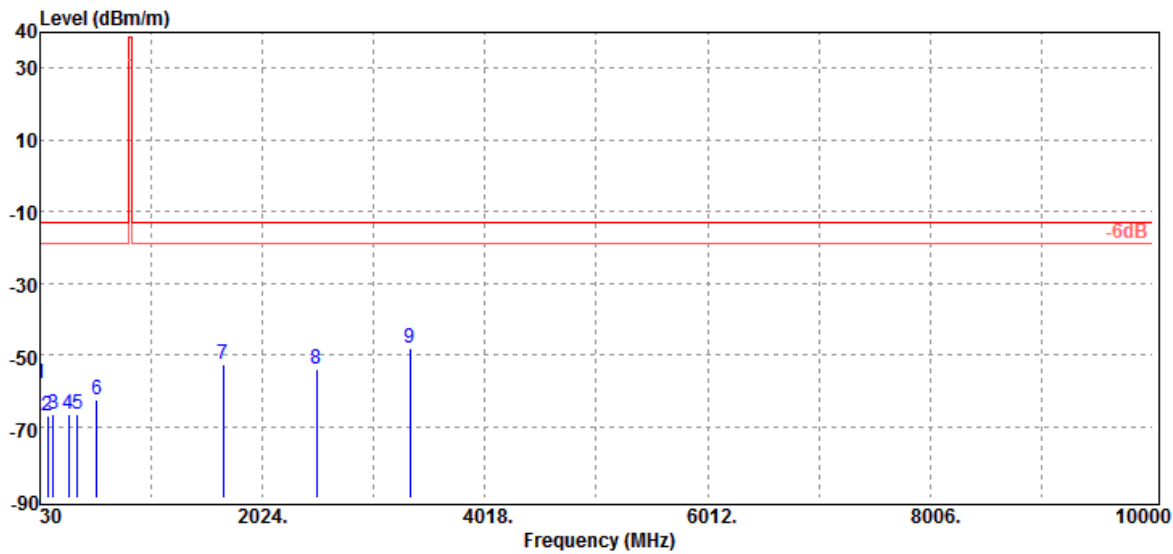
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Project Number : T190328W01  
Operation Band : LTE B5 10M QPSK 1,0  
Fundamental Frequency : 836.5 MHz  
Operation Mode : TX CH MID  
EUT Pol. : H Plan

Test Date : 2019-04-18  
Temp./Humi. : 19/53  
Engineer : Kane  
Measurement Antenna Pol. : VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-58.06	-27.56	-30.05	-0.45	-13.00	-45.06
101.78	-67.18	-57.64	-8.71	-0.83	-13.00	-54.18
145.43	-66.57	-57.97	-7.61	-0.99	-13.00	-53.57
285.11	-66.42	-62.58	-2.44	-1.40	-13.00	-53.42
366.59	-66.41	-63.07	-1.75	-1.59	-13.00	-53.41
537.31	-62.37	-59.19	-1.25	-1.93	-13.00	-49.37
1673.00	-52.47	-58.73	9.84	-3.58	-13.00	-39.47
2509.50	-53.87	-60.08	10.80	-4.59	-13.00	-40.87
3346.00	-48.13	-55.64	12.88	-5.37	-13.00	-35.13

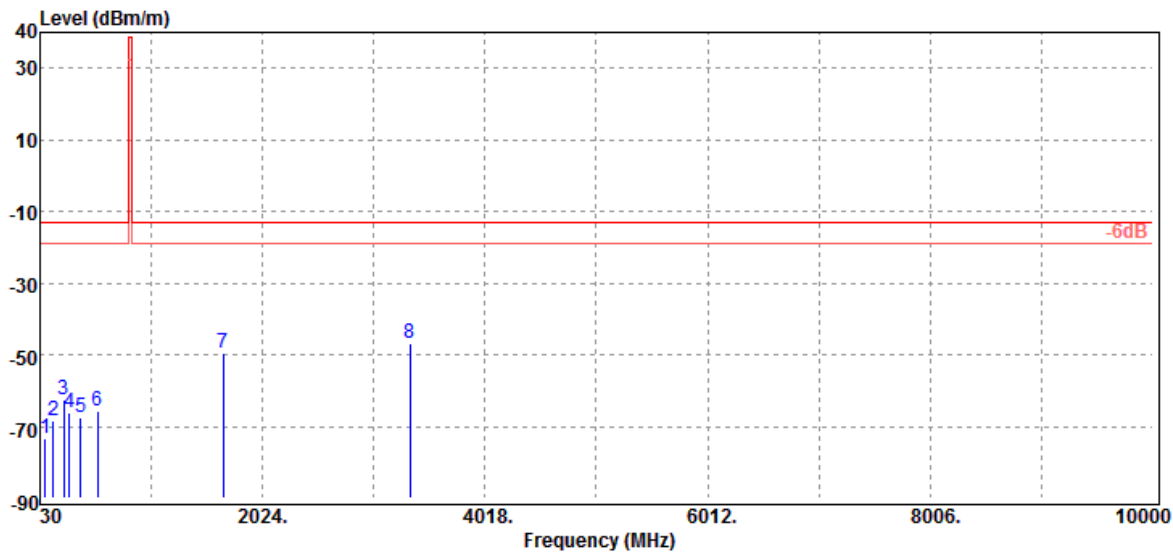
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Project Number : T190328W01  
Operation Band : LTE B5 10M QPSK 1,0  
Fundamental Frequency : 836.5 MHz  
Operation Mode : TX CH MID  
EUT Pol. : H Plan

Test Date : 2019-04-18  
Temp./Humi. : 19/53  
Engineer : Kane  
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
78.50	-73.27	-63.88	-8.66	-0.73	-13.00	-60.27
145.43	-68.63	-60.03	-7.61	-0.99	-13.00	-55.63
245.34	-62.53	-59.3	-1.94	-1.29	-13.00	-49.53
296.75	-66.05	-62.55	-2.08	-1.42	-13.00	-53.05
391.81	-67.73	-64.6	-1.49	-1.64	-13.00	-54.73
545.07	-65.56	-62.47	-1.15	-1.94	-13.00	-52.56
1673.00	-49.42	-55.68	9.84	-3.58	-13.00	-36.42
3346.00	-46.87	-54.38	12.88	-5.37	-13.00	-33.87

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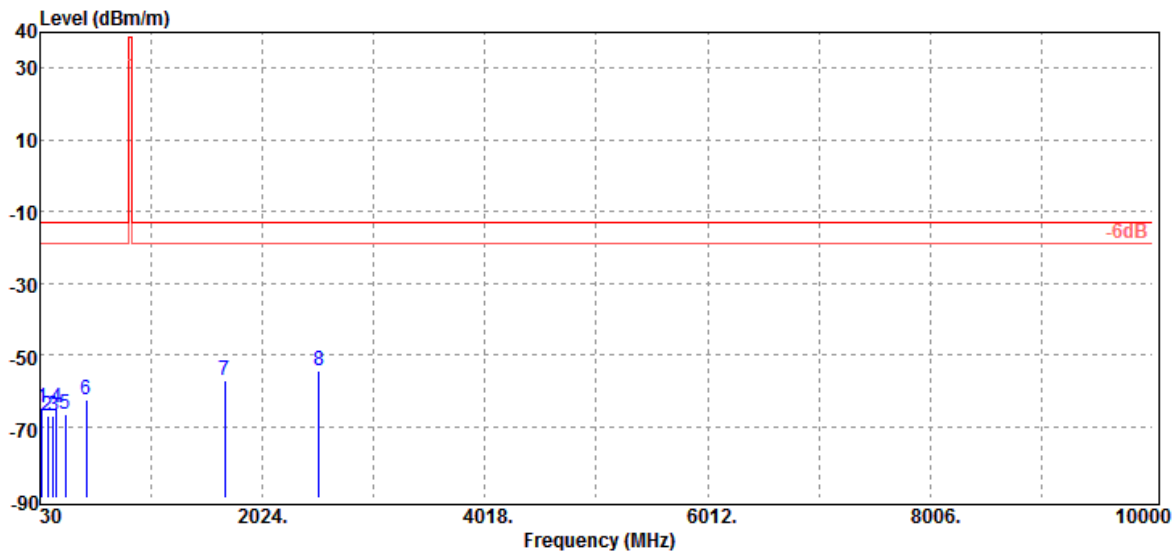
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Project Number : T190328W01  
Operation Band : LTE B5 10M QPSK 1,0  
Fundamental Frequency : 844 MHz  
Operation Mode : TX CH HIGH  
EUT Pol. : H Plan

Test Date : 2019-04-18  
Temp./Humi. : 19/53  
Engineer : Kane  
Measurement Antenna Pol. : VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
50.37	-64.98	-52.54	-11.84	-0.60	-13.00	-51.98
94.99	-67.22	-59.17	-7.25	-0.80	-13.00	-54.22
149.31	-66.95	-58.73	-7.22	-1.00	-13.00	-53.95
175.50	-64.78	-58.79	-4.90	-1.09	-13.00	-51.78
254.07	-66.52	-63.61	-1.59	-1.32	-13.00	-53.52
446.13	-62.46	-58.66	-2.05	-1.75	-13.00	-49.46
1688.00	-56.95	-63.29	9.93	-3.59	-13.00	-43.95
2532.00	-54.66	-60.87	10.80	-4.59	-13.00	-41.66

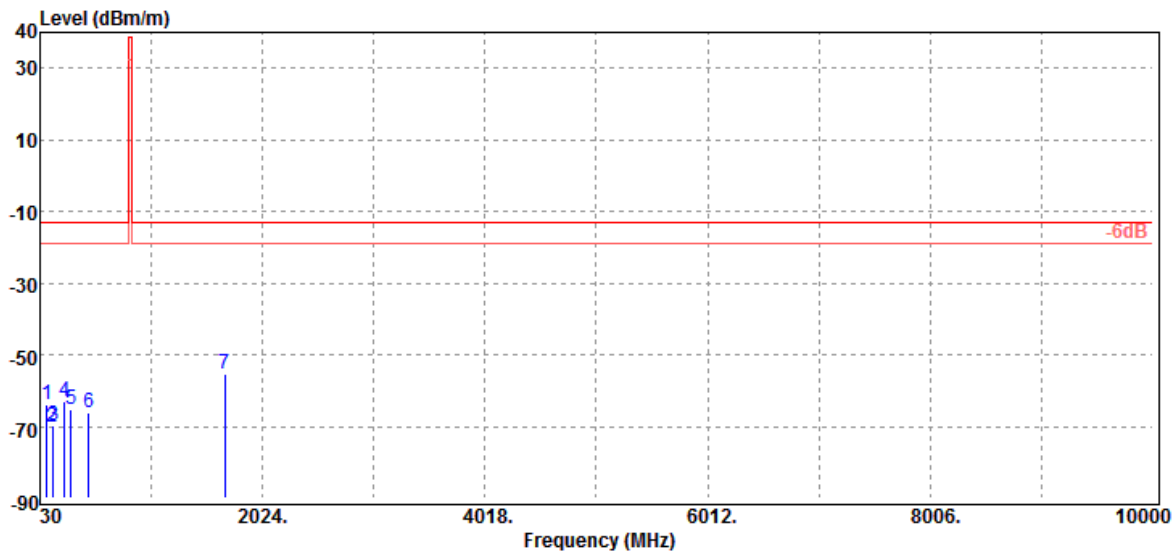
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Project Number : T190328W01  
Operation Band : LTE B5 10M QPSK 1,0  
Fundamental Frequency : 844 MHz  
Operation Mode : TX CH HIGH  
EUT Pol. : H Plan

Test Date : 2019-04-18  
Temp./Humi. : 19/53  
Engineer : Kane  
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
92.08	-64.07	-56.15	-7.13	-0.79	-13.00	-51.07
142.52	-70.32	-61.25	-8.09	-0.98	-13.00	-57.32
150.28	-69.89	-61.75	-7.13	-1.01	-13.00	-56.89
248.25	-63.20	-60.08	-1.82	-1.30	-13.00	-50.20
304.51	-65.18	-61.79	-1.95	-1.44	-13.00	-52.18
468.44	-66.27	-62.15	-2.32	-1.80	-13.00	-53.27
1688.00	-55.41	-61.75	9.93	-3.59	-13.00	-42.41

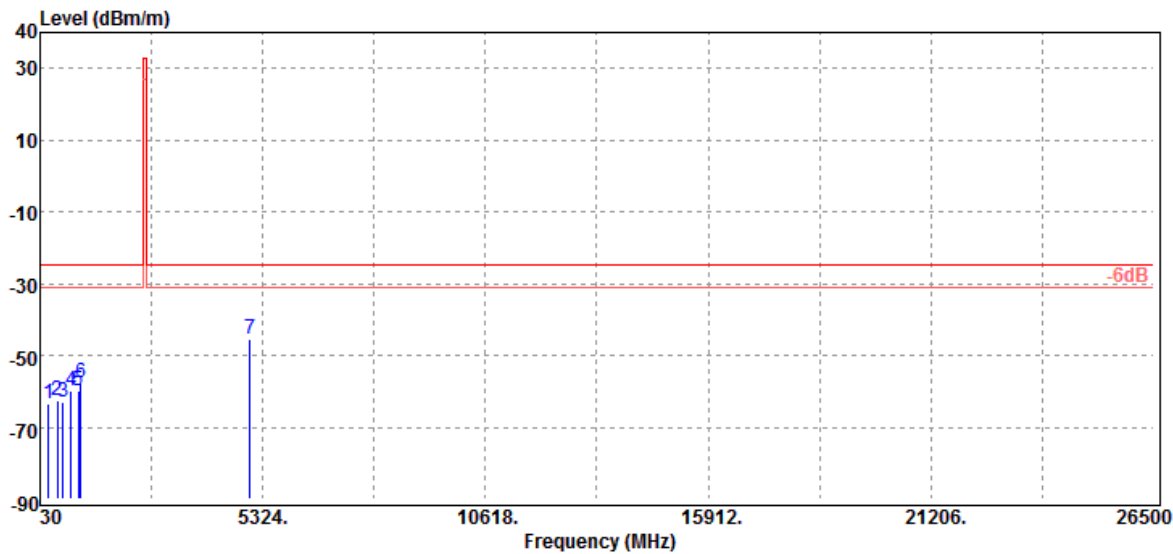
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**Radiated Spurious Emission Measurement Result: LTE-Band 7 (The Worst Case)**

Project Number	: T190328W01	Test Date	: 2019-04-17
Operation Band	: LTE B7 20M QPSK 1,0	Temp./Humi.	: 19/53
Fundamental Frequency	: 2510 MHz	Engineer	: Kane
Operation Mode	: TX CH LOW	Measurement Antenna Pol.	: VERTICAL
EUT Pol.	: H Plan		



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
223.03	-63.26	-60.14	-1.89	-1.23	-25.00	-38.26
444.19	-62.64	-58.84	-2.05	-1.75	-25.00	-37.64
574.17	-63.04	-59.58	-1.45	-2.01	-25.00	-38.04
773.02	-60.02	-56.27	-1.41	-2.34	-25.00	-35.02
934.04	-59.68	-55.76	-1.33	-2.59	-25.00	-34.68
1000.00	-57.71	-53.58	-1.45	-2.68	-25.00	-32.71
5020.00	-45.62	-51.47	12.46	-6.61	-25.00	-20.62

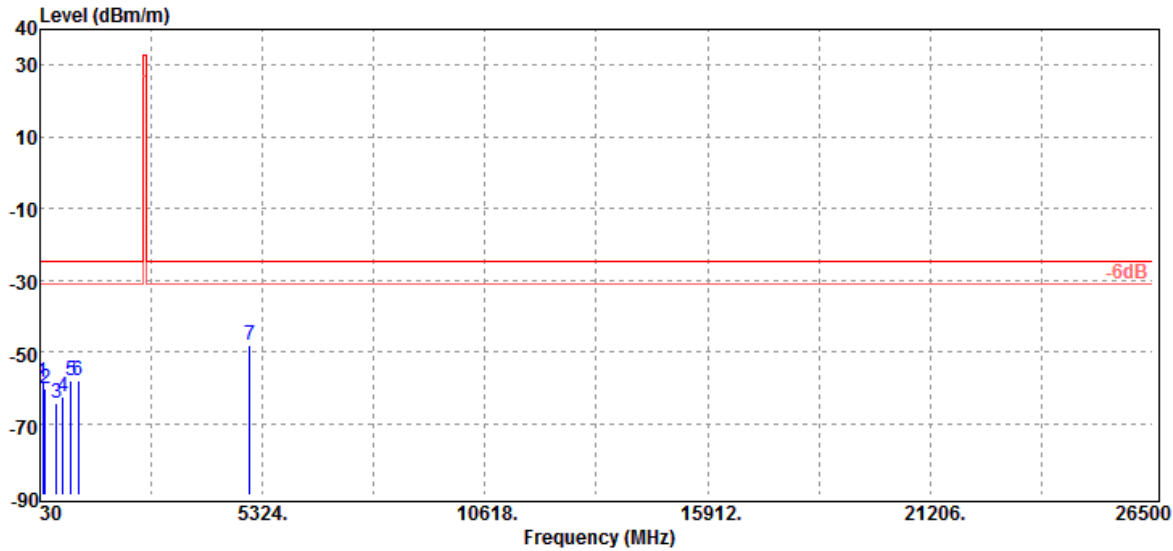
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Project Number : T190328W01  
Operation Band :LTE B7 20M QPSK 1,0  
Fundamental Frequency :2510 MHz  
Operation Mode :TX CH LOW  
EUT Pol. :H Plan

Test Date :2019-04-17  
Temp./Humi. :19/53  
Engineer :Kane  
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
100.81	-58.36	-49.01	-8.52	-0.83	-25.00	-33.36
163.86	-60.11	-53.12	-5.94	-1.05	-25.00	-35.11
424.79	-64.29	-60.73	-1.85	-1.71	-25.00	-39.29
575.14	-62.60	-59.14	-1.45	-2.01	-25.00	-37.60
775.93	-58.27	-54.48	-1.45	-2.34	-25.00	-33.27
936.95	-58.27	-54.36	-1.31	-2.60	-25.00	-33.27
5020.00	-48.01	-53.86	12.46	-6.61	-25.00	-23.01

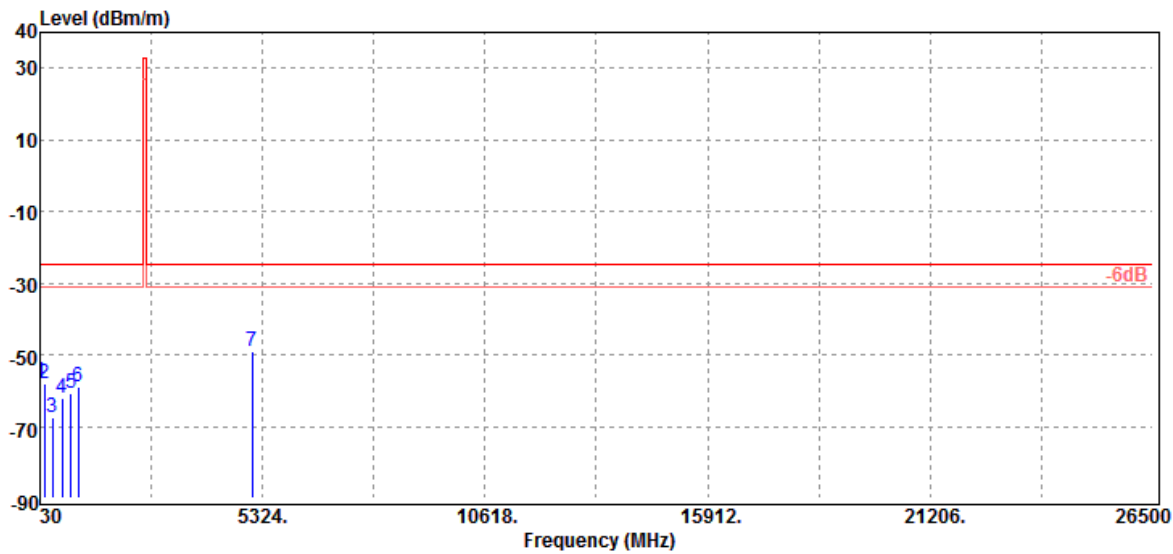
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Project Number : T190328W01  
Operation Band : LTE B7 20M QPSK 1,0  
Fundamental Frequency : 2535 MHz  
Operation Mode : TX CH MID  
EUT Pol. : H Plan

Test Date : 2019-04-17  
Temp./Humi. : 19/53  
Engineer : Kane  
Measurement Antenna Pol. : VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-57.52	-27.02	-30.05	-0.45	-25.00	-32.52
135.73	-57.99	-47.8	-9.23	-0.96	-25.00	-32.99
319.06	-67.43	-64.08	-1.87	-1.48	-25.00	-42.43
552.83	-61.93	-58.66	-1.31	-1.96	-25.00	-36.93
773.02	-60.92	-57.17	-1.41	-2.34	-25.00	-35.92
935.98	-59.07	-55.14	-1.33	-2.60	-25.00	-34.07
5070.00	-49.11	-54.84	12.48	-6.75	-25.00	-24.11

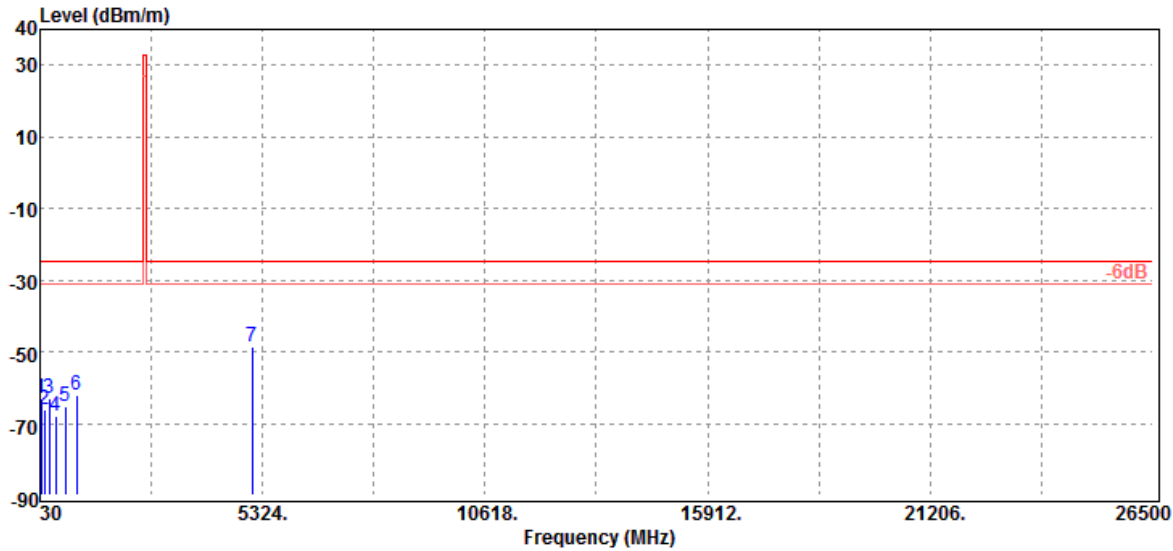
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Project Number : T190328W01  
Operation Band : LTE B7 20M QPSK 1,0  
Fundamental Frequency : 2535 MHz  
Operation Mode : TX CH MID  
EUT Pol. : H Plan

Test Date : 2019-04-17  
Temp./Humi. : 19/53  
Engineer : Kane  
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
59.10	-63.08	-52.06	-10.38	-0.64	-25.00	-38.08
138.64	-66.15	-56.42	-8.76	-0.97	-25.00	-41.15
247.28	-63.13	-59.97	-1.86	-1.30	-25.00	-38.13
400.54	-67.88	-64.56	-1.66	-1.66	-25.00	-42.88
635.28	-65.34	-61.57	-1.66	-2.11	-25.00	-40.34
900.09	-62.07	-58.28	-1.25	-2.54	-25.00	-37.07
5070.00	-48.50	-54.23	12.48	-6.75	-25.00	-23.50

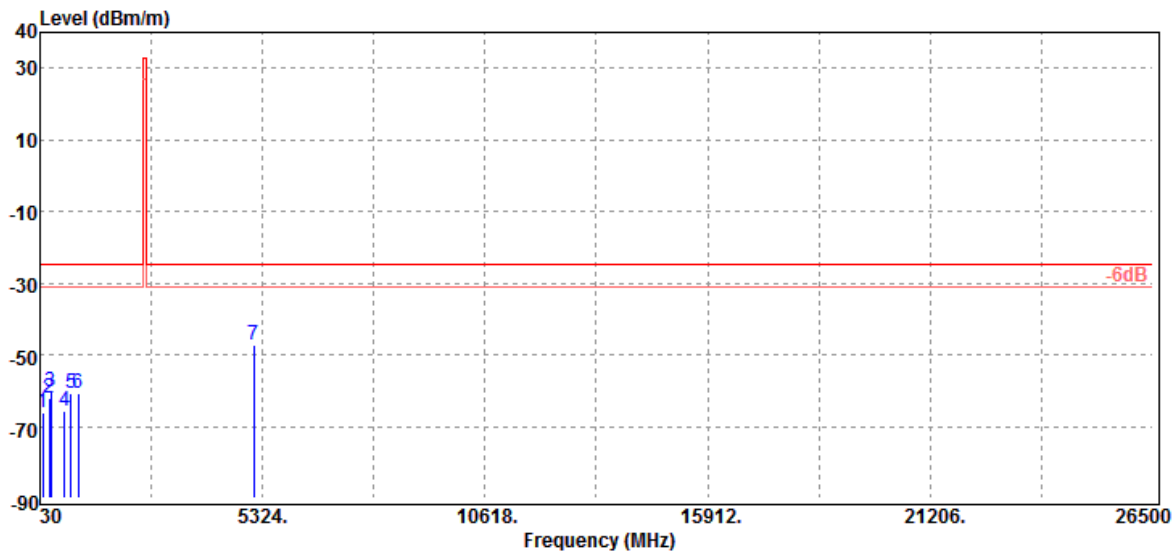
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Project Number : T190328W01  
Operation Band : LTE B7 20M QPSK 1,0  
Fundamental Frequency : 2560 MHz  
Operation Mode : TX CH HIGH  
EUT Pol. : H Plan

Test Date : 2019-04-17  
Temp./Humi. : 19/53  
Engineer : Kane  
Measurement Antenna Pol. : VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
94.99	-65.99	-57.94	-7.25	-0.80	-25.00	-40.99
244.37	-62.16	-58.9	-1.97	-1.29	-25.00	-37.16
293.84	-60.17	-56.6	-2.15	-1.42	-25.00	-35.17
612.97	-65.62	-62.33	-1.21	-2.08	-25.00	-40.62
775.93	-60.65	-56.86	-1.45	-2.34	-25.00	-35.65
936.95	-60.69	-56.78	-1.31	-2.60	-25.00	-35.69
5120.00	-47.41	-53.3	12.64	-6.75	-25.00	-22.41

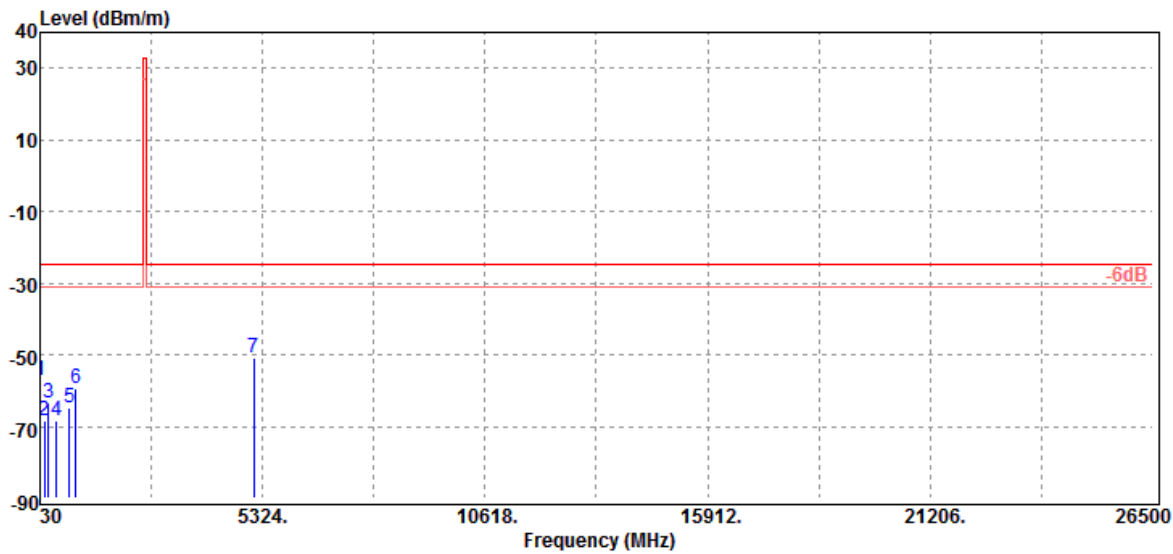
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Project Number : T190328W01  
Operation Band : LTE B7 20M QPSK 1,0  
Fundamental Frequency : 2560 MHz  
Operation Mode : TX CH HIGH  
EUT Pol. : H Plan

Test Date : 2019-04-17  
Temp./Humi. : 19/53  
Engineer : Kane  
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	-57.22	-28.65	-28.10	-0.47	-25.00	-32.22
143.49	-68.23	-59.32	-7.92	-0.99	-25.00	-43.23
238.55	-63.55	-60.13	-2.15	-1.27	-25.00	-38.55
430.61	-68.23	-64.65	-1.86	-1.72	-25.00	-43.23
737.13	-64.73	-61.09	-1.35	-2.29	-25.00	-39.73
879.72	-59.59	-55.83	-1.25	-2.51	-25.00	-34.59
5120.00	-50.82	-56.71	12.64	-6.75	-25.00	-25.82

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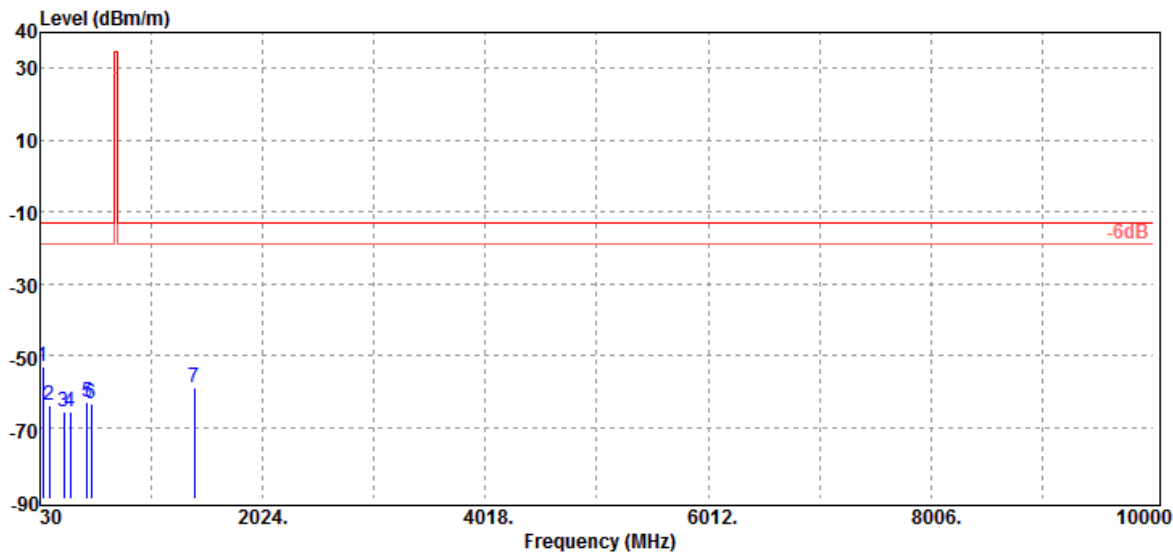
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### Radiated Spurious Emission Measurement Result: LTE-Band 12 (The Worst Case)

Project Number	: T190328W01	Test Date	: 2019-04-18
Operation Band	: LTE B12 10M QPSK 1,0	Temp./Humi.	: 19/53
Fundamental Frequency	: 704 MHz	Engineer	: Kane
Operation Mode	: TX CH LOW	Measurement Antenna Pol.	: VERTICAL
EUT Pol.	: H Plan		



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
55.22	-53.17	-42.01	-10.54	-0.62	-13.00	-40.17
115.36	-63.71	-52.37	-10.46	-0.88	-13.00	-50.71
240.49	-65.58	-62.17	-2.13	-1.28	-13.00	-52.58
303.54	-65.87	-62.48	-1.95	-1.44	-13.00	-52.87
453.89	-63.13	-59.31	-2.05	-1.77	-13.00	-50.13
486.87	-63.52	-59.37	-2.31	-1.84	-13.00	-50.52
1408.00	-58.94	-63.74	8.05	-3.25	-13.00	-45.94

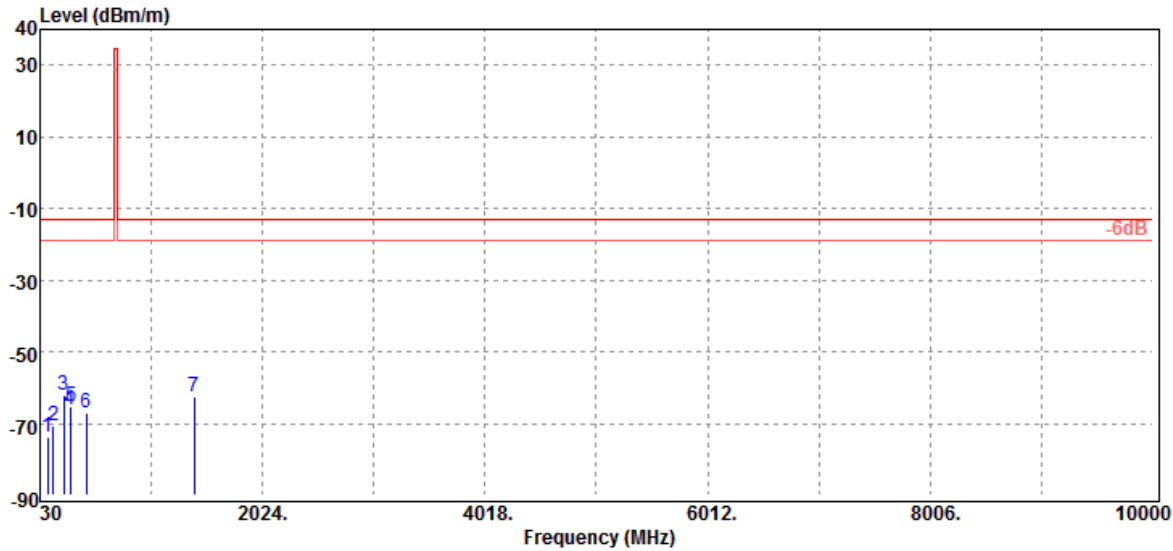
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Project Number : T190328W01  
Operation Band : LTE B12 10M QPSK 1,0  
Fundamental Frequency : 704 MHz  
Operation Mode : TX CH LOW  
EUT Pol. : H Plan

Test Date : 2019-04-18  
Temp./Humi. : 19/53  
Engineer : Kane  
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
101.78	-73.96	-64.42	-8.71	-0.83	-13.00	-60.96
149.31	-70.56	-62.34	-7.22	-1.00	-13.00	-57.56
242.43	-62.29	-58.96	-2.05	-1.28	-13.00	-49.29
300.63	-66.06	-62.68	-1.95	-1.43	-13.00	-53.06
309.36	-65.19	-61.78	-1.95	-1.46	-13.00	-52.19
444.19	-67.00	-63.2	-2.05	-1.75	-13.00	-54.00
1408.00	-62.34	-67.14	8.05	-3.25	-13.00	-49.34

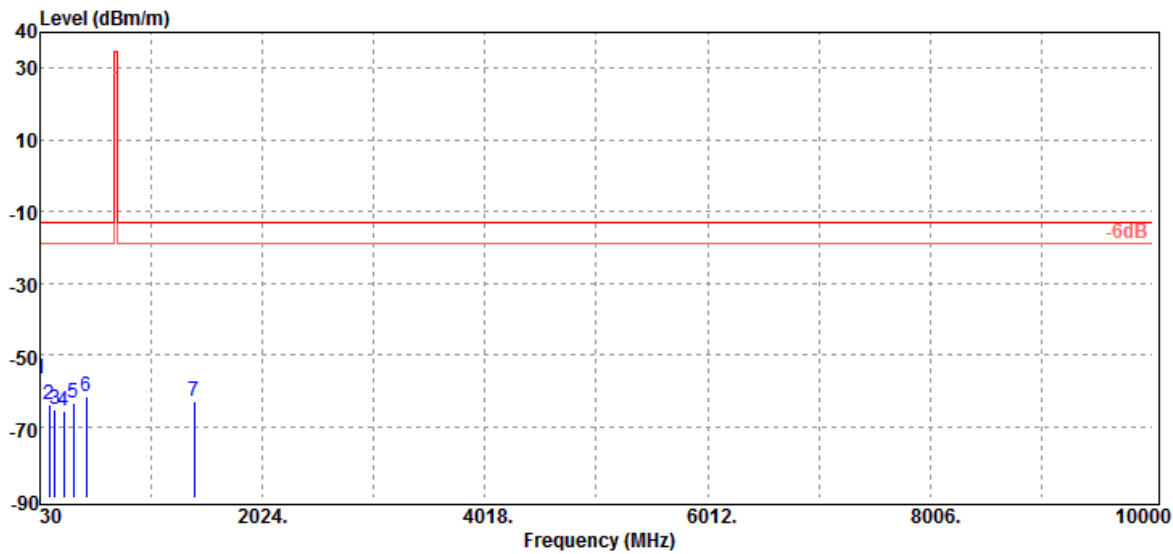
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Project Number : T190328W01  
Operation Band : LTE B12 10M QPSK 1,0  
Fundamental Frequency : 707.5 MHz  
Operation Mode : TX CH MID  
EUT Pol. : H Plan

Test Date : 2019-04-18  
Temp./Humi. : 19/53  
Engineer : Kane  
Measurement Antenna Pol. : VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
36.79	-56.75	-32.93	-23.31	-0.51	-13.00	-43.75
110.51	-63.96	-53.19	-9.91	-0.86	-13.00	-50.96
162.89	-65.12	-58.05	-6.02	-1.05	-13.00	-52.12
241.46	-65.71	-62.34	-2.09	-1.28	-13.00	-52.71
325.85	-63.51	-60.29	-1.73	-1.49	-13.00	-50.51
444.19	-61.50	-57.7	-2.05	-1.75	-13.00	-48.50
1415.00	-63.11	-67.94	8.09	-3.26	-13.00	-50.11

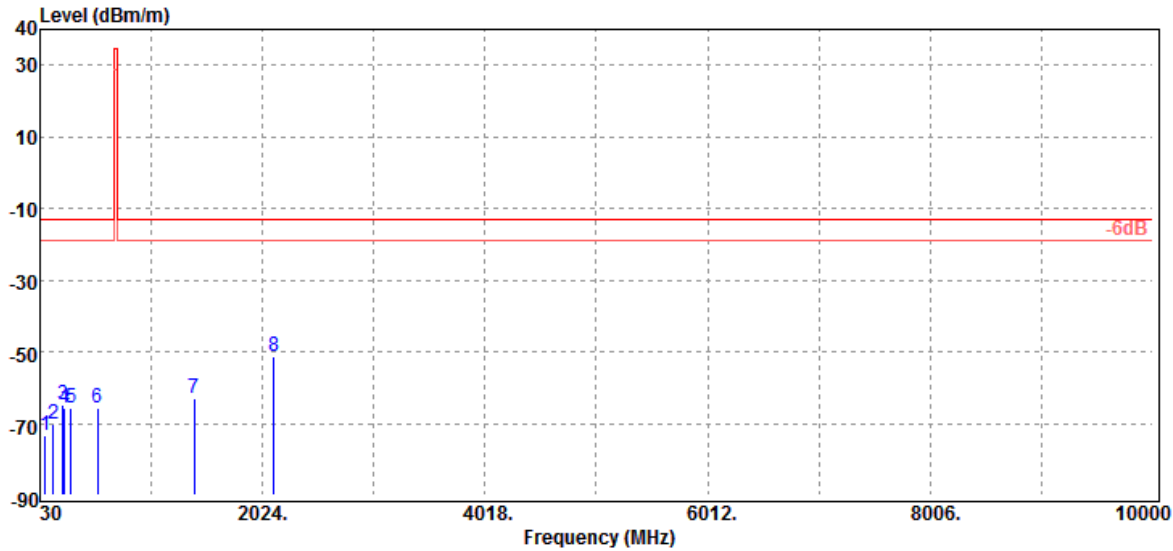
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Project Number : T190328W01  
Operation Band : LTE B12 10M QPSK 1,0  
Fundamental Frequency : 707.5 MHz  
Operation Mode : TX CH MID  
EUT Pol. : H Plan

Test Date : 2019-04-18  
Temp./Humi. : 19/53  
Engineer : Kane  
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
79.47	-73.53	-64.27	-8.52	-0.74	-13.00	-60.53
150.28	-70.41	-62.27	-7.13	-1.01	-13.00	-57.41
234.67	-64.95	-61.55	-2.14	-1.26	-13.00	-51.95
252.13	-65.73	-62.76	-1.66	-1.31	-13.00	-52.73
306.45	-65.51	-62.11	-1.95	-1.45	-13.00	-52.51
547.98	-65.52	-62.36	-1.21	-1.95	-13.00	-52.52
1415.00	-62.86	-67.69	8.09	-3.26	-13.00	-49.86
2122.50	-51.36	-56.87	9.62	-4.11	-13.00	-38.36

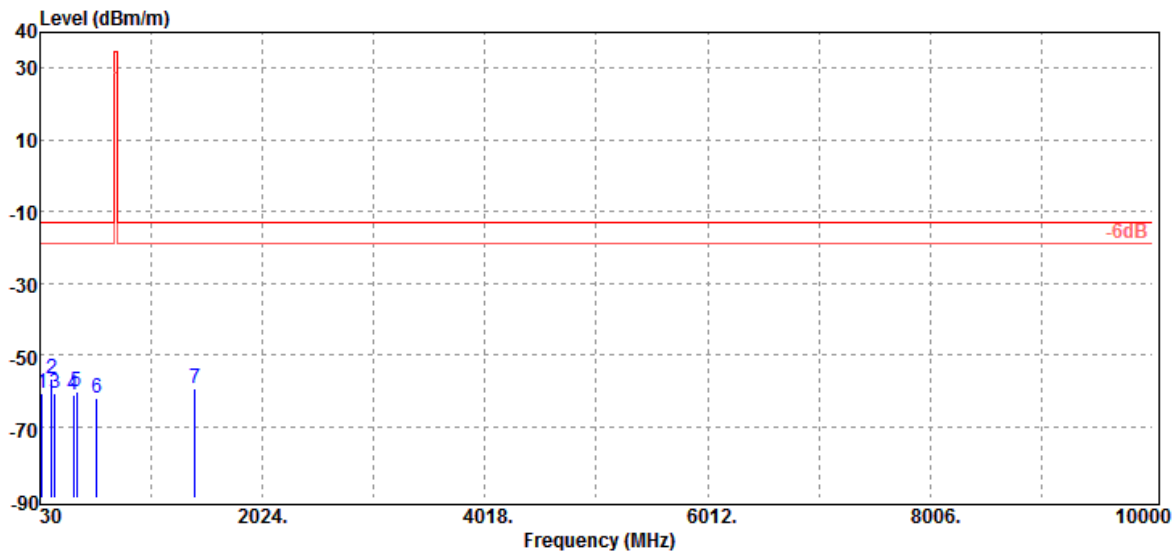
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Project Number : T190328W01  
Operation Band : LTE B12 10M QPSK 1,0  
Fundamental Frequency : 711 MHz  
Operation Mode : TX CH HIGH  
EUT Pol. : H Plan

Test Date : 2019-04-18  
Temp./Humi. : 19/53  
Engineer : Kane  
Measurement Antenna Pol. : VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
51.34	-60.90	-48.74	-11.56	-0.60	-13.00	-47.90
136.70	-56.53	-46.5	-9.07	-0.96	-13.00	-43.53
166.77	-60.62	-53.85	-5.71	-1.06	-13.00	-47.62
325.85	-61.26	-58.04	-1.73	-1.49	-13.00	-48.26
359.80	-60.46	-57.04	-1.85	-1.57	-13.00	-47.46
541.19	-62.03	-58.86	-1.23	-1.94	-13.00	-49.03
1422.00	-59.32	-64.18	8.13	-3.27	-13.00	-46.32

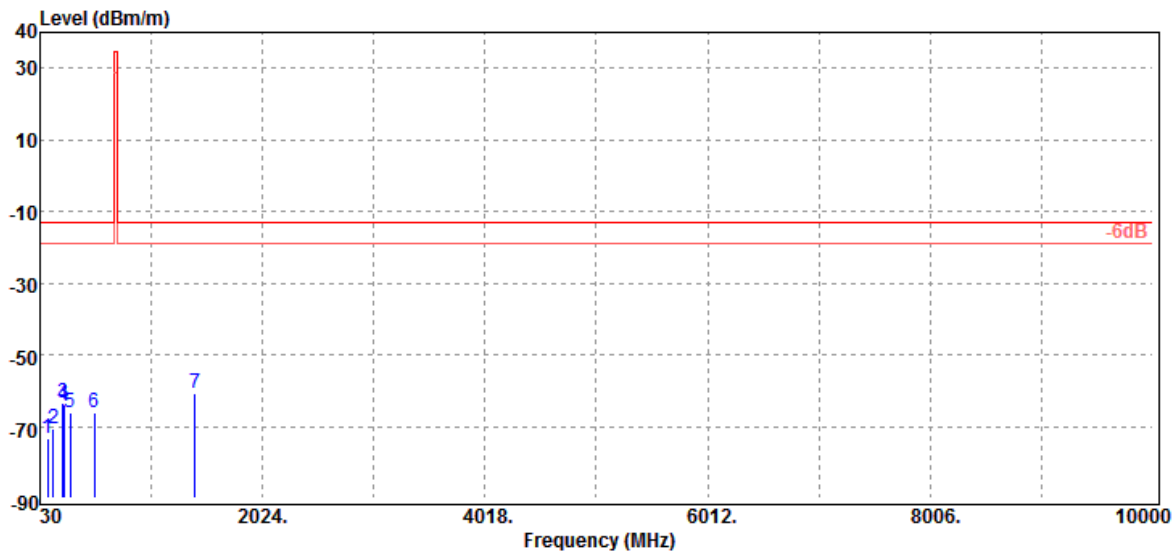
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Project Number : T190328W01  
Operation Band : LTE B12 10M QPSK 1,0  
Fundamental Frequency : 711 MHz  
Operation Mode : TX CH HIGH  
EUT Pol. : H Plan

Test Date : 2019-04-18  
Temp./Humi. : 19/53  
Engineer : Kane  
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
101.78	-73.36	-63.82	-8.71	-0.83	-13.00	-60.36
149.31	-70.53	-62.31	-7.22	-1.00	-13.00	-57.53
237.58	-63.26	-59.84	-2.15	-1.27	-13.00	-50.26
246.31	-63.75	-60.56	-1.90	-1.29	-13.00	-50.75
298.69	-66.00	-62.57	-2.00	-1.43	-13.00	-53.00
516.94	-66.04	-62.69	-1.45	-1.90	-13.00	-53.04
1422.00	-60.57	-65.43	8.13	-3.27	-13.00	-47.57

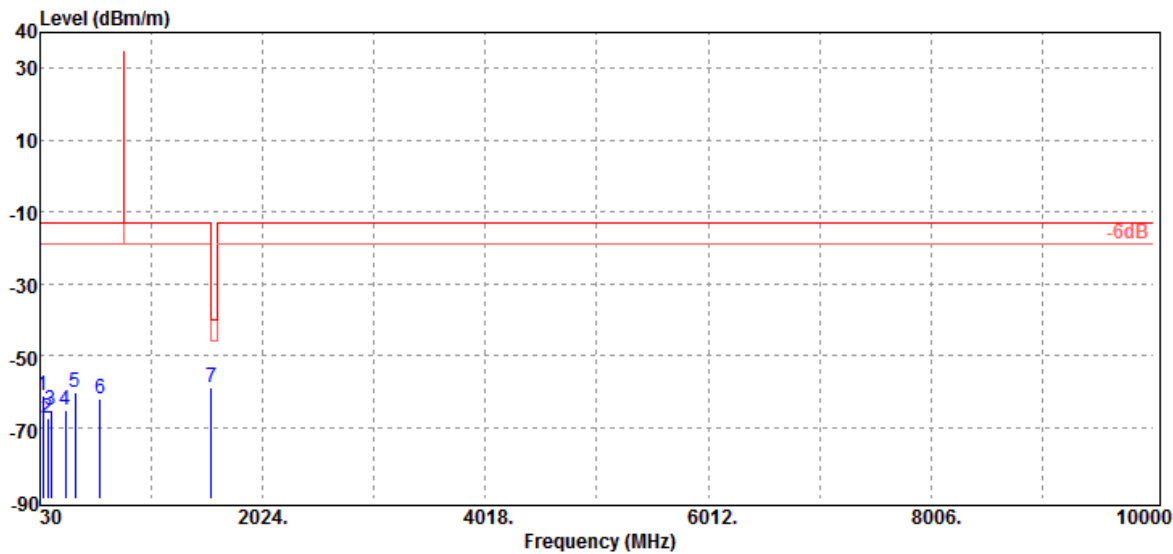
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**Radiated Spurious Emission Measurement Result: LTE-Band 13 (The Worst Case)**

