



# 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	22.60	18.45	36.98	PASS
Band17	5MHz	QPSK	23755	1RB#12	22.66	18.51	36.98	PASS
Band17	5MHz	QPSK	23755	1RB#24	22.54	18.39	36.98	PASS
Band17	5MHz	QPSK	23755	12RB#0	21.64	17.49	36.98	PASS
Band17	5MHz	QPSK	23755	12RB#6	21.62	17.47	36.98	PASS
Band17	5MHz	QPSK	23755	12RB#13	21.62	17.47	36.98	PASS
Band17	5MHz	QPSK	23755	25RB#0	21.61	17.46	36.98	PASS
Band17	5MHz	QPSK	23790	1RB#0	22.57	18.42	36.98	PASS
Band17	5MHz	QPSK	23790	1RB#12	22.64	18.49	36.98	PASS
Band17	5MHz	QPSK	23790	1RB#24	22.56	18.41	36.98	PASS
Band17	5MHz	QPSK	23790	12RB#0	21.59	17.44	36.98	PASS
Band17	5MHz	QPSK	23790	12RB#6	21.66	17.51	36.98	PASS
Band17	5MHz	QPSK	23790	12RB#13	21.66	17.51	36.98	PASS
Band17	5MHz	QPSK	23790	25RB#0	21.63	17.48	36.98	PASS
Band17	5MHz	QPSK	23825	1RB#0	22.63	18.48	36.98	PASS
Band17	5MHz	QPSK	23825	1RB#12	22.66	18.51	36.98	PASS
Band17	5MHz	QPSK	23825	1RB#24	22.56	18.41	36.98	PASS
Band17	5MHz	QPSK	23825	12RB#0	21.64	17.49	36.98	PASS
Band17	5MHz	QPSK	23825	12RB#6	21.68	17.53	36.98	PASS
Band17	5MHz	QPSK	23825	12RB#13	21.66	17.51	36.98	PASS
Band17	5MHz	QPSK	23825	25RB#0	21.64	17.49	36.98	PASS
Band17	5MHz	64QAM	23755	1RB#0	20.63	16.48	36.98	PASS
Band17	5MHz	64QAM	23755	1RB#12	20.70	16.55	36.98	PASS
Band17	5MHz	64QAM	23755	1RB#24	20.56	16.41	36.98	PASS
Band17	5MHz	64QAM	23755	12RB#0	19.55	15.40	36.98	PASS
Band17	5MHz	64QAM	23755	12RB#6	19.58	15.43	36.98	PASS
Band17	5MHz	64QAM	23755	12RB#13	19.53	15.38	36.98	PASS
Band17	5MHz	64QAM	23755	25RB#0	19.58	15.43	36.98	PASS
Band17	5MHz	64QAM	23790	1RB#0	20.56	16.41	36.98	PASS
Band17	5MHz	64QAM	23790	1RB#12	20.66	16.51	36.98	PASS
Band17	5MHz	64QAM	23790	1RB#24	20.62	16.47	36.98	PASS
Band17	5MHz	64QAM	23790	12RB#0	19.57	15.42	36.98	PASS
Band17	5MHz	64QAM	23790	12RB#6	19.64	15.49	36.98	PASS
Band17	5MHz	64QAM	23790	12RB#13	19.58	15.43	36.98	PASS
Band17	5MHz	64QAM	23790	25RB#0	19.63	15.48	36.98	PASS
Band17	5MHz	64QAM	23825	1RB#0	20.69	16.54	36.98	PASS



Band17	5MHz	64QAM	23825	1RB#12	20.72	16.57	36.98	PASS
Band17	5MHz	64QAM	23825	1RB#24	20.63	16.48	36.98	PASS
Band17	5MHz	64QAM	23825	12RB#0	19.61	15.46	36.98	PASS
Band17	5MHz	64QAM	23825	12RB#6	19.62	15.47	36.98	PASS
Band17	5MHz	64QAM	23825	12RB#13	19.59	15.44	36.98	PASS
Band17	5MHz	64QAM	23825	25RB#0	19.63	15.48	36.98	PASS
Band17	5MHz	16QAM	23755	1RB#0	21.71	17.56	36.98	PASS
Band17	5MHz	16QAM	23755	1RB#12	21.84	17.69	36.98	PASS
Band17	5MHz	16QAM	23755	1RB#24	21.69	17.54	36.98	PASS
Band17	5MHz	16QAM	23755	12RB#0	20.56	16.41	36.98	PASS
Band17	5MHz	16QAM	23755	12RB#6	20.58	16.43	36.98	PASS
Band17	5MHz	16QAM	23755	12RB#13	20.57	16.42	36.98	PASS
Band17	5MHz	16QAM	23755	25RB#0	20.50	16.35	36.98	PASS
Band17	5MHz	16QAM	23790	1RB#0	21.65	17.50	36.98	PASS
Band17	5MHz	16QAM	23790	1RB#12	21.77	17.62	36.98	PASS
Band17	5MHz	16QAM	23790	1RB#24	21.72	17.57	36.98	PASS
Band17	5MHz	16QAM	23790	12RB#0	20.61	16.46	36.98	PASS
Band17	5MHz	16QAM	23790	12RB#6	20.64	16.49	36.98	PASS
Band17	5MHz	16QAM	23790	12RB#13	20.63	16.48	36.98	PASS
Band17	5MHz	16QAM	23790	25RB#0	20.58	16.43	36.98	PASS
Band17	5MHz	16QAM	23825	1RB#0	21.75	17.60	36.98	PASS
Band17	5MHz	16QAM	23825	1RB#12	21.85	17.70	36.98	PASS
Band17	5MHz	16QAM	23825	1RB#24	21.75	17.60	36.98	PASS
Band17	5MHz	16QAM	23825	12RB#0	20.58	16.43	36.98	PASS
Band17	5MHz	16QAM	23825	12RB#6	20.61	16.46	36.98	PASS
Band17	5MHz	16QAM	23825	12RB#13	20.59	16.44	36.98	PASS
Band17	5MHz	16QAM	23825	25RB#0	20.55	16.40	36.98	PASS
Band17	10MHz	QPSK	23780	1RB#0	22.52	18.37	36.98	PASS
Band17	10MHz	QPSK	23780	1RB#24	22.57	18.42	36.98	PASS
Band17	10MHz	QPSK	23780	1RB#49	22.48	18.33	36.98	PASS
Band17	10MHz	QPSK	23780	25RB#0	21.55	17.40	36.98	PASS
Band17	10MHz	QPSK	23780	25RB#12	21.62	17.47	36.98	PASS
Band17	10MHz	QPSK	23780	25RB#25	21.58	17.43	36.98	PASS
Band17	10MHz	QPSK	23780	50RB#0	21.59	17.44	36.98	PASS
Band17	10MHz	QPSK	23790	1RB#0	22.50	18.35	36.98	PASS
Band17	10MHz	QPSK	23790	1RB#24	22.62	18.47	36.98	PASS
Band17	10MHz	QPSK	23790	1RB#49	22.48	18.33	36.98	PASS
Band17	10MHz	QPSK	23790	25RB#0	21.61	17.46	36.98	PASS
Band17	10MHz	QPSK	23790	25RB#12	21.59	17.44	36.98	PASS
Band17	10MHz	QPSK	23790	25RB#25	21.57	17.42	36.98	PASS
Band17	10MHz	QPSK	23790	50RB#0	21.55	17.40	36.98	PASS
Band17	10MHz	QPSK	23800	1RB#0	22.51	18.36	36.98	PASS



Band17	10MHz	QPSK	23800	1RB#24	22.60	18.45	36.98	PASS
Band17	10MHz	QPSK	23800	1RB#49	22.50	18.35	36.98	PASS
Band17	10MHz	QPSK	23800	25RB#0	21.54	17.39	36.98	PASS
Band17	10MHz	QPSK	23800	25RB#12	21.63	17.48	36.98	PASS
Band17	10MHz	QPSK	23800	25RB#25	21.55	17.40	36.98	PASS
Band17	10MHz	QPSK	23800	50RB#0	21.57	17.42	36.98	PASS
Band17	10MHz	64QAM	23780	1RB#0	20.66	16.51	36.98	PASS
Band17	10MHz	64QAM	23780	1RB#24	20.78	16.63	36.98	PASS
Band17	10MHz	64QAM	23780	1RB#49	20.63	16.48	36.98	PASS
Band17	10MHz	64QAM	23780	25RB#0	19.58	15.43	36.98	PASS
Band17	10MHz	64QAM	23780	25RB#12	19.55	15.40	36.98	PASS
Band17	10MHz	64QAM	23780	25RB#25	19.53	15.38	36.98	PASS
Band17	10MHz	64QAM	23780	50RB#0	19.53	15.38	36.98	PASS
Band17	10MHz	64QAM	23790	1RB#0	20.57	16.42	36.98	PASS
Band17	10MHz	64QAM	23790	1RB#24	20.79	16.64	36.98	PASS
Band17	10MHz	64QAM	23790	1RB#49	20.57	16.42	36.98	PASS
Band17	10MHz	64QAM	23790	25RB#0	19.56	15.41	36.98	PASS
Band17	10MHz	64QAM	23790	25RB#12	19.61	15.46	36.98	PASS
Band17	10MHz	64QAM	23790	25RB#25	19.55	15.40	36.98	PASS
Band17	10MHz	64QAM	23790	50RB#0	19.52	15.37	36.98	PASS
Band17	10MHz	64QAM	23800	1RB#0	20.64	16.49	36.98	PASS
Band17	10MHz	64QAM	23800	1RB#24	20.71	16.56	36.98	PASS
Band17	10MHz	64QAM	23800	1RB#49	20.60	16.45	36.98	PASS
Band17	10MHz	64QAM	23800	25RB#0	19.52	15.37	36.98	PASS
Band17	10MHz	64QAM	23800	25RB#12	19.60	15.45	36.98	PASS
Band17	10MHz	64QAM	23800	25RB#25	19.55	15.40	36.98	PASS
Band17	10MHz	64QAM	23800	50RB#0	19.55	15.40	36.98	PASS
Band17	10MHz	16QAM	23780	1RB#0	21.75	17.60	36.98	PASS
Band17	10MHz	16QAM	23780	1RB#24	21.70	17.55	36.98	PASS
Band17	10MHz	16QAM	23780	1RB#49	21.63	17.48	36.98	PASS
Band17	10MHz	16QAM	23780	25RB#0	20.55	16.40	36.98	PASS
Band17	10MHz	16QAM	23780	25RB#12	20.58	16.43	36.98	PASS
Band17	10MHz	16QAM	23780	25RB#25	20.55	16.40	36.98	PASS
Band17	10MHz	16QAM	23780	50RB#0	20.55	16.40	36.98	PASS
Band17	10MHz	16QAM	23790	1RB#0	21.65	17.50	36.98	PASS
Band17	10MHz	16QAM	23790	1RB#24	21.73	17.58	36.98	PASS
Band17	10MHz	16QAM	23790	1RB#49	21.55	17.40	36.98	PASS
Band17	10MHz	16QAM	23790	25RB#0	20.51	16.36	36.98	PASS
Band17	10MHz	16QAM	23790	25RB#12	20.52	16.37	36.98	PASS
Band17	10MHz	16QAM	23790	25RB#25	20.54	16.39	36.98	PASS
Band17	10MHz	16QAM	23790	50RB#0	20.51	16.36	36.98	PASS
Band17	10MHz	16QAM	23800	1RB#0	21.62	17.47	36.98	PASS

Band17	10MHz	16QAM	23800	1RB#24	21.68	17.53	36.98	PASS
Band17	10MHz	16QAM	23800	1RB#49	21.57	17.42	36.98	PASS
Band17	10MHz	16QAM	23800	25RB#0	20.47	16.32	36.98	PASS
Band17	10MHz	16QAM	23800	25RB#12	20.58	16.43	36.98	PASS
Band17	10MHz	16QAM	23800	25RB#25	20.53	16.38	36.98	PASS
Band17	10MHz	16QAM	23800	50RB#0	20.54	16.39	36.98	PASS

Remark:

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

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

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

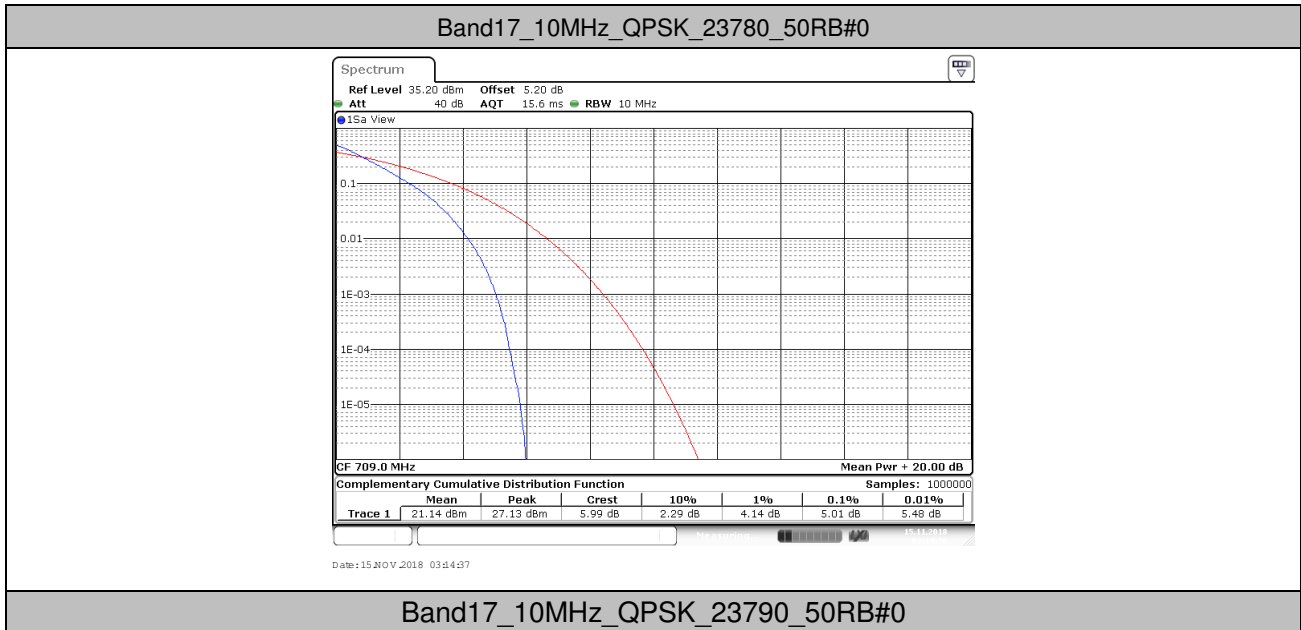
b: SGP=Signal Generator Level

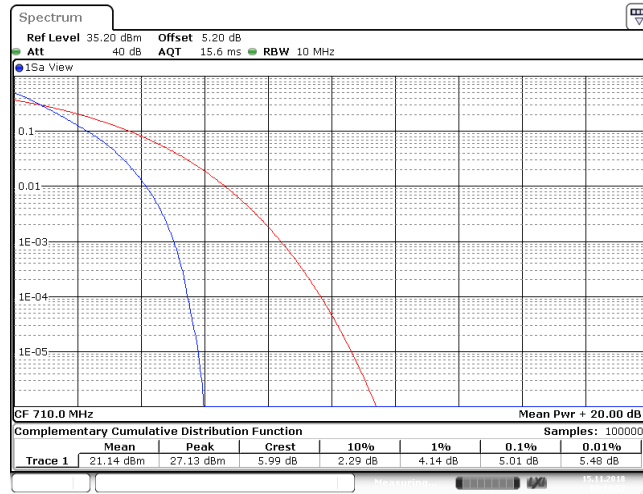
## 2. Peak-to-Average Ratio(CCDF)

