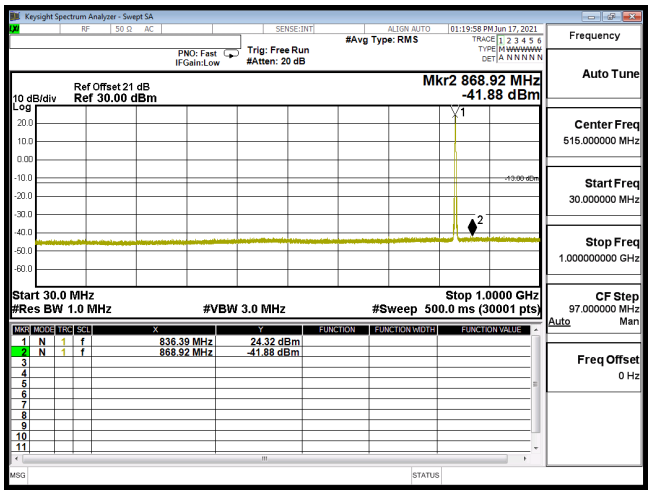
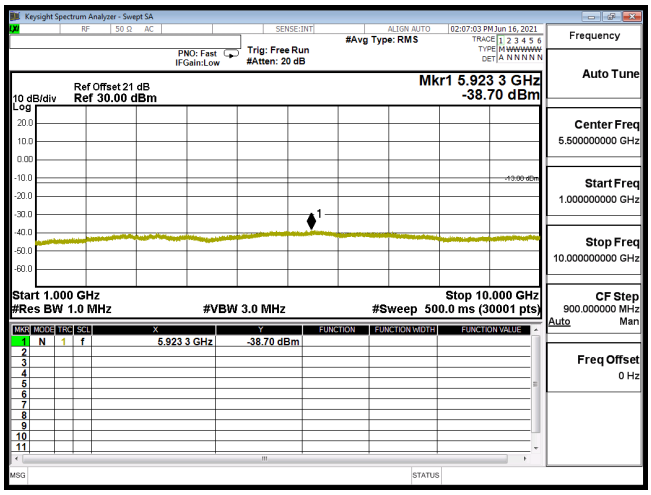
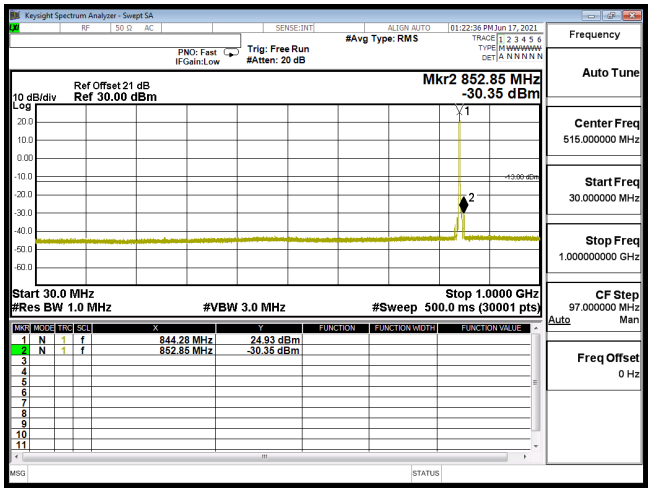


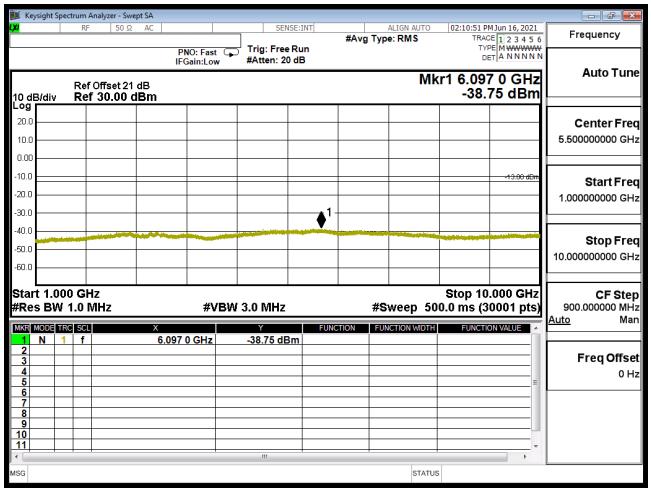
CSE B5 5M CH20525 16QAM(1,12) 30M-1G



CSE B5 5M CH20525 16QAM(1,12) 1G-10G



CSE B5 5M CH20625 QPSK(1,0) 30M-1G



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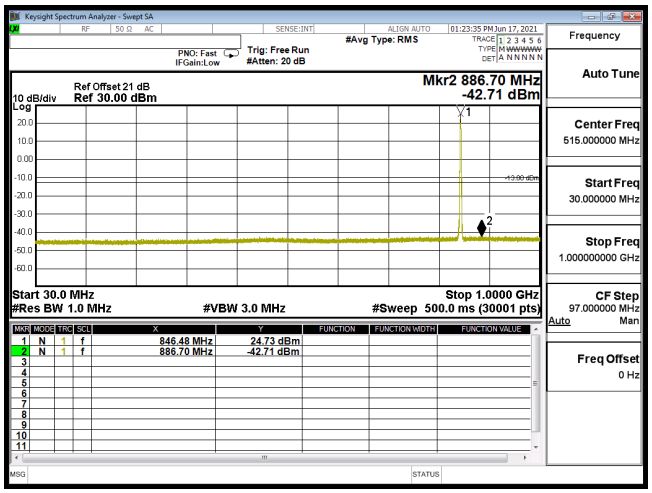

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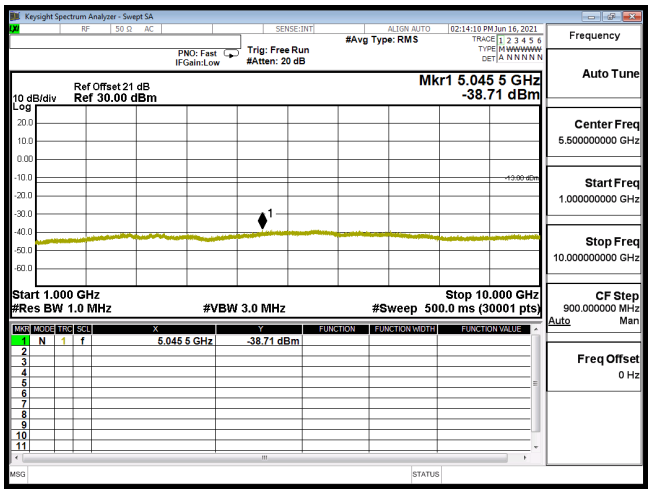

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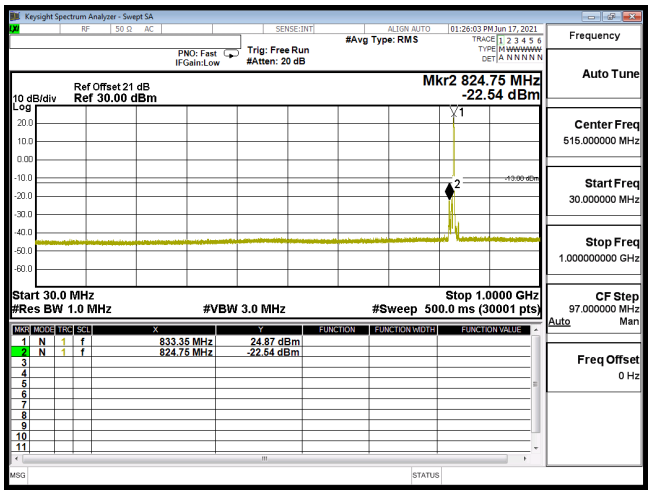
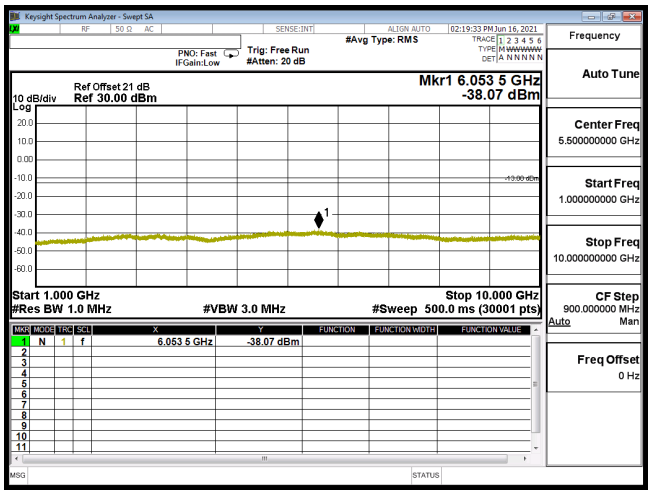


CSE B5 10M CH20450 QPSK(1,49) 30M-1G



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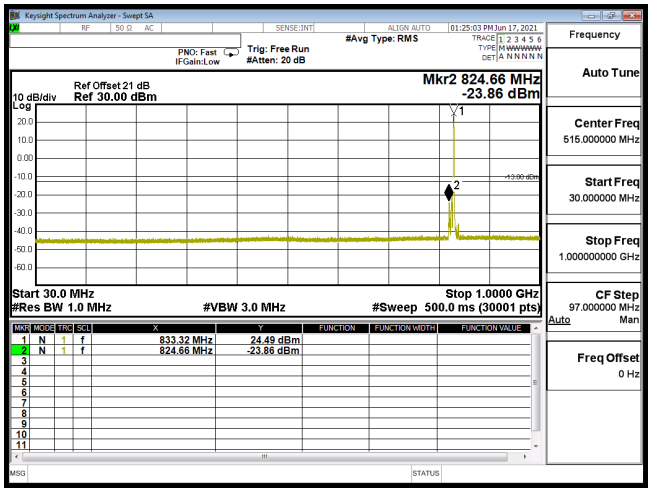

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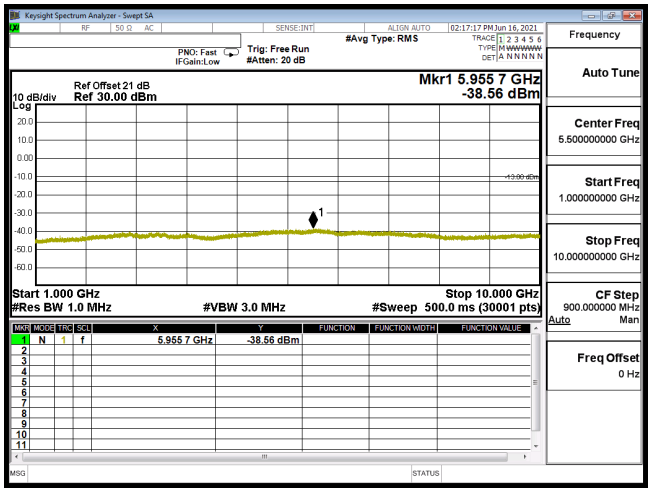

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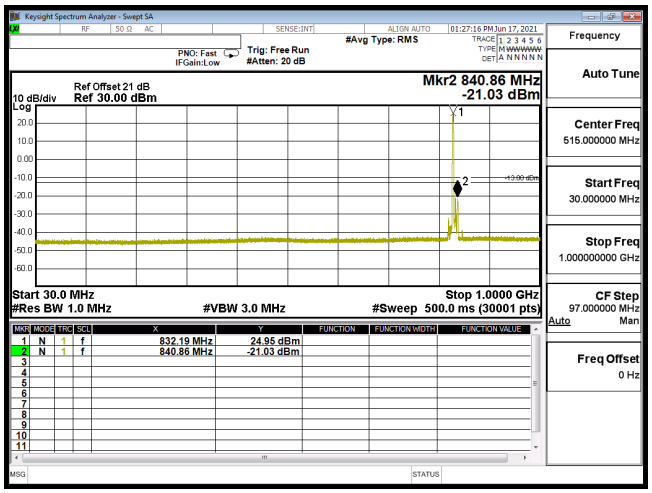
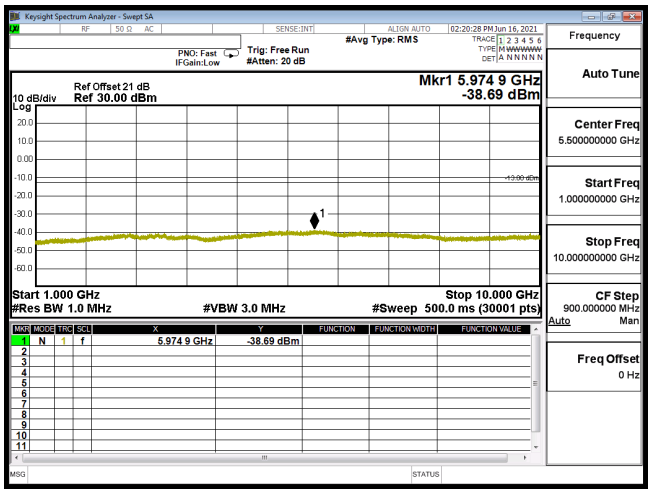
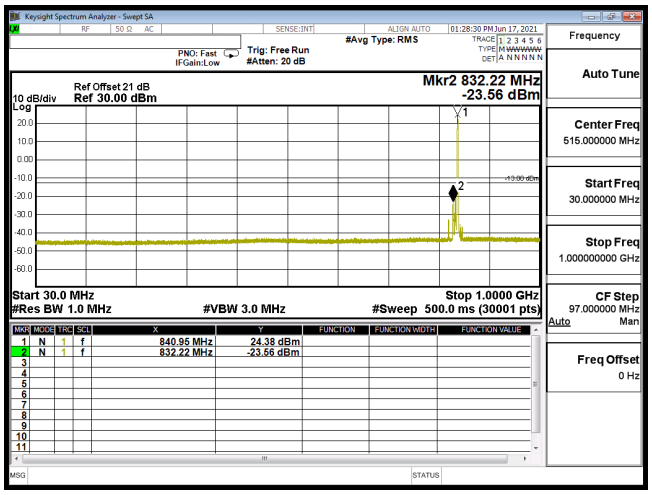


CSE B5 10M CH20525 QPSK(1,0) 30M-1G



CSE B5 10M CH20525 QPSK(1,0) 1G-10G



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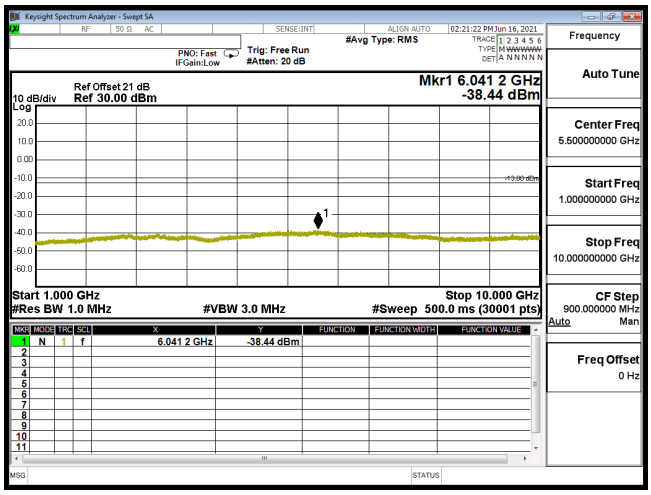

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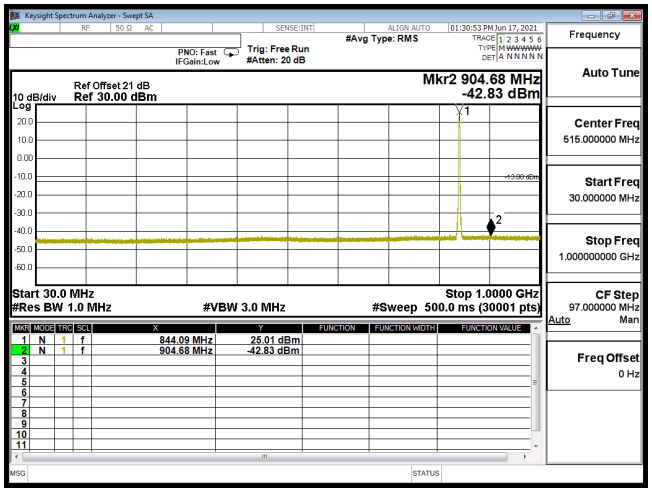
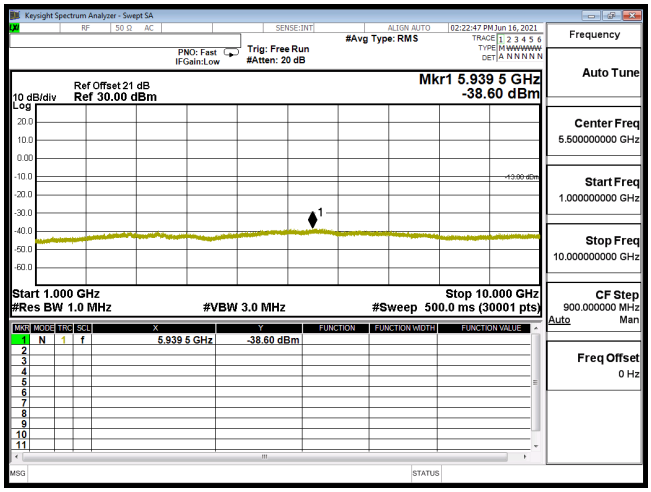


CSE B5 10M CH20600 QPSK(1,25) 30M-1G



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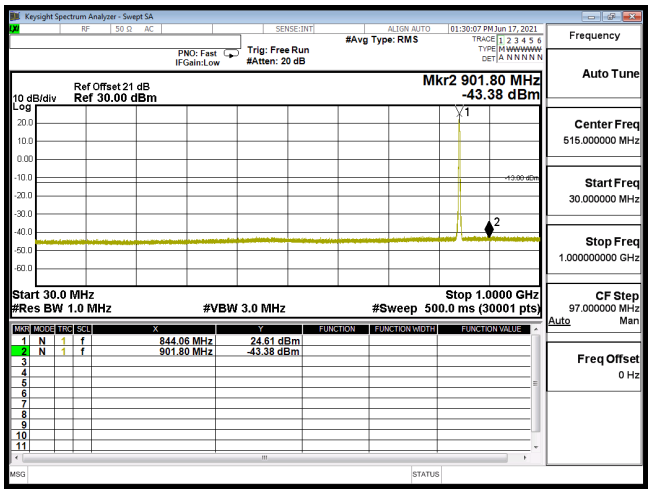

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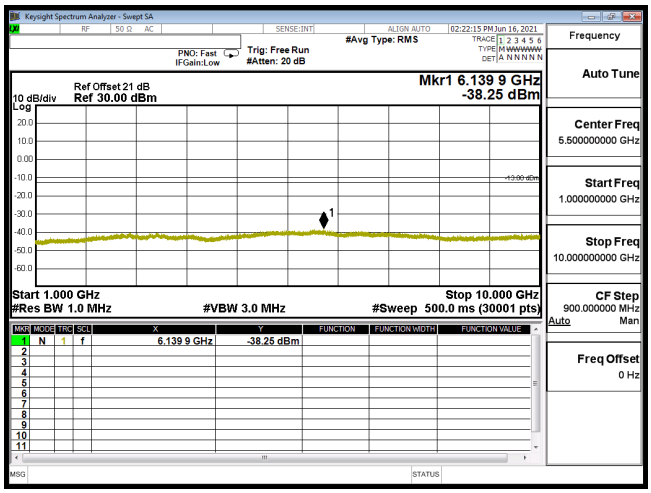
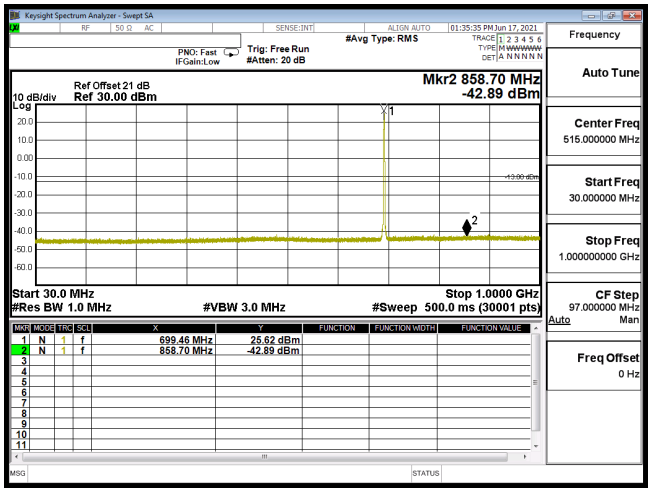
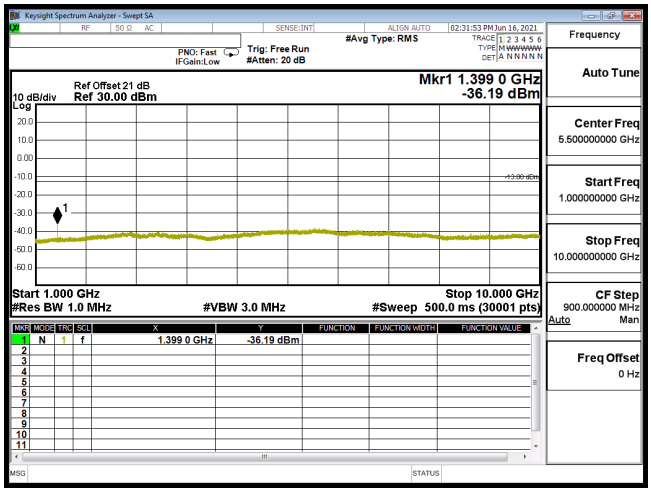


CSE B5 10M CH20600 16QAM(1,25) 1G-10G

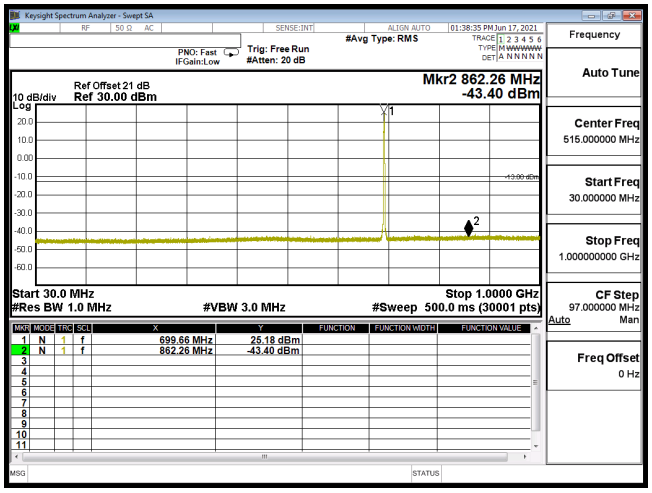
Product	WCDMA/LTE Mobile Phone		
Test Mode	Spurious Emission (Conducted)		
Date of Test	2021/06/17	Test Site	CTR
Test Condition	LTE-Band 12	Test Range	30MHz~10GHz