Project Number	: T190328W01	Test Date	: 2019-04-18
Operation Band	: LTE B13 10M QPSK 1,49	Temp./Humi.	: 19/53
Fundamental Frequency	: 782 MHz	Engineer	: Kane
Operation Mode	: TX CH MID	Measurement Antenna Pol.	: VERTICAL
EUT Pol.	: H Plan		



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
52.31	-61.00	-49.1	-11.29	-0.61	-13.00	-48.00
100.81	-67.69	-58.34	-8.52	-0.83	-13.00	-54.69
127.00	-65.17	-53.91	-10.33	-0.93	-13.00	-52.17
257.95	-65.38	-62.32	-1.73	-1.33	-13.00	-52.38
340.40	-60.24	-57.26	-1.45	-1.53	-13.00	-47.24
564.47	-62.07	-58.73	-1.35	-1.99	-13.00	-49.07
1564.00	-59.08	-65.01	9.38	-3.45	-40.00	-19.08

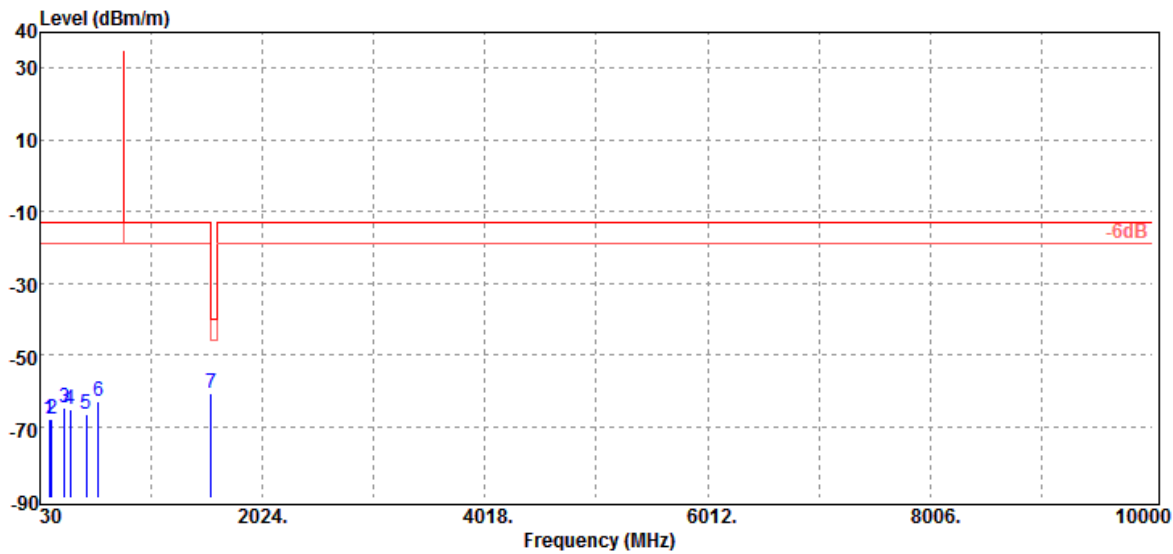
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Project Number : T190328W01  
Operation Band : LTE B13 10M QPSK 1,49  
Fundamental Frequency : 782 MHz  
Operation Mode : TX CH MID  
EUT Pol. : H Plan

Test Date : 2019-04-18  
Temp./Humi. : 19/53  
Engineer : Kane  
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
111.48	-67.95	-57.05	-10.03	-0.87	-13.00	-54.95
137.67	-68.03	-58.14	-8.92	-0.97	-13.00	-55.03
249.22	-64.65	-61.57	-1.78	-1.30	-13.00	-51.65
301.60	-65.06	-61.67	-1.95	-1.44	-13.00	-52.06
443.22	-66.40	-62.6	-2.05	-1.75	-13.00	-53.40
554.77	-63.22	-59.91	-1.35	-1.96	-13.00	-50.22
1564.00	-60.87	-66.8	9.38	-3.45	-40.00	-20.87

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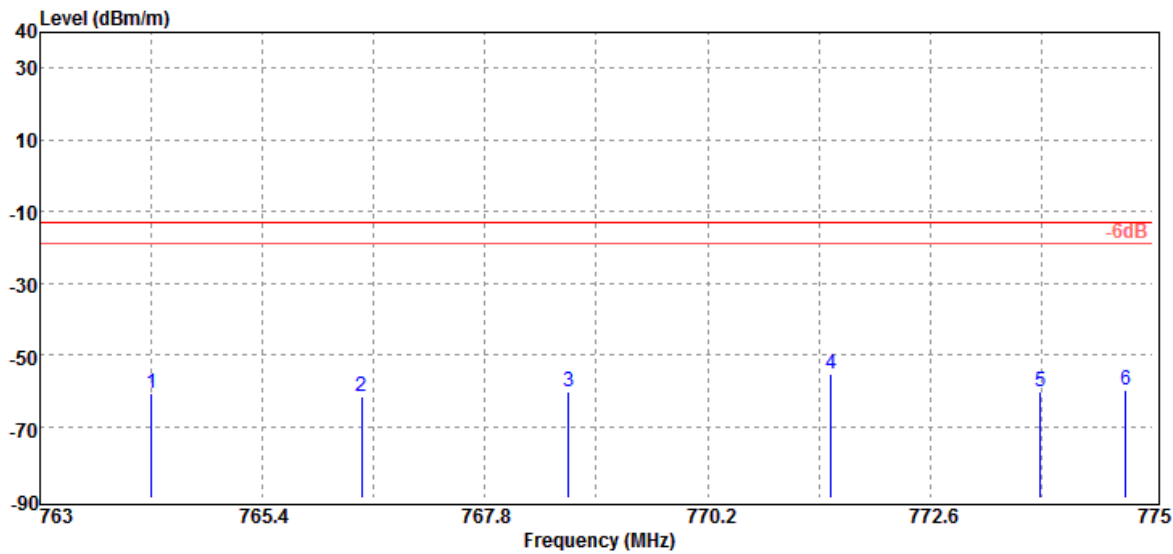
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## Radiated Spurious Emission Measurement Result: LTE-Band 13 (763~775MHz)

Project Number	: T190328W01	Test Date	: 2019-04-18
Operation Band	: LTE B13 10M QPSK 1,49	Temp./Humi.	: 19/53
Fundamental Frequency	: 782 MHz	Engineer	: Kane
Operation Mode	: TX CH MID	Measurement Antenna Pol.	: VERTICAL
EUT Pol.	: H Plan		



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
764.20	-60.71	-57.01	-1.37	-2.33	-13.00	-47.71
766.47	-61.56	-57.88	-1.35	-2.33	-13.00	-48.56
768.70	-60.27	-56.59	-1.35	-2.33	-13.00	-47.27
771.53	-55.52	-51.81	-1.38	-2.33	-13.00	-42.52
773.79	-60.27	-56.5	-1.43	-2.34	-13.00	-47.27
774.71	-59.93	-56.15	-1.44	-2.34	-13.00	-46.93

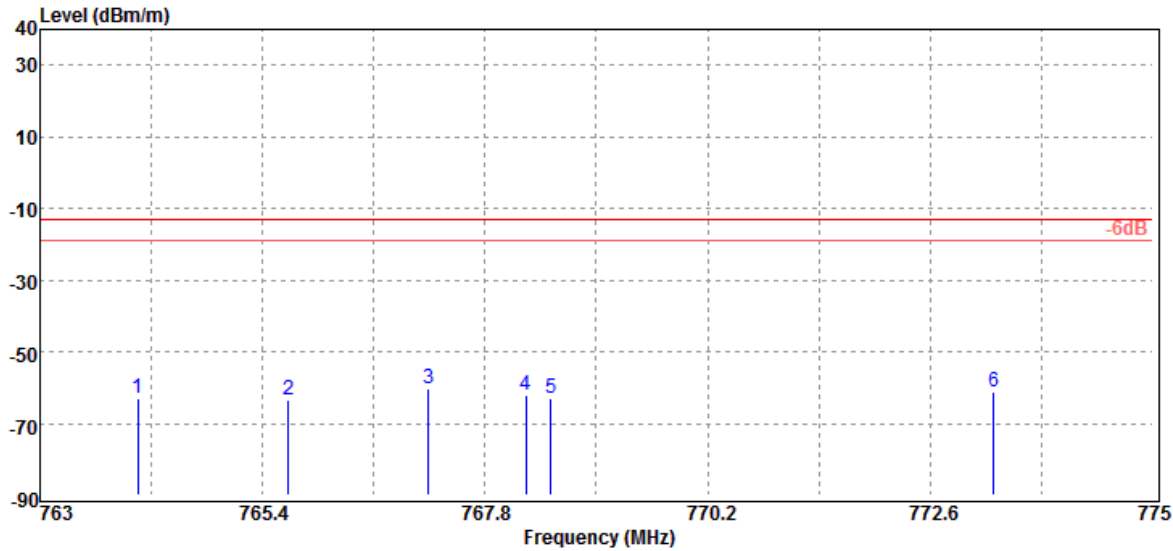
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Project Number : T190328W01  
Operation Band : LTE B13 10M QPSK 1,49  
Fundamental Frequency : 782 MHz  
Operation Mode : TX CH MID  
EUT Pol. : H Plan

Test Date : 2019-04-18  
Temp./Humi. : 19/53  
Engineer : Kane  
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
764.06	-62.81	-59.11	-1.37	-2.33	-13.00	-49.81
765.68	-63.57	-59.89	-1.35	-2.33	-13.00	-50.57
767.19	-60.45	-56.77	-1.35	-2.33	-13.00	-47.45
768.24	-62.17	-58.49	-1.35	-2.33	-13.00	-49.17
768.51	-62.96	-59.28	-1.35	-2.33	-13.00	-49.96
773.28	-61.16	-57.4	-1.42	-2.34	-13.00	-48.16

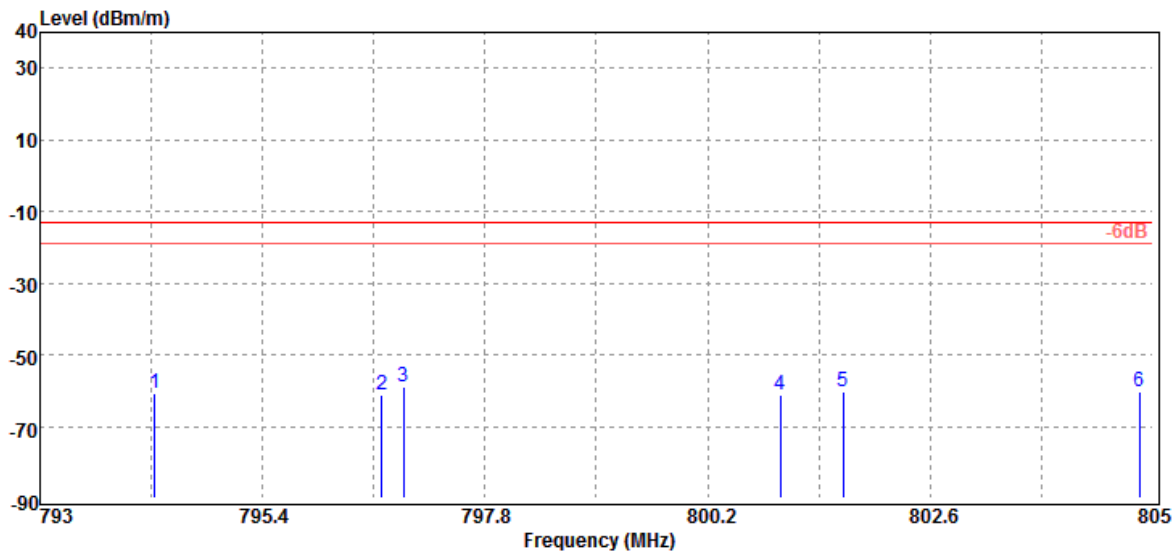
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## Radiated Spurious Emission Measurement Result: LTE-Band 13 (793~805MHz)

Project Number	: T190328W01	Test Date	: 2019-04-18
Operation Band	: LTE B13 10M QPSK 1,49	Temp./Humi.	: 19/53
Fundamental Frequency	: 782 MHz	Engineer	: Kane
Operation Mode	: TX CH MID	Measurement Antenna Pol.	: VERTICAL
EUT Pol.	: H Plan		



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
794.24	-60.84	-57.23	-1.25	-2.36	-13.00	-47.84
796.68	-61.10	-57.48	-1.25	-2.37	-13.00	-48.10
796.92	-59.08	-55.46	-1.25	-2.37	-13.00	-46.08
800.98	-61.28	-57.61	-1.29	-2.38	-13.00	-48.28
801.66	-60.28	-56.58	-1.32	-2.38	-13.00	-47.28
804.86	-60.41	-56.58	-1.44	-2.39	-13.00	-47.41

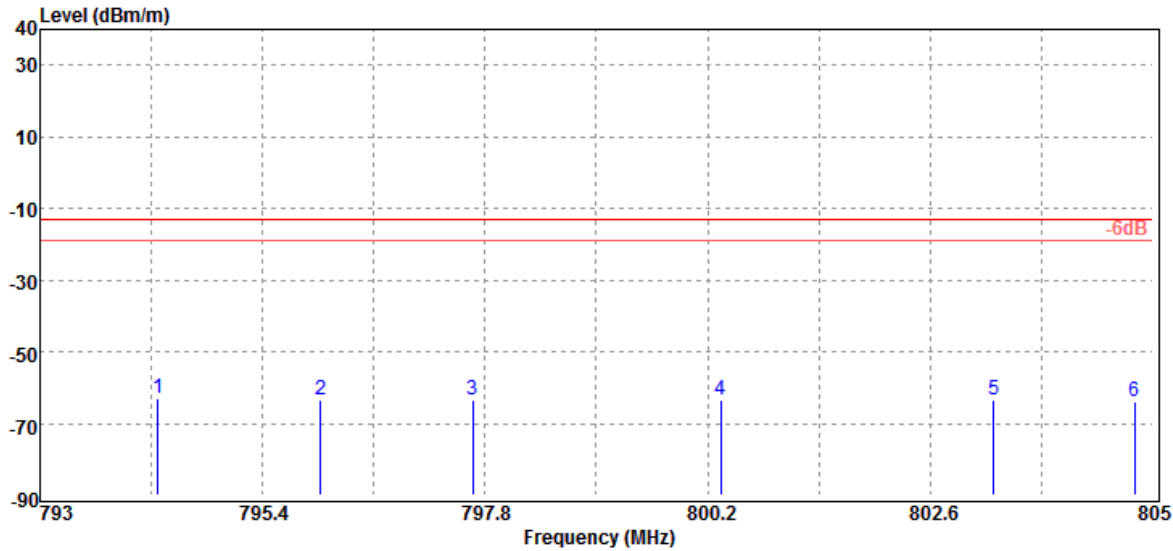
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Project Number : T190328W01  
Operation Band : LTE B13 10M QPSK 1,49  
Fundamental Frequency : 782 MHz  
Operation Mode : TX CH MID  
EUT Pol. : H Plan

Test Date : 2019-04-18  
Temp./Humi. : 19/53  
Engineer : Kane  
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
794.27	-63.18	-59.57	-1.25	-2.36	-13.00	-50.18
796.02	-63.28	-59.66	-1.25	-2.37	-13.00	-50.28
797.67	-63.30	-59.68	-1.25	-2.37	-13.00	-50.30
800.34	-63.30	-59.66	-1.26	-2.38	-13.00	-50.30
803.28	-63.62	-59.86	-1.38	-2.38	-13.00	-50.62
804.81	-63.69	-59.86	-1.44	-2.39	-13.00	-50.69

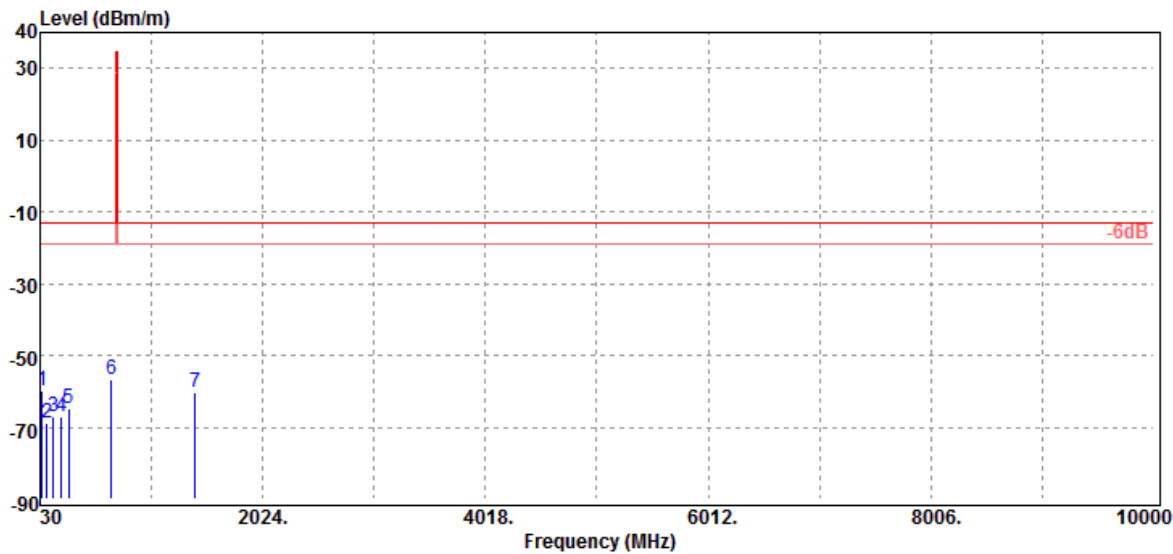
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**Radiated Spurious Emission Measurement Result: LTE-Band 17 (The Worst Case)**

Project Number	: T190328W01	Test Date	: 2019-04-18
Operation Band	: LTE B17 10M QPSK 1,0	Temp./Humi.	: 19/53
Fundamental Frequency	: 709 MHz	Engineer	: Kane
Operation Mode	: TX CH LOW	Measurement Antenna Pol.	: VERTICAL
EUT Pol.	: H Plan		



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
50.37	-59.73	-47.29	-11.84	-0.60	-13.00	-46.73
93.05	-68.87	-60.9	-7.17	-0.80	-13.00	-55.87
149.31	-67.21	-58.99	-7.22	-1.00	-13.00	-54.21
219.15	-67.27	-64.08	-1.97	-1.22	-13.00	-54.27
285.11	-64.74	-60.9	-2.44	-1.40	-13.00	-51.74
667.29	-56.50	-52.87	-1.45	-2.18	-13.00	-43.50
1418.00	-60.37	-65.21	8.11	-3.27	-13.00	-47.37

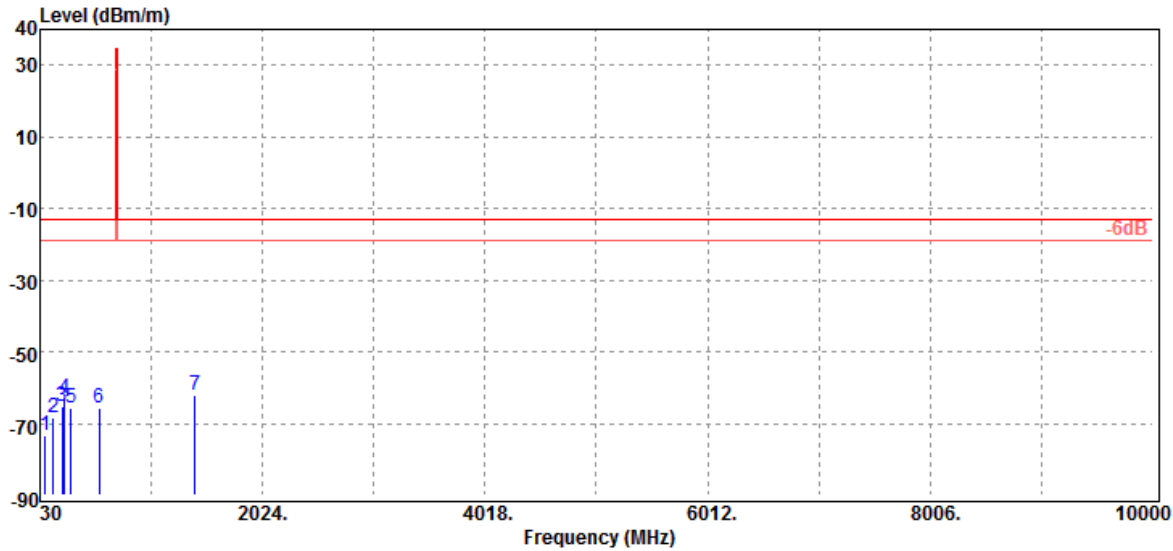
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Project Number : T190328W01  
Operation Band : LTE B17 10M QPSK 1,0  
Fundamental Frequency : 709 MHz  
Operation Mode : TX CH LOW  
EUT Pol. : H Plan

Test Date : 2019-04-18  
Temp./Humi. : 19/53  
Engineer : Kane  
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
79.47	-73.21	-63.95	-8.52	-0.74	-13.00	-60.21
151.25	-68.22	-60.16	-7.05	-1.01	-13.00	-55.22
230.79	-65.41	-62.09	-2.07	-1.25	-13.00	-52.41
247.28	-62.89	-59.73	-1.86	-1.30	-13.00	-49.89
309.36	-65.67	-62.26	-1.95	-1.46	-13.00	-52.67
560.59	-65.63	-62.3	-1.35	-1.98	-13.00	-52.63
1418.00	-62.22	-67.06	8.11	-3.27	-13.00	-49.22

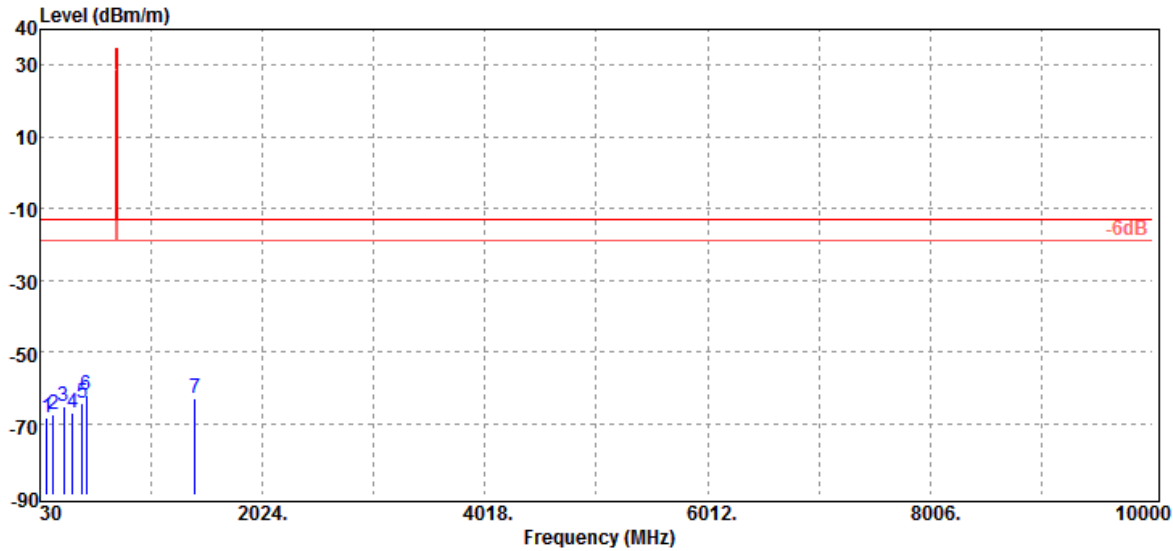
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Project Number : T190328W01  
Operation Band : LTE B17 10M QPSK 1,0  
Fundamental Frequency : 710 MHz  
Operation Mode : TX CH MID  
EUT Pol. : H Plan

Test Date : 2019-04-18  
Temp./Humi. : 19/53  
Engineer : Kane  
Measurement Antenna Pol. : VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
91.11	-68.57	-60.68	-7.10	-0.79	-13.00	-55.57
148.34	-67.65	-59.34	-7.31	-1.00	-13.00	-54.65
239.52	-65.22	-61.79	-2.15	-1.28	-13.00	-52.22
323.91	-67.13	-63.87	-1.77	-1.49	-13.00	-54.13
405.39	-64.27	-60.85	-1.75	-1.67	-13.00	-51.27
444.19	-61.94	-58.14	-2.05	-1.75	-13.00	-48.94
1420.00	-62.97	-67.82	8.12	-3.27	-13.00	-49.97

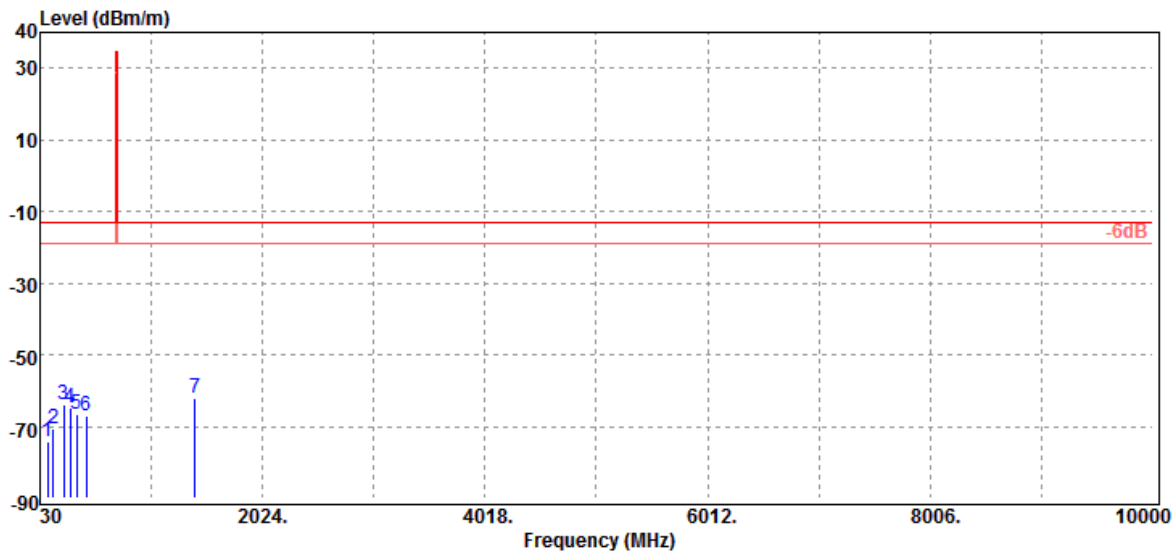
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Project Number : T190328W01  
Operation Band : LTE B17 10M QPSK 1,0  
Fundamental Frequency : 710 MHz  
Operation Mode : TX CH MID  
EUT Pol. : H Plan

Test Date : 2019-04-18  
Temp./Humi. : 19/53  
Engineer : Kane  
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
100.81	-74.16	-64.81	-8.52	-0.83	-13.00	-61.16
150.28	-70.88	-62.74	-7.13	-1.01	-13.00	-57.88
239.52	-64.02	-60.59	-2.15	-1.28	-13.00	-51.02
299.66	-64.84	-61.45	-1.96	-1.43	-13.00	-51.84
358.83	-66.80	-63.4	-1.83	-1.57	-13.00	-53.80
444.19	-67.18	-63.38	-2.05	-1.75	-13.00	-54.18
1420.00	-62.08	-66.93	8.12	-3.27	-13.00	-49.08

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

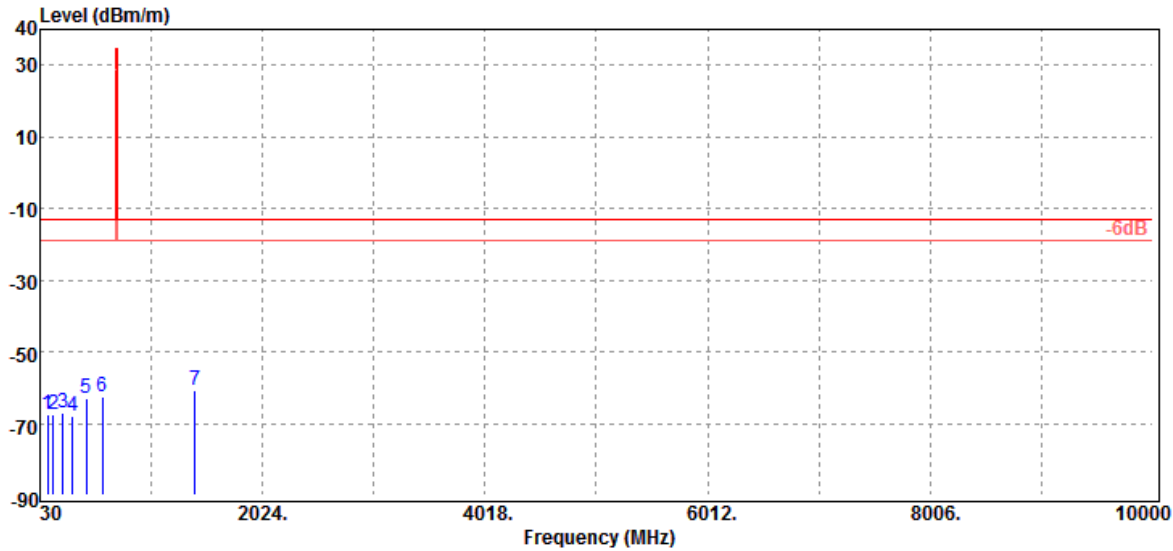
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Project Number : T190328W01  
Operation Band : LTE B17 10M QPSK 1,0  
Fundamental Frequency : 711 MHz  
Operation Mode : TX CH HIGH  
EUT Pol. : H Plan

Test Date : 2019-04-18  
Temp./Humi. : 19/53  
Engineer : Kane  
Measurement Antenna Pol. : VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
100.81	-67.47	-58.12	-8.52	-0.83	-13.00	-54.47
146.40	-67.29	-58.78	-7.51	-1.00	-13.00	-54.29
232.73	-66.85	-63.49	-2.10	-1.26	-13.00	-53.85
322.94	-67.95	-64.67	-1.79	-1.49	-13.00	-54.95
444.19	-63.23	-59.43	-2.05	-1.75	-13.00	-50.23
592.60	-62.41	-59.41	-0.95	-2.05	-13.00	-49.41
1422.00	-60.92	-65.78	8.13	-3.27	-13.00	-47.92

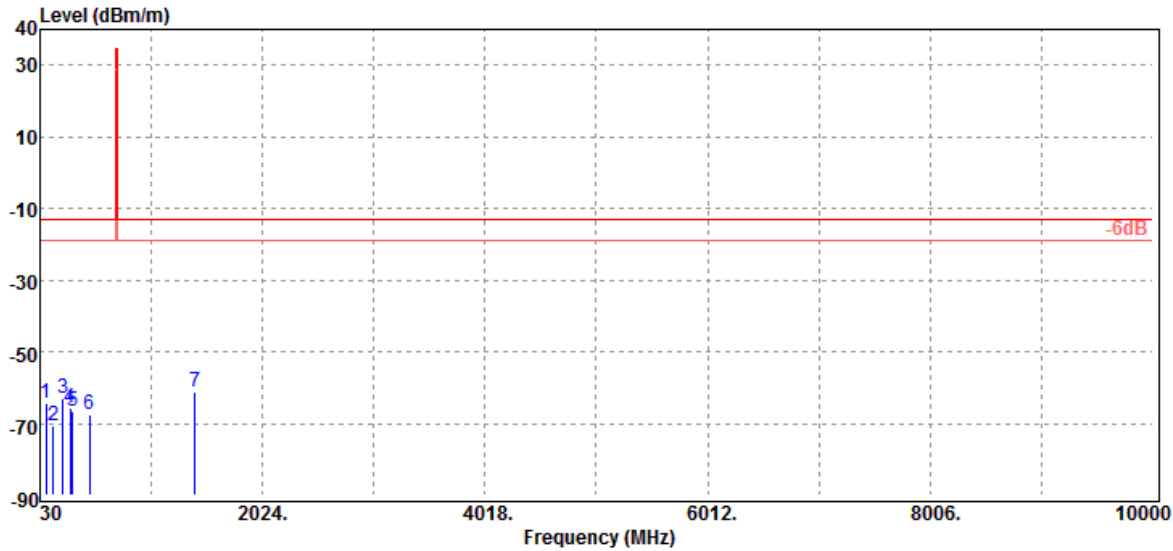
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Project Number : T190328W01  
Operation Band : LTE B17 10M QPSK 1,0  
Fundamental Frequency : 711 MHz  
Operation Mode : TX CH HIGH  
EUT Pol. : H Plan

Test Date : 2019-04-18  
Temp./Humi. : 19/53  
Engineer : Kane  
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
86.26	-64.56	-56.07	-7.72	-0.77	-13.00	-51.56
149.31	-70.44	-62.22	-7.22	-1.00	-13.00	-57.44
236.61	-63.05	-59.63	-2.15	-1.27	-13.00	-50.05
299.66	-65.84	-62.45	-1.96	-1.43	-13.00	-52.84
322.94	-66.63	-63.35	-1.79	-1.49	-13.00	-53.63
473.29	-67.43	-63.27	-2.35	-1.81	-13.00	-54.43
1422.00	-61.03	-65.89	8.13	-3.27	-13.00	-48.03

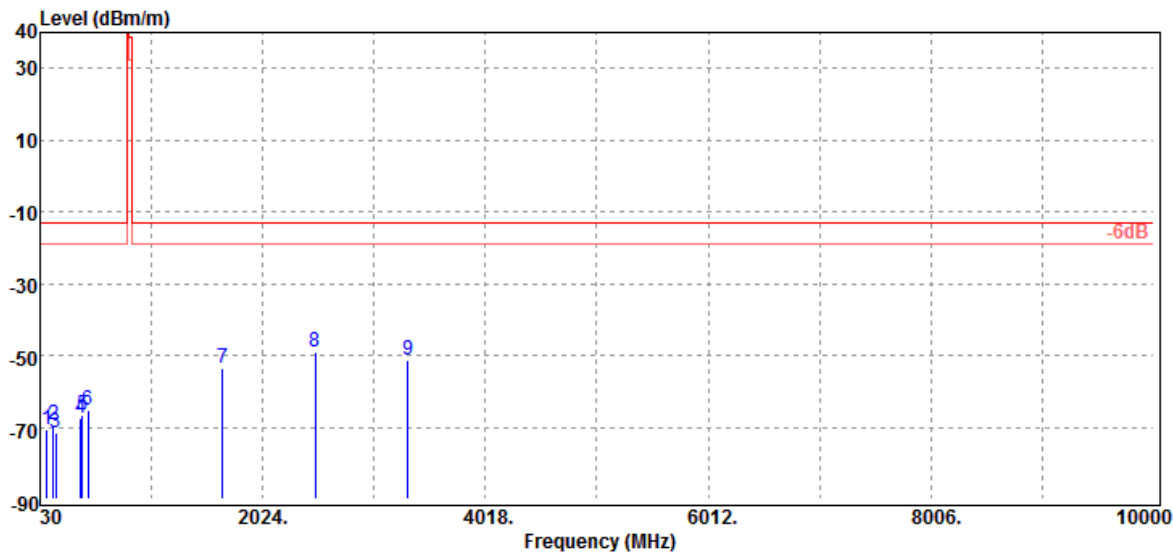
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**Radiated Spurious Emission Measurement Result: LTE-Band 26 (The Worst Case)**

Project Number	: T190328W01	Test Date	: 2019-04-18
Operation Band	: LTE B26 15M QPSK 1,0	Temp./Humi.	: 19/53
Fundamental Frequency	: 831.5 MHz	Engineer	: Kane
Operation Mode	: TX CH LOW	Measurement Antenna Pol.	: VERTICAL
EUT Pol.	: H Plan		



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
92.08	-70.82	-62.9	-7.13	-0.79	-13.00	-57.82
145.43	-69.50	-60.9	-7.61	-0.99	-13.00	-56.50
170.65	-71.78	-65.32	-5.38	-1.08	-13.00	-58.78
391.81	-67.57	-64.44	-1.49	-1.64	-13.00	-54.57
406.36	-66.73	-63.31	-1.75	-1.67	-13.00	-53.73
459.71	-65.45	-61.62	-2.05	-1.78	-13.00	-52.45
1663.00	-53.66	-59.87	9.78	-3.57	-13.00	-40.66
2494.50	-49.20	-55.44	10.78	-4.54	-13.00	-36.20
3326.00	-51.17	-58.58	12.76	-5.35	-13.00	-38.17

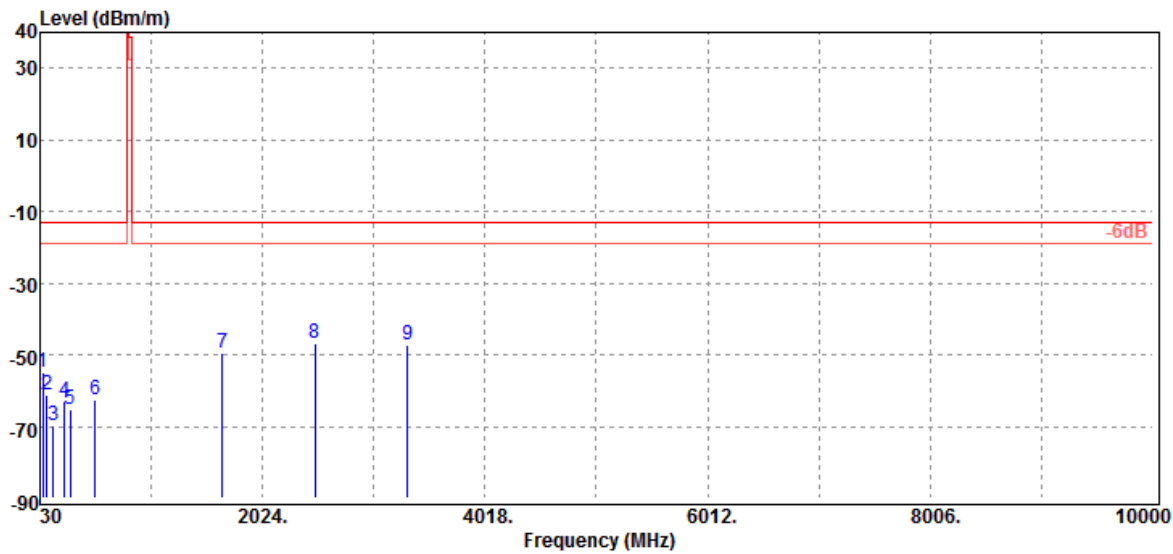
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Project Number : T190328W01  
Operation Band : LTE B26 15M QPSK 1,0  
Fundamental Frequency : 831.5 MHz  
Operation Mode : TX CH LOW  
EUT Pol. : H Plan

Test Date : 2019-04-18  
Temp./Humi. : 19/53  
Engineer : Kane  
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
56.19	-54.76	-43.63	-10.50	-0.63	-13.00	-41.76
92.08	-61.23	-53.31	-7.13	-0.79	-13.00	-48.23
146.40	-69.98	-61.47	-7.51	-1.00	-13.00	-56.98
247.28	-62.94	-59.78	-1.86	-1.30	-13.00	-49.94
302.57	-65.46	-62.07	-1.95	-1.44	-13.00	-52.46
523.73	-62.47	-59.18	-1.38	-1.91	-13.00	-49.47
1663.00	-49.55	-55.76	9.78	-3.57	-13.00	-36.55
2494.50	-46.81	-53.05	10.78	-4.54	-13.00	-33.81
3326.00	-47.17	-54.58	12.76	-5.35	-13.00	-34.17

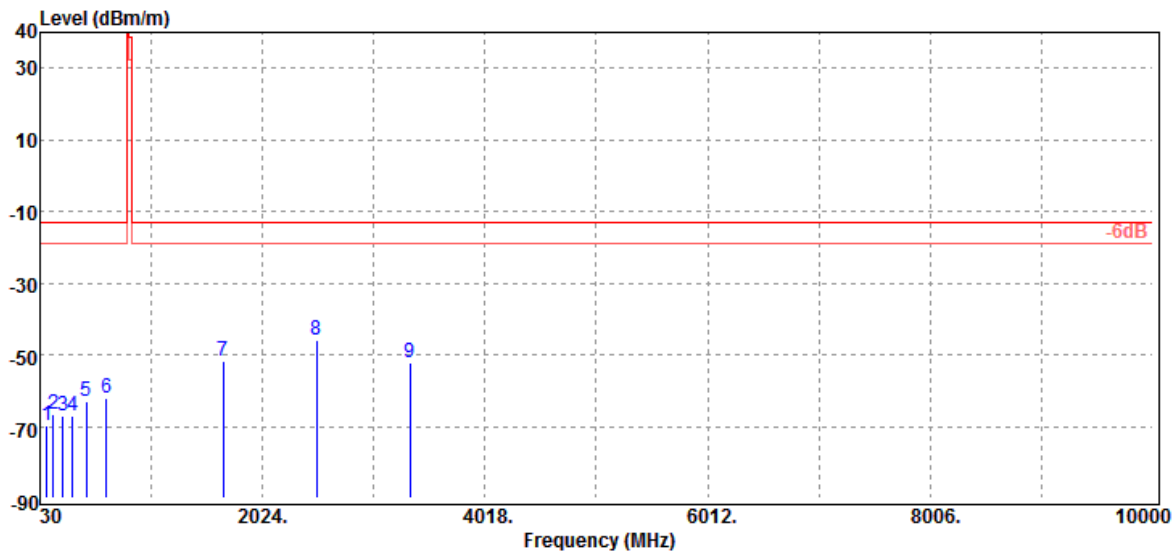
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Project Number : T190328W01  
Operation Band : LTE B26 15M QPSK 1,0  
Fundamental Frequency : 836.5 MHz  
Operation Mode : TX CH MID  
EUT Pol. : H Plan

Test Date : 2019-04-18  
Temp./Humi. : 19/53  
Engineer : Kane  
Measurement Antenna Pol. : VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
91.11	-69.63	-61.74	-7.10	-0.79	-13.00	-56.63
149.31	-66.58	-58.36	-7.22	-1.00	-13.00	-53.58
232.73	-67.21	-63.85	-2.10	-1.26	-13.00	-54.21
322.94	-67.19	-63.91	-1.79	-1.49	-13.00	-54.19
444.19	-62.93	-59.13	-2.05	-1.75	-13.00	-49.93
628.49	-62.26	-58.65	-1.52	-2.09	-13.00	-49.26
1673.00	-51.70	-57.96	9.84	-3.58	-13.00	-38.70
2509.50	-46.11	-52.32	10.80	-4.59	-13.00	-33.11
3346.00	-52.21	-59.72	12.88	-5.37	-13.00	-39.21

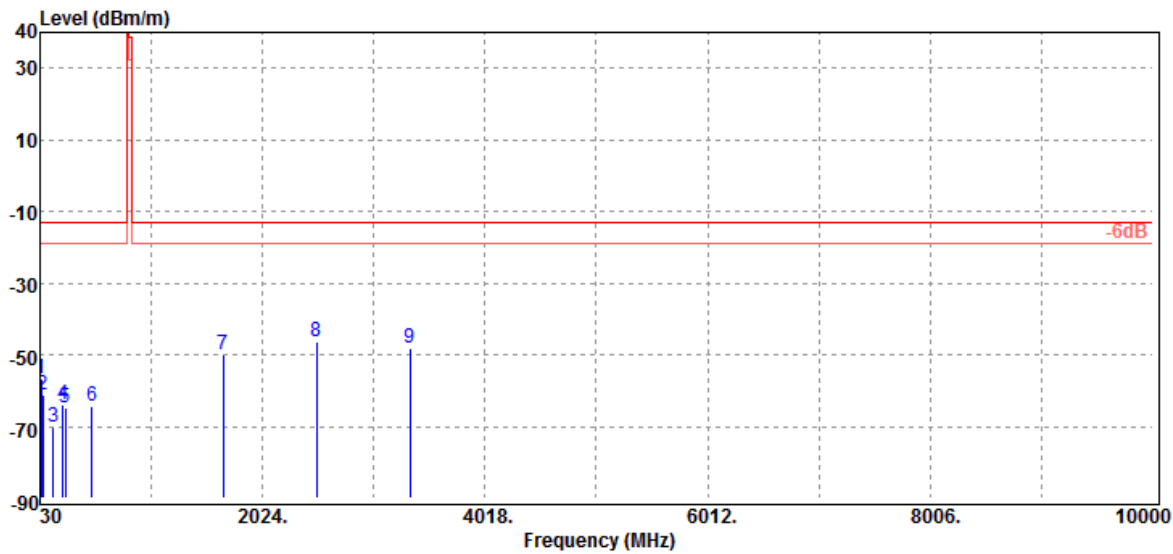
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Project Number : T190328W01  
Operation Band : LTE B26 15M QPSK 1,0  
Fundamental Frequency : 836.5 MHz  
Operation Mode : TX CH MID  
EUT Pol. : H Plan

Test Date : 2019-04-18  
Temp./Humi. : 19/53  
Engineer : Kane  
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
38.73	-56.78	-34.95	-21.31	-0.52	-13.00	-43.78
57.16	-61.15	-50.06	-10.46	-0.63	-13.00	-48.15
150.28	-70.01	-61.87	-7.13	-1.01	-13.00	-57.01
235.64	-63.91	-60.5	-2.15	-1.26	-13.00	-50.91
256.98	-64.83	-61.84	-1.67	-1.32	-13.00	-51.83
491.72	-64.58	-60.55	-2.18	-1.85	-13.00	-51.58
1673.00	-49.85	-56.11	9.84	-3.58	-13.00	-36.85
2509.50	-46.59	-52.8	10.80	-4.59	-13.00	-33.59
3346.00	-48.37	-55.88	12.88	-5.37	-13.00	-35.37

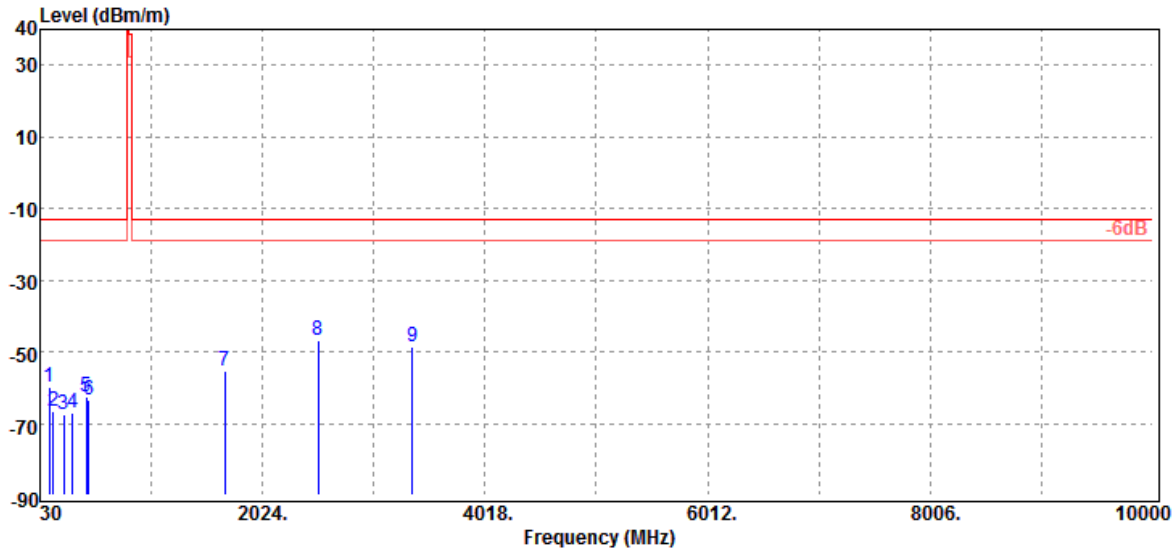
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Project Number : T190328W01  
Operation Band : LTE B26 15M QPSK 1,0  
Fundamental Frequency : 841.5 MHz  
Operation Mode : TX CH HIGH  
EUT Pol. : H Plan

Test Date : 2019-04-18  
Temp./Humi. : 19/53  
Engineer : Kane  
Measurement Antenna Pol. : VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
114.39	-59.88	-48.62	-10.38	-0.88	-13.00	-46.88
150.28	-66.57	-58.43	-7.13	-1.01	-13.00	-53.57
240.49	-67.40	-63.99	-2.13	-1.28	-13.00	-54.40
324.88	-67.19	-63.95	-1.75	-1.49	-13.00	-54.19
443.22	-62.58	-58.78	-2.05	-1.75	-13.00	-49.58
464.56	-63.41	-59.39	-2.23	-1.79	-13.00	-50.41
1683.00	-55.38	-61.69	9.90	-3.59	-13.00	-42.38
2524.50	-46.80	-53.01	10.80	-4.59	-13.00	-33.80
3366.00	-48.72	-56.18	12.87	-5.41	-13.00	-35.72

