



Appendix B

E-UTRA BAND 17



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1. Effective (Isotropic) Radiated Power

1.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	ERP (dBm)	Limit (dBm)	Verdict
BAND17	5MHz	QPSK	23755	1RB#0	24.04	17.52	34.77	PASS
BAND17	5MHz	QPSK	23755	1RB#12	23.38	16.86	34.77	PASS
BAND17	5MHz	QPSK	23755	1RB#24	23.88	17.36	34.77	PASS
BAND17	5MHz	QPSK	23755	12RB#0	22.46	15.94	34.77	PASS
BAND17	5MHz	QPSK	23755	12RB#6	22.40	15.88	34.77	PASS
BAND17	5MHz	QPSK	23755	12RB#13	22.41	15.89	34.77	PASS
BAND17	5MHz	QPSK	23755	25RB#0	22.41	15.89	34.77	PASS
BAND17	5MHz	QPSK	23790	1RB#0	23.96	17.44	34.77	PASS
BAND17	5MHz	QPSK	23790	1RB#12	23.42	16.90	34.77	PASS
BAND17	5MHz	QPSK	23790	1RB#24	23.91	17.39	34.77	PASS
BAND17	5MHz	QPSK	23790	12RB#0	22.53	16.01	34.77	PASS
BAND17	5MHz	QPSK	23790	12RB#6	22.45	15.93	34.77	PASS
BAND17	5MHz	QPSK	23790	12RB#13	22.41	15.89	34.77	PASS
BAND17	5MHz	QPSK	23790	25RB#0	22.46	15.94	34.77	PASS
BAND17	5MHz	QPSK	23825	1RB#0	23.95	17.43	34.77	PASS
BAND17	5MHz	QPSK	23825	1RB#12	23.40	16.88	34.77	PASS
BAND17	5MHz	QPSK	23825	1RB#24	24.01	17.49	34.77	PASS
BAND17	5MHz	QPSK	23825	12RB#0	22.46	15.94	34.77	PASS
BAND17	5MHz	QPSK	23825	12RB#6	22.45	15.93	34.77	PASS
BAND17	5MHz	QPSK	23825	12RB#13	22.49	15.97	34.77	PASS
BAND17	5MHz	QPSK	23825	25RB#0	22.40	15.88	34.77	PASS
BAND17	5MHz	64QAM	23755	1RB#0	22.19	15.67	34.77	PASS
BAND17	5MHz	64QAM	23755	1RB#12	21.54	15.02	34.77	PASS
BAND17	5MHz	64QAM	23755	1RB#24	22.10	15.58	34.77	PASS
BAND17	5MHz	64QAM	23755	12RB#0	21.01	14.49	34.77	PASS
BAND17	5MHz	64QAM	23755	12RB#6	20.95	14.43	34.77	PASS
BAND17	5MHz	64QAM	23755	12RB#13	21.01	14.49	34.77	PASS
BAND17	5MHz	64QAM	23755	25RB#0	20.93	14.41	34.77	PASS
BAND17	5MHz	64QAM	23790	1RB#0	22.19	15.67	34.77	PASS
BAND17	5MHz	64QAM	23790	1RB#12	21.59	15.07	34.77	PASS
BAND17	5MHz	64QAM	23790	1RB#24	22.14	15.62	34.77	PASS
BAND17	5MHz	64QAM	23790	12RB#0	21.14	14.62	34.77	PASS
BAND17	5MHz	64QAM	23790	12RB#6	20.94	14.42	34.77	PASS
BAND17	5MHz	64QAM	23790	12RB#13	21.13	14.61	34.77	PASS



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BAND17	5MHz	64QAM	23790	25RB#0	20.97	14.45	34.77	PASS
BAND17	5MHz	64QAM	23825	1RB#0	22.11	15.59	34.77	PASS
BAND17	5MHz	64QAM	23825	1RB#12	21.73	15.21	34.77	PASS
BAND17	5MHz	64QAM	23825	1RB#24	22.28	15.76	34.77	PASS
BAND17	5MHz	64QAM	23825	12RB#0	21.01	14.49	34.77	PASS
BAND17	5MHz	64QAM	23825	12RB#6	21.01	14.49	34.77	PASS
BAND17	5MHz	64QAM	23825	12RB#13	21.09	14.57	34.77	PASS
BAND17	5MHz	64QAM	23825	25RB#0	20.96	14.44	34.77	PASS
BAND17	5MHz	16QAM	23755	1RB#0	23.12	16.60	34.77	PASS
BAND17	5MHz	16QAM	23755	1RB#12	22.50	15.98	34.77	PASS
BAND17	5MHz	16QAM	23755	1RB#24	23.01	16.49	34.77	PASS
BAND17	5MHz	16QAM	23755	12RB#0	21.89	15.37	34.77	PASS
BAND17	5MHz	16QAM	23755	12RB#6	21.83	15.31	34.77	PASS
BAND17	5MHz	16QAM	23755	12RB#13	21.83	15.31	34.77	PASS
BAND17	5MHz	16QAM	23755	25RB#0	21.82	15.30	34.77	PASS
BAND17	5MHz	16QAM	23790	1RB#0	23.02	16.50	34.77	PASS
BAND17	5MHz	16QAM	23790	1RB#12	22.65	16.13	34.77	PASS
BAND17	5MHz	16QAM	23790	1RB#24	23.00	16.48	34.77	PASS
BAND17	5MHz	16QAM	23790	12RB#0	22.04	15.52	34.77	PASS
BAND17	5MHz	16QAM	23790	12RB#6	21.91	15.39	34.77	PASS
BAND17	5MHz	16QAM	23790	12RB#13	21.84	15.32	34.77	PASS
BAND17	5MHz	16QAM	23790	25RB#0	21.93	15.41	34.77	PASS
BAND17	5MHz	16QAM	23825	1RB#0	23.14	16.62	34.77	PASS
BAND17	5MHz	16QAM	23825	1RB#12	22.53	16.01	34.77	PASS
BAND17	5MHz	16QAM	23825	1RB#24	23.16	16.64	34.77	PASS
BAND17	5MHz	16QAM	23825	12RB#0	21.87	15.35	34.77	PASS
BAND17	5MHz	16QAM	23825	12RB#6	21.88	15.36	34.77	PASS
BAND17	5MHz	16QAM	23825	12RB#13	21.95	15.43	34.77	PASS
BAND17	5MHz	16QAM	23825	25RB#0	21.83	15.31	34.77	PASS
BAND17	10MHz	QPSK	23780	1RB#0	24.04	17.52	34.77	PASS
BAND17	10MHz	QPSK	23780	1RB#24	23.82	17.30	34.77	PASS
BAND17	10MHz	QPSK	23780	1RB#49	23.89	17.37	34.77	PASS
BAND17	10MHz	QPSK	23780	25RB#0	22.45	15.93	34.77	PASS
BAND17	10MHz	QPSK	23780	25RB#12	22.52	16.00	34.77	PASS
BAND17	10MHz	QPSK	23780	25RB#25	22.36	15.84	34.77	PASS
BAND17	10MHz	QPSK	23780	50RB#0	22.44	15.92	34.77	PASS
BAND17	10MHz	QPSK	23790	1RB#0	23.91	17.39	34.77	PASS
BAND17	10MHz	QPSK	23790	1RB#24	23.79	17.27	34.77	PASS
BAND17	10MHz	QPSK	23790	1RB#49	23.93	17.41	34.77	PASS
BAND17	10MHz	QPSK	23790	25RB#0	22.57	16.05	34.77	PASS
BAND17	10MHz	QPSK	23790	25RB#12	22.42	15.90	34.77	PASS

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BAND17	10MHz	QPSK	23790	25RB#25	22.38	15.86	34.77	PASS
BAND17	10MHz	QPSK	23790	50RB#0	22.41	15.89	34.77	PASS
BAND17	10MHz	QPSK	23800	1RB#0	23.92	17.40	34.77	PASS
BAND17	10MHz	QPSK	23800	1RB#24	23.75	17.23	34.77	PASS
BAND17	10MHz	QPSK	23800	1RB#49	23.92	17.40	34.77	PASS
BAND17	10MHz	QPSK	23800	25RB#0	22.53	16.01	34.77	PASS
BAND17	10MHz	QPSK	23800	25RB#12	22.41	15.89	34.77	PASS
BAND17	10MHz	QPSK	23800	25RB#25	22.40	15.88	34.77	PASS
BAND17	10MHz	QPSK	23800	50RB#0	22.42	15.90	34.77	PASS
BAND17	10MHz	64QAM	23780	1RB#0	22.21	15.69	34.77	PASS
BAND17	10MHz	64QAM	23780	1RB#24	21.93	15.41	34.77	PASS
BAND17	10MHz	64QAM	23780	1RB#49	22.09	15.57	34.77	PASS
BAND17	10MHz	64QAM	23780	25RB#0	21.00	14.48	34.77	PASS
BAND17	10MHz	64QAM	23780	25RB#12	20.95	14.43	34.77	PASS
BAND17	10MHz	64QAM	23780	25RB#25	21.07	14.55	34.77	PASS
BAND17	10MHz	64QAM	23780	50RB#0	20.92	14.40	34.77	PASS
BAND17	10MHz	64QAM	23790	1RB#0	22.34	15.82	34.77	PASS
BAND17	10MHz	64QAM	23790	1RB#24	21.87	15.35	34.77	PASS
BAND17	10MHz	64QAM	23790	1RB#49	22.18	15.66	34.77	PASS
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BAND17	10MHz	64QAM	23790	25RB#12	21.01	14.49	34.77	PASS
BAND17	10MHz	64QAM	23790	25RB#25	21.07	14.55	34.77	PASS
BAND17	10MHz	64QAM	23790	50RB#0	20.98	14.46	34.77	PASS
BAND17	10MHz	64QAM	23800	1RB#0	22.26	15.74	34.77	PASS
BAND17	10MHz	64QAM	23800	1RB#24	21.79	15.27	34.77	PASS
BAND17	10MHz	64QAM	23800	1RB#49	22.15	15.63	34.77	PASS
BAND17	10MHz	64QAM	23800	25RB#0	20.95	14.43	34.77	PASS
BAND17	10MHz	64QAM	23800	25RB#12	20.94	14.42	34.77	PASS
BAND17	10MHz	64QAM	23800	25RB#25	20.96	14.44	34.77	PASS
BAND17	10MHz	64QAM	23800	50RB#0	20.97	14.45	34.77	PASS
BAND17	10MHz	16QAM	23780	1RB#0	23.18	16.66	34.77	PASS
BAND17	10MHz	16QAM	23780	1RB#24	22.83	16.31	34.77	PASS
BAND17	10MHz	16QAM	23780	1RB#49	23.04	16.52	34.77	PASS
BAND17	10MHz	16QAM	23780	25RB#0	21.88	15.36	34.77	PASS
BAND17	10MHz	16QAM	23780	25RB#12	21.96	15.44	34.77	PASS
BAND17	10MHz	16QAM	23780	25RB#25	21.81	15.29	34.77	PASS
BAND17	10MHz	16QAM	23780	50RB#0	21.89	15.37	34.77	PASS
BAND17	10MHz	16QAM	23790	1RB#0	23.07	16.55	34.77	PASS
BAND17	10MHz	16QAM	23790	1RB#24	22.84	16.32	34.77	PASS
BAND17	10MHz	16QAM	23790	1RB#49	23.05	16.53	34.77	PASS
BAND17	10MHz	16QAM	23790	25RB#0	21.90	15.38	34.77	PASS

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BAND17	10MHz	16QAM	23790	25RB#12	21.84	15.32	34.77	PASS
BAND17	10MHz	16QAM	23790	25RB#25	21.82	15.30	34.77	PASS
BAND17	10MHz	16QAM	23790	50RB#0	21.83	15.31	34.77	PASS
BAND17	10MHz	16QAM	23800	1RB#0	23.24	16.72	34.77	PASS
BAND17	10MHz	16QAM	23800	1RB#24	22.83	16.31	34.77	PASS
BAND17	10MHz	16QAM	23800	1RB#49	23.16	16.64	34.77	PASS
BAND17	10MHz	16QAM	23800	25RB#0	21.97	15.45	34.77	PASS
BAND17	10MHz	16QAM	23800	25RB#12	21.86	15.34	34.77	PASS
BAND17	10MHz	16QAM	23800	25RB#25	21.83	15.31	34.77	PASS
BAND17	10MHz	16QAM	23800	50RB#0	21.84	15.32	34.77	PASS

Note:

a: For getting the EIRP (Efficient Isotropic Radiated Power) in substitution method, the following formula should be taken to calculate it,

$$\text{ERP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBd]}$$

$$\text{EIRP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBi]}$$

b: SGP=Signal Generator Level

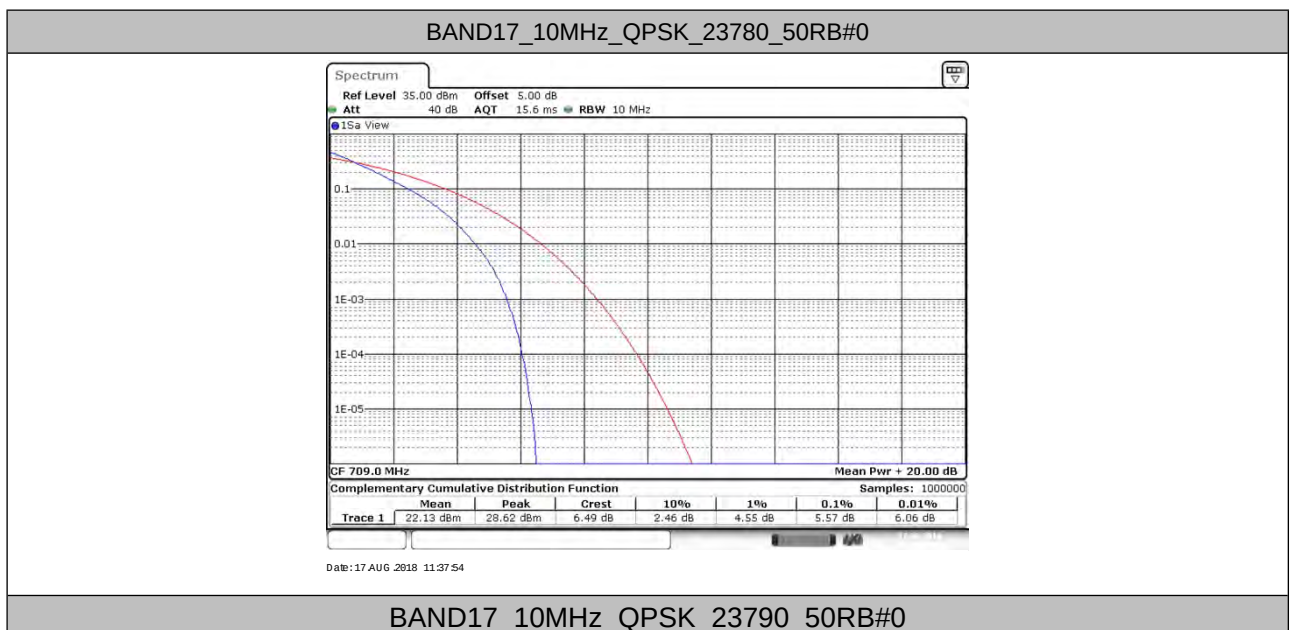


2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
BAND17	10MHz	QPSK	23780	50RB#0	5.57	13	PASS
BAND17	10MHz	QPSK	23790	50RB#0	5.59	13	PASS
BAND17	10MHz	QPSK	23800	50RB#0	5.33	13	PASS
BAND17	10MHz	64QAM	23780	50RB#0	6.49	13	PASS
BAND17	10MHz	64QAM	23790	50RB#0	6.58	13	PASS
BAND17	10MHz	64QAM	23800	50RB#0	6.38	13	PASS
BAND17	10MHz	16QAM	23780	50RB#0	6.14	13	PASS
BAND17	10MHz	16QAM	23790	50RB#0	6.20	13	PASS
BAND17	10MHz	16QAM	23800	50RB#0	6.14	13	PASS