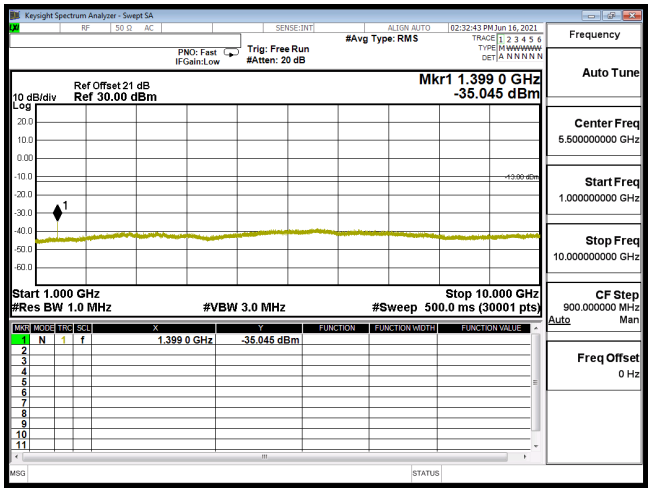
CSE B12 1.4M CH23017 QPSK(1,2) 30M-1G



CSE B12 1.4M CH23017 QPSK(1,2) 1G-10G



CSE B12 1.4M CH23017 16QAM(1,2) 30M-1G



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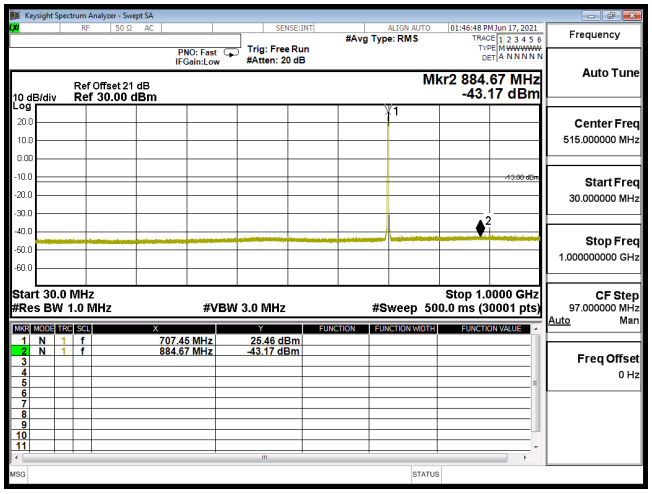
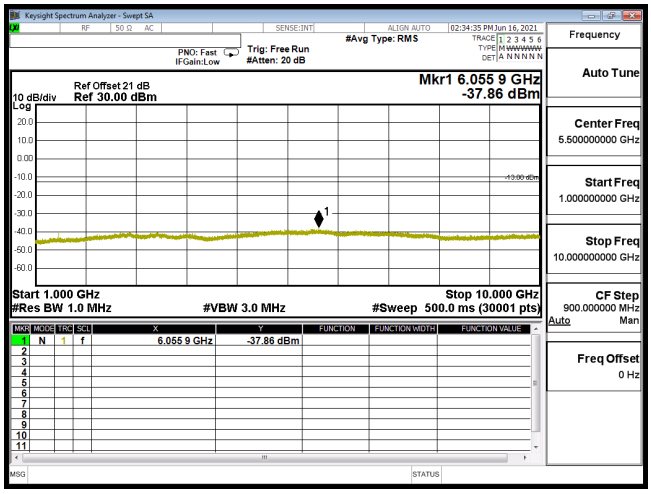
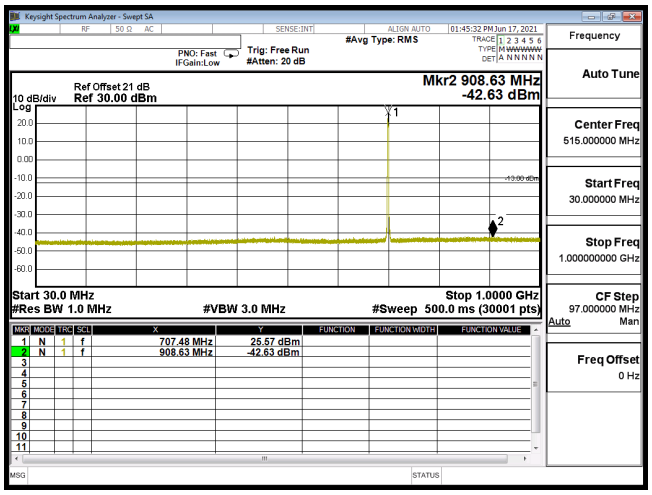


CSE B12 1.4M CH23095 QPSK(1,2) 30M-1G



CSE B12 1.4M CH23095 QPSK(1,2) 1G-10G



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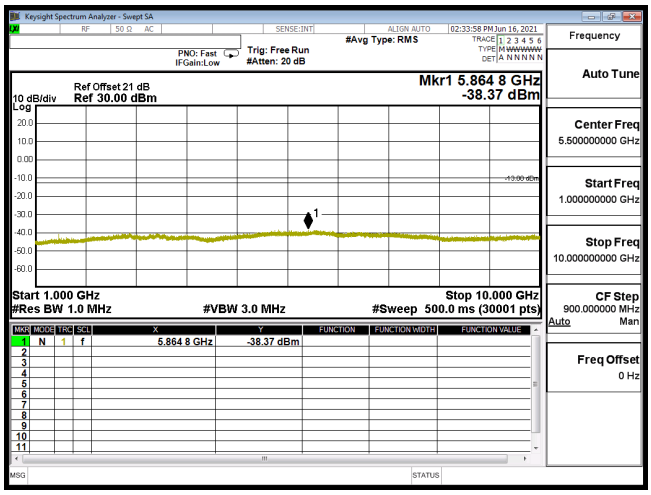

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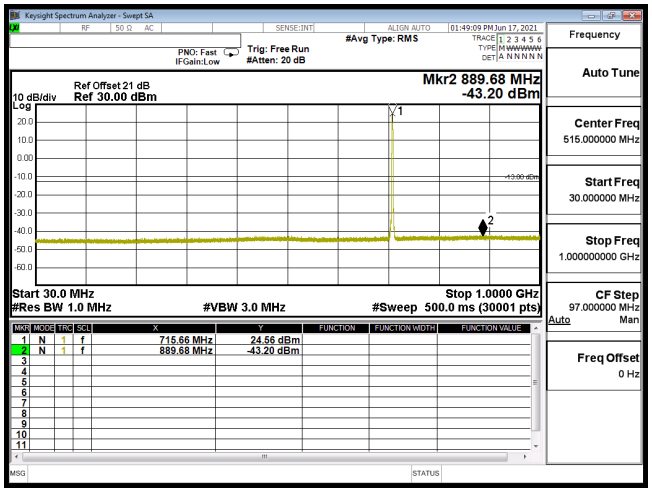
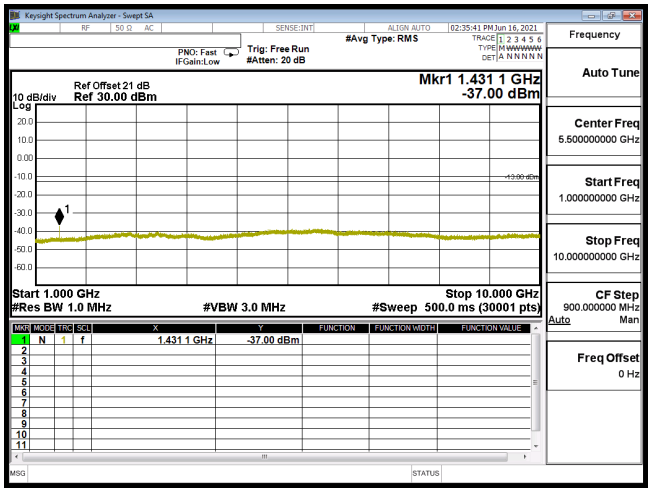


CSE B12 1.4M CH23173 QPSK(3,3) 30M-1G



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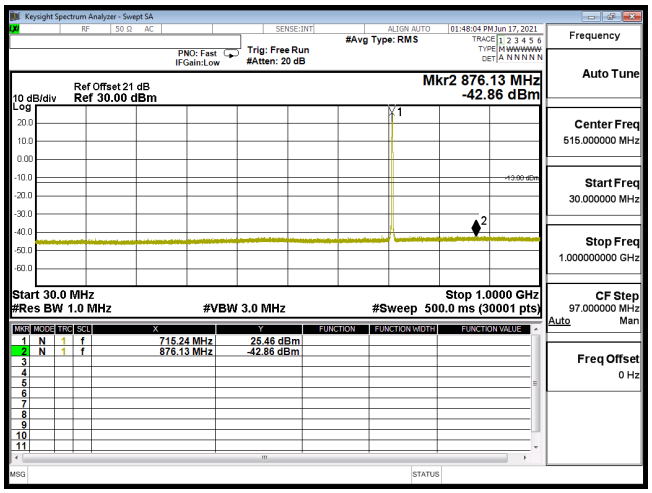

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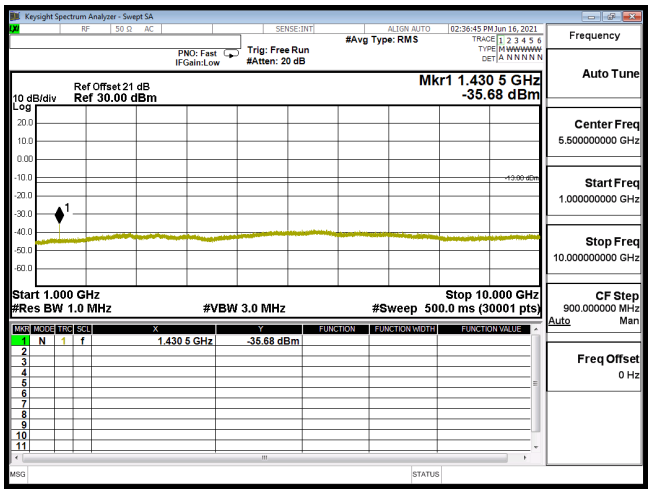
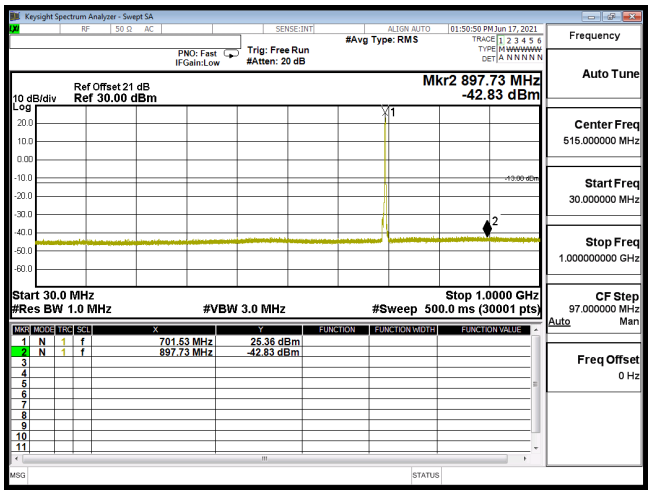
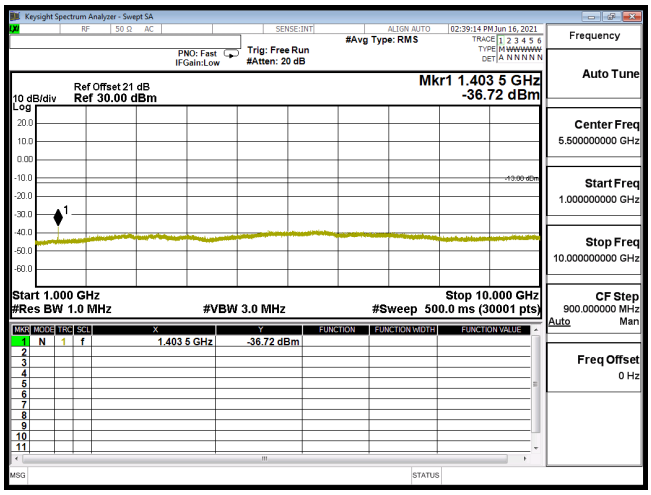