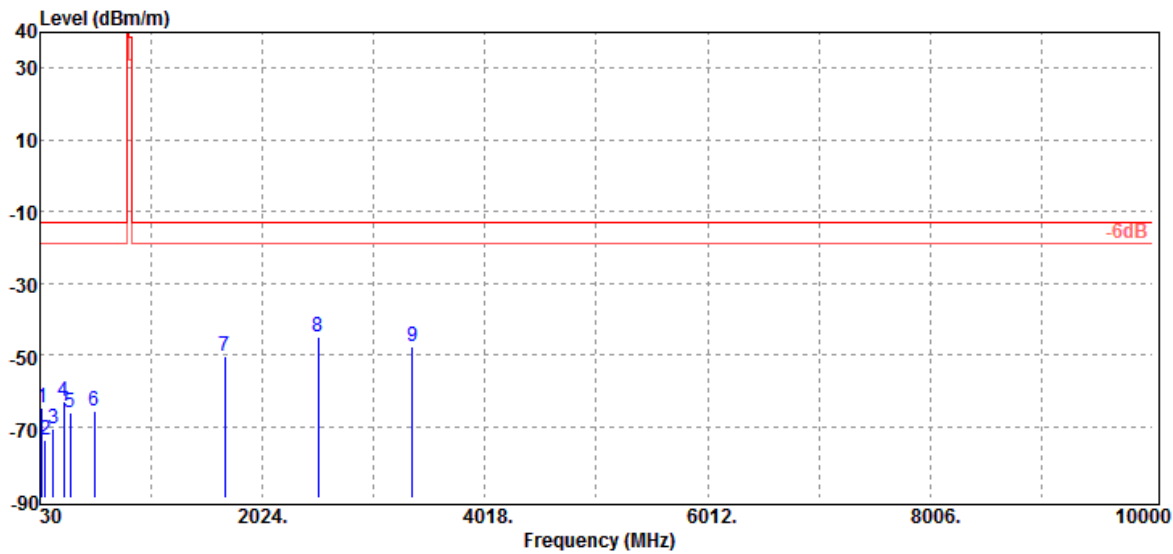
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Project Number : T190328W01  
Operation Band : LTE B26 15M QPSK 1,0  
Fundamental Frequency : 841.5 MHz  
Operation Mode : TX CH HIGH  
EUT Pol. : H Plan

Test Date : 2019-04-18  
Temp./Humi. : 19/53  
Engineer : Kane  
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
46.49	-64.68	-49.73	-14.37	-0.58	-13.00	-51.68
78.50	-73.60	-64.21	-8.66	-0.73	-13.00	-60.60
150.28	-70.61	-62.47	-7.13	-1.01	-13.00	-57.61
245.34	-62.82	-59.59	-1.94	-1.29	-13.00	-49.82
298.69	-66.25	-62.82	-2.00	-1.43	-13.00	-53.25
516.94	-65.87	-62.52	-1.45	-1.90	-13.00	-52.87
1683.00	-50.58	-56.89	9.90	-3.59	-13.00	-37.58
2524.50	-45.18	-51.39	10.80	-4.59	-13.00	-32.18
3366.00	-47.50	-54.96	12.87	-5.41	-13.00	-34.50

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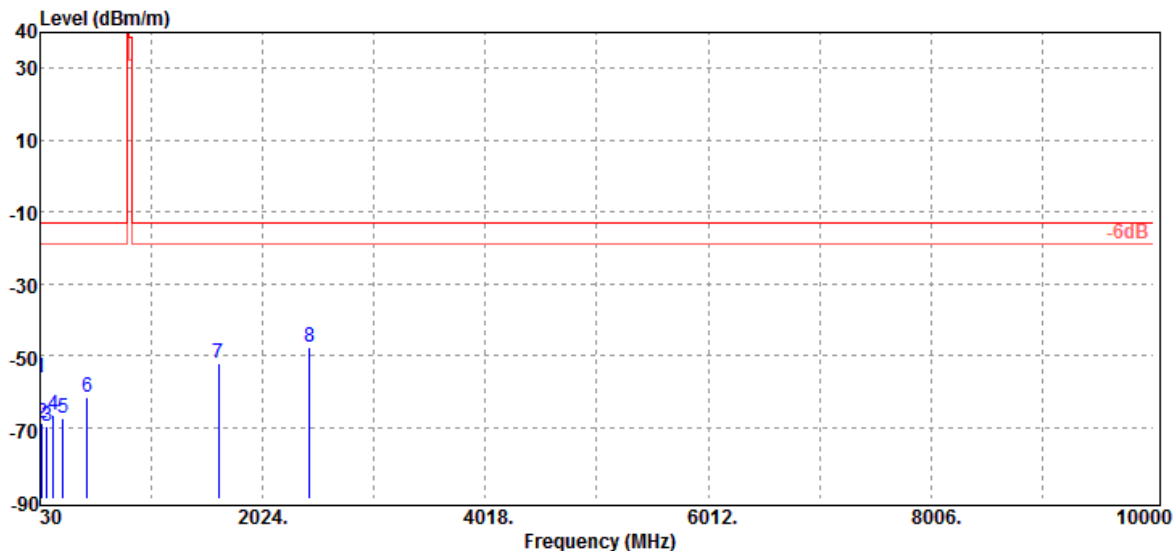
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## Radiated Spurious Emission Measurement Result: LTE-Band 26 for Part 90S (The Worst Case)

Project Number	: T190328W01	Test Date	: 2019-04-18
Operation Band	: LTE Part90 1.4M QPSK RB1,5	Temp./Humi.	: 19/53
Fundamental Frequency	: 814.7 MHz	Engineer	: Kane
Operation Mode	: TX CH LOW	Measurement Antenna Pol.	: VERTICAL
EUT Pol.	: H Plan		



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
35.82	-56.12	-31.27	-24.35	-0.50	-13.00	-43.12
47.46	-68.66	-54.4	-13.68	-0.58	-13.00	-55.66
94.02	-69.67	-61.66	-7.21	-0.80	-13.00	-56.67
148.34	-66.60	-58.29	-7.31	-1.00	-13.00	-53.60
233.70	-67.69	-64.31	-2.12	-1.26	-13.00	-54.69
453.89	-61.57	-57.75	-2.05	-1.77	-13.00	-48.57
1629.40	-52.32	-58.46	9.66	-3.52	-13.00	-39.32
2444.10	-47.50	-53.6	10.56	-4.46	-13.00	-34.50

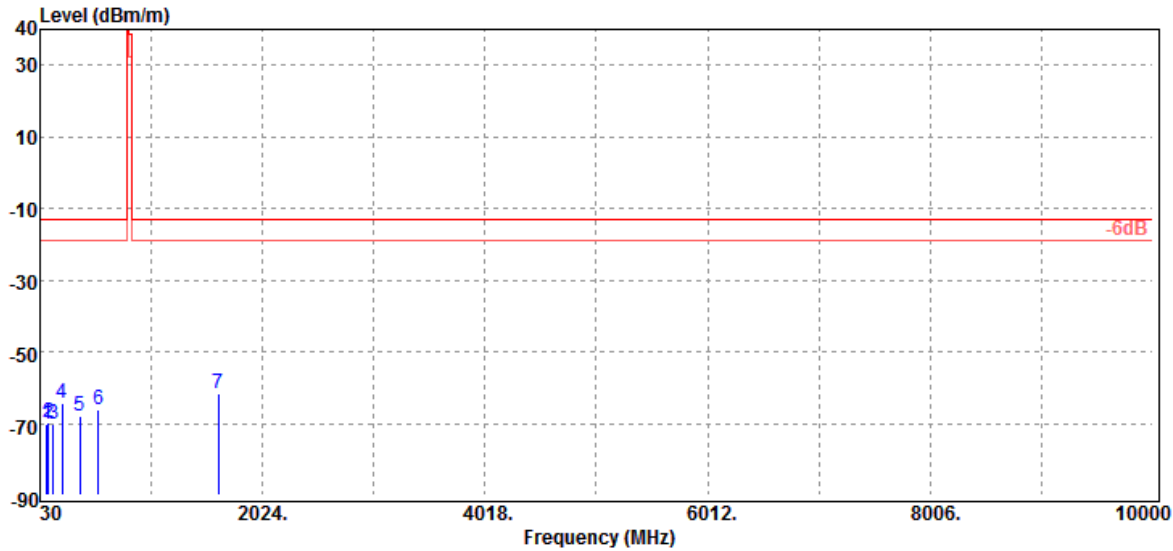
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Project Number : T190328W01  
Operation Band : LTE Part90 1.4M QPSK RB1,5  
Fundamental Frequency : 814.7 MHz  
Operation Mode : TX CH LOW  
EUT Pol. : H Plan

Test Date : 2019-04-18  
Temp./Humi. : 19/53  
Engineer : Kane  
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
94.02	-70.12	-62.11	-7.21	-0.80	-13.00	-57.12
105.66	-69.79	-59.53	-9.42	-0.84	-13.00	-56.79
149.31	-70.04	-61.82	-7.22	-1.00	-13.00	-57.04
226.91	-64.58	-61.41	-1.93	-1.24	-13.00	-51.58
385.99	-68.15	-65.07	-1.45	-1.63	-13.00	-55.15
549.92	-65.97	-62.77	-1.25	-1.95	-13.00	-52.97
1629.40	-61.50	-67.64	9.66	-3.52	-13.00	-48.50

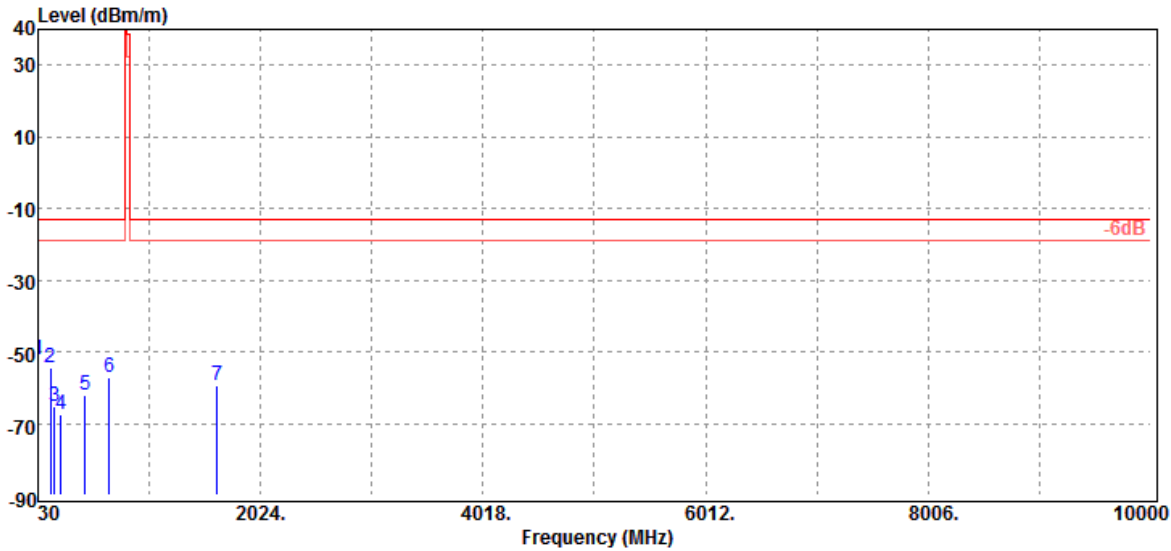
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Project Number : T190328W01  
Operation Band : LTE Part90 1.4M QPSK RB1,5  
Fundamental Frequency : 819 MHz  
Operation Mode : TX CH MID  
EUT Pol. : H Plan

Test Date : 2019-04-18  
Temp./Humi. : 19/53  
Engineer : Kane  
Measurement Antenna Pol. : VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
34.85	-52.06	-26.18	-25.38	-0.50	-13.00	-39.06
140.58	-54.47	-45.05	-8.44	-0.98	-13.00	-41.47
178.41	-65.22	-59.51	-4.61	-1.10	-13.00	-52.22
238.55	-67.64	-64.22	-2.15	-1.27	-13.00	-54.64
453.89	-62.15	-58.33	-2.05	-1.77	-13.00	-49.15
667.29	-57.05	-53.42	-1.45	-2.18	-13.00	-44.05
1638.00	-59.44	-65.59	9.68	-3.53	-13.00	-46.44

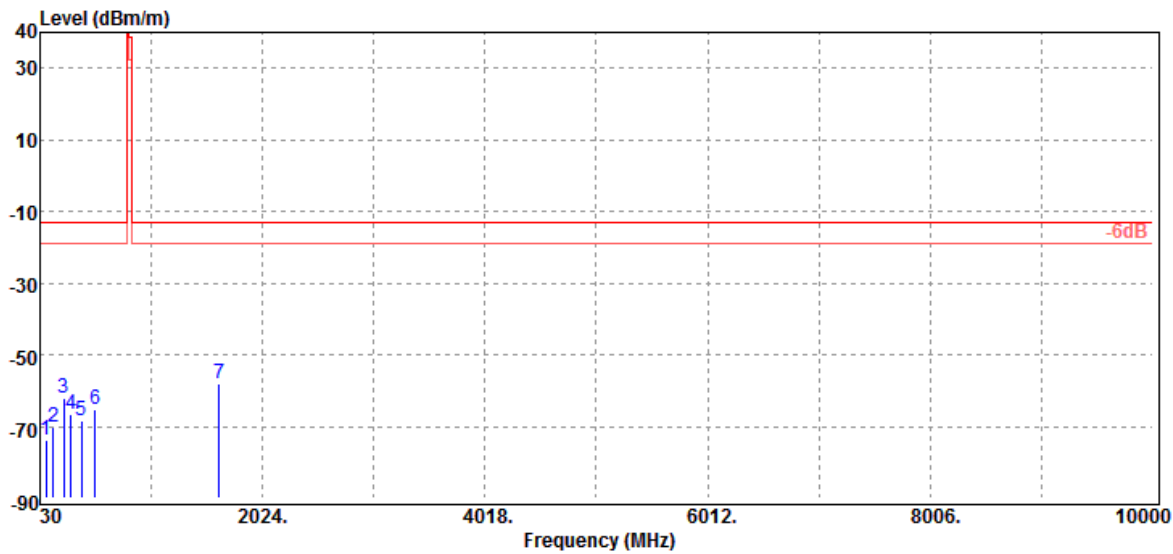
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Project Number : T190328W01  
Operation Band : LTE Part90 1.4M QPSK RB1,5  
Fundamental Frequency : 819 MHz  
Operation Mode : TX CH MID  
EUT Pol. : H Plan

Test Date : 2019-04-18  
Temp./Humi. : 19/53  
Engineer : Kane  
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
81.41	-73.63	-64.57	-8.31	-0.75	-13.00	-60.63
149.31	-70.38	-62.16	-7.22	-1.00	-13.00	-57.38
242.43	-62.12	-58.79	-2.05	-1.28	-13.00	-49.12
309.36	-66.54	-63.13	-1.95	-1.46	-13.00	-53.54
402.48	-68.27	-64.91	-1.70	-1.66	-13.00	-55.27
527.61	-65.17	-61.9	-1.35	-1.92	-13.00	-52.17
1638.00	-58.12	-64.27	9.68	-3.53	-13.00	-45.12

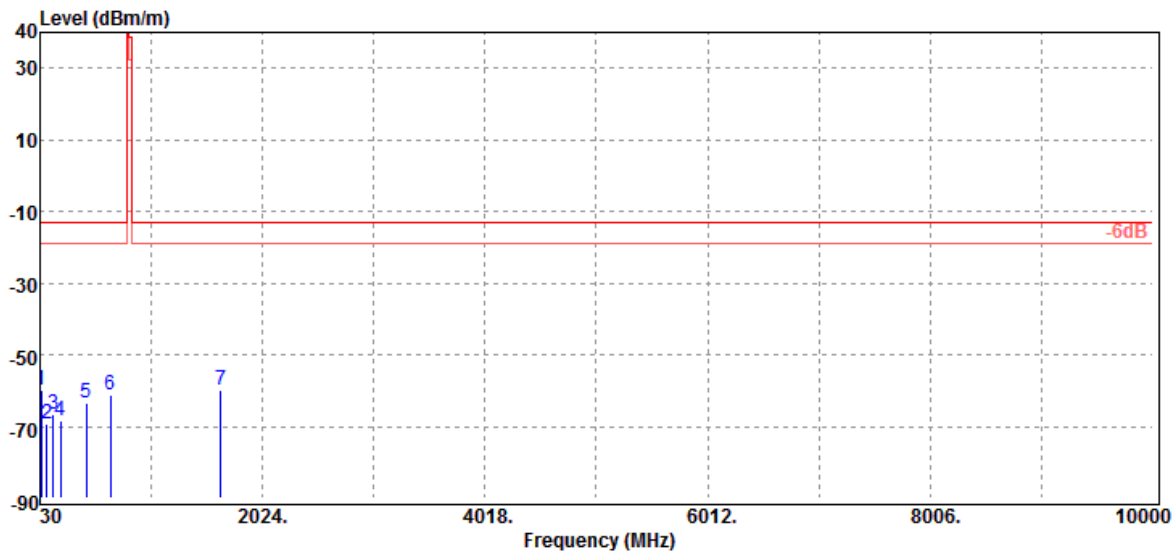
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Project Number : T190328W01  
Operation Band :LTE Part90 1.4M QPSK RB1,5  
Fundamental Frequency :823.3 MHz  
Operation Mode :TX CH HIGH  
EUT Pol. :H Plan

Test Date :2019-04-18  
Temp./Humi. :19/53  
Engineer :Kane  
Measurement Antenna Pol. :VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
41.64	-59.87	-40.85	-18.48	-0.54	-13.00	-46.87
89.17	-69.15	-61.17	-7.20	-0.78	-13.00	-56.15
150.28	-66.57	-58.43	-7.13	-1.01	-13.00	-53.57
216.24	-68.62	-65.39	-2.02	-1.21	-13.00	-55.62
443.22	-63.57	-59.77	-2.05	-1.75	-13.00	-50.57
664.38	-61.33	-57.71	-1.45	-2.17	-13.00	-48.33
1646.60	-60.00	-66.15	9.69	-3.54	-13.00	-47.00

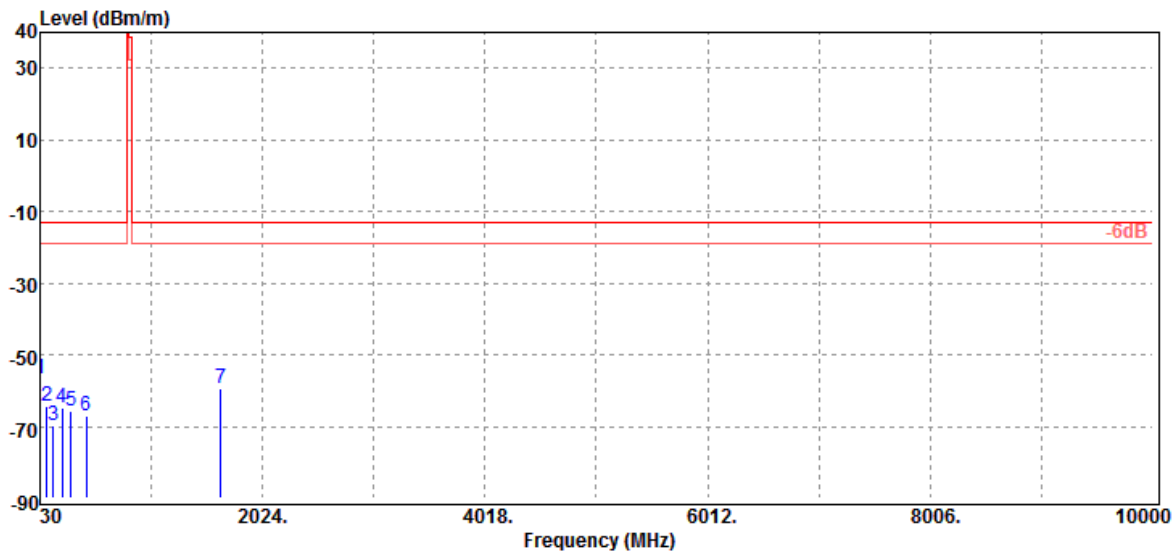
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Project Number : T190328W01  
Operation Band : LTE Part90 1.4M QPSK RB1,5  
Fundamental Frequency : 823.3 MHz  
Operation Mode : TX CH HIGH  
EUT Pol. : H Plan

Test Date : 2019-04-18  
Temp./Humi. : 19/53  
Engineer : Kane  
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.97	-56.71	-27.19	-29.06	-0.46	-13.00	-43.71
94.02	-64.40	-56.39	-7.21	-0.80	-13.00	-51.40
149.31	-69.69	-61.47	-7.22	-1.00	-13.00	-56.69
227.88	-64.93	-61.72	-1.97	-1.24	-13.00	-51.93
308.39	-65.55	-62.15	-1.95	-1.45	-13.00	-52.55
447.10	-67.22	-63.42	-2.05	-1.75	-13.00	-54.22
1646.60	-59.25	-65.4	9.69	-3.54	-13.00	-46.25

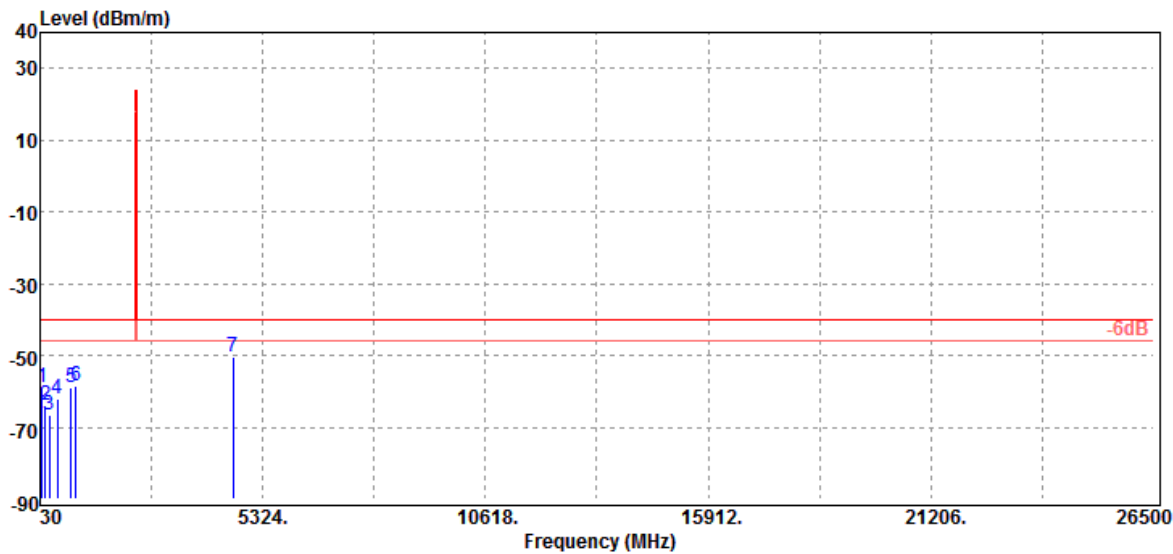
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**Radiated Spurious Emission Measurement Result: LTE-Band 30 (The Worst Case)**

Project Number	: T190328W01	Test Date	: 2019-04-17
Operation Band	: LTE B30 10M QPSK 1,0	Temp./Humi.	: 19/53
Fundamental Frequency	: 2310 MHz	Engineer	: Kane
Operation Mode	: TX CH MID	Measurement Antenna Pol.	: VERTICAL
EUT Pol.	: H Plan		



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
81.41	-58.79	-49.73	-8.31	-0.75	-40.00	-18.79
145.43	-64.02	-55.42	-7.61	-0.99	-40.00	-24.02
241.46	-66.64	-63.27	-2.09	-1.28	-40.00	-26.64
444.19	-61.99	-58.19	-2.05	-1.75	-40.00	-21.99
776.90	-58.99	-55.2	-1.45	-2.34	-40.00	-18.99
883.60	-58.56	-54.8	-1.25	-2.51	-40.00	-18.56
4620.00	-50.52	-56.86	12.72	-6.38	-40.00	-10.52

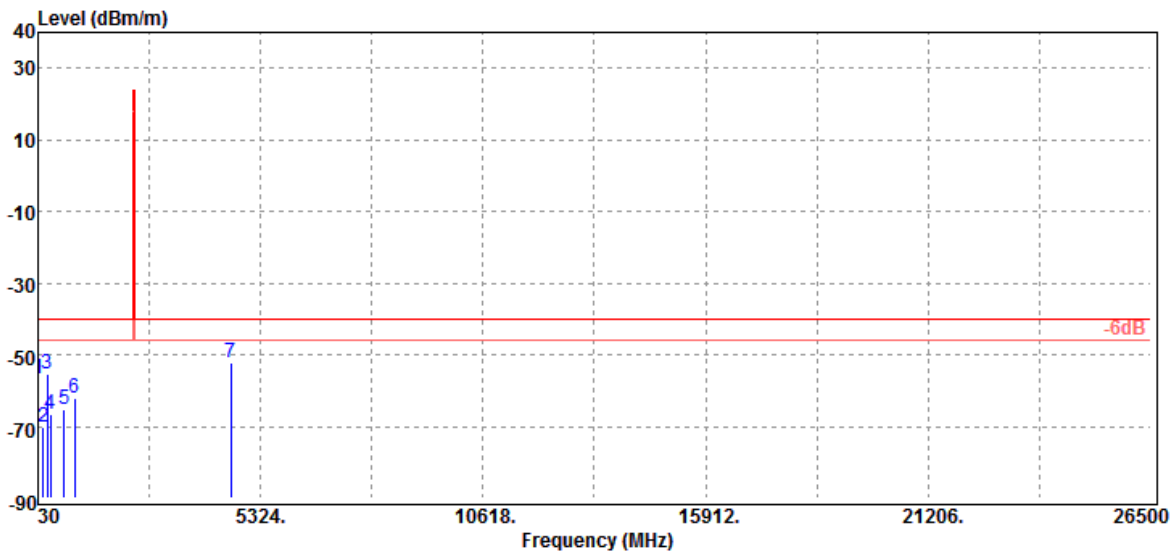
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Project Number : T190328W01  
Operation Band : LTE B30 10M QPSK 1,0  
Fundamental Frequency : 2310 MHz  
Operation Mode : TX CH MID  
EUT Pol. : H Plan

Test Date : 2019-04-17  
Temp./Humi. : 19/53  
Engineer : Kane  
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-56.79	-26.29	-30.05	-0.45	-40.00	-16.79
150.28	-70.42	-62.28	-7.13	-1.01	-40.00	-30.42
247.28	-55.43	-52.27	-1.86	-1.30	-40.00	-15.43
321.00	-66.81	-63.5	-1.83	-1.48	-40.00	-26.81
647.89	-65.29	-61.51	-1.65	-2.13	-40.00	-25.29
903.97	-62.26	-58.46	-1.25	-2.55	-40.00	-22.26
4620.00	-52.13	-58.47	12.72	-6.38	-40.00	-12.13

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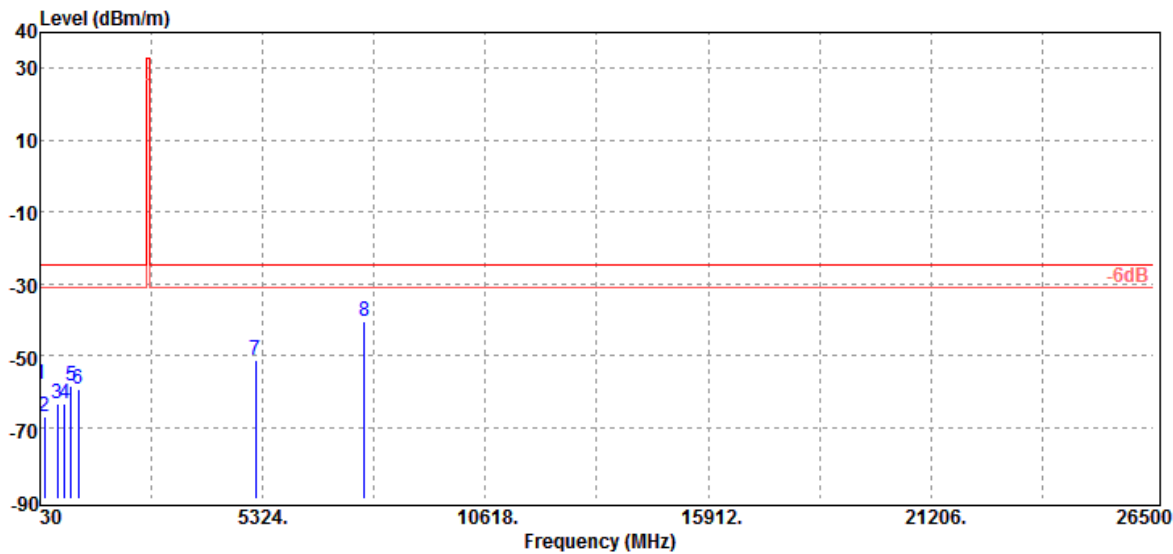
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### Radiated Spurious Emission Measurement Result: LTE-Band 38 (The Worst Case)

Project Number	: T190328W01	Test Date	: 2019-04-17
Operation Band	: LTE B38 QPSK 1,0	Temp./Humi.	: 19/53
Fundamental Frequency	: 2580 MHz	Engineer	: Kane
Operation Mode	: TX CH LOW	Measurement Antenna Pol.	: VERTICAL
EUT Pol.	: H Plan		



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-57.86	-27.36	-30.05	-0.45	-25.00	-32.86
144.46	-67.20	-58.46	-7.75	-0.99	-25.00	-42.20
444.19	-63.66	-59.86	-2.05	-1.75	-25.00	-38.66
608.12	-63.37	-60.23	-1.07	-2.07	-25.00	-38.37
775.93	-58.54	-54.75	-1.45	-2.34	-25.00	-33.54
931.13	-59.47	-55.61	-1.27	-2.59	-25.00	-34.47
5160.00	-51.24	-57.26	12.76	-6.74	-25.00	-26.24
7740.00	-40.44	-43.36	11.20	-8.28	-25.00	-15.44

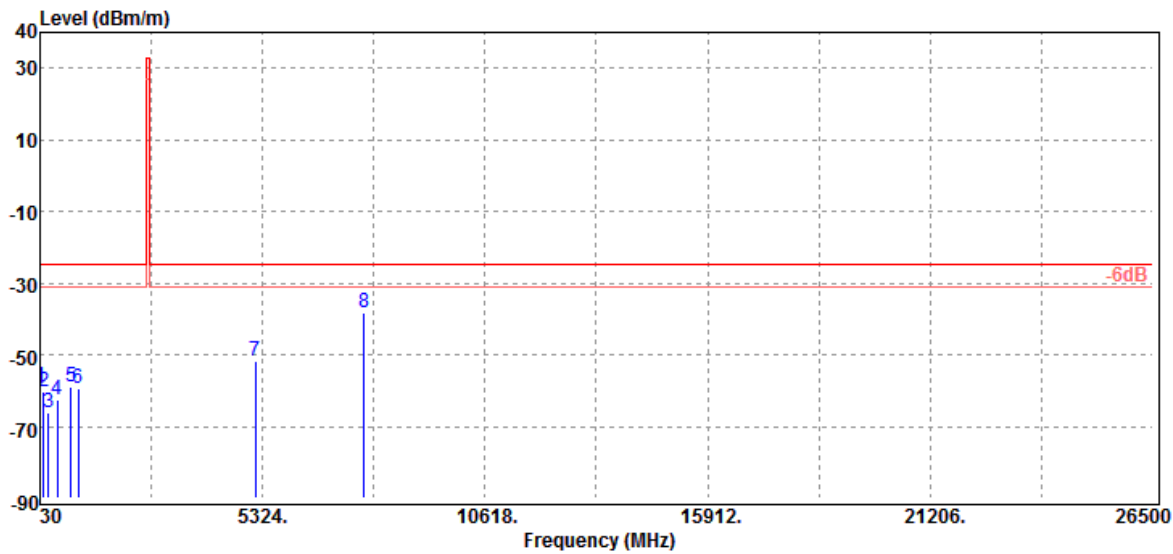
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Project Number : T190328W01  
Operation Band :LTE B38 QPSK 1,0  
Fundamental Frequency :2580 MHz  
Operation Mode :TX CH LOW  
EUT Pol. :H Plan

Test Date :2019-04-17  
Temp./Humi. :19/53  
Engineer :Kane  
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.97	-59.06	-29.54	-29.06	-0.46	-25.00	-34.06
117.30	-60.48	-49.05	-10.54	-0.89	-25.00	-35.48
235.64	-66.25	-62.84	-2.15	-1.26	-25.00	-41.25
444.19	-62.52	-58.72	-2.05	-1.75	-25.00	-37.52
775.93	-58.89	-55.1	-1.45	-2.34	-25.00	-33.89
932.10	-59.26	-55.38	-1.29	-2.59	-25.00	-34.26
5160.00	-51.56	-57.58	12.76	-6.74	-25.00	-26.56
7740.00	-38.07	-40.99	11.20	-8.28	-25.00	-13.07

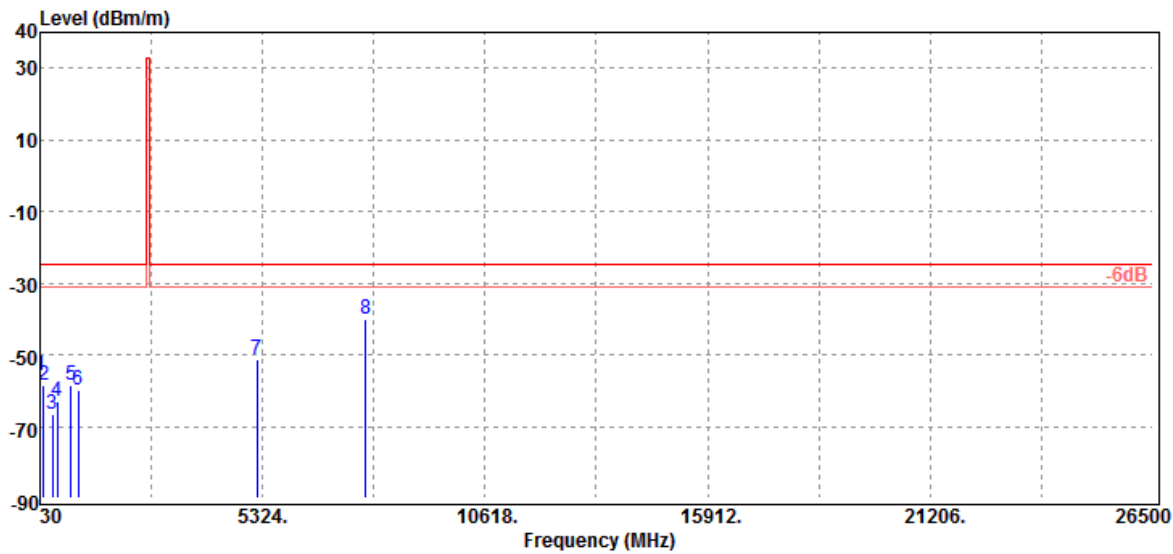
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Project Number : T190328W01  
Operation Band :LTE B38 QPSK 1,0  
Fundamental Frequency :2595 MHz  
Operation Mode :TX CH MID  
EUT Pol. :H Plan

Test Date :2019-04-17  
Temp./Humi. :19/53  
Engineer :Kane  
Measurement Antenna Pol. :VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
32.91	-55.76	-28.11	-27.17	-0.48	-25.00	-30.76
114.39	-58.44	-47.18	-10.38	-0.88	-25.00	-33.44
320.03	-66.81	-63.48	-1.85	-1.48	-25.00	-41.81
444.19	-62.84	-59.04	-2.05	-1.75	-25.00	-37.84
775.93	-58.43	-54.64	-1.45	-2.34	-25.00	-33.43
931.13	-59.80	-55.94	-1.27	-2.59	-25.00	-34.80
5190.00	-51.31	-57.59	12.94	-6.66	-25.00	-26.31
7785.00	-39.85	-42.62	11.13	-8.36	-25.00	-14.85

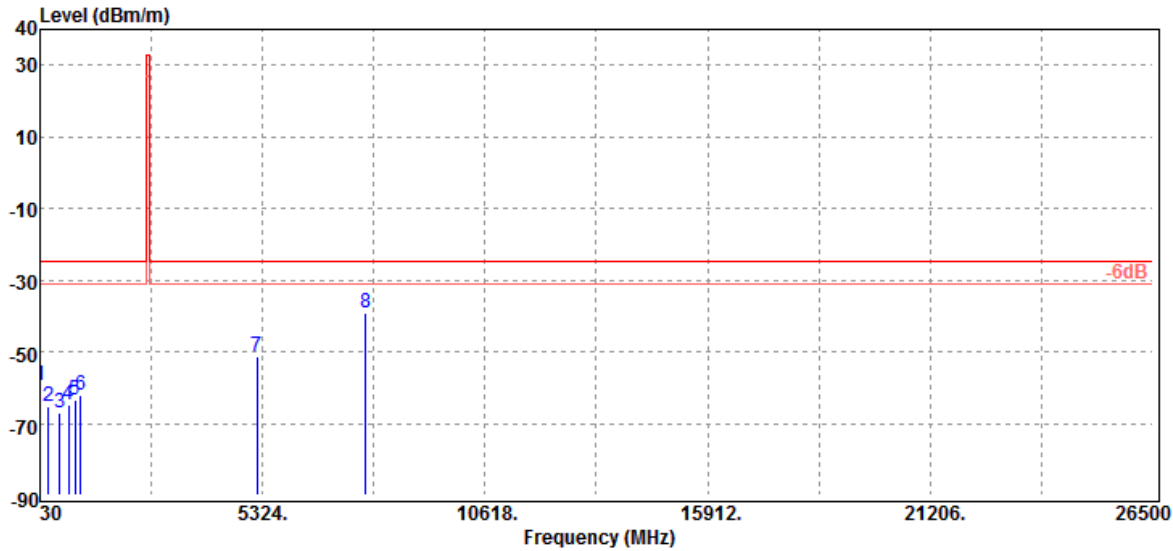
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Project Number : T190328W01  
Operation Band :LTE B38 QPSK 1,0  
Fundamental Frequency :2595 MHz  
Operation Mode :TX CH MID  
EUT Pol. :H Plan

Test Date :2019-04-17  
Temp./Humi. :19/53  
Engineer :Kane  
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
32.91	-59.19	-31.54	-27.17	-0.48	-25.00	-34.19
230.79	-65.41	-62.09	-2.07	-1.25	-25.00	-40.41
490.75	-67.12	-63.05	-2.22	-1.85	-25.00	-42.12
707.06	-64.88	-61.19	-1.45	-2.24	-25.00	-39.88
854.50	-63.35	-59.62	-1.26	-2.47	-25.00	-38.35
989.33	-62.00	-57.9	-1.44	-2.66	-25.00	-37.00
5190.00	-51.23	-57.51	12.94	-6.66	-25.00	-26.23
7785.00	-38.99	-41.76	11.13	-8.36	-25.00	-13.99

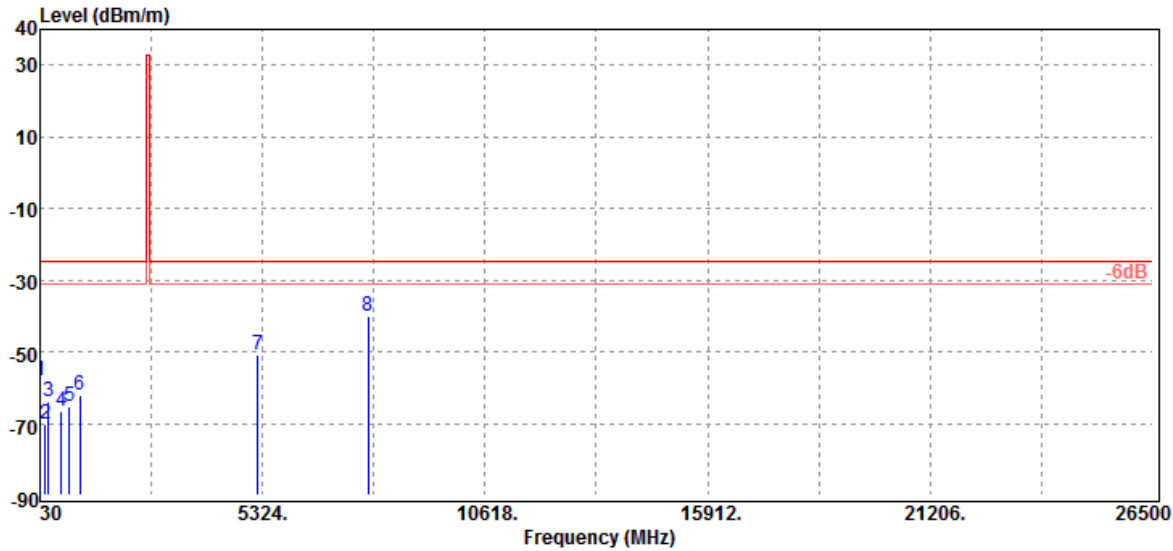
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Project Number : T190328W01  
Operation Band :LTE B38 QPSK 1,0  
Fundamental Frequency :2610 MHz  
Operation Mode :TX CH HIGH  
EUT Pol. :H Plan

Test Date :2019-04-17  
Temp./Humi. :19/53  
Engineer :Kane  
Measurement Antenna Pol. :VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-57.96	-27.46	-30.05	-0.45	-25.00	-32.96
149.31	-70.21	-61.99	-7.22	-1.00	-25.00	-45.21
236.61	-63.75	-60.33	-2.15	-1.27	-25.00	-38.75
529.55	-66.74	-63.47	-1.35	-1.92	-25.00	-41.74
725.49	-65.29	-61.58	-1.44	-2.27	-25.00	-40.29
974.78	-61.99	-58	-1.35	-2.64	-25.00	-36.99
5220.00	-50.98	-57.3	13.08	-6.76	-25.00	-25.98
7830.00	-40.04	-42.8	11.10	-8.34	-25.00	-15.04

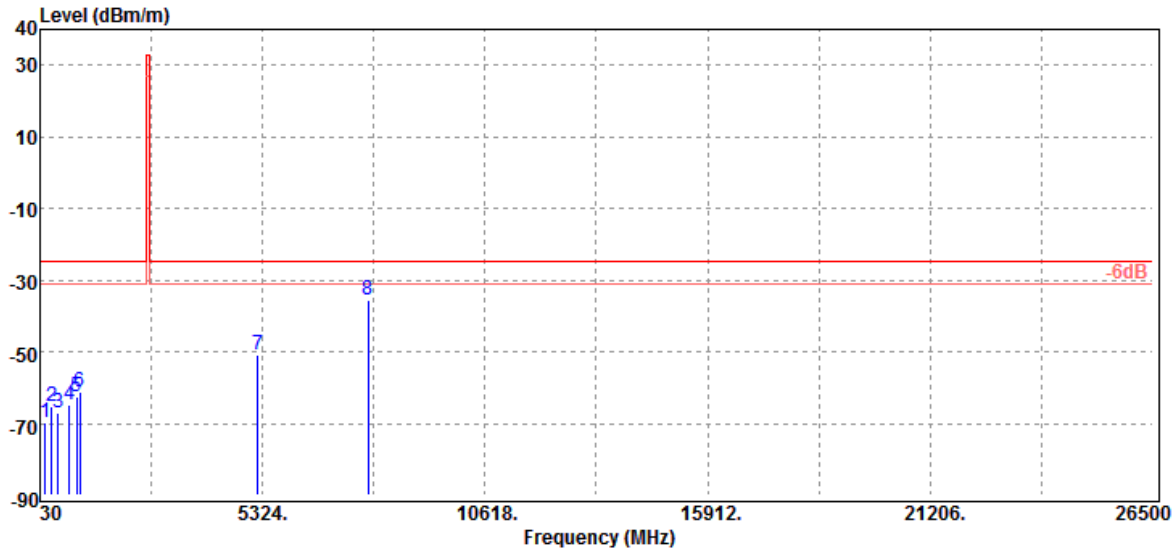
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Project Number : T190328W01  
Operation Band :LTE B38 QPSK 1,0  
Fundamental Frequency :2610 MHz  
Operation Mode :TX CH HIGH  
EUT Pol. :H Plan

Test Date :2019-04-17  
Temp./Humi. :19/53  
Engineer :Kane  
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
150.28	-69.86	-61.72	-7.13	-1.01	-25.00	-44.86
310.33	-65.48	-62.07	-1.95	-1.46	-25.00	-40.48
470.38	-67.05	-62.9	-2.35	-1.80	-25.00	-42.05
731.31	-64.86	-61.23	-1.35	-2.28	-25.00	-39.86
893.30	-62.53	-58.75	-1.25	-2.53	-25.00	-37.53
969.93	-61.43	-57.54	-1.25	-2.64	-25.00	-36.43
5220.00	-50.86	-57.18	13.08	-6.76	-25.00	-25.86
7830.00	-35.43	-38.19	11.10	-8.34	-25.00	-10.43

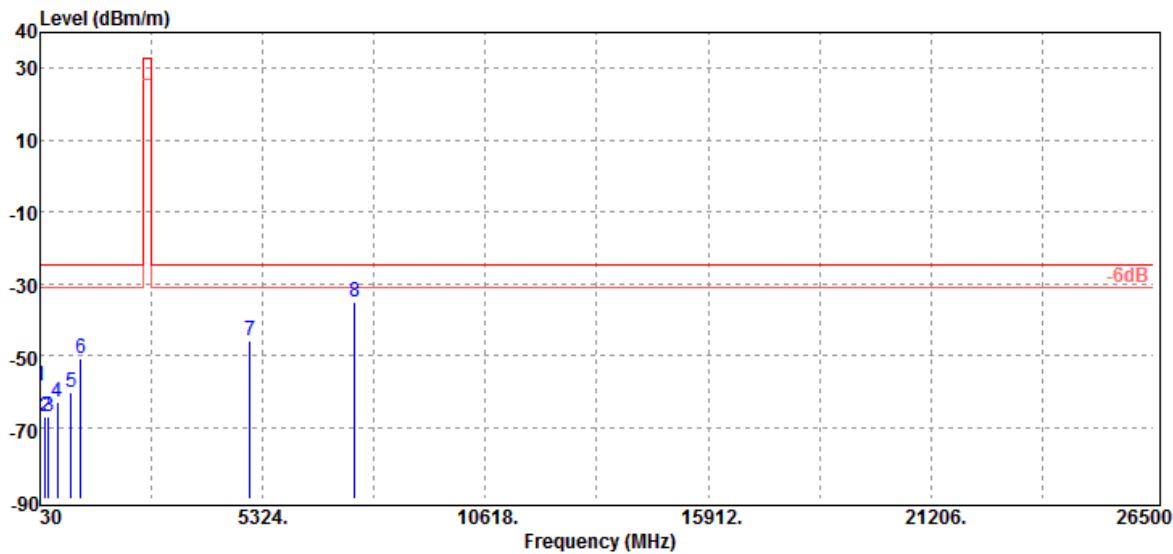
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## Radiated Spurious Emission Measurement Result: LTE-Band 41 (The Worst Case)

Project Number	: T190328W01	Test Date	: 2019-04-17
Operation Band	: LTE B41 20M QPSK 1,0	Temp./Humi.	: 19/53
Fundamental Frequency	: 2506 MHz	Engineer	: Kane
Operation Mode	: TX CH LOW	Measurement Antenna Pol.	: VERTICAL
EUT Pol.	: H Plan		



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-58.40	-27.9	-30.05	-0.45	-25.00	-33.40
150.28	-66.91	-58.77	-7.13	-1.01	-25.00	-41.91
236.61	-67.19	-63.77	-2.15	-1.27	-25.00	-42.19
447.10	-63.17	-59.37	-2.05	-1.75	-25.00	-38.17
776.90	-60.44	-56.65	-1.45	-2.34	-25.00	-35.44
999.03	-50.93	-46.82	-1.43	-2.68	-25.00	-25.93
5012.00	-46.10	-51.94	12.48	-6.64	-25.00	-21.10
7518.00	-35.03	-37.76	10.84	-8.11	-25.00	-10.03

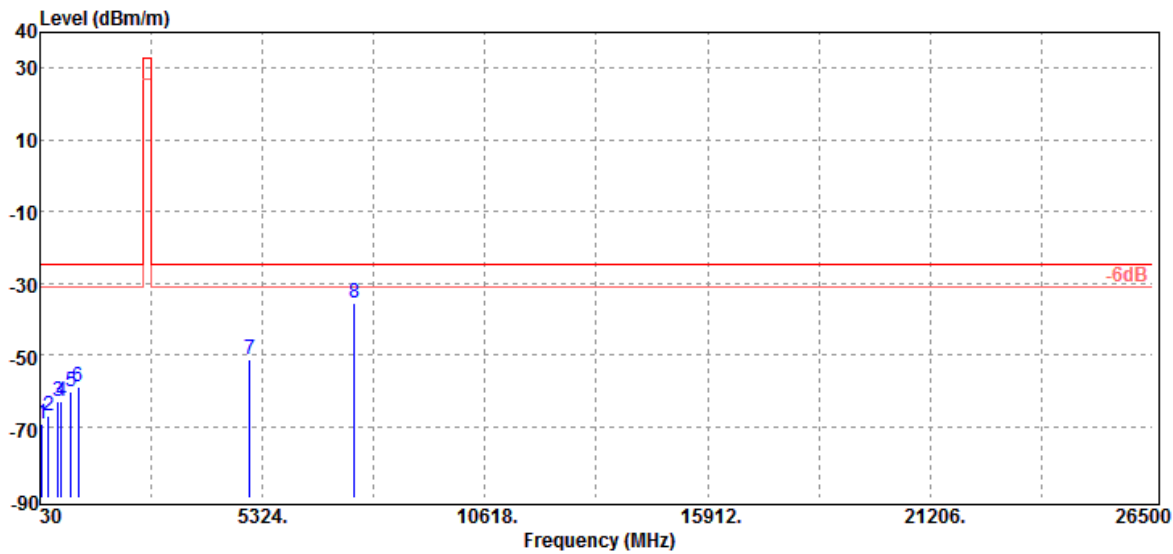
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Project Number : T190328W01  
Operation Band :LTE B41 20M QPSK 1,0  
Fundamental Frequency :2506 MHz  
Operation Mode :TX CH LOW  
EUT Pol. :H Plan