2.2. Test Plots

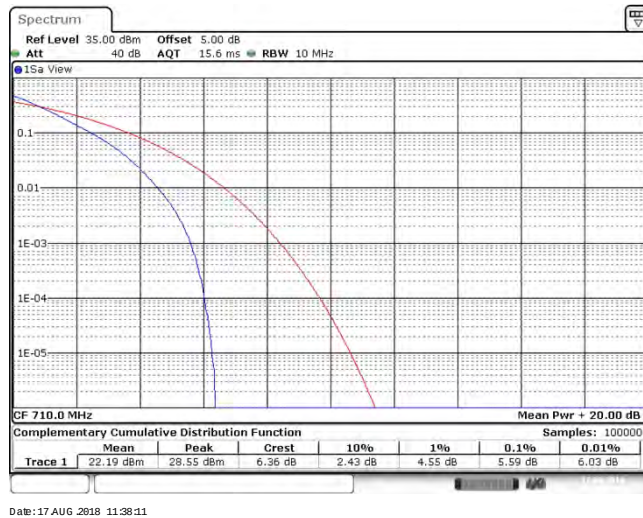




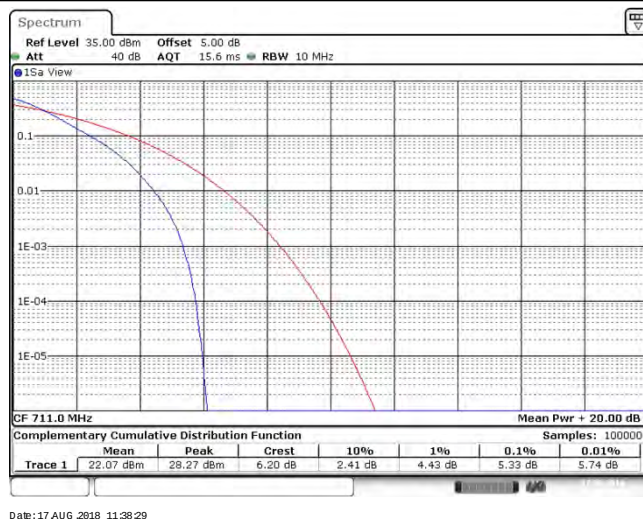
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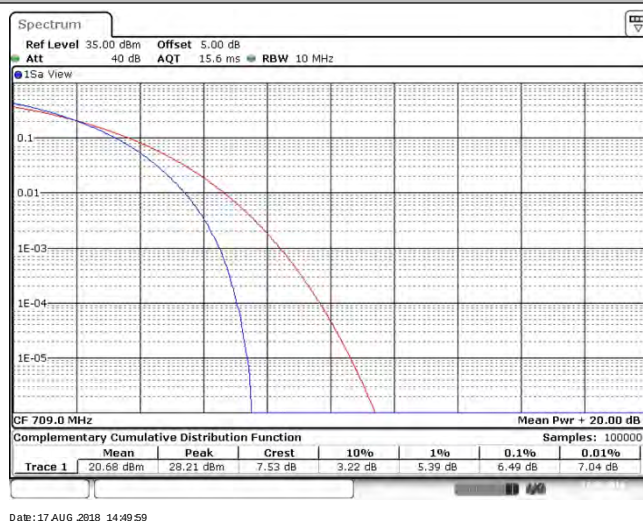
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BAND17_10MHz_QPSK_23800_50RB#0



BAND17_10MHz_64QAM_23780_50RB#0



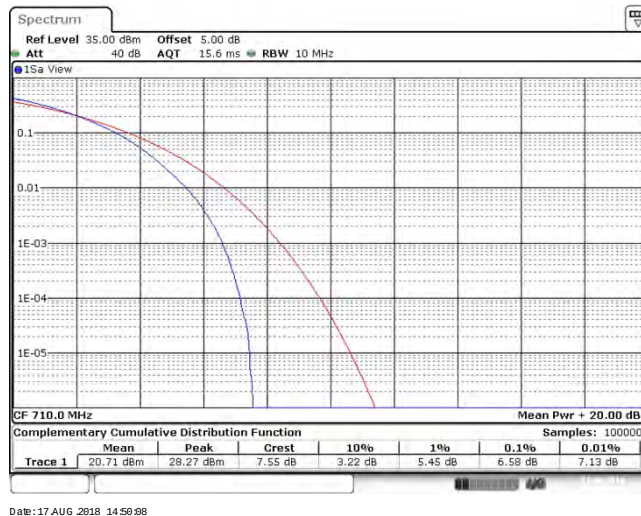
BAND17_10MHz_64QAM_23790_50RB#0



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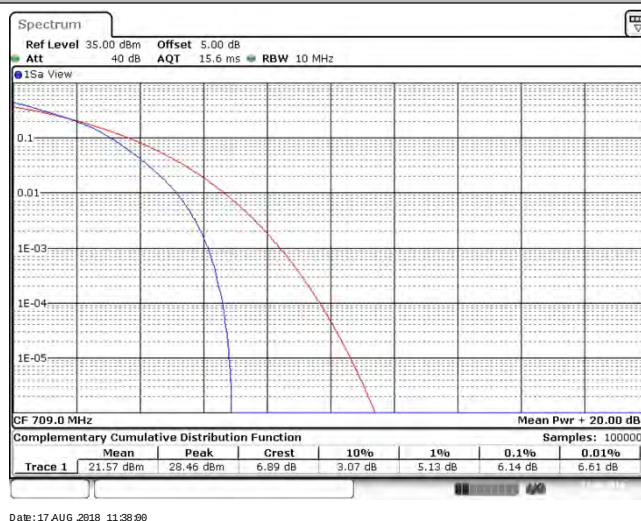
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BAND17_10MHz_64QAM_23800_50RB#0



BAND17_10MHz_16QAM_23780_50RB#0



BAND17_10MHz_16QAM_23790_50RB#0



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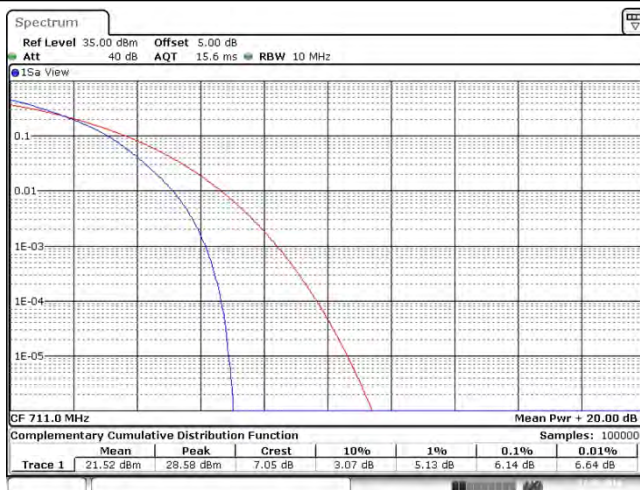
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BAND17_10MHz_16QAM_23800_50RB#0



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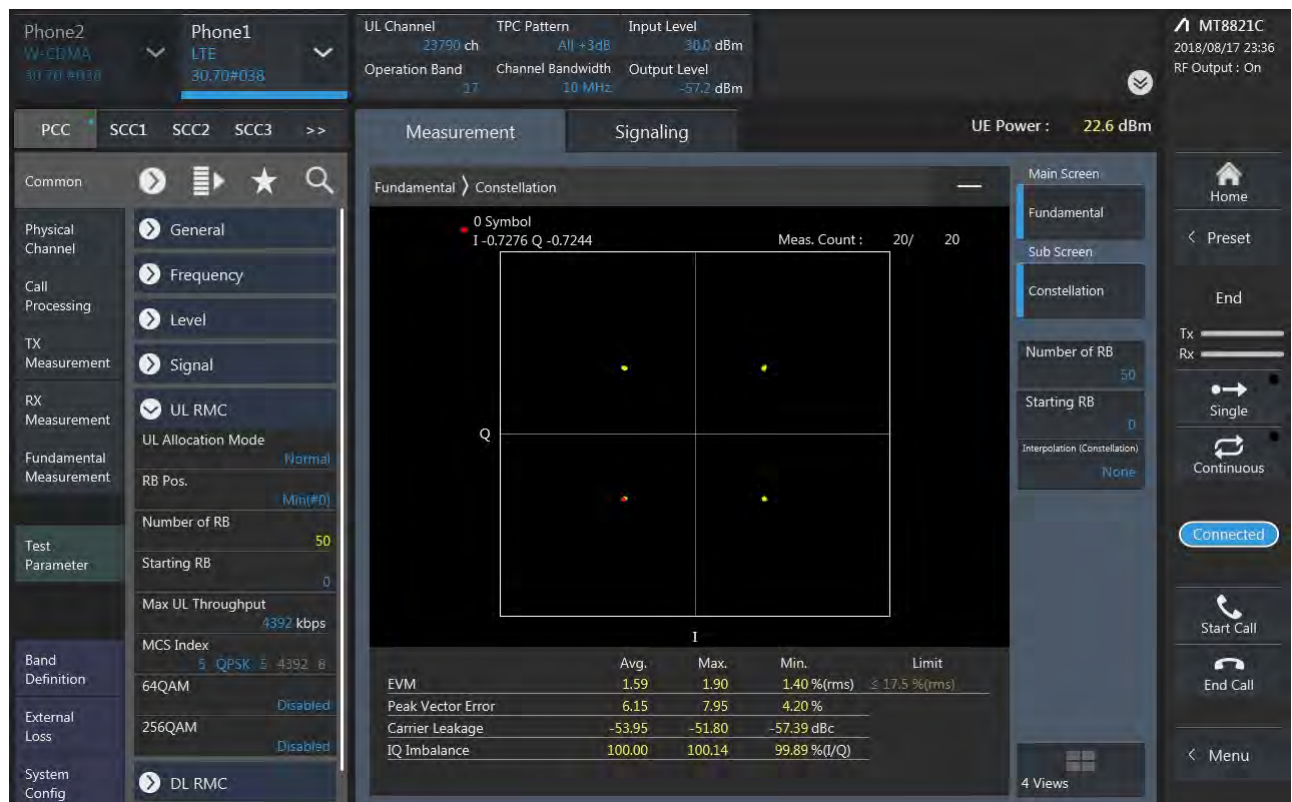


3. Modulation Characteristics

3.1. Test BAND = LTE BAND17

3.1.1. Test Mode = LTE /TM1 10MHz

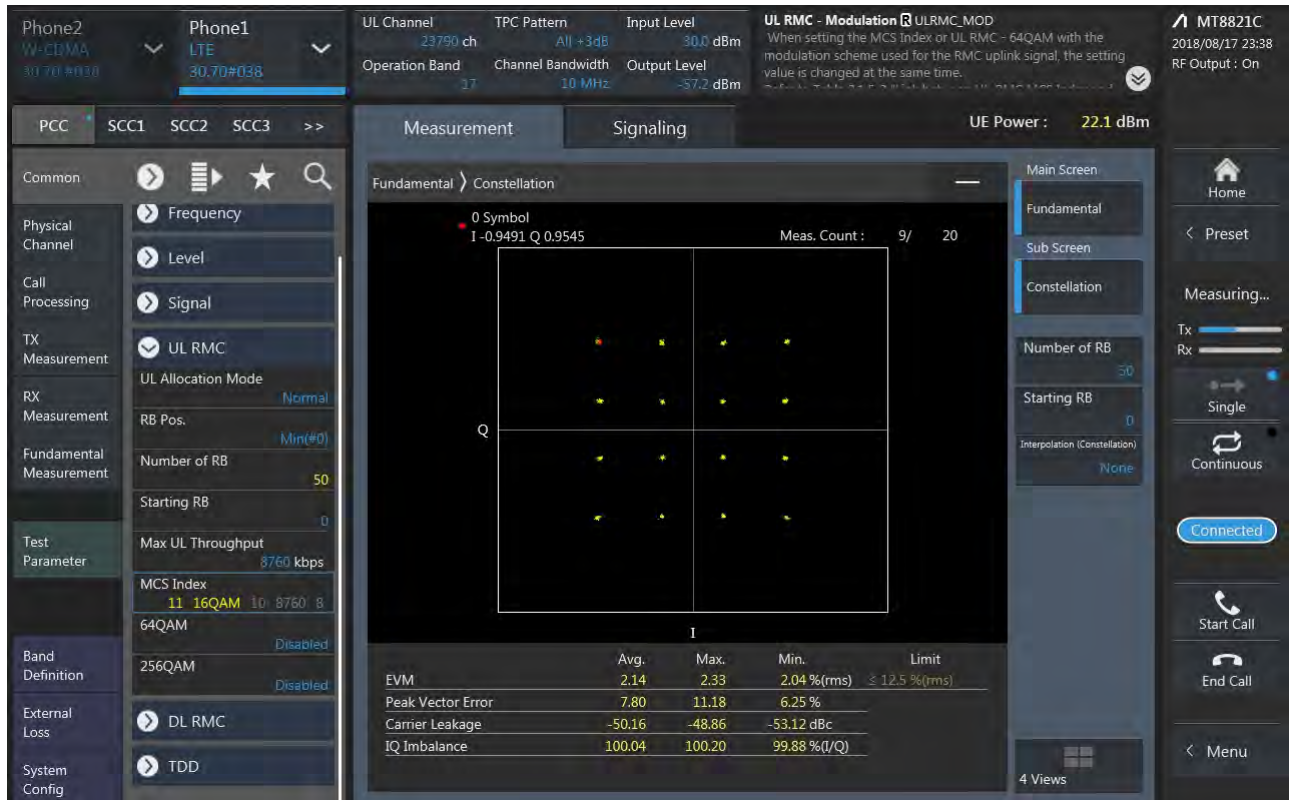
3.1.1.1. Test Channel = MCH





3.1.2. Test Mode = LTE /TM2 10MHz

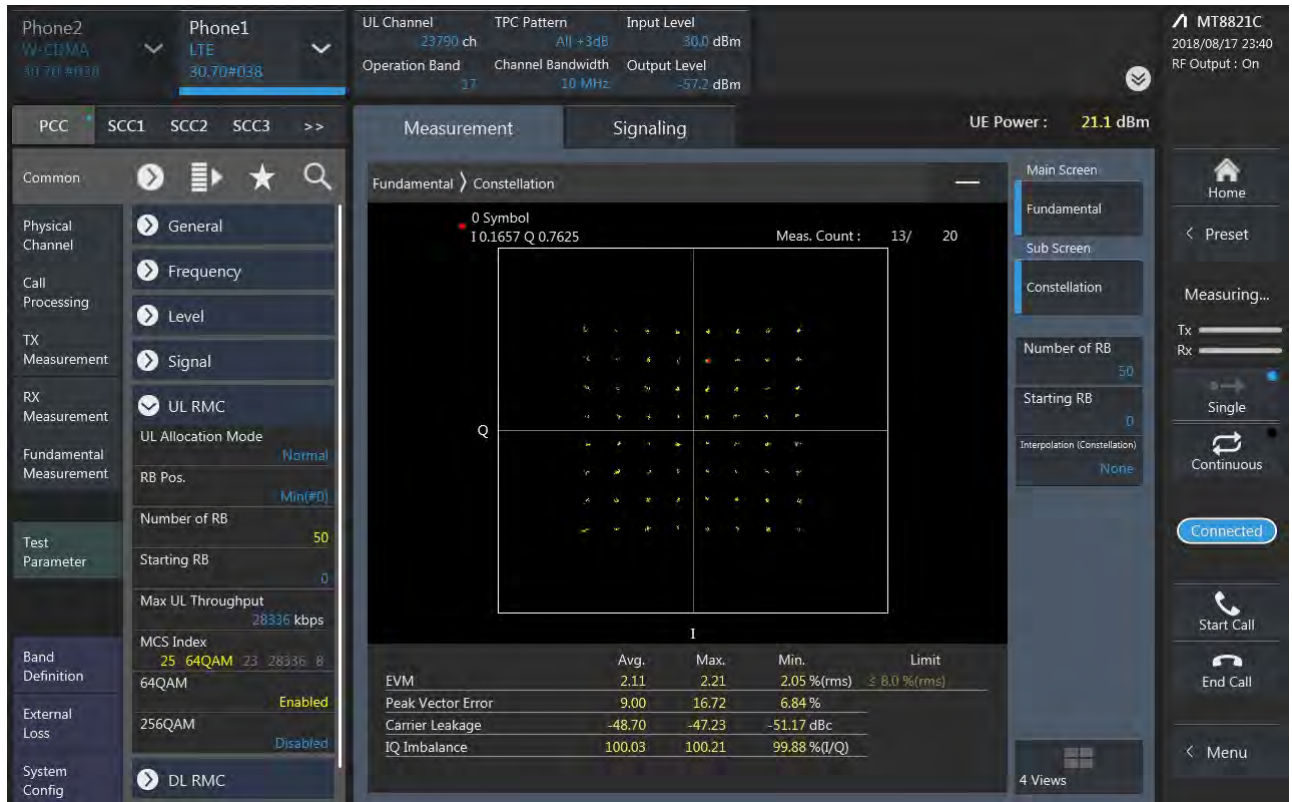
3.1.2.1. Test Channel = MCH





3.1.1. Test Mode = LTE /TM3 10MHz

3.1.1.1. Test Channel = MCH





4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
BAND17	5MHz	QPSK	23755	25RB#0	4.496	4.920	PASS
BAND17	5MHz	QPSK	23790	25RB#0	4.476	4.910	PASS
BAND17	5MHz	QPSK	23825	25RB#0	4.476	4.900	PASS
BAND17	5MHz	64QAM	23755	25RB#0	4.476	4.910	PASS
BAND17	5MHz	64QAM	23790	25RB#0	4.476	4.900	PASS
BAND17	5MHz	64QAM	23825	25RB#0	4.466	4.870	PASS
BAND17	5MHz	16QAM	23755	25RB#0	4.476	4.920	PASS
BAND17	5MHz	16QAM	23790	25RB#0	4.486	4.930	PASS
BAND17	5MHz	16QAM	23825	25RB#0	4.476	4.910	PASS
BAND17	10MHz	QPSK	23780	50RB#0	8.951	9.760	PASS
BAND17	10MHz	QPSK	23790	50RB#0	8.931	9.740	PASS
BAND17	10MHz	QPSK	23800	50RB#0	8.931	9.780	PASS
BAND17	10MHz	64QAM	23780	50RB#0	8.931	9.800	PASS
BAND17	10MHz	64QAM	23790	50RB#0	8.931	9.780	PASS
BAND17	10MHz	64QAM	23800	50RB#0	8.931	9.740	PASS
BAND17	10MHz	16QAM	23780	50RB#0	8.951	9.780	PASS
BAND17	10MHz	16QAM	23790	50RB#0	8.951	9.740	PASS
BAND17	10MHz	16QAM	23800	50RB#0	8.931	9.760	PASS