### 2.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band17	10MHz	QPSK	23780	50RB#0	5.01	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.01	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.01	13	PASS
Band17	10MHz	64QAM	23780	50RB#0	5.54	13	PASS
Band17	10MHz	64QAM	23790	50RB#0	5.54	13	PASS
Band17	10MHz	64QAM	23800	50RB#0	5.54	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	5.01	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	5.01	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	5.01	13	PASS

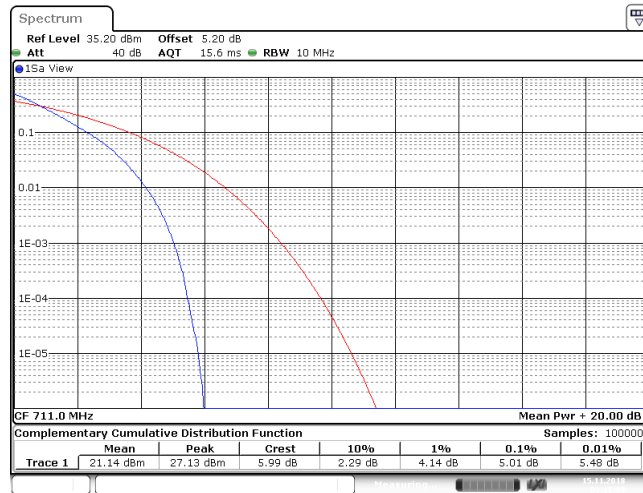
### 2.2. Test Plots





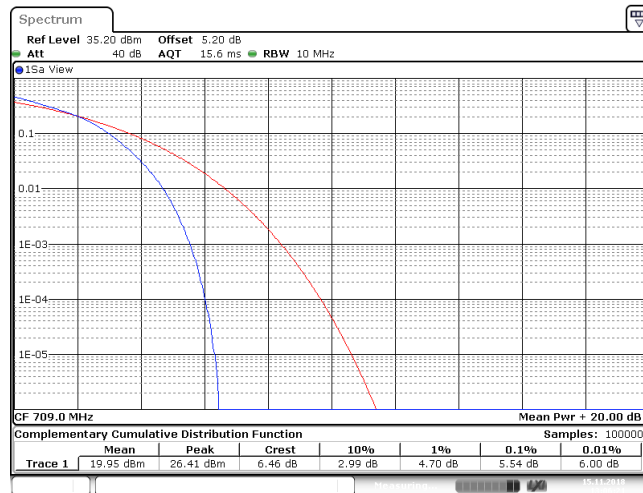
Date: 15 NOV 2018 03:44:53

**Band17\_10MHz\_QPSK\_23800\_50RB#0**



Date: 15 NOV 2018 03:45:29

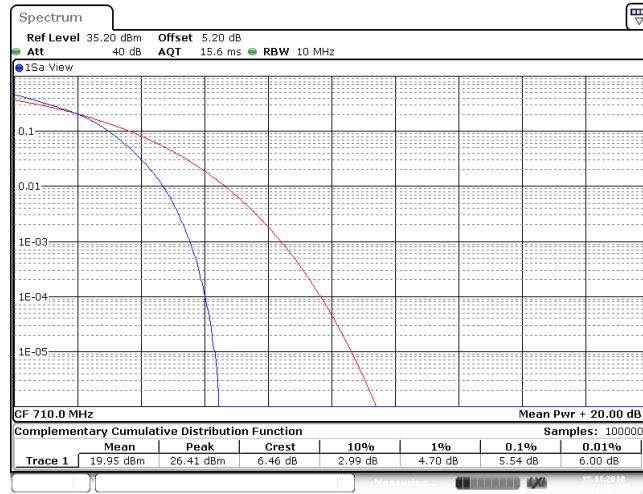
**Band17\_10MHz\_64QAM\_23780\_50RB#0**



Date: 15 NOV 2018 13:06:22

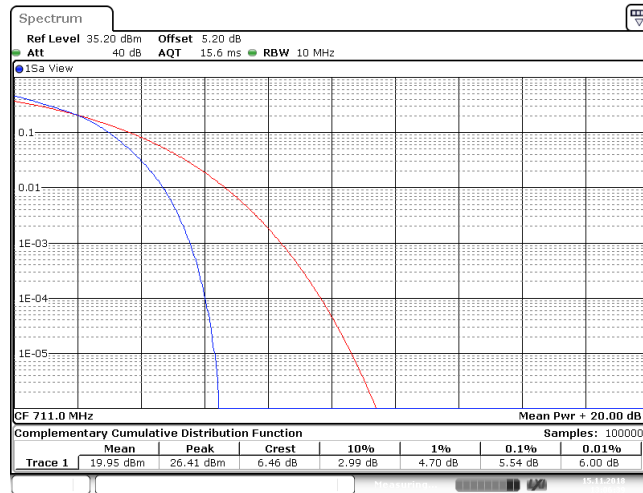
**Band17\_10MHz\_64QAM\_23790\_50RB#0**





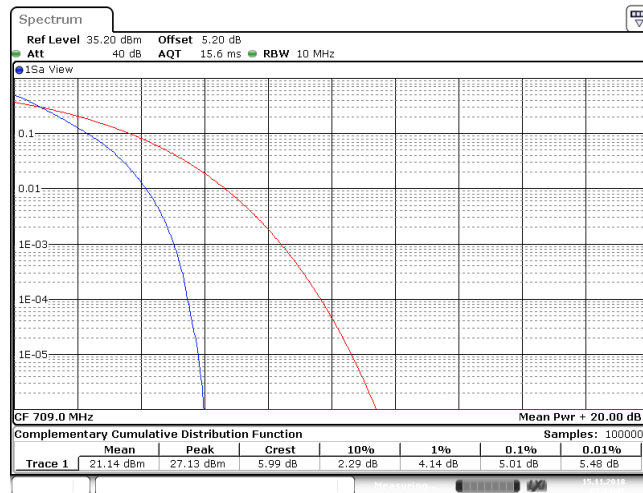
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**Band17\_10MHz\_64QAM\_23800\_50RB#0**



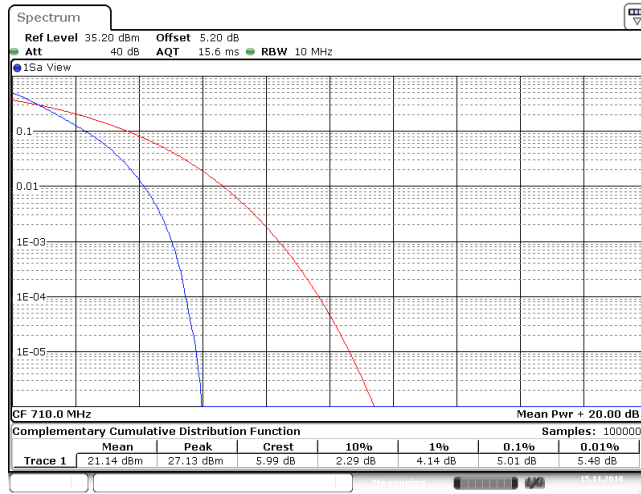
Date: 15 NOV 2018 13:06:29

**Band17\_10MHz\_16QAM\_23780\_50RB#0**



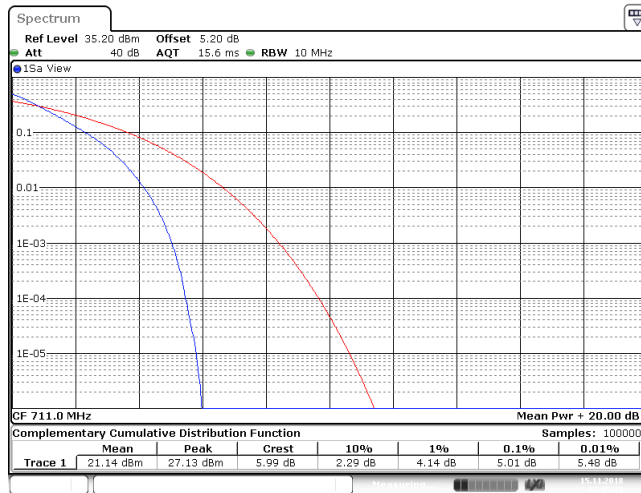
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**Band17\_10MHz\_16QAM\_23790\_50RB#0**



Date: 15 NOV 2018 03:44:59

**Band17\_10MHz\_16QAM\_23800\_50RB#0**



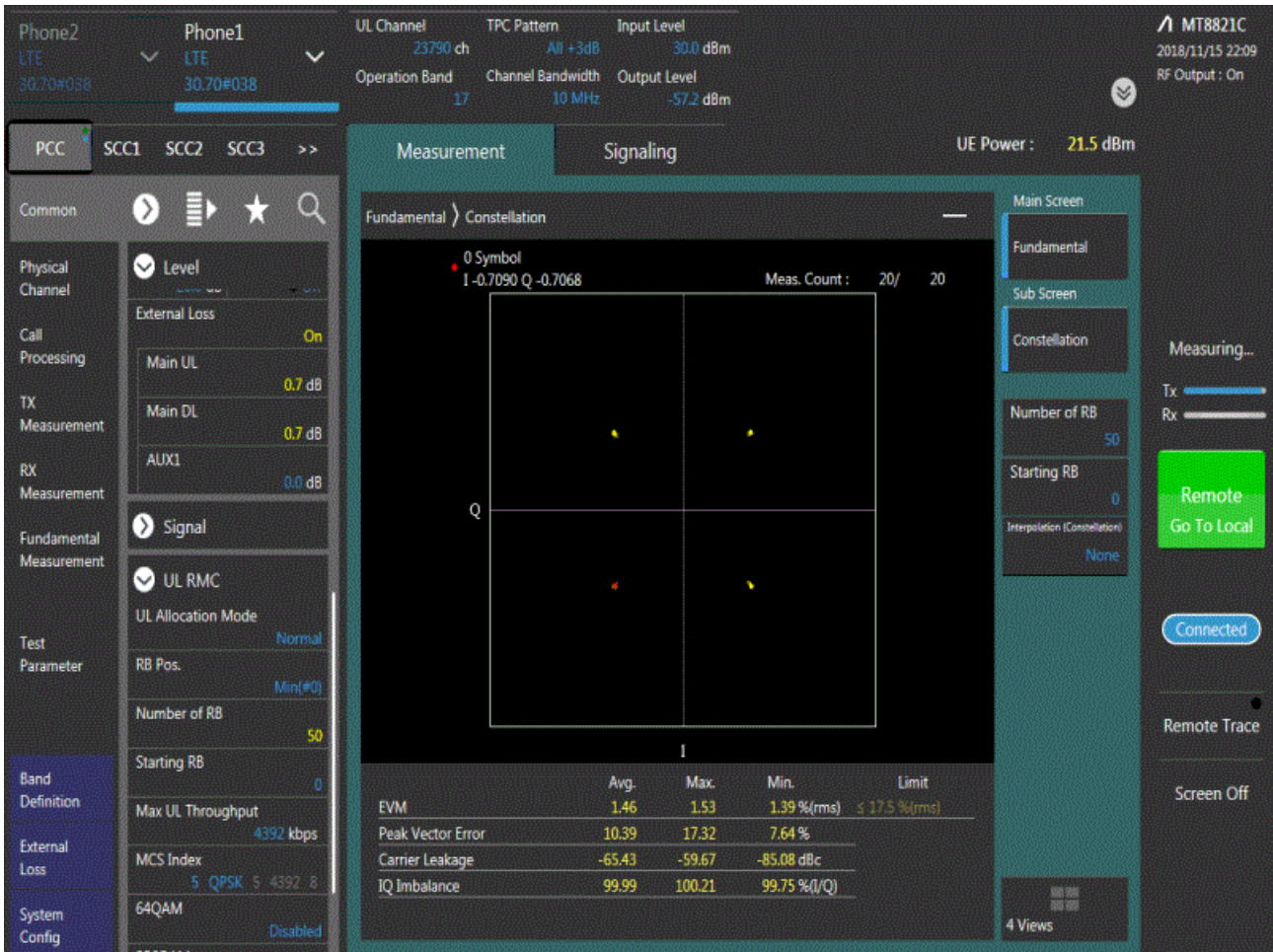
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### 3. Modulation Characteristics