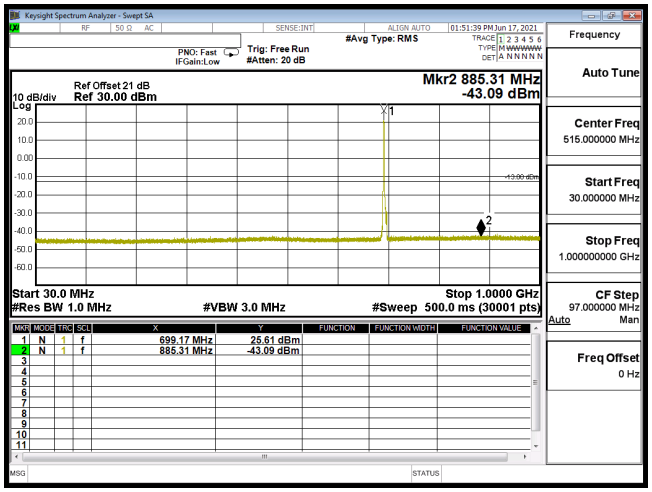
CSE B12 1.4M CH23173 16QAM(1,2) 1G-10G



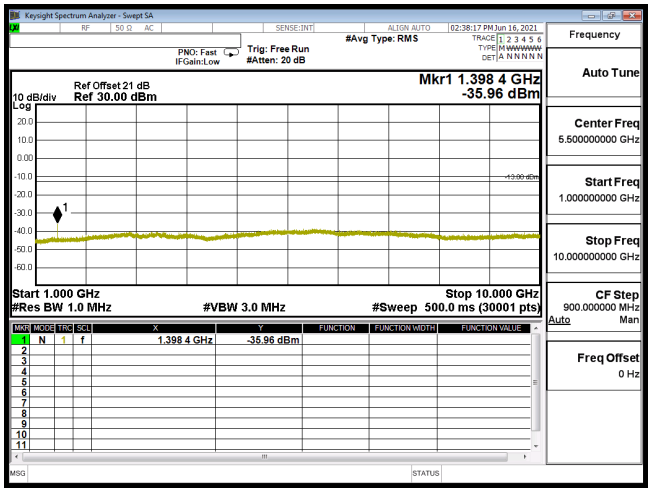
CSE B12 3M CH23025 QPSK(1,14) 30M-1G



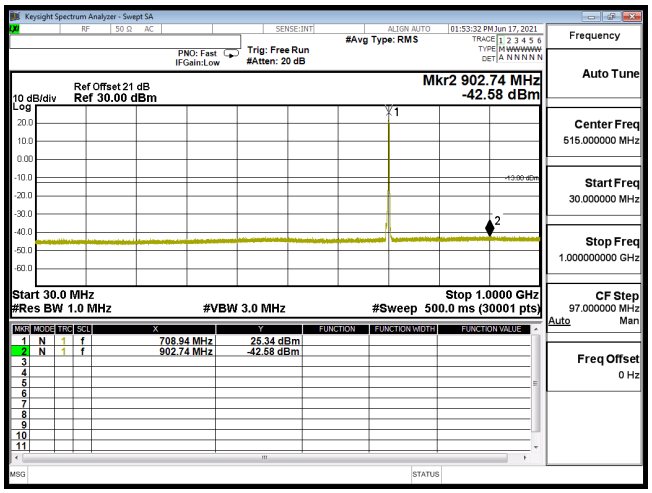
CSE B12 3M CH23025 QPSK(1,14) 1G-10G



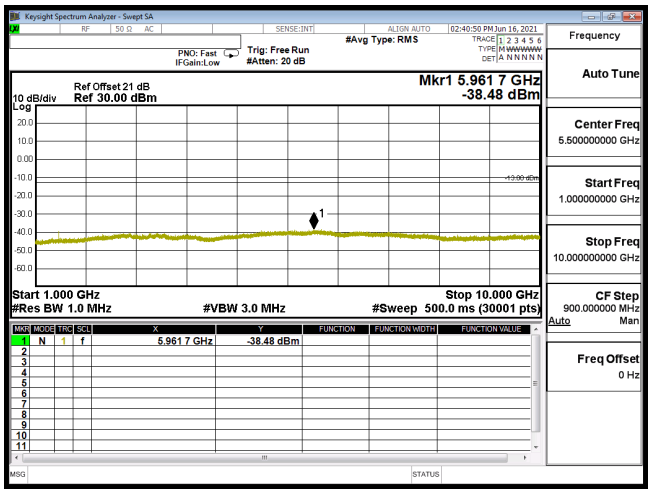
CSE B12 3M CH23025 16QAM(1,0) 30M-1G



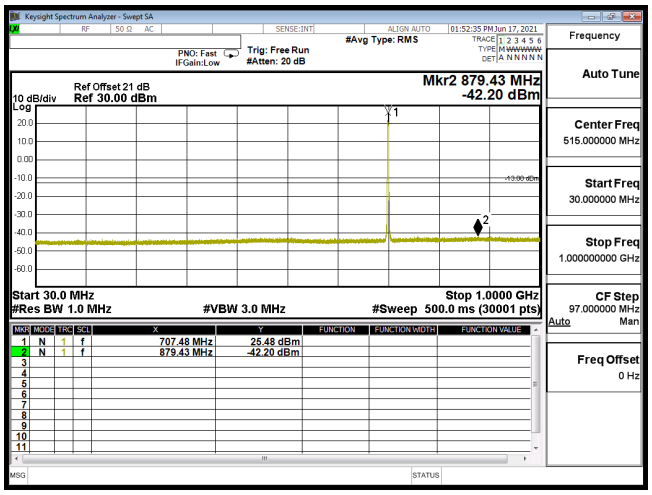
CSE B12 3M CH23025 16QAM(1,0) 1G-10G



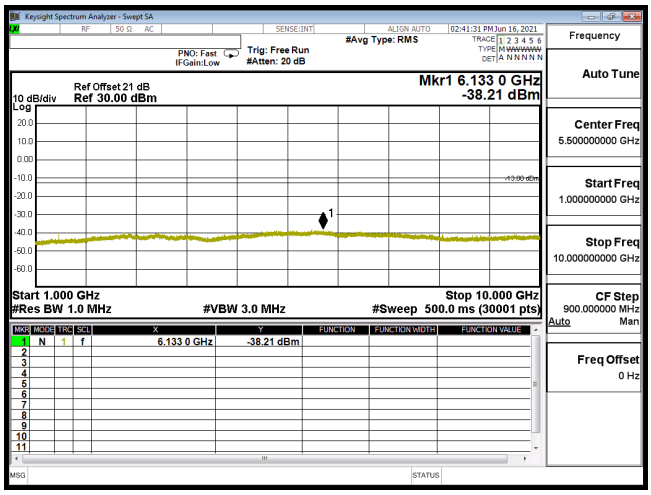
CSE B12 3M CH23095 QPSK(1,14) 30M-1G



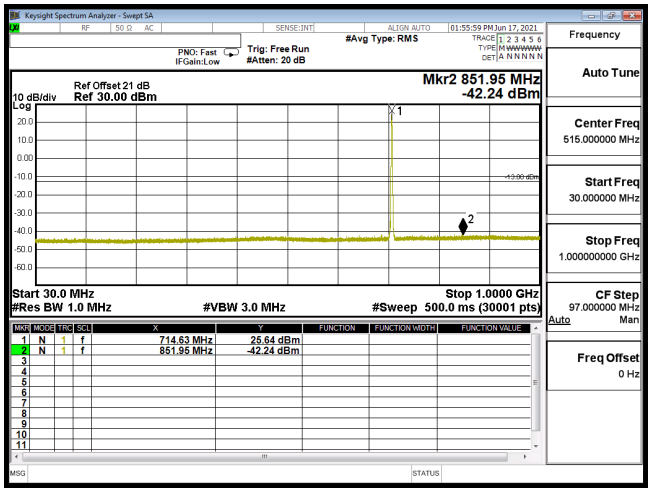
CSE B12 3M CH23095 QPSK(1,14) 1G-10G



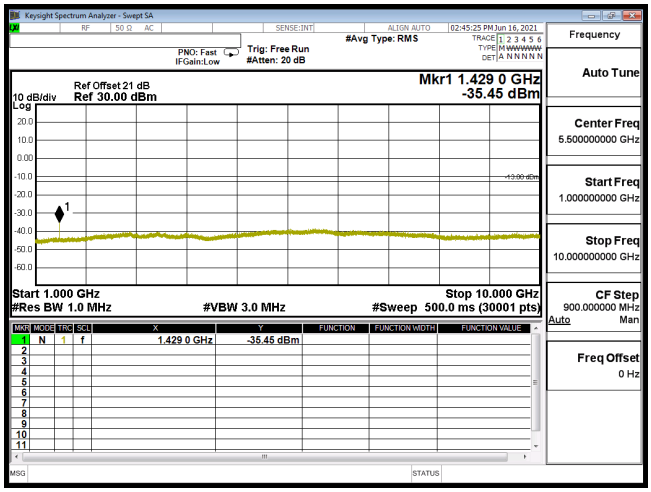
CSE B12 3M CH23095 16QAM(1,7) 30M-1G



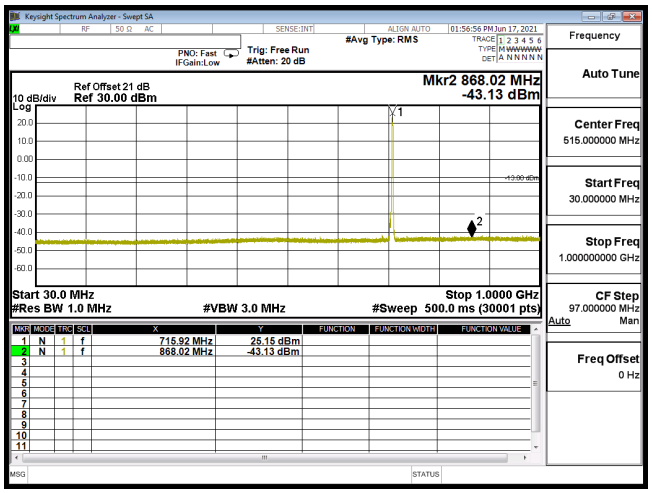
CSE B12 3M CH23095 16QAM(1,7) 1G-10G



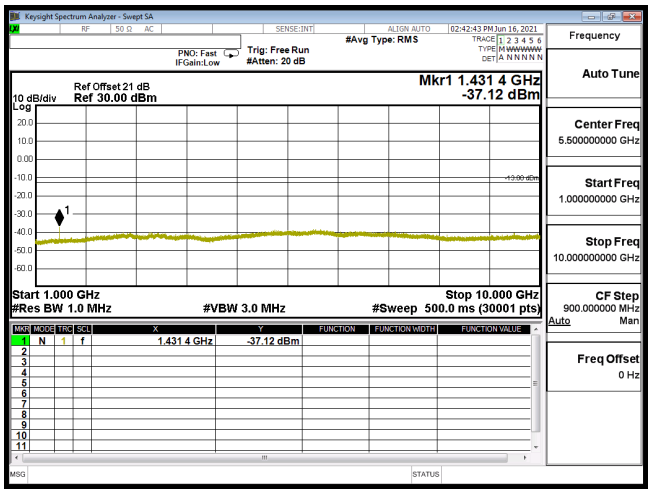
CSE B12 3M CH23165 QPSK(1,7) 30M-1G



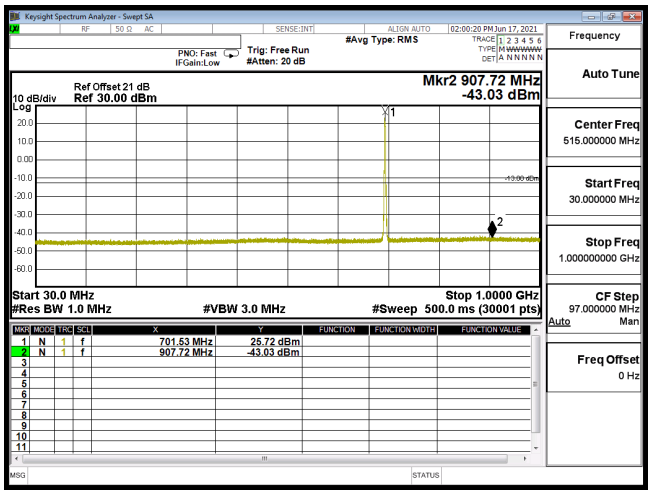
CSE B12 3M CH23165 QPSK(1,7) 1G-10G



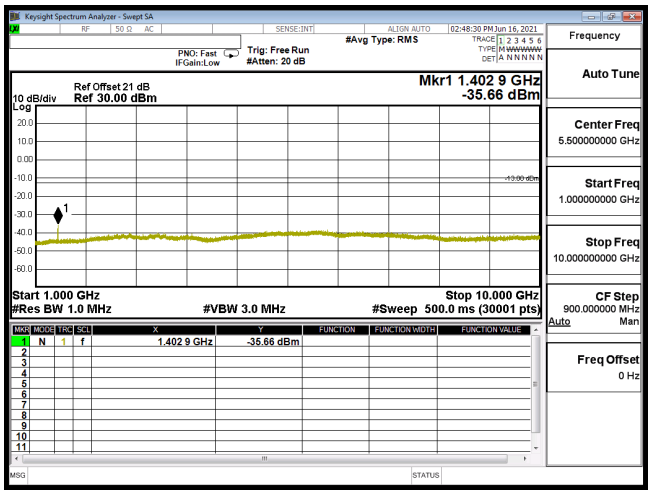
CSE B12 3M CH23165 16QAM(1,14) 30M-1G



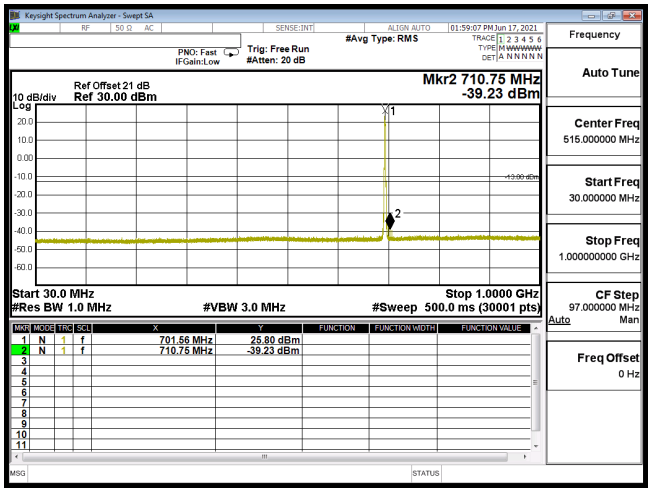
CSE B12 3M CH23165 16QAM(1,14) 1G-10G



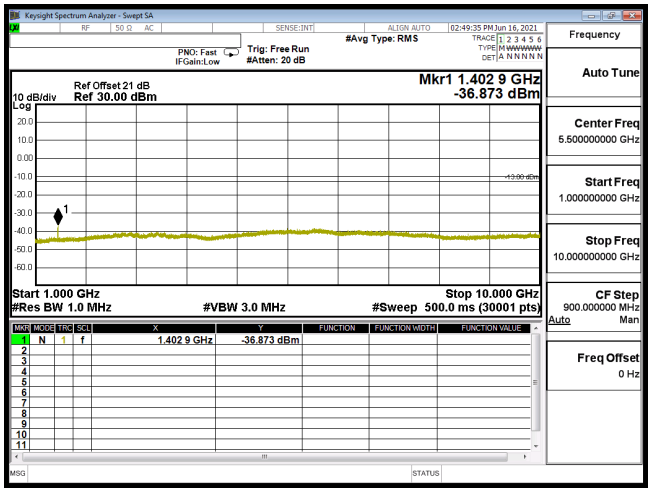
CSE B12 5M CH23035 QPSK(1,12) 30M-1G



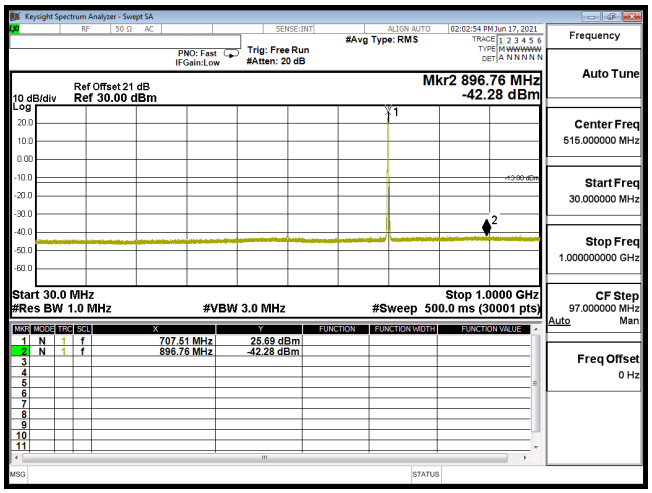
CSE B12 5M CH23035 QPSK(1,12) 1G-10G



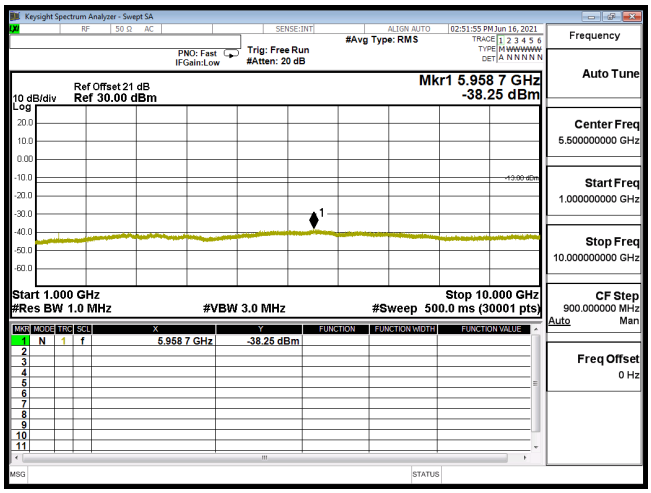
CSE B12 5M CH23035 16QAM(1,12) 30M-1G



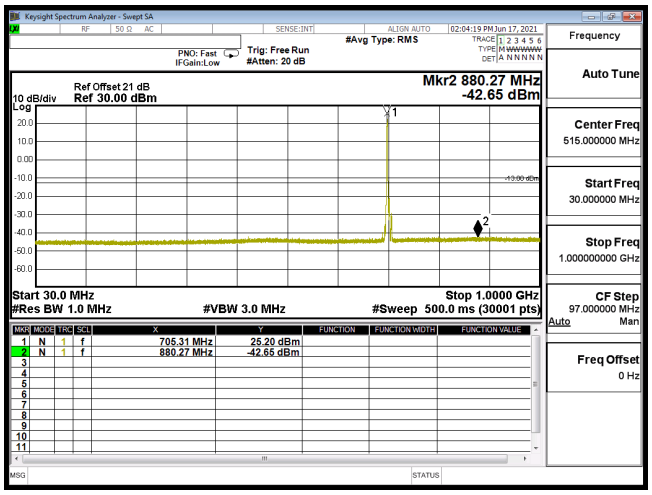
CSE B12 5M CH23035 16QAM(1,12) 1G-10G



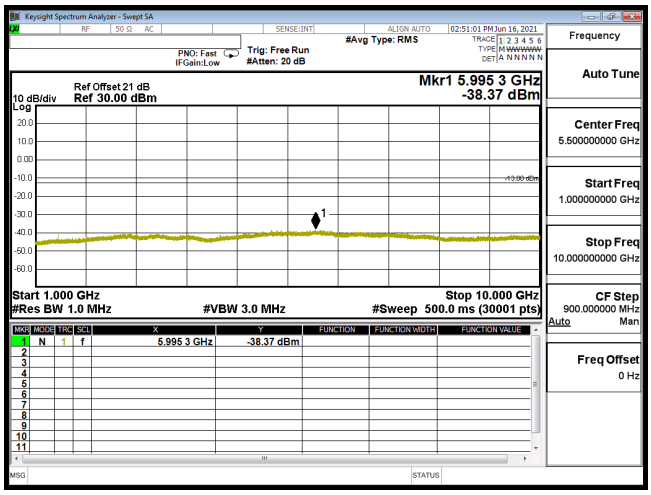
CSE B12 5M CH23095 QPSK(1,12) 30M-1G



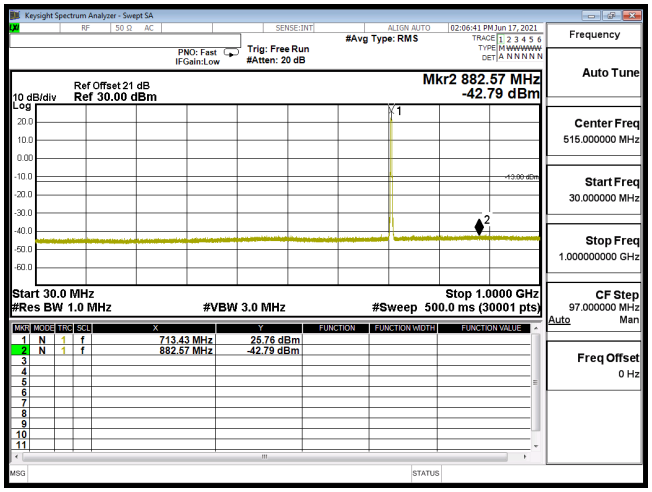
CSE B12 5M CH23095 QPSK(1,12) 1G-10G



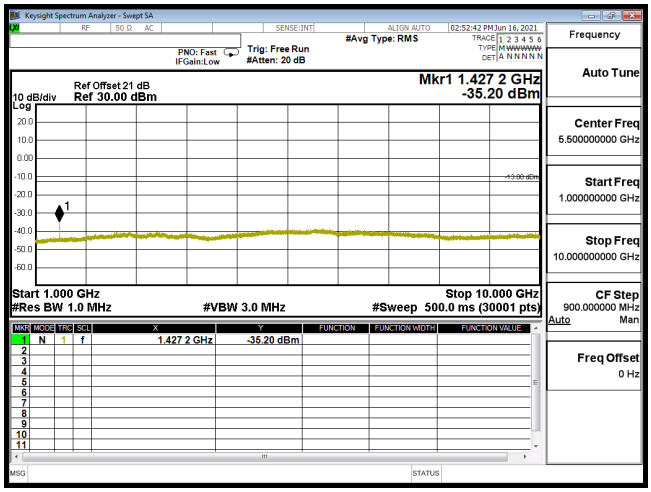
CSE B12 5M CH23095 16QAM(1,0) 30M-1G



CSE B12 5M CH23095 16QAM(1,0) 1G-10G



CSE B12 5M CH23155 QPSK(1,12) 30M-1G



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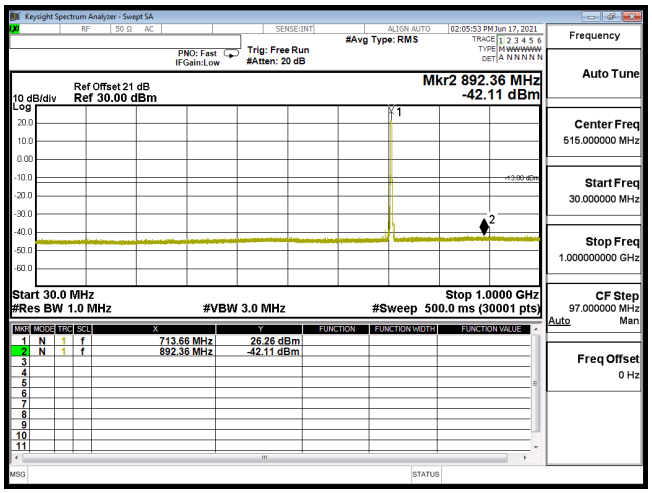

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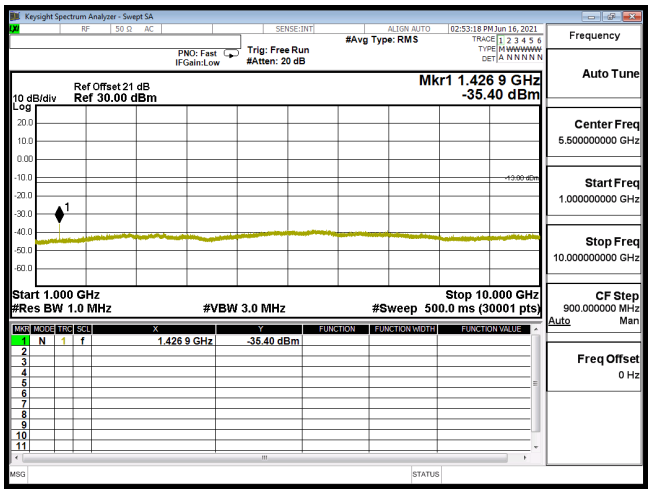

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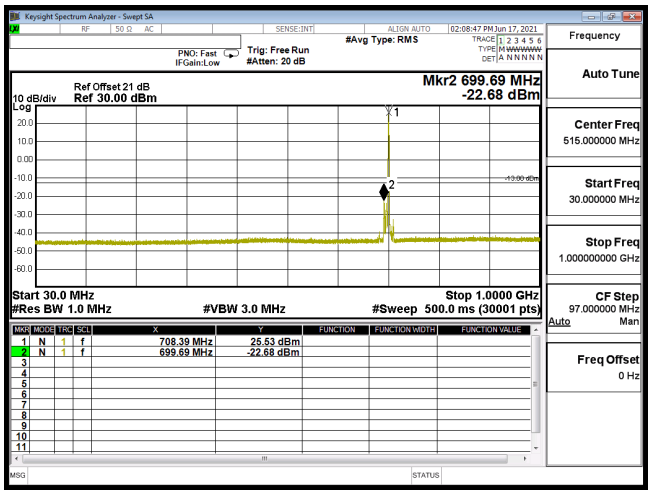
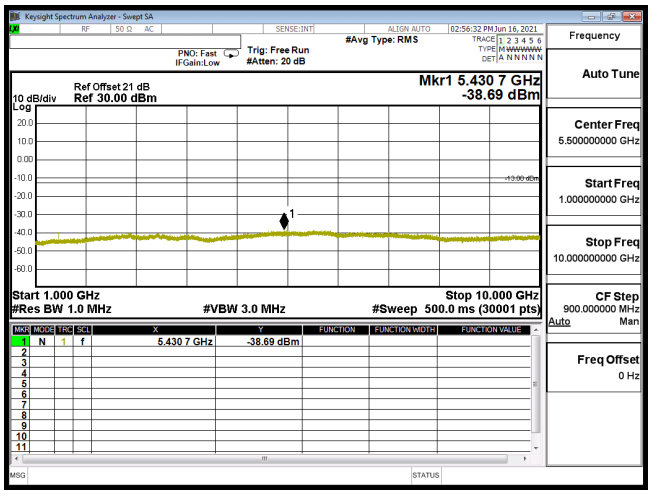


CSE B12 10M CH23060 QPSK(1,49) 30M-1G



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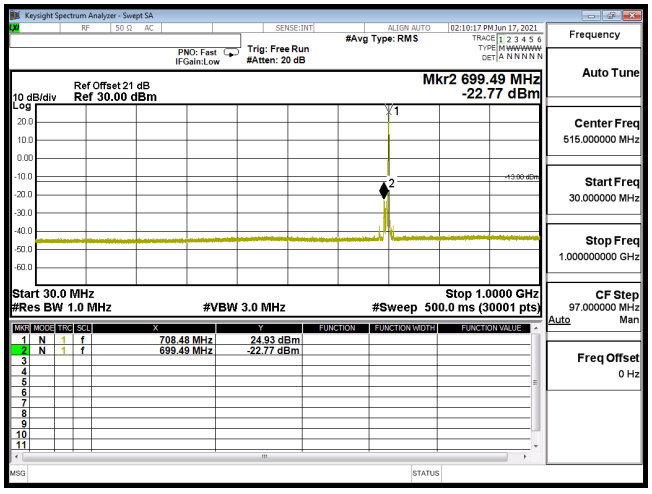

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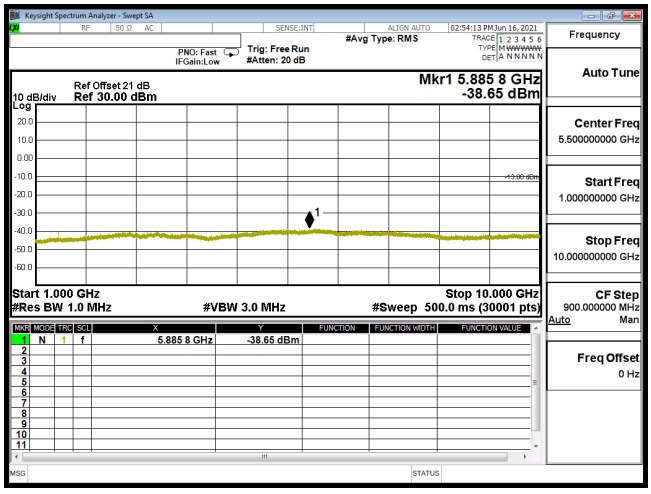

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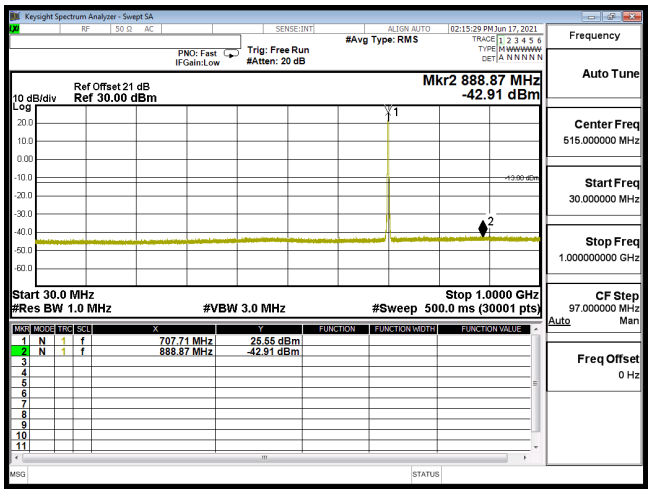
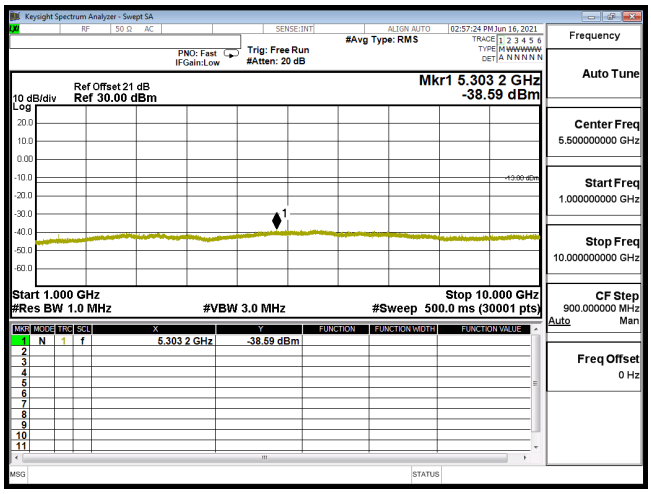
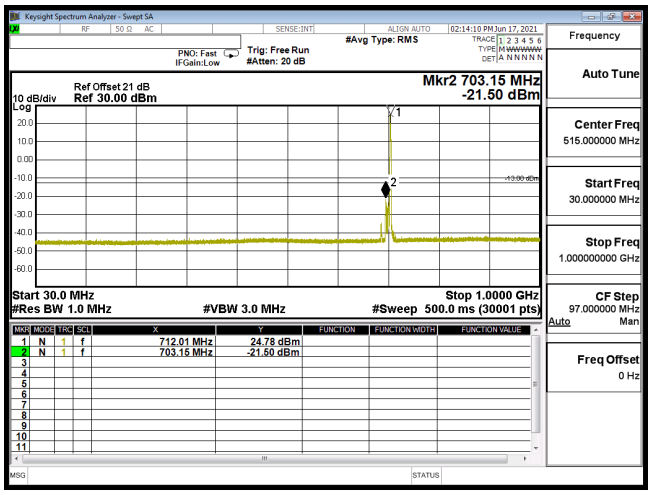