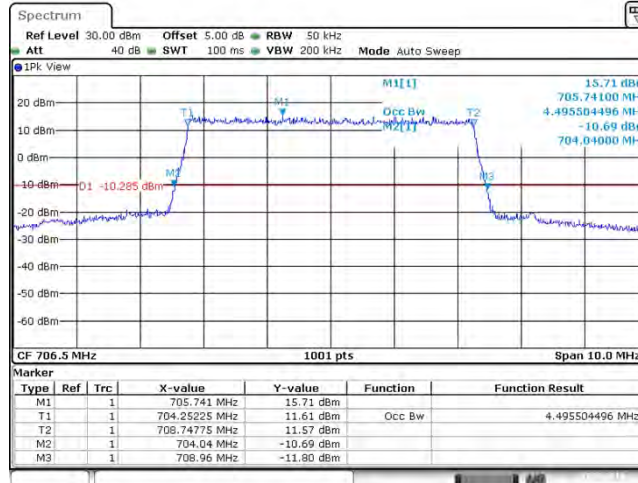
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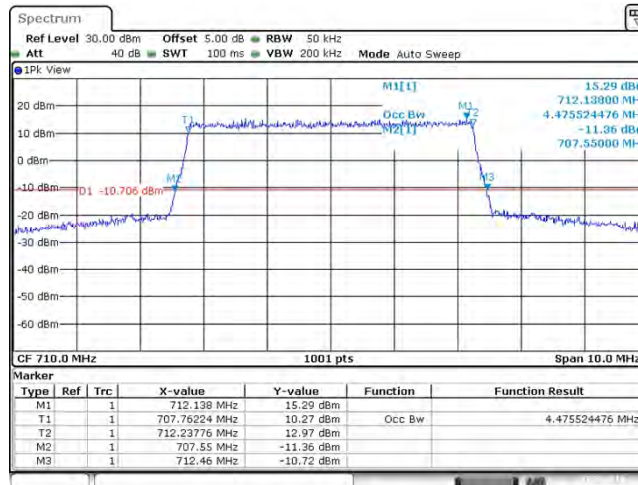
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4.2. Test Plots

BAND17_5MHz_QPSK_23755_25RB#0



BAND17_5MHz_QPSK_23790_25RB#0



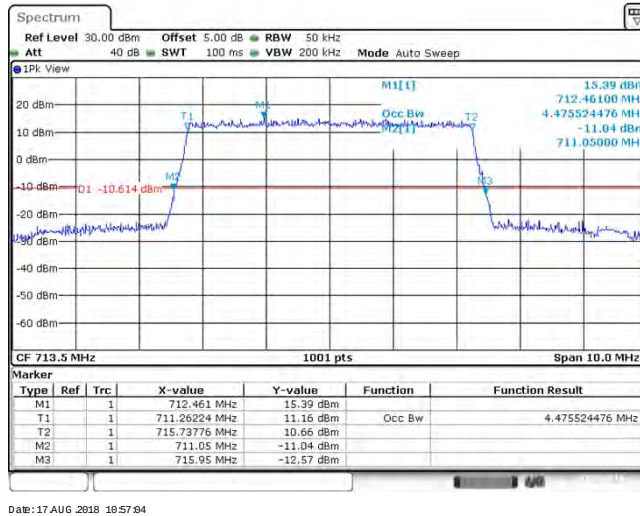
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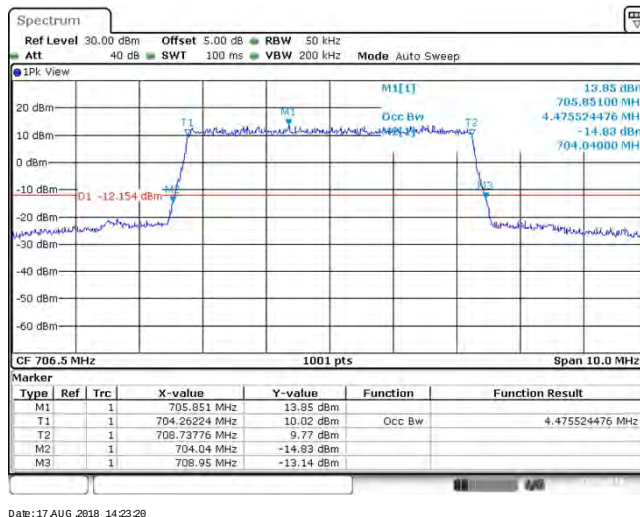
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZEM180700654901

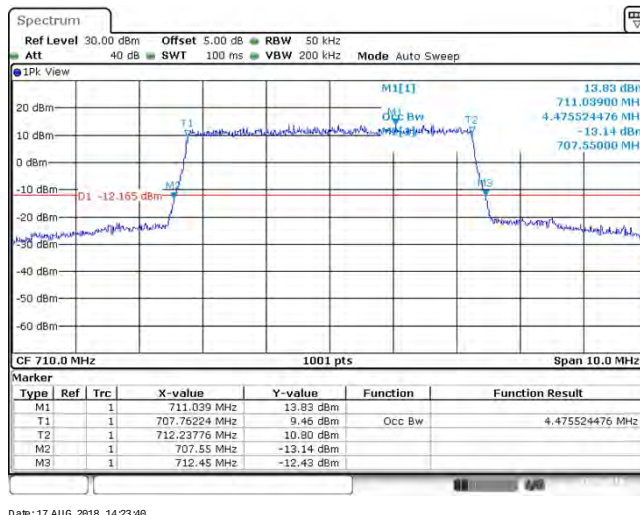
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BAND17_5MHz_64QAM_23755_25RB#0



BAND17_5MHz_64QAM_23790_25RB#0



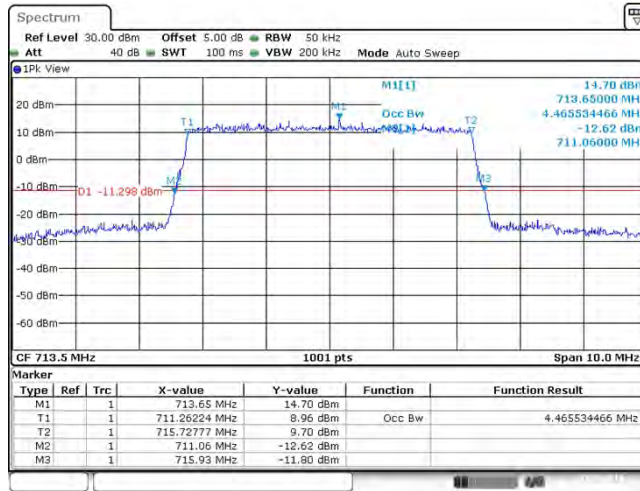
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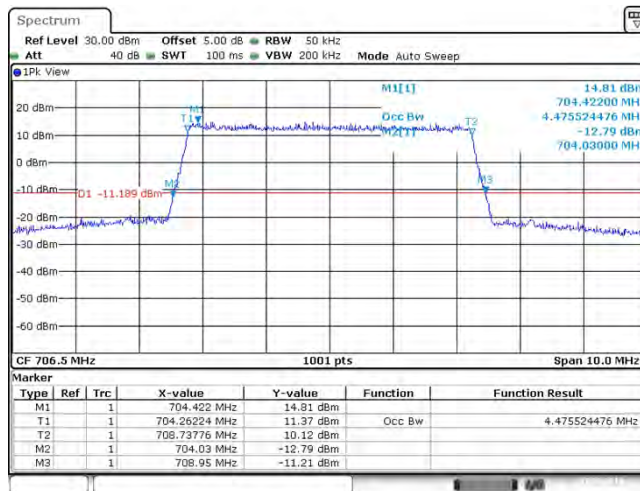
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZEM180700654901

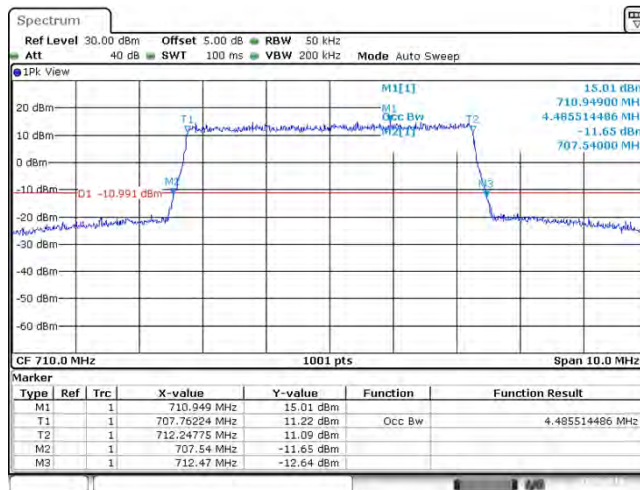
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BAND17_5MHz_16QAM_23755_25RB#0



BAND17_5MHz_16QAM_23790_25RB#0



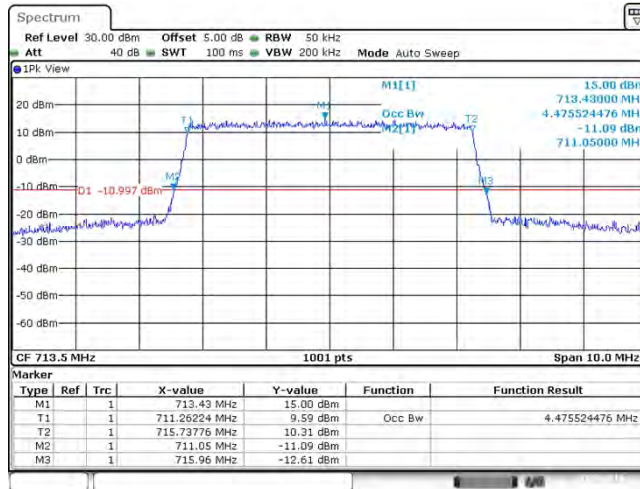
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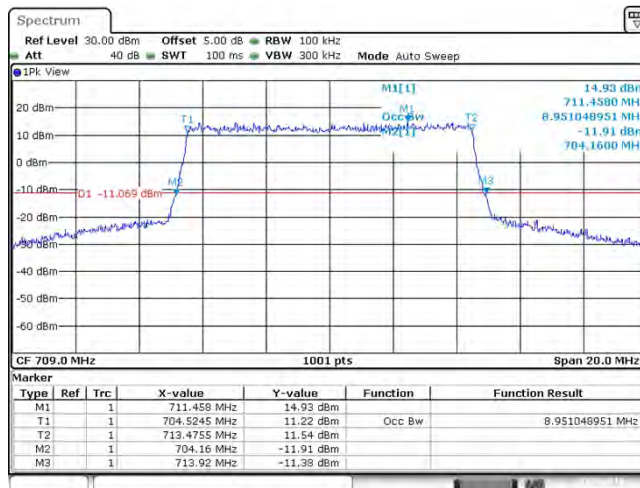
Report No.: SZEM180700654901

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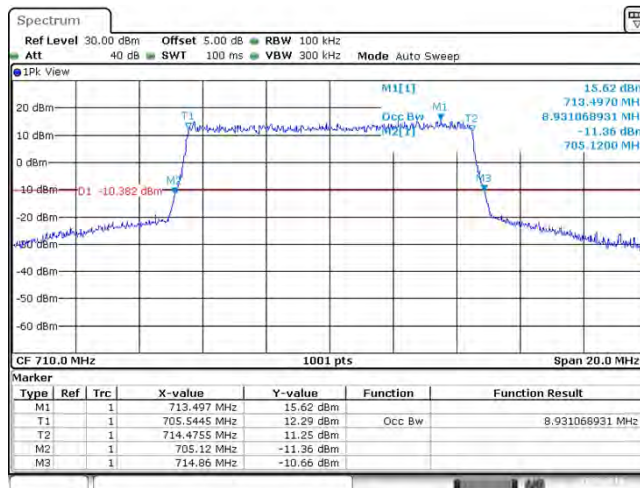
Date: 17 AUG 2018 18:57:22

BAND17_10MHz_QPSK_23780_50RB#0



Date: 17 AUG 2018 18:57:46

BAND17_10MHz_QPSK_23790_50RB#0



Date: 17 AUG 2018 18:58:13

BAND17_10MHz_QPSK_23800_50RB#0

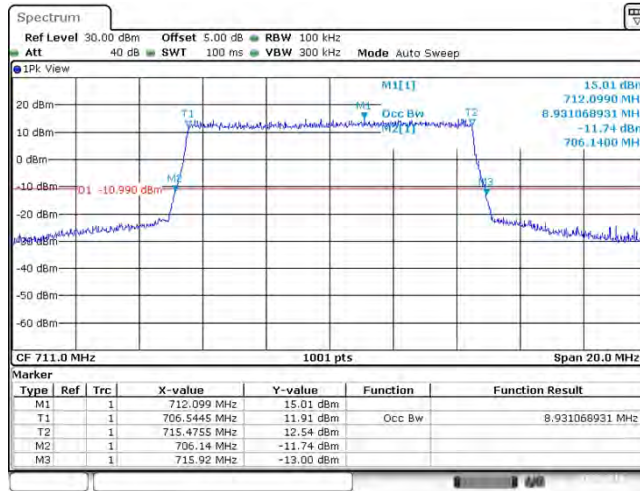
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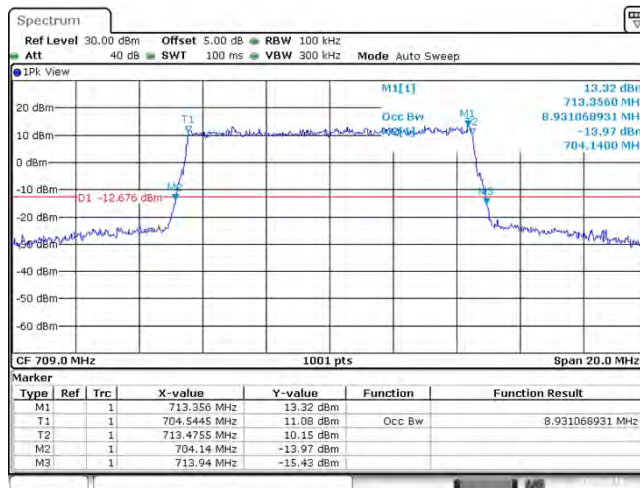
Report No.: SZEM180700654901

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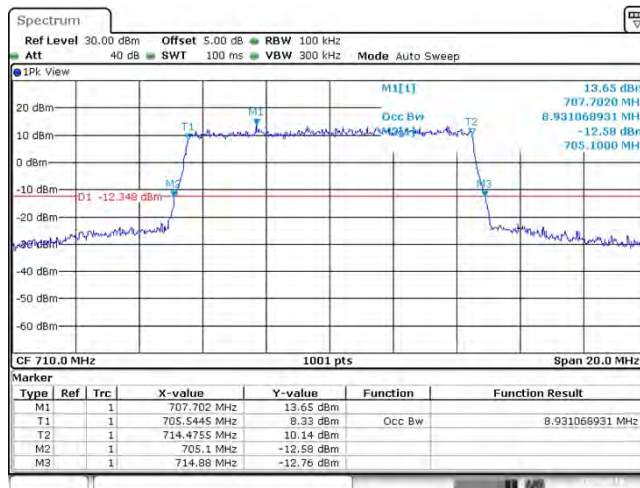
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BAND17_10MHz_64QAM_23790_50RB#0