#### 3.1. Test BAND = LTE BAND17

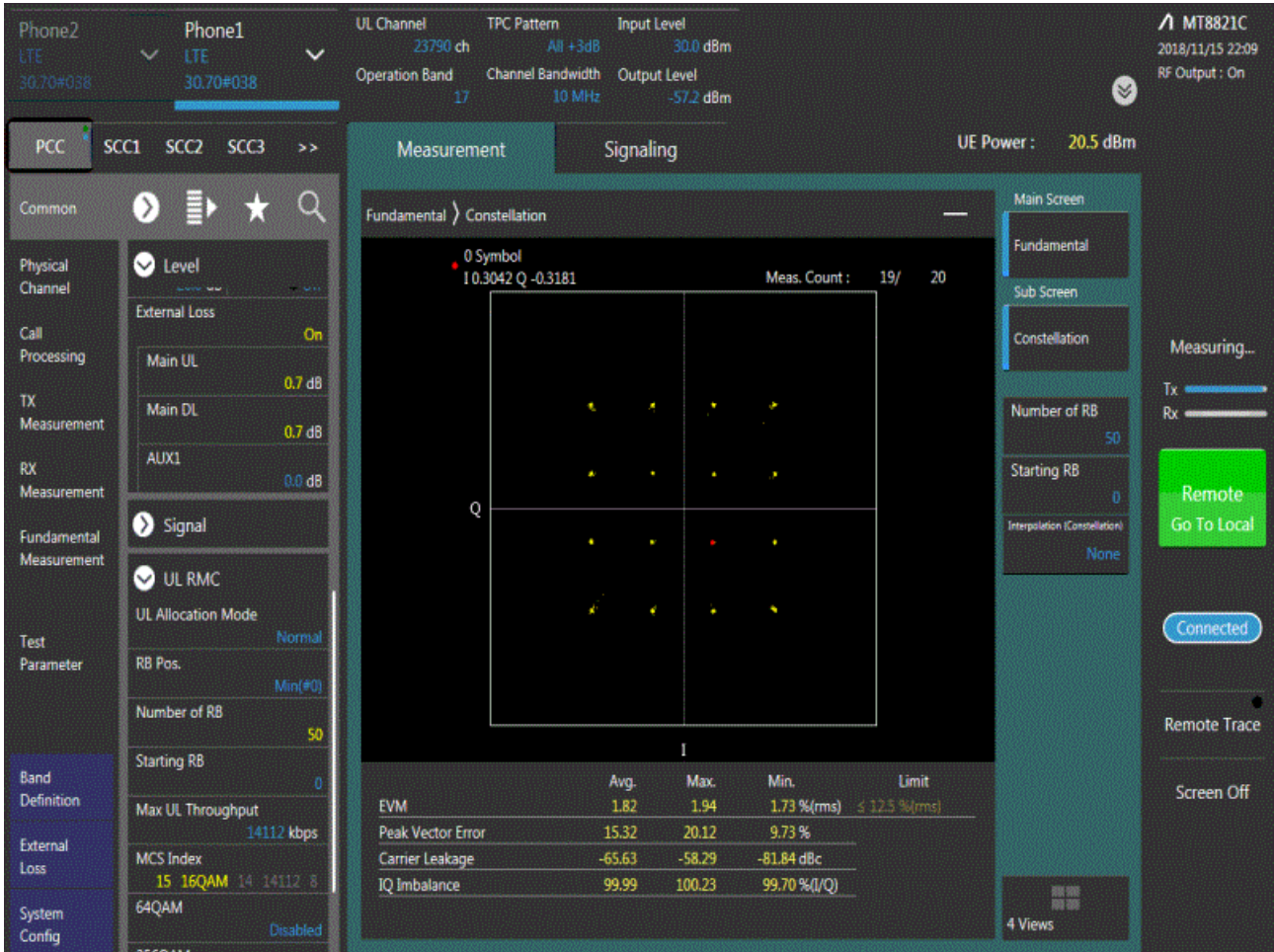
#### 3.1.1. Test Mode = LTE /TM1 10MHz

#### 3.1.1.1. Test Channel = MCH



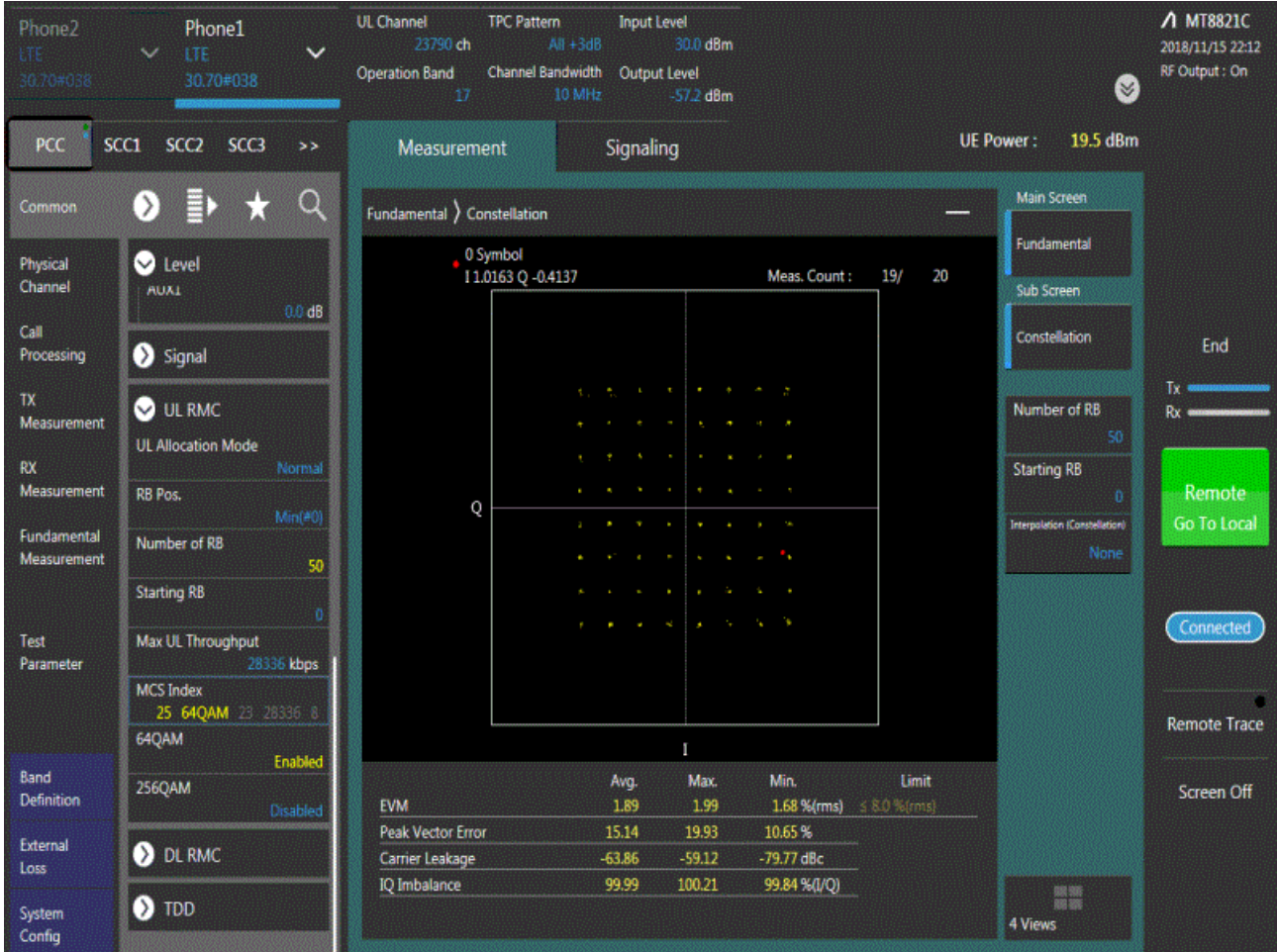
### 3.1.2. Test Mode = LTE /TM2 10MHz

#### 3.1.2.1. Test Channel = MCH



### 3.1.1. Test Mode = LTE /TM3 10MHz

#### 3.1.1.1. Test Channel = MCH

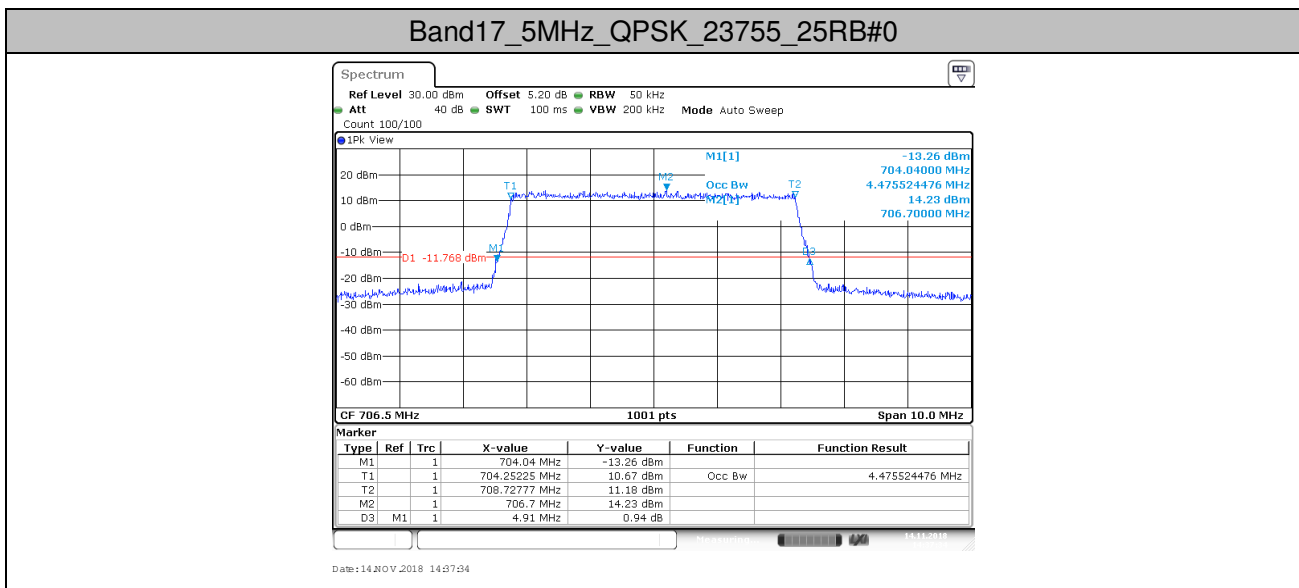


## 4. 26dB Bandwidth and Occupied Bandwidth

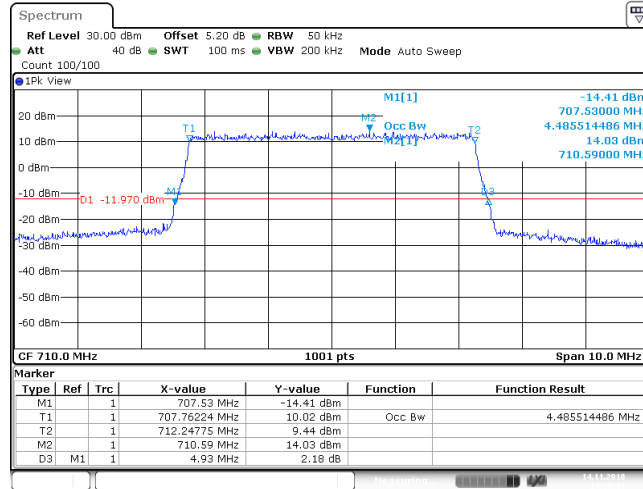
### 4.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.476	4.910	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.486	4.930	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.476	4.870	PASS
Band17	5MHz	64QAM	23755	25RB#0	4.476	4.920	PASS
Band17	5MHz	64QAM	23790	25RB#0	4.476	4.890	PASS
Band17	5MHz	64QAM	23825	25RB#0	4.476	4.900	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.486	4.930	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.476	4.900	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.476	4.890	PASS
Band17	10MHz	QPSK	23780	50RB#0	8.951	9.760	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.931	9.820	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.931	9.740	PASS
Band17	10MHz	64QAM	23780	50RB#0	8.951	9.800	PASS
Band17	10MHz	64QAM	23790	50RB#0	8.951	9.840	PASS
Band17	10MHz	64QAM	23800	50RB#0	8.931	9.740	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.971	9.840	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.951	9.800	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.931	9.780	PASS