Test Date :2019-04-17  
Temp./Humi. :19/53  
Engineer :Kane  
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
86.26	-69.33	-60.84	-7.72	-0.77	-25.00	-44.33
236.61	-67.19	-63.77	-2.15	-1.27	-25.00	-42.19
455.83	-63.07	-59.25	-2.05	-1.77	-25.00	-38.07
537.31	-63.10	-59.92	-1.25	-1.93	-25.00	-38.10
776.90	-60.37	-56.58	-1.45	-2.34	-25.00	-35.37
933.07	-59.02	-55.12	-1.31	-2.59	-25.00	-34.02
5012.00	-51.14	-56.98	12.48	-6.64	-25.00	-26.14
7518.00	-35.79	-38.52	10.84	-8.11	-25.00	-10.79

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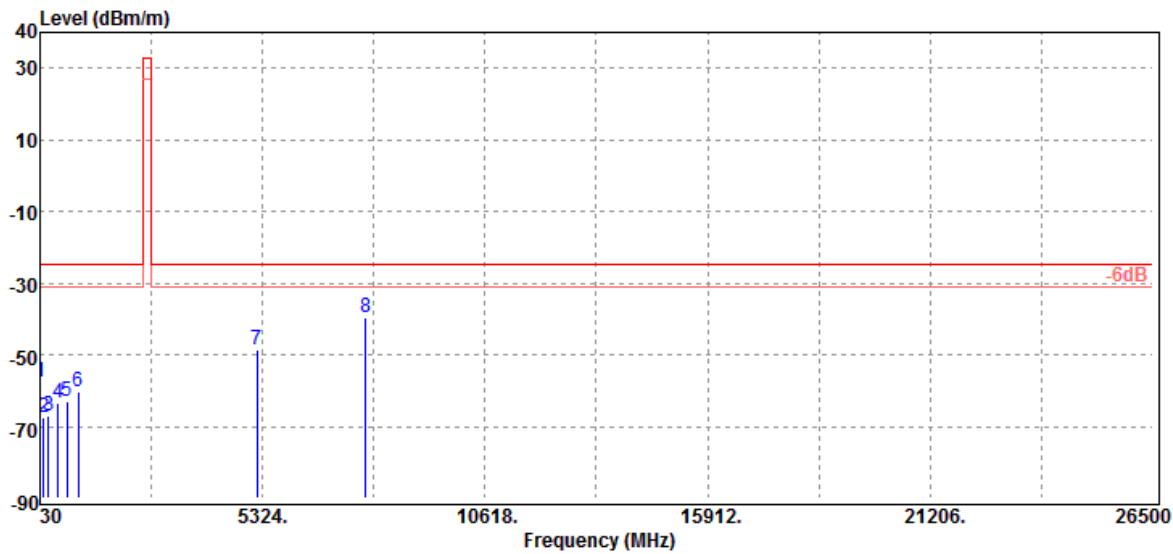
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Project Number : T190328W01  
Operation Band :LTE B41 20M QPSK 1,0  
Fundamental Frequency :2593 MHz  
Operation Mode :TX CH MID  
EUT Pol. :H Plan

Test Date :2019-04-17  
Temp./Humi. :19/53  
Engineer :Kane  
Measurement Antenna Pol. :VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-57.56	-27.06	-30.05	-0.45	-25.00	-32.56
109.54	-67.52	-56.86	-9.80	-0.86	-25.00	-42.52
236.61	-67.24	-63.82	-2.15	-1.27	-25.00	-42.24
457.77	-63.32	-59.49	-2.05	-1.78	-25.00	-38.32
664.38	-63.20	-59.58	-1.45	-2.17	-25.00	-38.20
936.95	-60.29	-56.38	-1.31	-2.60	-25.00	-35.29
5186.00	-48.62	-54.87	12.92	-6.67	-25.00	-23.62
7779.00	-39.84	-42.63	11.14	-8.35	-25.00	-14.84

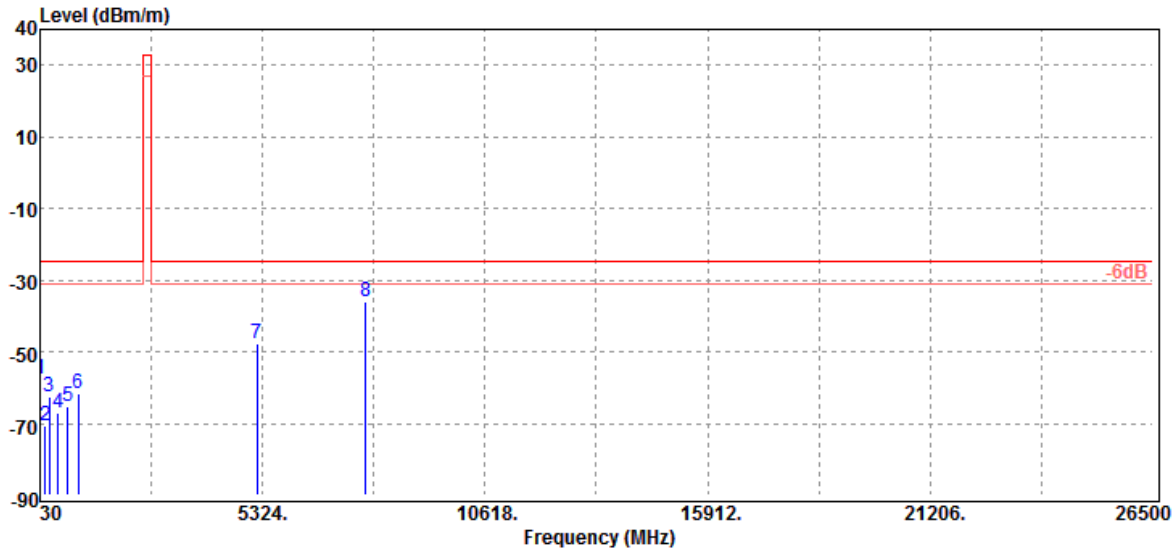
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Project Number : T190328W01  
Operation Band :LTE B41 20M QPSK 1,0  
Fundamental Frequency :2593 MHz  
Operation Mode :TX CH MID  
EUT Pol. :H Plan

Test Date :2019-04-17  
Temp./Humi. :19/53  
Engineer :Kane  
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-57.44	-26.94	-30.05	-0.45	-25.00	-32.44
150.28	-70.68	-62.54	-7.13	-1.01	-25.00	-45.68
244.37	-62.39	-59.13	-1.97	-1.29	-25.00	-37.39
461.65	-67.21	-63.31	-2.12	-1.78	-25.00	-42.21
693.48	-65.20	-61.63	-1.35	-2.22	-25.00	-40.20
931.13	-61.52	-57.66	-1.27	-2.59	-25.00	-36.52
5186.00	-47.55	-53.8	12.92	-6.67	-25.00	-22.55
7779.00	-36.03	-38.82	11.14	-8.35	-25.00	-11.03

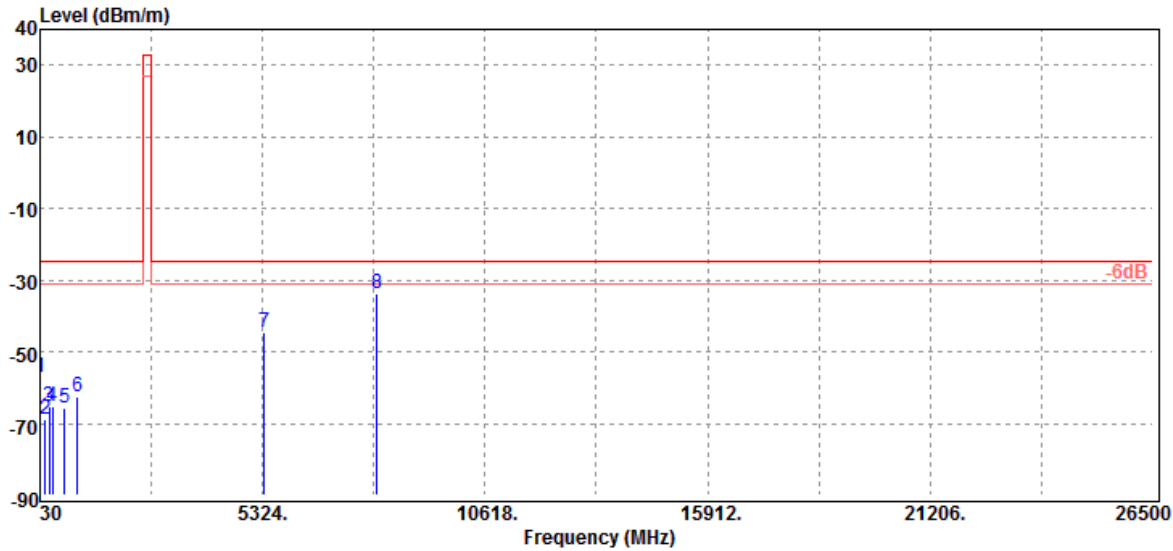
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Project Number : T190328W01  
Operation Band : LTE B41 20M QPSK 1,0  
Fundamental Frequency : 2680 MHz  
Operation Mode : TX CH HIGH  
EUT Pol. : H Plan

Test Date : 2019-04-17  
Temp./Humi. : 19/53  
Engineer : Kane  
Measurement Antenna Pol. : VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-57.09	-26.59	-30.05	-0.45	-25.00	-32.09
146.40	-68.83	-60.32	-7.51	-1.00	-25.00	-43.83
245.34	-65.17	-61.94	-1.94	-1.29	-25.00	-40.17
318.09	-65.23	-61.86	-1.89	-1.48	-25.00	-40.23
614.91	-65.69	-62.36	-1.25	-2.08	-25.00	-40.69
924.34	-62.67	-58.75	-1.34	-2.58	-25.00	-37.67
5360.00	-44.64	-51.04	13.26	-6.86	-25.00	-19.64
8040.00	-33.95	-36.12	10.58	-8.41	-25.00	-8.95

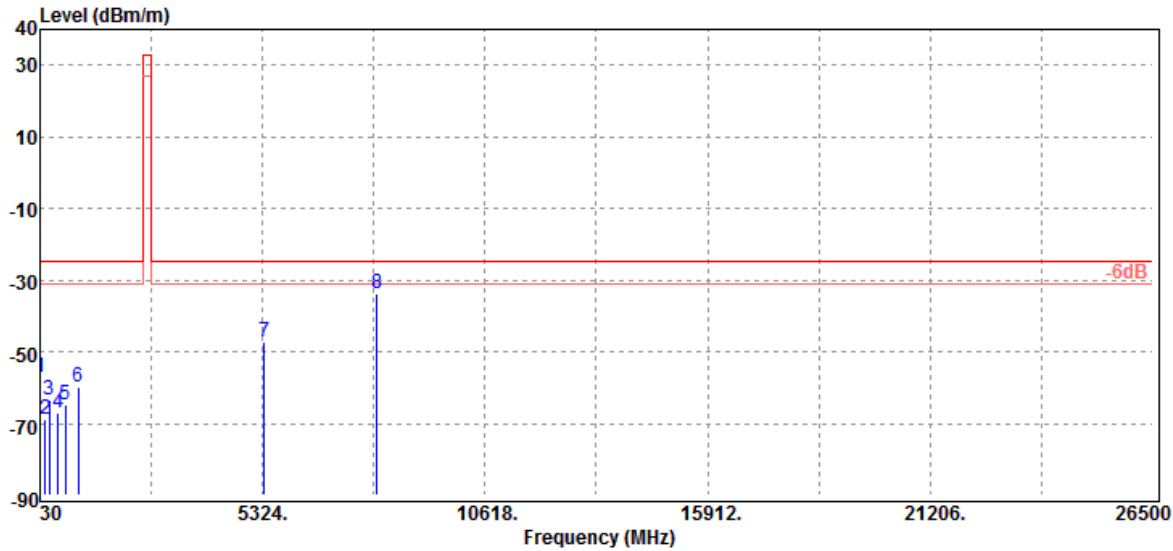
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Project Number : T190328W01  
Operation Band :LTE B41 20M QPSK 1,0  
Fundamental Frequency :2680 MHz  
Operation Mode :TX CH HIGH  
EUT Pol. :H Plan

Test Date :2019-04-17  
Temp./Humi. :19/53  
Engineer :Kane  
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-57.09	-26.59	-30.05	-0.45	-25.00	-32.09
146.40	-68.83	-60.32	-7.51	-1.00	-25.00	-43.83
244.37	-63.53	-60.27	-1.97	-1.29	-25.00	-38.53
453.89	-67.21	-63.39	-2.05	-1.77	-25.00	-42.21
642.07	-64.94	-61.11	-1.71	-2.12	-25.00	-39.94
934.04	-59.84	-55.92	-1.33	-2.59	-25.00	-34.84
5360.00	-47.35	-53.75	13.26	-6.86	-25.00	-22.35
8040.00	-33.71	-35.88	10.58	-8.41	-25.00	-8.71

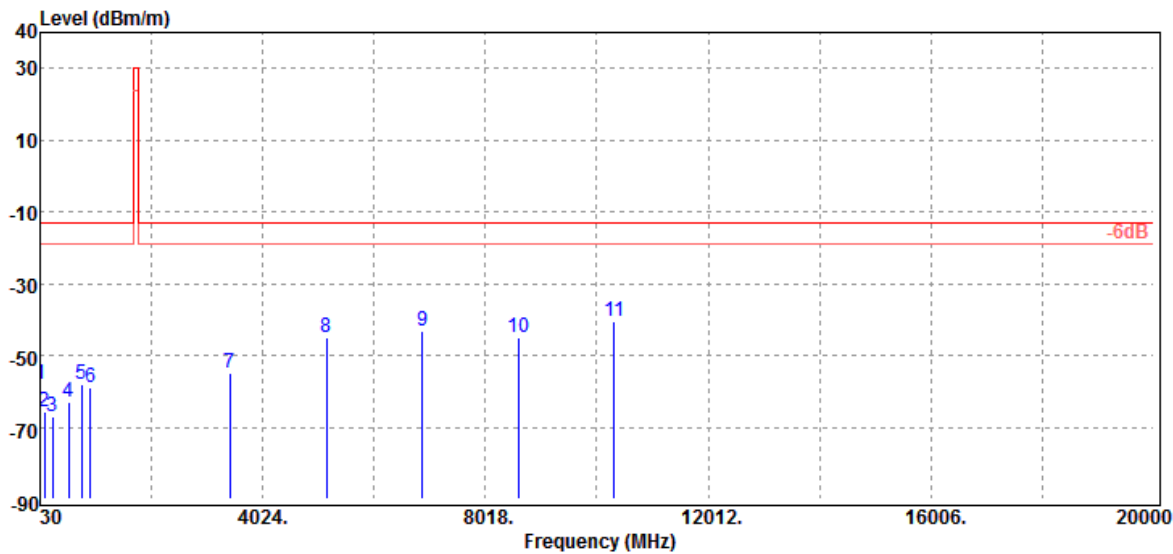
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**Radiated Spurious Emission Measurement Result: LTE-Band 66 (The Worst Case)**

Project Number	: T190328W01	Test Date	: 2019-04-17
Operation Band	: LTE B66 20M QPSK 1,0	Temp./Humi.	: 19/53
Fundamental Frequency	: 1720 MHz	Engineer	: Kane
Operation Mode	: TX CH LOW	Measurement Antenna Pol.	: VERTICAL
EUT Pol.	: H Plan		



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-57.96	-27.46	-30.05	-0.45	-13.00	-44.96
105.66	-65.84	-55.58	-9.42	-0.84	-13.00	-52.84
259.89	-67.21	-64.04	-1.84	-1.33	-13.00	-54.21
539.25	-63.07	-59.89	-1.25	-1.93	-13.00	-50.07
775.93	-58.07	-54.28	-1.45	-2.34	-13.00	-45.07
933.07	-59.04	-55.14	-1.31	-2.59	-13.00	-46.04
3440.00	-54.88	-62.12	12.72	-5.48	-13.00	-41.88
5160.00	-44.85	-50.87	12.76	-6.74	-13.00	-31.85
6880.00	-43.36	-47.01	11.56	-7.91	-13.00	-30.36
8600.00	-45.14	-47.8	11.40	-8.74	-13.00	-32.14
10320.00	-40.57	-42.36	11.50	-9.71	-13.00	-27.57

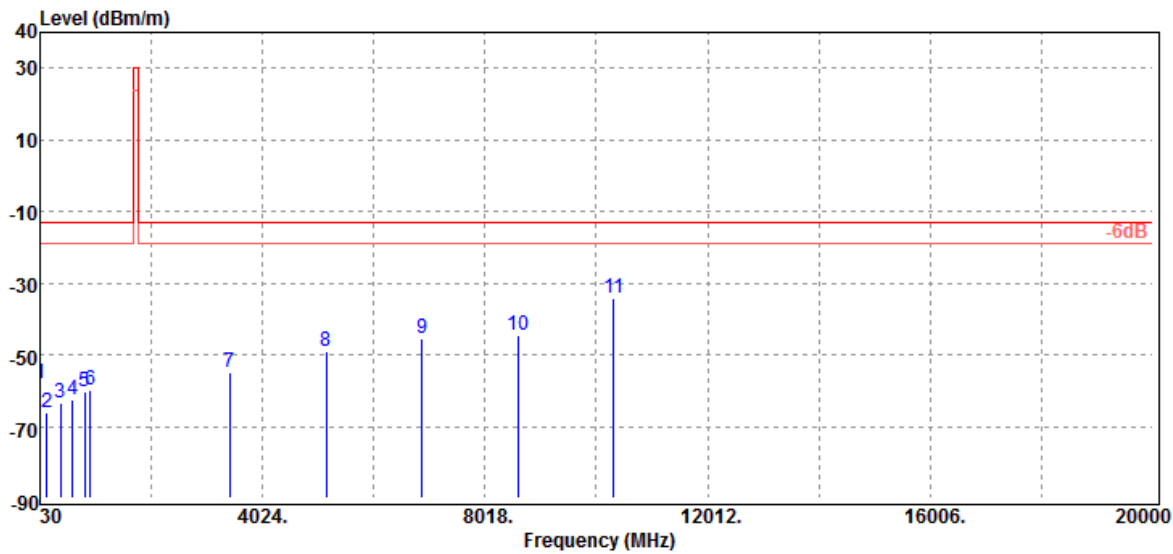
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Project Number : T190328W01  
Operation Band :LTE B66 20M QPSK 1,0  
Fundamental Frequency :1720 MHz  
Operation Mode :TX CH LOW  
EUT Pol. :H Plan

Test Date :2019-04-17  
Temp./Humi. :19/53  
Engineer :Kane  
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-58.04	-27.54	-30.05	-0.45	-13.00	-45.04
149.31	-66.14	-57.92	-7.22	-1.00	-13.00	-53.14
396.66	-63.56	-60.33	-1.58	-1.65	-13.00	-50.56
611.03	-62.67	-59.43	-1.17	-2.07	-13.00	-49.67
838.98	-60.31	-56.41	-1.45	-2.45	-13.00	-47.31
933.07	-59.82	-55.92	-1.31	-2.59	-13.00	-46.82
3440.00	-54.86	-62.1	12.72	-5.48	-13.00	-41.86
5160.00	-48.85	-54.87	12.76	-6.74	-13.00	-35.85
6880.00	-45.32	-48.97	11.56	-7.91	-13.00	-32.32
8600.00	-44.65	-47.31	11.40	-8.74	-13.00	-31.65
10320.00	-34.38	-36.17	11.50	-9.71	-13.00	-21.38

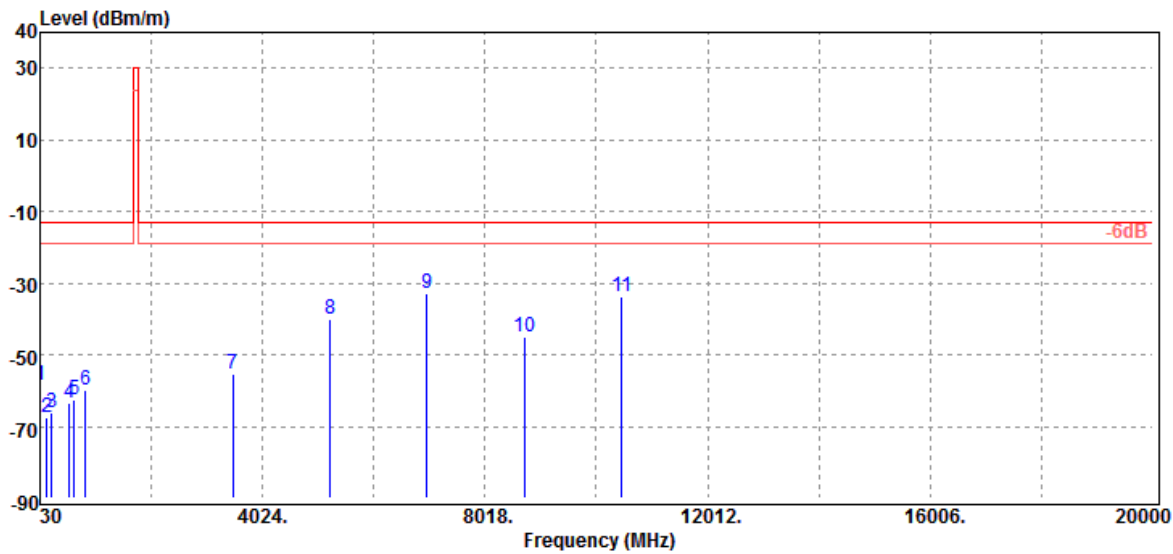
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Project Number : T190328W01  
Operation Band :LTE B66 20M QPSK 1,0  
Fundamental Frequency :1745 MHz  
Operation Mode :TX CH MID  
EUT Pol. :H Plan

Test Date :2019-04-17  
Temp./Humi. :19/53  
Engineer :Kane  
Measurement Antenna Pol. :VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-58.43	-27.93	-30.05	-0.45	-13.00	-45.43
150.28	-67.43	-59.29	-7.13	-1.01	-13.00	-54.43
244.37	-66.26	-63	-1.97	-1.29	-13.00	-53.26
555.74	-63.67	-60.36	-1.35	-1.96	-13.00	-50.67
638.19	-62.48	-58.66	-1.71	-2.11	-13.00	-49.48
849.65	-59.77	-55.95	-1.35	-2.47	-13.00	-46.77
3490.00	-55.22	-62.24	12.54	-5.52	-13.00	-42.22
5235.00	-40.05	-46.38	13.14	-6.81	-13.00	-27.05
6980.00	-32.89	-36.22	11.12	-7.79	-13.00	-19.89
8725.00	-45.16	-47.84	11.50	-8.82	-13.00	-32.16
10470.00	-33.63	-35.13	11.17	-9.67	-13.00	-20.63

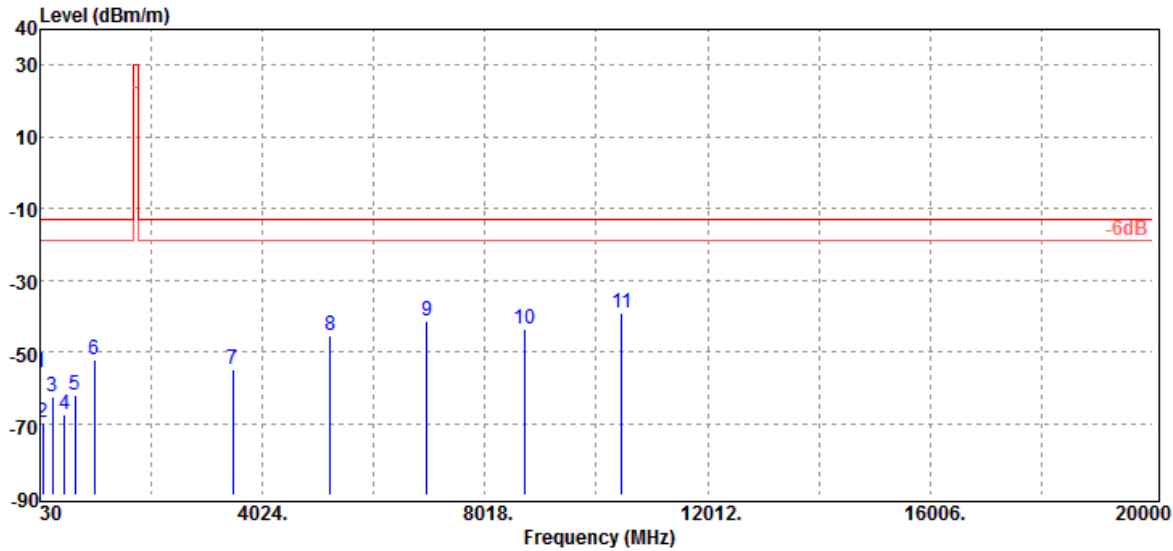
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Project Number : T190328W01  
Operation Band :LTE B66 20M QPSK 1,0  
Fundamental Frequency :1745 MHz  
Operation Mode :TX CH MID  
EUT Pol. :H Plan

Test Date :2019-04-17  
Temp./Humi. :19/53  
Engineer :Kane  
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.97	-55.85	-26.33	-29.06	-0.46	-13.00	-42.85
83.35	-69.87	-61	-8.11	-0.76	-13.00	-56.87
247.28	-62.54	-59.38	-1.86	-1.30	-13.00	-49.54
476.20	-67.38	-63.2	-2.37	-1.81	-13.00	-54.38
664.38	-62.12	-58.5	-1.45	-2.17	-13.00	-49.12
1000.00	-52.01	-47.88	-1.45	-2.68	-13.00	-39.01
3490.00	-55.06	-62.08	12.54	-5.52	-13.00	-42.06
5235.00	-45.27	-51.6	13.14	-6.81	-13.00	-32.27
6980.00	-41.59	-44.92	11.12	-7.79	-13.00	-28.59
8725.00	-43.86	-46.54	11.50	-8.82	-13.00	-30.86
10470.00	-39.06	-40.56	11.17	-9.67	-13.00	-26.06

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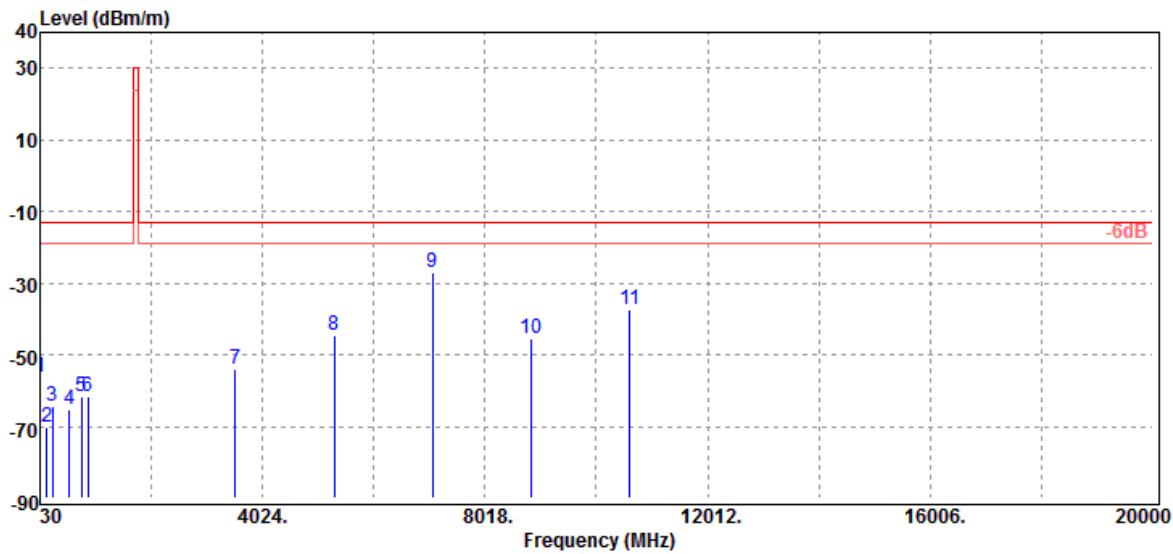
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Project Number : T190328W01  
Operation Band :LTE B66 20M QPSK 1,0  
Fundamental Frequency :1770 MHz  
Operation Mode :TX CH HIGH  
EUT Pol. :H Plan

Test Date :2019-04-17  
Temp./Humi. :19/53  
Engineer :Kane  
Measurement Antenna Pol. :VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-56.44	-25.94	-30.05	-0.45	-13.00	-43.44
149.31	-70.04	-61.82	-7.22	-1.00	-13.00	-57.04
247.28	-64.34	-61.18	-1.86	-1.30	-13.00	-51.34
559.62	-65.25	-61.93	-1.35	-1.97	-13.00	-52.25
775.93	-61.83	-58.04	-1.45	-2.34	-13.00	-48.83
895.24	-61.53	-57.74	-1.25	-2.54	-13.00	-48.53
3540.00	-53.86	-60.68	12.42	-5.60	-13.00	-40.86
5310.00	-44.41	-50.74	13.22	-6.89	-13.00	-31.41
7080.00	-27.22	-30.2	10.88	-7.90	-13.00	-14.22
8850.00	-45.51	-48.42	11.80	-8.89	-13.00	-32.51
10620.00	-37.32	-38.87	11.34	-9.79	-13.00	-24.32

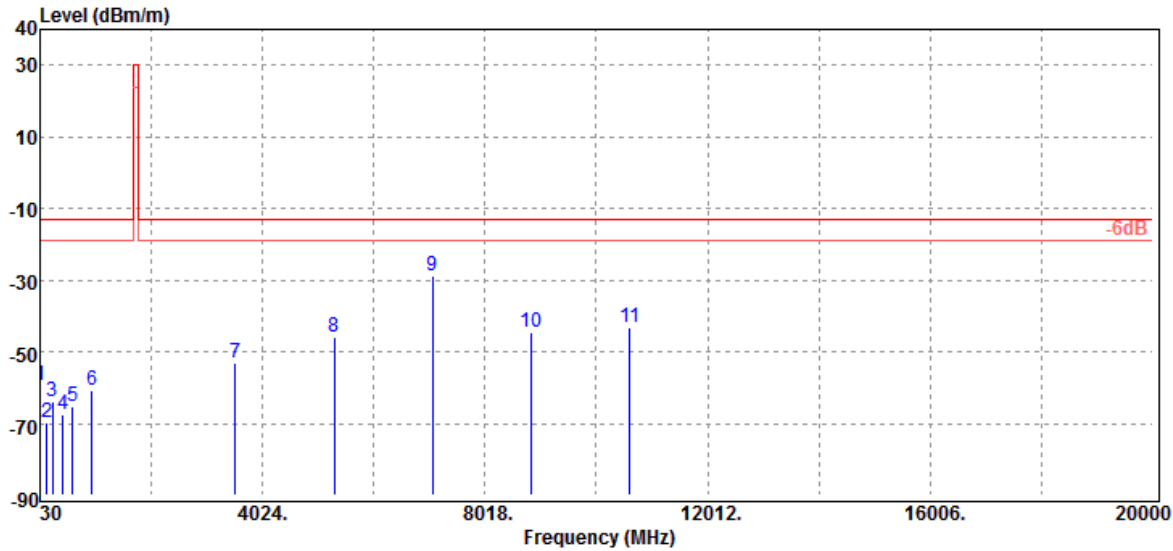
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Project Number : T190328W01  
Operation Band : LTE B66 20M QPSK 1,0  
Fundamental Frequency : 1770 MHz  
Operation Mode : TX CH HIGH  
EUT Pol. : H Plan

Test Date : 2019-04-17  
Temp./Humi. : 19/53  
Engineer : Kane  
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
34.85	-59.48	-33.6	-25.38	-0.50	-13.00	-46.48
150.28	-69.92	-61.78	-7.13	-1.01	-13.00	-56.92
250.19	-64.09	-61.04	-1.74	-1.31	-13.00	-51.09
444.19	-67.29	-63.49	-2.05	-1.75	-13.00	-54.29
620.73	-65.29	-61.85	-1.36	-2.08	-13.00	-52.29
967.02	-60.84	-56.9	-1.31	-2.63	-13.00	-47.84
3540.00	-53.28	-60.1	12.42	-5.60	-13.00	-40.28
5310.00	-45.90	-52.23	13.22	-6.89	-13.00	-32.90
7080.00	-28.84	-31.82	10.88	-7.90	-13.00	-15.84
8850.00	-44.37	-47.28	11.80	-8.89	-13.00	-31.37
10620.00	-43.41	-44.96	11.34	-9.79	-13.00	-30.41

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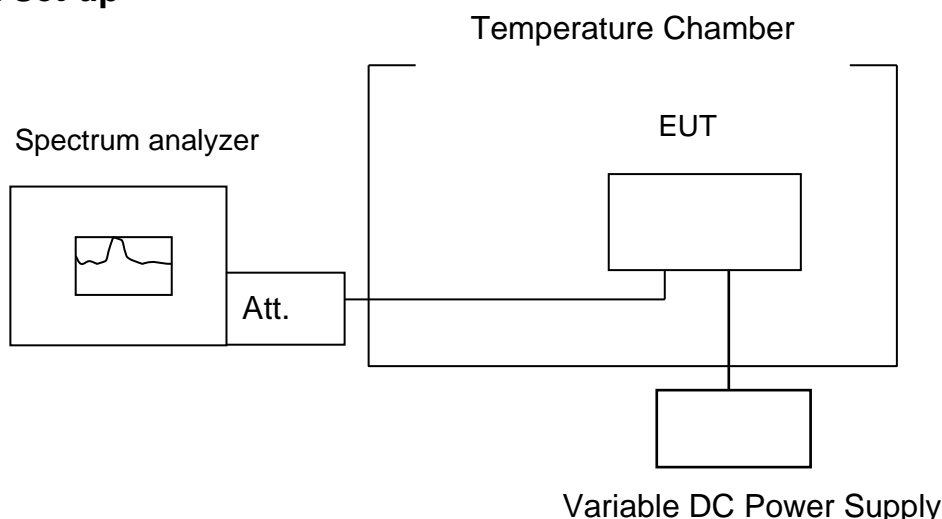
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## 10. FREQUENCY STABILITY MEASUREMENT

### 10.1. Standard Applicabl

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

### 10.2. Test Set-up



**Note:** Measurement setup for testing on Antenna connector

### 10.3. Measurement Procedure

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

Set chamber temperature to 25°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency. Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint as declared by the manufacturer, record the maximum frequency change.

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**10.4. Measurement Equipment Used**

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Radio Communication Analyzer	Anritsu	MT8820C	6201465317	01/16/2019	01/15/2020
Spectrum Analyzer	Agilent	N9010A	MY53400256	11/21/2018	11/20/2019
DC Power Supply	Agilent	E3640A	MY53130054	09/03/2018	09/02/2019
Thermostatic/Hygrosatic Chamber	TAICHY	MHG-150LF	930619	10/08/2018	10/07/2019
DC Block	PASTERNAK	PE8210	RF256	02/26/2019	02/25/2020
Splitter	Woken	DOM35LW1A2	RF83	02/26/2019	02/25/2020
Attenuator	Marvelous	MVE2213-10	RF80	02/26/2019	02/25/2020

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## 10.5. Measurement Result

WCDMA II Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
7.7	20	1880.000008	8	4700
7.2 (End point)	20	1879.999991	-9	4700
FREQUENCY ERROR vs. Temp.				
7.7	50	1879.999998	-2	4700
7.7	40	1880.000008	8	4700
7.7	30	1880.000005	5	4700
7.7	20	1880.000008	8	4700
7.7	10	1879.999999	-10	4700
7.7	0	1879.999993	-7	4700
7.7	-10	1880	0	4700
7.7	-20	1879.999999	-1	4700
7.7	-30	1880.000009	9	4700

WCDMA IV Mid Channel 1732.6 MHz				
Limit: +/- 2.5 ppm				
Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
7.7	20	1732.600006	6	4331
7.2 (End point)	20	1732.599994	-6	4331
FREQUENCY ERROR vs. Temp.				
7.7	50	1732.600004	4	4331
7.7	40	1732.600002	2	4331
7.7	30	1732.600003	3	4331
7.7	20	1732.600006	6	4331
7.7	10	1732.6	0	4331
7.7	0	1732.6	0	4331
7.7	-10	1732.600002	2	4331
7.7	-20	1732.599996	-4	4331
7.7	-30	1732.599999	-1	4331

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WCDMA V Mid Channel		836.6	MHz	
Limit: +/- 2.5 ppm				
Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
7.7	20	836.600006	6	2091
7.2 (End point)	20	836.599999	-10	2091
FREQUENCY ERROR vs. Temp.				
7.7	50	836.600001	1	2091
7.7	40	836.600003	3	2091
7.7	30	836.600004	4	2091
7.7	20	836.600006	6	2091
7.7	10	836.599991	-9	2091
7.7	0	836.599998	-2	2091
7.7	-10	836.599992	-8	2091
7.7	-20	836.600002	2	2091
7.7	-30	836.600005	5	2091

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Reference Freq.:		LTE B2 Mid Channel		1880	MHz 20M QPSK CH 18900
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)	
Freq. ERROR vs. VOLTAGE					
7.7	25	1880.000004	4	4700	
7.2 (End Point)	25	1879.999996	-4	4700	
Freq. ERROR vs. Temp.					
7.7	-30	1880.000009	9	4700	
7.7	-20	1879.999996	-4	4700	
7.7	-10	1880.000008	8	4700	
7.7	0	1880.000002	2	4700	
7.7	10	1880.000006	6	4700	
7.7	20	1879.999997	-3	4700	
7.7	30	1879.999999	-1	4700	
7.7	40	1880.000008	8	4700	
7.7	50	1880.000004	4	4700	

Reference Freq.:		LTE B4 Mid Channel		1732.5	MHz 20M QPSK CH 20175
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)	
Freq. ERROR vs. VOLTAGE					
7.7	25	1732.499996	-4	4331	
7.2 (End Point)	25	1732.500005	5	4331	
Freq. ERROR vs. Temp.					
7.7	-30	1732.500007	7	4331	
7.7	-20	1732.500004	4	4331	
7.7	-10	1732.500001	1	4331	
7.7	0	1732.499995	-5	4331	
7.7	10	1732.500008	8	4331	
7.7	20	1732.500002	2	4331	
7.7	30	1732.499998	-2	4331	
7.7	40	1732.500007	7	4331	
7.7	50	1732.500007	7	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					
7.7	25	836.499996	-4	2091	
7.2 (End Point)	25	836.500007	7	2091	
Freq. ERROR vs. Temp.					
7.7	-30	836.499998	-2	2091	
7.7	-20	836.500006	6	2091	
7.7	-10	836.500003	3	2091	
7.7	0	836.499996	-4	2091	
7.7	10	836.500002	2	2091	
7.7	20	836.500000	0	2091	
7.7	30	836.499997	-3	2091	
7.7	40	836.499997	-3	2091	
7.7	50	836.500000	0	2091	

Reference Freq.:		LTE B7 Mid Channel		2535	MHz 10M QPSK CH 21100
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)	
Freq. ERROR vs. VOLTAGE					
7.7	25	2535.000009	9	6338	
7.2 (End Point)	25	2535.000008	8	6338	
Freq. ERROR vs. Temp.					
7.7	-30	2534.999998	-2	6338	
7.7	-20	2535.000006	6	6338	
7.7	-10	2535.000006	6	6338	
7.7	0	2534.999999	-1	6338	
7.7	10	2535.000001	1	6338	
7.7	20	2535.000008	8	6338	
7.7	30	2535.000008	8	6338	
7.7	40	2535.000001	1	6338	
7.7	50	2535.000002	2	6338	

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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					
7.7	25	707.499996	-4	1769	
7.2 (End Point)	25	707.500000	0	1769	
Freq. ERROR vs. Temp.					
7.7	-30	707.500009	9	1769	
7.7	-20	707.500007	7	1769	
7.7	-10	707.500006	6	1769	
7.7	0	707.500003	3	1769	
7.7	10	707.500009	9	1769	
7.7	20	707.499998	-2	1769	
7.7	30	707.500007	7	1769	
7.7	40	707.499995	-5	1769	
7.7	50	707.500006	6	1769	

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					
7.7	25	782.000001	1	1955	
7.2 (End Point)	25	782.000008	8	1955	
Freq. ERROR vs. Temp.					
7.7	-30	782.000002	2	1955	
7.7	-20	781.999998	-2	1955	
7.7	-10	782.000005	5	1955	
7.7	0	782.000006	6	1955	
7.7	10	782.000000	0	1955	
7.7	20	781.999998	-2	1955	
7.7	30	782.000007	7	1955	
7.7	40	781.999995	-5	1955	
7.7	50	782.000005	5	1955	

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Reference Freq.:		LTE B17 Mid Channel		710	MHz 10M QPSK CH 23790
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)	
Freq. ERROR vs. VOLTAGE					
7.7	25	709.999995	-5	1775	
7.2 (End Point)	25	710.000007	7	1775	
Freq. ERROR vs. Temp.					
7.7	-30	710.000001	1	1775	
7.7	-20	710.000006	6	1775	
7.7	-10	709.999998	-2	1775	
7.7	0	710.000001	1	1775	
7.7	10	710.000003	3	1775	
7.7	20	710.000009	9	1775	
7.7	30	709.999998	-2	1775	
7.7	40	709.999999	-1	1775	
7.7	50	709.999998	-2	1775	

Reference Freq.:		LTE B26 Mid Channel		831.5	MHz 15M QPSK CH 26865
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)	
Freq. ERROR vs. VOLTAGE					
7.7	25	831.500005	5	2091	
7.2 (End Point)	25	831.500009	9	2091	
Freq. ERROR vs. Temp.					
7.7	-30	831.500008	8	2091	
7.7	-20	831.499999	-1	2091	
7.7	-10	831.500006	6	2091	
7.7	0	831.500001	1	2091	
7.7	10	831.499997	-3	2091	
7.7	20	831.500009	9	2091	
7.7	30	831.499996	-4	2091	
7.7	40	831.500003	3	2091	
7.7	50	831.500008	8	2091	

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Reference Freq.:		Part 90 LTE B26 Mid Channel		819 MHz 10M QPSK CH 26740
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE (LTE B26 for Part 90S)				
7.7	25	819.000003	3	2048
7.2 (End Point)	25	819.000000	0	2048
Freq. ERROR vs. Temp.				
7.7	-30	819.000009	9	2048
7.7	-20	819.000000	0	2048
7.7	-10	818.999999	-1	2048
7.7	0	818.999997	-3	2048
7.7	10	819.000007	7	2048
7.7	20	819.000005	5	2048
7.7	30	819.000007	7	2048
7.7	40	819.000003	3	2048
7.7	50	819.000001	1	2048

Reference Freq.:		LTE B30 Mid Channel		2310 MHz 10M QPSK CH 27710
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
7.7	25	2309.999999	-1	6488
7.2 (End Point)	25	2310.000000	0	6488
Freq. ERROR vs. Temp.				
7.7	-30	2310.000005	5	6488
7.7	-20	2310.000000	0	6488
7.7	-10	2309.999996	-4	6488
7.7	0	2310.000004	4	6488
7.7	10	2310.000008	8	6488
7.7	20	2310.000000	0	6488
7.7	30	2309.999998	-2	6488
7.7	40	2309.999999	-1	6488
7.7	50	2310.000006	6	6488

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Reference Freq.:		LTE B38 Mid Channel		2595	MHz 10M QPSK CH 38000
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)	
Freq. ERROR vs. VOLTAGE					
7.7	25	2595.000006	6	6488	
7.2 (End Point)	25	2594.999995	-5	6488	
Freq. ERROR vs. Temp.					
7.7	-30	2594.999998	-2	6488	
7.7	-20	2595.000002	2	6488	
7.7	-10	2594.999997	-3	6488	
7.7	0	2595.000007	7	6488	
7.7	10	2595.000009	9	6488	
7.7	20	2594.999996	-4	6488	
7.7	30	2595.000004	4	6488	
7.7	40	2594.999998	-2	6488	
7.7	50	2595.000007	7	6488	

Reference Freq.:		LTE B41 Mid Channel		2593	MHz 10M QPSK CH 40620
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)	
Freq. ERROR vs. VOLTAGE					
7.7	25	2593.000008	8	6488	
7.2 (End Point)	25	2593.000008	8	6488	
Freq. ERROR vs. Temp.					
7.7	-30	2593.000000	0	6488	
7.7	-20	2592.999996	-4	6488	
7.7	-10	2593.000005	5	6488	
7.7	0	2593.000007	7	6488	
7.7	10	2593.000001	1	6488	
7.7	20	2592.999997	-3	6488	
7.7	30	2592.999997	-3	6488	
7.7	40	2592.999999	-1	6488	
7.7	50	2592.999995	-5	6488	

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Reference Freq.:		LTE B66 Mid Channel		1745	MHz 10M QPSK CH 132322
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)	
Freq. ERROR vs. VOLTAGE					
7.7	25	1745.000000	0	6488	
7.2 (End Point)	25	1745.000009	9	6488	
Freq. ERROR vs. Temp.					
7.7	-30	1745.000002	2	6488	
7.7	-20	1745.000002	2	6488	
7.7	-10	1745.000001	1	6488	
7.7	0	1744.999998	-2	6488	
7.7	10	1745.000007	7	6488	
7.7	20	1745.000001	1	6488	
7.7	30	1744.999998	-2	6488	
7.7	40	1745.000007	7	6488	
7.7	50	1745.000003	3	6488	

**Note: The battery is rated 7.7V dc.**

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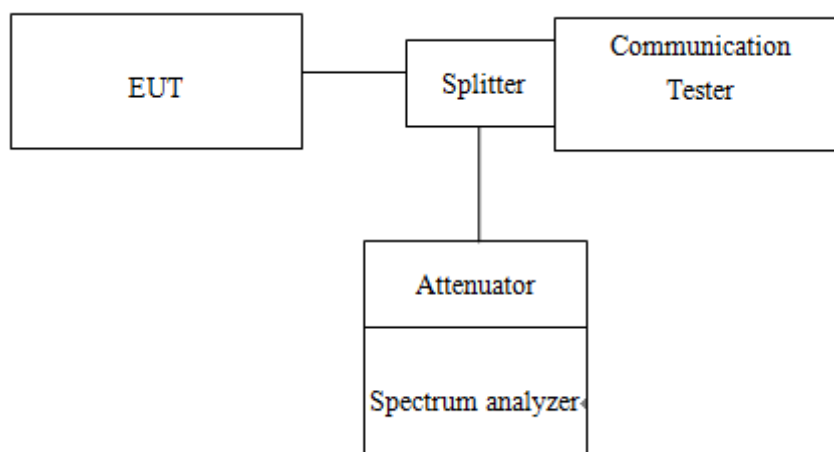
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## 11. PEAK TO AVERAGE RATIO

### 11.1. Standard Applicable

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

### 11.2. Test SET-UP



### 11.3. Measurement Procedure

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

### 11.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Radio Communication Analyzer	Anritsu	MT8820C	6201465317	01/16/2019	01/15/2020
Spectrum Analyzer	Agilent	N9010A	MY53400256	11/21/2018	11/20/2019
DC Power Supply	Agilent	E3640A	MY53130054	09/03/2018	09/02/2019
Thermostatic/Hrgrosatic Chamber	TAICHY	MHG-150LF	930619	10/08/2018	10/07/2019
DC Block	PASTER-NACK	PE8210	RF256	02/26/2019	02/25/2020
Splitter	Woken	DOM35LW1A2	RF83	02/26/2019	02/25/2020
Attenuator	Marvelous	MVE2213-10	RF80	02/26/2019	02/25/2020

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## 11.5. Measurement Result

### Tabular Results:

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA II	HSDPA II	HSUPA II
1852.4	9262	3.82	4.08	4.09
1880	9400	4.28	3.96	4.08
1907.6	9538	3.72	3.99	3.85

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA IV	HSDPA IV	HSUPA IV
1712.4	1312	4.20	4.09	4.04
1732.6	1413	4.10	4.10	4.06
1752.6	1513	4.09	4.23	3.99

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA V	HSDPA V	HSUPA V
826.4	4132	4.00	4.07	3.88
836.6	4183	3.96	4.00	3.91
846.6	4233	3.83	3.94	3.84