Date: 17 AUG 2018 14:24:32

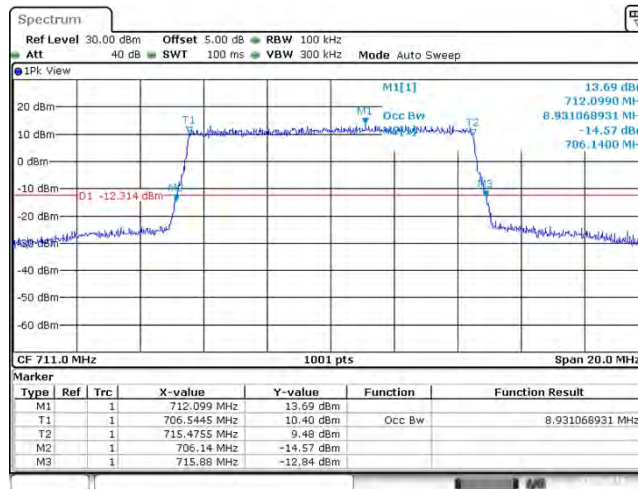
BAND17_10MHz_64QAM_23800_50RB#0



SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

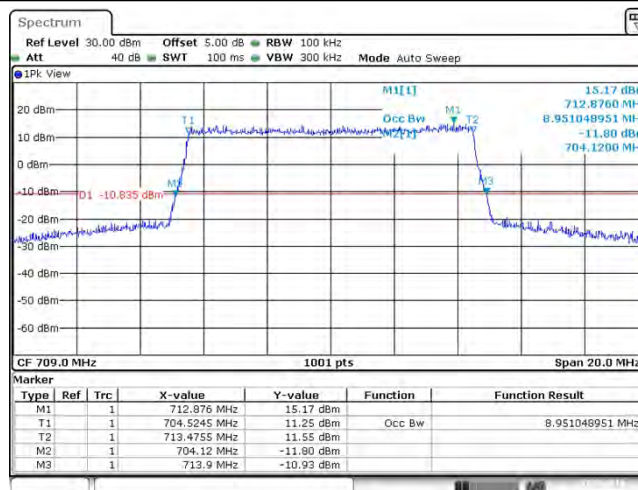
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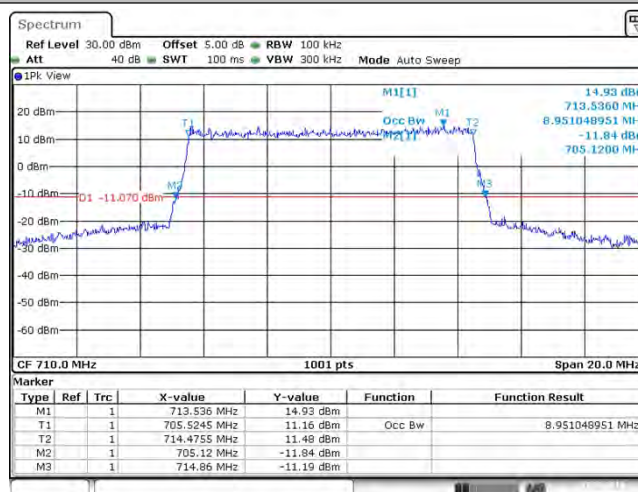
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BAND17_10MHz_16QAM_23780_50RB#0



Date: 17 AUG 2018 18:57:57

BAND17_10MHz_16QAM_23790_50RB#0



Date: 17 AUG 2018 18:58:25

BAND17_10MHz_16QAM_23800_50RB#0

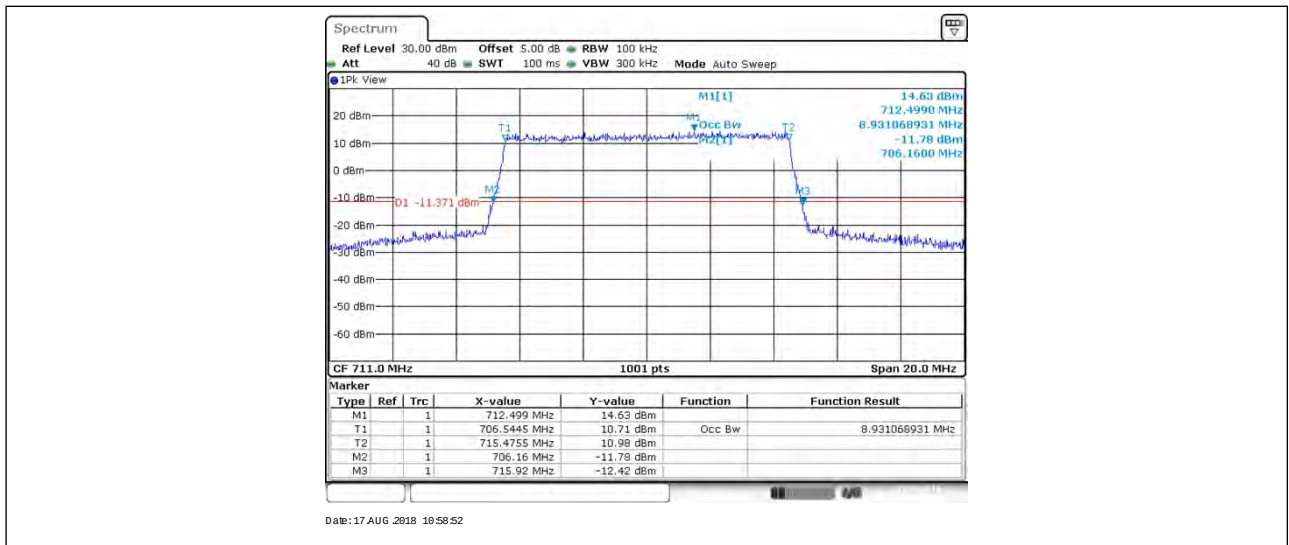
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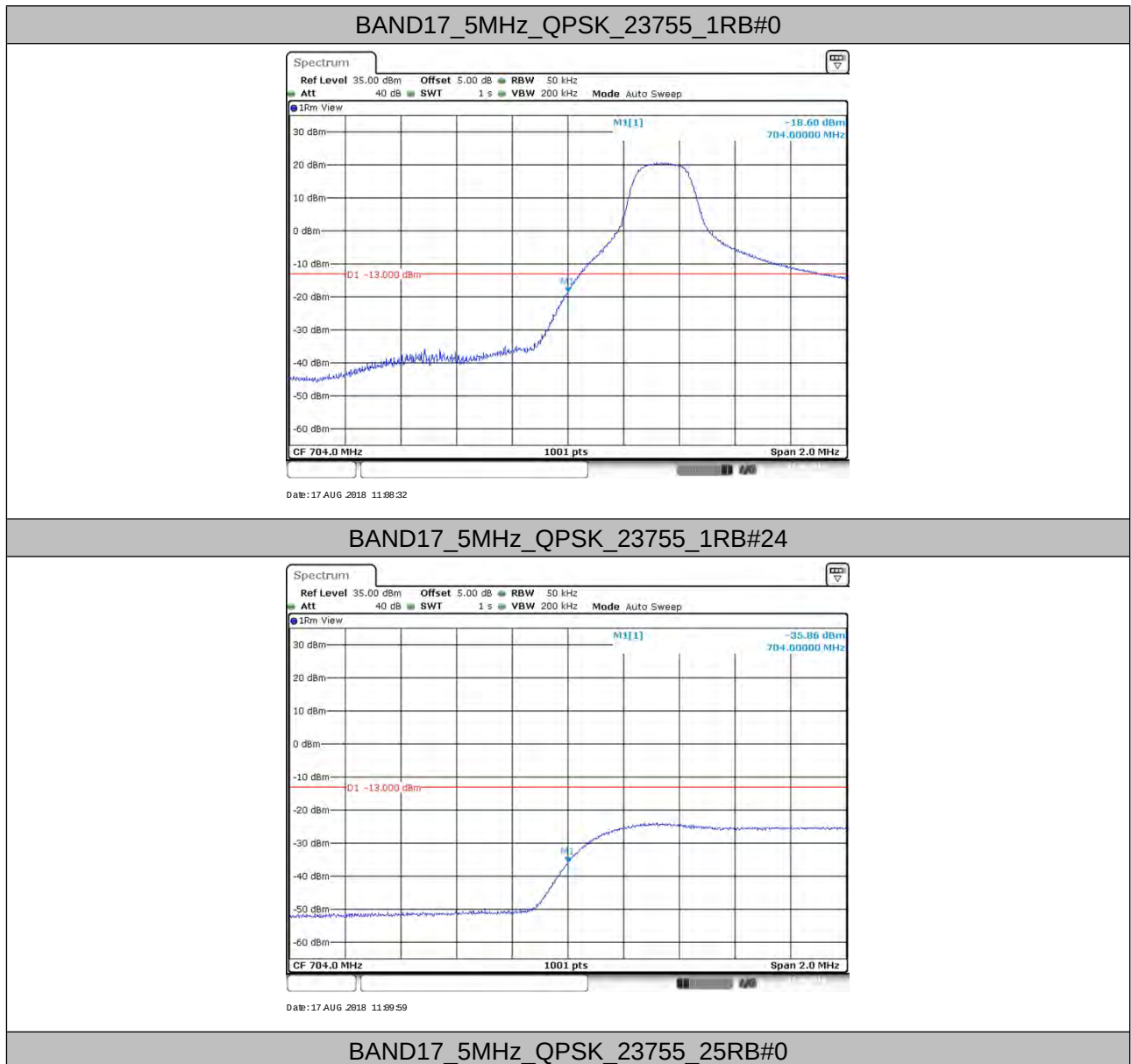
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5. Band Edge Compliance

5.1. Test Plots





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Date: 17 AUG 2018 11:16:07

BAND17_5MHz_QPSK_23825_1RB#24



Date: 17 AUG 2018 11:14:31

BAND17_5MHz_QPSK_23825_25RB#0



Date: 17 AUG 2018 11:17:38

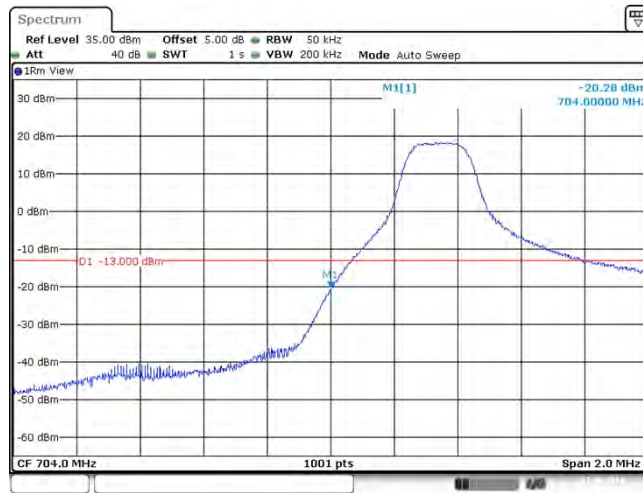
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SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

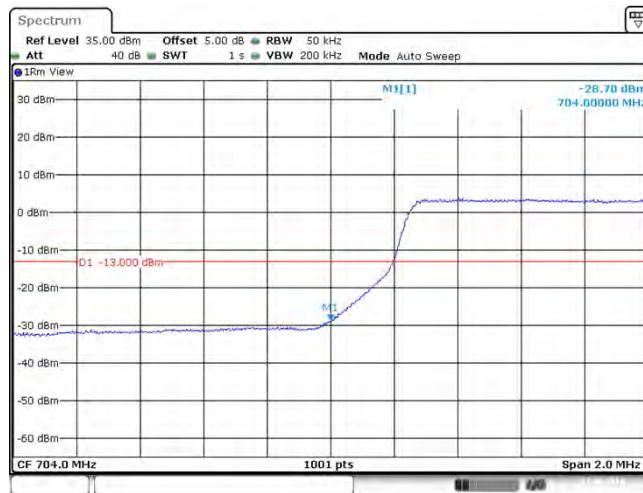
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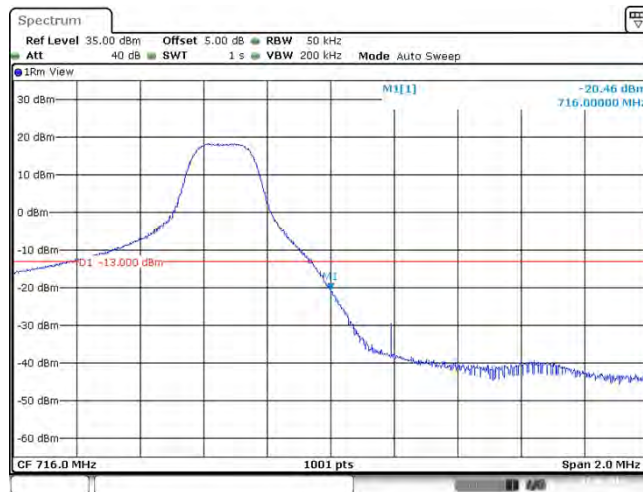
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BAND17_5MHz_64QAM_23755_25RB#0



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BAND17_5MHz_64QAM_23825_1RB#24



Date: 17 AUG 2018 14:30:00

BAND17_5MHz_64QAM_23825_25RB#0



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Date: 17 AUG 2018 14:31:38

BAND17_5MHz_16QAM_23755_1RB#0



Date: 17 AUG 2018 11:09:15

BAND17_5MHz_16QAM_23755_25RB#0



Date: 17 AUG 2018 11:16:50

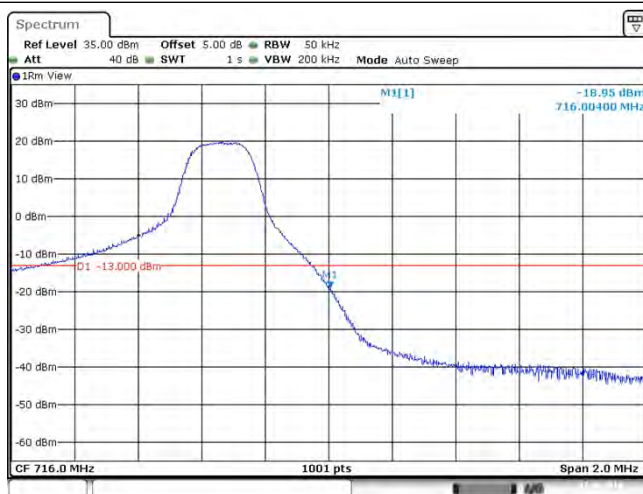
BAND17_5MHz_16QAM_23825_1RB#24



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Date: 17 AUG 2018 11:15:14

BAND17_5MHz_16QAM_23825_25RB#0



Date: 17 AUG 2018 11:18:22

BAND17_10MHz_QPSK_23780_1RB#0



Date: 17 AUG 2018 11:19:19

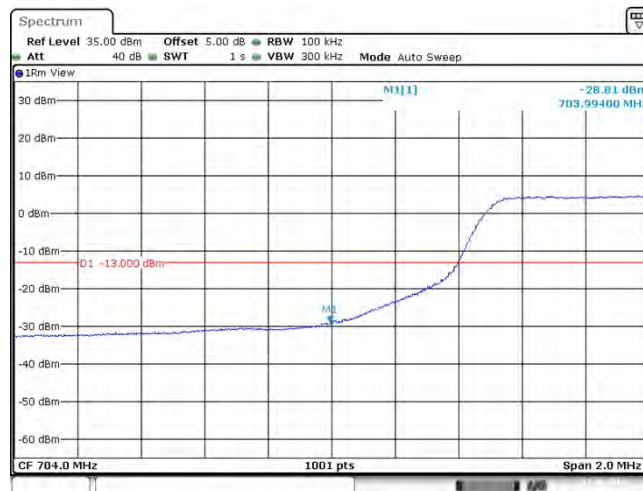
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Date: 17 AUG 2018 11:22:38