### 4.2. Test Plots

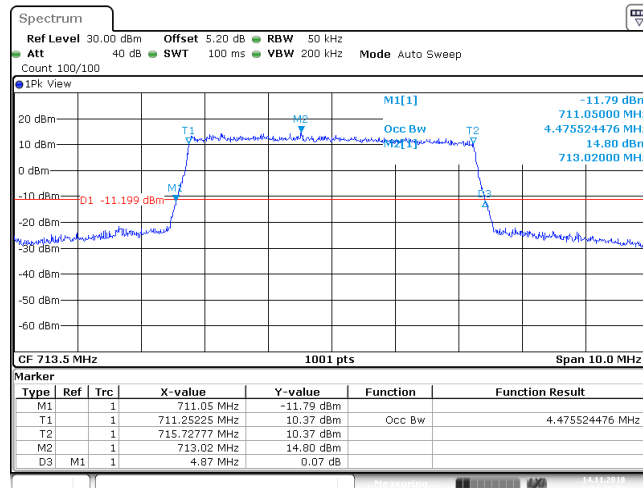


**Band17\_5MHz\_QPSK\_23790\_25RB#0**



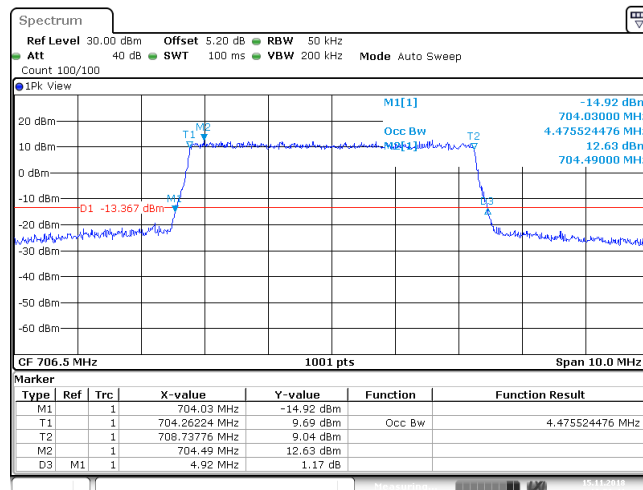
Date: 14 NOV 2018 14:58:14

**Band17\_5MHz\_QPSK\_23825\_25RB#0**



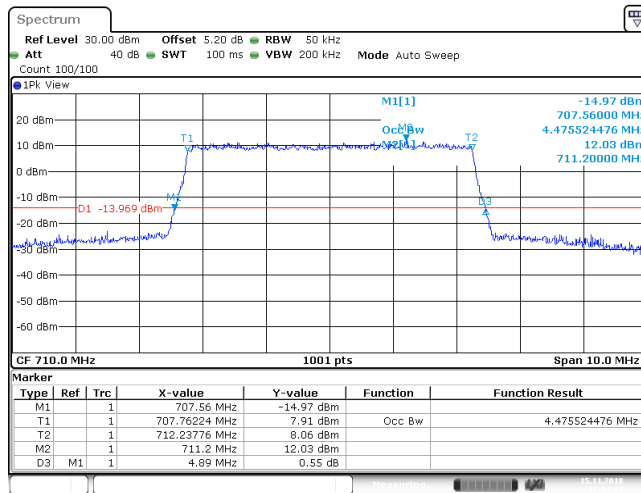
Date: 14 NOV 2018 14:59:04

**Band17\_5MHz\_64QAM\_23755\_25RB#0**



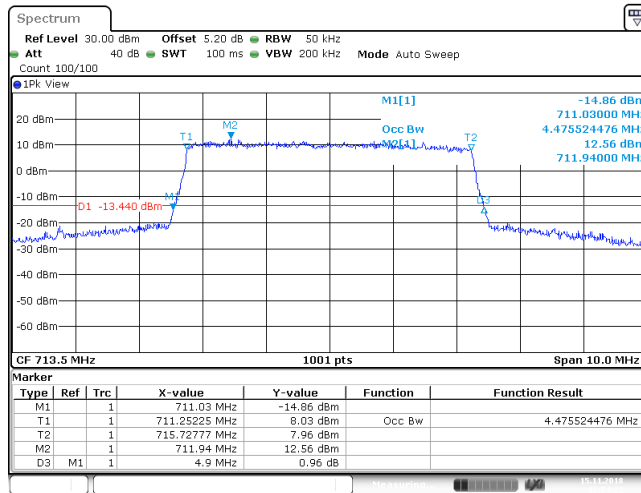
Date: 15 NOV 2018 12:53:42

**Band17\_5MHz\_64QAM\_23790\_25RB#0**



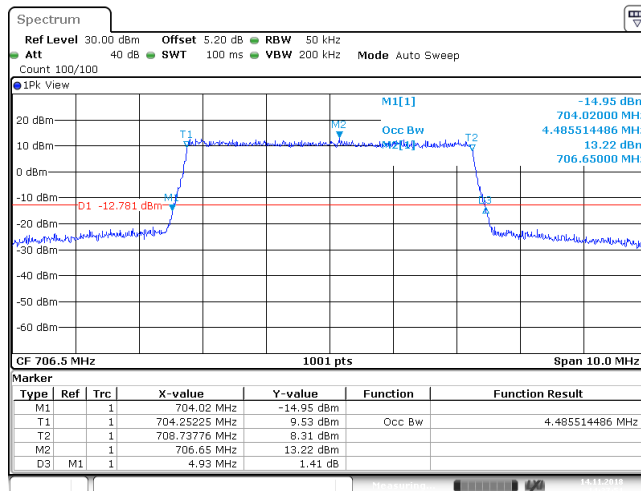
Date: 15 NOV 2018 12:54:02

**Band17\_5MHz\_64QAM\_23825\_25RB#0**



Date: 15 NOV 2018 12:54:22

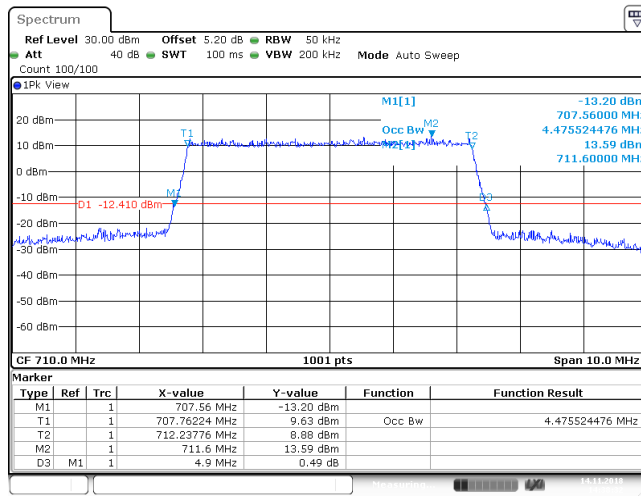
**Band17\_5MHz\_16QAM\_23755\_25RB#0**



Date: 14 NOV 2018 14:27:52

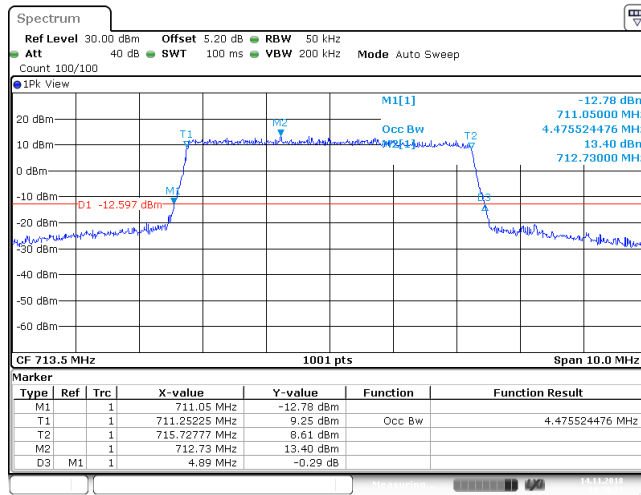
**Band17\_5MHz\_16QAM\_23790\_25RB#0**





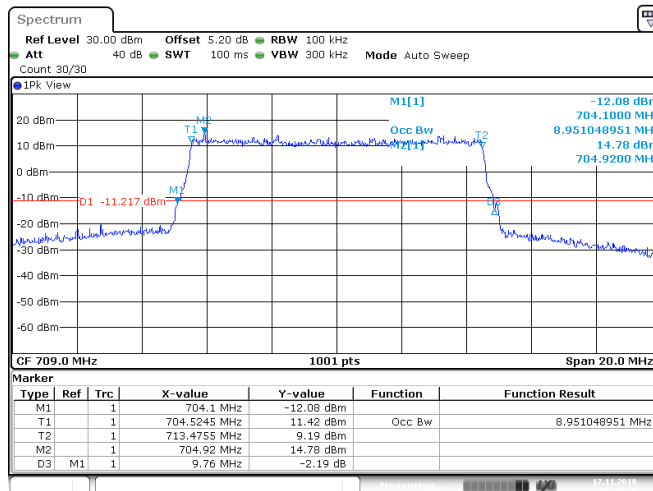
Date: 14 NOV 2018 14:38:32

**Band17\_5MHz\_16QAM\_23825\_25RB#0**



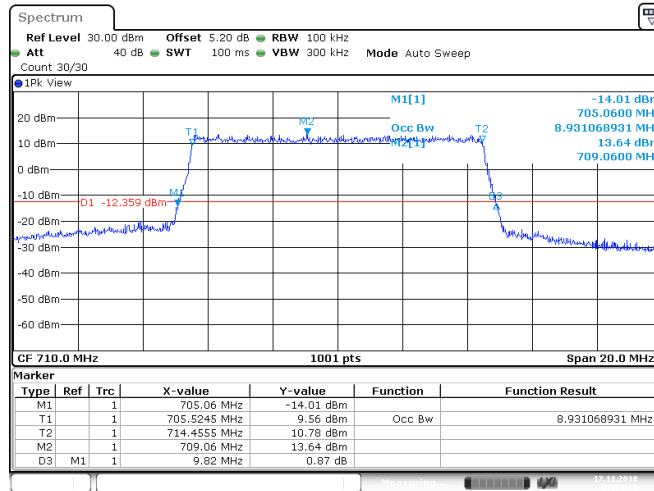
Date: 14 NOV 2018 14:39:21

**Band17\_10MHz\_QPSK\_23780\_50RB#0**



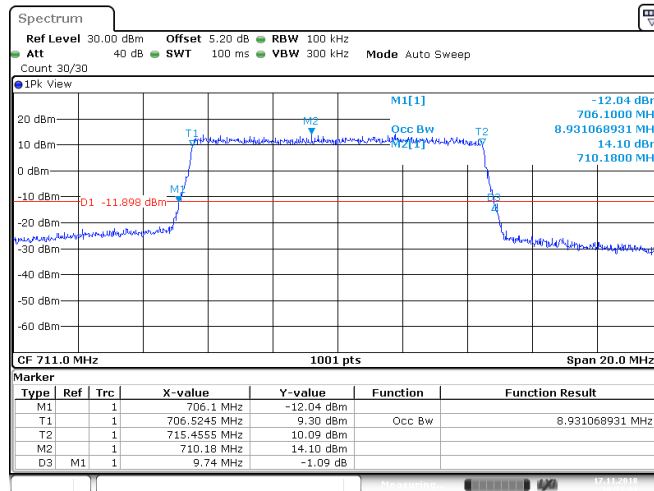
Date: 17 NOV 2018 10:47:47

**Band17\_10MHz\_QPSK\_23790\_50RB#0**



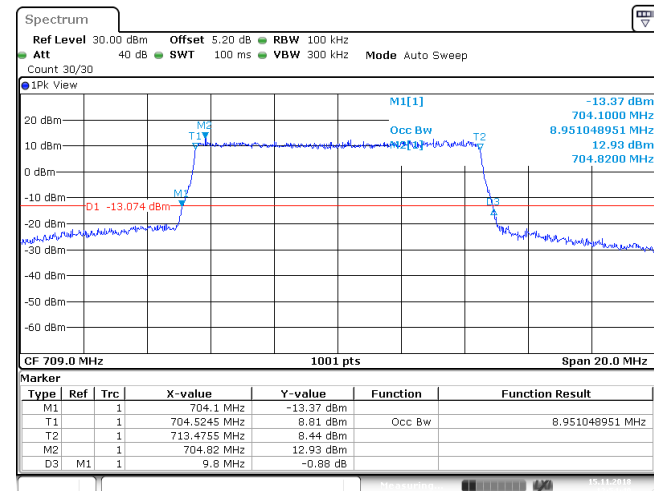
Date: 17 NOV 2018 10:51:36

**Band17\_10MHz\_QPSK\_23800\_50RB#0**



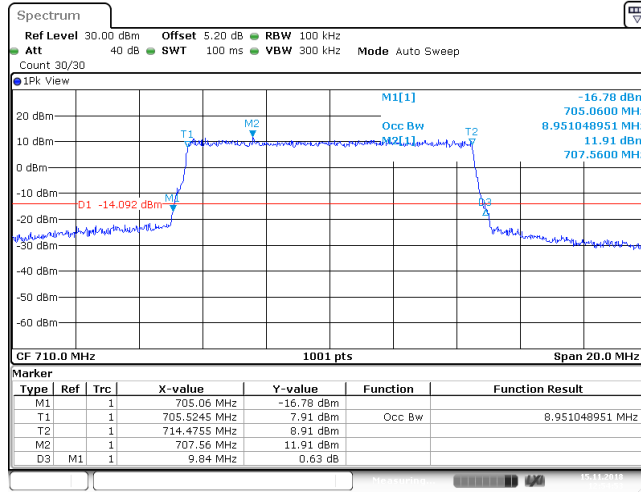
Date: 17 NOV 2018 10:52:01

**Band17\_10MHz\_64QAM\_23780\_50RB#0**



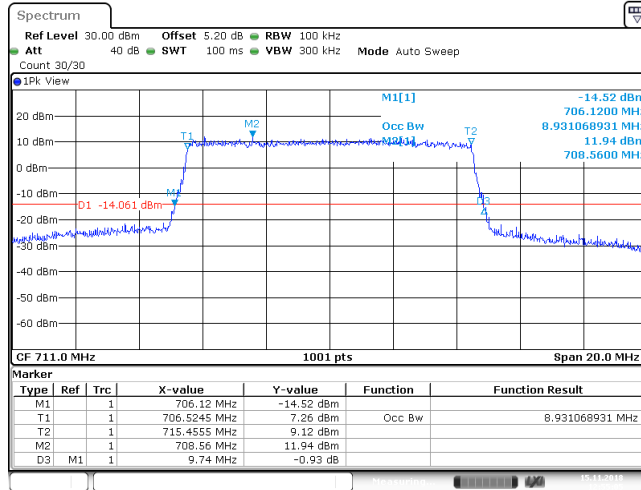
Date: 15 NOV 2018 12:54:40

**Band17\_10MHz\_64QAM\_23790\_50RB#0**



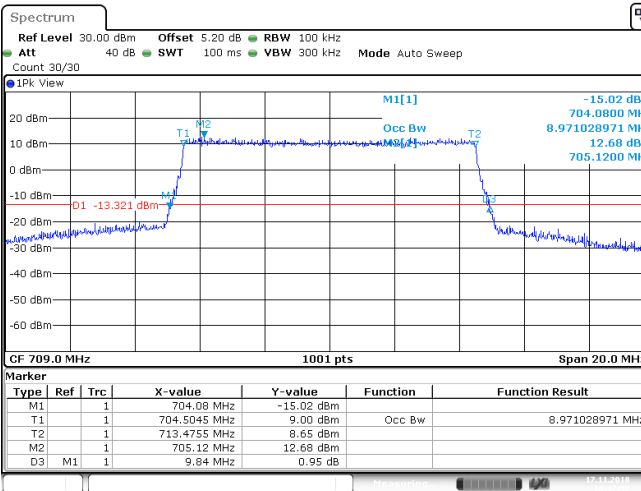
Date: 15 NOV 2018 12:54:53

**Band17\_10MHz\_64QAM\_23800\_50RB#0**



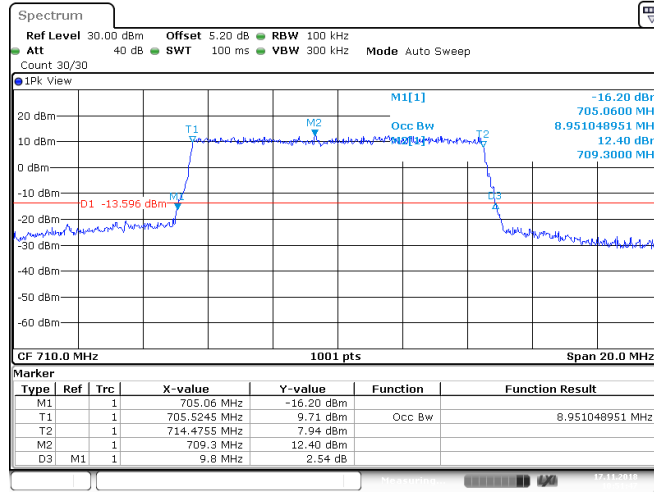