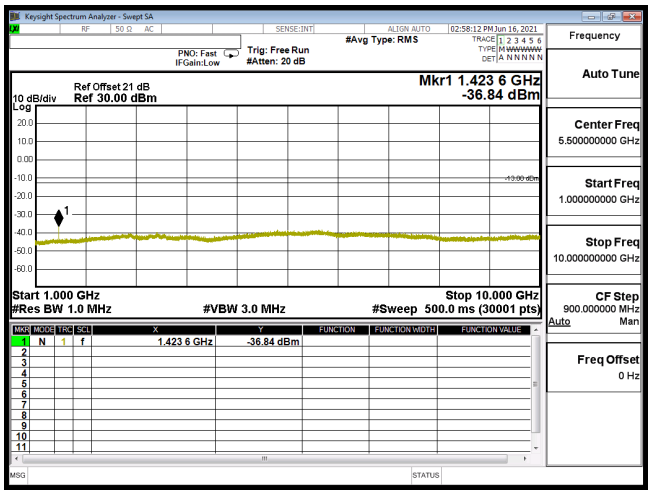
CSE B12 10M CH23095 QPSK(1,25) 30M-1G



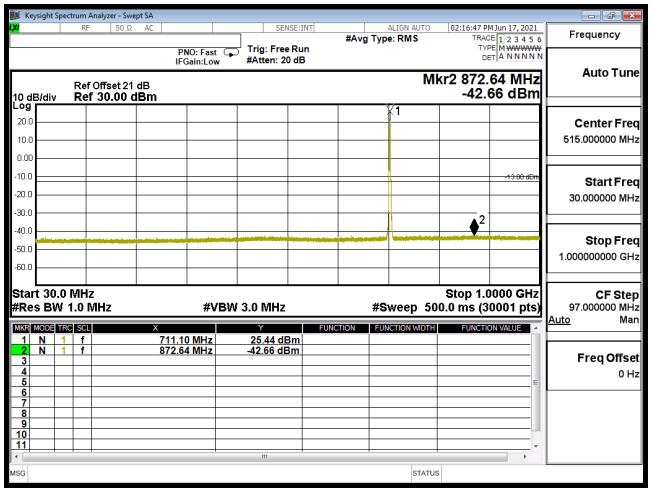
CSE B12 10M CH23095 QPSK(1,25) 1G-10G



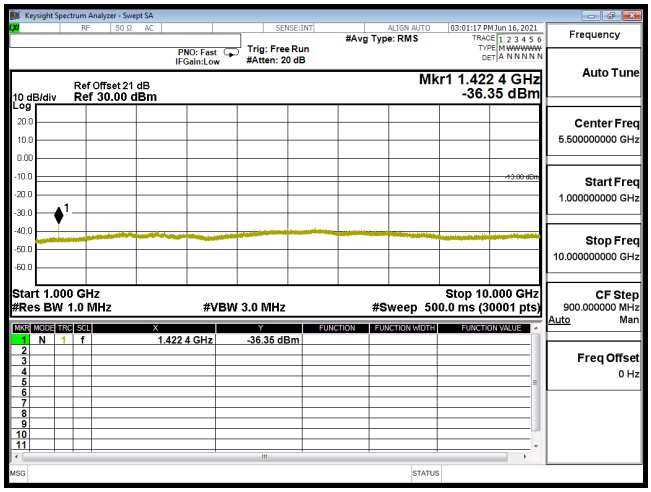
CSE B12 10M CH23095 16QAM(1,49) 30M-1G



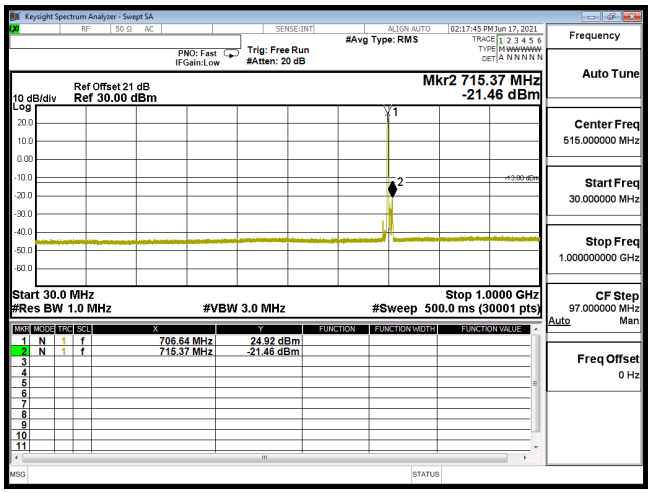
CSE B12 10M CH23095 16QAM(1,49) 1G-10G



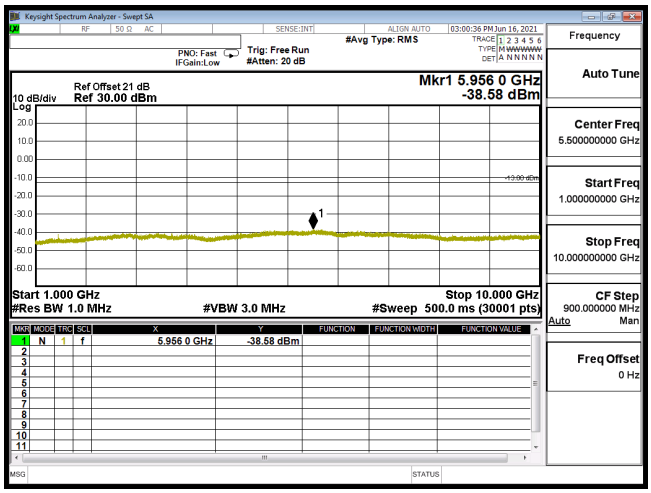
CSE B12 10M CH23130 QPSK(1,25) 30M-1G



CSE B12 10M CH23130 QPSK(1,25) 1G-10G

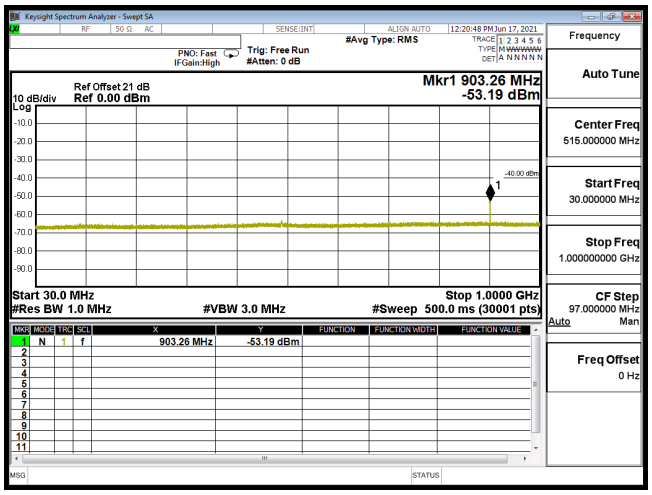


CSE B12 10M CH23130 16QAM(1,0) 30M-1G

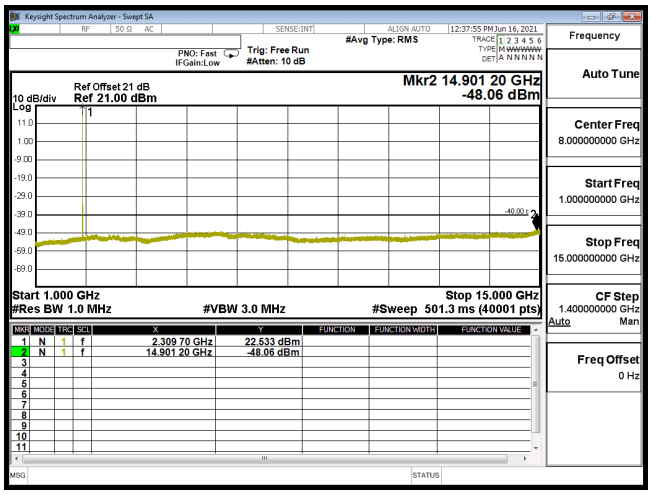


CSE B12 10M CH23130 16QAM(1,0) 1G-10G

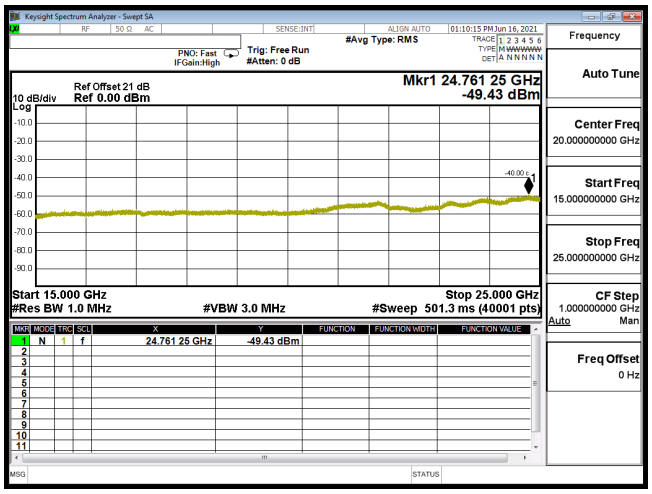
Product	WCDMA/LTE Mobile Phone		
Test Mode	Spurious Emission (Conducted)		
Date of Test	2021/06/17	Test Site	CTR
Test Condition	LTE-Band 30	Test Range	30MHz~25GHz