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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	6.64	13	1851.5	18615	6.78	13
1880.0	18900	6.58	13	1880.0	18900	6.61	13
1909.3	19193	6.13	13	1908.5	19185	6.27	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	6.81	13	1855.0	18650	6.68	13
1880.0	18900	6.62	13	1880.0	18900	6.60	13
1907.5	19175	6.35	13	1905.0	19150	6.54	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	6.66	13	1860.0	18700	6.63	13
1880.0	18900	6.54	13	1880.0	18900	6.71	13
1902.5	19125	6.48	13	1900.0	19100	6.60	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	6.45	13	1711.5	19965	6.54	13
1732.5	20175	6.72	13	1732.5	20175	6.59	13
1754.3	20393	6.43	13	1753.5	20385	6.49	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	19957	6.40	13	1715.0	20000	6.41	13
1732.5	20175	6.50	13	1732.5	20175	6.49	13
1752.5	20375	6.55	13	1750.0	20350	6.37	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	6.46	13	1720.0	20050	6.38	13
1732.5	20175	6.35	13	1732.5	20175	6.41	13
1747.5	20325	6.43	13	1745.0	20300	6.42	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	5.93	13	825.5	20415	6.01	13
836.5	20525	6.69	13	836.5	20525	6.59	13
848.3	20643	6.29	13	847.5	20635	6.36	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	6.10	13	829.0	20450	6.19	13
836.5	20525	6.66	13	836.5	20525	6.56	13
846.5	20625	6.32	13	844.0	20600	6.19	13

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LTE BAND 7							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
2502.5	20775	6.02	13	2505.0	20800	6.10	13
2535.0	21100	5.99	13	2535.0	21100	6.13	13
2567.5	21375	5.96	13	2565.0	21350	6.01	13

LTE BAND 7							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
2507.5	20825	6.04	13	2510	20850	6.01	13
2535.0	21100	6.08	13	2535	21100	6.16	13
2562.5	21375	5.88	13	2560	21350	6.01	13

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	6.47	13	700.5	23025	6.50	13
707.5	23095	6.38	13	707.5	23095	6.31	13
715.3	23173	6.57	13	714.5	23165	6.54	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	6.35	13	704.0	23060	6.31	13
707.5	23095	6.25	13	707.5	23095	6.40	13
713.5	23155	6.35	13	711.0	23130	6.26	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	6.59	13	782.0	23230	6.29	13
782.0	23230	6.44	13				
784.5	23255	6.39	13				

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LTE BAND 17							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
706.5	23755	6.37	13	709.0	23780	6.43	13
710.0	23790	6.50	13	710.0	23790	6.42	13
713.5	23825	6.41	13	711.0	23800	6.27	13

LTE BAND 26							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
814.7	26697	5.93	13	815.5	26705	6.09	13
831.5	26865	6.70	13	831.5	26865	6.71	13
848.3	27033	6.73	13	847.5	27025	6.48	13

LTE BAND 26							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
816.5	26715	6.10	13	820.0	26750	6.11	13
831.5	26865	6.67	13	831.5	26865	6.59	13
846.5	27015	6.23	13	844.0	26990	6.23	13

LTE BAND 26			
Channel bandwidth: 15MHz			
Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit
822.5	26775	6.37	13
831.5	26865	6.43	13
841.5	26965	6.37	13

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LTE BAND 26 for part 90S							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
814.7	26697	6.51	13	815.5	26705	6.45	13
819.0	26740	6.80	13	819	26740	6.44	13
823.3	26783	6.21	13	822.5	26775	6.27	13

LTE BAND 26 for part 90S							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
816.5	26715	6.48	13	819.0	26740	6.55	13
819.0	26740	6.61	13				
821.5	26765	6.49	13				

LTE BAND 30							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-		Freq. (MHz)	CH	Peak-to-	
		6.69	Limit			6.69	Limit
2307.5	27685	6.59	13	2310.0	27710	6.42	13
2310.0	27710	6.43	13				
2312.5	27735	6.57	13				

LTE BAND 38							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
2572.5	37775	7.29	13	2575	37800	6.94	13
2595.0	38000	7.81	13	2595	38000	7.59	13
2617.5	38225	7.04	13	2615	38200	7.84	13

LTE BAND 38							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
2577.5	37825	7.37	13	2580.0	37850	7.32	13
2595.0	38000	7.27	13	2595.0	38000	7.81	13
2612.5	38175	6.69	13	2610.0	38150	6.84	13

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LTE BAND 41							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
2498.5	39675	7.27	13	2501.0	39700	7.67	13
2593.0	40620	6.99	13	2593.0	40620	7.41	13
2687.5	41565	7.14	13	2685.0	41540	7.54	13

LTE BAND 41							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
2503.5	39725	7.13	13	2506.0	39750	7.59	13
2593.0	40620	6.65	13	2593.0	40620	7.51	13
2682.5	41515	6.69	13	2680.0	41490	6.71	13

LTE BAND 66							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1710.7	131979	6.80	13	1711.5	131987	6.60	13
1745.0	132322	6.64	13	1745.0	132322	6.67	13
1779.3	132665	6.86	13	1778.5	132657	6.70	13

LTE BAND 66							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1712.5	131997	6.55	13	1715.0	132022	6.58	13
1745.0	132322	6.66	13	1745.0	132322	6.47	13
1777.5	132647	6.52	13	1775.0	132622	6.50	13

LTE BAND 66							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1717.5	132047	6.55	13	1720.0	132072	6.55	13
1745.0	132322	6.43	13	1745.0	132322	6.51	13
1772.5	132597	6.21	13	1770.0	132572	6.41	13

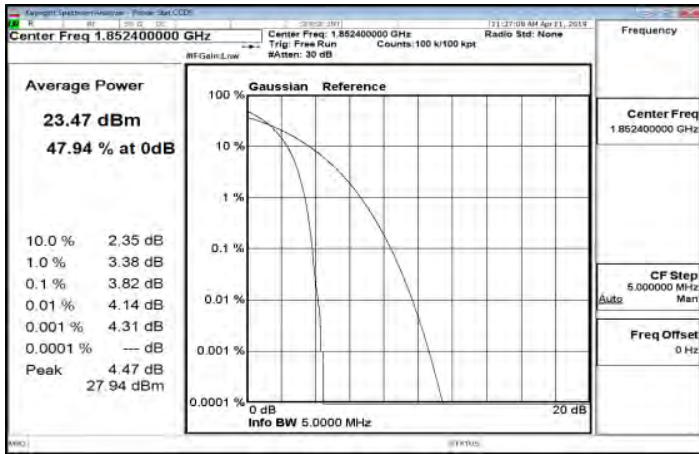
**Please refer to next page for test plots.**

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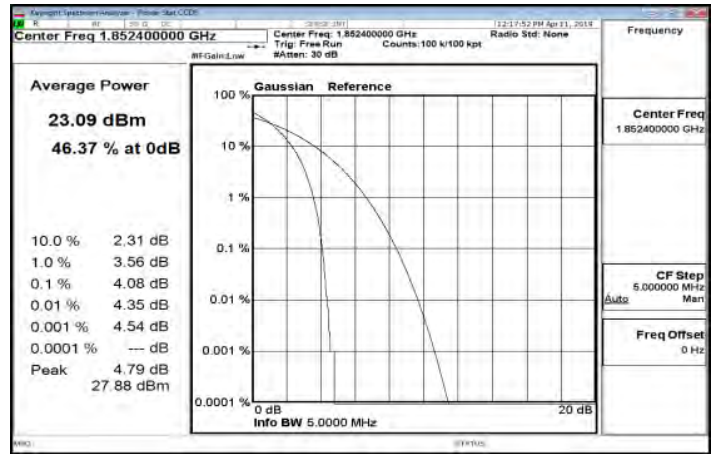
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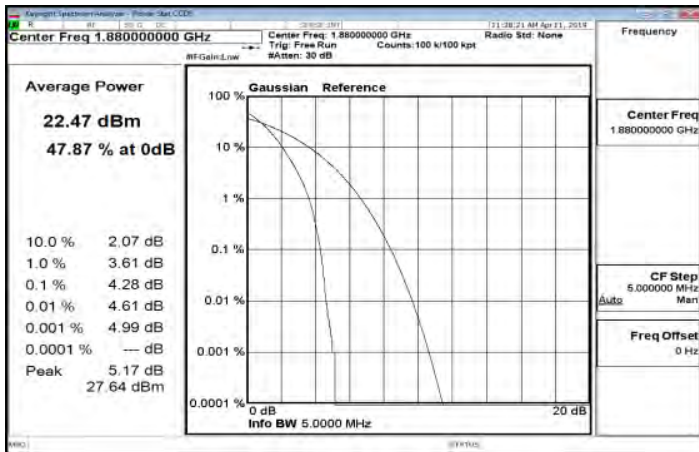
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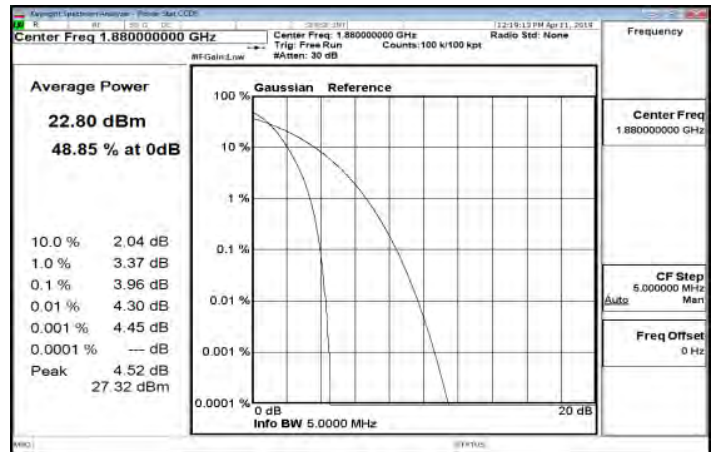
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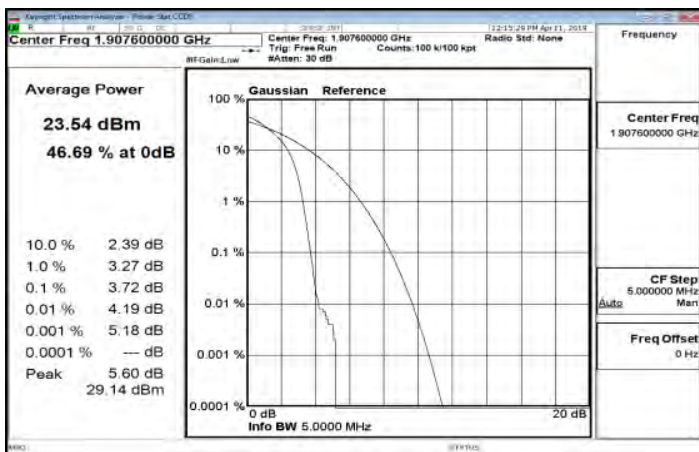
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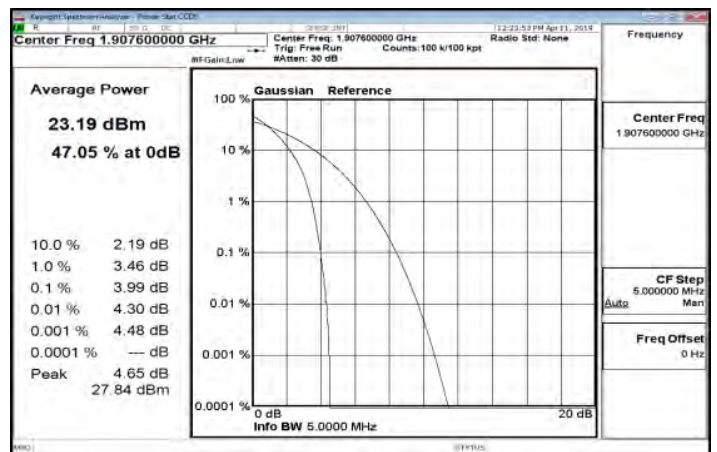
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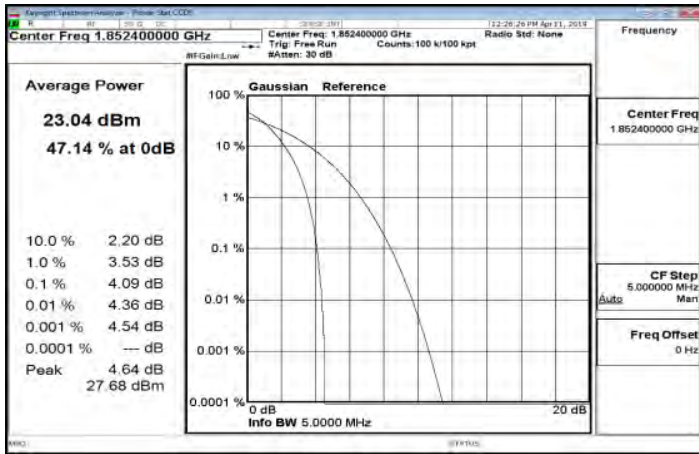


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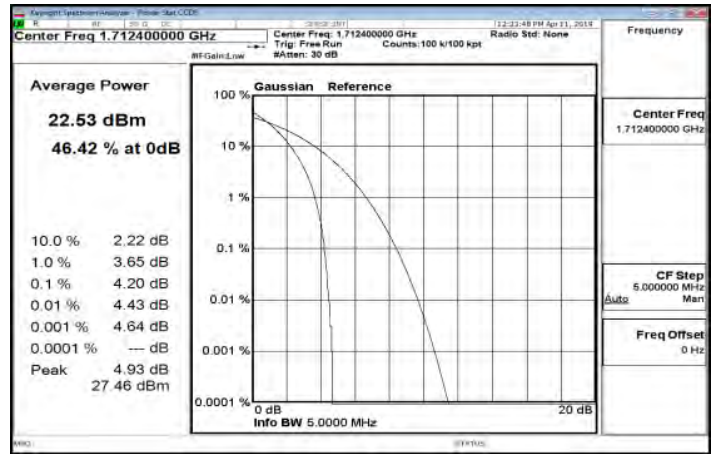
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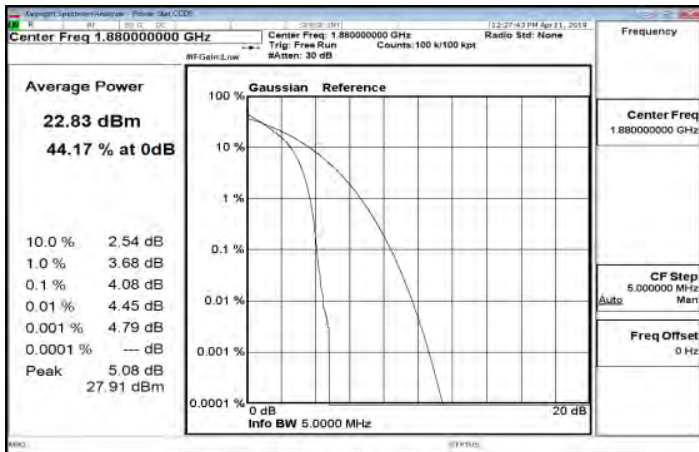
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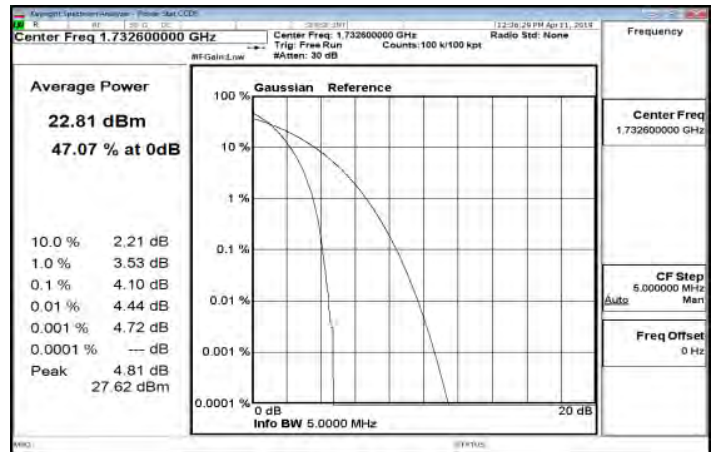
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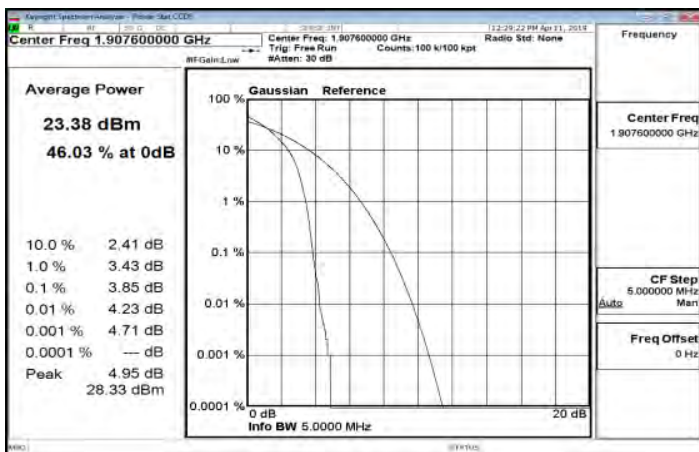
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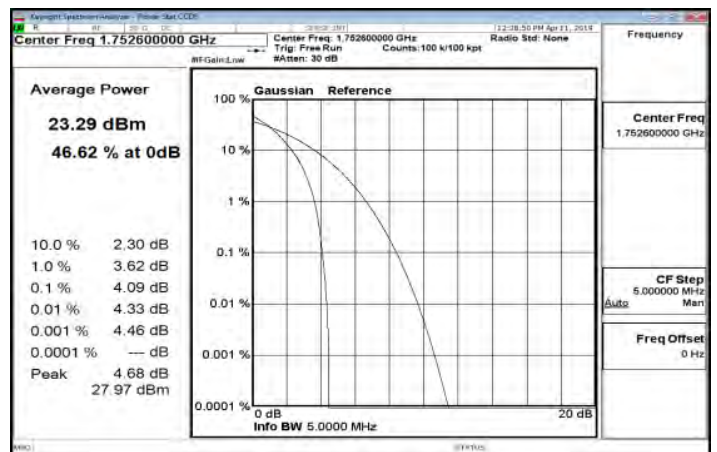
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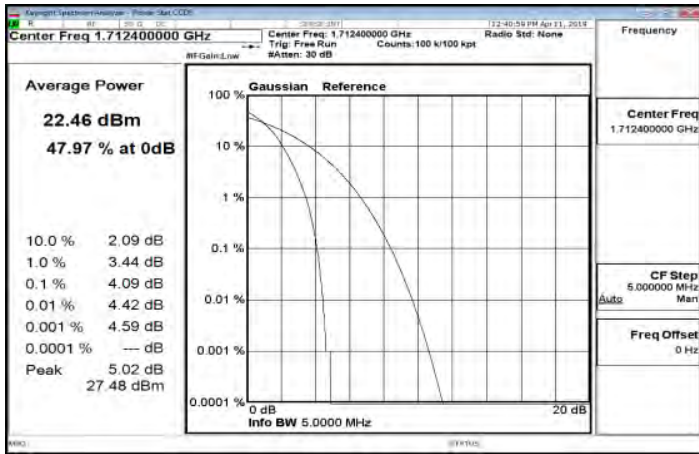
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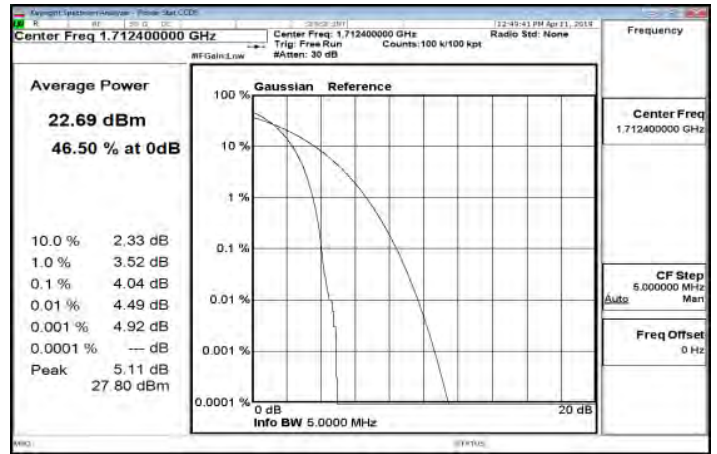
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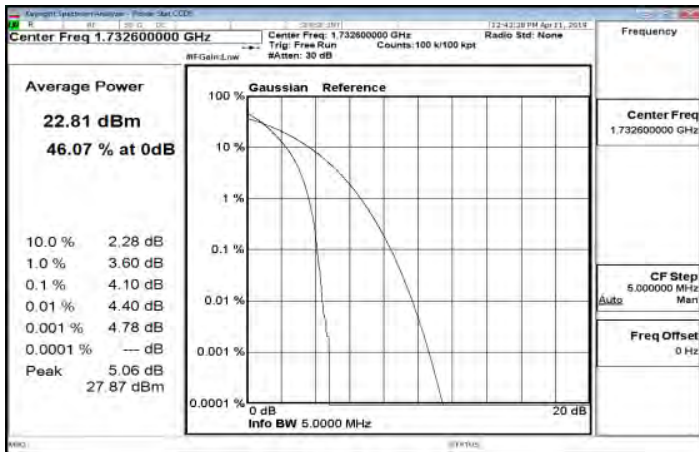
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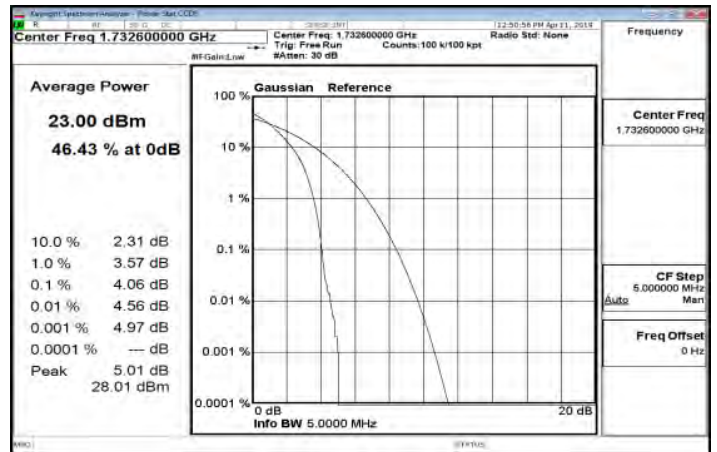
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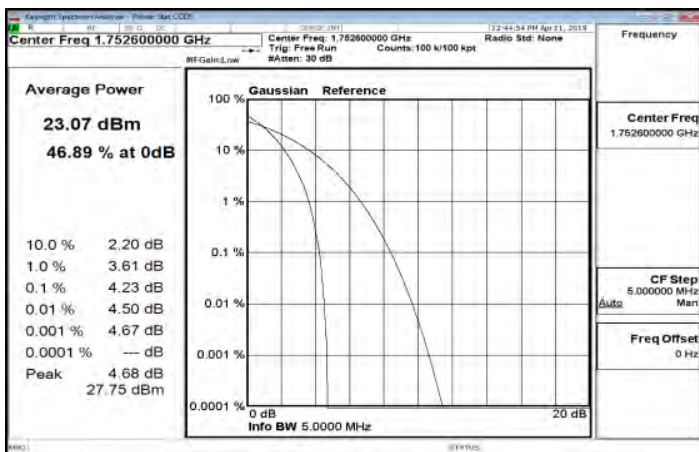
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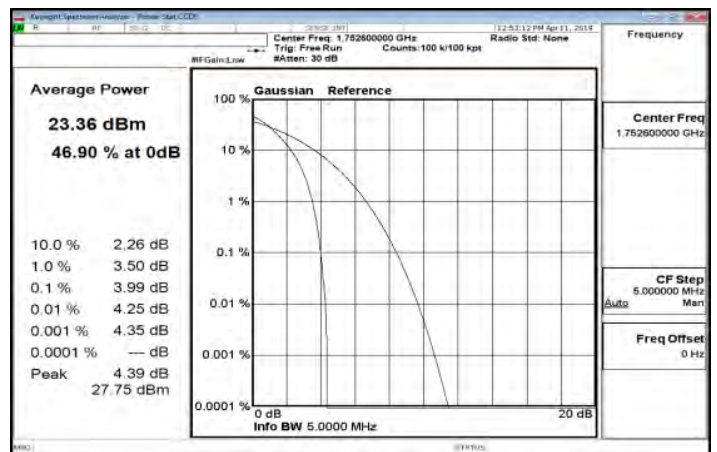
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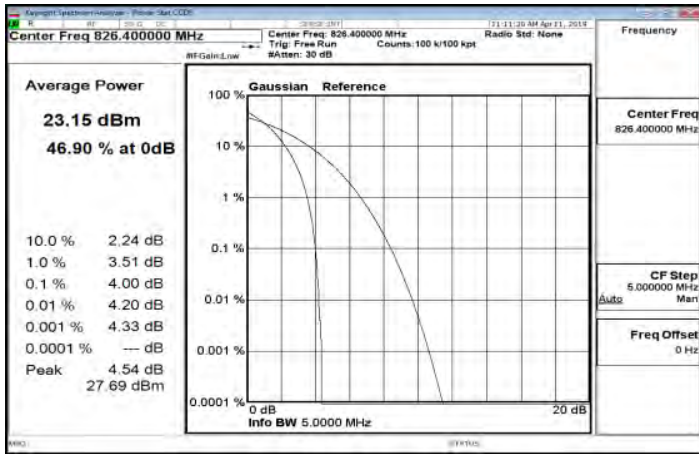


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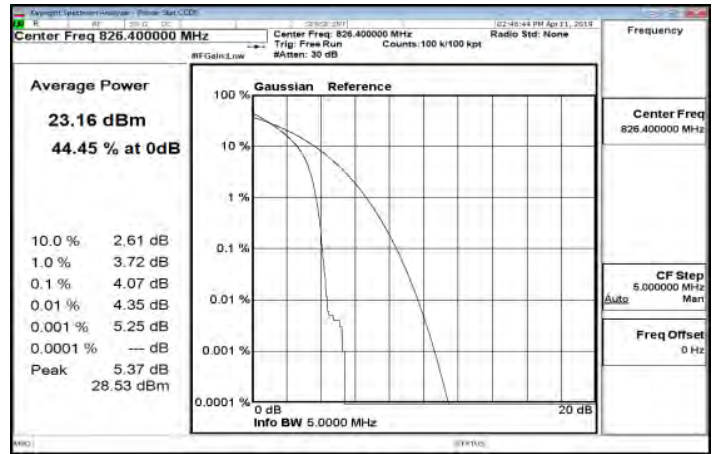
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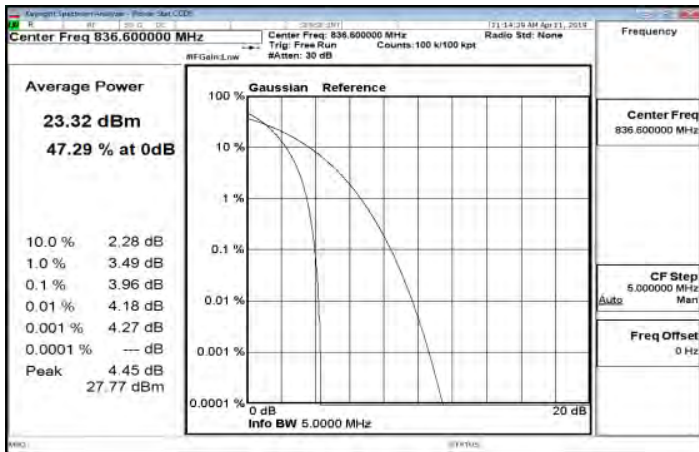
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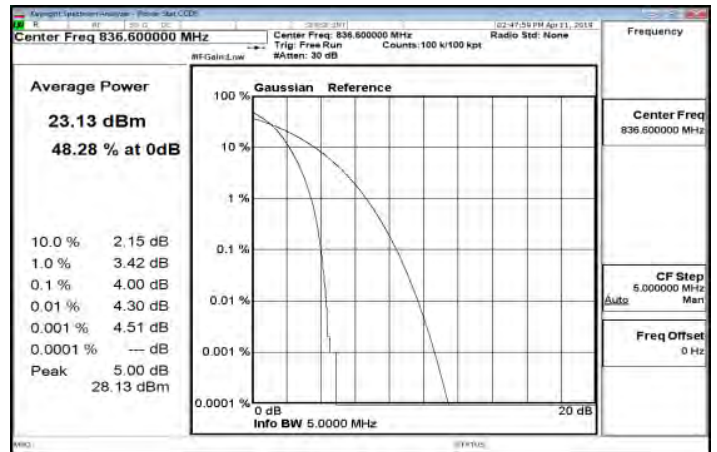
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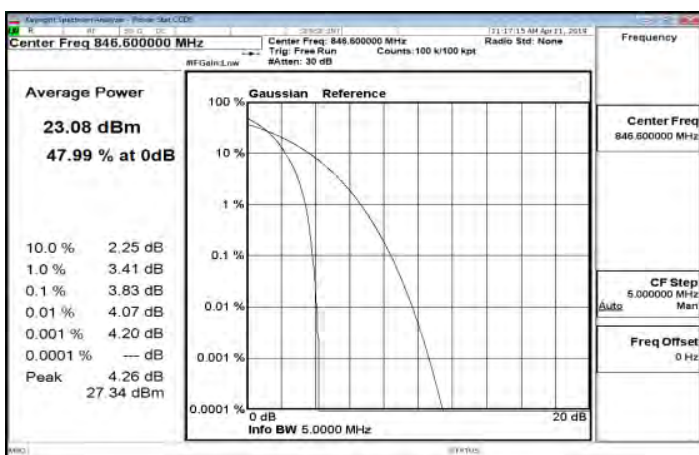
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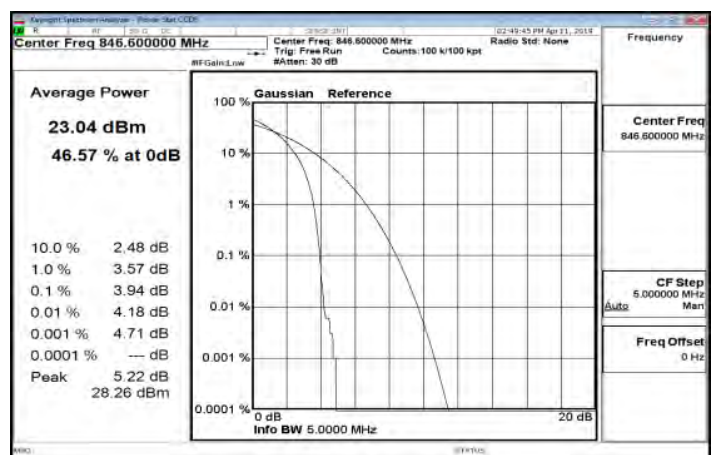
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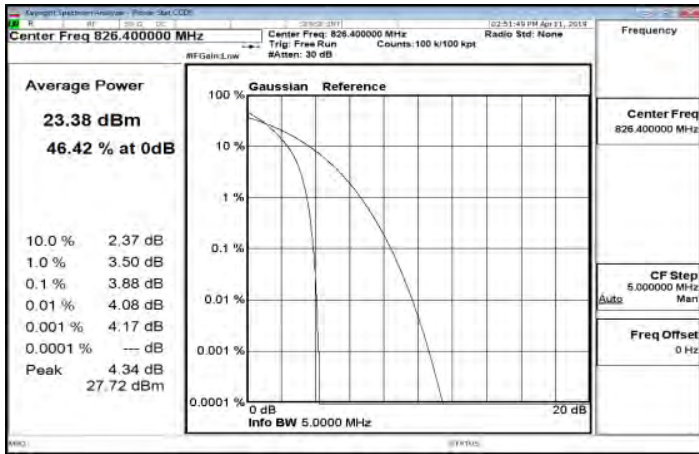
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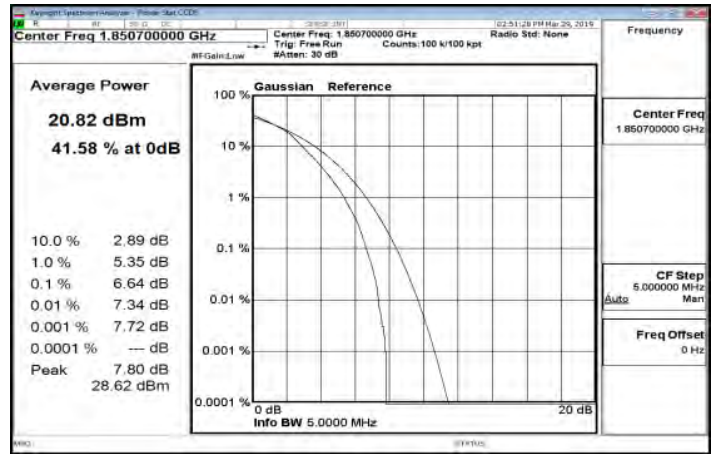
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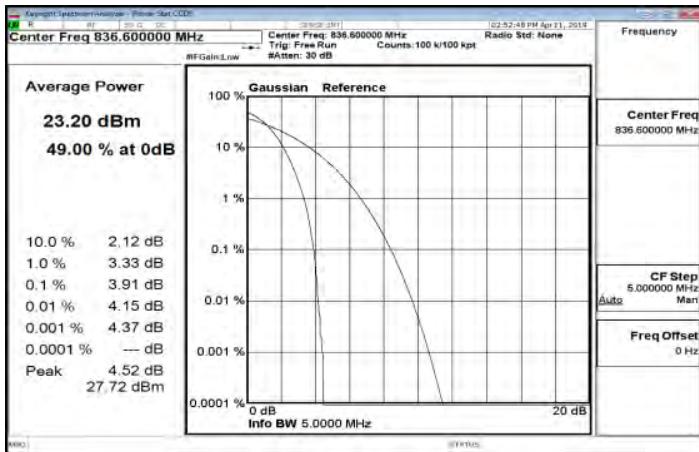
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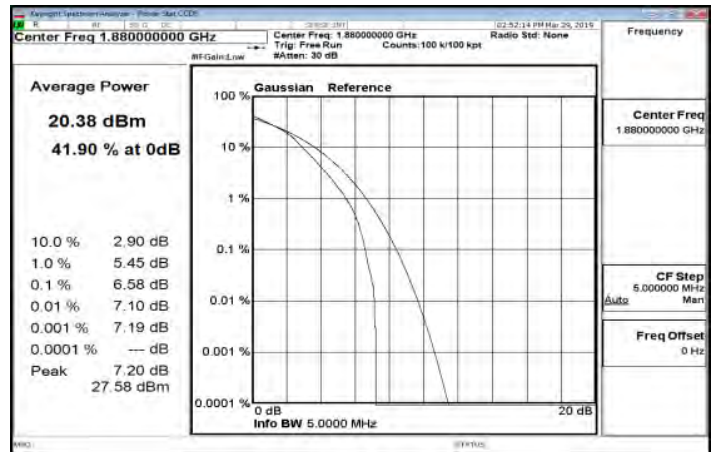
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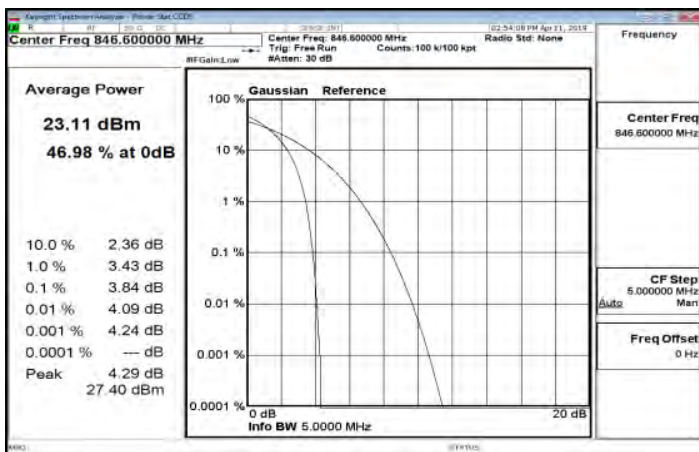
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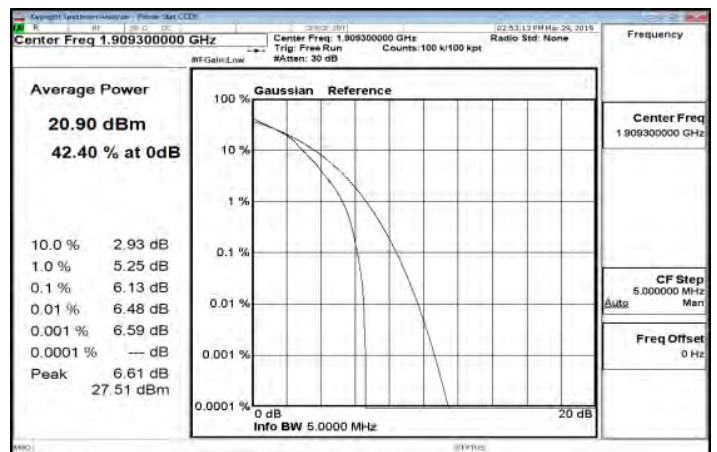
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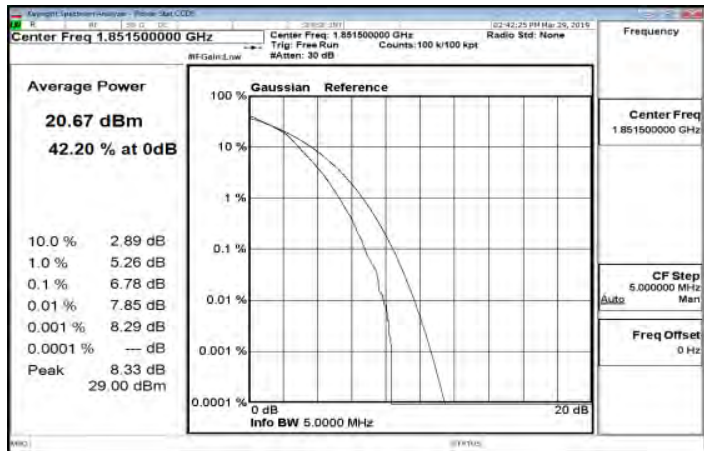


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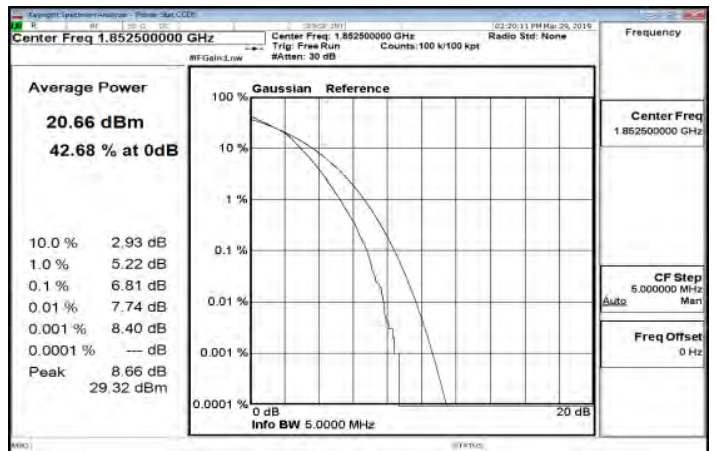
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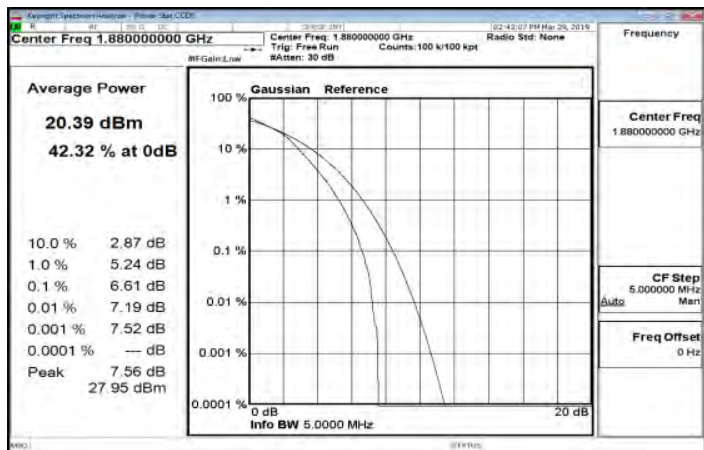
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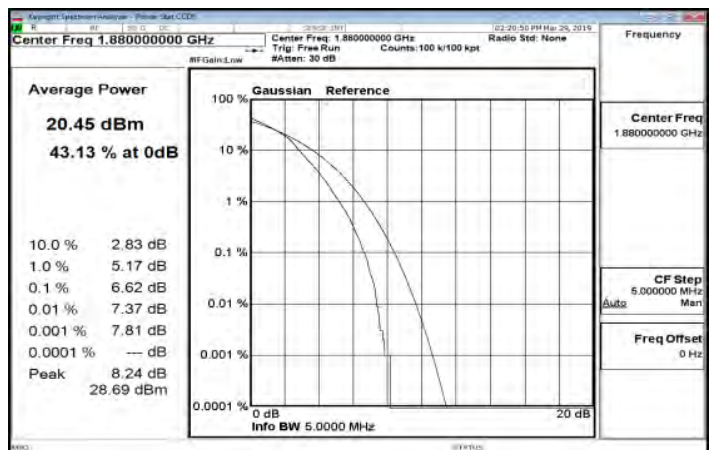
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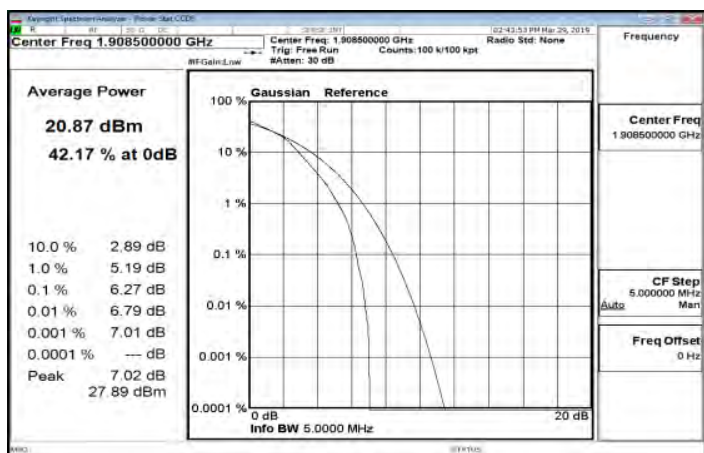
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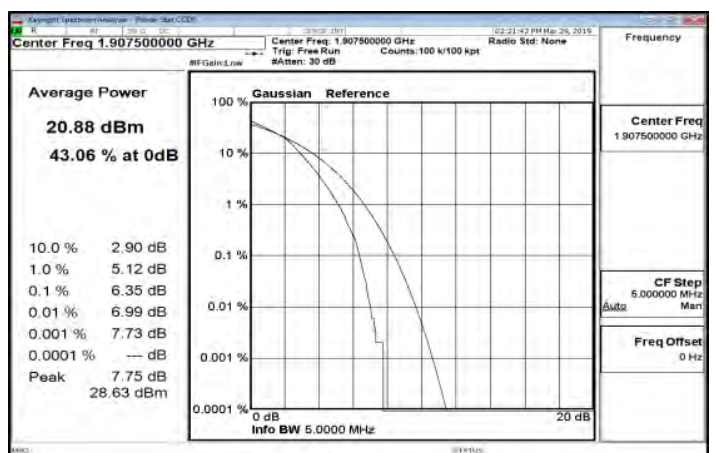
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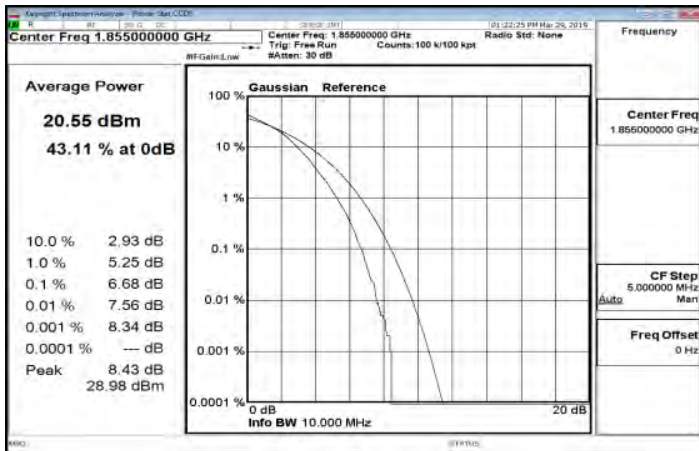
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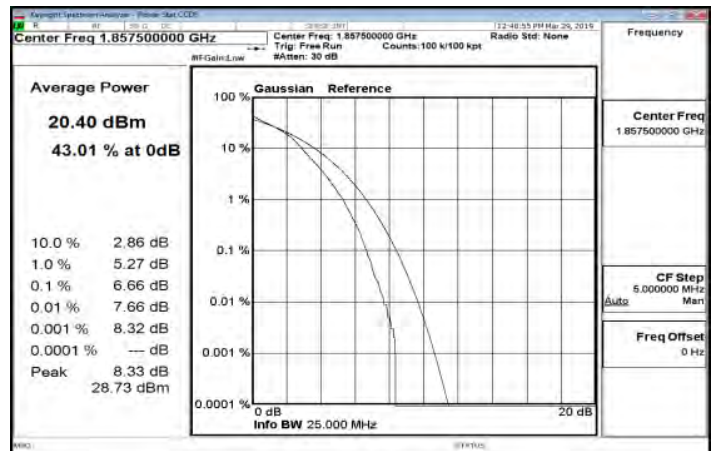
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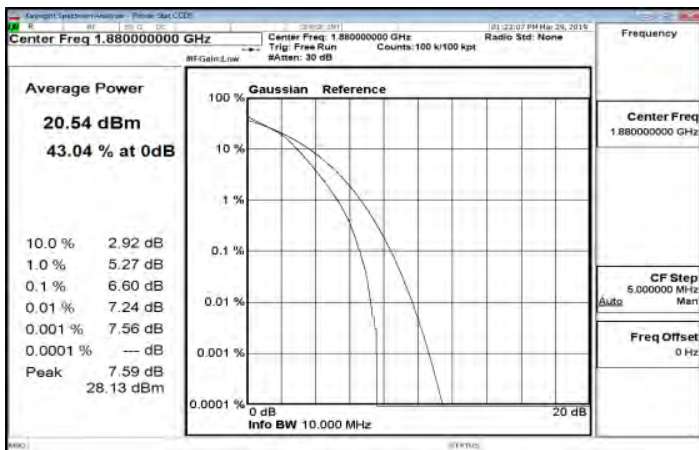
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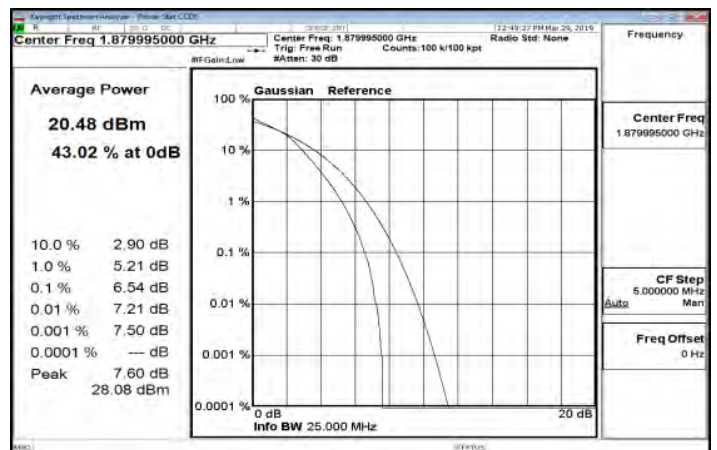
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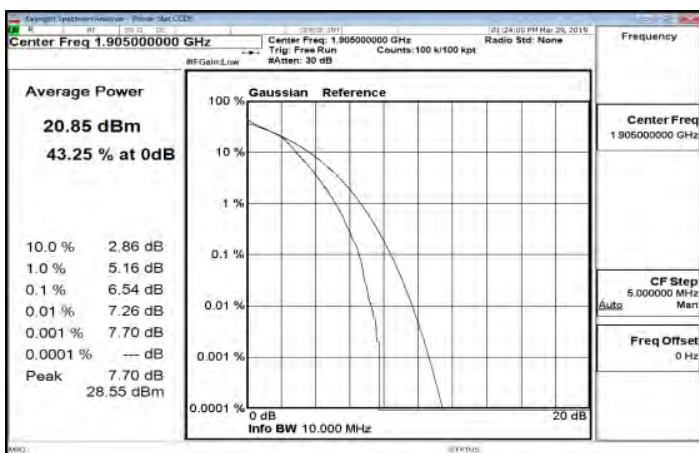
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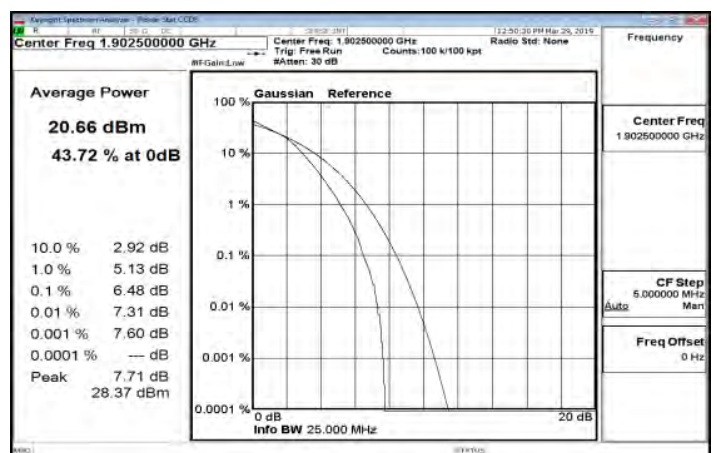
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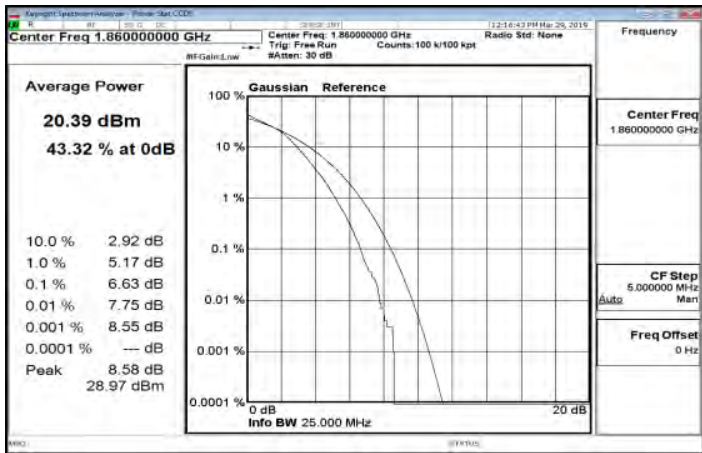