Date: 15 NOV 2018 12:55:26

**Band17\_10MHz\_16QAM\_23780\_50RB#0**



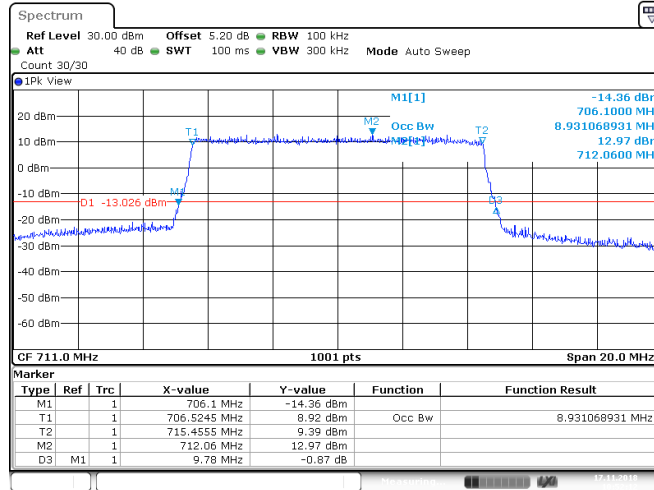
Date: 17 NOV 2018 10:47:58

**Band17\_10MHz\_16QAM\_23790\_50RB#0**



Date: 17 NOV 2018 10:51:47

**Band17\_10MHz\_16QAM\_23800\_50RB#0**

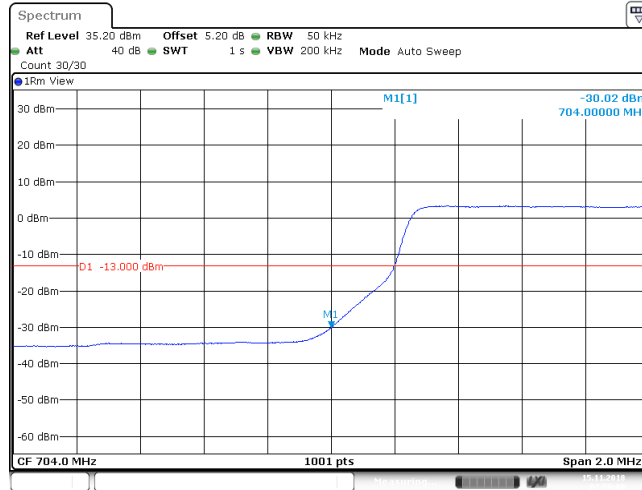


Date: 17 NOV 2018 10:52:42

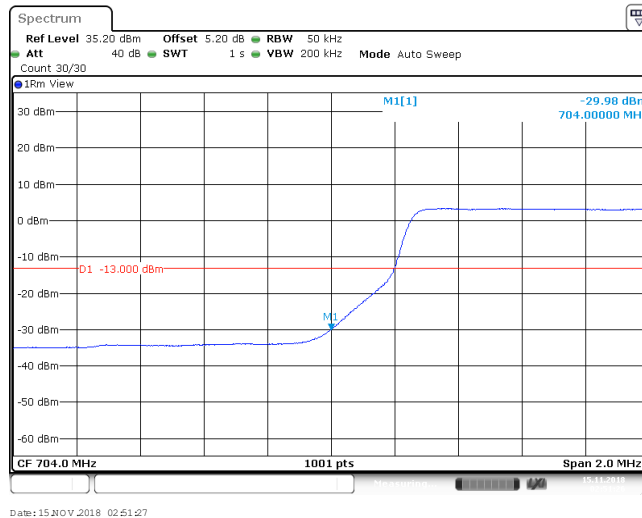
## 5. Band Edge Compliance

### 5.1. Test Plots

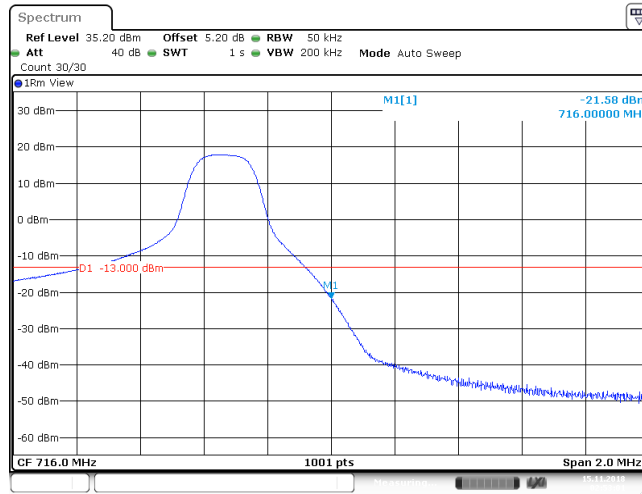
Band17\_5MHz\_QPSK\_23755\_1RB#0



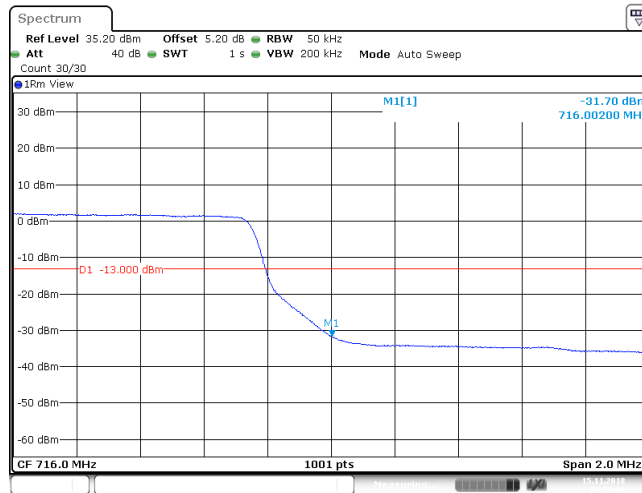
Band17\_5MHz\_QPSK\_23755\_25RB#0



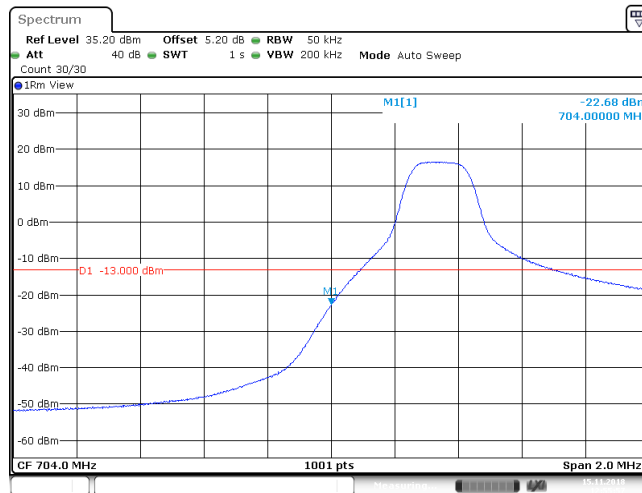
Band17\_5MHz\_QPSK\_23825\_1RB#24



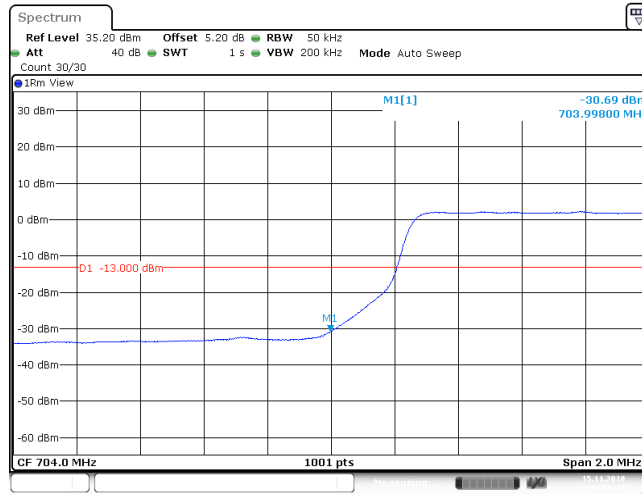
**Band17\_5MHz\_QPSK\_23825\_25RB#0**



**Band17\_5MHz\_64QAM\_23755\_1RB#0**

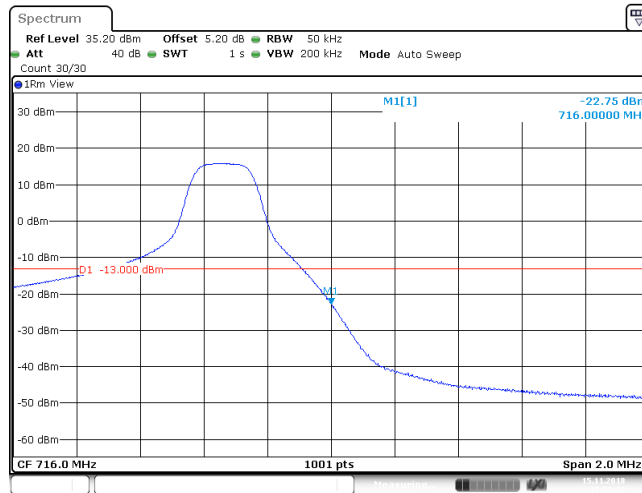


**Band17\_5MHz\_64QAM\_23755\_25RB#0**



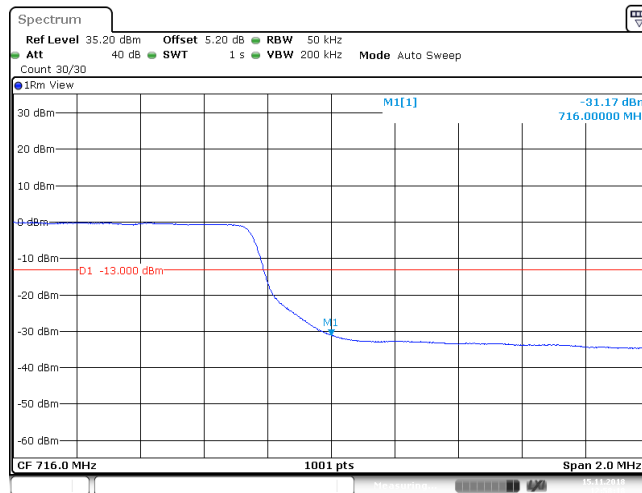
Date: 15 NOV 2018 12:56:43

**Band17\_5MHz\_64QAM\_23825\_1RB#24**



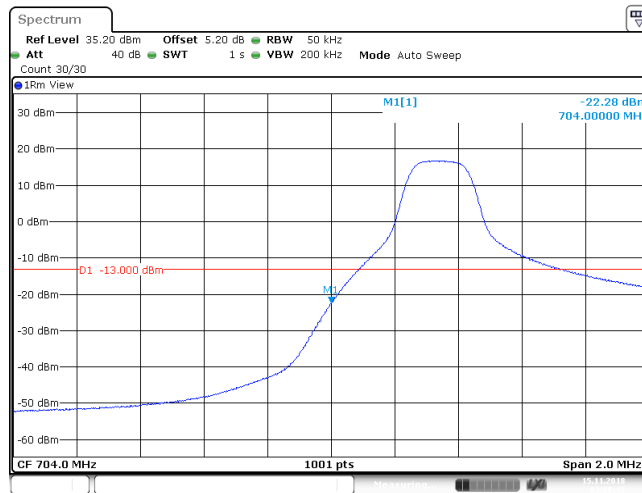
Date: 15 NOV 2018 12:57:33

**Band17\_5MHz\_64QAM\_23825\_25RB#0**



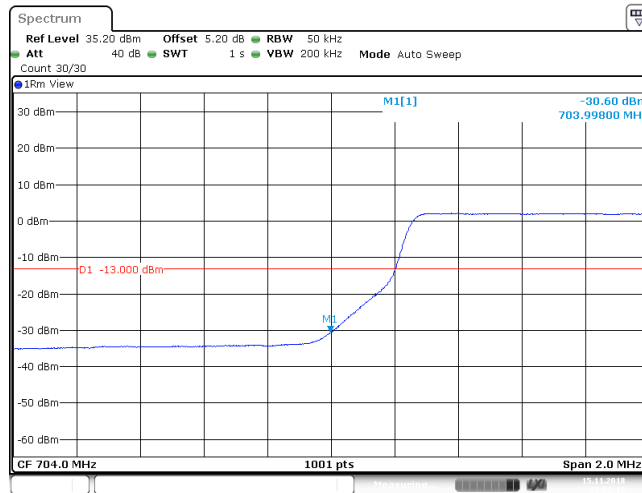
Date: 15 NOV 2018 12:58:19

**Band17\_5MHz\_16QAM\_23755\_1RB#0**



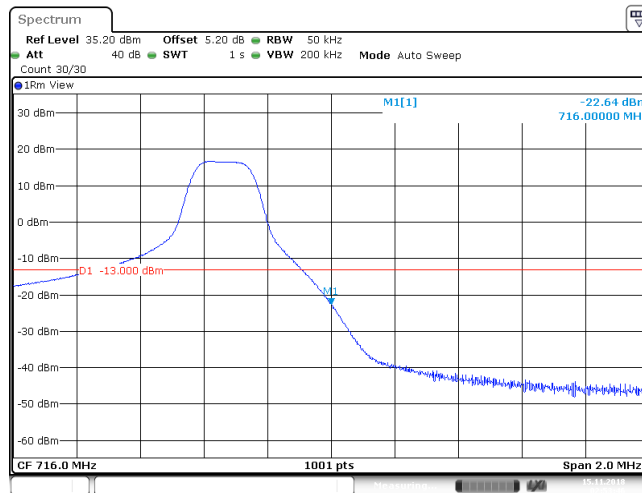
Date: 15 NOV 2018 02:50:43

**Band17\_5MHz\_16QAM\_23755\_25RB#0**



Date: 15 NOV 2018 02:52:10

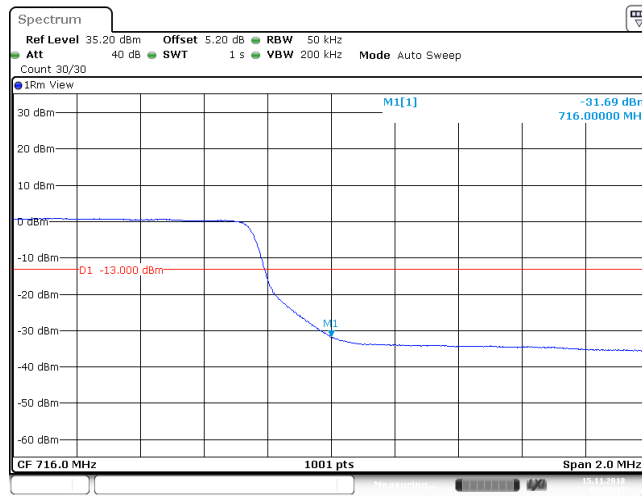
**Band17\_5MHz\_16QAM\_23825\_1RB#24**



Date: 15 NOV 2018 02:53:46

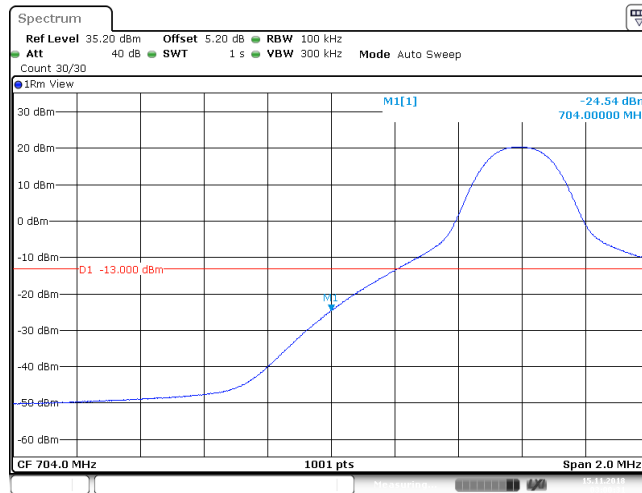