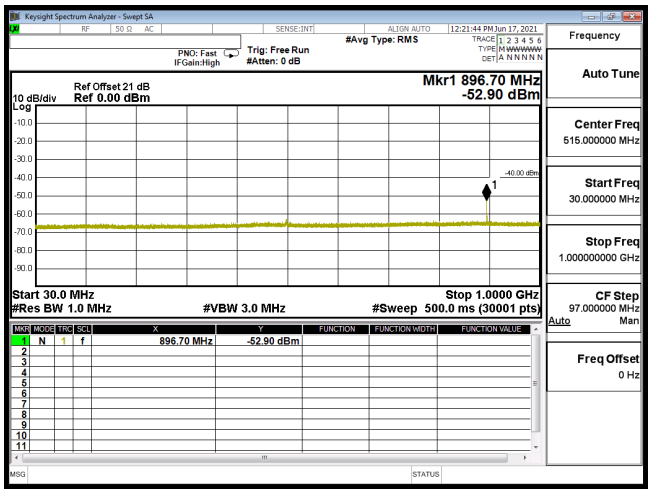
CSE B30 5M CH27685 QPSK(1,24) 30M-1G



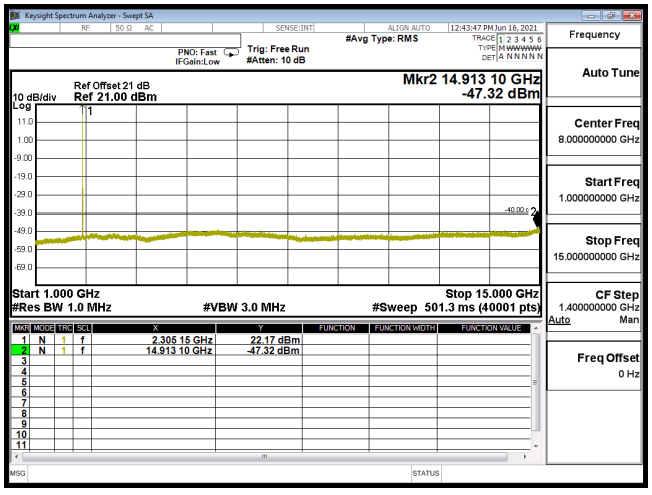
CSE B30 5M CH27685 QPSK(1,24) 1G-15G



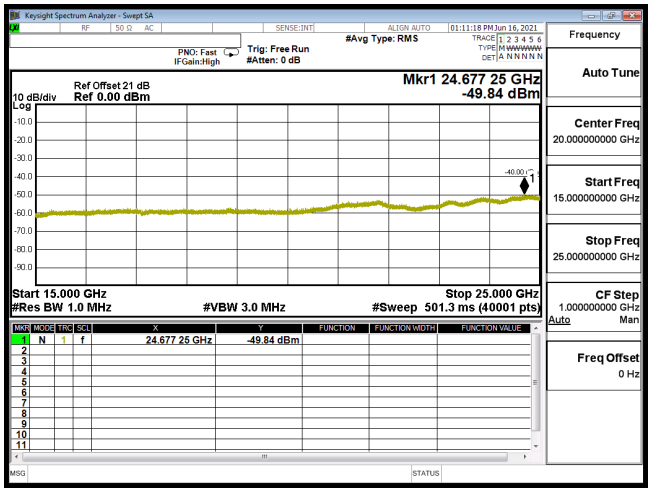
CSE B30 5M CH27685 QPSK(1,24) 15G-25G



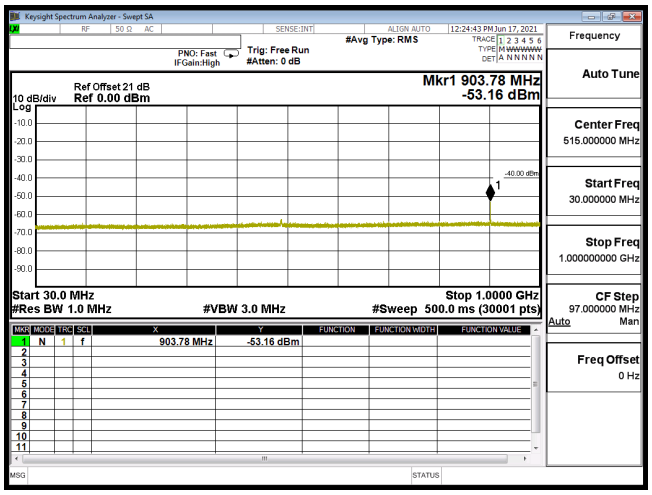
CSE B30 5M CH27685 16QAM(1,0) 30M-1G



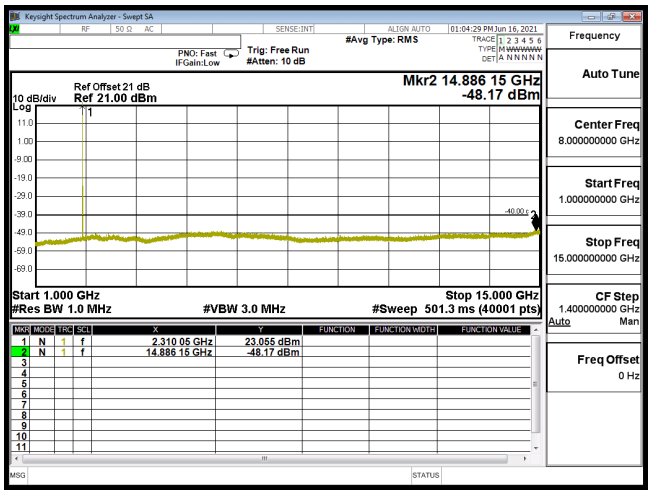
CSE B30 5M CH27685 16QAM(1,0) 1G-15G



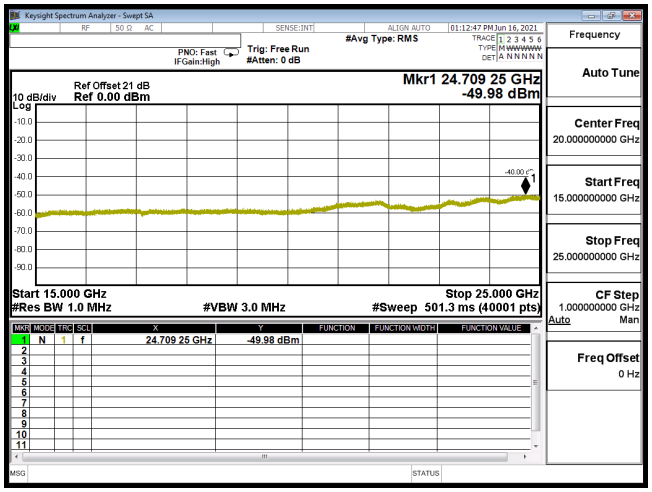
CSE B30 5M CH27685 16QAM(1,0) 15G-25G



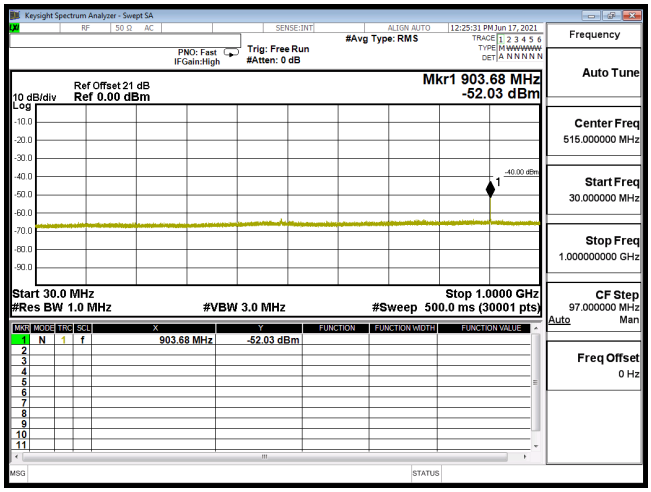
CSE B30 5M CH27710 QPSK(1,12) 30M-1G



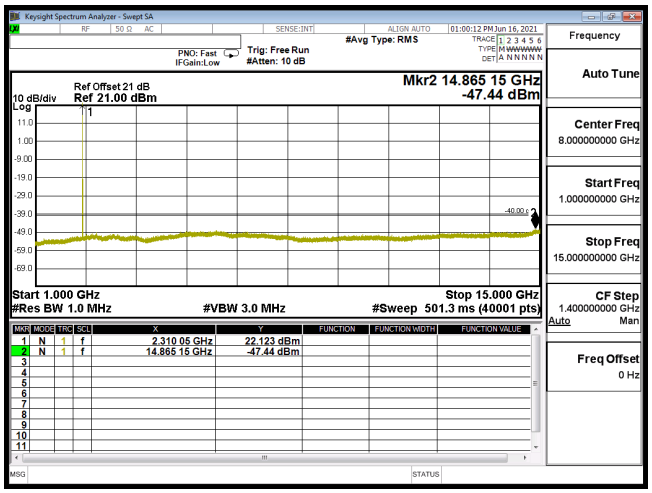
CSE B30 5M CH27710 QPSK(1,12) 1G-15G



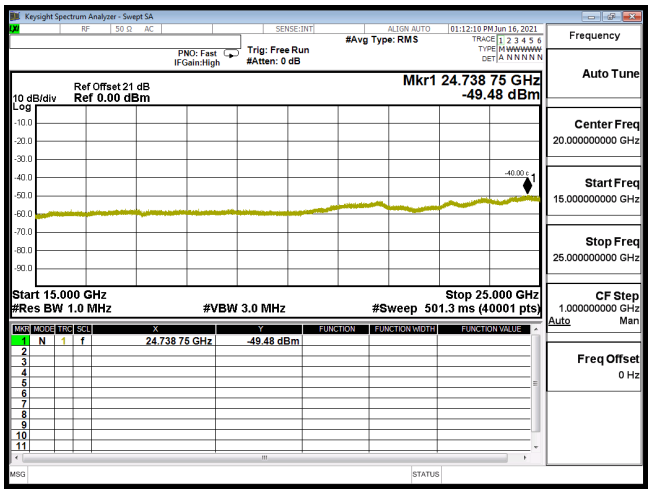
CSE B30 5M CH27710 QPSK(1,12) 15G-25G



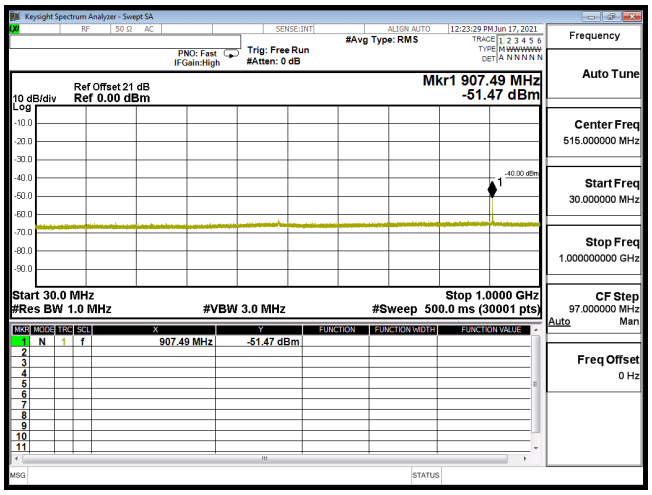
CSE B30 5M CH27710 16QAM(1,12) 30M-1G



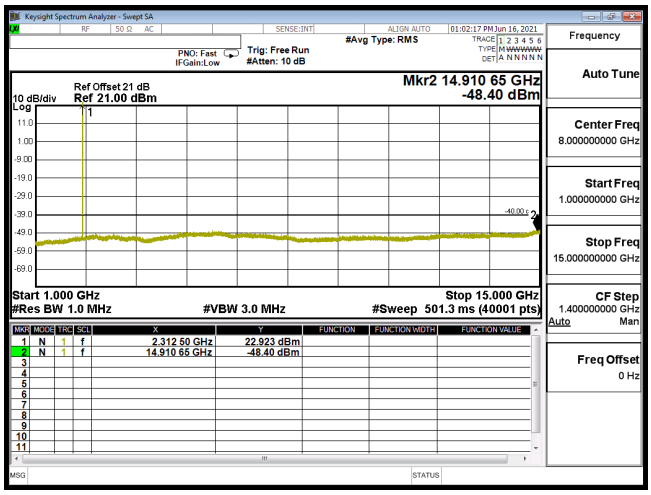
CSE B30 5M CH27710 16QAM(1,12) 1G-15G



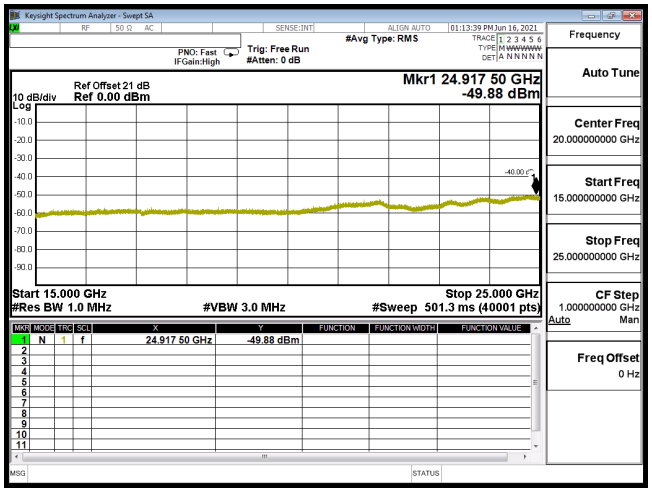
CSE B30 5M CH27710 16QAM(1,12) 15G-25G



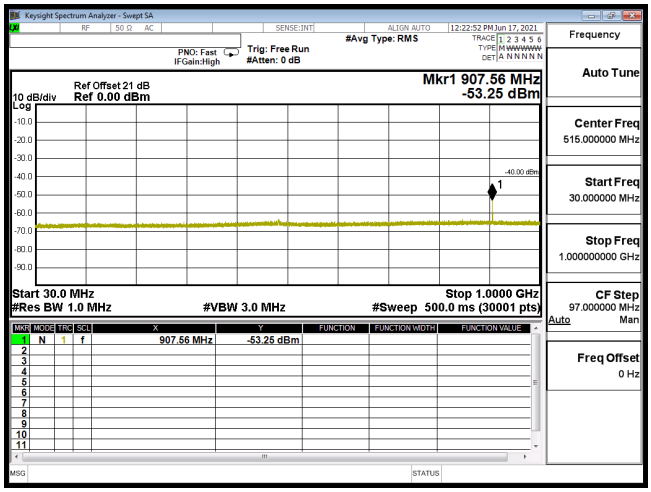
CSE B30 5M CH27735 QPSK(1,12) 30M-1G



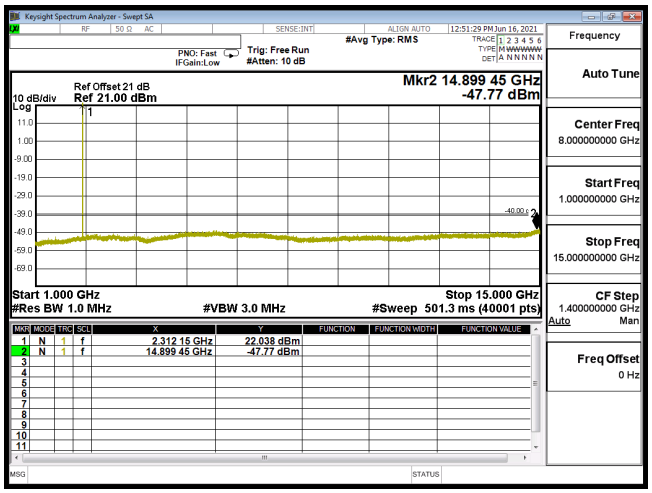
CSE B30 5M CH27735 QPSK(1,12) 1G-15G



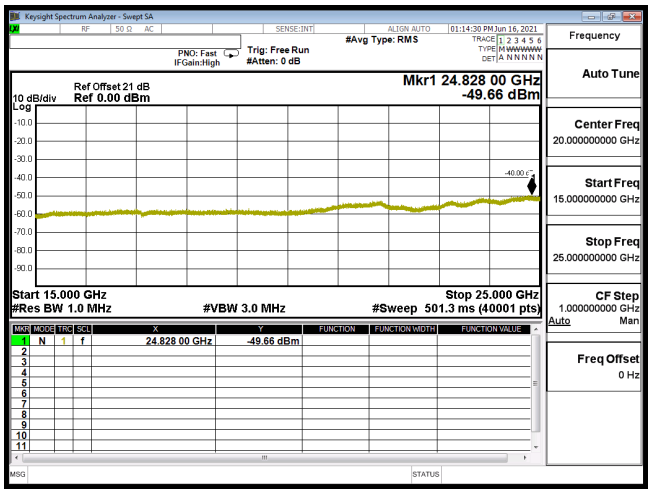
CSE B30 5M CH27735 QPSK(1,12) 15G-25G



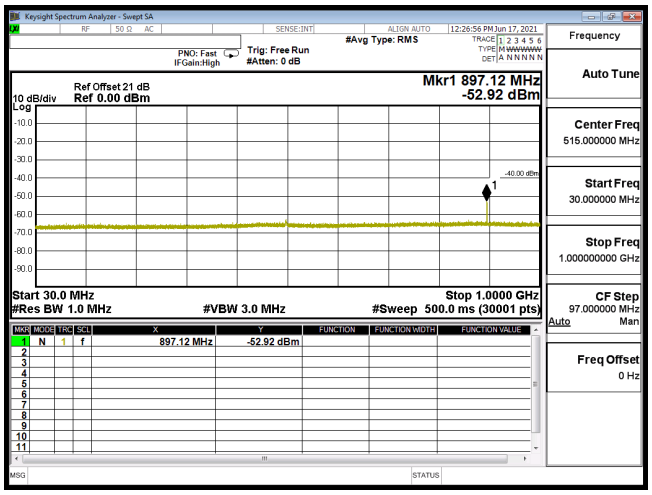
CSE B30 5M CH27735 16QAM(1,12) 30M-1G



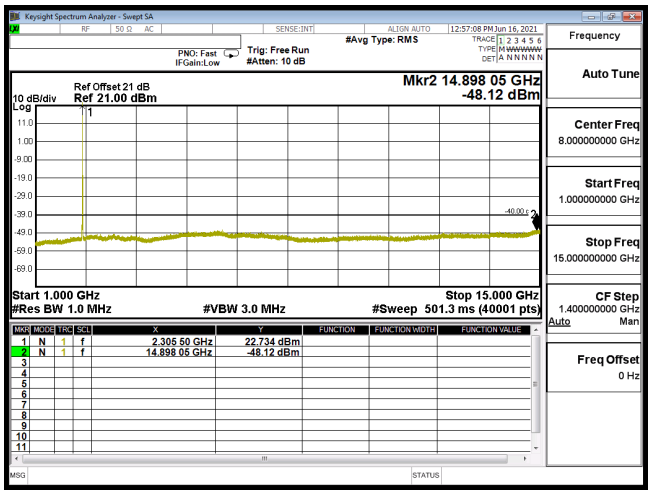
CSE B30 5M CH27735 16QAM(1,12) 1G-15G



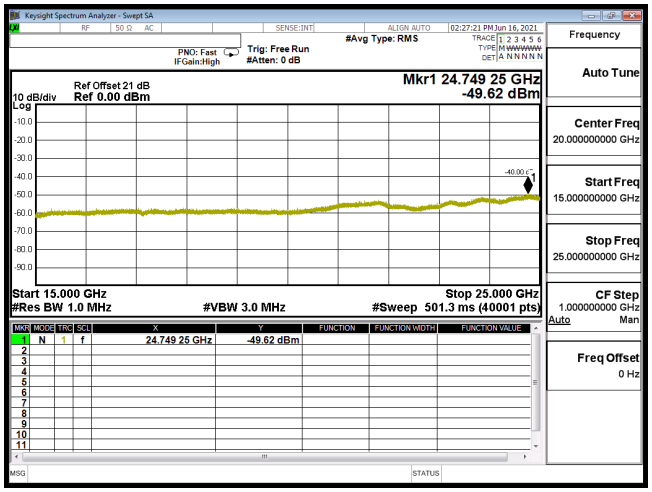
CSE B30 5M CH27735 16QAM(1,12) 15G-25G



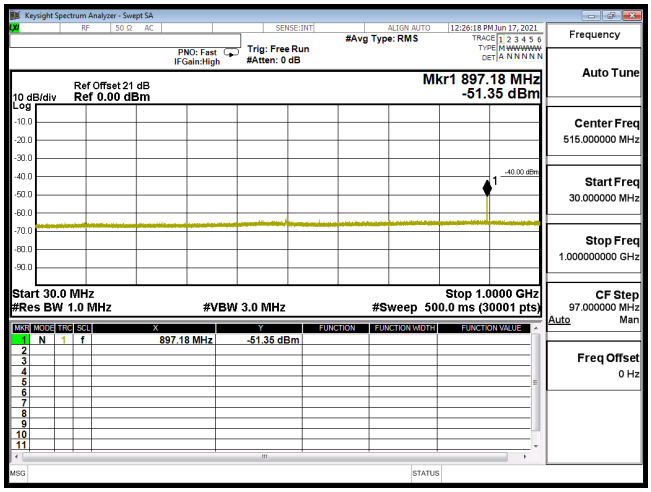
CSE B30 10M CH27710 QPSK(1,0) 30M-1G



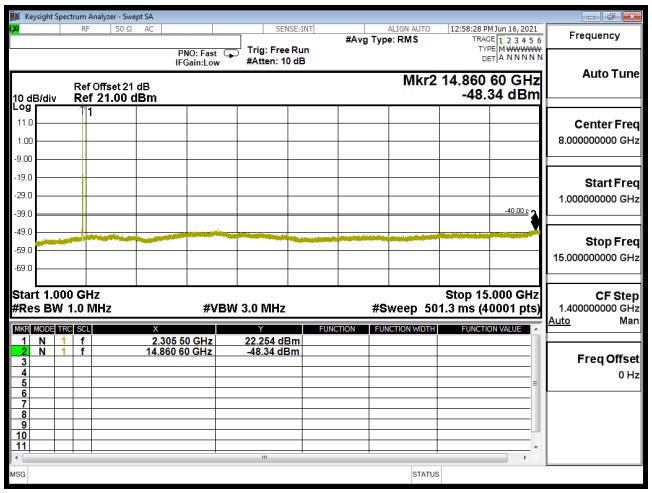
CSE B30 10M CH27710 QPSK(1,0) 1G-15G



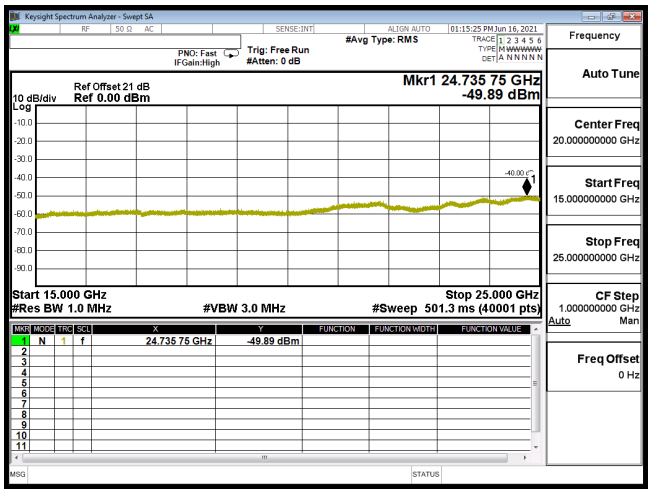
CSE B30 10M CH27710 QPSK(1,0) 15G-25G



CSE B30 10M CH27710 16QAM(1,0) 30M-1G



CSE B30 10M CH27710 16QAM(1,0) 1G-15G



CSE B30 10M CH27710 16QAM(1,0) 15G-25G

Product	WCDMA/LTE Mobile Phone		
Test Mode	Spurious Emission (Radiated) - Multi Band Dipole Antenna (STAF)		
Date of Test	2021/06/21	Test Site	Site3
Test Condition	Band 2 (1.4M) QPSK	Test Range	9kHz ~20GHz

Polarity	Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
	(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)
Low Channel: 18607, Frequency: 1850.7MHz RB/RB Offset: 1@5							
Horizontal	3701	-49.83	-62.19	2.73	12.63	-52.30	-13
Horizontal	5552	-39.33	-46.86	3.17	12.29	-37.74	-13
Horizontal	7403	-45.56	-50.01	3.88	11.89	-41.99	-13
Vertical	3701	-51.09	-63.77	2.73	12.63	-53.88	-13
Vertical	5552	-41.32	-49.48	3.17	12.29	-40.36	-13
Vertical	7403	-45.51	-49.92	3.88	11.89	-41.90	-13
Mid Channel: 18900, Frequency: 1880MHz RB/RB Offset: 1@0							
Horizontal	3760	-45.86	-57.63	2.74	12.63	-47.74	-13
Horizontal	5640	-38.95	-45.94	3.20	12.09	-37.05	-13
Horizontal	7520	-43.30	-47.93	3.85	12.00	-39.78	-13
Vertical	3760	-49.84	-62.02	2.74	12.63	-52.13	-13
Vertical	5640	-40.92	-48.64	3.20	12.09	-39.75	-13
Vertical	7520	-43.69	-48.14	3.85	12.00	-39.99	-13
High Channel: 19193, Frequency: 1909.3MHz RB/RB Offset: 1@0							
Horizontal	3819	-51.44	-62.76	2.76	12.64	-52.87	-13
Horizontal	5728	-39.78	-46.30	3.25	12.02	-37.54	-13
Horizontal	7637	-42.95	-47.65	3.85	12.00	-39.50	-13
Vertical	3819	-50.02	-61.99	2.76	12.64	-52.10	-13
Vertical	5728	-39.97	-46.76	3.25	12.02	-38.00	-13
Vertical	7637	-43.39	-48.12	3.85	12.00	-39.97	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. ERP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 8 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	WCDMA/LTE Mobile Phone		
Test Mode	Spurious Emission (Radiated) - Multi Band Dipole Antenna (STAF)		
Date of Test	2021/06/21	Test Site	Site3
Test Condition	Band 2 (3M) QPSK	Test Range	9kHz ~20GHz

Polarity	Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
	(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)
Low Channel: 18615, Frequency: 1851.5MHz RB/RB Offset: 1@14							
Horizontal	3703	-45.00	-57.33	2.73	12.63	-47.44	-13
Horizontal	5555	-40.59	-48.11	3.17	12.29	-38.99	-13
Horizontal	7406	-45.75	-50.21	3.88	11.90	-42.19	-13
Vertical	3703	-49.79	-62.44	2.73	12.63	-52.55	-13
Vertical	5555	-43.71	-51.90	3.17	12.29	-42.78	-13
Vertical	7406	-45.52	-49.92	3.88	11.90	-41.90	-13
Mid Channel: 18900, Frequency: 1880MHz RB/RB Offset: 1@14							
Horizontal	3760	-50.05	-61.79	2.74	12.63	-51.90	-13
Horizontal	5640	-38.52	-45.48	3.20	12.09	-36.59	-13
Horizontal	7520	-43.31	-47.92	3.85	12.00	-39.77	-13
Vertical	3760	-50.58	-62.73	2.74	12.63	-52.84	-13
Vertical	5640	-40.41	-48.06	3.20	12.09	-39.17	-13
Vertical	7520	-43.70	-48.18	3.85	12.00	-40.03	-13
High Channel: 19185, Frequency: 1908.5MHz RB/RB Offset: 1@7							
Horizontal	3817	-51.99	-63.31	2.75	12.64	-53.42	-13
Horizontal	5726	-37.07	-43.60	3.25	12.02	-34.83	-13
Horizontal	7634	-42.59	-47.28	3.85	12.00	-39.13	-13
Vertical	3817	-49.48	-61.45	2.75	12.64	-51.56	-13
Vertical	5726	-39.42	-46.22	3.25	12.02	-37.45	-13
Vertical	7634	-43.04	-47.77	3.85	12.00	-39.62	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. ERP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 8 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	WCDMA/LTE Mobile Phone		
Test Mode	Spurious Emission (Radiated) - Multi Band Dipole Antenna (STAF)		
Date of Test	2021/06/21	Test Site	Site3
Test Condition	Band 2 (5M) QPSK	Test Range	9kHz ~20GHz

Polarity	Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
	(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)
Low Channel: 18625, Frequency: 1852.5MHz RB/RB Offset: 1@24							
Horizontal	3705	-46.97	-59.26	2.73	12.63	-49.37	-13
Horizontal	5558	-38.96	-46.46	3.17	12.28	-37.35	-13
Horizontal	7410	-45.16	-49.63	3.88	11.90	-41.60	-13
Vertical	3705	-48.94	-61.56	2.73	12.63	-51.67	-13
Vertical	5558	-42.33	-50.54	3.17	12.28	-41.43	-13
Vertical	7410	-44.44	-48.84	3.88	11.90	-40.81	-13
Mid Channel: 18900, Frequency: 1880MHz RB/RB Offset: 1@24							
Horizontal	3760	-50.97	-62.69	2.74	12.63	-52.80	-13
Horizontal	5640	-39.87	-46.81	3.20	12.09	-37.92	-13
Horizontal	7520	-43.74	-48.34	3.85	12.00	-40.19	-13
Vertical	3760	-51.45	-63.59	2.74	12.63	-53.70	-13
Vertical	5640	-40.20	-47.81	3.20	12.09	-38.92	-13
Vertical	7520	-44.28	-48.77	3.85	12.00	-40.62	-13
High Channel: 19175, Frequency: 1907.5MHz RB/RB Offset: 1@12							
Horizontal	3815	-51.34	-62.66	2.75	12.64	-52.77	-13
Horizontal	5723	-38.58	-45.10	3.25	12.02	-36.33	-13
Horizontal	7630	-43.45	-48.12	3.85	12.00	-39.97	-13
Vertical	3815	-50.11	-62.06	2.75	12.64	-52.17	-13
Vertical	5723	-39.89	-46.69	3.25	12.02	-37.92	-13
Vertical	7630	-44.89	-49.63	3.85	12.00	-41.48	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. ERP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 8 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	WCDMA/LTE Mobile Phone		
Test Mode	Spurious Emission (Radiated) - Multi Band Dipole Antenna (STAF)		
Date of Test	2021/06/21	Test Site	Site3
Test Condition	Band 2 (10M) QPSK	Test Range	9kHz ~20GHz

Polarity	Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
	(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)
Low Channel: 18650, Frequency: 1855MHz RB/RB Offset: 1@25							
Horizontal	3710	-46.70	-58.99	2.74	12.63	-49.10	-13
Horizontal	5565	-39.15	-46.63	3.18	12.26	-37.54	-13
Horizontal	7420	-44.26	-48.75	3.87	11.91	-40.71	-13
Vertical	3710	-48.77	-61.38	2.74	12.63	-51.49	-13
Vertical	5565	-41.35	-49.55	3.18	12.26	-40.46	-13
Vertical	7420	-44.21	-48.62	3.87	11.91	-40.58	-13
Mid Channel: 18900, Frequency: 1880MHz RB/RB Offset: 1@25							
Horizontal	3760	-48.39	-60.15	2.74	12.63	-50.26	-13
Horizontal	5640	-37.98	-44.96	3.20	12.09	-36.07	-13
Horizontal	7520	-44.75	-49.37	3.85	12.00	-41.22	-13
Vertical	3760	-49.46	-61.63	2.74	12.63	-51.74	-13
Vertical	5640	-42.32	-50.01	3.20	12.09	-41.12	-13
Vertical	7520	-44.38	-48.84	3.85	12.00	-40.69	-13
High Channel: 19150, Frequency: 1905MHz RB/RB Offset: 1@25							
Horizontal	3810	-49.38	-60.71	2.75	12.64	-50.82	-13
Horizontal	5715	-39.16	-45.69	3.25	12.03	-36.91	-13
Horizontal	7620	-45.64	-50.24	3.85	12.00	-42.09	-13
Vertical	3810	-49.32	-61.23	2.75	12.64	-51.34	-13
Vertical	5715	-43.11	-49.91	3.25	12.03	-41.13	-13
Vertical	7620	-45.13	-49.87	3.85	12.00	-41.72	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. ERP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 8 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	WCDMA/LTE Mobile Phone		
Test Mode	Spurious Emission (Radiated) - Multi Band Dipole Antenna (STAF)		
Date of Test	2021/06/21	Test Site	Site3
Test Condition	Band 2 (15M) QPSK	Test Range	9kHz ~20GHz

Polarity	Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
	(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)
Low Channel: 18675, Frequency: 1857.5MHz RB/RB Offset: 1@37							
Horizontal	3715	-40.44	-52.68	2.74	12.63	-42.79	-13
Horizontal	5573	-37.14	-44.58	3.18	12.24	-35.51	-13
Horizontal	7430	-44.61	-49.11	3.87	11.92	-41.06	-13
Vertical	3715	-45.85	-58.42	2.74	12.63	-48.53	-13
Vertical	5573	-41.48	-49.71	3.18	12.24	-40.64	-13
Vertical	7430	-42.88	-47.28	3.87	11.92	-39.23	-13
Mid Channel: 18900, Frequency: 1880MHz RB/RB Offset: 1@37							
Horizontal	3760	-48.43	-60.20	2.74	12.63	-50.31	-13
Horizontal	5640	-37.24	-44.22	3.20	12.09	-35.33	-13
Horizontal	7520	-44.67	-49.29	3.85	12.00	-41.14	-13
Vertical	3760	-50.17	-62.35	2.74	12.63	-52.46	-13
Vertical	5640	-42.21	-49.90	3.20	12.09	-41.01	-13
Vertical	7520	-44.49	-48.95	3.85	12.00	-40.80	-13
High Channel: 19125, Frequency: 1902.5MHz RB/RB Offset: 1@0							
Horizontal	3805	-43.82	-55.25	2.75	12.64	-45.36	-13
Horizontal	5708	-37.26	-43.86	3.24	12.04	-35.07	-13
Horizontal	7610	-44.53	-49.03	3.85	12.00	-40.88	-13
Vertical	3805	-48.09	-59.99	2.75	12.64	-50.10	-13
Vertical	5708	-42.22	-49.19	3.24	12.04	-40.40	-13
Vertical	7610	-43.61	-48.31	3.85	12.00	-40.16	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. ERP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 8 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	WCDMA/LTE Mobile Phone		
Test Mode	Spurious Emission (Radiated) - Multi Band Dipole Antenna (STAF)		
Date of Test	2021/06/21	Test Site	Site3
Test Condition	Band 2 (20M) QPSK	Test Range	9kHz ~20GHz

Polarity	Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
	(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)
Low Channel: 18700, Frequency: 1860MHz RB/RB Offset: 1@50							
Horizontal	3720	-42.41	-54.59	2.74	12.63	-44.70	-13
Horizontal	5580	-37.65	-45.06	3.18	12.23	-36.01	-13
Horizontal	7440	-43.64	-48.17	3.87	11.93	-40.10	-13
Vertical	3720	-47.13	-59.65	2.74	12.63	-49.76	-13
Vertical	5580	-41.62	-49.87	3.18	12.23	-40.82	-13
Vertical	7440	-43.02	-47.42	3.87	11.93	-39.35	-13
Mid Channel: 18900, Frequency: 1880MHz RB/RB Offset: 1@50							
Horizontal	3760	-47.50	-59.27	2.74	12.63	-49.38	-13
Horizontal	5640	-39.50	-46.48	3.20	12.09	-37.59	-13
Horizontal	7520	-43.85	-48.47	3.85	12.00	-40.32	-13
Vertical	3760	-50.43	-62.60	2.74	12.63	-52.71	-13
Vertical	5640	-40.19	-47.88	3.20	12.09	-38.99	-13
Vertical	7520	-44.15	-48.61	3.85	12.00	-40.46	-13
High Channel: 19100, Frequency: 1900MHz RB/RB Offset: 1@50							
Horizontal	3800	-42.94	-54.29	2.75	12.64	-44.40	-13
Horizontal	5700	-40.82	-47.36	3.24	12.04	-38.56	-13
Horizontal	7600	-44.00	-48.47	3.85	12.00	-40.32	-13
Vertical	3800	-47.77	-59.60	2.75	12.64	-49.71	-13
Vertical	5700	-41.80	-48.61	3.24	12.04	-39.81	-13
Vertical	7600	-45.75	-50.51	3.85	12.00	-42.36	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. ERP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 8 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	WCDMA/LTE Mobile Phone		
Test Mode	Spurious Emission (Radiated) - Multi Band Dipole Antenna (STAF)		
Date of Test	2021/06/21	Test Site	Site3
Test Condition	Band 4 (1.4M) QPSK	Test Range	9kHz ~20GHz

Polarity	Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
	(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)
Low Channel: 19957, Frequency: 1710.7MHz RB/RB Offset: 1@0							
Horizontal	3421	-37.36	-50.93	2.52	12.58	-40.87	-13
Horizontal	5132	-52.89	-60.70	3.29	12.46	-51.53	-13
Horizontal	6843	-42.99	-47.18	3.64	11.50	-39.32	-13
Vertical	3421	-39.24	-53.00	2.52	12.58	-42.94	-13
Vertical	5132	-51.17	-59.65	3.29	12.46	-50.48	-13
Vertical	6843	-44.28	-48.80	3.64	11.50	-40.94	-13
Mid Channel: 20175, Frequency: 1732.5MHz RB/RB Offset: 3@0							
Horizontal	3465	-39.21	-52.19	2.53	12.60	-42.12	-13
Horizontal	5198	-48.78	-57.27	3.11	12.94	-47.44	-13
Horizontal	6930	-42.48	-46.78	3.65	11.50	-38.93	-13
Vertical	3465	-42.24	-55.71	2.53	12.60	-45.64	-13
Vertical	5198	-47.55	-56.44	3.11	12.94	-46.61	-13
Vertical	6930	-44.68	-49.23	3.65	11.50	-41.38	-13
High Channel: 20393, Frequency: 1754.3MHz RB/RB Offset: 1@2							
Horizontal	3509	-35.98	-48.31	2.66	12.60	-38.37	-13
Horizontal	5263	-45.18	-53.51	3.07	13.00	-43.58	-13
Horizontal	7017	-40.17	-44.41	3.91	11.50	-36.82	-13
Vertical	3509	-38.04	-51.01	2.66	12.60	-41.07	-13
Vertical	5263	-42.70	-51.97	3.07	13.00	-42.04	-13
Vertical	7017	-45.19	-49.47	3.91	11.50	-41.88	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. ERP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 8 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	WCDMA/LTE Mobile Phone		
Test Mode	Spurious Emission (Radiated) - Multi Band Dipole Antenna (STAF)		
Date of Test	2021/06/21	Test Site	Site3
Test Condition	Band 4 (3M) QPSK	Test Range	9kHz ~20GHz

