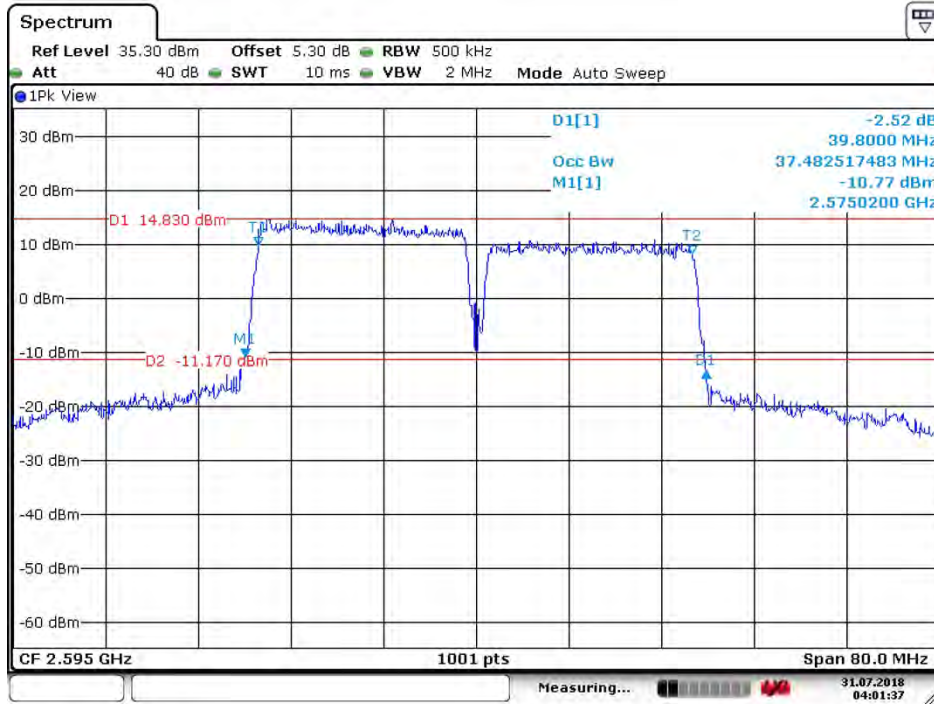
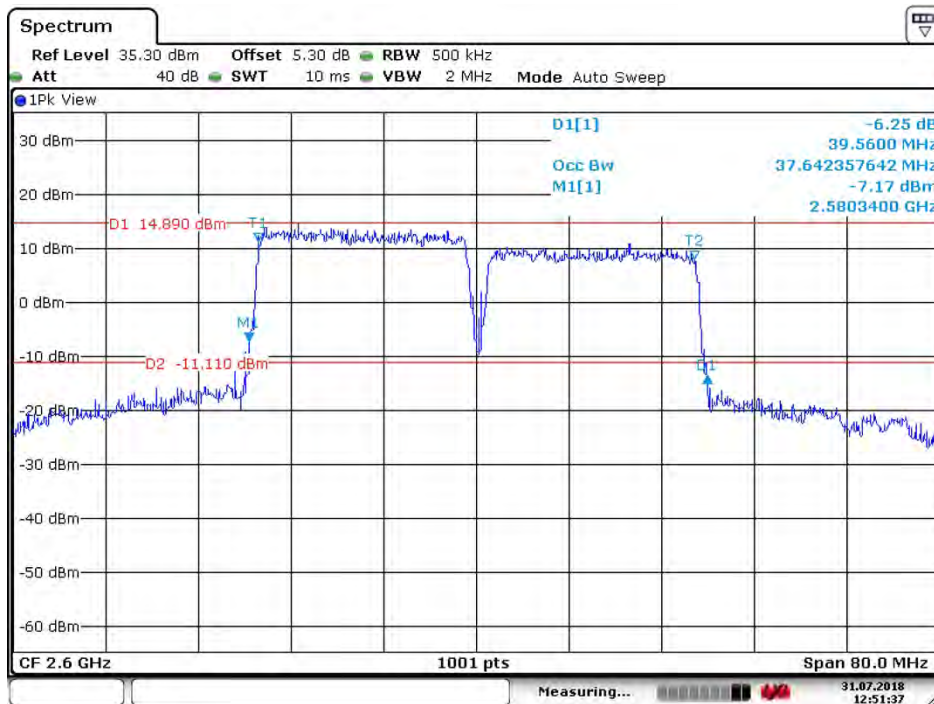