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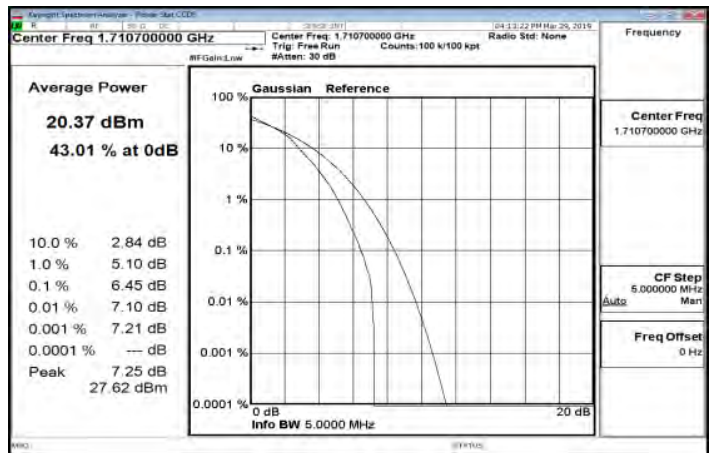
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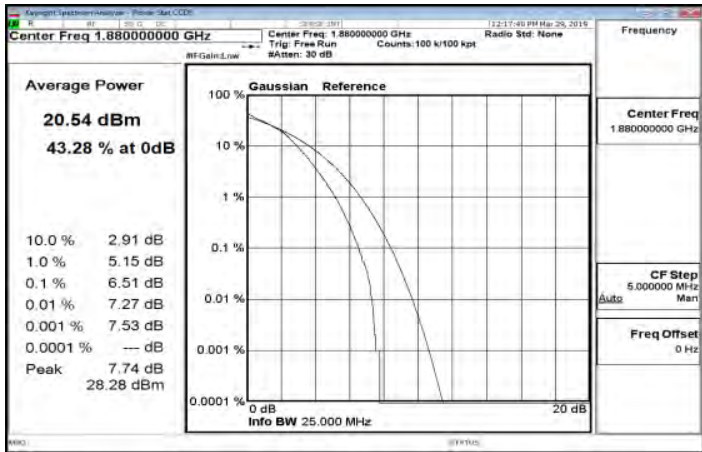
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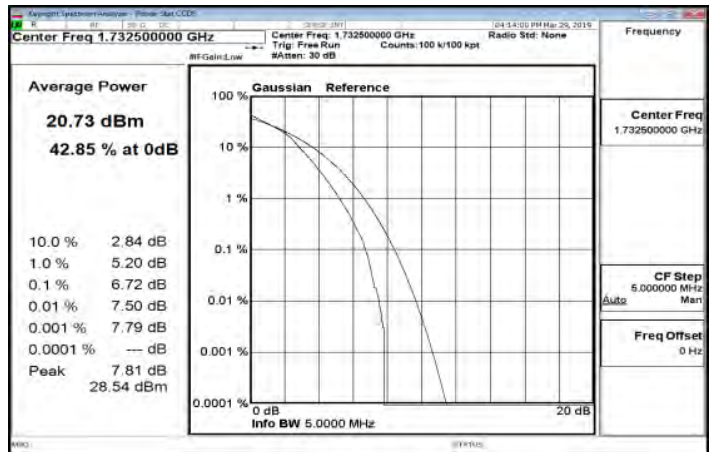
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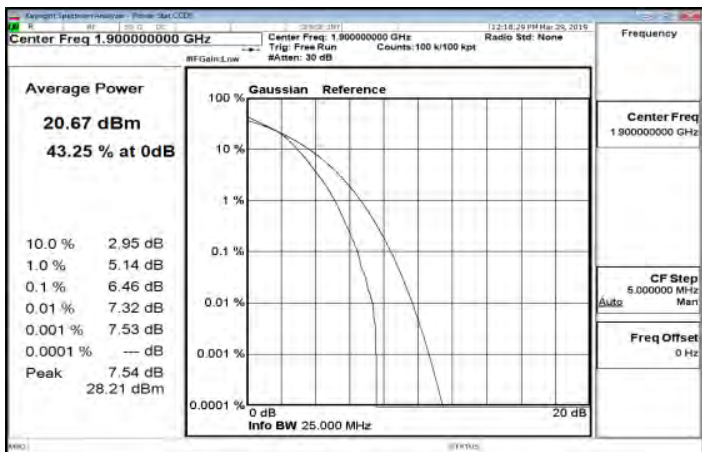
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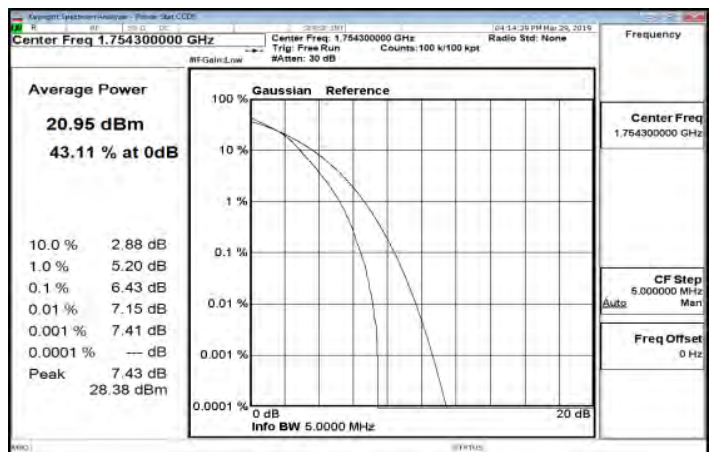
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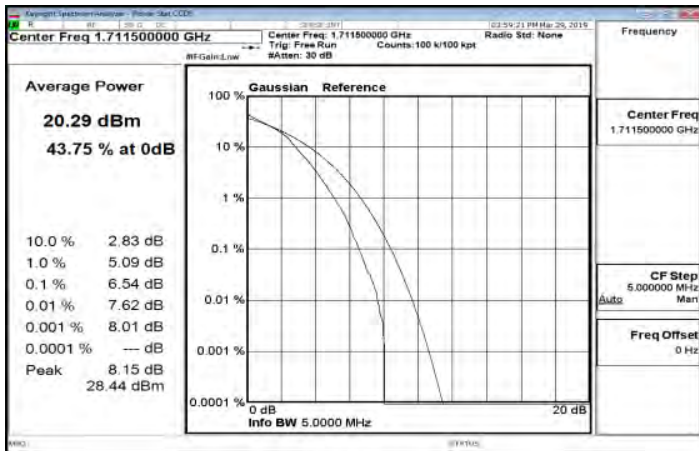
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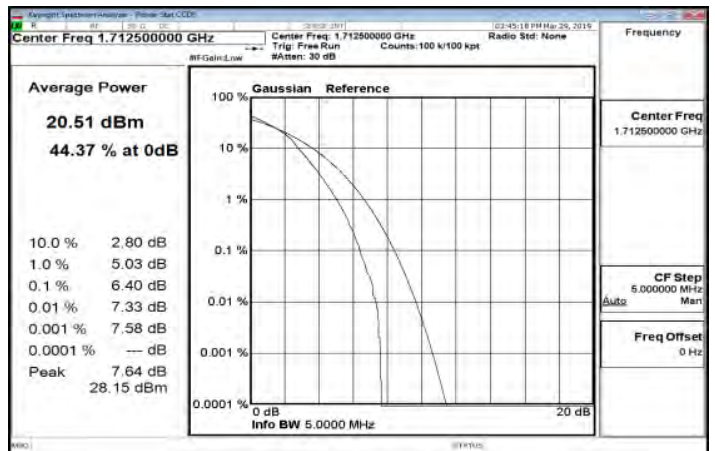
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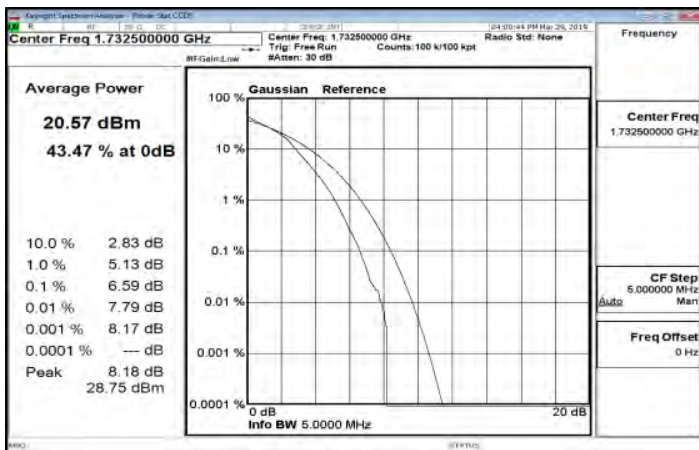
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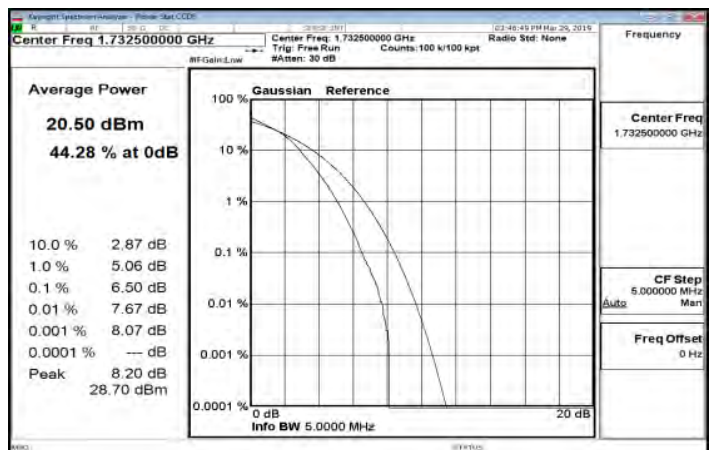
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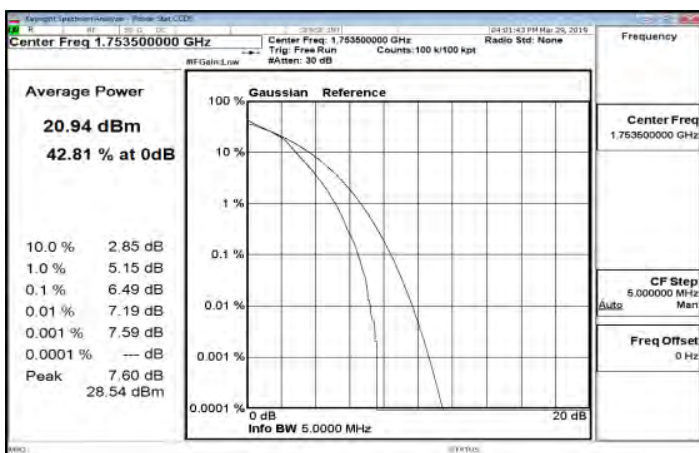
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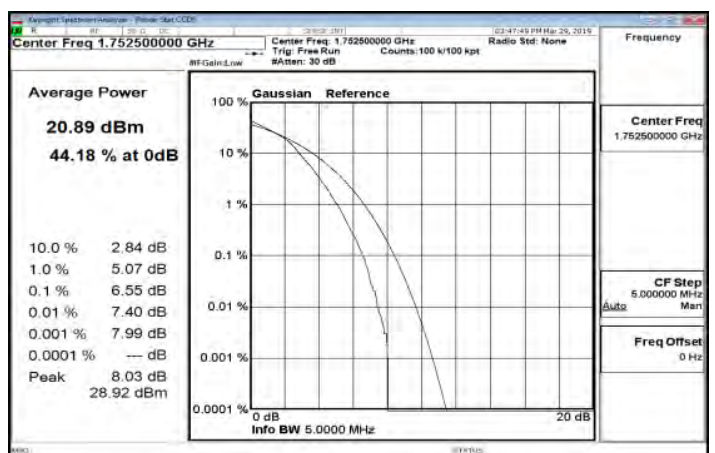
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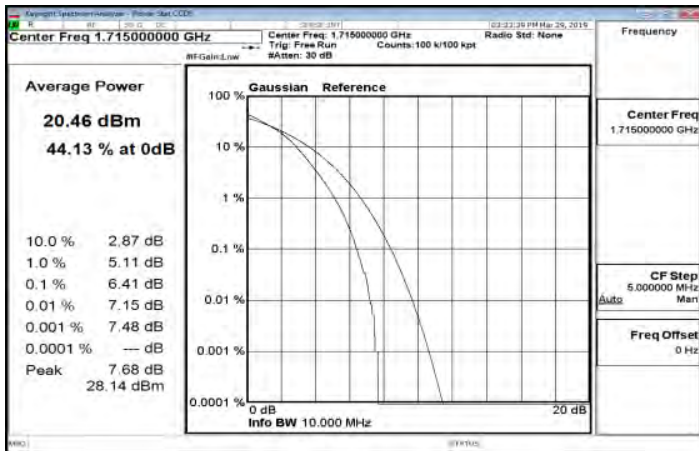


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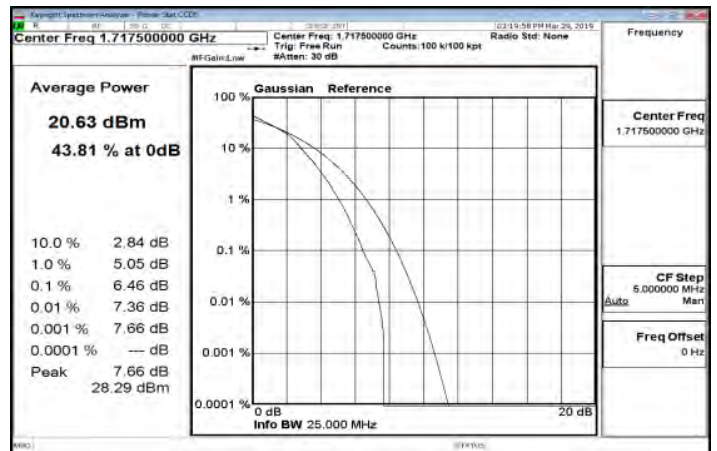
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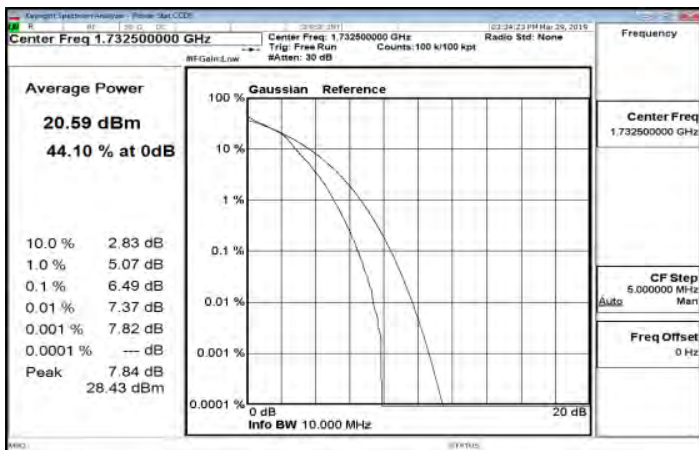
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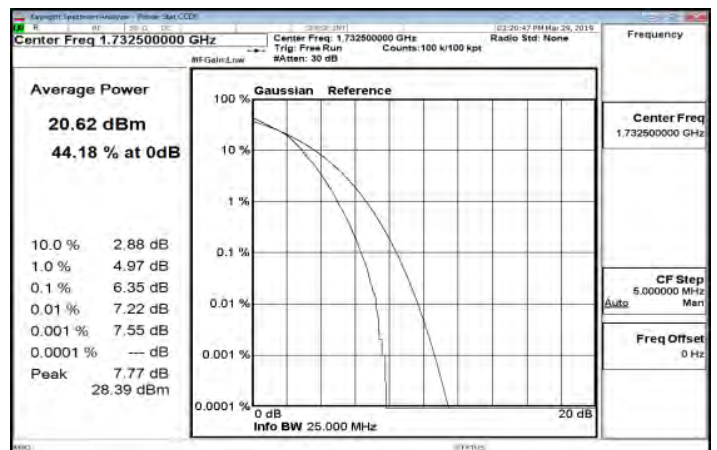
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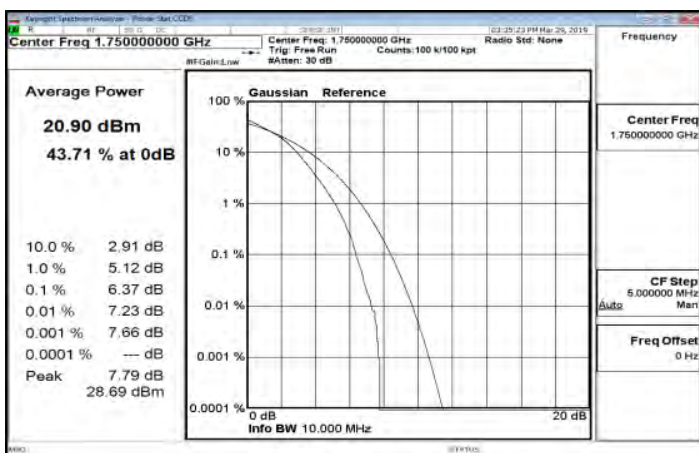
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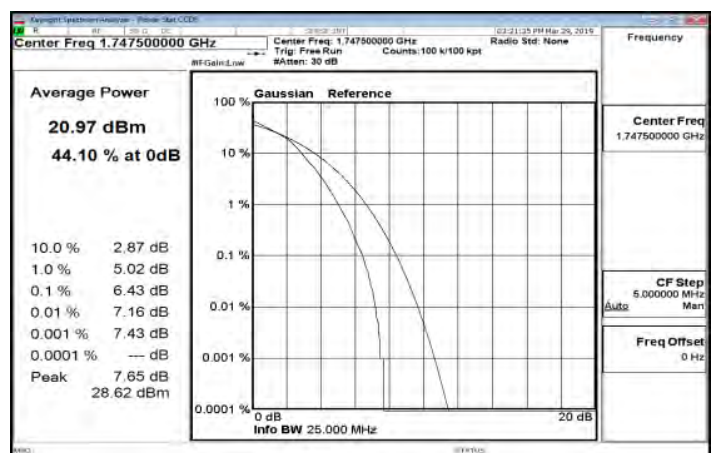
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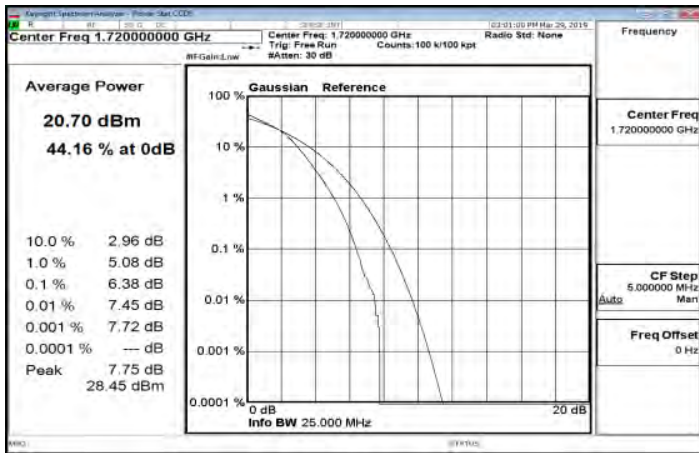
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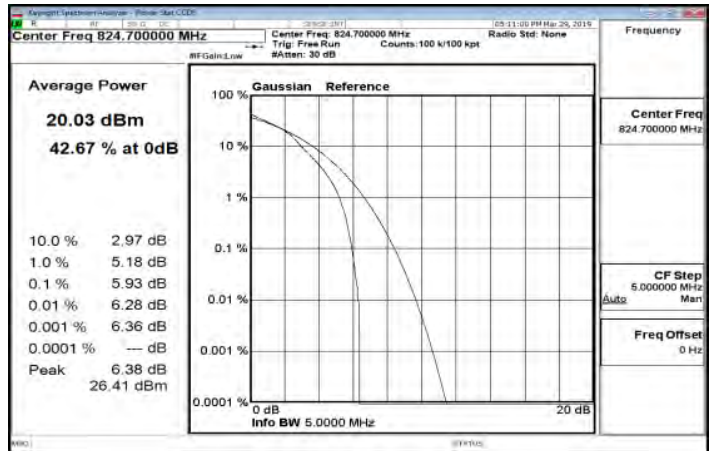
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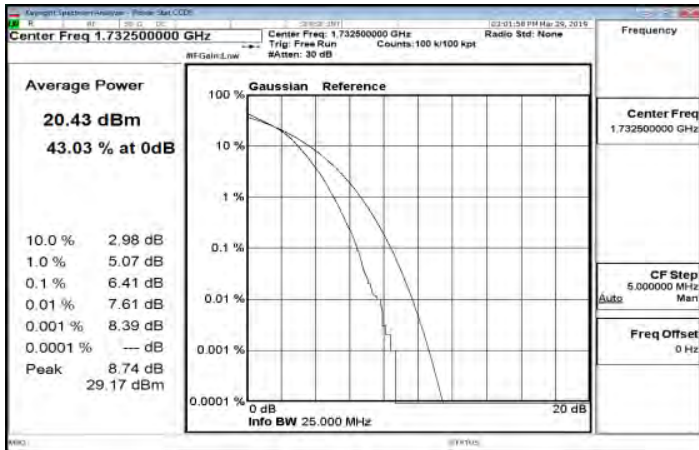
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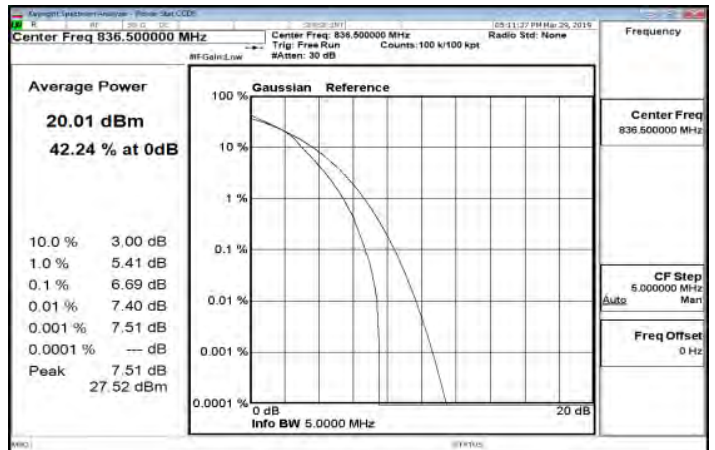
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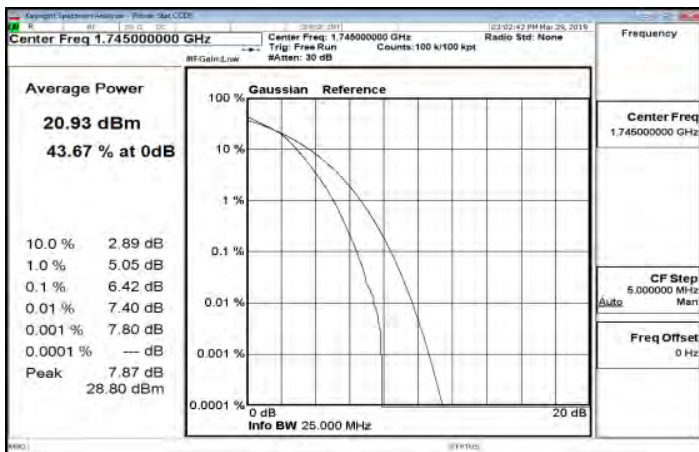
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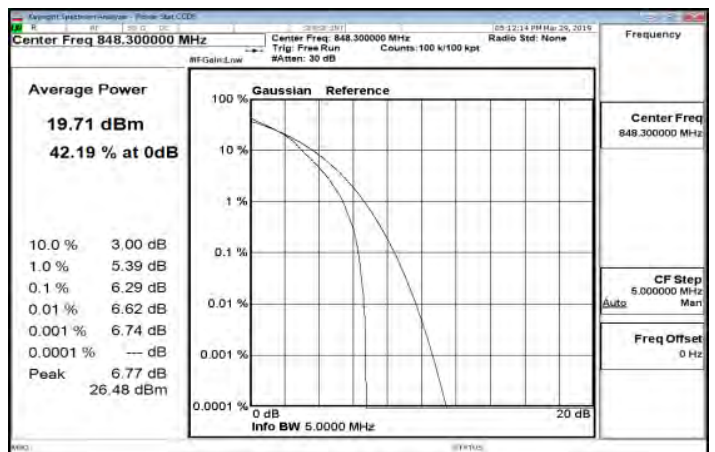
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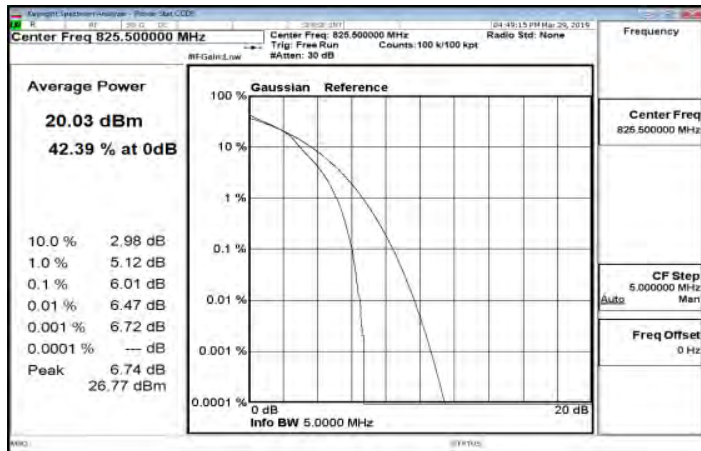


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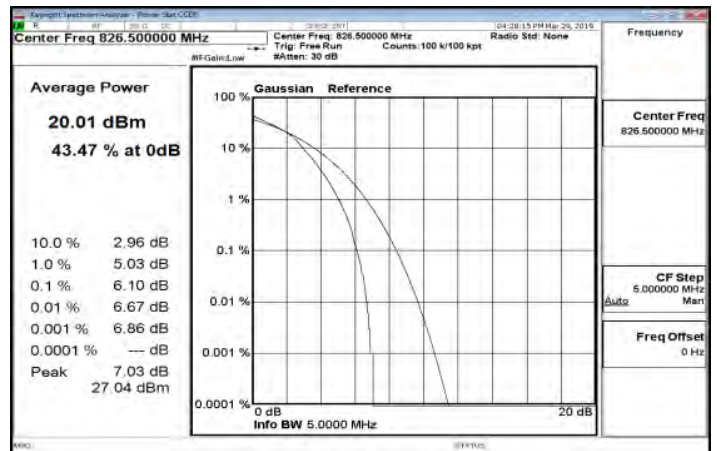
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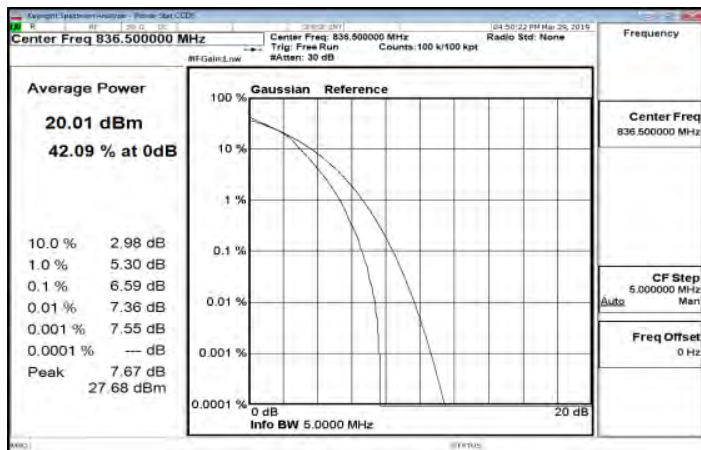
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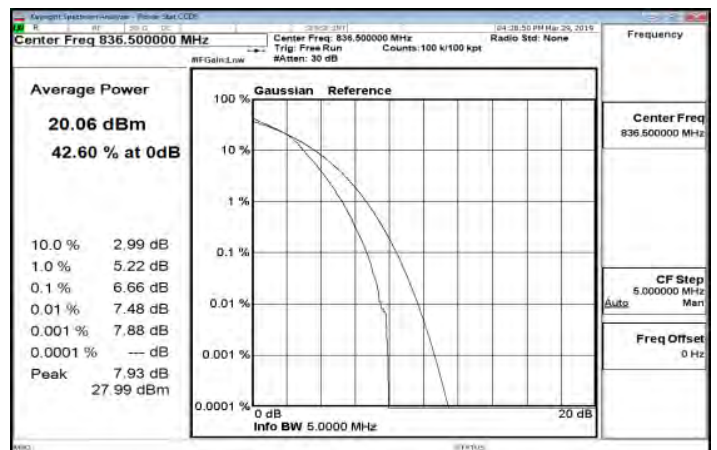
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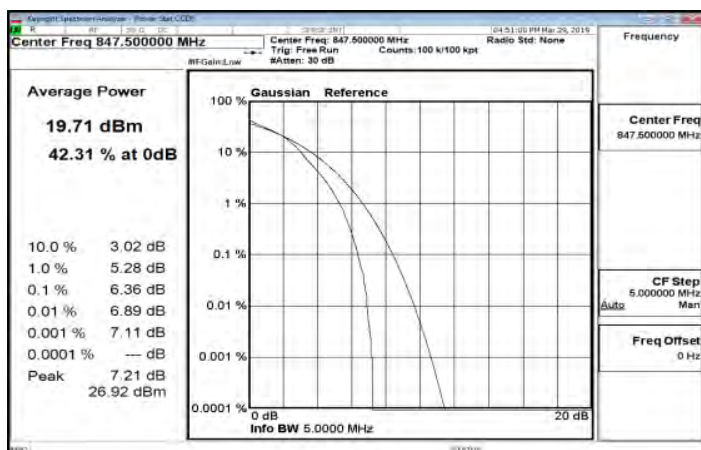
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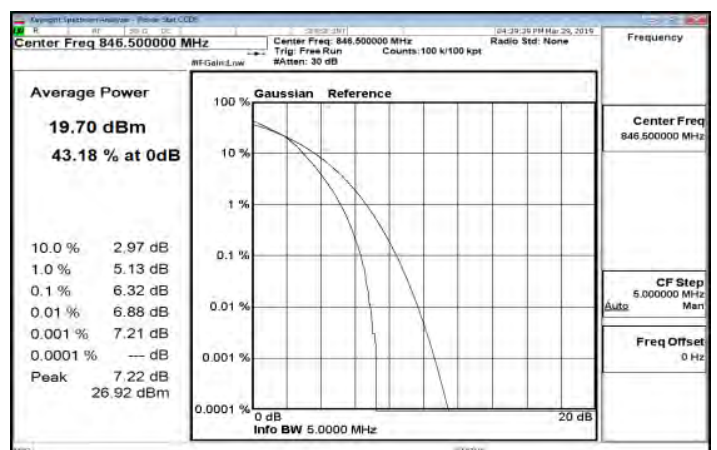
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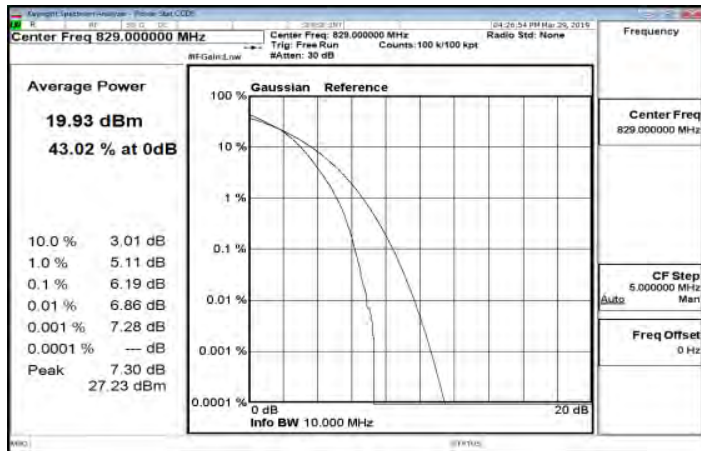
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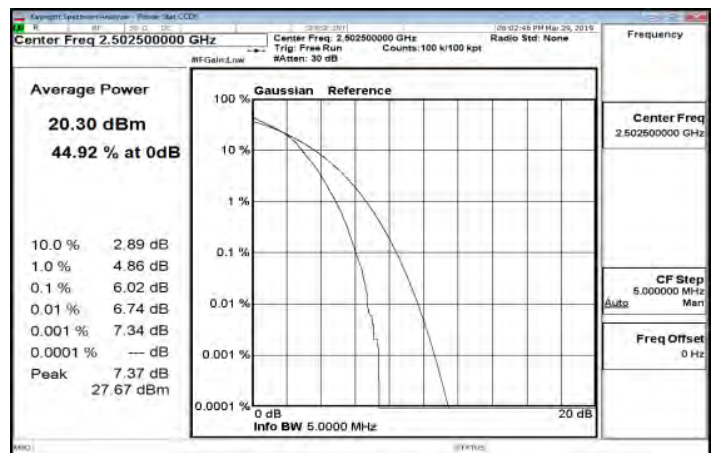
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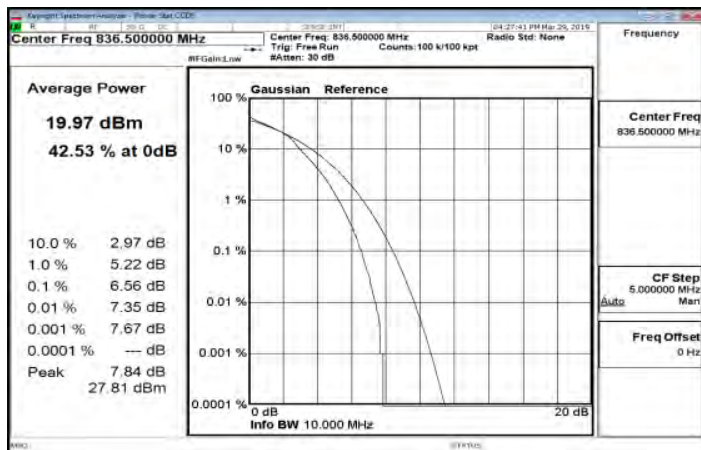
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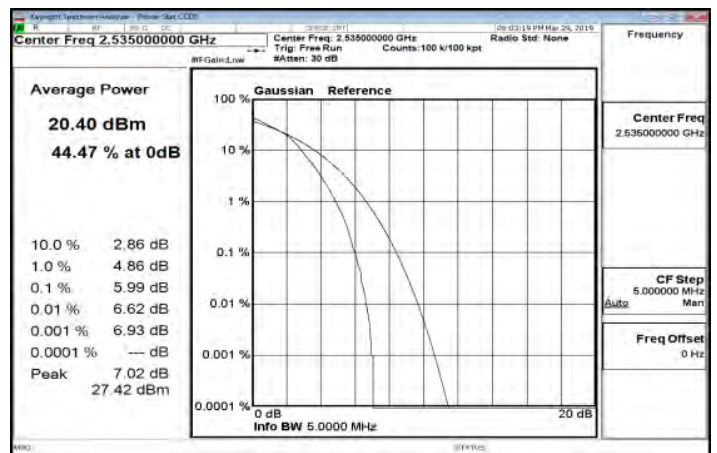
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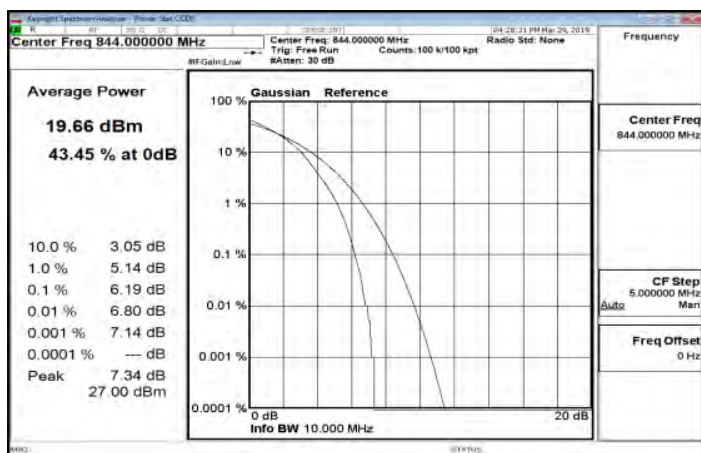
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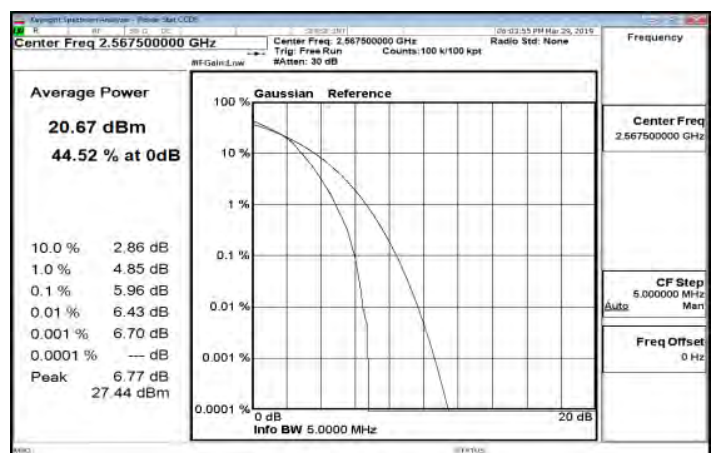
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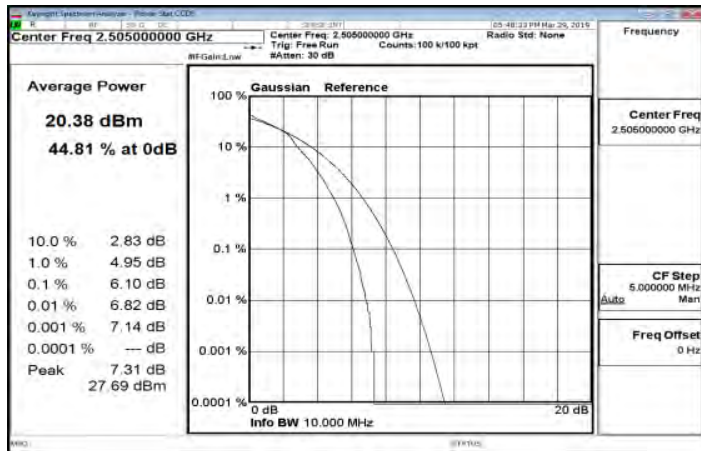


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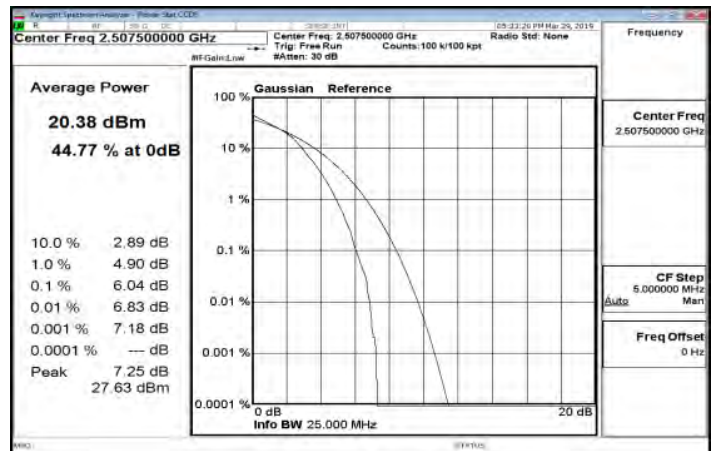
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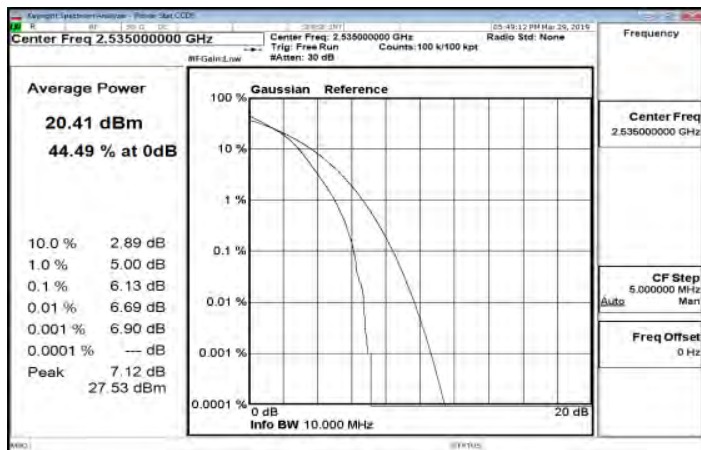
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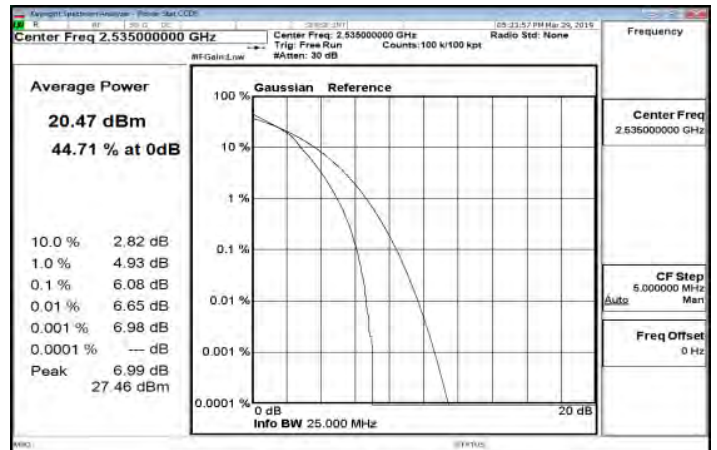
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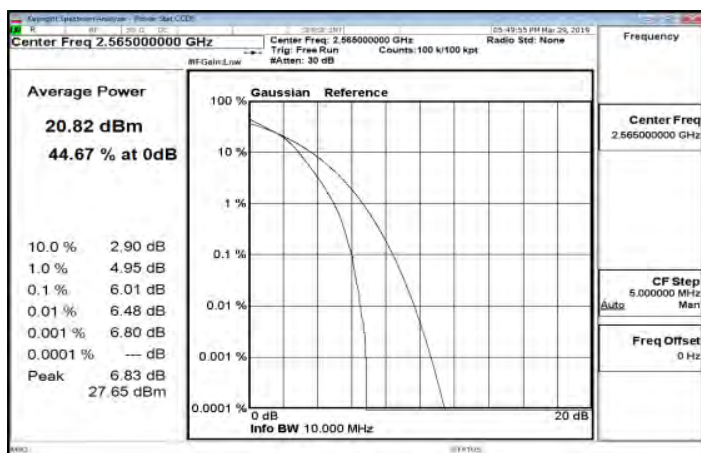
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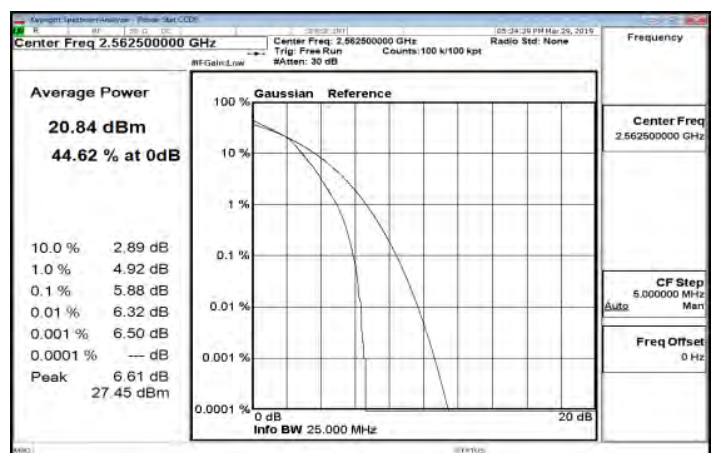
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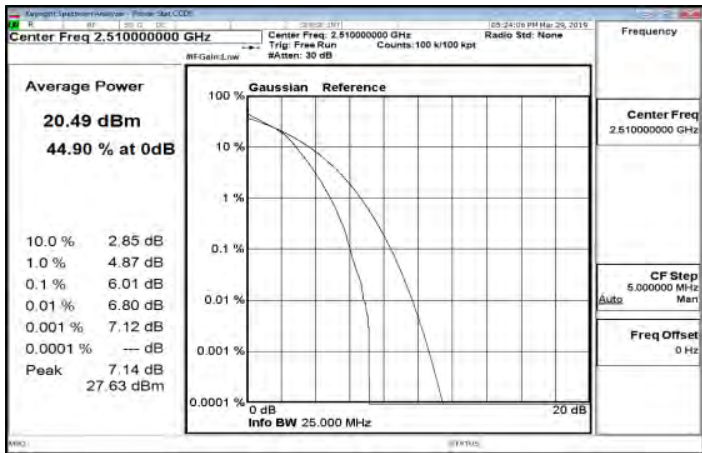
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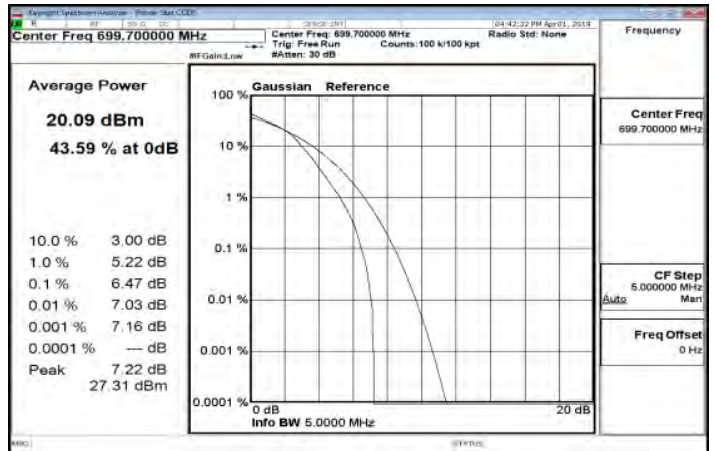
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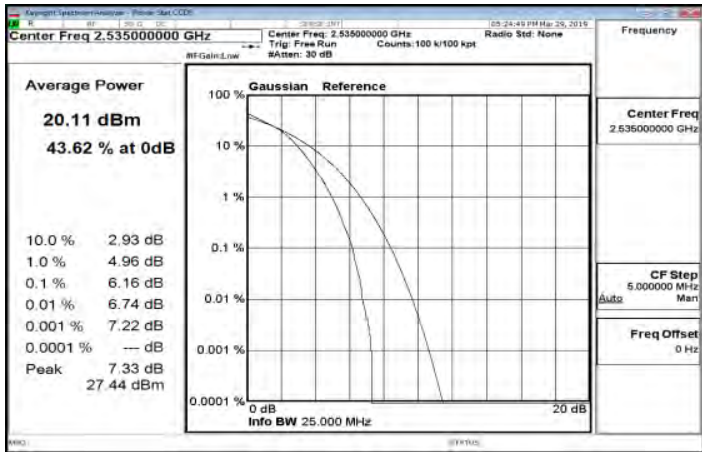
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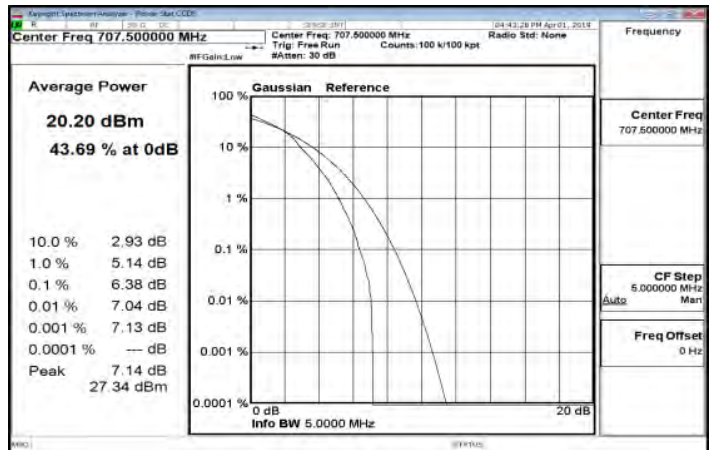
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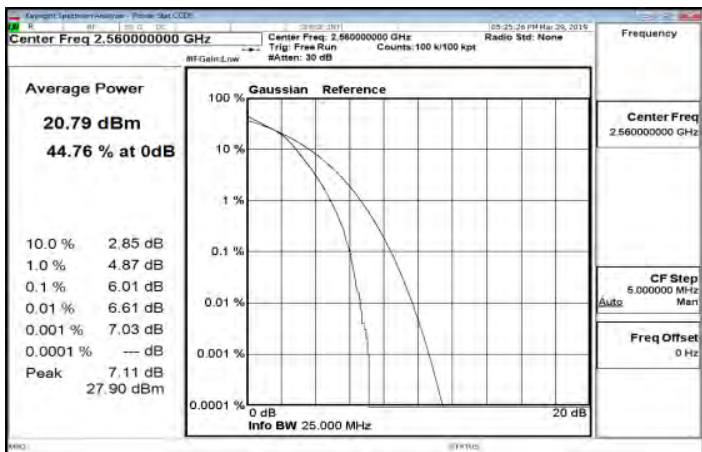
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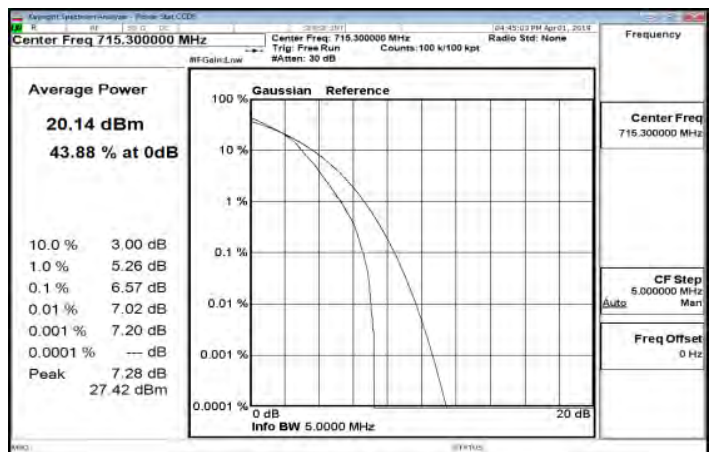
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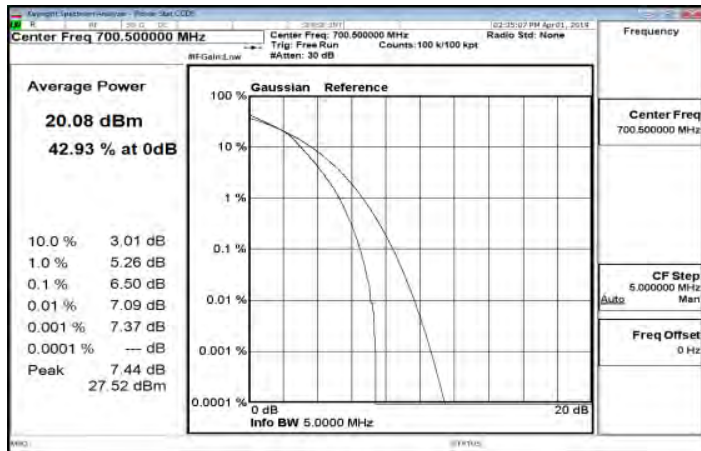