Polarity	Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
	(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)
Low Channel: 19965, Frequency: 1711.5MHz RB/RB Offset: 1@0							
Horizontal	3423	-36.46	-50.03	2.52	12.58	-39.97	-13
Horizontal	5135	-51.76	-59.60	3.28	12.48	-50.40	-13
Horizontal	6846	-41.97	-46.16	3.64	11.50	-38.30	-13
Vertical	3423	-38.13	-51.89	2.52	12.58	-41.83	-13
Vertical	5135	-49.58	-58.09	3.28	12.48	-48.89	-13
Vertical	6846	-47.81	-52.33	3.64	11.50	-44.47	-13
Mid Channel: 20175, Frequency: 1732.5MHz RB/RB Offset: 1@0							
Horizontal	3465	-37.69	-50.70	2.53	12.60	-40.63	-13
Horizontal	5198	-49.46	-57.95	3.11	12.94	-48.12	-13
Horizontal	6930	-41.79	-46.08	3.65	11.50	-38.23	-13
Vertical	3465	-39.82	-53.30	2.53	12.60	-43.23	-13
Vertical	5198	-48.10	-57.00	3.11	12.94	-47.17	-13
Vertical	6930	-47.95	-52.49	3.65	11.50	-44.64	-13
High Channel: 20385, Frequency: 1753.5MHz RB/RB Offset: 1@0							
Horizontal	3507	-35.87	-48.23	2.66	12.60	-38.29	-13
Horizontal	5261	-47.14	-55.50	3.06	13.00	-45.56	-13
Horizontal	7014	-39.29	-43.59	3.90	11.50	-35.99	-13
Vertical	3507	-38.63	-51.66	2.66	12.60	-41.72	-13
Vertical	5261	-44.35	-53.60	3.06	13.00	-43.66	-13
Vertical	7014	-46.80	-51.14	3.90	11.50	-43.54	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. ERP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 8 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	WCDMA/LTE Mobile Phone		
Test Mode	Spurious Emission (Radiated) - Multi Band Dipole Antenna (STAF)		
Date of Test	2021/06/21	Test Site	Site3
Test Condition	Band 4 (5M) QPSK	Test Range	9kHz ~20GHz

Polarity	Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
	(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)
Low Channel: 19975, Frequency: 1712.5MHz RB/RB Offset: 1@12							
Horizontal	3425	-36.82	-50.33	2.52	12.58	-40.27	-13
Horizontal	5138	-51.08	-58.95	3.28	12.50	-49.72	-13
Horizontal	6850	-43.31	-47.50	3.64	11.50	-39.64	-13
Vertical	3425	-38.70	-52.43	2.52	12.58	-42.37	-13
Vertical	5138	-45.92	-54.44	3.28	12.50	-45.21	-13
Vertical	6850	-43.27	-47.79	3.64	11.50	-39.93	-13
Mid Channel: 20175, Frequency: 1732.5MHz RB/RB Offset: 1@0							
Horizontal	3465	-36.72	-49.76	2.53	12.60	-39.69	-13
Horizontal	5198	-44.49	-52.98	3.11	12.94	-43.15	-13
Horizontal	6930	-44.05	-48.32	3.65	11.50	-40.47	-13
Vertical	3465	-40.73	-54.23	2.53	12.60	-44.16	-13
Vertical	5198	-46.97	-53.49	3.11	12.94	-43.66	-13
Vertical	6930	-46.08	-51.44	3.65	11.50	-43.59	-13
High Channel: 20375, Frequency: 1752.5MHz RB/RB Offset: 1@0							
Horizontal	3505	-34.79	-47.18	2.65	12.60	-37.23	-13
Horizontal	5258	-47.36	-55.76	3.06	13.01	-45.81	-13
Horizontal	7010	-41.92	-46.28	3.89	11.50	-38.67	-13
Vertical	3505	-38.52	-51.62	2.65	12.60	-41.67	-13
Vertical	5258	-44.31	-53.54	3.06	13.01	-43.59	-13
Vertical	7010	-45.98	-50.37	3.89	11.50	-42.76	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. ERP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 8 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	WCDMA/LTE Mobile Phone		
Test Mode	Spurious Emission (Radiated) - Multi Band Dipole Antenna (STAF)		
Date of Test	2021/06/21	Test Site	Site3
Test Condition	Band 4 (10M) QPSK	Test Range	9kHz ~20GHz

Polarity	Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
	(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)
Low Channel: 20000, Frequency: 1715MHz RB/RB Offset: 1@0							
Horizontal	3430	-36.75	-50.31	2.52	12.58	-40.25	-13
Horizontal	5145	-52.53	-60.47	3.25	12.55	-51.17	-13
Horizontal	6860	-43.01	-47.20	3.64	11.50	-39.34	-13
Vertical	3430	-38.58	-52.34	2.52	12.58	-42.28	-13
Vertical	5145	-48.57	-57.18	3.25	12.55	-47.88	-13
Vertical	6860	-43.87	-48.39	3.64	11.50	-40.53	-13
Mid Channel: 20175, Frequency: 1732.5MHz RB/RB Offset: 1@25							
Horizontal	3465	-37.88	-50.86	2.53	12.60	-40.79	-13
Horizontal	5198	-50.84	-59.33	3.11	12.94	-49.50	-13
Horizontal	6930	-43.08	-47.39	3.65	11.50	-39.54	-13
Vertical	3465	-40.67	-54.13	2.53	12.60	-44.06	-13
Vertical	5198	-47.62	-56.51	3.11	12.94	-46.68	-13
Vertical	6930	-44.97	-49.52	3.65	11.50	-41.67	-13
High Channel: 20350, Frequency: 1750MHz RB/RB Offset: 1@25							
Horizontal	3500	-34.69	-47.09	2.64	12.60	-37.13	-13
Horizontal	5250	-48.78	-57.20	3.06	13.03	-47.23	-13
Horizontal	7000	-39.55	-43.95	3.86	11.50	-36.31	-13
Vertical	3500	-38.67	-51.79	2.64	12.60	-41.83	-13
Vertical	5250	-44.28	-53.53	3.06	13.03	-43.56	-13
Vertical	7000	-43.96	-48.39	3.86	11.50	-40.75	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. ERP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 8 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	WCDMA/LTE Mobile Phone		
Test Mode	Spurious Emission (Radiated) - Multi Band Dipole Antenna (STAF)		
Date of Test	2021/06/21	Test Site	Site3
Test Condition	Band 4 (15M) QPSK	Test Range	9kHz ~20GHz

Polarity	Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
	(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)
Low Channel: 20025, Frequency: 1717.5MHz RB/RB Offset: 1@0							
Horizontal	3435	-35.87	-49.42	2.52	12.59	-39.36	-13
Horizontal	5153	-51.84	-59.86	3.23	12.61	-50.48	-13
Horizontal	6870	-42.79	-46.98	3.64	11.50	-39.12	-13
Vertical	3435	-39.43	-53.18	2.52	12.59	-43.12	-13
Vertical	5153	-47.20	-55.89	3.23	12.61	-46.51	-13
Vertical	6870	-46.58	-51.10	3.64	11.50	-43.24	-13
Mid Channel: 20175, Frequency: 1732.5MHz RB/RB Offset: 1@74							
Horizontal	3465	-36.16	-48.96	2.53	12.60	-38.89	-13
Horizontal	5198	-44.31	-52.73	3.11	12.94	-42.90	-13
Horizontal	6930	-40.98	-45.41	3.65	11.50	-37.56	-13
Vertical	3465	-39.60	-52.98	2.53	12.60	-42.91	-13
Vertical	5198	-42.38	-51.34	3.11	12.94	-41.51	-13
Vertical	6930	-46.74	-51.32	3.65	11.50	-43.47	-13
High Channel: 20325, Frequency: 1747.5MHz RB/RB Offset: 1@0							
Horizontal	3495	-35.22	-47.89	2.62	12.60	-37.91	-13
Horizontal	5243	-43.14	-51.70	3.06	13.05	-41.71	-13
Horizontal	6990	-40.12	-44.39	3.83	11.50	-36.72	-13
Vertical	3495	-39.62	-52.89	2.62	12.60	-42.91	-13
Vertical	5243	-41.96	-51.10	3.06	13.05	-41.11	-13
Vertical	6990	-47.16	-51.57	3.83	11.50	-43.90	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. ERP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 8 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	WCDMA/LTE Mobile Phone		
Test Mode	Spurious Emission (Radiated) - Multi Band Dipole Antenna (STAF)		
Date of Test	2021/06/21	Test Site	Site3
Test Condition	Band 4 (20M) QPSK	Test Range	9kHz ~20GHz

Polarity	Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
	(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)
Low Channel: 20050, Frequency: 1720MHz RB/RB Offset: 1@50							
Horizontal	3440	-36.65	-49.96	2.52	12.59	-39.89	-13
Horizontal	5160	-52.51	-60.61	3.21	12.66	-51.16	-13
Horizontal	6880	-40.93	-45.11	3.65	11.50	-37.26	-13
Vertical	3440	-38.48	-52.12	2.52	12.59	-42.05	-13
Vertical	5160	-51.54	-60.19	3.21	12.66	-50.74	-13
Vertical	6880	-46.90	-51.41	3.65	11.50	-43.56	-13
Mid Channel: 20175, Frequency: 1732.5MHz RB/RB Offset: 1@50							
Horizontal	3465	-37.83	-50.80	2.53	12.60	-40.73	-13
Horizontal	5198	-50.22	-58.71	3.11	12.94	-48.88	-13
Horizontal	6930	-41.52	-45.83	3.65	11.50	-37.98	-13
Vertical	3465	-40.77	-54.24	2.53	12.60	-44.17	-13
Vertical	5198	-46.80	-55.69	3.11	12.94	-45.86	-13
Vertical	6930	-47.74	-52.29	3.65	11.50	-44.44	-13
High Channel: 20300, Frequency: 1745MHz RB/RB Offset: 1@0							
Horizontal	3490	-37.44	-50.24	2.61	12.60	-40.25	-13
Horizontal	5235	-50.57	-59.21	3.06	13.06	-49.20	-13
Horizontal	6980	-40.56	-44.78	3.80	11.50	-37.08	-13
Vertical	3490	-40.11	-53.45	2.61	12.60	-43.46	-13
Vertical	5235	-47.04	-56.14	3.06	13.06	-46.13	-13
Vertical	6980	-46.57	-50.99	3.80	11.50	-43.29	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. ERP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 8 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	WCDMA/LTE Mobile Phone		
Test Mode	Spurious Emission (Radiated) - Multi Band Dipole Antenna (STAF)		
Date of Test	2021/06/21	Test Site	Site3
Test Condition	Band 5 (1.4M) QPSK	Test Range	9kHz ~10GHz

Polarity	Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
	(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)
Low Channel: 20407, Frequency: 824.7MHz RB/RB Offset: 3@3							
Horizontal	1649	-41.06	-58.33	1.79	10.07	-50.05	-13
Horizontal	2474	-47.53	-63.47	2.99	12.93	-53.52	-13
Horizontal	3299	-50.19	-63.87	2.48	12.52	-53.83	-13
Vertical	1649	-44.51	-61.70	1.79	10.07	-53.42	-13
Vertical	2474	-50.34	-65.54	2.99	12.93	-55.59	-13
Vertical	3299	-50.98	-64.98	2.48	12.52	-54.94	-13
Mid Channel: 20525, Frequency: 836.5MHz RB/RB Offset: 3@0							
Horizontal	1673	-39.73	-56.81	1.81	10.10	-48.52	-13
Horizontal	2510	-47.32	-63.56	3.03	13.08	-53.51	-13
Horizontal	3346	-48.85	-62.60	2.50	12.54	-52.55	-13
Vertical	1673	-42.94	-59.81	1.81	10.10	-51.52	-13
Vertical	2510	-50.73	-66.32	3.03	13.08	-56.27	-13
Vertical	3346	-50.63	-64.59	2.50	12.54	-54.54	-13
High Channel: 20643, Frequency: 848.3MHz RB/RB Offset: 1@0							
Horizontal	1697	-34.28	-51.18	1.82	10.13	-42.87	-13
Horizontal	2545	-46.64	-62.72	2.95	12.99	-52.68	-13
Horizontal	3393	-49.89	-63.72	2.51	12.57	-53.66	-13
Vertical	1697	-41.55	-58.08	1.82	10.13	-49.77	-13
Vertical	2545	-50.19	-65.72	2.95	12.99	-55.68	-13
Vertical	3393	-50.72	-64.63	2.51	12.57	-54.57	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. ERP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 4 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	WCDMA/LTE Mobile Phone		
Test Mode	Spurious Emission (Radiated) - Multi Band Dipole Antenna (STAF)		
Date of Test	2021/06/21	Test Site	Site3
Test Condition	Band 5 (3M) QPSK	Test Range	9kHz ~10GHz

Polarity	Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
	(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)
Low Channel: 20415, Frequency: 825.5MHz RB/RB Offset: 1@0							
Horizontal	1651	-43.46	-60.74	1.79	10.08	-52.46	-13
Horizontal	2477	-48.50	-64.43	2.99	12.95	-54.47	-13
Horizontal	3302	-48.99	-62.67	2.48	12.52	-52.63	-13
Vertical	1651	-44.37	-61.59	1.79	10.08	-53.31	-13
Vertical	2477	-50.89	-66.08	2.99	12.95	-56.12	-13
Vertical	3302	-51.46	-65.47	2.48	12.52	-55.43	-13
Mid Channel: 20525, Frequency: 836.5MHz RB/RB Offset: 1@0							
Horizontal	1673	-38.50	-55.60	1.81	10.10	-47.31	-13
Horizontal	2510	-48.24	-64.50	3.03	13.08	-54.45	-13
Horizontal	3346	-49.92	-63.67	2.50	12.54	-53.62	-13
Vertical	1673	-41.75	-58.64	1.81	10.10	-50.35	-13
Vertical	2510	-50.81	-66.40	3.03	13.08	-56.35	-13
Vertical	3346	-51.41	-65.37	2.50	12.54	-55.32	-13
High Channel: 20635, Frequency: 847.5MHz RB/RB Offset: 1@0							
Horizontal	1695	-34.84	-51.76	1.82	10.13	-43.46	-13
Horizontal	2543	-48.37	-64.47	2.96	12.99	-54.43	-13
Horizontal	3390	-49.16	-62.98	2.51	12.57	-52.92	-13
Vertical	1695	-40.34	-56.91	1.82	10.13	-48.61	-13
Vertical	2543	-50.25	-65.78	2.96	12.99	-55.74	-13
Vertical	3390	-50.63	-64.55	2.51	12.57	-54.49	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. ERP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 4 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	WCDMA/LTE Mobile Phone		
Test Mode	Spurious Emission (Radiated) - Multi Band Dipole Antenna (STAF)		
Date of Test	2021/06/21	Test Site	Site3
Test Condition	Band 5 (5M) QPSK	Test Range	9kHz ~10GHz

Polarity	Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
	(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)
Low Channel: 20425, Frequency: 826.5MHz RB/RB Offset: 1@12							
Horizontal	1653	-37.88	-55.12	1.79	10.08	-46.84	-13
Horizontal	2480	-46.38	-62.38	3.00	12.97	-52.41	-13
Horizontal	3306	-50.86	-64.55	2.49	12.53	-54.51	-13
Vertical	1653	-44.00	-61.14	1.79	10.08	-52.86	-13
Vertical	2480	-49.65	-64.92	3.00	12.97	-54.95	-13
Vertical	3306	-50.81	-64.80	2.49	12.53	-54.76	-13
Mid Channel: 20525, Frequency: 836.5MHz RB/RB Offset: 1@24							
Horizontal	1673	-42.41	-59.45	1.81	10.10	-51.16	-13
Horizontal	2510	-42.98	-59.19	3.03	13.08	-49.14	-13
Horizontal	3346	-48.87	-62.64	2.50	12.54	-52.59	-13
Vertical	1673	-44.35	-61.14	1.81	10.10	-52.85	-13
Vertical	2510	-48.99	-64.57	3.03	13.08	-54.52	-13
Vertical	3346	-50.63	-64.57	2.50	12.54	-54.52	-13
High Channel: 20625, Frequency: 846.5MHz RB/RB Offset: 1@0							
Horizontal	1693	-36.46	-53.41	1.82	10.12	-45.11	-13
Horizontal	2540	-49.28	-65.41	2.96	13.00	-55.37	-13
Horizontal	3386	-50.60	-64.43	2.51	12.56	-54.37	-13
Vertical	1693	-42.10	-58.73	1.82	10.12	-50.43	-13
Vertical	2540	-51.37	-66.90	2.96	13.00	-56.86	-13
Vertical	3386	-51.56	-65.47	2.51	12.56	-55.41	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. ERP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 4 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	WCDMA/LTE Mobile Phone		
Test Mode	Spurious Emission (Radiated) - Multi Band Dipole Antenna (STAF)		
Date of Test	2021/06/21	Test Site	Site3
Test Condition	Band 5 (10M) QPSK	Test Range	9kHz ~10GHz

Polarity	Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
	(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)
Low Channel: 20450, Frequency: 829MHz RB/RB Offset: 1@49							
Horizontal	1658	-36.71	-53.84	1.80	10.08	-45.55	-13
Horizontal	2487	-51.63	-67.73	3.02	13.02	-57.73	-13
Horizontal	3316	-51.20	-64.91	2.49	12.53	-54.87	-13
Vertical	1658	-41.57	-58.52	1.80	10.08	-50.23	-13
Vertical	2487	-51.98	-67.38	3.02	13.02	-57.38	-13
Vertical	3316	-51.50	-65.48	2.49	12.53	-55.44	-13
Mid Channel: 20525, Frequency: 836.5MHz RB/RB Offset: 1@0							
Horizontal	1673	-36.52	-53.68	1.81	10.10	-45.39	-13
Horizontal	2510	-49.68	-65.92	3.03	13.08	-55.87	-13
Horizontal	3346	-50.47	-64.20	2.50	12.54	-54.15	-13
Vertical	1673	-42.55	-59.54	1.81	10.10	-51.25	-13
Vertical	2510	-51.53	-67.12	3.03	13.08	-57.07	-13
Vertical	3346	-51.68	-65.64	2.50	12.54	-55.59	-13
High Channel: 20600, Frequency: 844MHz RB/RB Offset: 1@25							
Horizontal	1688	-36.40	-53.35	1.82	10.12	-45.05	-13
Horizontal	2532	-49.02	-65.15	2.98	13.02	-55.11	-13
Horizontal	3376	-51.35	-65.14	2.51	12.56	-55.09	-13
Vertical	1688	-42.74	-59.38	1.82	10.12	-51.08	-13
Vertical	2532	-51.30	-66.85	2.98	13.02	-56.81	-13
Vertical	3376	-50.05	-63.98	2.51	12.56	-53.93	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. ERP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 4 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	WCDMA/LTE Mobile Phone		
Test Mode	Spurious Emission (Radiated) - Multi Band Dipole Antenna (STAF)		
Date of Test	2021/06/21	Test Site	Site3
Test Condition	Band 12 (1.4M) QPSK	Test Range	9kHz ~10GHz

Polarity	Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
	(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)
Low Channel: 23017, Frequency: 699.7MHz RB/RB Offset: 1@2							
Horizontal	1399	-33.04	-49.49	1.63	9.80	-41.32	-13
Horizontal	2099	-44.74	-57.39	2.09	10.59	-48.90	-13
Horizontal	2799	-50.96	-66.71	2.39	12.34	-56.75	-13
Vertical	1399	-36.79	-53.59	1.63	9.80	-45.42	-13
Vertical	2099	-50.92	-64.93	2.09	10.59	-56.44	-13
Vertical	2799	-51.32	-66.47	2.39	12.34	-56.51	-13
Mid Channel: 23095, Frequency: 707.5MHz RB/RB Offset: 1@2							
Horizontal	1415	-32.81	-49.14	1.64	9.82	-40.96	-13
Horizontal	2123	-45.20	-58.25	2.13	10.67	-49.71	-13
Horizontal	2830	-51.50	-67.15	2.35	12.31	-57.20	-13
Vertical	1415	-36.00	-52.85	1.64	9.82	-44.67	-13
Vertical	2123	-51.11	-64.90	2.13	10.67	-56.36	-13
Vertical	2830	-50.80	-65.66	2.35	12.31	-55.71	-13
High Channel: 23173, Frequency: 715.3MHz RB/RB Offset: 3@3							
Horizontal	1431	-37.83	-54.00	1.65	9.84	-45.81	-13
Horizontal	2146	-47.00	-60.56	2.18	10.82	-51.92	-13
Horizontal	2861	-51.64	-67.20	2.36	12.32	-57.24	-13
Vertical	1431	-41.09	-57.98	1.65	9.84	-49.79	-13
Vertical	2146	-51.79	-65.38	2.18	10.82	-56.74	-13
Vertical	2861	-51.12	-65.66	2.36	12.32	-55.70	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. ERP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 3 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	WCDMA/LTE Mobile Phone		
Test Mode	Spurious Emission (Radiated) - Multi Band Dipole Antenna (STAF)		
Date of Test	2021/06/21	Test Site	Site3
Test Condition	Band 12 (3M) QPSK	Test Range	9kHz ~10GHz

Polarity	Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
	(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)
Low Channel: 23025, Frequency: 700.5MHz RB/RB Offset: 1@14							
Horizontal	1401	-34.72	-51.15	1.63	9.80	-42.98	-13
Horizontal	2102	-46.20	-58.92	2.09	10.59	-50.42	-13
Horizontal	2802	-50.94	-66.68	2.38	12.34	-56.73	-13
Vertical	1401	-37.91	-54.72	1.63	9.80	-46.55	-13
Vertical	2102	-50.90	-64.85	2.09	10.59	-56.35	-13
Vertical	2802	-51.19	-66.33	2.38	12.34	-56.38	-13
Mid Channel: 23095, Frequency: 707.5MHz RB/RB Offset: 1@14							
Horizontal	1415	-30.80	-47.10	1.64	9.82	-38.92	-13
Horizontal	2123	-44.72	-57.84	2.13	10.67	-49.30	-13
Horizontal	2830	-51.10	-66.73	2.35	12.31	-56.78	-13
Vertical	1415	-34.20	-51.05	1.64	9.82	-42.87	-13
Vertical	2123	-50.36	-64.10	2.13	10.67	-55.56	-13
Vertical	2830	-51.79	-66.57	2.35	12.31	-56.62	-13
High Channel: 23165, Frequency: 714.5MHz RB/RB Offset: 1@7							
Horizontal	1429	-33.75	-49.93	1.65	9.83	-41.75	-13
Horizontal	2144	-46.21	-59.71	2.18	10.80	-51.08	-13
Horizontal	2858	-51.49	-67.05	2.36	12.32	-57.09	-13
Vertical	1429	-37.91	-54.79	1.65	9.83	-46.61	-13
Vertical	2144	-51.58	-65.20	2.18	10.80	-56.57	-13
Vertical	2858	-51.02	-65.60	2.36	12.32	-55.64	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. ERP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 3 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	WCDMA/LTE Mobile Phone		
Test Mode	Spurious Emission (Radiated) - Multi Band Dipole Antenna (STAF)		
Date of Test	2021/06/21	Test Site	Site3
Test Condition	Band 12 (5M) QPSK	Test Range	9kHz ~10GHz