BAND17_10MHz_QPSK_23800_1RB#49



Date: 17 AUG 2018 11:29:54

BAND17_10MHz_QPSK_23800_50RB#0



Date: 17 AUG 2018 11:24:33

BAND17_10MHz_64QAM_23780_1RB#0



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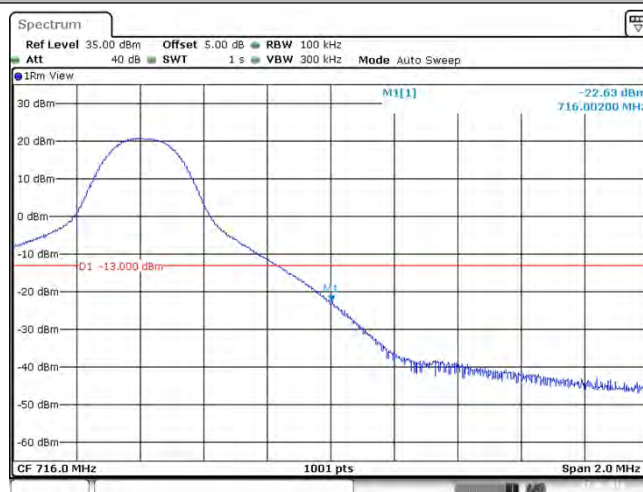
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BAND17_10MHz_64QAM_23800_1RB#49



Date: 17 AUG 2018 14:33:21

BAND17_10MHz_64QAM_23800_50RB#0



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Date: 17 AUG 2018 14:34:58

BAND17_10MHz_16QAM_23780_1RB#0



Date: 17 AUG 2018 11:29:83

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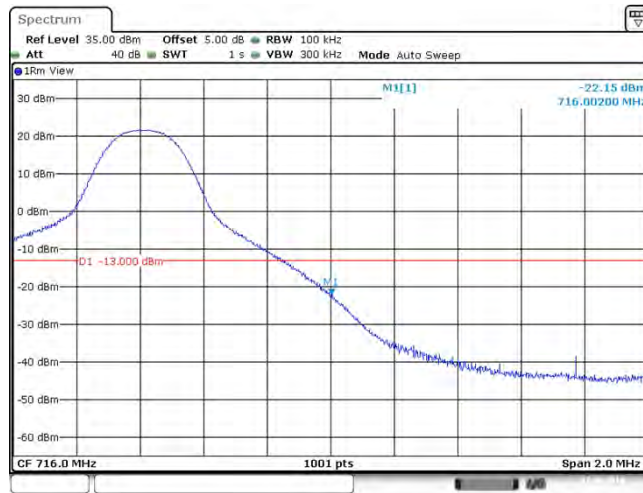
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Date: 17 AUG 2018 11:21:38

BAND17_10MHz_16QAM_23800_50RB#0



Date: 17 AUG 2018 11:24:47

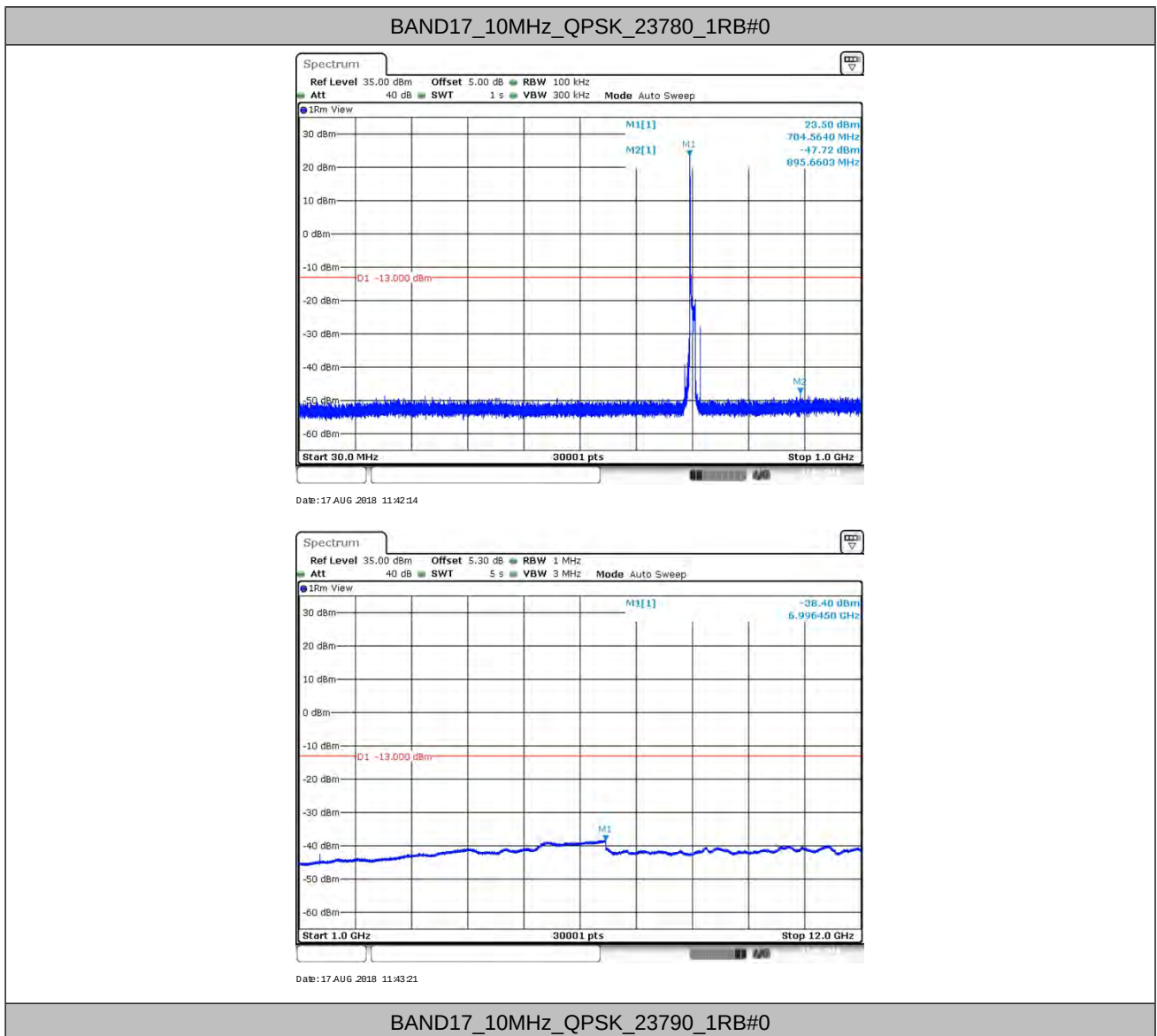


6. Spurious Emission at Antenna Terminal

NOTE1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (Span / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

NOTE2: only the worst case data displayed in this report.

6.1. Test Plots

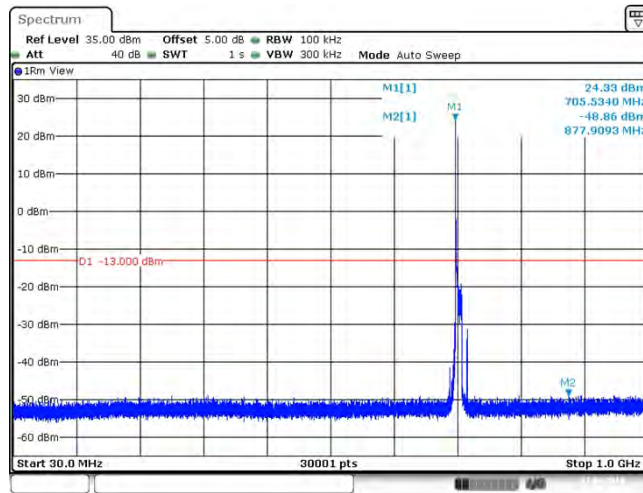




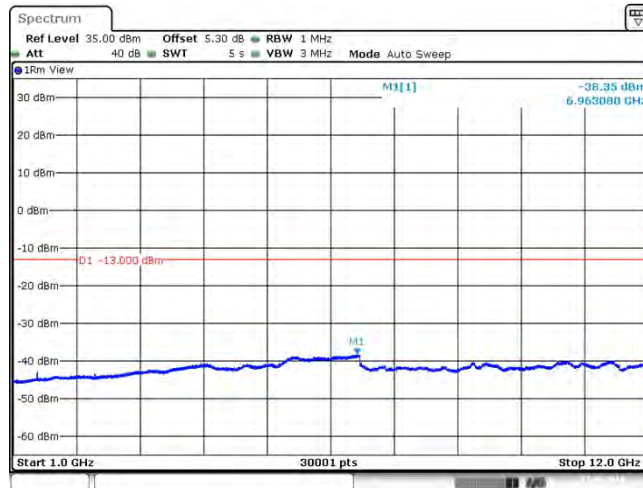
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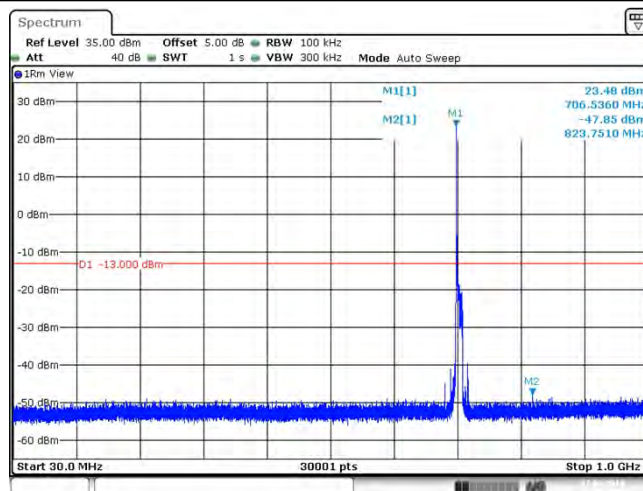


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Date: 17 AUG 2018 11:46:17

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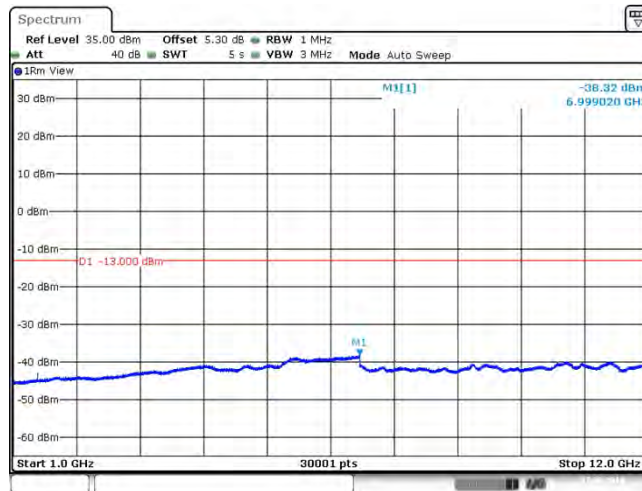
Date: 17 AUG 2018 11:48:04



SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

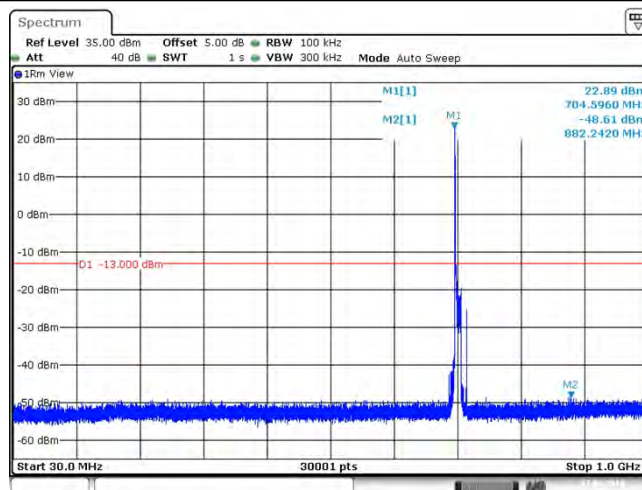
Report No.: SZEM180700654901

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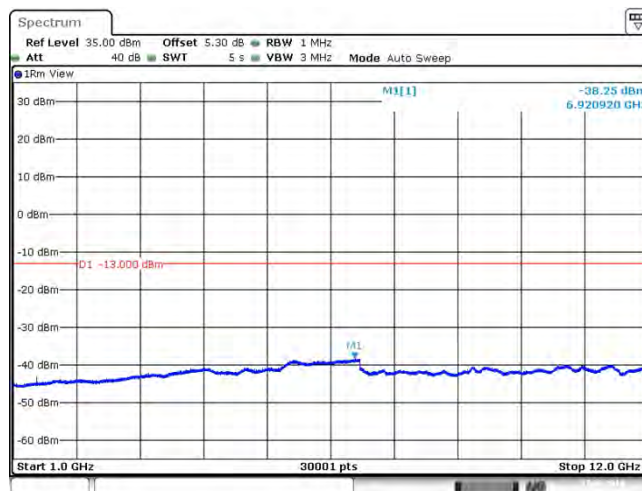


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Date: 17 AUG 2018 14:52:19



Date: 17 AUG 2018 14:53:26

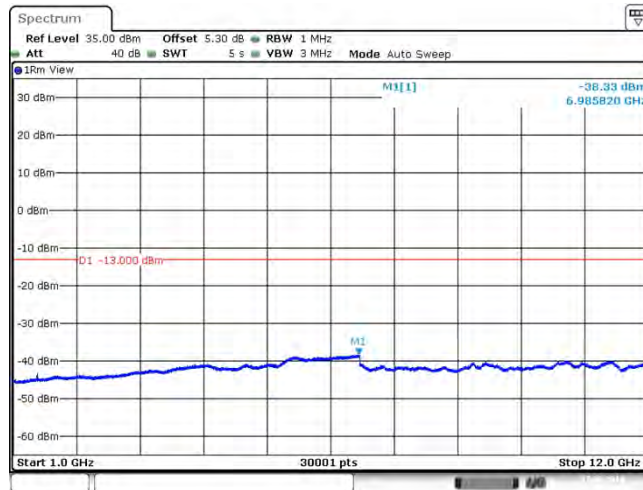
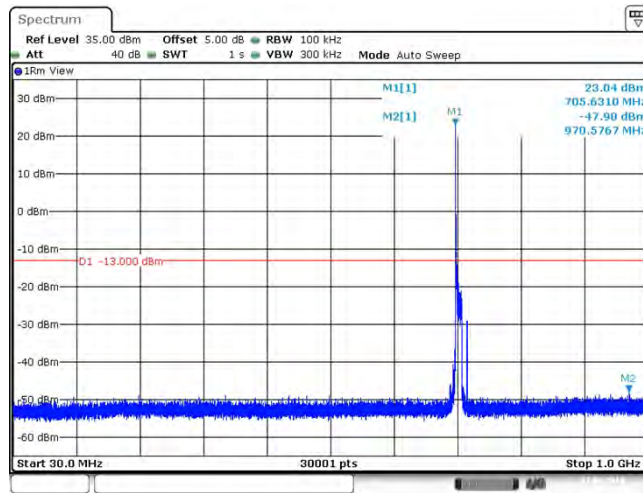
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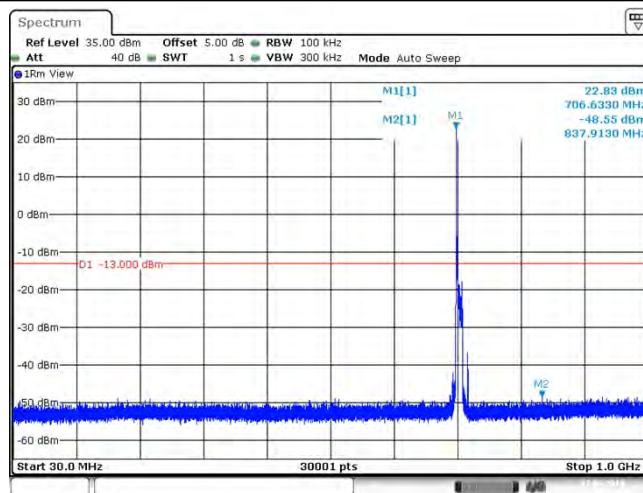
SGS-CSTC Standards Technical Services Co., Ltd.
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BAND17_10MHz_64QAM_23800_1RB#0