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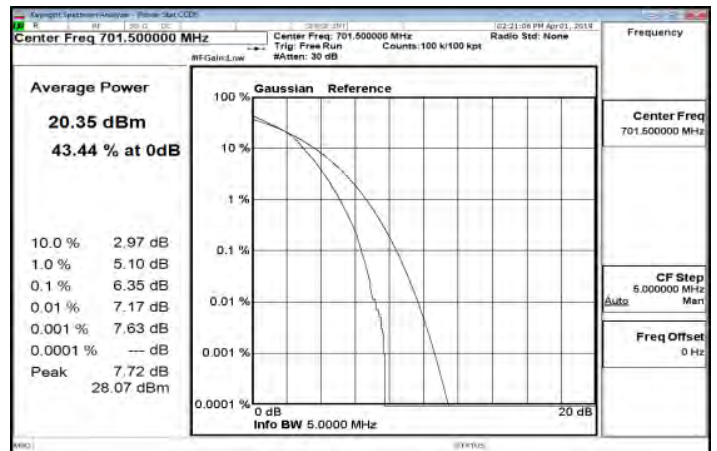
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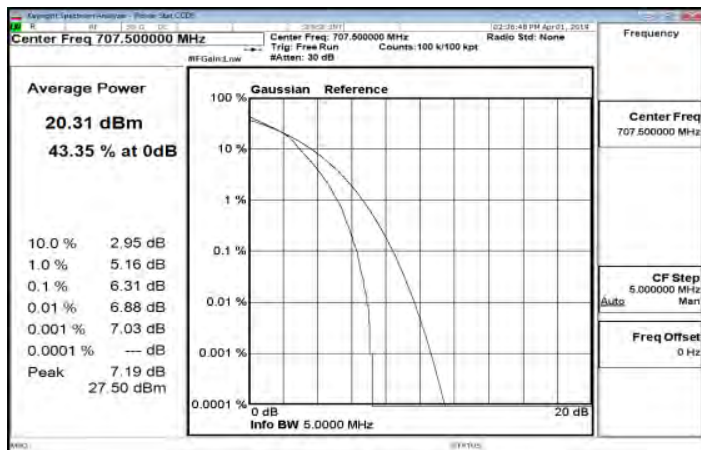
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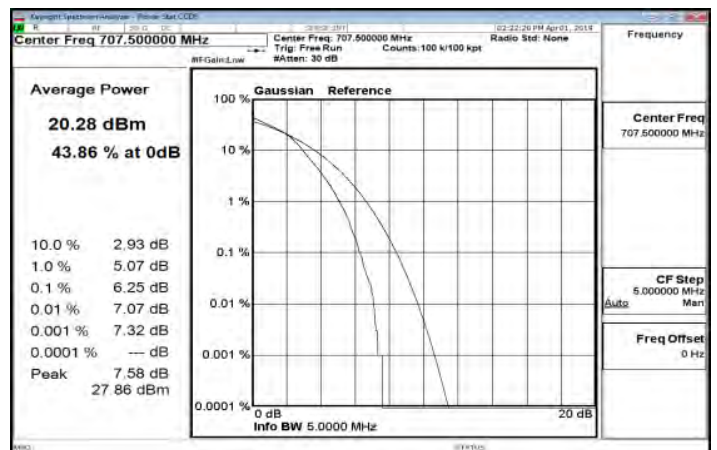
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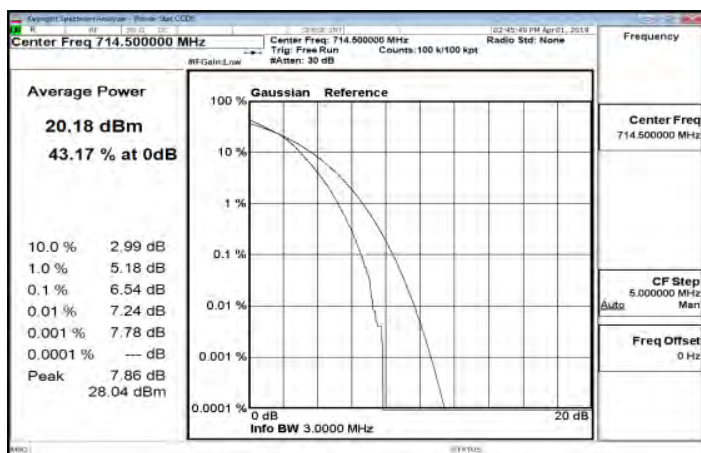
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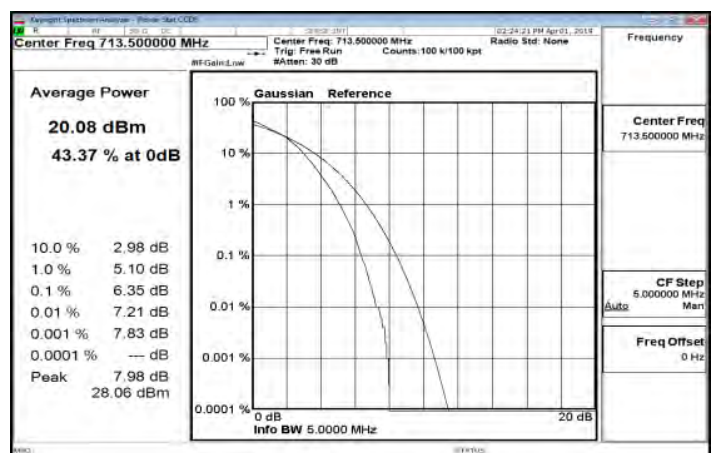
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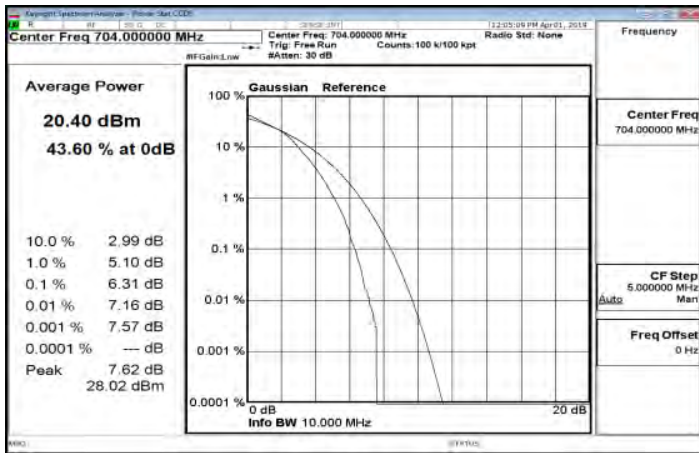
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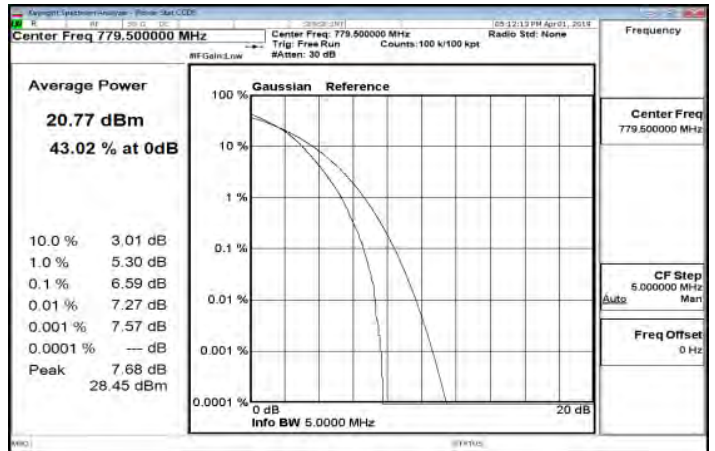
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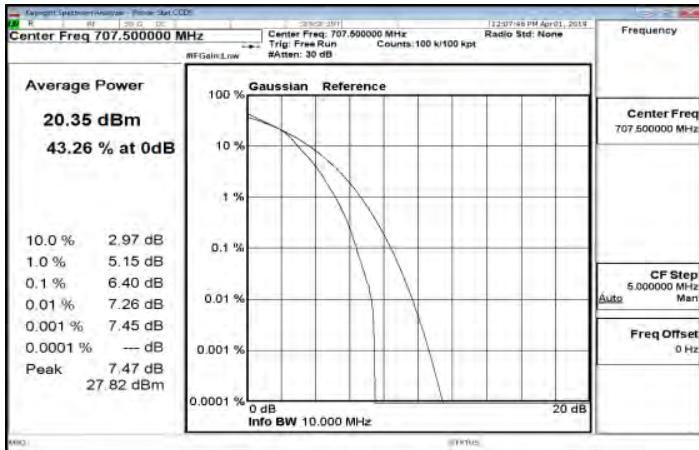
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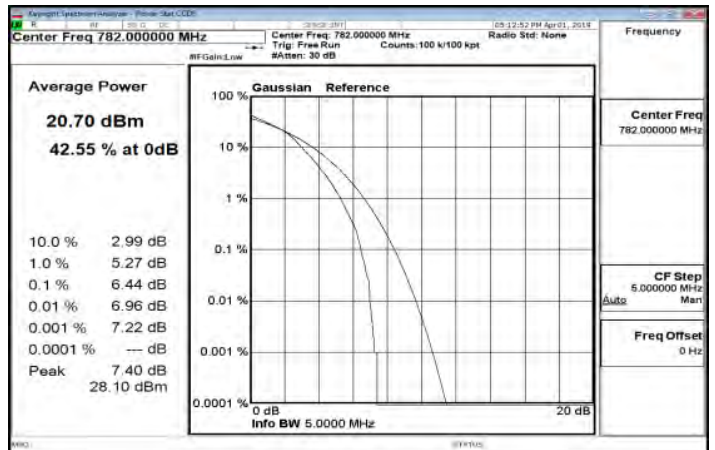
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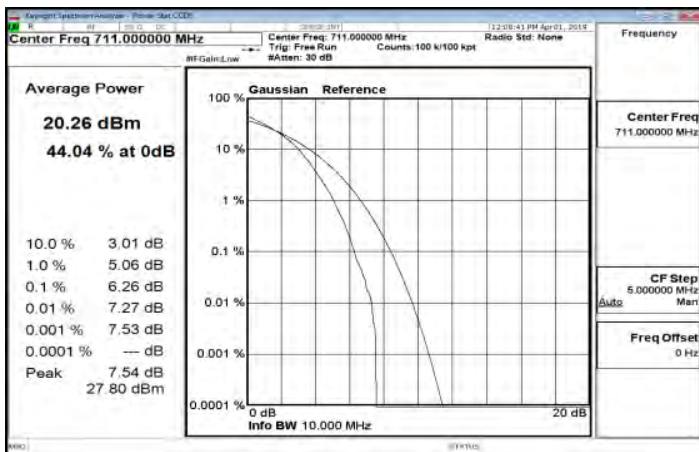
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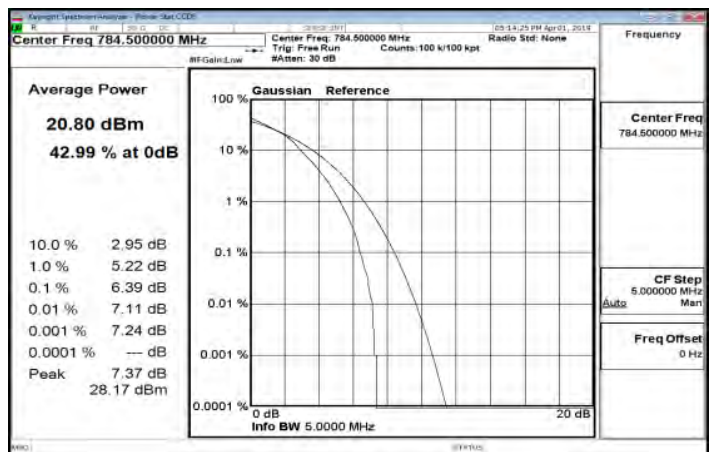
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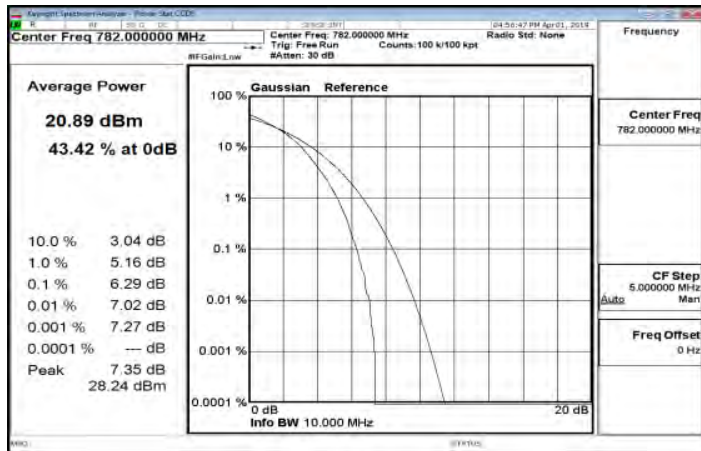


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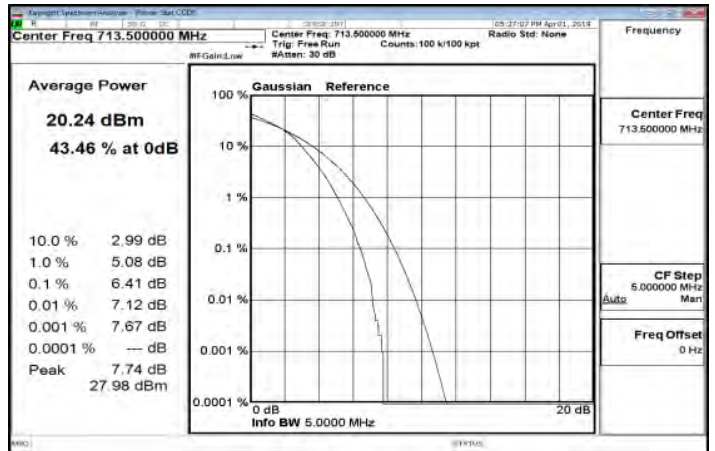
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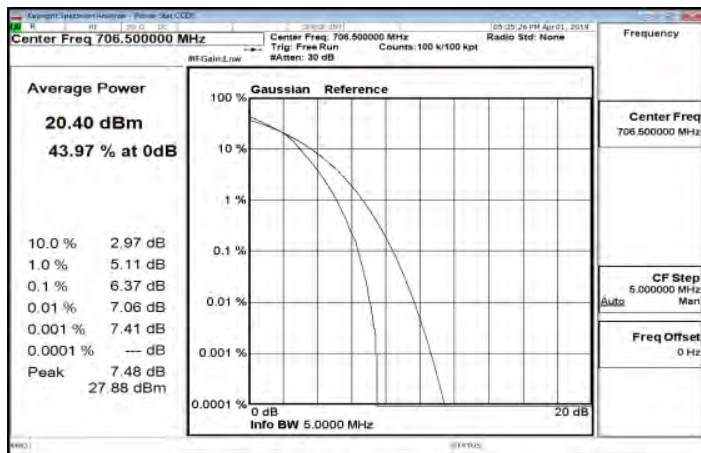
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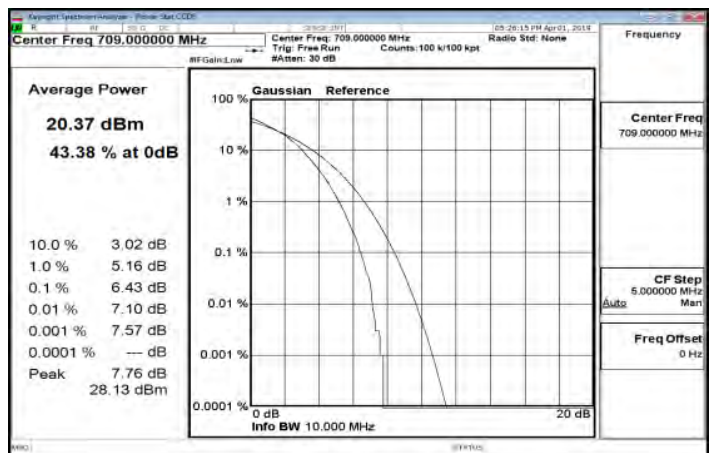
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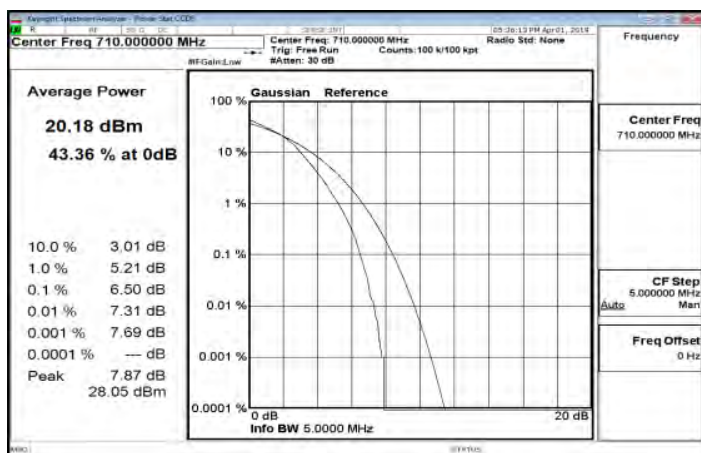
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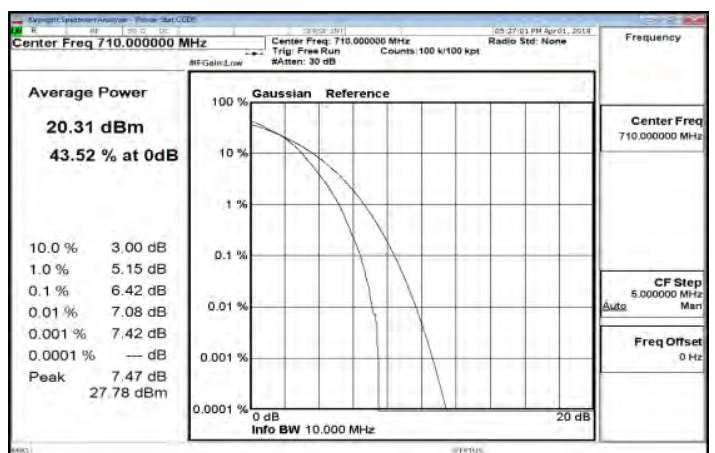
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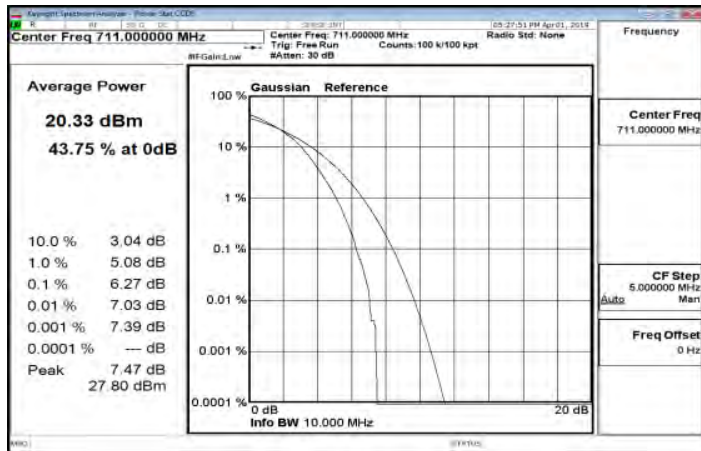
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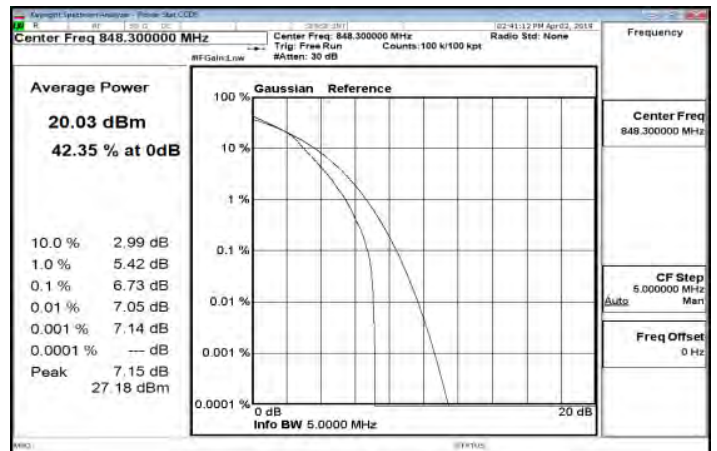
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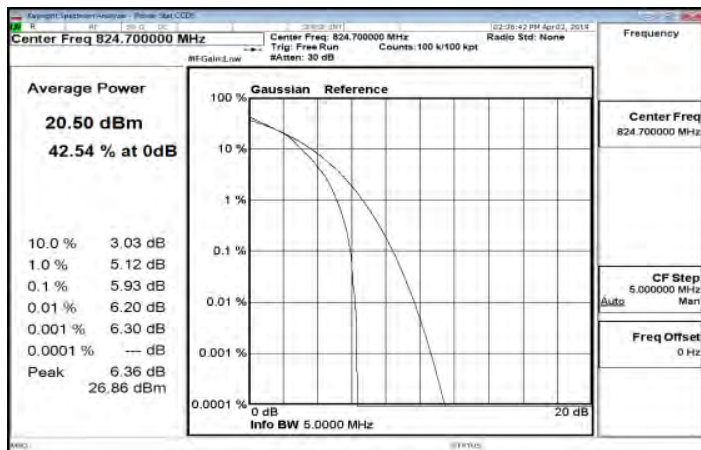
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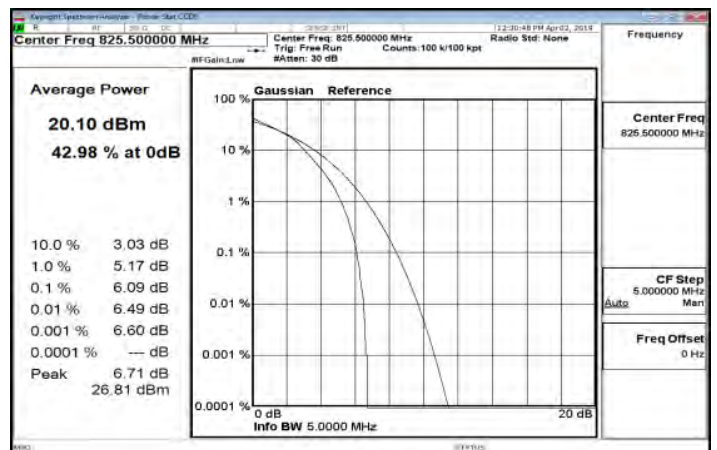
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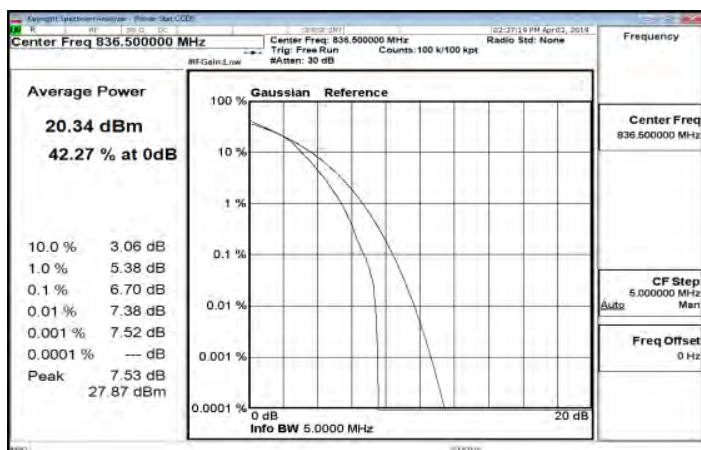
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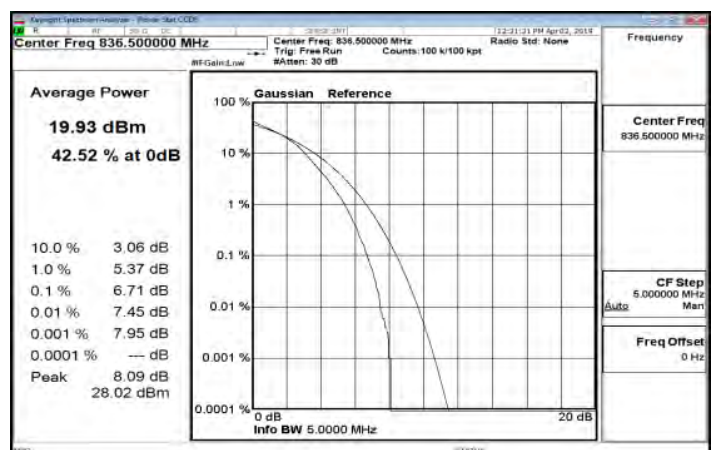
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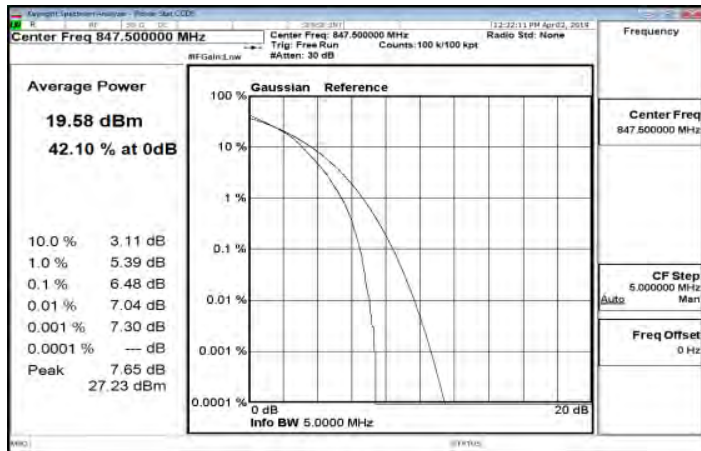


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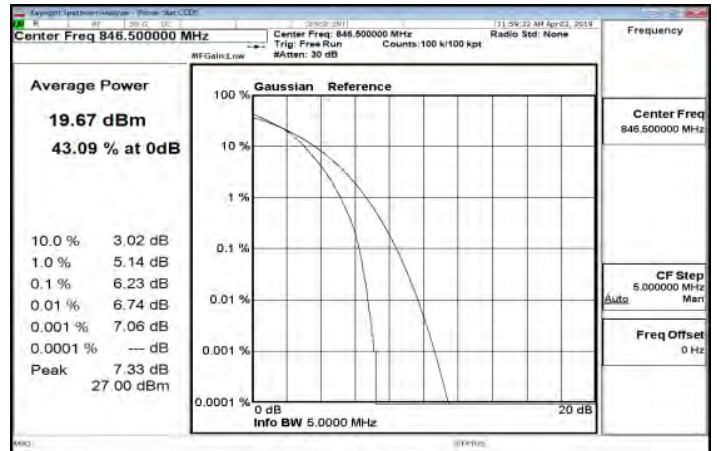
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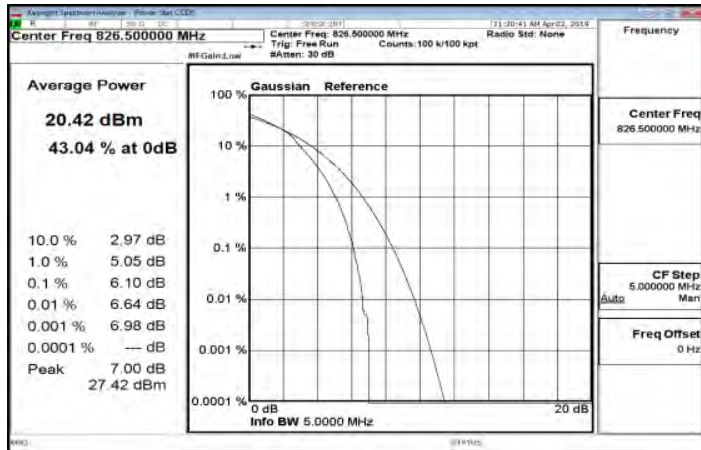
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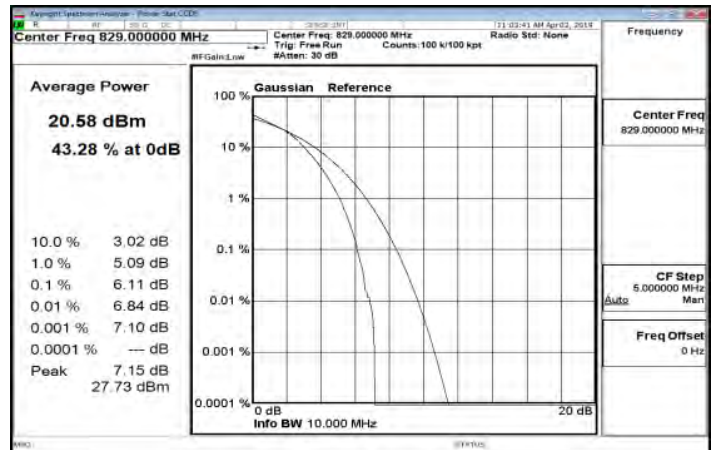
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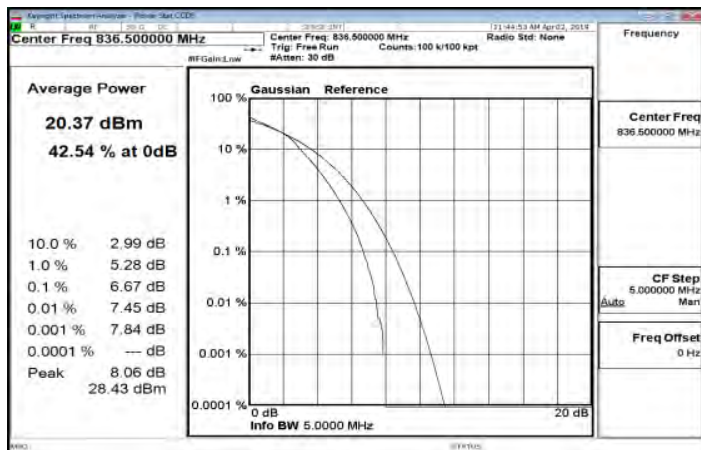
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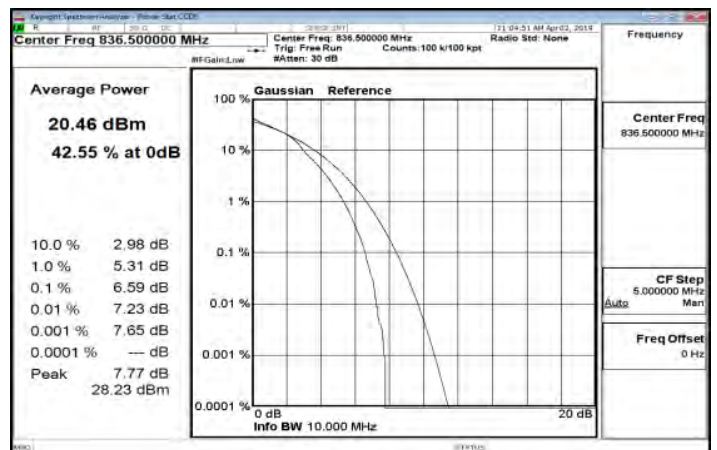
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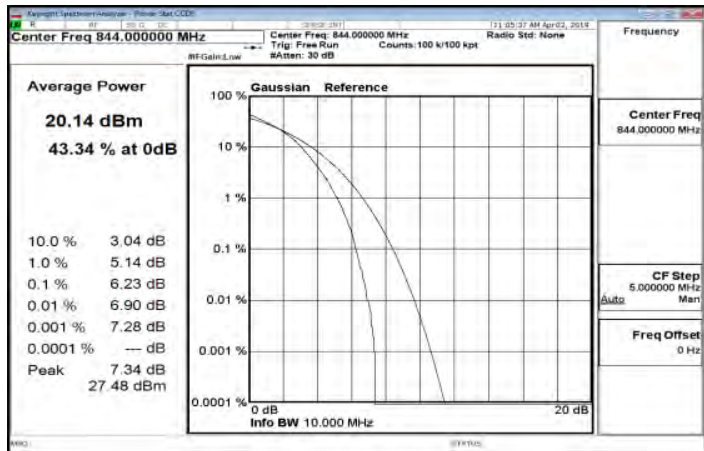
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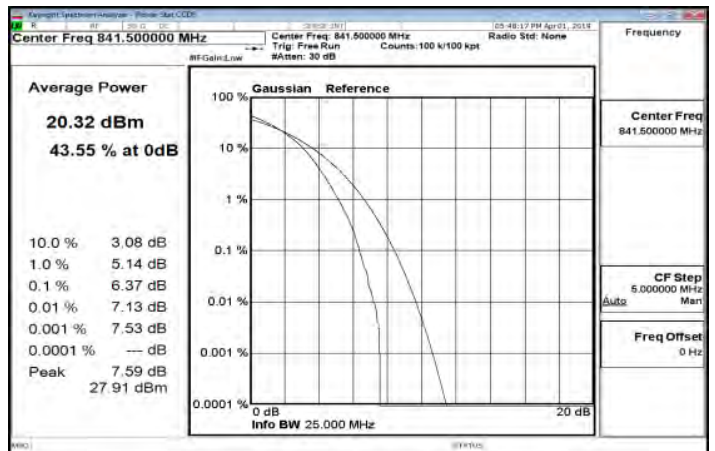
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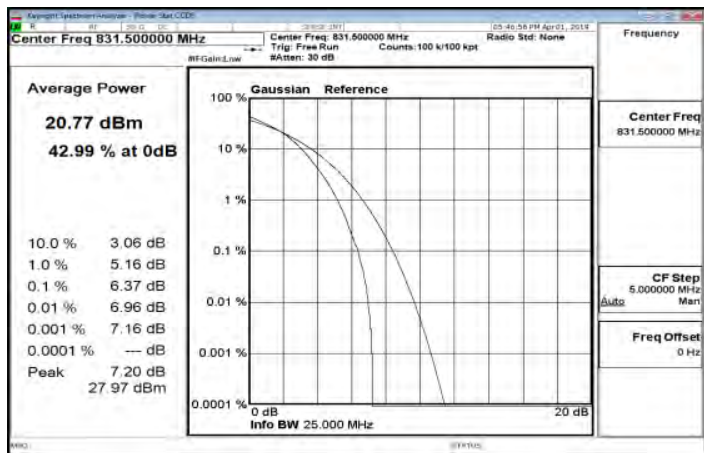
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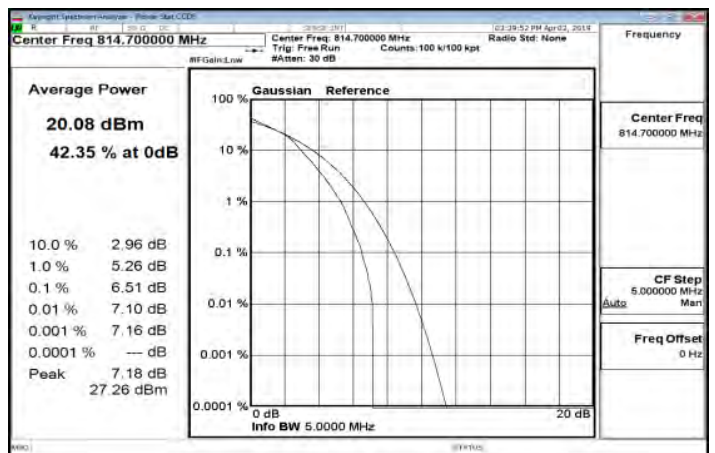
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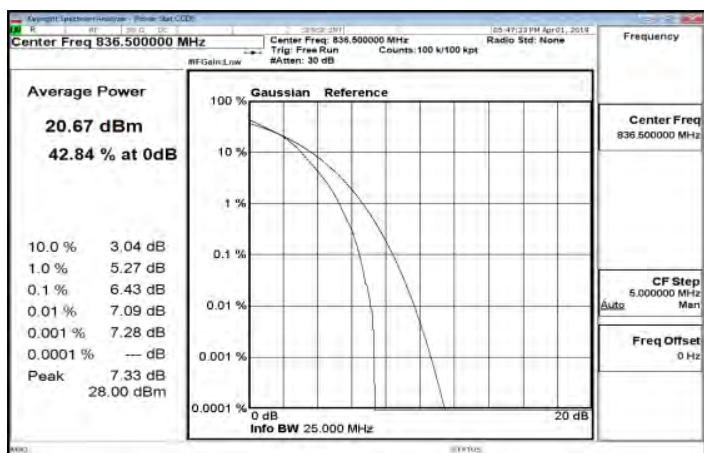
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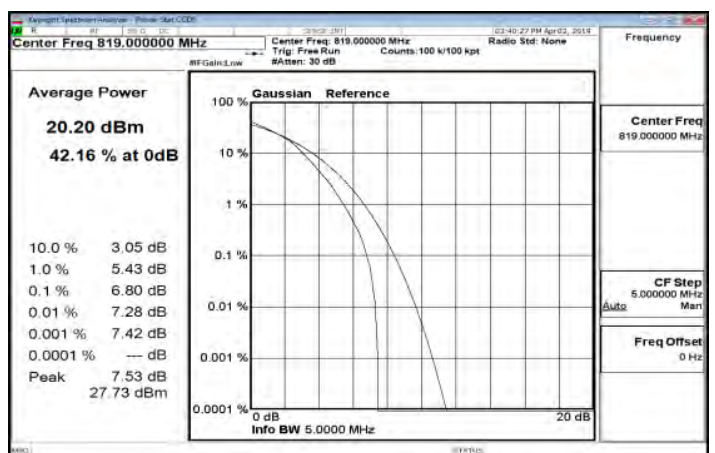
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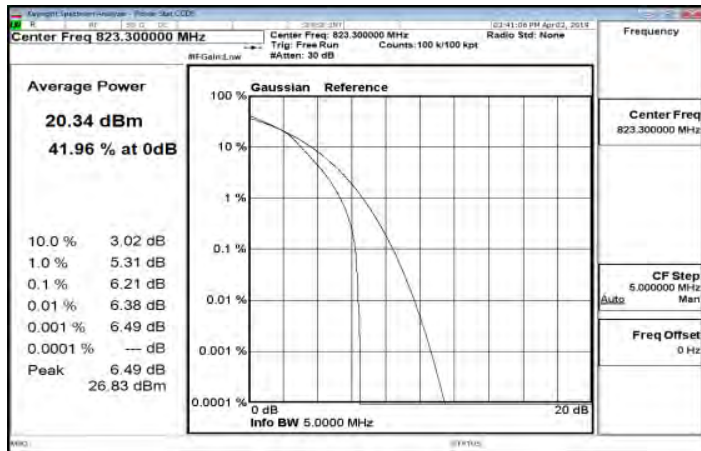


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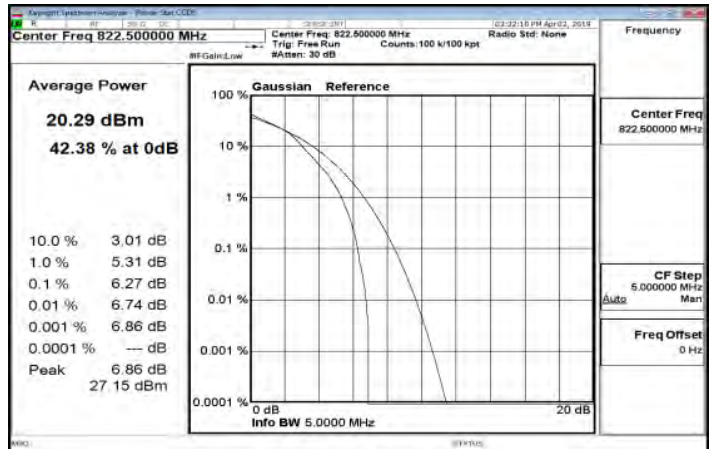
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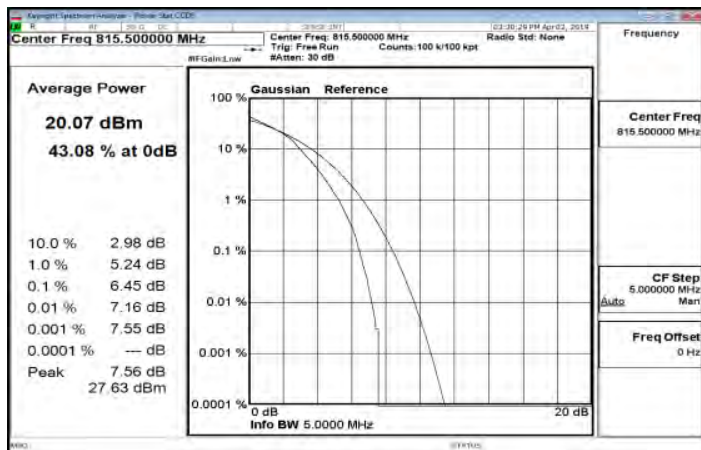
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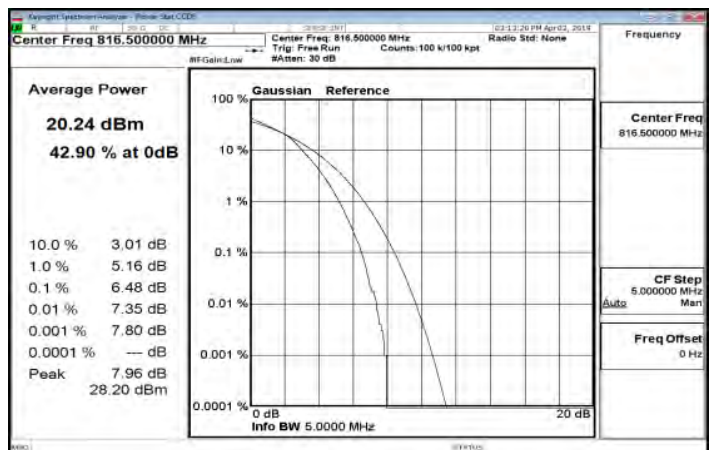
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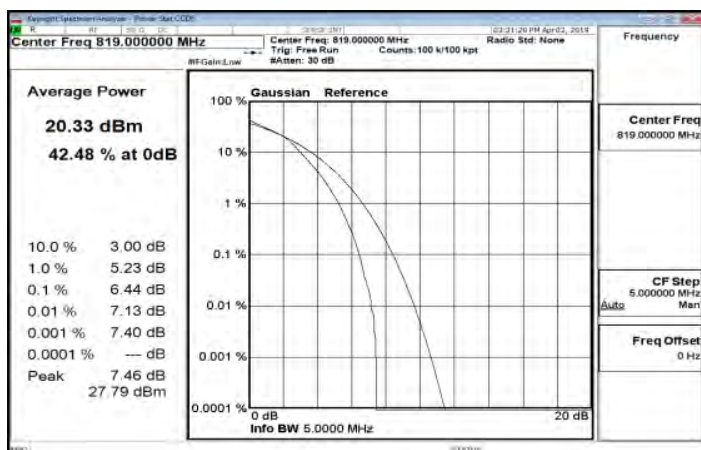
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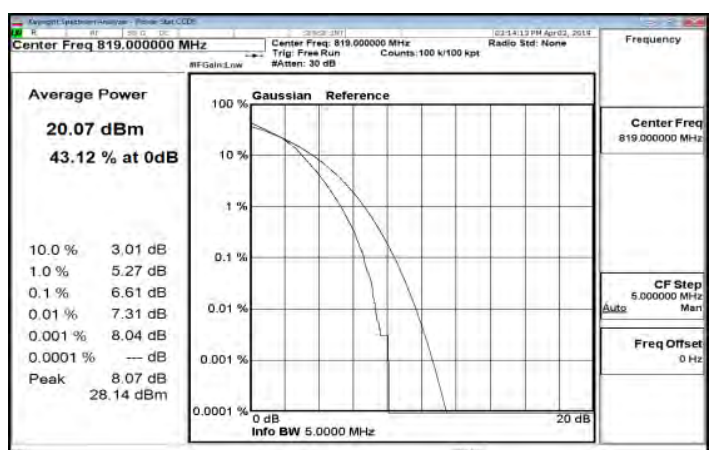
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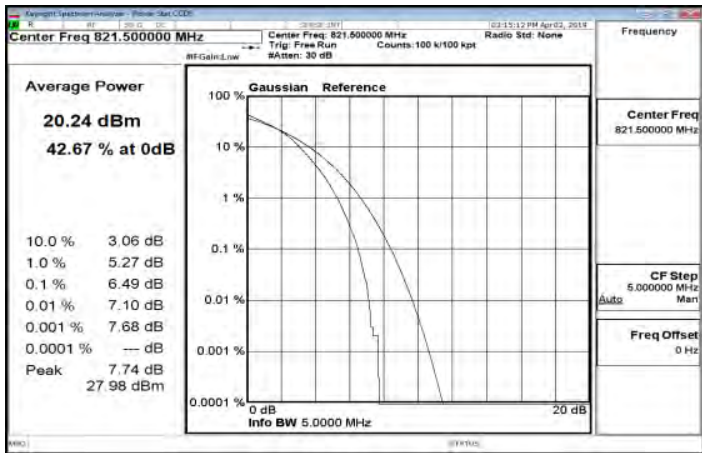
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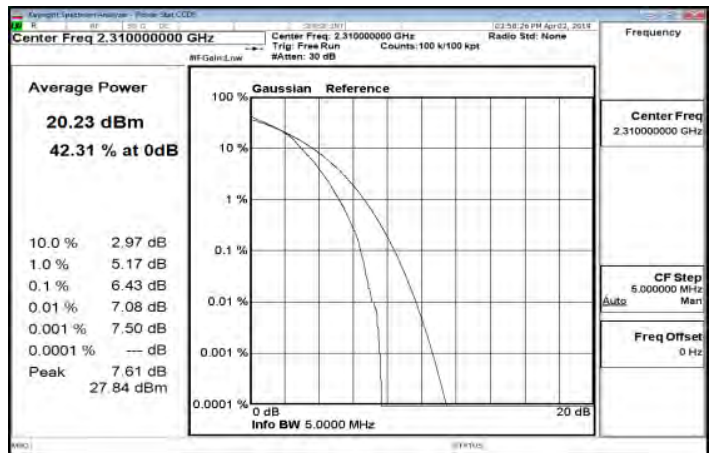
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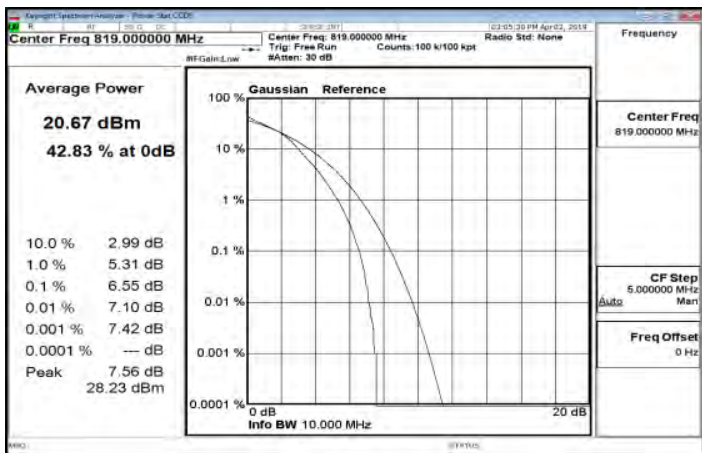
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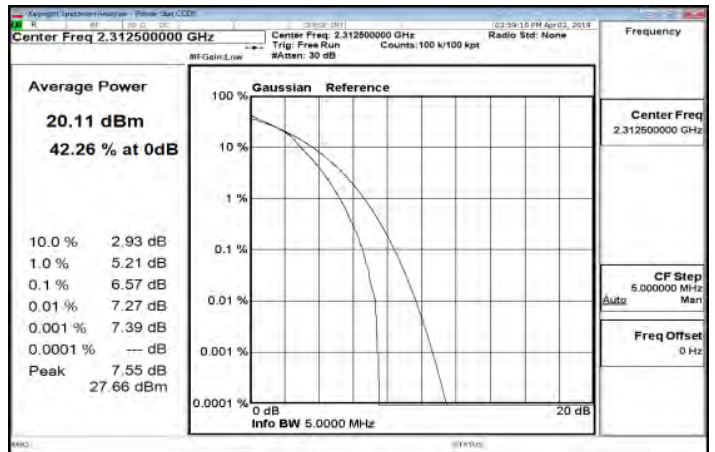
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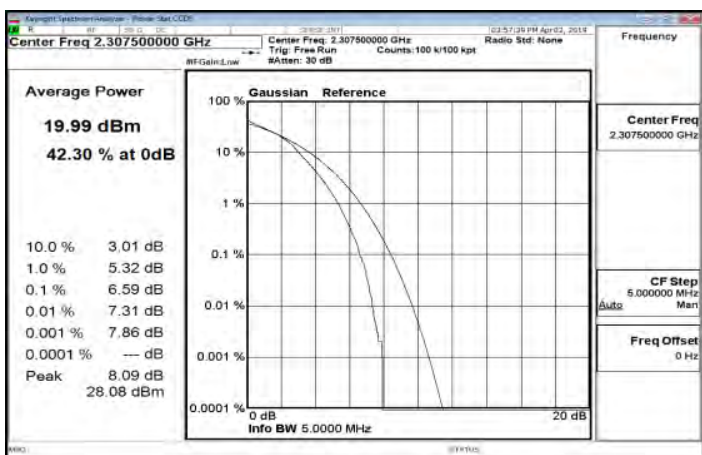
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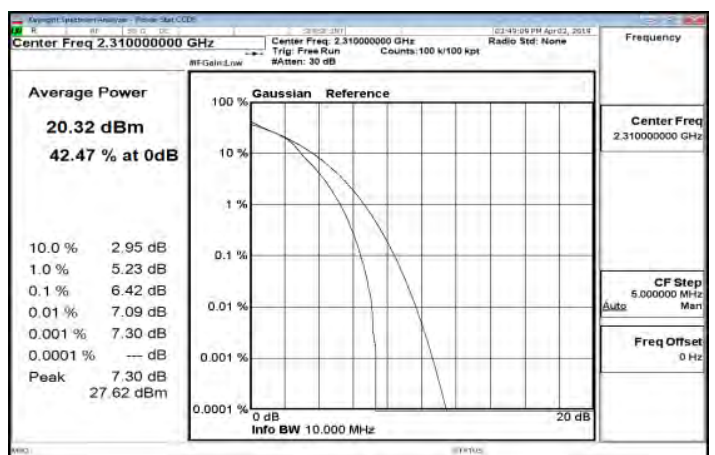
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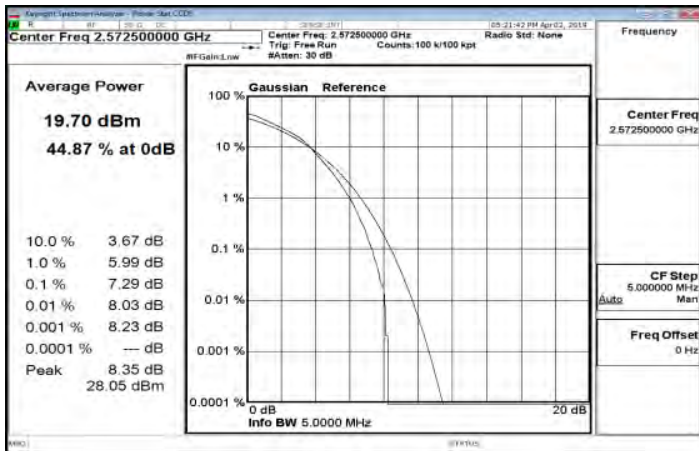