Polarity	Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
	(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)
Low Channel: 23035, Frequency: 701.5MHz RB/RB Offset: 1@12							
Horizontal	1403	-34.22	-50.66	1.63	9.81	-42.49	-13
Horizontal	2105	-46.68	-59.38	2.10	10.59	-50.88	-13
Horizontal	2806	-50.73	-66.45	2.37	12.33	-56.50	-13
Vertical	1403	-38.16	-54.97	1.63	9.81	-46.80	-13
Vertical	2105	-50.87	-64.80	2.10	10.59	-56.30	-13
Vertical	2806	-51.46	-66.48	2.37	12.33	-56.53	-13
Mid Channel: 23095, Frequency: 707.5MHz RB/RB Offset: 1@12							
Horizontal	1415	-32.28	-48.61	1.64	9.82	-40.43	-13
Horizontal	2123	-44.29	-57.34	2.13	10.67	-48.80	-13
Horizontal	2830	-50.65	-66.31	2.35	12.31	-56.36	-13
Vertical	1415	-35.73	-52.58	1.64	9.82	-44.40	-13
Vertical	2123	-50.93	-64.71	2.13	10.67	-56.17	-13
Vertical	2830	-50.67	-65.47	2.35	12.31	-55.52	-13
High Channel: 23155, Frequency: 713.5MHz RB/RB Offset: 1@12							
Horizontal	1427	-32.92	-49.12	1.65	9.83	-40.94	-13
Horizontal	2141	-47.00	-60.43	2.17	10.78	-51.82	-13
Horizontal	2854	-51.97	-67.56	2.36	12.32	-57.60	-13
Vertical	1427	-36.40	-53.27	1.65	9.83	-45.09	-13
Vertical	2141	-51.95	-65.58	2.17	10.78	-56.97	-13
Vertical	2854	-51.29	-65.90	2.36	12.32	-55.94	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. ERP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 3 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	WCDMA/LTE Mobile Phone		
Test Mode	Spurious Emission (Radiated) - Multi Band Dipole Antenna (STAF)		
Date of Test	2021/06/21	Test Site	Site3
Test Condition	Band 12 (10M) QPSK	Test Range	9kHz ~10GHz

Polarity	Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
	(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)
Low Channel: 23060, Frequency: 704MHz RB/RB Offset: 1@49							
Horizontal	1408	-31.63	-47.93	1.64	9.81	-39.76	-13
Horizontal	2112	-44.74	-57.81	2.10	10.60	-49.31	-13
Horizontal	2816	-50.62	-66.32	2.35	12.30	-56.37	-13
Vertical	1408	-34.38	-51.22	1.64	9.81	-43.05	-13
Vertical	2112	-50.82	-64.62	2.10	10.60	-56.12	-13
Vertical	2816	-51.33	-66.29	2.35	12.30	-56.34	-13
Mid Channel: 23095, Frequency: 707.5MHz RB/RB Offset: 1@25							
Horizontal	1415	-32.42	-48.74	1.64	9.82	-40.56	-13
Horizontal	2123	-45.59	-58.65	2.13	10.67	-50.11	-13
Horizontal	2830	-51.92	-67.55	2.35	12.31	-57.60	-13
Vertical	1415	-35.33	-52.18	1.64	9.82	-44.00	-13
Vertical	2123	-51.96	-65.76	2.13	10.67	-57.22	-13
Vertical	2830	-50.80	-65.66	2.35	12.31	-55.71	-13
High Channel: 23130, Frequency: 711MHz RB/RB Offset: 1@25							
Horizontal	1422	-31.49	-47.74	1.65	9.83	-39.56	-13
Horizontal	2133	-44.94	-58.22	2.15	10.74	-49.64	-13
Horizontal	2844	-51.63	-67.27	2.36	12.31	-57.31	-13
Vertical	1422	-34.81	-51.67	1.65	9.83	-43.49	-13
Vertical	2133	-51.37	-65.06	2.15	10.74	-56.48	-13
Vertical	2844	-51.58	-66.28	2.36	12.31	-56.32	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. ERP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 3 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	WCDMA/LTE Mobile Phone		
Test Mode	Spurious Emission (Radiated) - Multi Band Dipole Antenna (STAF)		
Date of Test	2021/06/21	Test Site	Site3
Test Condition	Band 30 (5M) QPSK	Test Range	9kHz ~25GHz

Polarity	Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
	(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)
Low Channel: 27685, Frequency: 2307.5MHz RB/RB Offset: 1@24							
Horizontal	4615	-42.26	-51.65	3.04	12.87	-41.82	-40
Horizontal	6923	-44.62	-48.92	3.65	11.50	-41.07	-40
Horizontal	9230	-51.72	-57.77	4.16	12.00	-49.93	-40
Vertical	4615	-40.95	-51.11	3.04	12.87	-41.28	-40
Vertical	6923	-44.32	-48.87	3.65	11.50	-41.02	-40
Vertical	9230	-50.83	-56.71	4.16	12.00	-48.87	-40
Mid Channel: 27710, Frequency: 23103MHz RB/RB Offset: 1@12							
Horizontal	4620	-42.32	-51.71	3.04	12.87	-41.88	-40
Horizontal	6930	-44.83	-49.14	3.65	11.50	-41.29	-40
Horizontal	9240	-50.96	-57.00	4.17	12.00	-49.17	-40
Vertical	4620	-42.51	-52.67	3.04	12.87	-42.84	-40
Vertical	6930	-44.83	-49.38	3.65	11.50	-41.53	-40
Vertical	9240	-48.28	-54.15	4.17	12.00	-46.32	-40
High Channel: 27735, Frequency: 2312.5MHz RB/RB Offset: 1@12							
Horizontal	4625	-43.71	-53.11	3.04	12.87	-43.28	-40
Horizontal	6938	-44.18	-48.50	3.67	11.50	-40.67	-40
Horizontal	9250	-49.56	-55.65	4.17	12.00	-47.82	-40
Vertical	4625	-43.62	-53.80	3.04	12.87	-43.97	-40
Vertical	6938	-44.34	-48.88	3.67	11.50	-41.05	-40
Vertical	9250	-46.88	-52.74	4.17	12.00	-44.91	-40

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. ERP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 10 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	WCDMA/LTE Mobile Phone		
Test Mode	Spurious Emission (Radiated) - Multi Band Dipole Antenna (STAF)		
Date of Test	2021/06/21	Test Site	Site3
Test Condition	Band 30 (10M) QPSK	Test Range	9kHz ~25GHz

Polarity	Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
	(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)
Mid Channel: 27710, Frequency: 23103MHz RB/RB Offset: 1@0							
Horizontal	4620	-41.72	-51.11	3.04	12.87	-41.28	-40
Horizontal	6930	-44.62	-49.13	3.65	11.50	-41.28	-40
Horizontal	9240	-51.33	-57.30	4.17	12.00	-49.47	-40
Vertical	4620	-40.97	-51.11	3.04	12.87	-41.28	-40
Vertical	6930	-44.21	-48.74	3.65	11.50	-40.89	-40
Vertical	9240	-51.28	-57.16	4.17	12.00	-49.33	-40

Note:

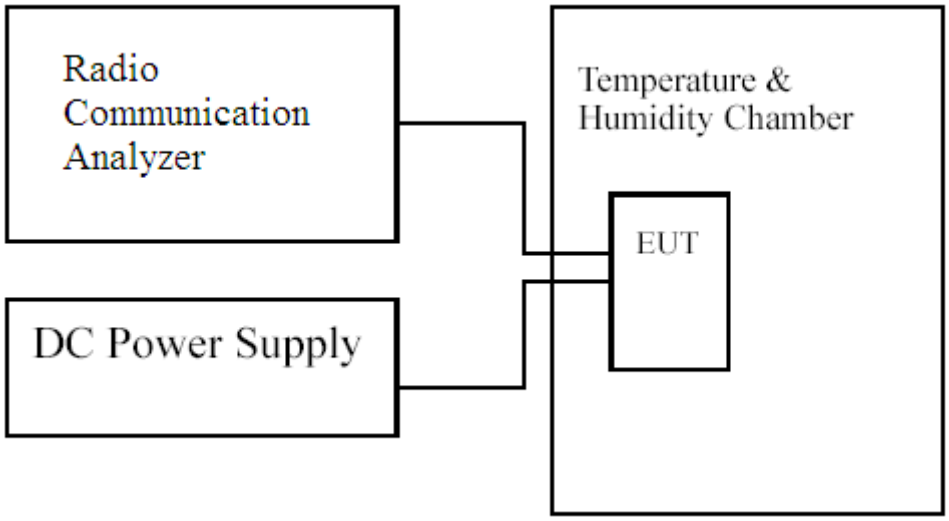
1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. ERP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 10 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

7. Frequency Stability Under Temperature & Voltage Variations

7.1. Test Specification

According to Part 2.1055, 22.355, 24.235, 27.54

7.2. Test Setup



7.3. Limits

Limit	**<±2.5ppm**

7.4. Test Procedure

The frequency stability of transmitter is measured by:

(a) Temperature: The temperature is varied from -30°C to 50°C in 10°C increment using a standard temperature & Humidity chamber.

(b) Primary Supply Voltage: The primary supply voltage is varied 85% to 115% of the nominal value for non hand-carried equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating endpoint which shall be specified by the manufacturer.

The EUT was connected via the base station simulator. Universal Radio Communication Tester, was used to measure The Frequency Error. The maximum result of measurements was recorded.

7.5. Test Result of Frequency Stability Under Temperature Variations

Product	WCDMA/LTE Mobile Phone		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2021/06/23	Test Site	CTR
Test Condition	Band 2 CH18900(1880MHz) –QPSK	Test Range	-30℃~+50℃

Frequency Stability Under Temperature Variations

Temperature Interval(℃)	Test Channel	Deviation (kHz)						Limit (kHz)
		1.4M	3M	5M	10M	15M	20M	
-30	Mid	-0.0081	-0.0066	-0.0056	-0.0044	-0.0046	-0.0047	±4.7
-20	Mid	-0.0053	-0.0056	-0.0076	-0.0075	-0.0078	-0.0033	±4.7
-10	Mid	-0.0079	-0.0055	-0.0051	-0.0036	-0.0040	-0.0034	±4.7
0	Mid	-0.0041	-0.0061	-0.0076	-0.0054	-0.0043	-0.0053	±4.7
10	Mid	-0.0062	-0.0056	-0.0037	-0.0050	-0.0063	-0.0068	±4.7
20	Mid	-0.0091	-0.0061	-0.0054	-0.0080	-0.0108	-0.0049	±4.7
30	Mid	-0.0063	-0.0084	-0.0078	-0.0062	-0.0070	-0.0058	±4.7
40	Mid	-0.0073	-0.0085	-0.0072	-0.0083	-0.0068	-0.0074	±4.7
50	Mid	-0.0080	-0.0059	-0.0075	-0.0056	-0.0059	-0.0057	±4.7

Voltage Variations

DC Voltage (V)	Test Channel	Deviation (kHz)						Limit (kHz)
		1.4M	3M	5M	10M	15M	20M	
4.2	Mid	-0.0067	-0.0060	-0.0043	-0.0059	-0.0087	-0.0068	±4.7
3.8	Mid	-0.0091	-0.0061	-0.0054	-0.0080	-0.0108	-0.0049	±4.7
3.6	Mid	-0.0076	-0.0062	-0.0086	-0.0059	-0.0078	-0.0091	±4.7

DC Current (A)	1.4M	3M	5M	10M	15M	20M
LINK:	0.81	0.80	0.80	0.81	0.84	0.85
IDLE:	0.09	0.10	0.10	0.11	0.10	0.12

Product	WCDMA/LTE Mobile Phone		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2021/06/23	Test Site	CTR
Test Condition	Band 4 CH18900(1880MHz) –QPSK	Test Range	-30℃~+50℃

Frequency Stability Under Temperature Variations

Temperature Interval(℃)	Test Channel	Deviation (kHz)						Limit (kHz)
		1.4M	3M	5M	10M	15M	20M	
-30	Mid	0.0050	0.0076	0.0044	0.0052	0.0032	0.0043	±4.36
-20	Mid	0.0053	0.0081	0.0066	0.0046	0.0053	0.0046	±4.36
-10	Mid	0.0053	0.0043	0.0035	0.0077	0.0041	0.0044	±4.36
0	Mid	0.0063	0.0044	0.0054	0.0039	0.0036	0.0058	±4.36
10	Mid	0.0057	0.0063	0.0046	0.0076	0.0045	0.0036	±4.36
20	Mid	0.0046	-0.0040	0.0067	0.0047	0.0047	0.0066	±4.36
30	Mid	0.0060	0.0046	-0.0039	0.0029	0.0042	0.0052	±4.36
40	Mid	-0.0048	-0.0056	-0.0039	0.0045	0.0042	0.0046	±4.36
50	Mid	0.0083	0.0064	0.0059	0.0060	0.0034	0.0052	±4.36

Voltage Variations

DC Voltage (V)	Test Channel	Deviation (kHz)						Limit (kHz)
		1.4M	3M	5M	10M	15M	20M	
4.2	Mid	0.0044	0.0042	-0.0037	0.0055	0.0040	0.0035	±4.36
3.8	Mid	0.0046	-0.0040	0.0067	0.0047	0.0047	0.0066	±4.36
3.6	Mid	0.0031	0.0038	0.0025	0.0054	-0.0042	-0.0031	±4.36

DC Current (A)	1.4M	3M	5M	10M	15M	20M
LINK:	0.78	0.78	0.79	0.80	0.84	0.84
IDLE:	0.10	0.09	0.11	0.10	0.12	0.11

Product	WCDMA/LTE Mobile Phone		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2021/06/23	Test Site	CTR
Test Condition	Band 5 CH20525(836.5MHz)-QPSK	Test Range	-30℃~+50℃

Frequency Stability Under Temperature Variations

Temperature Interval(℃)	Test Channel	Deviation (kHz)						Limit (kHz)
		1.4M	3M	5M	10M	15M	20M	
-30	Mid	0.0038	0.0041	0.0044	0.0021	--	--	±2.09
-20	Mid	0.0017	-0.0046	-0.0021	-0.0015	--	--	±2.09
-10	Mid	0.0023	0.0060	0.0030	0.0032	--	--	±2.09
0	Mid	0.0032	-0.0043	0.0037	-0.0028	--	--	±2.09
10	Mid	0.0029	0.0030	0.0031	-0.0026	--	--	±2.09
20	Mid	-0.0037	-0.0032	0.0026	0.0022	--	--	±2.09
30	Mid	-0.0028	-0.0034	-0.0030	-0.0031	--	--	±2.09
40	Mid	-0.0041	-0.0043	-0.0028	-0.0030	--	--	±2.09
50	Mid	-0.0028	-0.0039	0.0022	-0.0024	--	--	±2.09

Voltage Variations

DC Voltage (V)	Test Channel	Deviation (kHz)						Limit (kHz)
		1.4M	3M	5M	10M	15M	20M	
4.2	Mid	-0.0053	0.0034	-0.0036	-0.0036	--	--	±2.09
3.8	Mid	-0.0037	-0.0032	0.0026	0.0022	--	--	±2.09
3.6	Mid	-0.0048	-0.0030	-0.0022	0.0023	--	--	±2.09

DC Current (A)	1.4M	3M	5M	10M
LINK:	0.64	0.64	0.65	0.66
IDLE:	0.09	0.11	0.10	0.09

Product	WCDMA/LTE Mobile Phone		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2021/06/23	Test Site	CTR
Test Condition	Band 12 CH23095(707.5MHz) –QPSK	Test Range	-30℃~+50℃

Frequency Stability Under Temperature Variations

Temperature Interval(℃)	Test Channel	Deviation (kHz)						Limit (kHz)
		1.4M	3M	5M	10M	15M	20M	
-30	Mid	0.0034	0.0039	0.0026	0.0027	--	--	±1.77
-20	Mid	0.0021	0.0051	0.0023	0.0021	--	--	±1.77
-10	Mid	0.0034	0.0031	0.0054	-0.0033	--	--	±1.77
0	Mid	0.0038	0.0059	-0.0024	0.0020	--	--	±1.77
10	Mid	0.0029	0.0022	-0.0017	0.0021	--	--	±1.77
20	Mid	-0.0022	-0.0048	-0.0035	-0.0021	--	--	±1.77
30	Mid	-0.0031	0.0028	-0.0030	-0.0036	--	--	±1.77
40	Mid	0.0028	-0.0040	0.0018	-0.0024	--	--	±1.77
50	Mid	-0.0030	-0.0042	0.0018	-0.0026	--	--	±1.77

Voltage Variations

DC Voltage (V)	Test Channel	Deviation (kHz)						Limit (kHz)
		1.4M	3M	5M	10M	15M	20M	
4.2	Mid	-0.0038	-0.0039	-0.0024	-0.0031	--	--	±1.77
3.8	Mid	-0.0022	-0.0048	-0.0035	-0.0021	--	--	±1.77
3.6	Mid	-0.0048	-0.0042	-0.0023	-0.0019	--	--	±1.77

DC Current (A)	1.4M	3M	5M	10M
LINK:	0.64	0.64	0.66	0.68
IDLE:	0.10	0.10	0.12	0.11

Product	WCDMA/LTE Mobile Phone		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2021/06/23	Test Site	CTR
Test Condition	Band 30 CH27710(2310MHz) –QPSK	Test Range	-30℃~+50℃

Frequency Stability Under Temperature Variations

Temperature Interval(℃)	Test Channel	Deviation (kHz)						Limit (kHz)
		1.4M	3M	5M	10M	15M	20M	
-30	Mid	--	--	-0.0047	0.0042	--	--	±5.78
-20	Mid	--	--	-0.0034	-0.0063	--	--	±5.78
-10	Mid	--	--	-0.0046	-0.0068	--	--	±5.78
0	Mid	--	--	-0.0045	-0.0057	--	--	±5.78
10	Mid	--	--	-0.0101	-0.0074	--	--	±5.78
20	Mid	--	--	-0.0055	-0.0062	--	--	±5.78
30	Mid	--	--	-0.0058	-0.0075	--	--	±5.78
40	Mid	--	--	0.0071	-0.0065	--	--	±5.78
50	Mid	--	--	-0.0073	-0.0051	--	--	±5.78

Voltage Variations

DC Voltage (V)	Test Channel	Deviation (kHz)						Limit (kHz)
		1.4M	3M	5M	10M	15M	20M	
4.2	Mid	--	--	-0.0084	-0.0085	--	--	±5.78
3.8	Mid	--	--	-0.0055	-0.0062	--	--	±5.78
3.6	Mid	--	--	-0.0042	-0.0051	--	--	±5.78

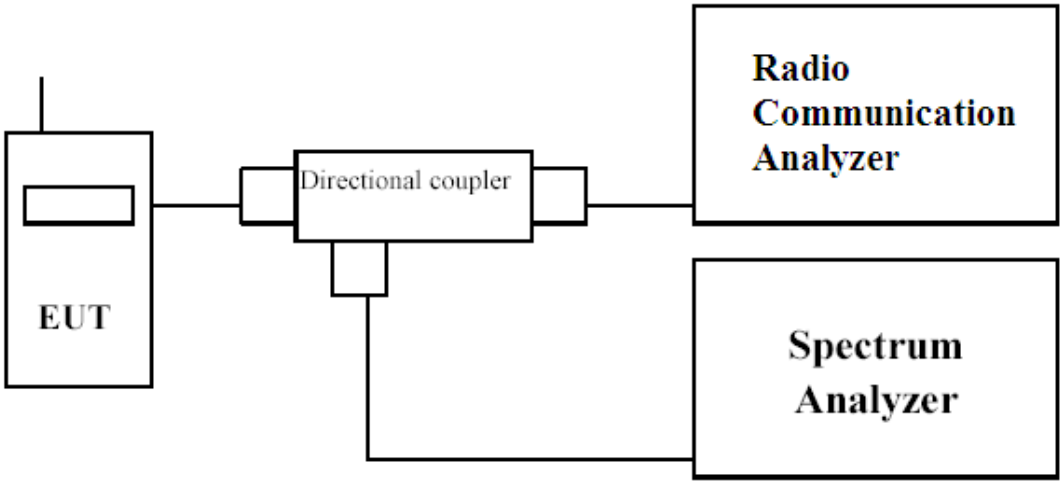
DC Current (A)	5M	10M
LINK:	0.83	0.84
IDLE:	0.09	0.10

8. Peak to Average Ratio

8.1 Test Specification

According to Part 22.913, 24.232, 27.50

8.1. Test Setup



8.2. Limits

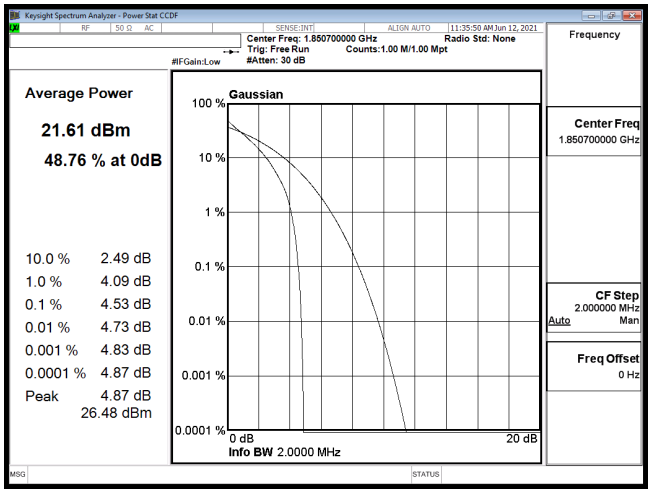
The peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB. The PAPR measurements should be made using either an instrument with complementary cumulative distribution function (CCDF) capabilities to determine that PAPR will not exceed 13 dB for more than 0.1 percent of the time or other Commission approved procedure.

8.3. Test Procedure

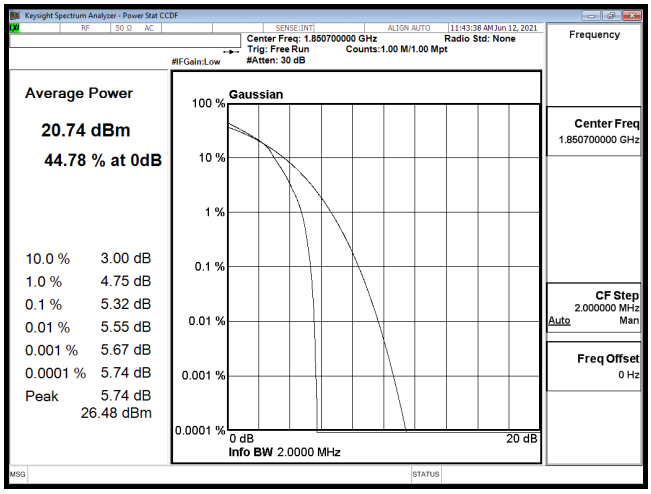
a) Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;
b) Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;
c) Set the number of counts to a value that stabilizes the measured CCDF curve;
d) Set the measurement interval as follows:
1) for continuous transmissions, set to 1 ms,
2) for burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.
e) Record the maximum PAPR level associated with a probability of 0.1%.