**4.1.2.2.2 Test Channel = 37901-38099**



Date: 31.JUL.2018 04:01:37

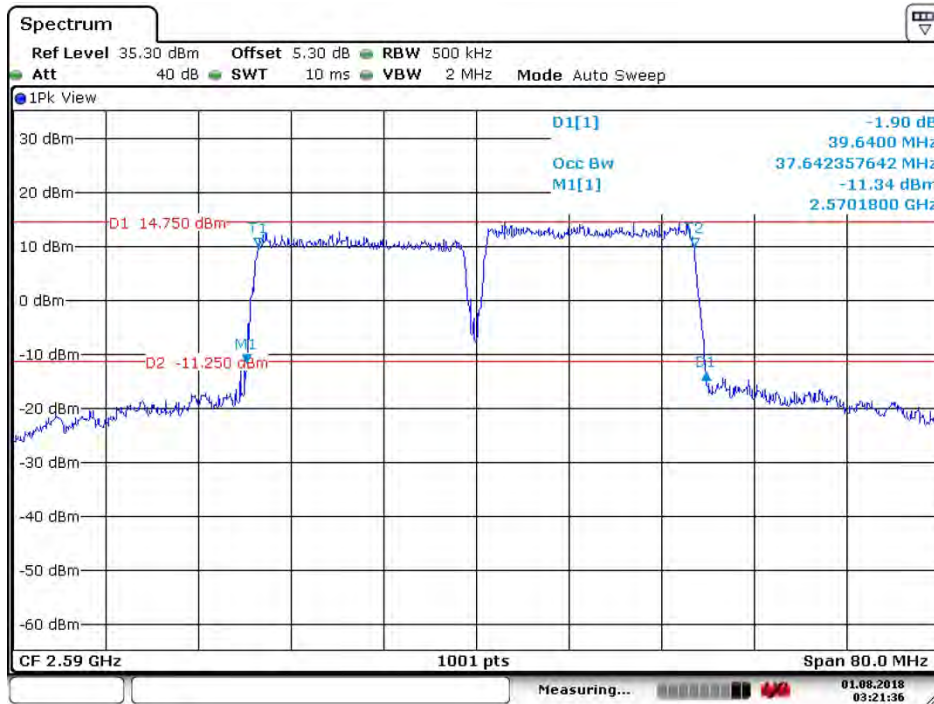
**4.1.2.2.3 Test Channel = 37952-38150**