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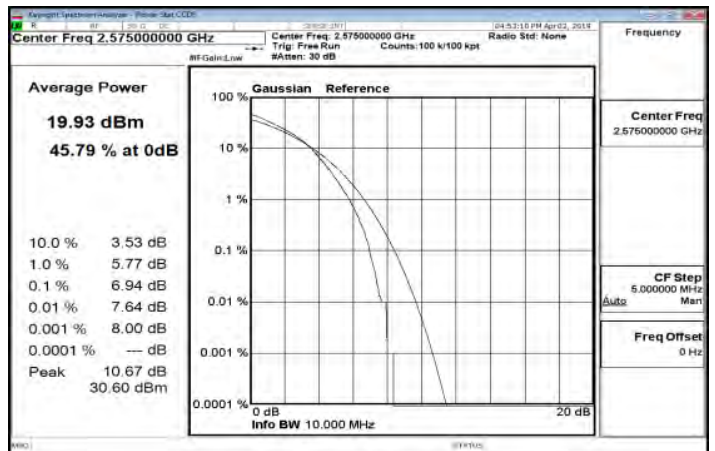
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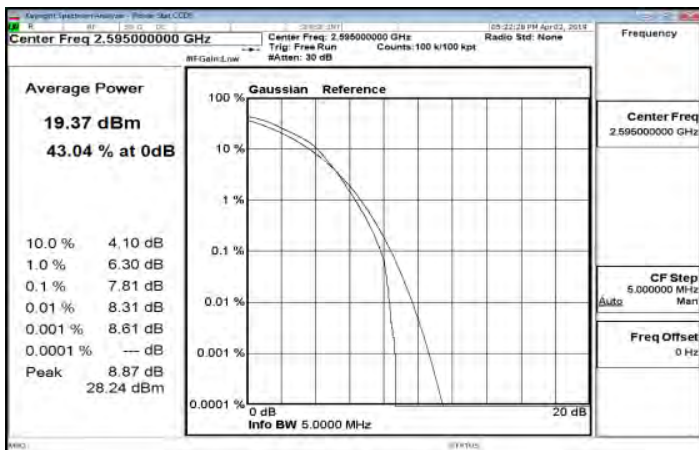
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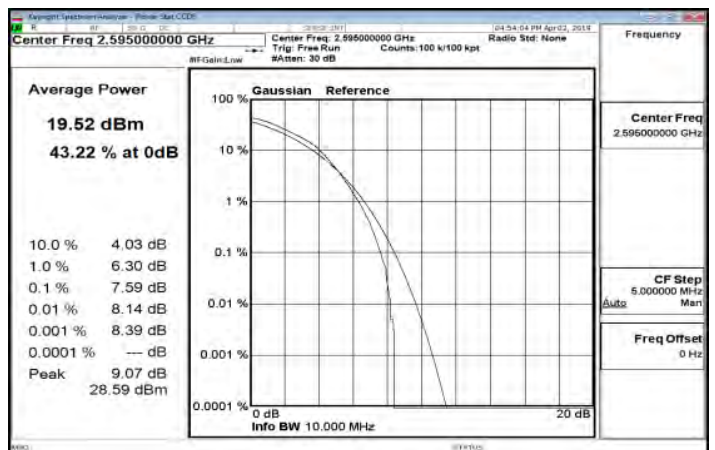
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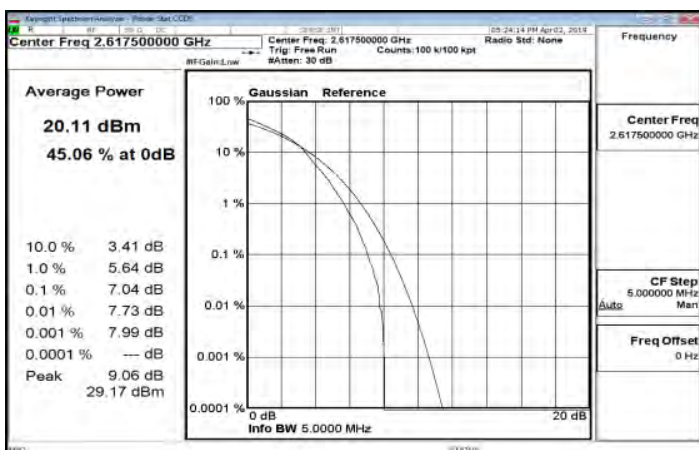
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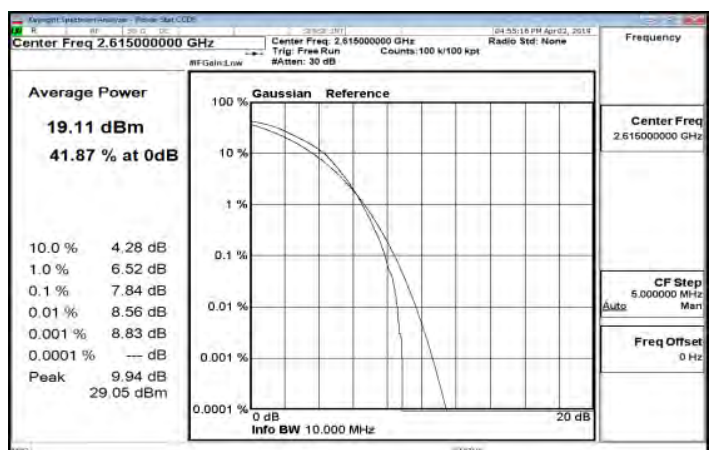
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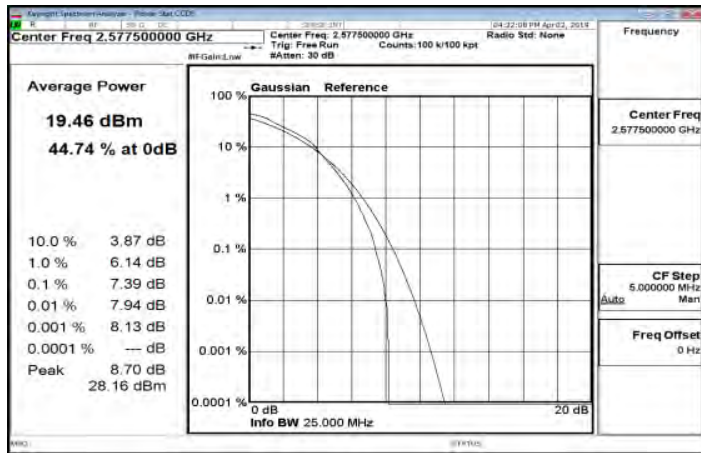
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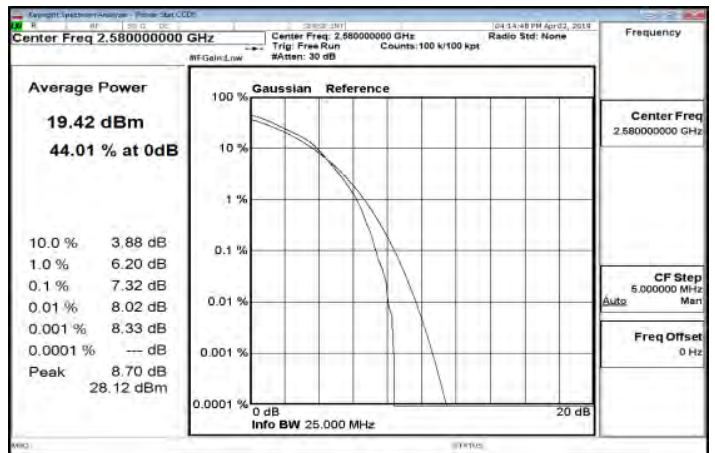
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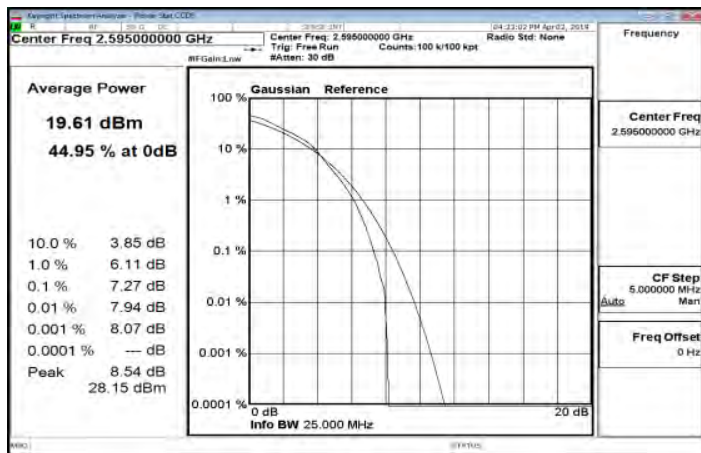
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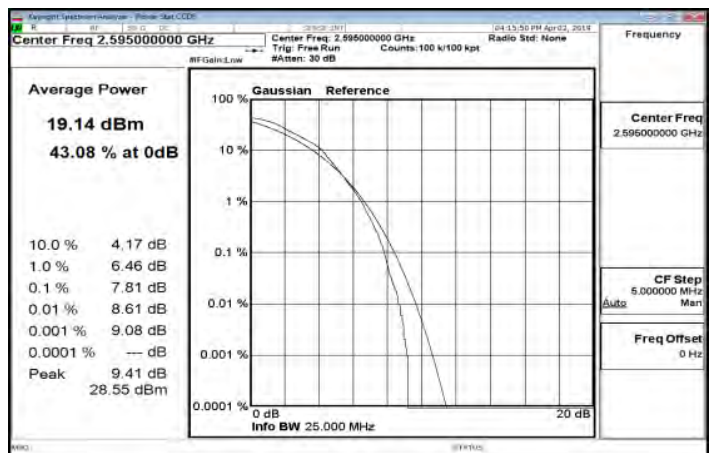
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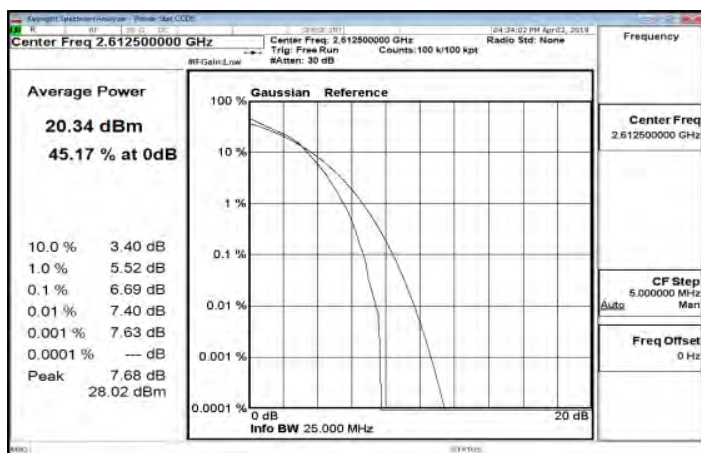
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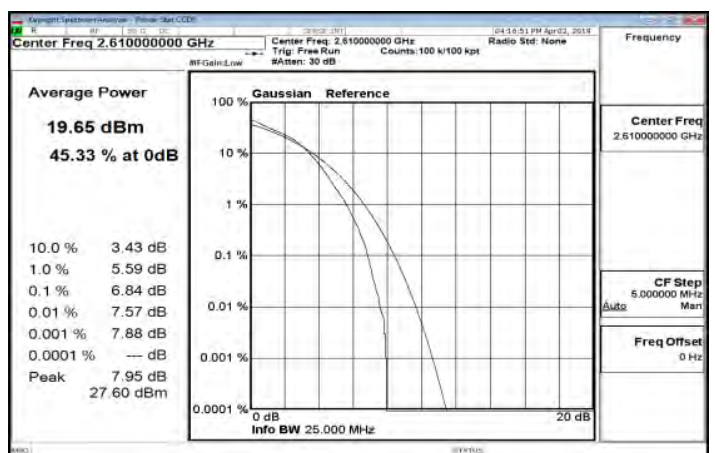
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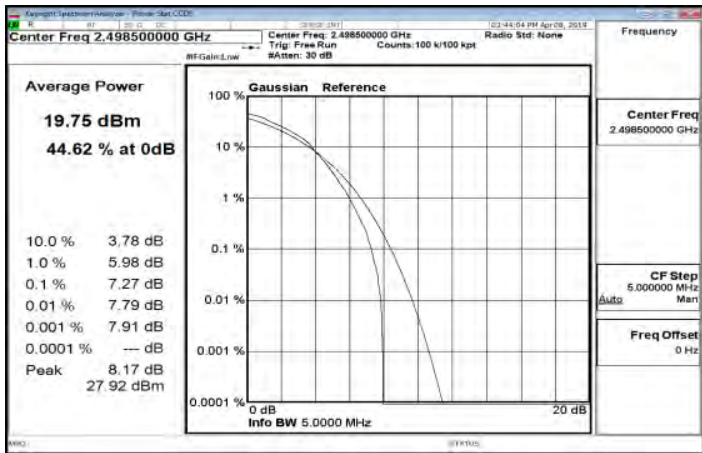


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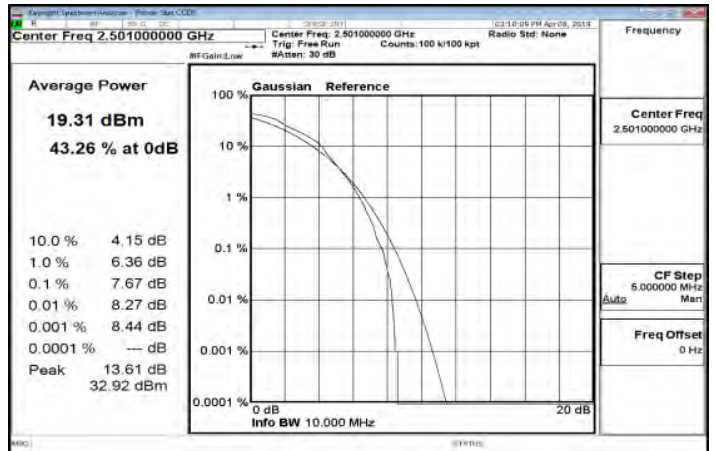
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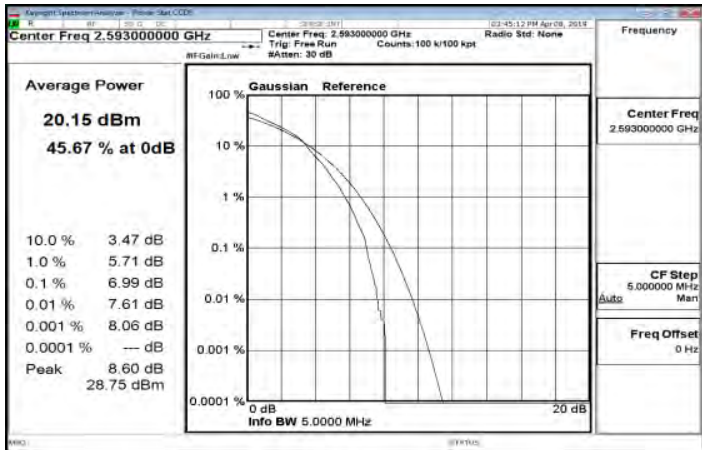
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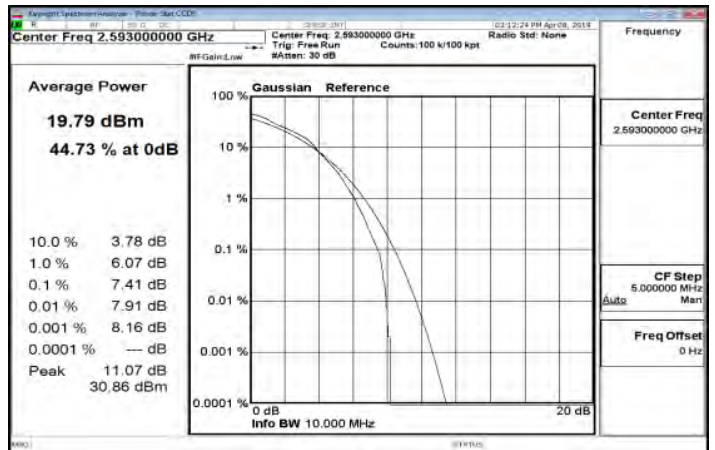
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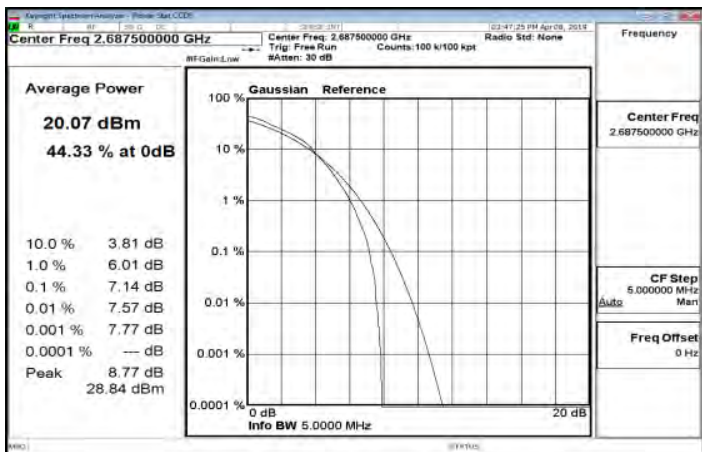
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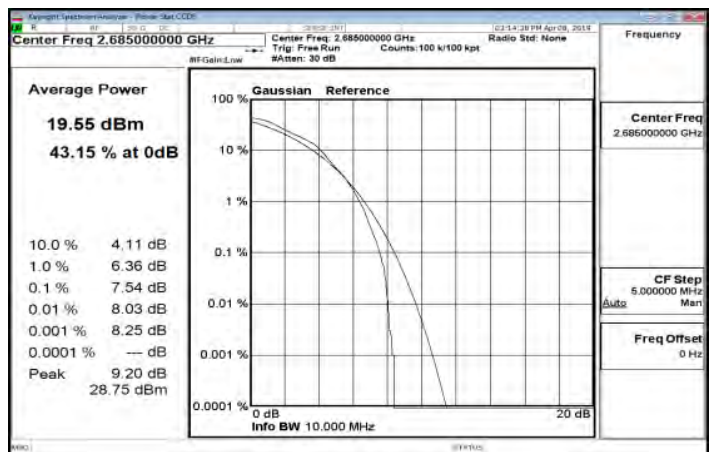
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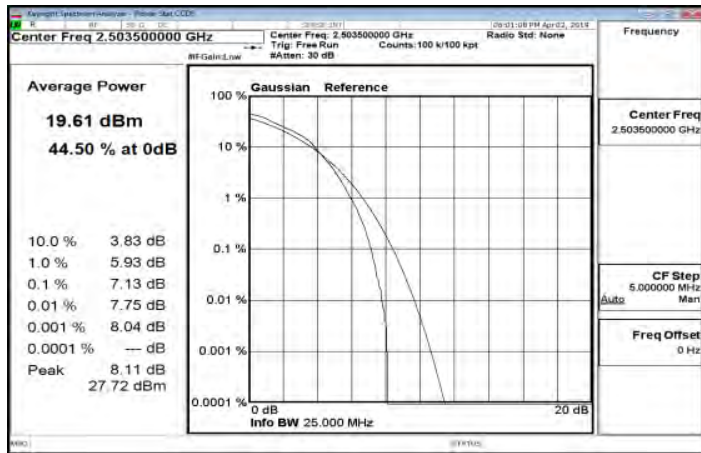
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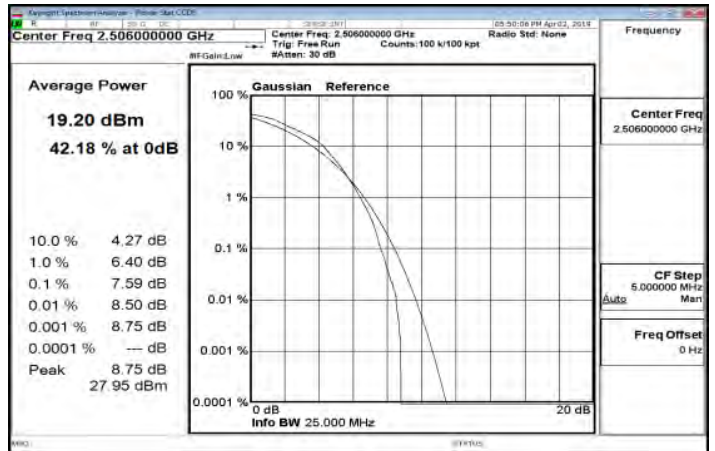
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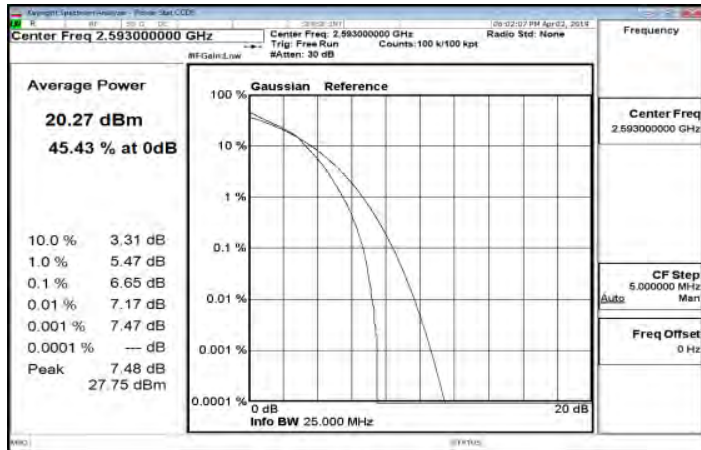
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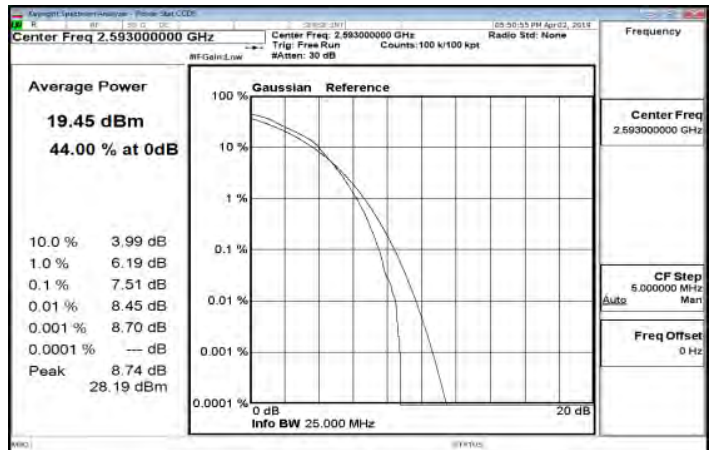
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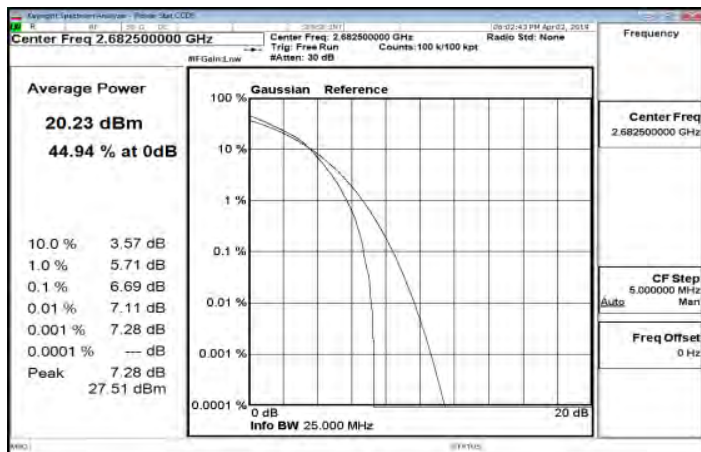
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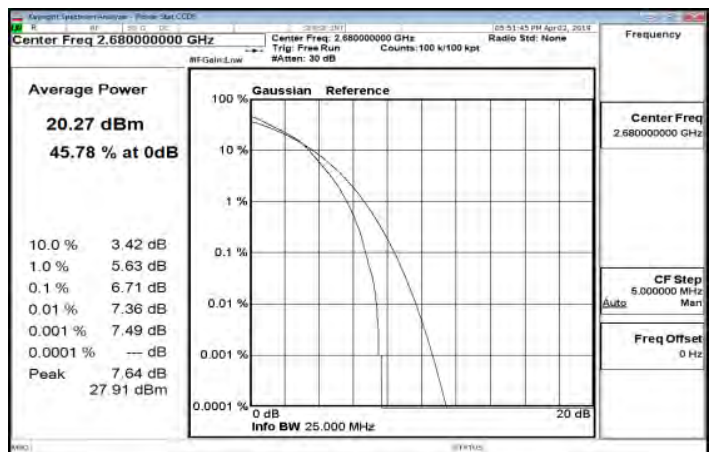
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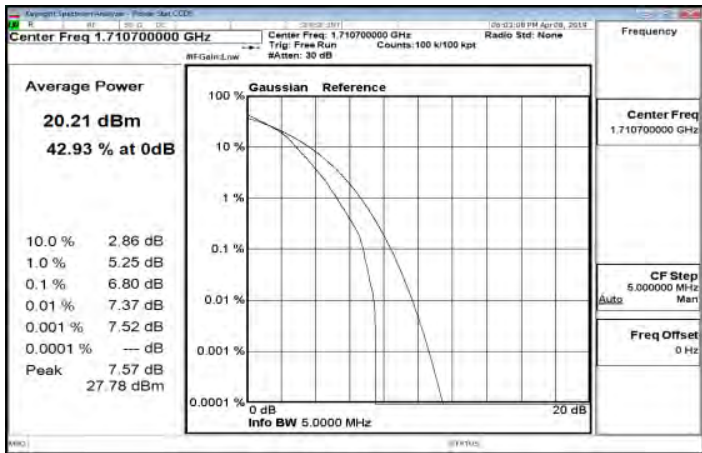


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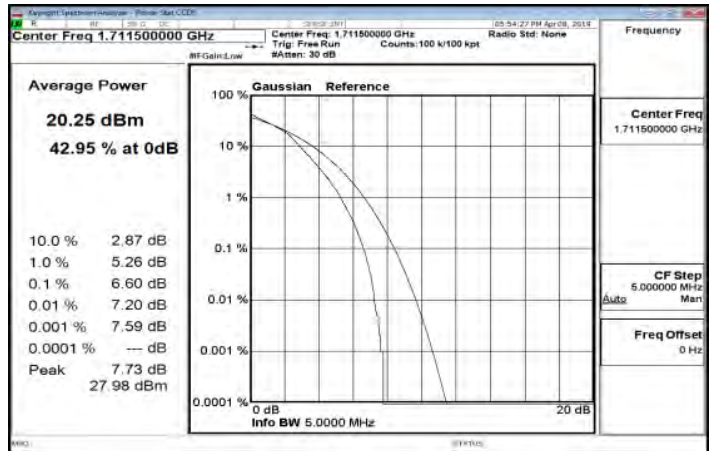
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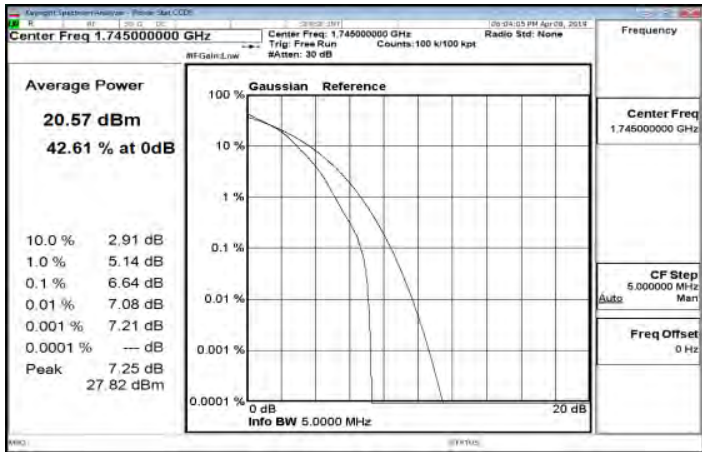
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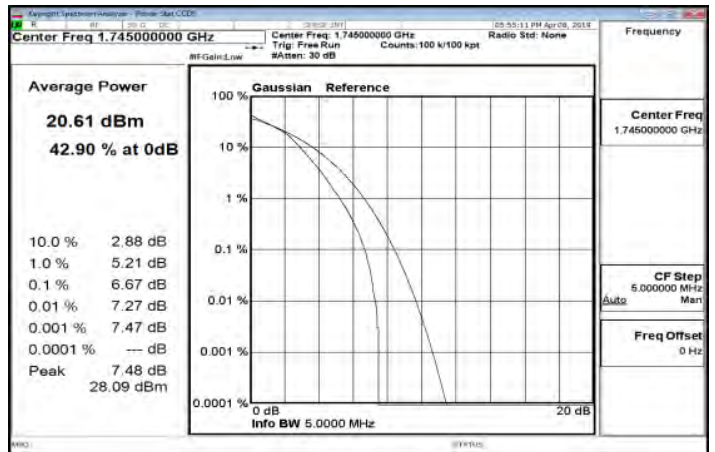
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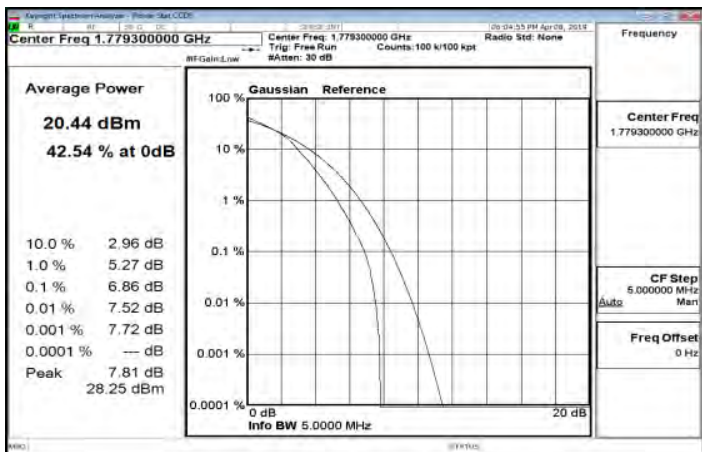
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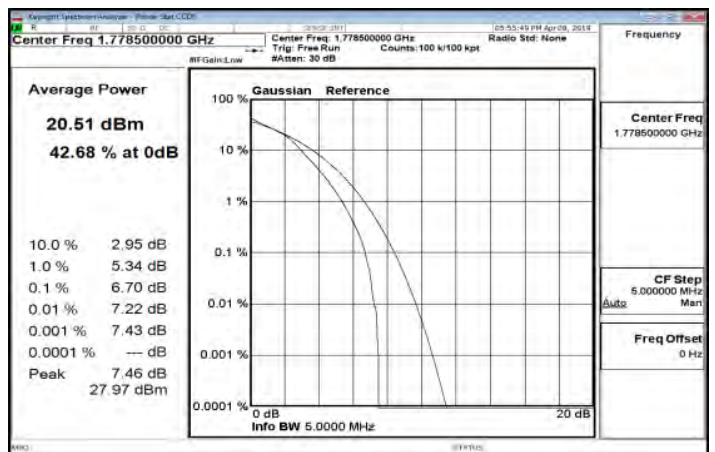
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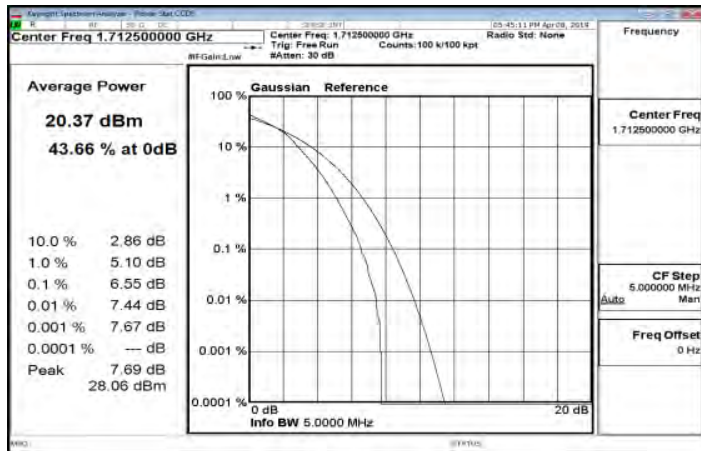
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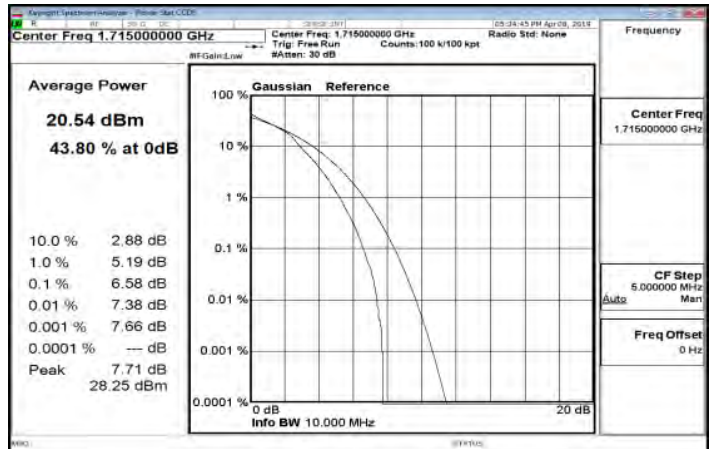
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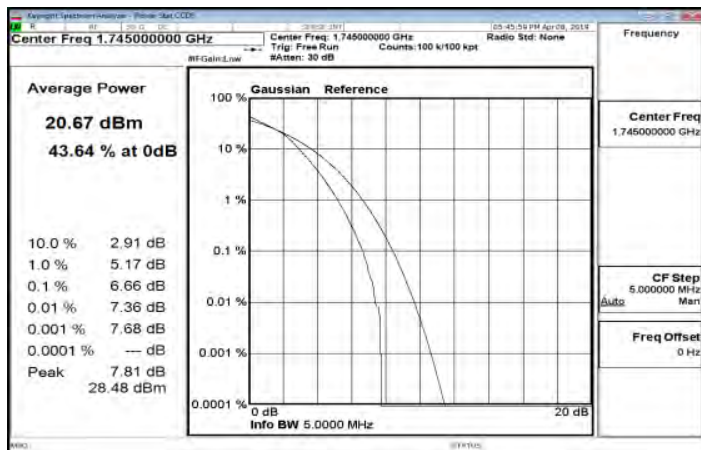
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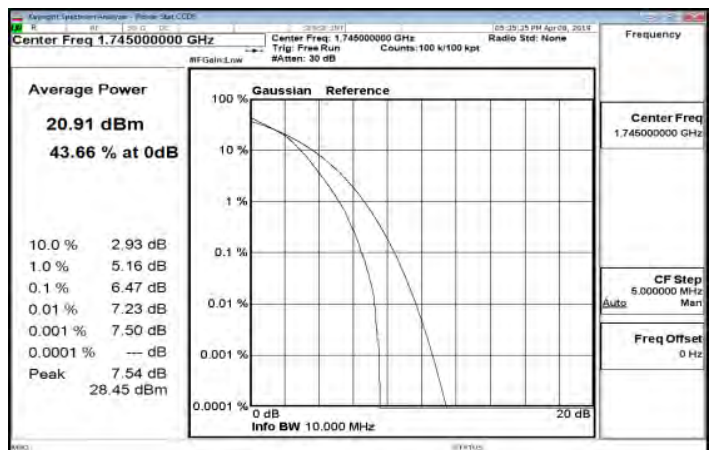
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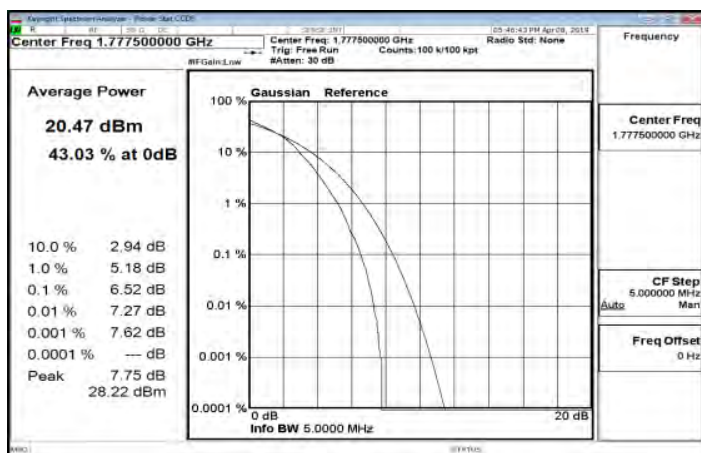
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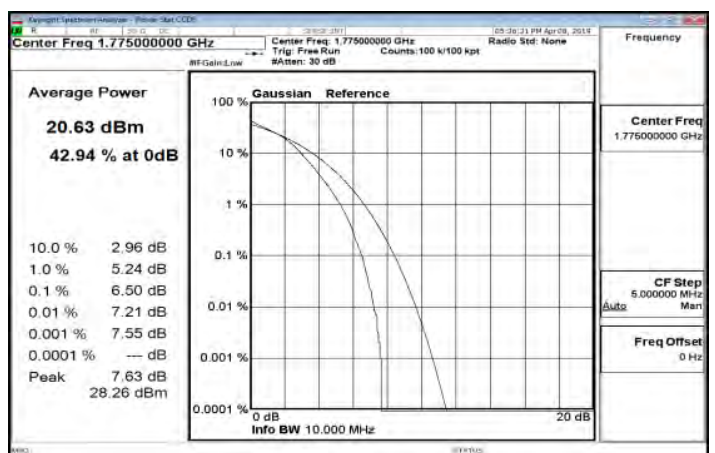
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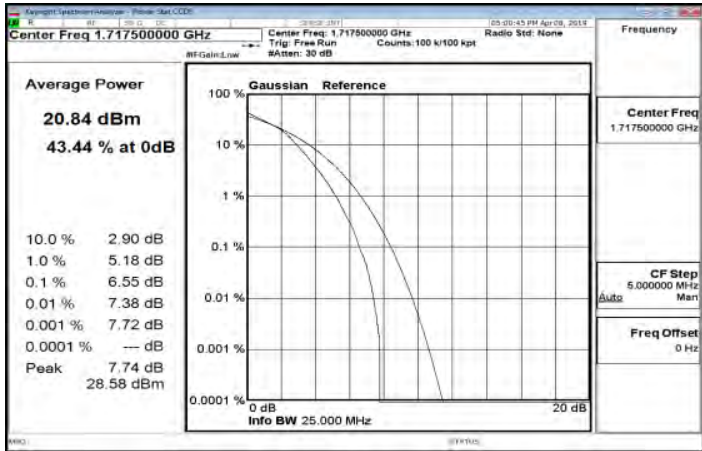


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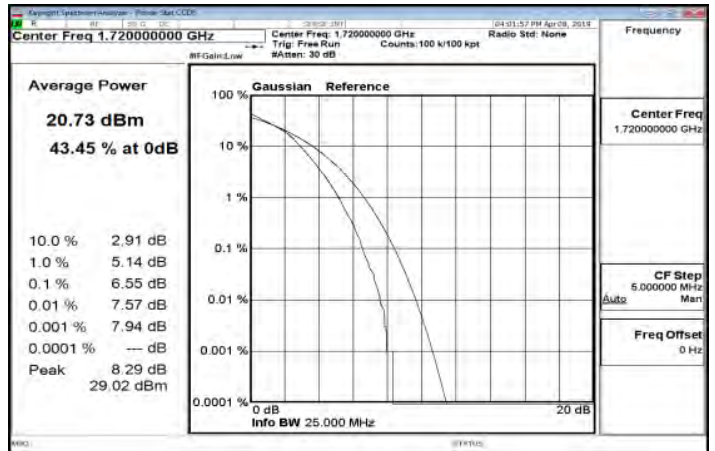
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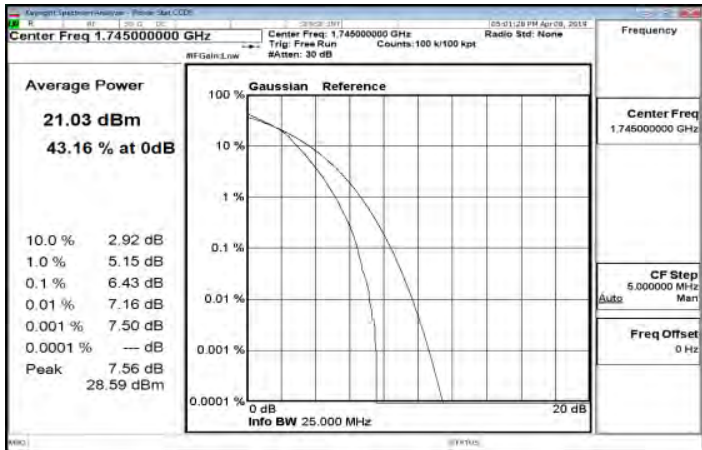
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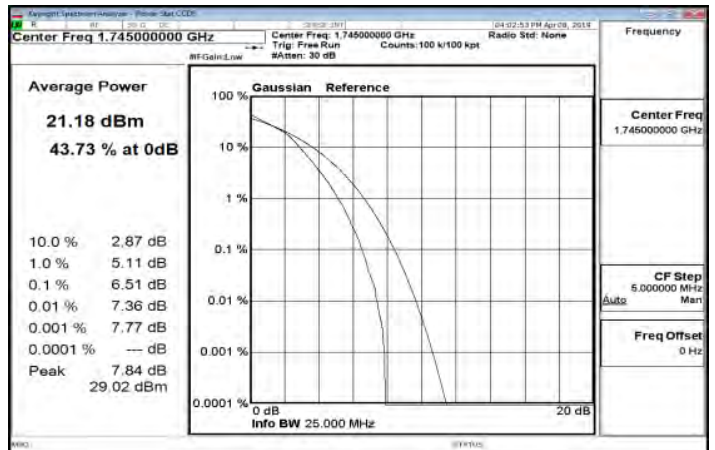
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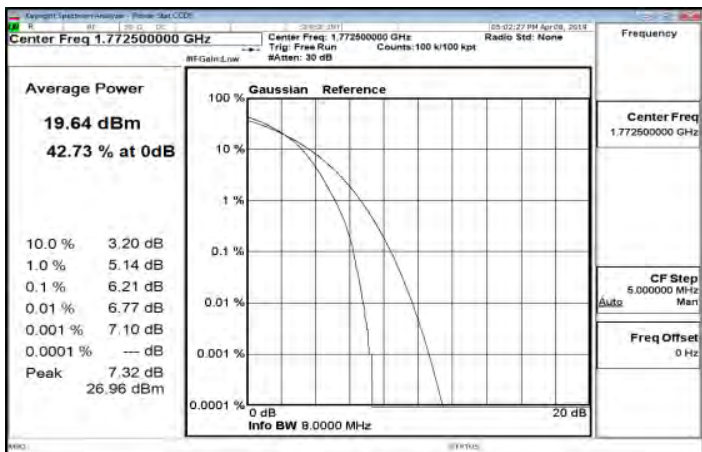
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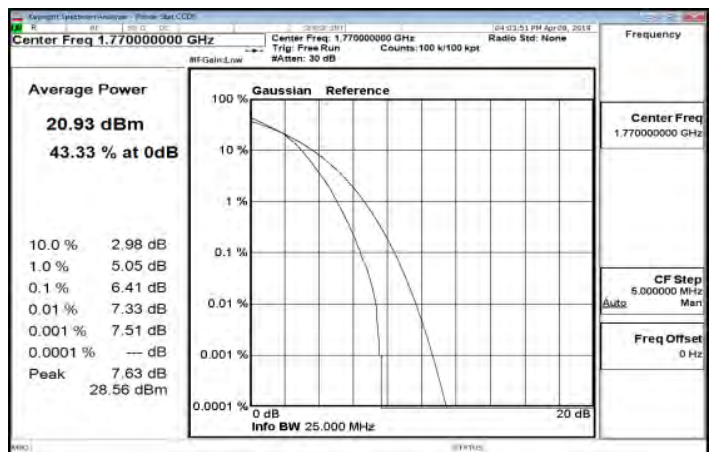
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LTE\_Band66\_15MHz\_16QAM\_75\_0\_HighCH132597-1772.5



LTE\_Band66\_20MHz\_16QAM\_100\_0\_HighCH132572-1770



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