8.4. Test Result of Spurious Emission

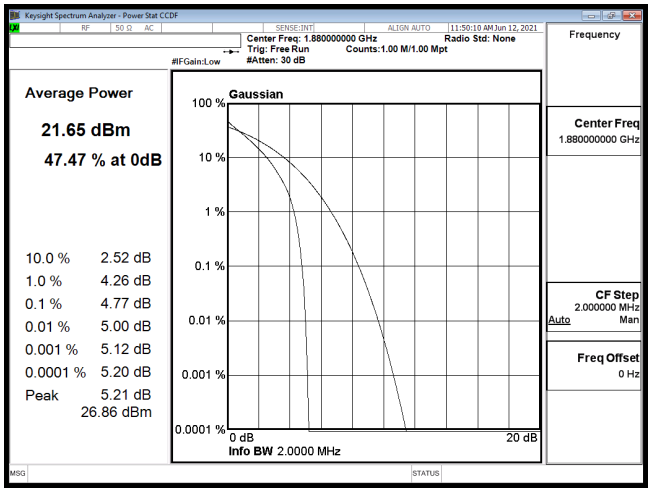
Product	WCDMA/LTE Mobile Phone		
Test Mode	Peak to Average Ratio		
Date of Test	2021/06/12	Test Site	CTR
Test Condition	LTE-Band 2 QPSK/16QAM		



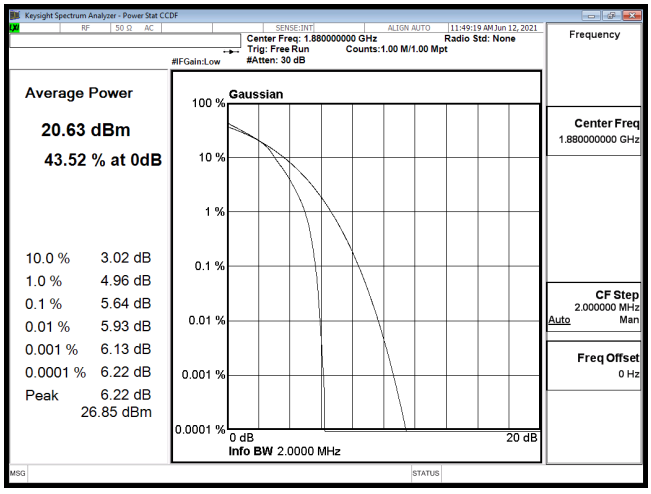
PTAR B2 1.4M CH18607 QPSK



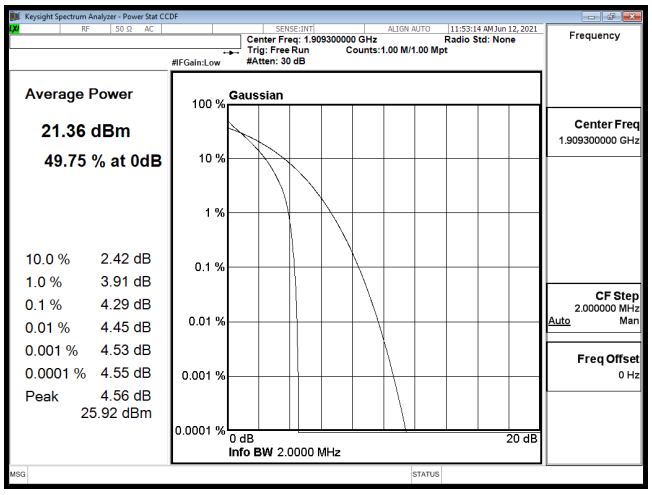
PTAR B2 1.4M CH18607 16QAM



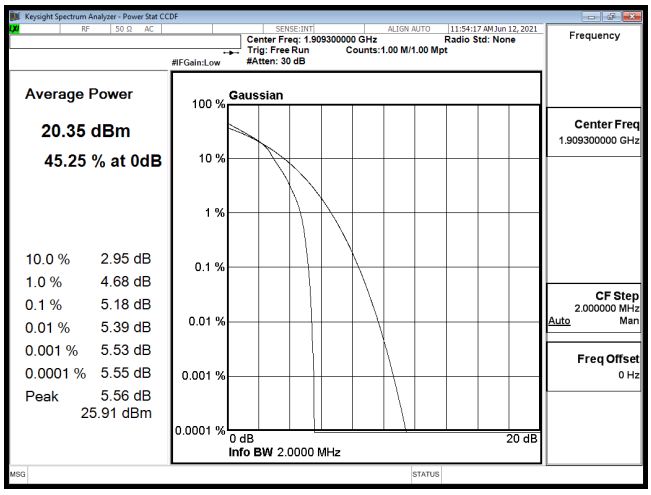
PTAR B2 1.4M CH18900 QPSK



PTAR B2 1.4M CH18900 16QAM



PTAR B2 1.4M CH19193 QPSK



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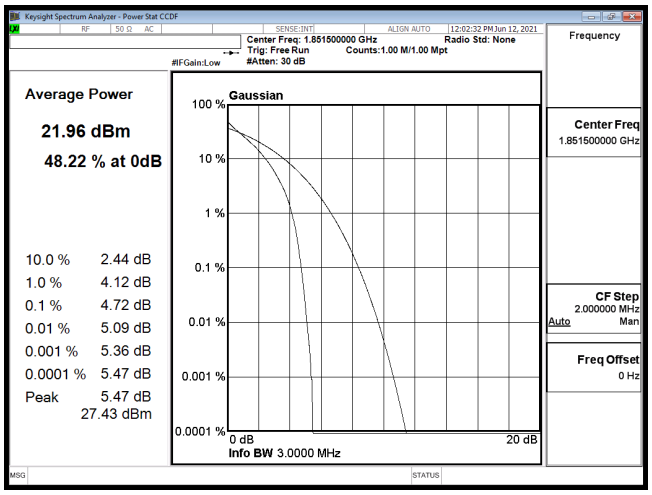
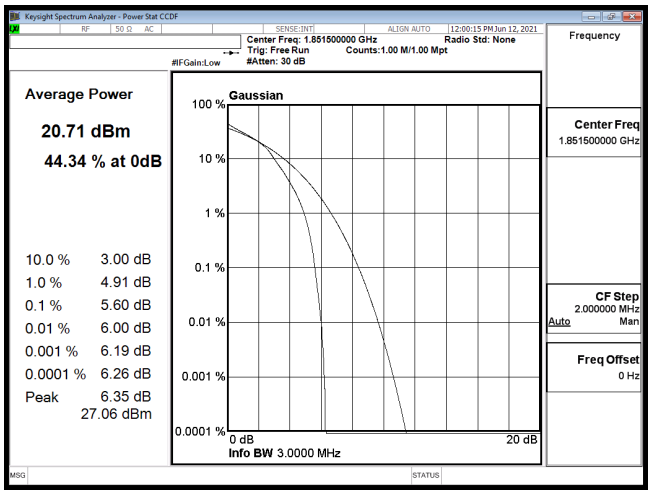


PTAR B2 3M CH18615 QPSK



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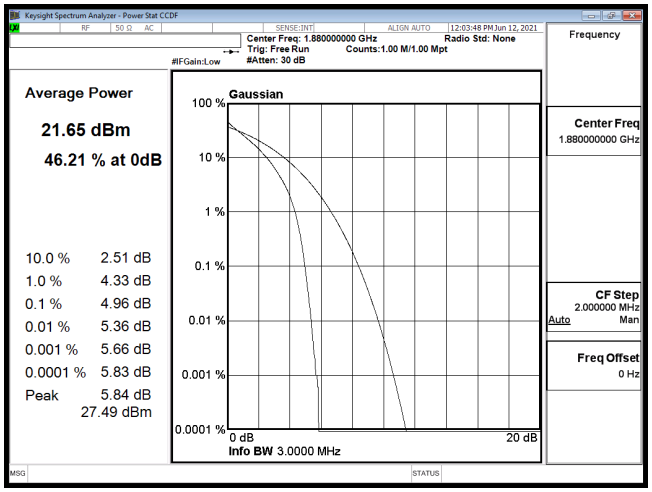
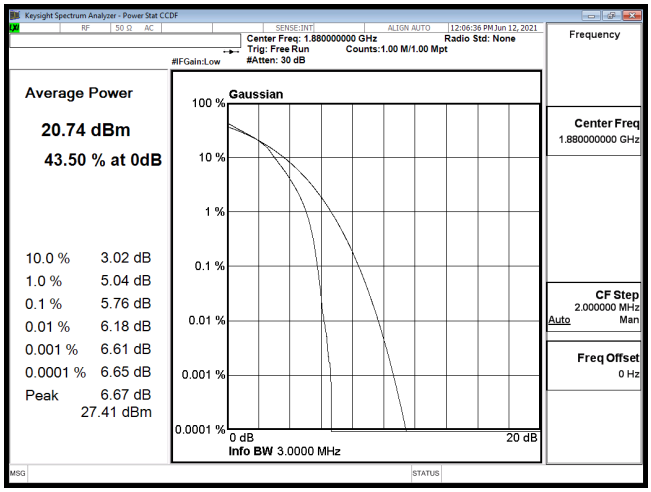
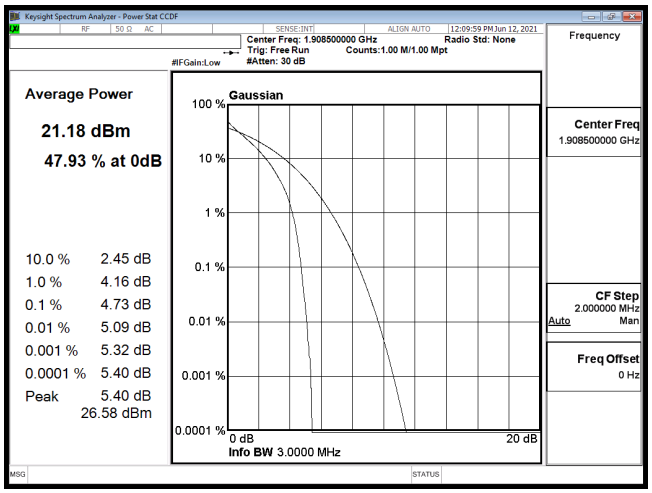


PTAR B2 3M CH18900 QPSK



PTAR B2 3M CH18900 16QAM



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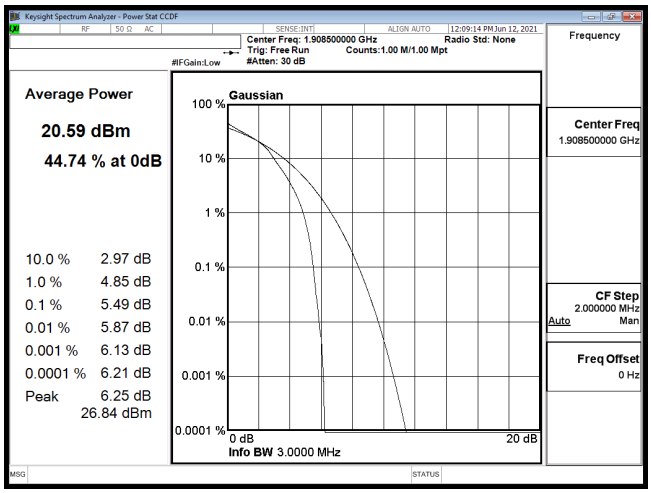
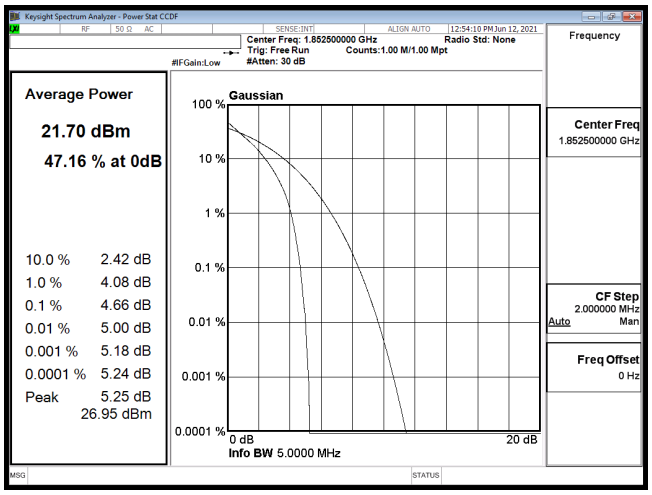
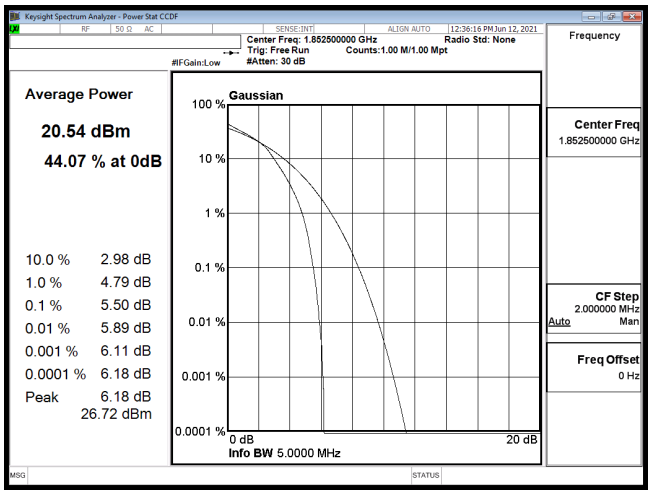


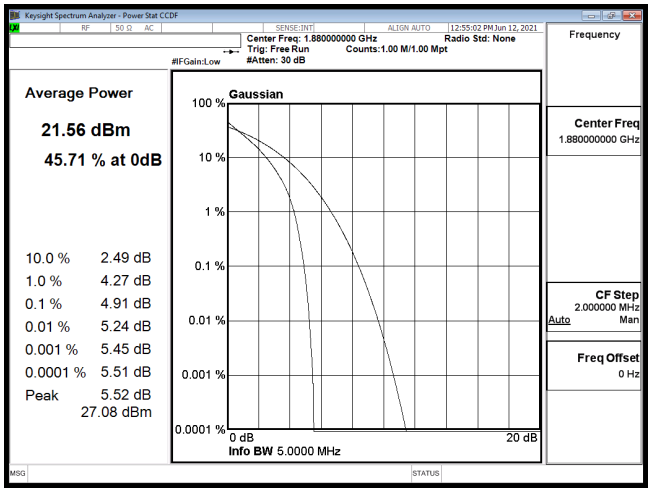
PTAR B2 3M CH19185 16QAM



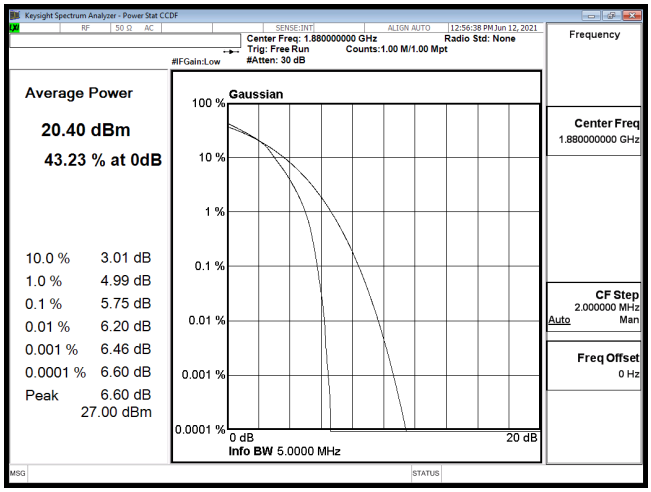
PTAR B2 5M CH18625 QPSK



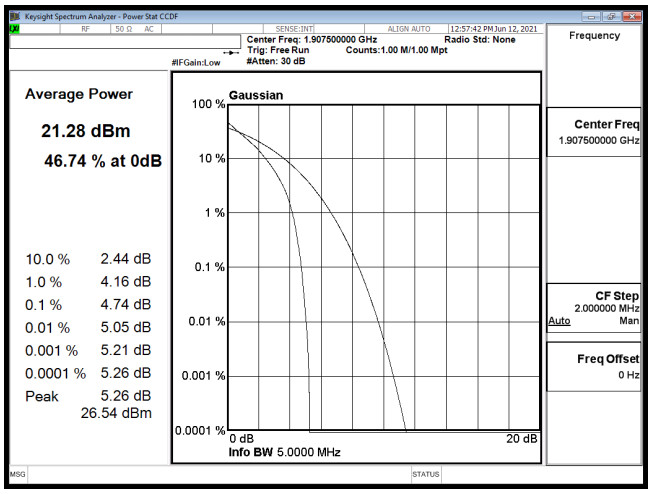
PTAR B2 5M CH18625 16QAM



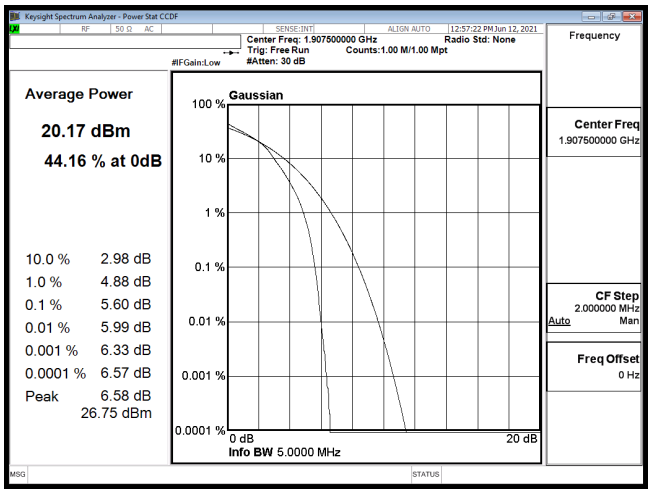
PTAR B2 5M CH18900 QPSK



PTAR B2 5M CH18900 16QAM



PTAR B2 5M CH19175 QPSK



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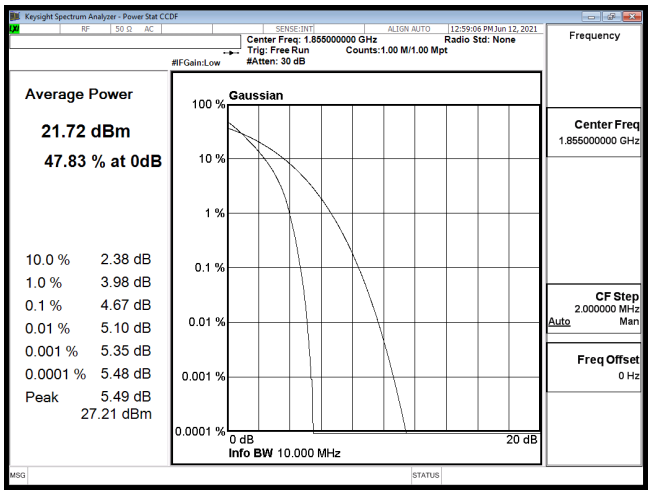

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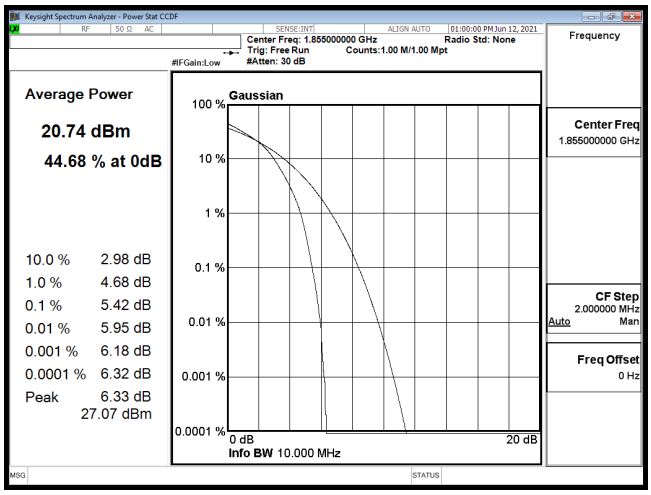

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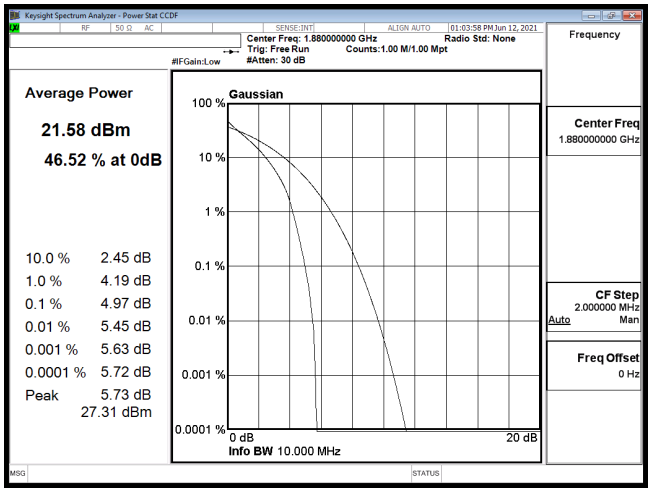

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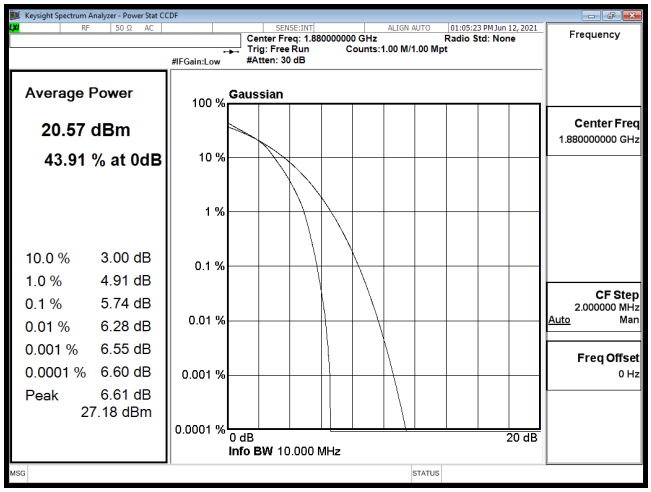

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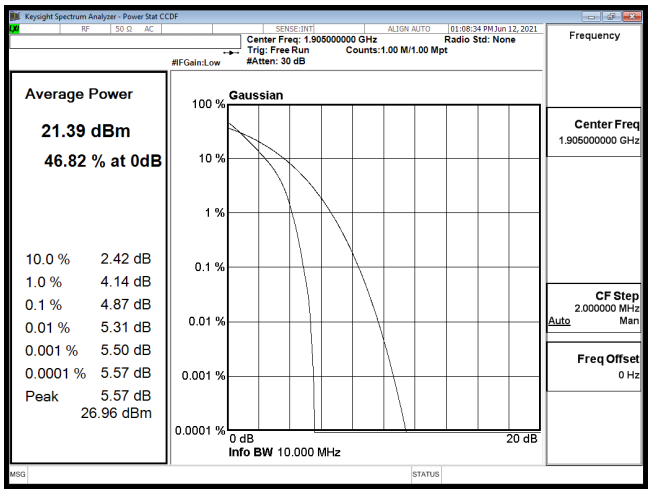

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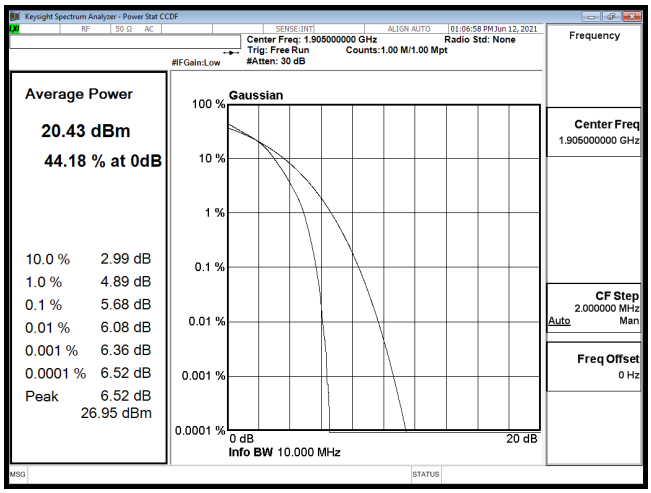

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