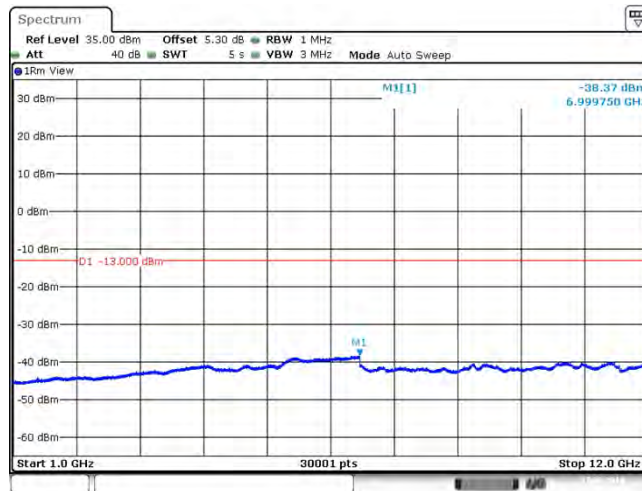




SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

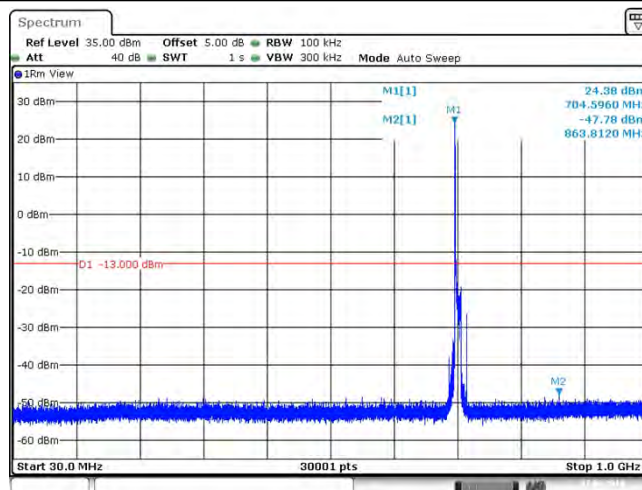
Report No.: SZEM180700654901

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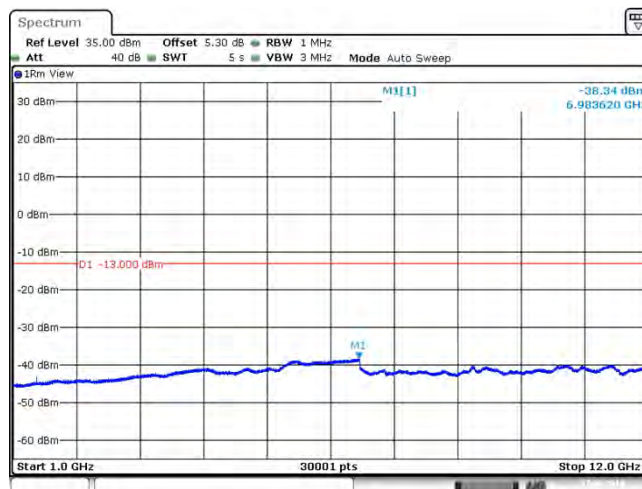


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BAND17_10MHz_16QAM_23780_1RB#0



Date: 17 AUG 2018 11:43:39



Date: 17 AUG 2018 11:44:47

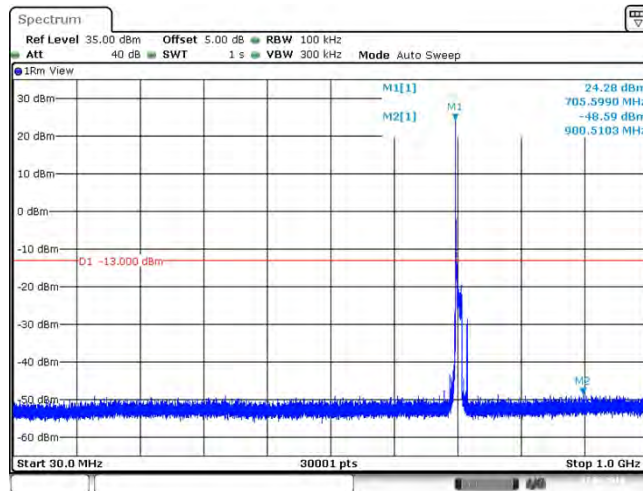
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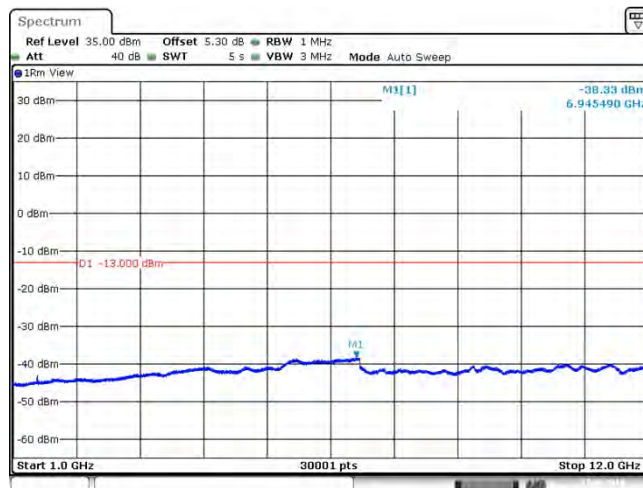
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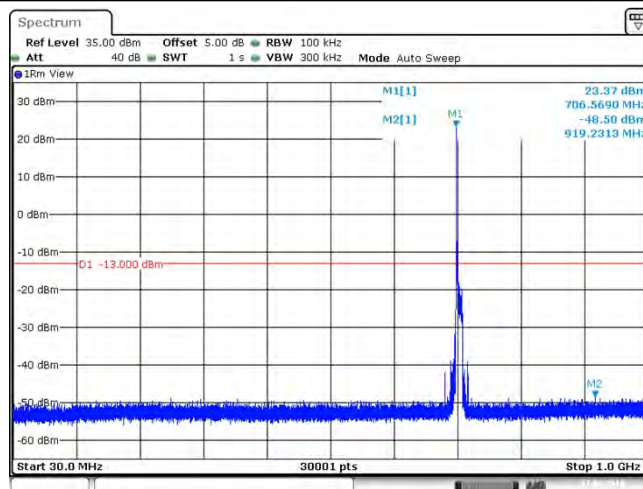


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Date: 17 AUG 2018 11:47:42

BAND17_10MHz_16QAM_23800_1RB#0



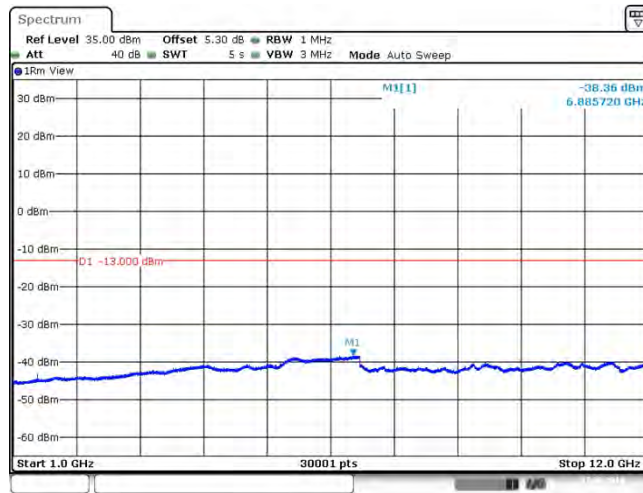
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Date: 17 AUG 2018 11:58:37