**Band17\_5MHz\_16QAM\_23825\_25RB#0**





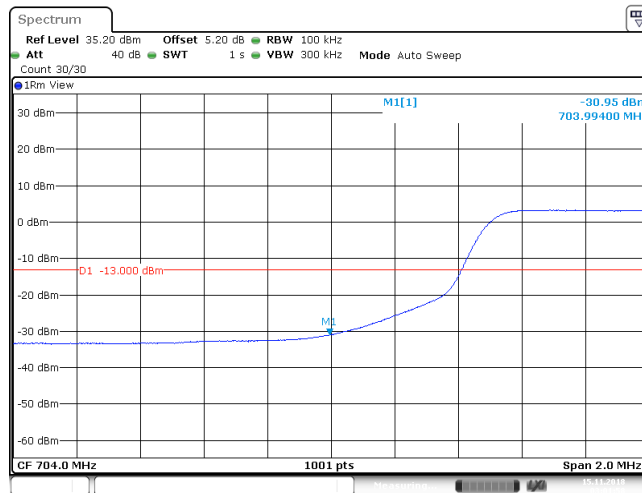
Date: 15 NOV 2018 02:55:13

**Band17\_10MHz\_QPSK\_23780\_1RB#0**



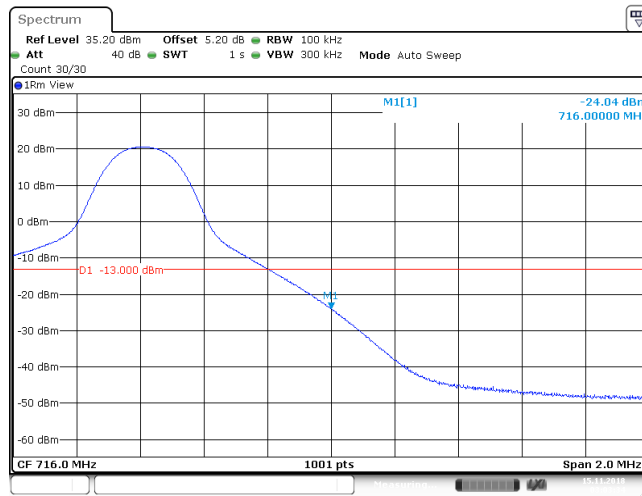
Date: 15 NOV 2018 03:00:51

**Band17\_10MHz\_QPSK\_23780\_50RB#0**



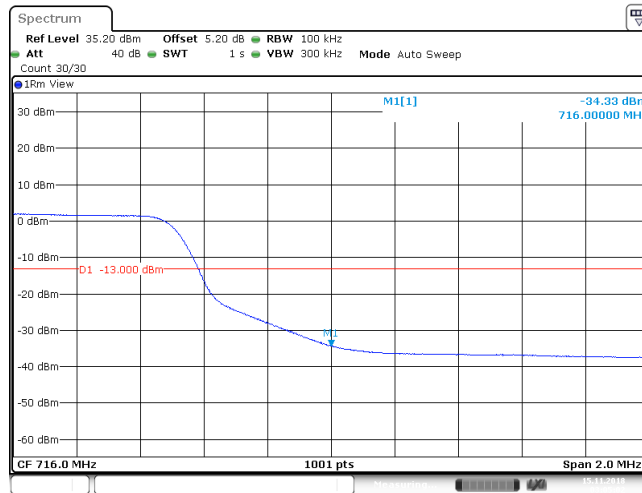
Date: 15 NOV 2018 03:01:59

**Band17\_10MHz\_QPSK\_23800\_1RB#49**



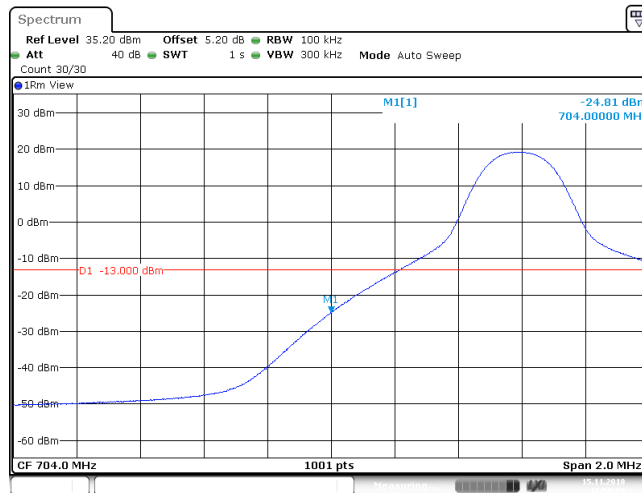
Date: 15 NOV 2018 03:03:35

**Band17\_10MHz\_QPSK\_23800\_50RB#0**



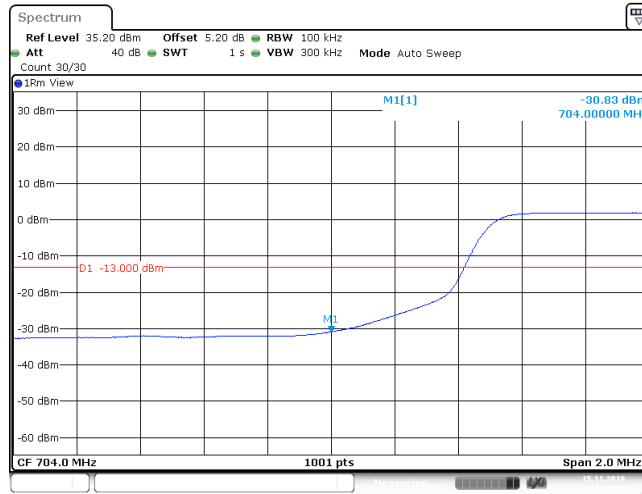
Date: 15 NOV 2018 03:05:03

**Band17\_10MHz\_64QAM\_23780\_1RB#0**



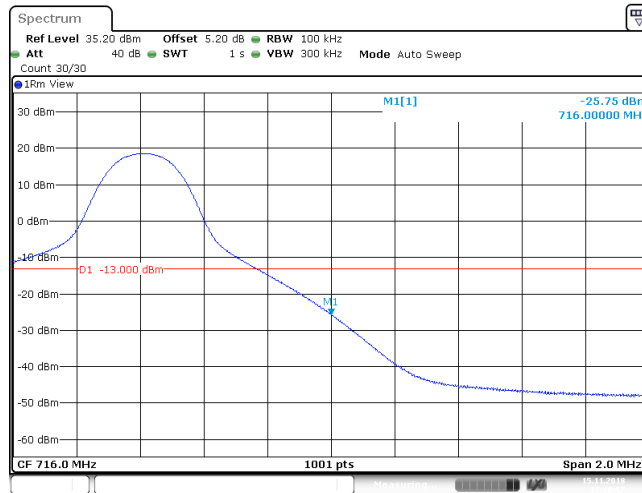
Date: 15 NOV 2018 12:59:10

**Band17\_10MHz\_64QAM\_23780\_50RB#0**



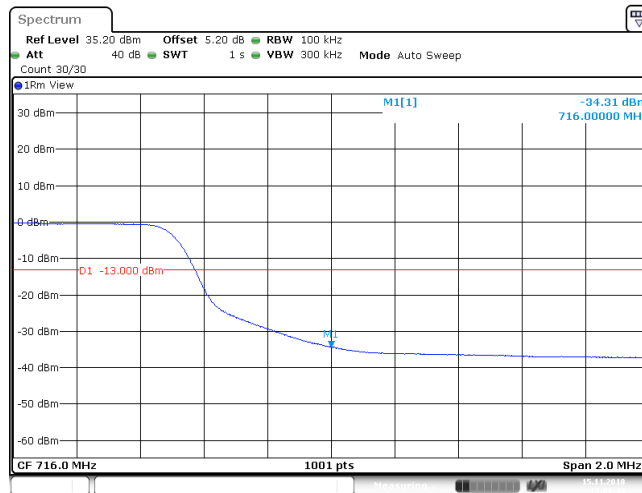
Date: 15 NOV 2018 13:50:07

**Band17\_10MHz\_64QAM\_23800\_1RB#49**



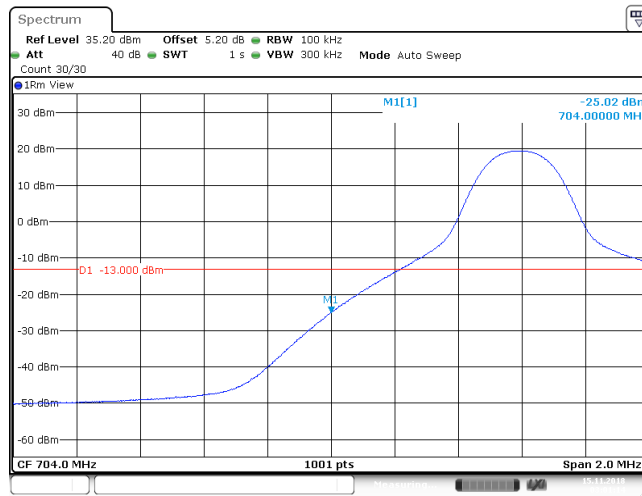
Date: 15 NOV 2018 13:50:57

**Band17\_10MHz\_64QAM\_23800\_50RB#0**



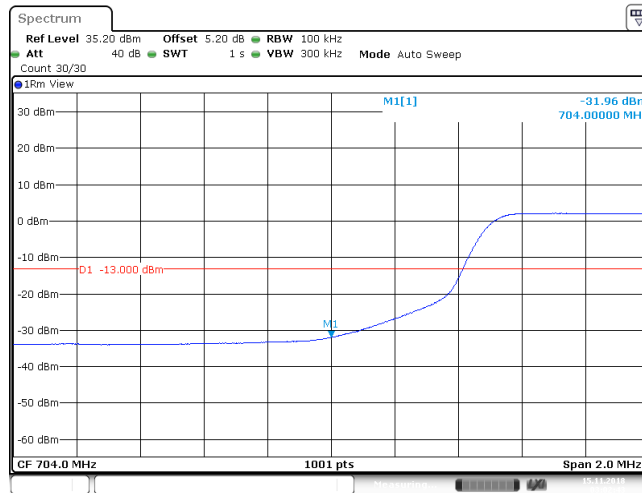
Date: 15 NOV 2018 13:51:43

**Band17\_10MHz\_16QAM\_23780\_1RB#0**



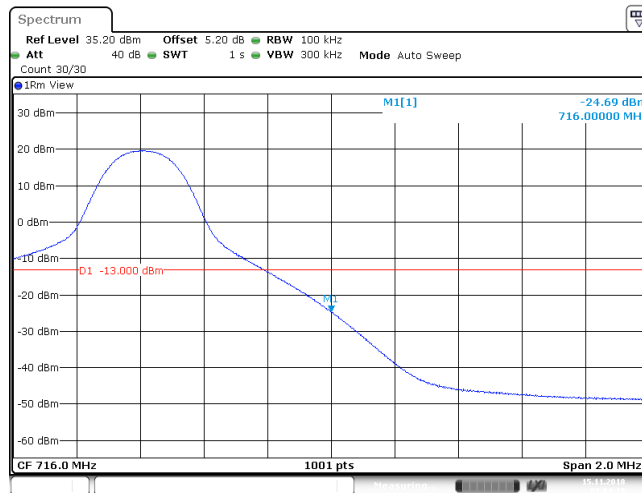
Date: 15 NOV 2018 03:01:15

**Band17\_10MHz\_16QAM\_23780\_50RB#0**



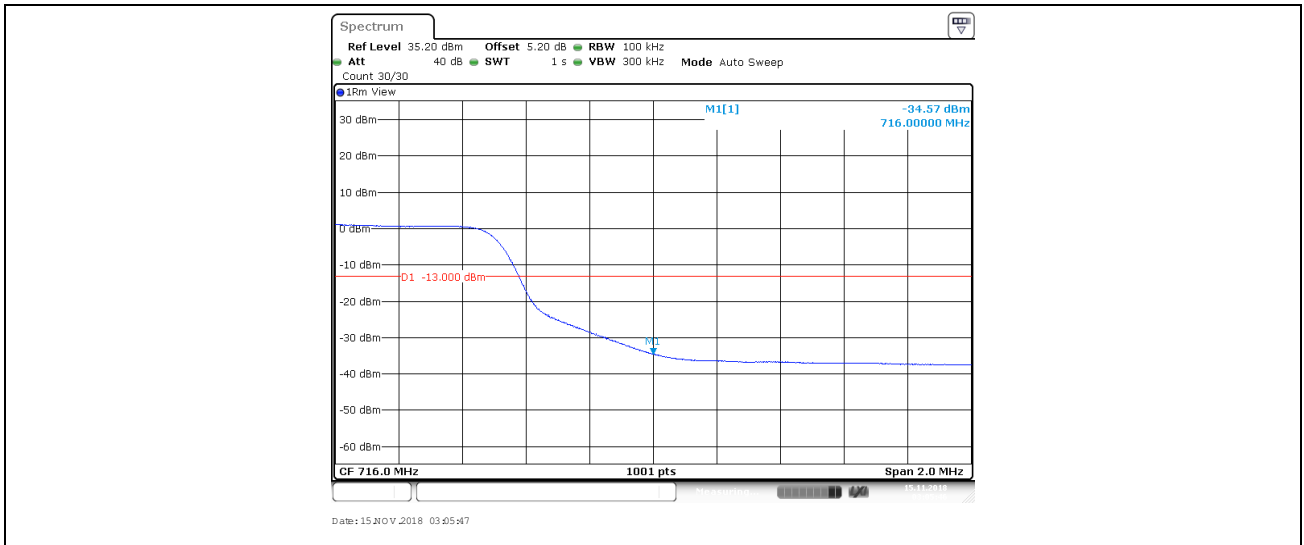
Date: 15 NOV 2018 03:02:43

**Band17\_10MHz\_16QAM\_23800\_1RB#49**



Date: 15 NOV 2018 03:04:19

**Band17\_10MHz\_16QAM\_23800\_50RB#0**

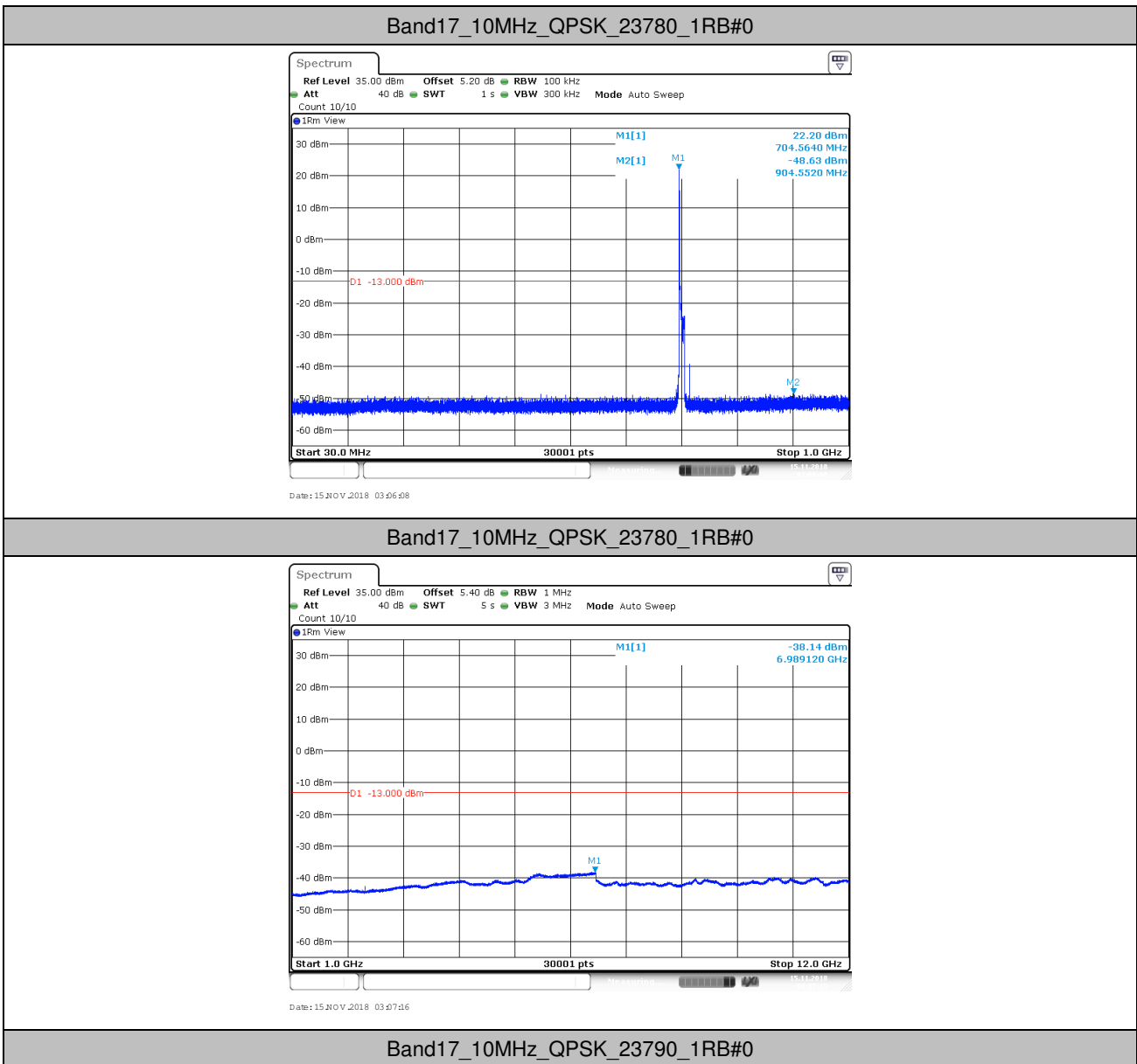


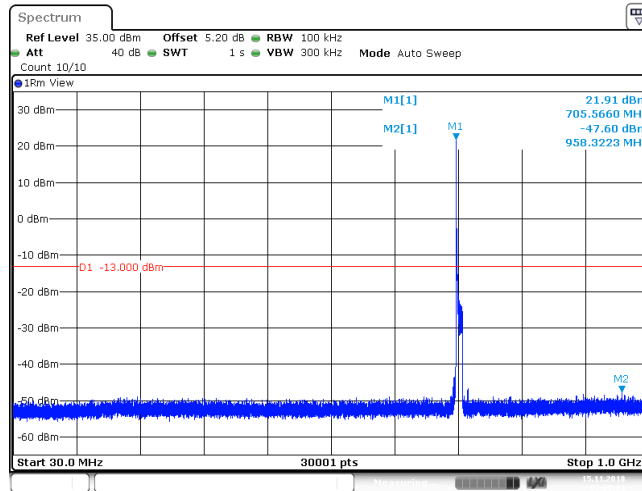
## 6. Spurious Emission at Antenna Terminal

Remark1: 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.

Remark2: only the worst case data displayed in this report.

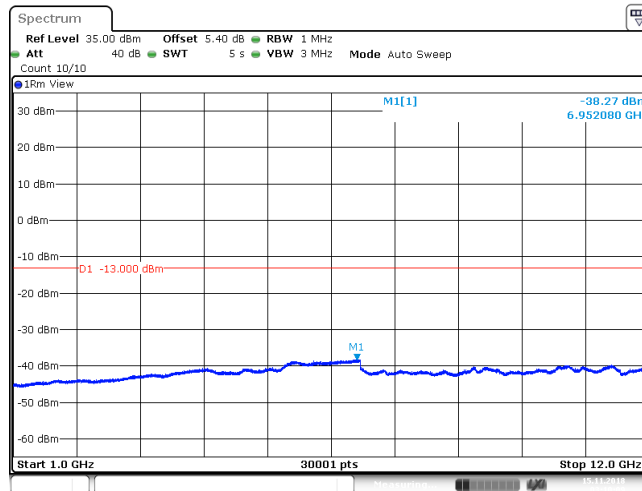
### 6.1. Test Plots





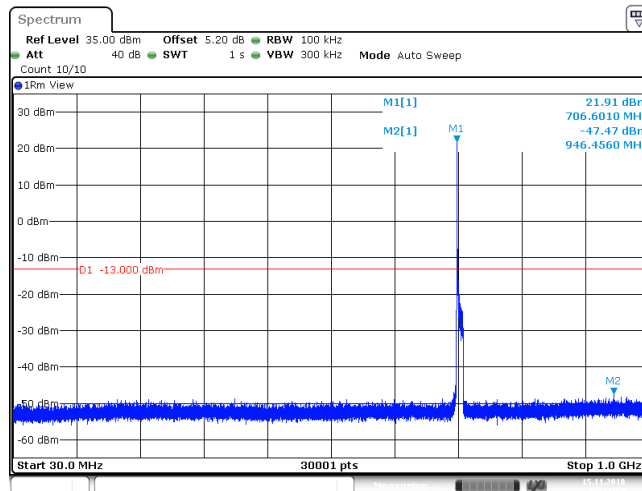
Date: 15 NOV 2018 03:09:01

**Band17\_10MHz\_QPSK\_23790\_1RB#0**



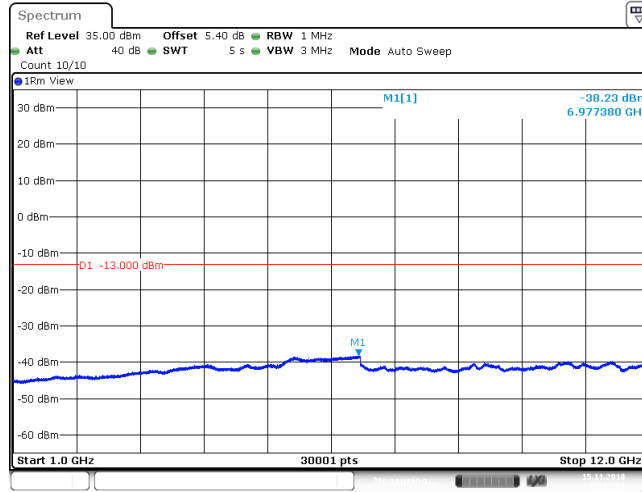
Date: 15 NOV 2018 03:10:09

**Band17\_10MHz\_QPSK\_23800\_1RB#0**



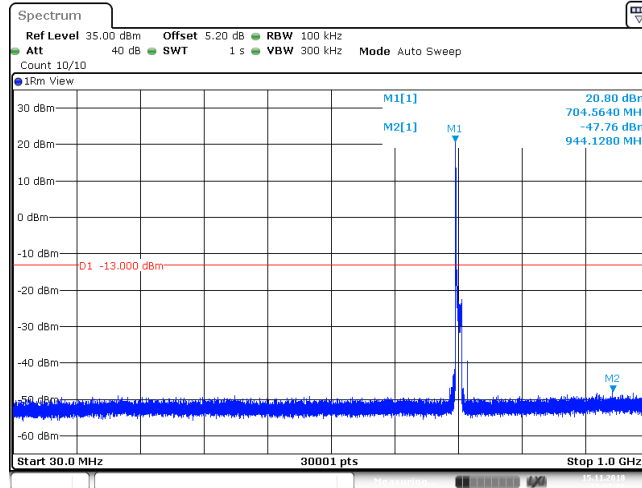
Date: 15 NOV 2018 03:11:54

**Band17\_10MHz\_QPSK\_23800\_1RB#0**



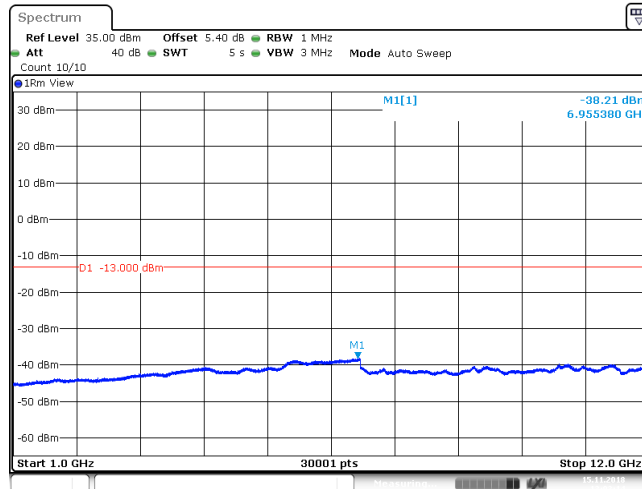
Date: 15 NOV 2018 03:13:02

**Band17\_10MHz\_64QAM\_23780\_1RB#0**



Date: 15 NOV 2018 13:02:07

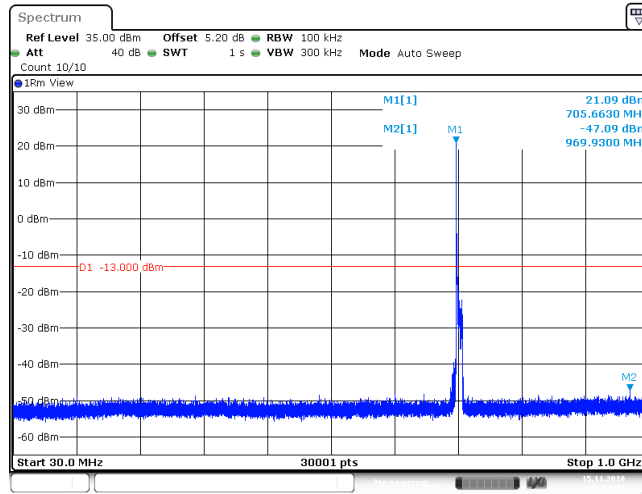
**Band17\_10MHz\_64QAM\_23780\_1RB#0**



Date: 15 NOV 2018 13:03:14

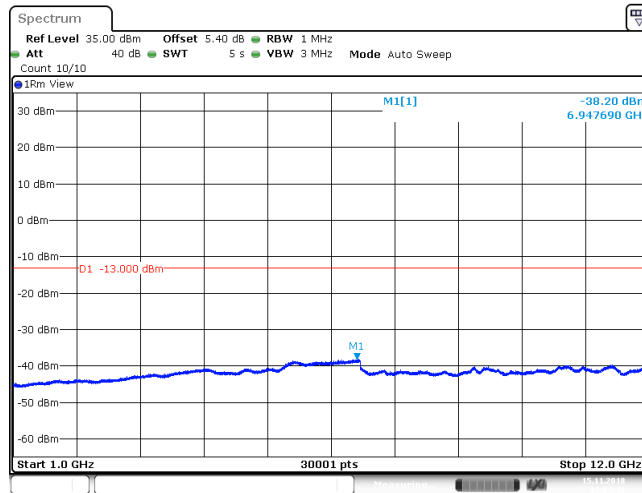
**Band17\_10MHz\_64QAM\_23790\_1RB#0**





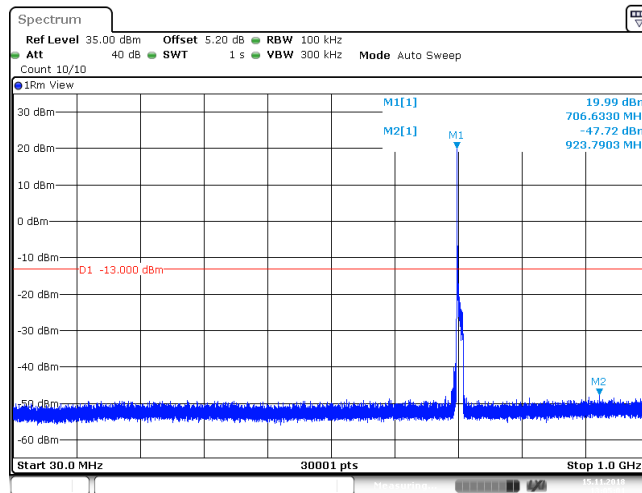
Date: 15 NOV 2018 13:03:34

**Band17\_10MHz\_64QAM\_23790\_1RB#0**



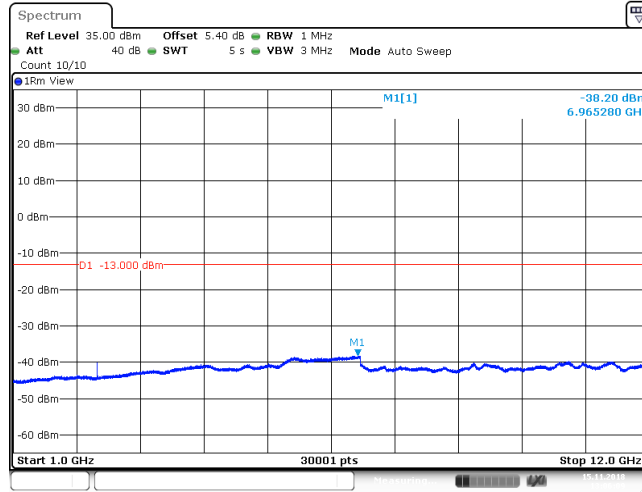
Date: 15 NOV 2018 13:04:41

**Band17\_10MHz\_64QAM\_23800\_1RB#0**



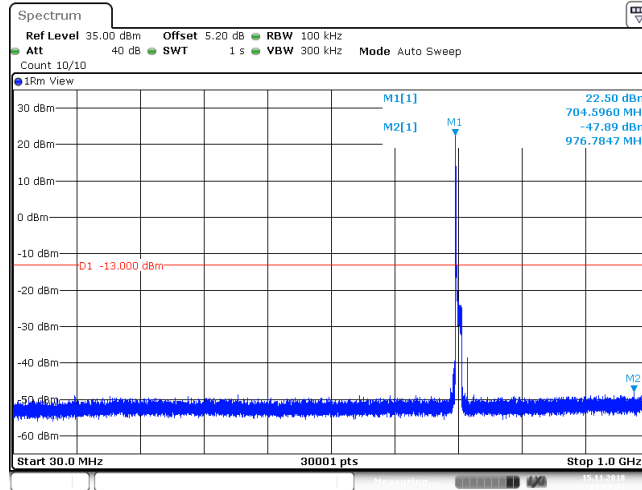
Date: 15 NOV 2018 13:05:01

**Band17\_10MHz\_64QAM\_23800\_1RB#0**



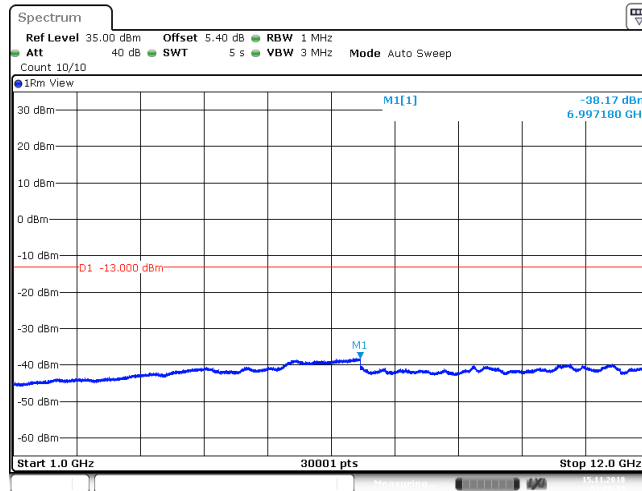
Date: 15 NOV 2018 13:06:08

**Band17\_10MHz\_16QAM\_23780\_1RB#0**



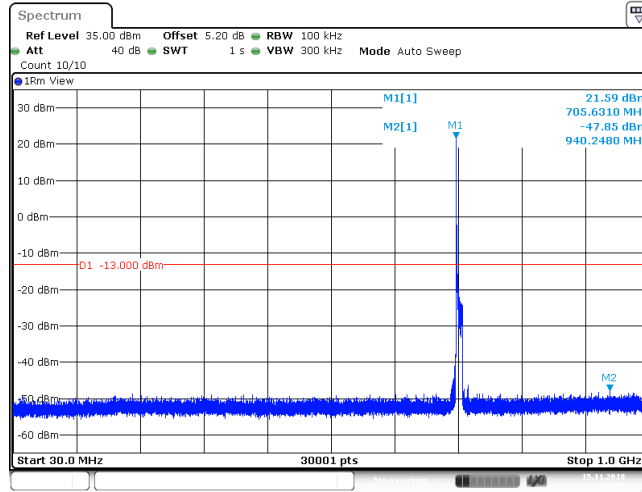
Date: 15 NOV 2018 03:07:33

**Band17\_10MHz\_16QAM\_23780\_1RB#0**



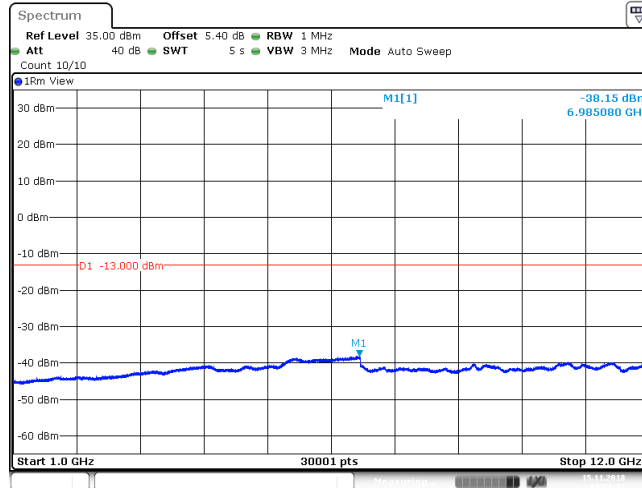
Date: 15 NOV 2018 03:08:40

**Band17\_10MHz\_16QAM\_23790\_1RB#0**



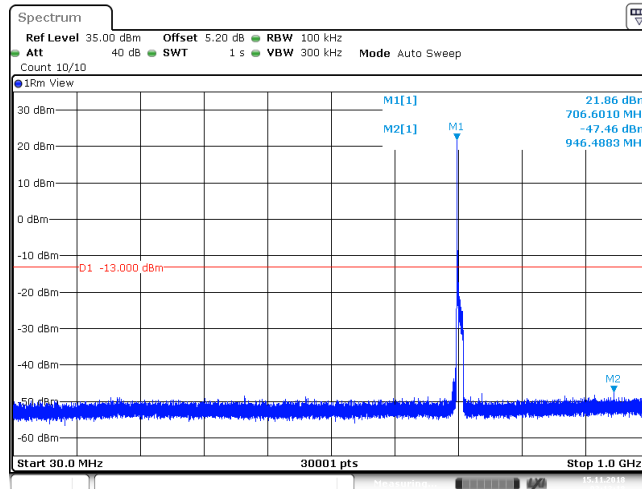
Date: 15 NOV 2018 03:10:26

**Band17\_10MHz\_16QAM\_23790\_1RB#0**



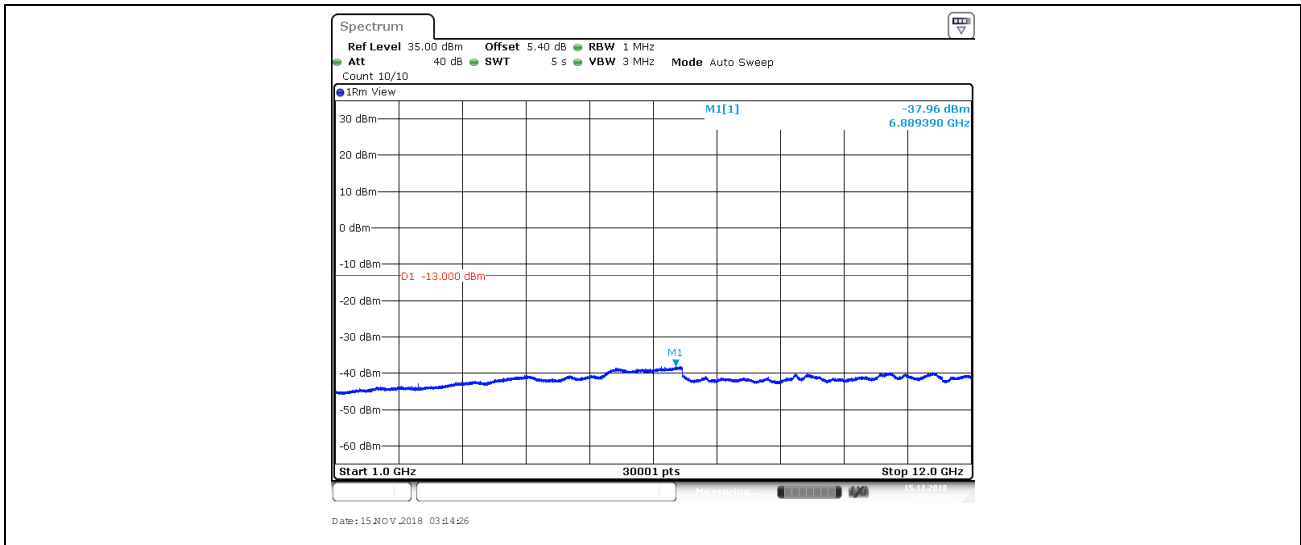
Date: 15 NOV 2018 03:11:33

**Band17\_10MHz\_16QAM\_23800\_1RB#0**



Date: 15 NOV 2018 03:13:19

**Band17\_10MHz\_16QAM\_23800\_1RB#0**



## 7. Field Strength of Spurious Radiation

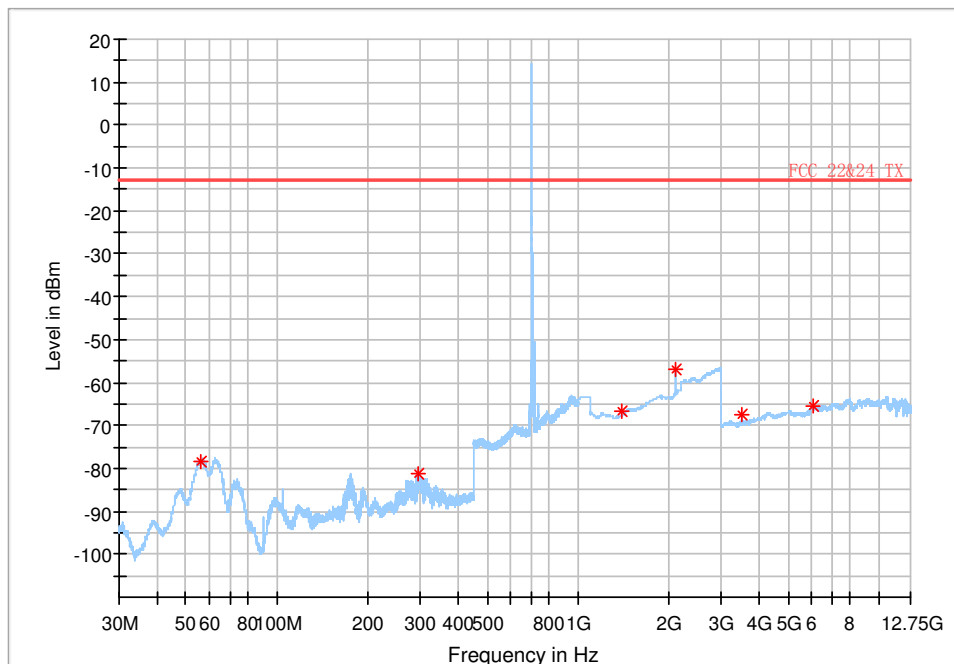
### 7.1. Test BAND = LTE BAND 17

#### 7.1.1. Test Mode = LTE/TM1 10MHz

##### 7.1.1.1. Test Channel = LCH

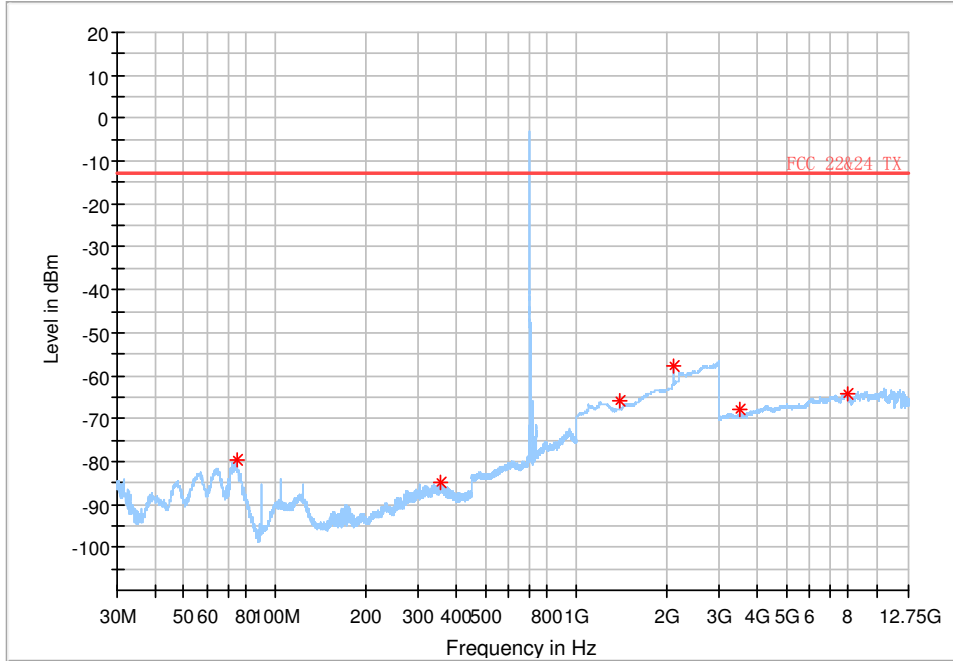
##### 7.1.1.1.1. Polarity = Horizontal

Full Spectrum



**7.1.1.1.2. Polarity=Vertical**

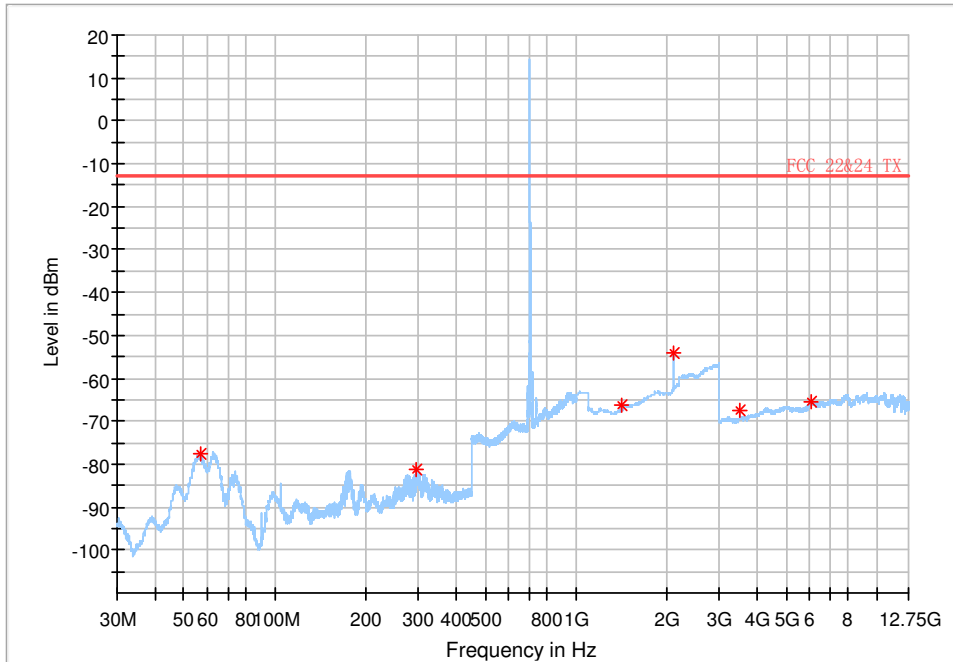
Full Spectrum



**7.1.1.2. Test Channel = MCH**

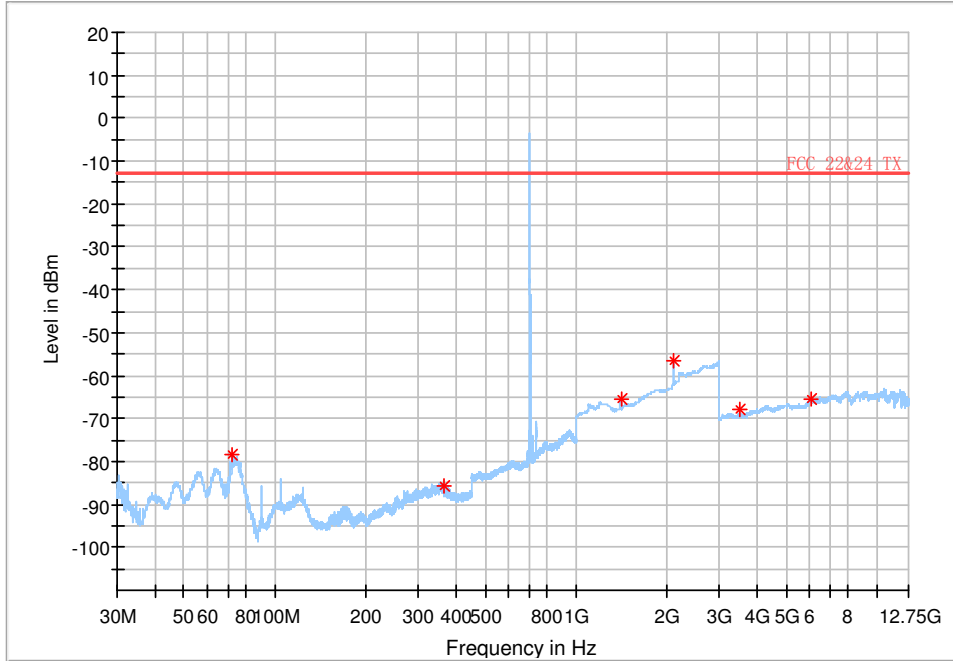
**7.1.1.2.1. Polarity=Horizontal**

Full Spectrum



**7.1.1.2.2. Polarity=Vertical**

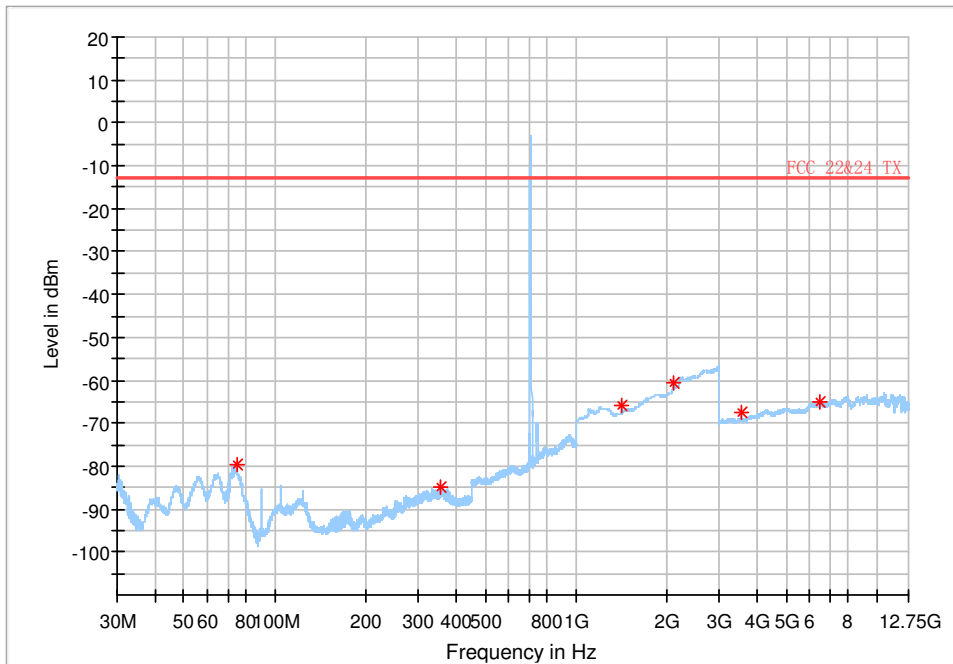
Full Spectrum



**7.1.1.3. Test Channel = HCH**

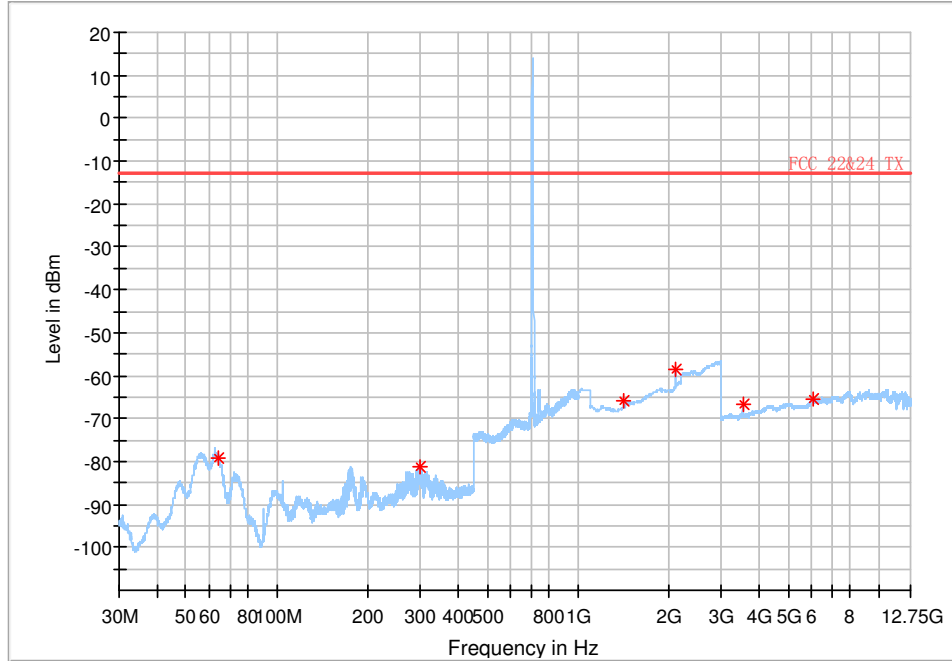
**7.1.1.3.1. Polarity=Horizontal**

Full Spectrum



**7.1.1.3.2. Polarity=Vertical**

Full Spectrum



**Remark:**

- 1) The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data 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	2.25	0.003173	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	VN	NT	-2.57	-0.003625	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	VH	NT	2.25	0.003173	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VL	NT	2.43	0.003423	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VN	NT	2.60	0.003662	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VH	NT	3.05	0.004296	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VL	NT	-2.82	-0.003966	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VN	NT	-3.00	-0.004219	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VH	NT	-2.66	-0.003741	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	VL	NT	-0.90	-0.001269	±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	0.00	0.000000	±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	0.40	0.000563	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	VH	NT	-0.30	-0.000423	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	VL	NT	0.00	0.000000	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	VN	NT	-0.50	-0.000703	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	VH	NT	-0.20	-0.000281	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VL	NT	-2.75	-0.003879	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VN	NT	-2.76	-0.003893	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VH	NT	2.17	0.003061	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VL	NT	-2.39	-0.003366	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VN	NT	-2.79	-0.003930	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VH	NT	-3.63	-0.005113	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	VL	NT	-2.42	-0.003404	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	VN	NT	-3.52	-0.004951	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	VH	NT	-2.36	-0.003319	±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	2.19	0.003089	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	-20	2.23	0.003145	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	0	3.03	0.004274	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	10	2.29	0.003230	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	20	-2.66	-0.003752	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	30	3.16	0.004457	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	40	2.40	0.003385	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	50	2.65	0.003738	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-30	-2.57	-0.003620	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-20	-2.32	-0.003268	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	0	2.86	0.004028	±2.5	PASS