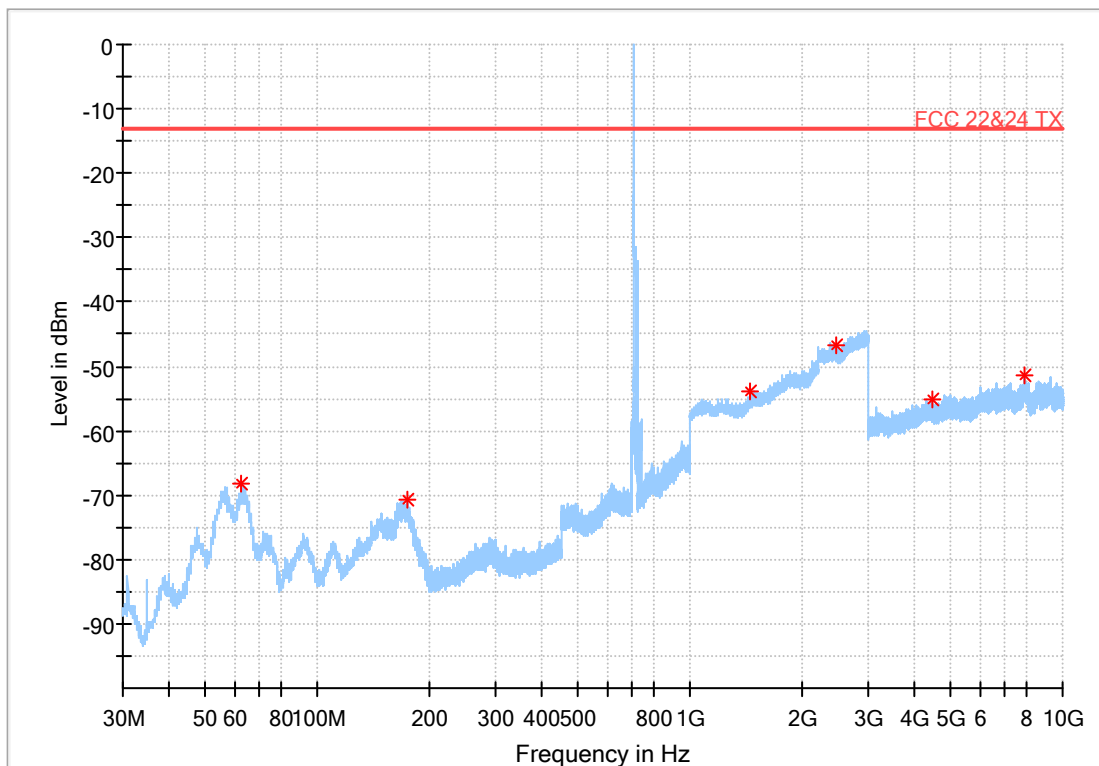
7. Field Strength of Spurious Radiation

7.1. Test BAND = LTE BAND 17-Main Antenna

7.1.1. Test Mode =LTE/TM1 10MHz

7.1.1.1. Test Channel = LCH-H

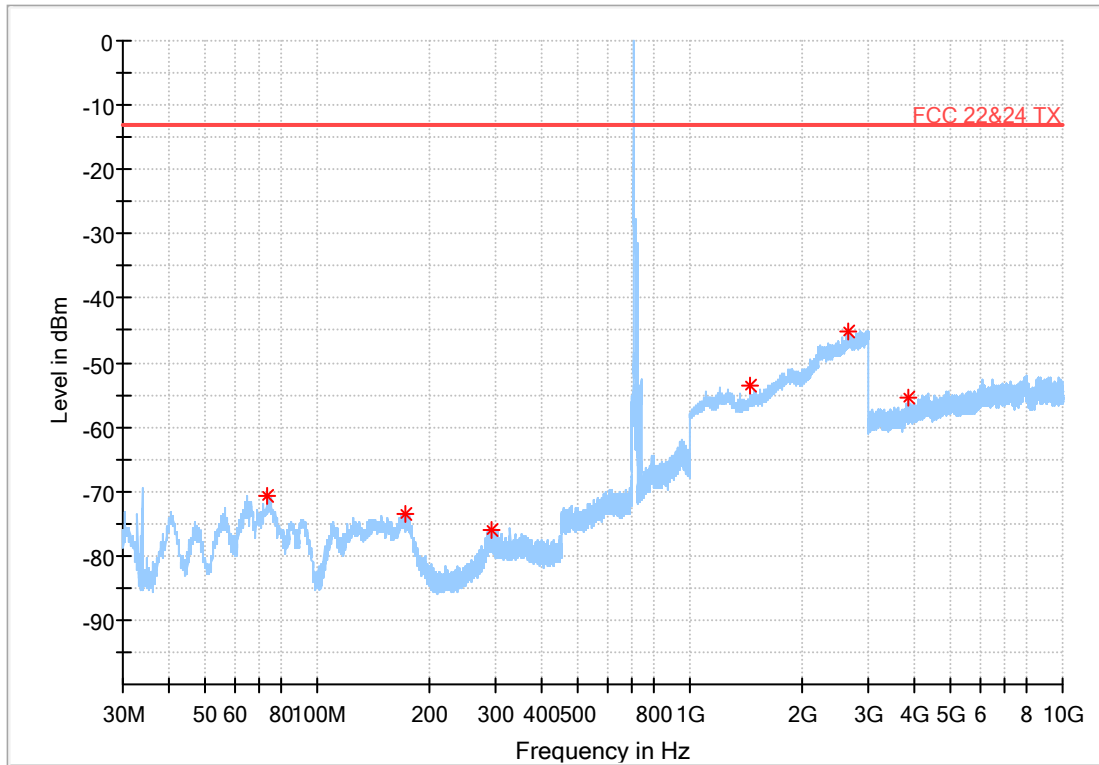
Full Spectrum





7.1.1.2. Test Channel = LCH-V

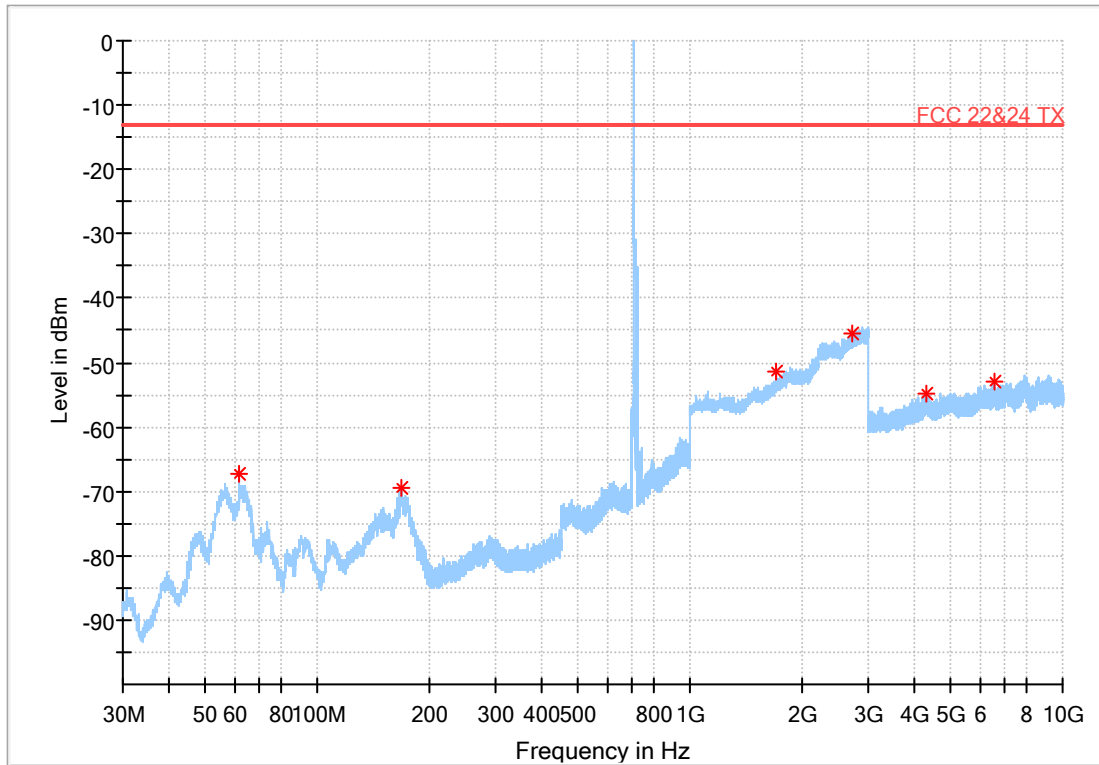
Full Spectrum





7.1.1.3. Test Channel = MCH-H

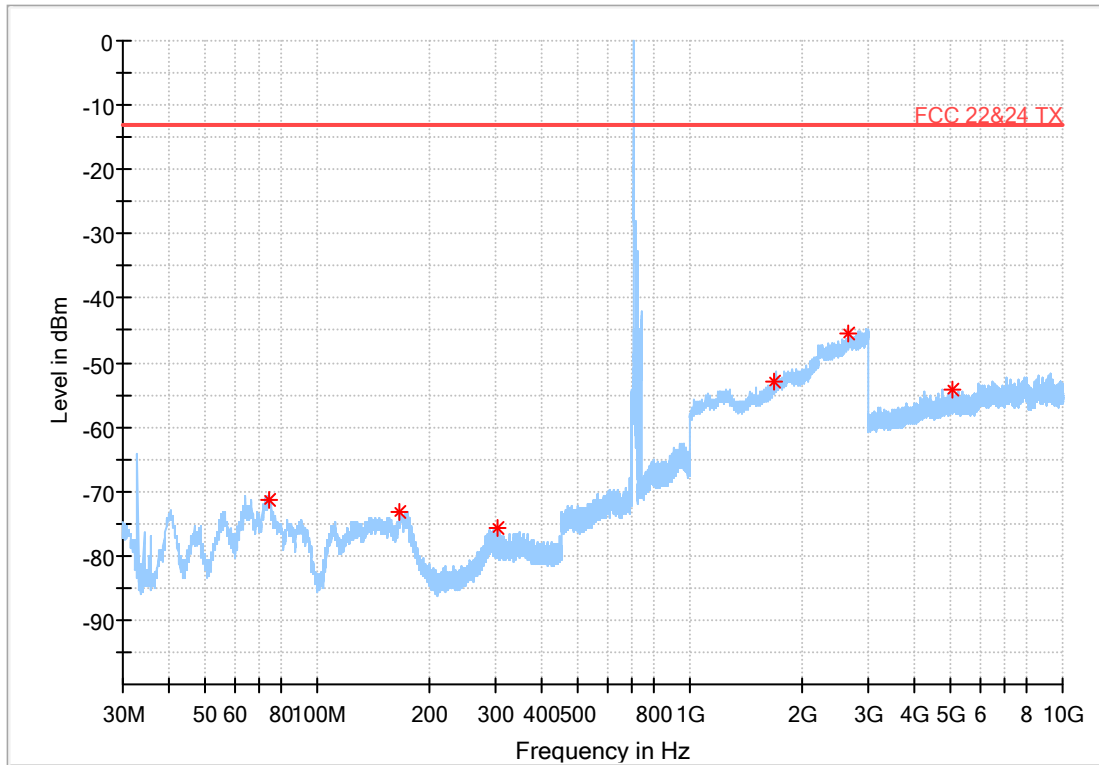
Full Spectrum





7.1.1.4. Test Channel = MCH-V

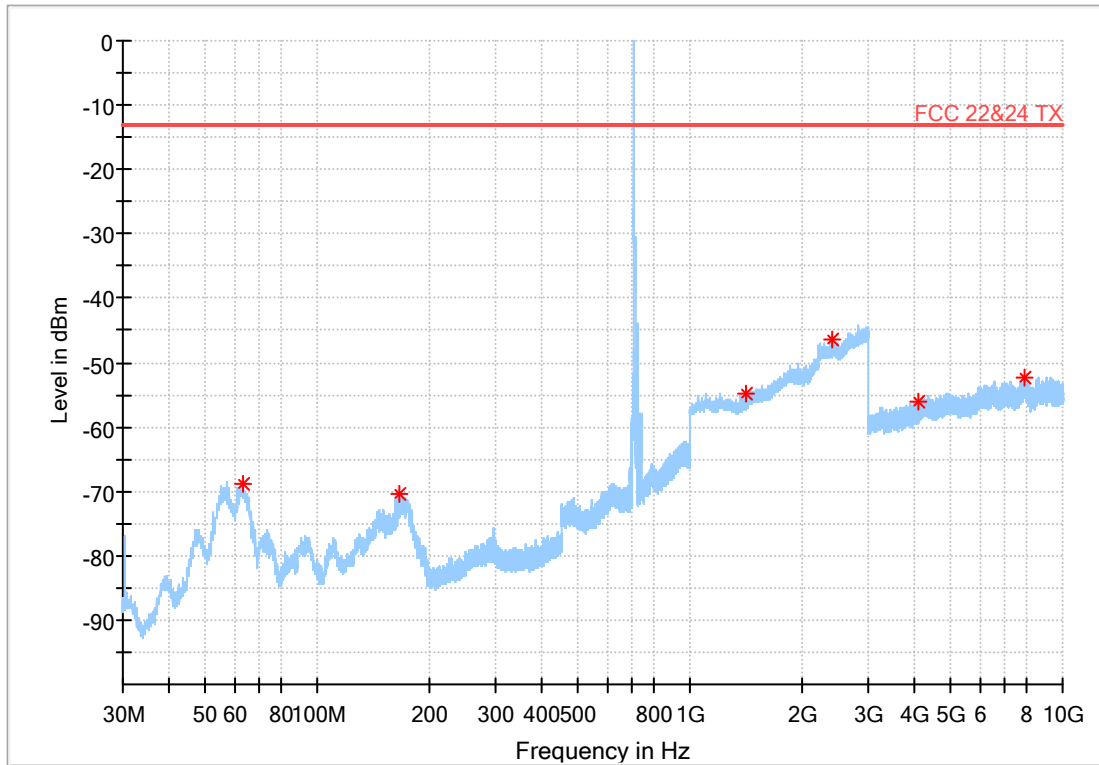
Full Spectrum





7.1.1.5. Test Channel = HCH-H

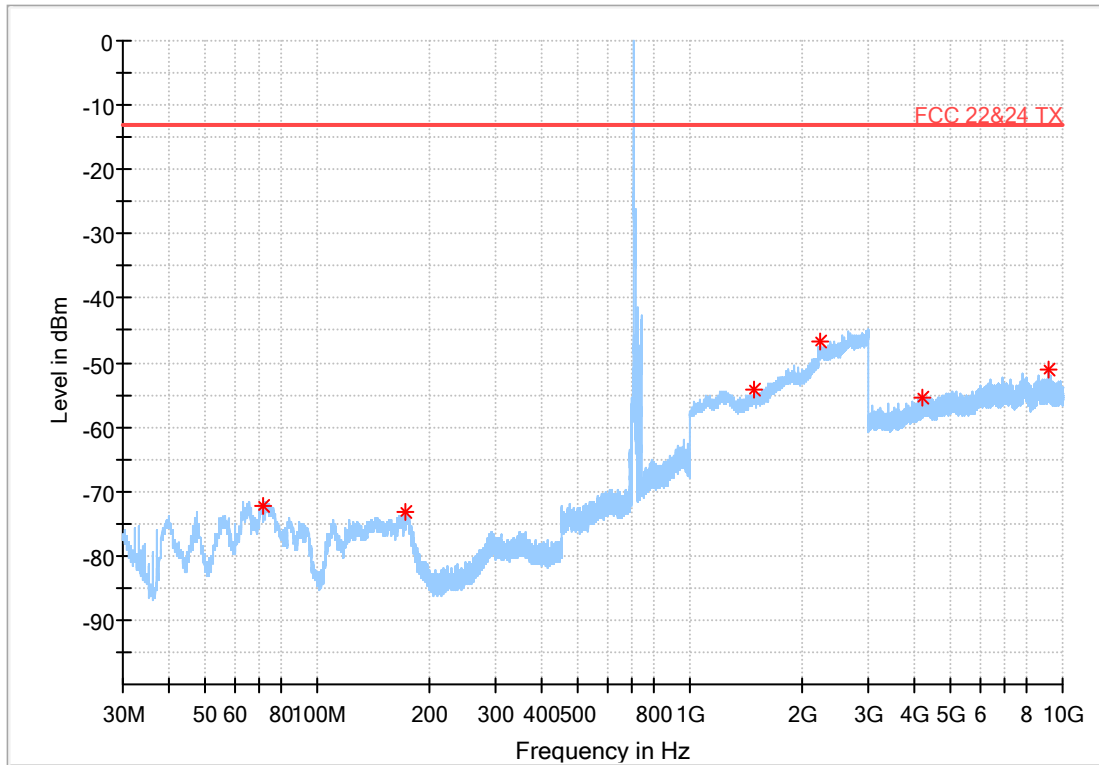
Full Spectrum





7.1.1.6. Test Channel = MCH-V

Full Spectrum



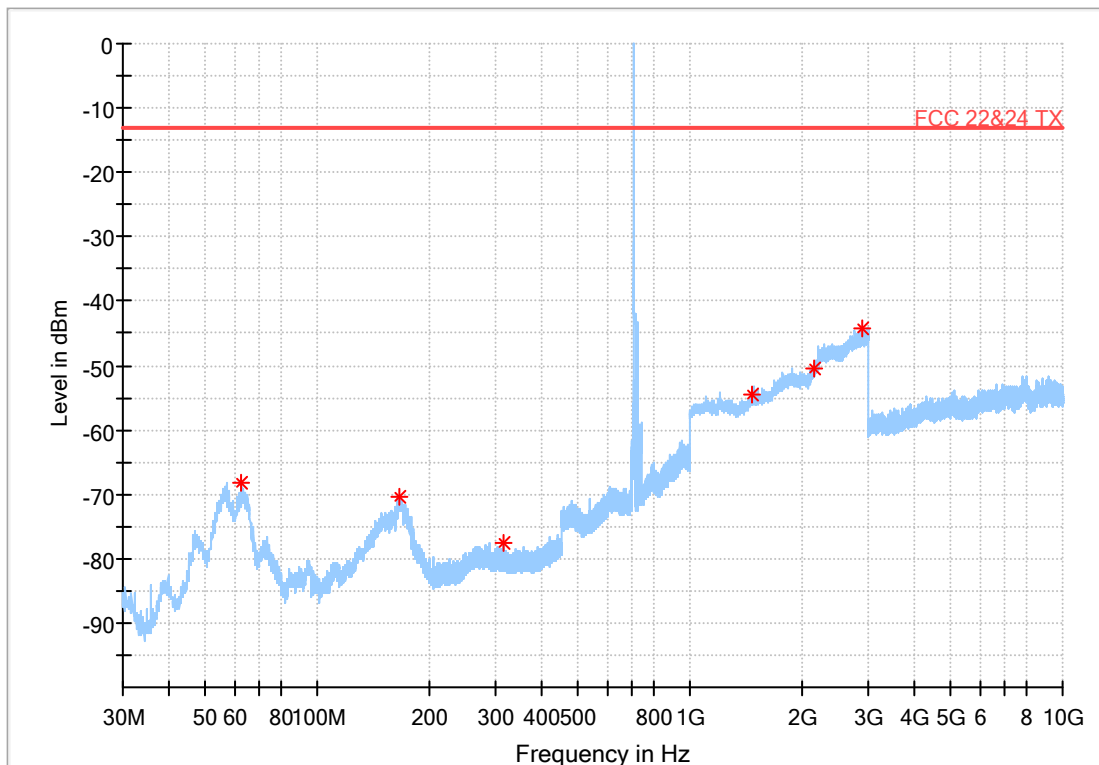


7.2. Test BAND = LTE BAND 17-Second Antenna

7.2.1. Test Mode =LTE/TM1 10MHz

7.2.1.1. Test Channel = LCH-H

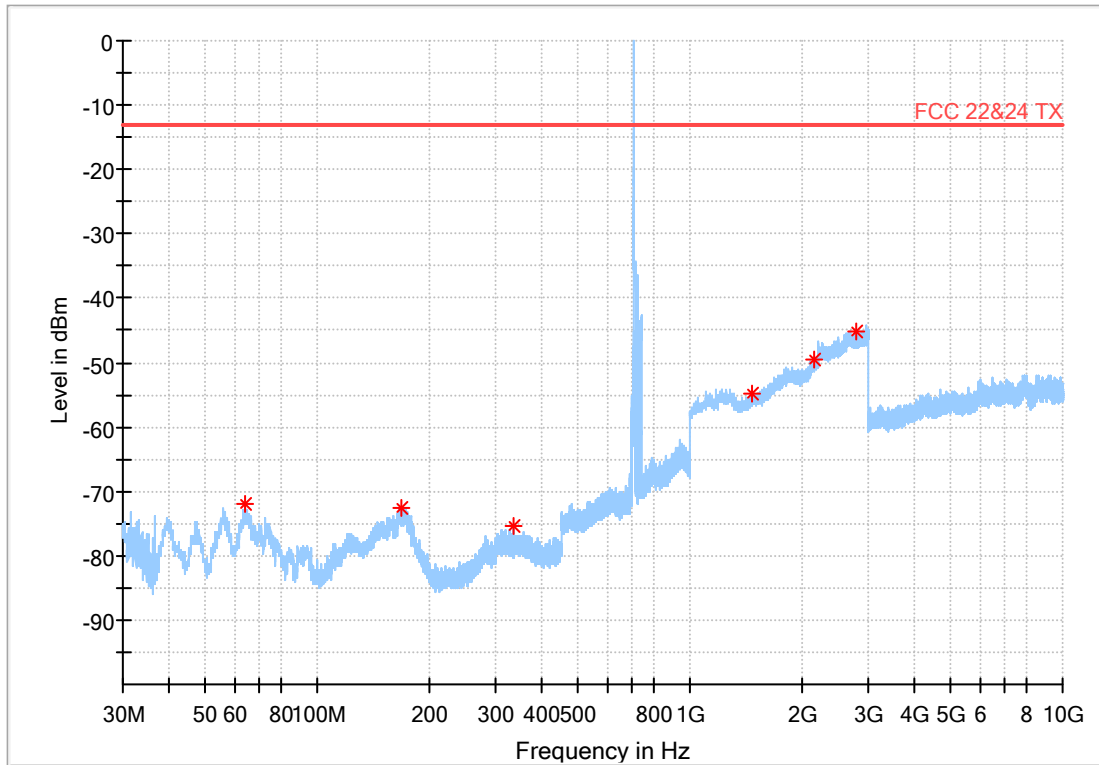
Full Spectrum





7.2.1.2. Test Channel = LCH-V

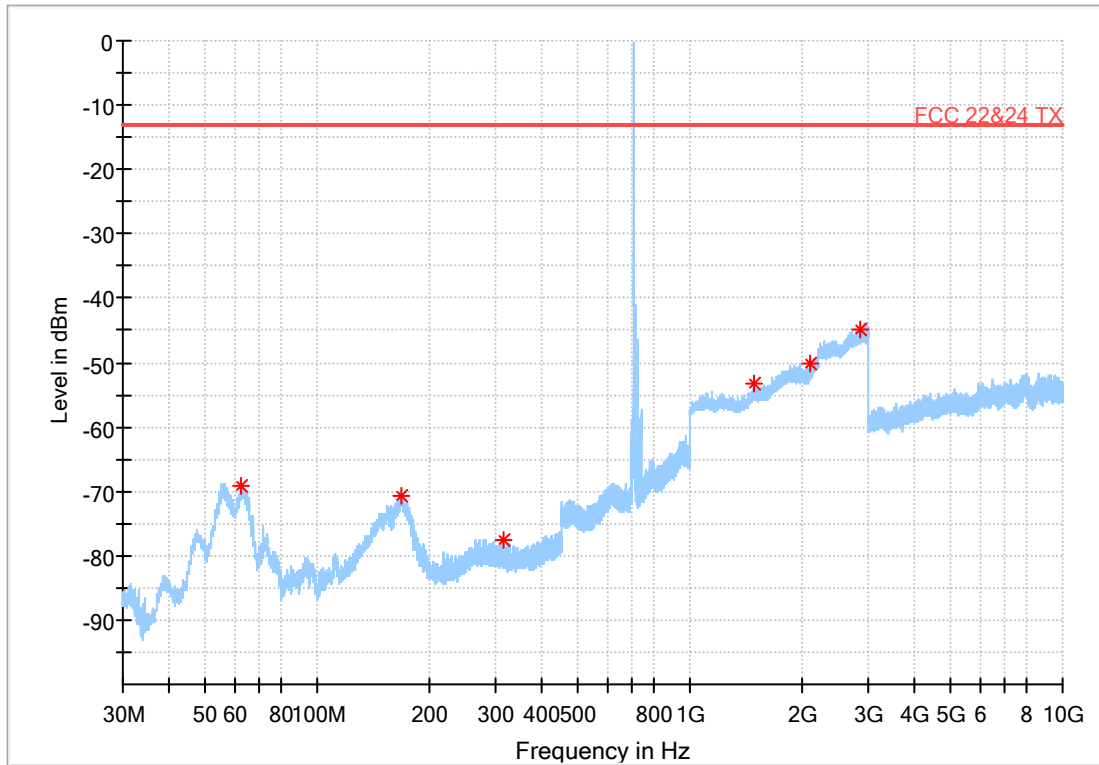
Full Spectrum





7.2.1.3. Test Channel = MCH-H

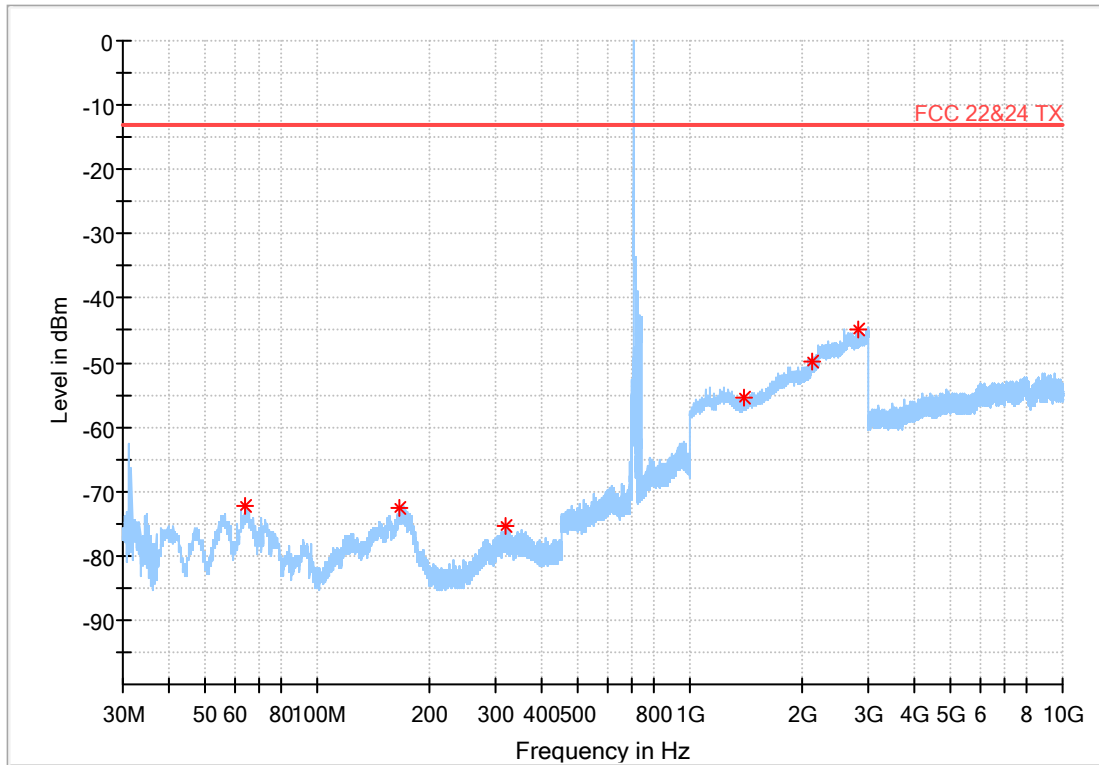
Full Spectrum





7.2.1.4. Test Channel = MCH-V

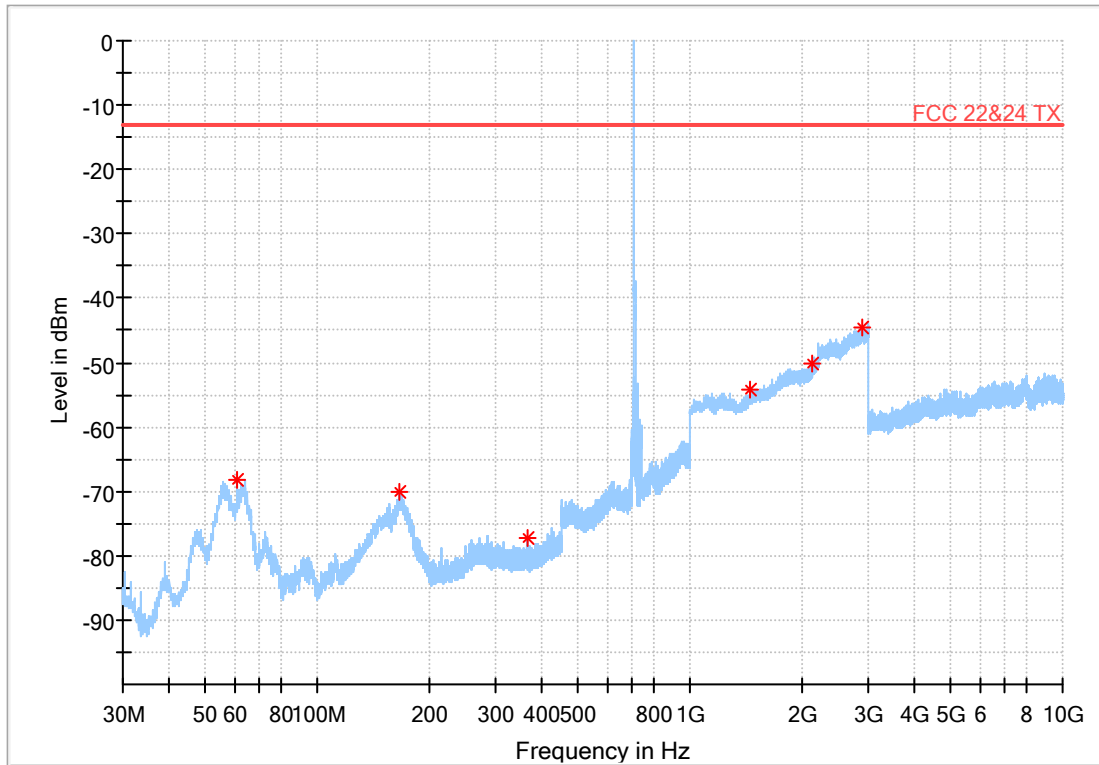
Full Spectrum





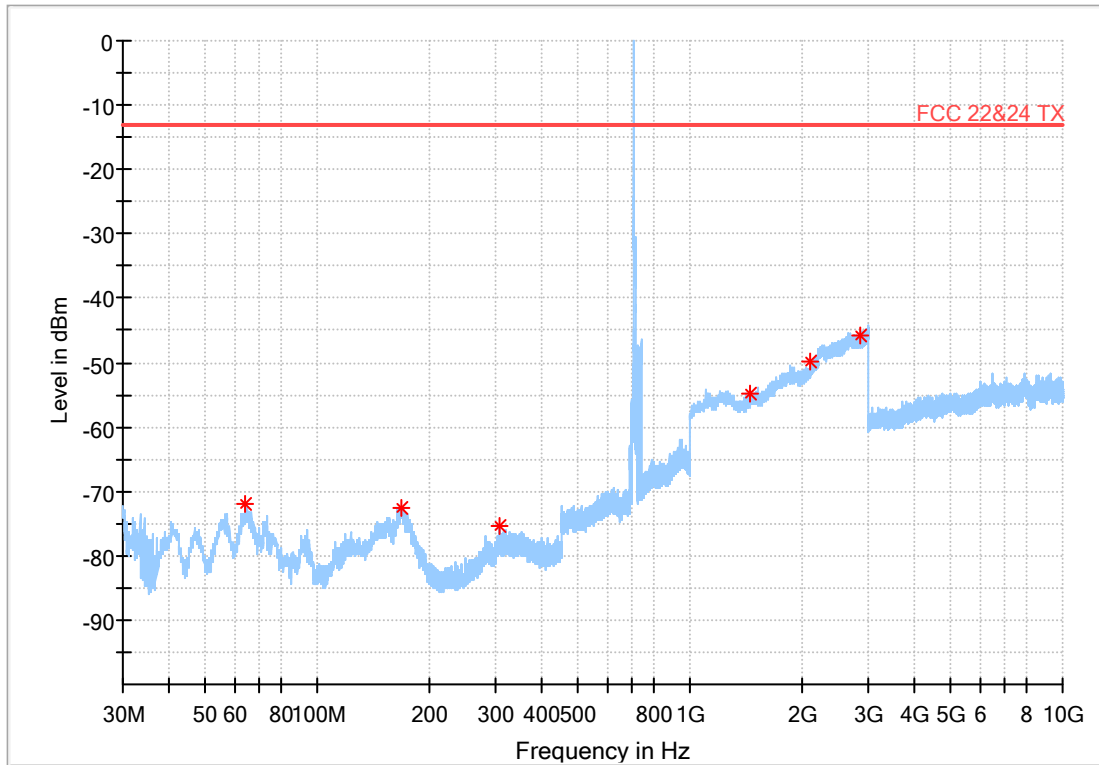
7.2.1.5. Test Channel = HCH-H

Full Spectrum



7.2.1.6. Test Channel = MCH-V

Full Spectrum



NOTE:

- 1) All modes are tested, but the data presented above is the worst case. the disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worse case had been displayed.
- 2) We have tested all modulation and all Bandwidth, but only the worst case data presented in this report.



8. Frequency Stability

8.1. Frequency Vs Voltage

Voltage										
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
BAND17	10MHz	QPSK	23780	50RB#0	VL	NT	-2.76	-0.003893	±2.5	PASS
BAND17	10MHz	QPSK	23780	50RB#0	VN	NT	3.88	0.005472	±2.5	PASS
BAND17	10MHz	QPSK	23780	50RB#0	VH	NT	2.66	0.003752	±2.5	PASS
BAND17	10MHz	QPSK	23790	50RB#0	VL	NT	-2.83	-0.003986	±2.5	PASS
BAND17	10MHz	QPSK	23790	50RB#0	VN	NT	-3.59	-0.005056	±2.5	PASS
BAND17	10MHz	QPSK	23790	50RB#0	VH	NT	-3.62	-0.005099	±2.5	PASS
BAND17	10MHz	QPSK	23800	50RB#0	VL	NT	-3.19	-0.004487	±2.5	PASS
BAND17	10MHz	QPSK	23800	50RB#0	VN	NT	4.99	0.007018	±2.5	PASS
BAND17	10MHz	QPSK	23800	50RB#0	VH	NT	-2.60	-0.003657	±2.5	PASS
BAND17	10MHz	64QAM	23780	50RB#0	VL	NT	0.30	0.000423	±2.5	PASS
BAND17	10MHz	64QAM	23780	50RB#0	VN	NT	0.00	0.000000	±2.5	PASS
BAND17	10MHz	64QAM	23780	50RB#0	VH	NT	0.20	0.000282	±2.5	PASS
BAND17	10MHz	64QAM	23790	50RB#0	VL	NT	0.50	0.000704	±2.5	PASS
BAND17	10MHz	64QAM	23790	50RB#0	VN	NT	-0.10	-0.000141	±2.5	PASS
BAND17	10MHz	64QAM	23790	50RB#0	VH	NT	-0.50	-0.000704	±2.5	PASS
BAND17	10MHz	64QAM	23800	50RB#0	VL	NT	-0.20	-0.000281	±2.5	PASS
BAND17	10MHz	64QAM	23800	50RB#0	VN	NT	-0.10	-0.000141	±2.5	PASS
BAND17	10MHz	64QAM	23800	50RB#0	VH	NT	-0.60	-0.000844	±2.5	PASS
BAND17	10MHz	16QAM	23780	50RB#0	VL	NT	2.23	0.003145	±2.5	PASS
BAND17	10MHz	16QAM	23780	50RB#0	VN	NT	3.58	0.005049	±2.5	PASS
BAND17	10MHz	16QAM	23780	50RB#0	VH	NT	2.69	0.003794	±2.5	PASS
BAND17	10MHz	16QAM	23790	50RB#0	VL	NT	3.10	0.004366	±2.5	PASS
BAND17	10MHz	16QAM	23790	50RB#0	VN	NT	-2.70	-0.003803	±2.5	PASS
BAND17	10MHz	16QAM	23790	50RB#0	VH	NT	3.26	0.004592	±2.5	PASS