Band17	10MHz	QPSK	23790	50RB#0	NV	10	-2.83	-0.003986	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	20	-2.68	-0.003775	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	30	-2.45	-0.003451	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	40	-2.16	-0.003042	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	50	-3.40	-0.004789	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-30	-3.16	-0.004444	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-20	-3.13	-0.004402	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	0	-2.33	-0.003277	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	10	-3.81	-0.005359	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	20	-3.09	-0.004346	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	30	-2.32	-0.003263	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	40	-3.13	-0.004402	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	50	-2.65	-0.003727	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	-30	0.30	0.000423	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	-20	0.20	0.000282	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	0	0.20	0.000282	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	10	-0.10	-0.000141	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	20	0.10	0.000141	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	30	-0.60	-0.000846	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	40	0.10	0.000141	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	50	0.40	0.000564	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	-30	-0.30	-0.000423	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	-20	-0.40	-0.000563	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	0	-0.70	-0.000986	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	10	-1.20	-0.001690	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	20	0.00	0.000000	±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	40	0.10	0.000141	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	50	-0.40	-0.000563	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	-30	-0.40	-0.000563	±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	-0.30	-0.000422	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	20	-0.90	-0.001266	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	30	-0.40	-0.000563	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	40	-0.20	-0.000281	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	50	-1.00	-0.001406	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	-30	2.42	0.003413	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	-20	-3.08	-0.004344	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	0	-2.09	-0.002948	±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	-3.40	-0.004795	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	30	-3.13	-0.004415	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	40	-2.66	-0.003752	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	50	2.50	0.003526	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	-30	-2.95	-0.004155	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	-20	-2.98	-0.004197	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	0	-2.10	-0.002958	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	10	-3.06	-0.004310	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	20	-2.52	-0.003549	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	30	-2.39	-0.003366	±2.5	PASS



Band17	10MHz	16QAM	23790	50RB#0	NV	40	-3.33	-0.004690	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	50	-3.22	-0.004535	±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	-2.42	-0.003404	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	0	-2.39	-0.003361	±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	-2.43	-0.003418	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	30	-2.78	-0.003910	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	40	-2.62	-0.003685	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	50	2.26	0.003179	±2.5	PASS

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The End