BAND17	10MHz	16QAM	23800	50RB#0	VL	NT	-2.90	-0.004079	±2.5	PASS
BAND17	10MHz	16QAM	23800	50RB#0	VN	NT	2.55	0.003586	±2.5	PASS
BAND17	10MHz	16QAM	23800	50RB#0	VH	NT	3.00	0.004219	±2.5	PASS

8.2. Frequency Vs Temperature

Temperature										
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
BAND17	10MHz	QPSK	23780	50RB#0	NV	-30	2.99	0.004217	±2.5	PASS
BAND17	10MHz	QPSK	23780	50RB#0	NV	-20	-2.98	-0.004203	±2.5	PASS
BAND17	10MHz	QPSK	23780	50RB#0	NV	0	2.49	0.003512	±2.5	PASS
BAND17	10MHz	QPSK	23780	50RB#0	NV	10	3.69	0.005205	±2.5	PASS
BAND17	10MHz	QPSK	23780	50RB#0	NV	20	3.18	0.004485	±2.5	PASS
BAND17	10MHz	QPSK	23790	50RB#0	NV	-30	-3.20	-0.004507	±2.5	PASS
BAND17	10MHz	QPSK	23790	50RB#0	NV	-20	-3.50	-0.004930	±2.5	PASS
BAND17	10MHz	QPSK	23790	50RB#0	NV	0	4.61	0.006493	±2.5	PASS
BAND17	10MHz	QPSK	23790	50RB#0	NV	10	-3.71	-0.005225	±2.5	PASS

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BAND17	10MHz	QPSK	23790	50RB#0	NV	20	-3.48	-0.004901	±2.5	PASS
BAND17	10MHz	QPSK	23800	50RB#0	NV	-30	-2.88	-0.004051	±2.5	PASS
BAND17	10MHz	QPSK	23800	50RB#0	NV	-20	-2.25	-0.003165	±2.5	PASS
BAND17	10MHz	QPSK	23800	50RB#0	NV	0	2.47	0.003474	±2.5	PASS
BAND17	10MHz	QPSK	23800	50RB#0	NV	10	-2.73	-0.003840	±2.5	PASS
BAND17	10MHz	QPSK	23800	50RB#0	NV	20	-2.79	-0.003924	±2.5	PASS
BAND17	10MHz	64QAM	23780	50RB#0	NV	-30	0.10	0.000141	±2.5	PASS
BAND17	10MHz	64QAM	23780	50RB#0	NV	-20	0.30	0.000423	±2.5	PASS
BAND17	10MHz	64QAM	23780	50RB#0	NV	0	0.30	0.000423	±2.5	PASS
BAND17	10MHz	64QAM	23780	50RB#0	NV	10	0.20	0.000282	±2.5	PASS
BAND17	10MHz	64QAM	23780	50RB#0	NV	20	0.20	0.000282	±2.5	PASS
BAND17	10MHz	64QAM	23790	50RB#0	NV	-30	-0.20	-0.000282	±2.5	PASS
BAND17	10MHz	64QAM	23790	50RB#0	NV	-20	-0.10	-0.000141	±2.5	PASS
BAND17	10MHz	64QAM	23790	50RB#0	NV	0	-0.20	-0.000282	±2.5	PASS
BAND17	10MHz	64QAM	23790	50RB#0	NV	10	0.20	0.000282	±2.5	PASS
BAND17	10MHz	64QAM	23790	50RB#0	NV	20	0.30	0.000423	±2.5	PASS
BAND17	10MHz	64QAM	23800	50RB#0	NV	-30	-0.50	-0.000703	±2.5	PASS
BAND17	10MHz	64QAM	23800	50RB#0	NV	-20	0.00	0.000000	±2.5	PASS
BAND17	10MHz	64QAM	23800	50RB#0	NV	0	0.40	0.000563	±2.5	PASS
BAND17	10MHz	64QAM	23800	50RB#0	NV	10	-0.10	-0.000141	±2.5	PASS
BAND17	10MHz	64QAM	23800	50RB#0	NV	20	-0.30	-0.000422	±2.5	PASS
BAND17	10MHz	16QAM	23780	50RB#0	NV	-30	-2.80	-0.003949	±2.5	PASS
BAND17	10MHz	16QAM	23780	50RB#0	NV	-20	3.33	0.004697	±2.5	PASS
BAND17	10MHz	16QAM	23780	50RB#0	NV	0	3.45	0.004866	±2.5	PASS
BAND17	10MHz	16QAM	23780	50RB#0	NV	10	2.80	0.003949	±2.5	PASS
BAND17	10MHz	16QAM	23780	50RB#0	NV	20	2.59	0.003653	±2.5	PASS
BAND17	10MHz	16QAM	23790	50RB#0	NV	-30	-2.49	-0.003507	±2.5	PASS
BAND17	10MHz	16QAM	23790	50RB#0	NV	-20	-4.15	-0.005845	±2.5	PASS
BAND17	10MHz	16QAM	23790	50RB#0	NV	0	3.25	0.004577	±2.5	PASS
BAND17	10MHz	16QAM	23790	50RB#0	NV	10	3.62	0.005099	±2.5	PASS
BAND17	10MHz	16QAM	23790	50RB#0	NV	20	1.95	0.002746	±2.5	PASS
BAND17	10MHz	16QAM	23800	50RB#0	NV	-30	-2.93	-0.004121	±2.5	PASS
BAND17	10MHz	16QAM	23800	50RB#0	NV	-20	-3.30	-0.004641	±2.5	PASS
BAND17	10MHz	16QAM	23800	50RB#0	NV	0	-3.05	-0.004290	±2.5	PASS
BAND17	10MHz	16QAM	23800	50RB#0	NV	10	-2.80	-0.003938	±2.5	PASS
BAND17	10MHz	16QAM	23800	50RB#0	NV	20	-2.89	-0.004065	±2.5	PASS

The End