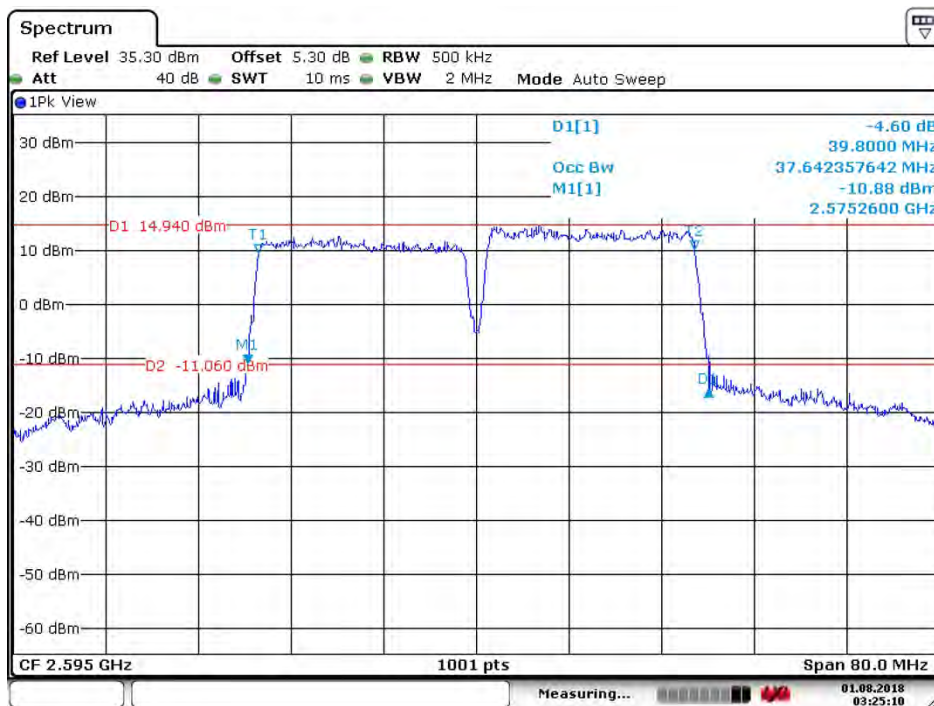
Date: 31.JUL.2018 12:51:38



4.1.2.2.4 Test Channel = 38048-37850



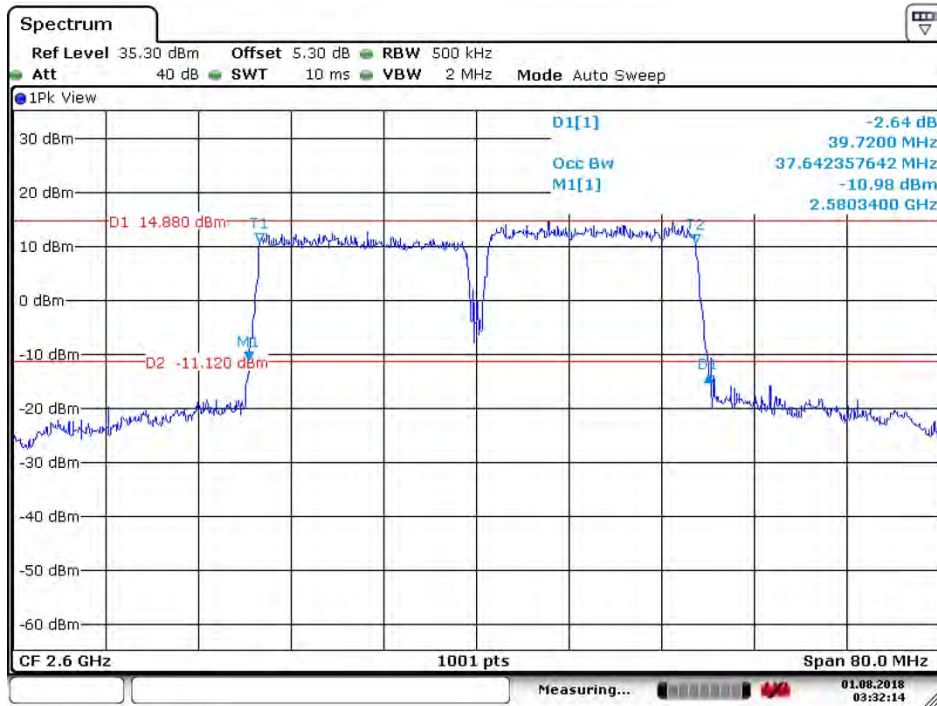
4.1.2.2.5 Test Channel = 38099-37901



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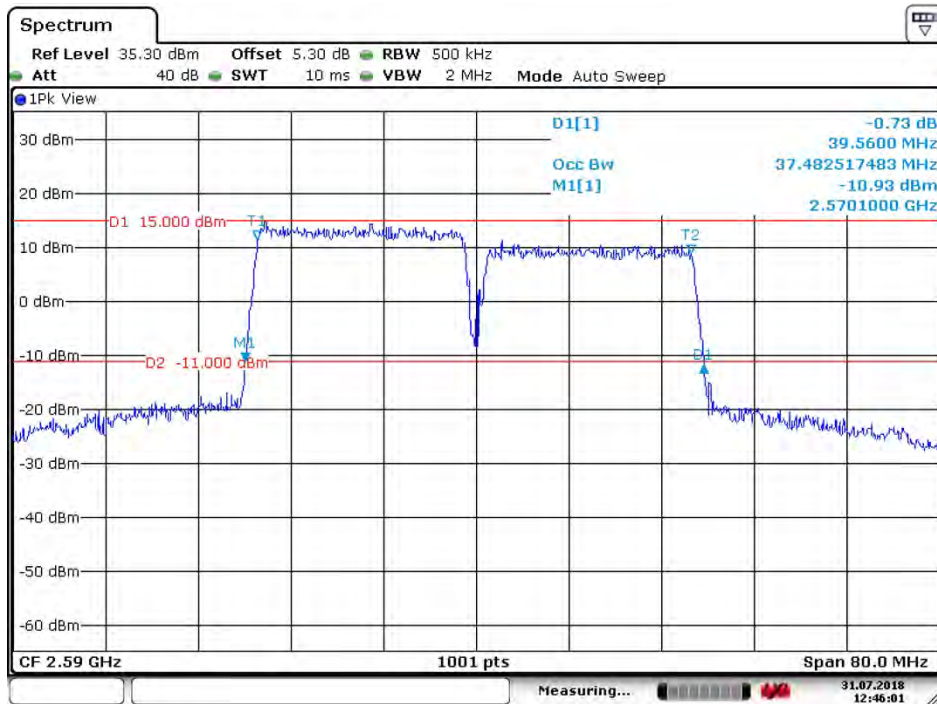
4.1.2.2.6 Test Channel = 38150-37952



Date: 1.AUG.2018 03:32:14

4.1.2.3 Test Mode = LTE/TM3

4.1.2.3.1 Test Channel = 37850-38048



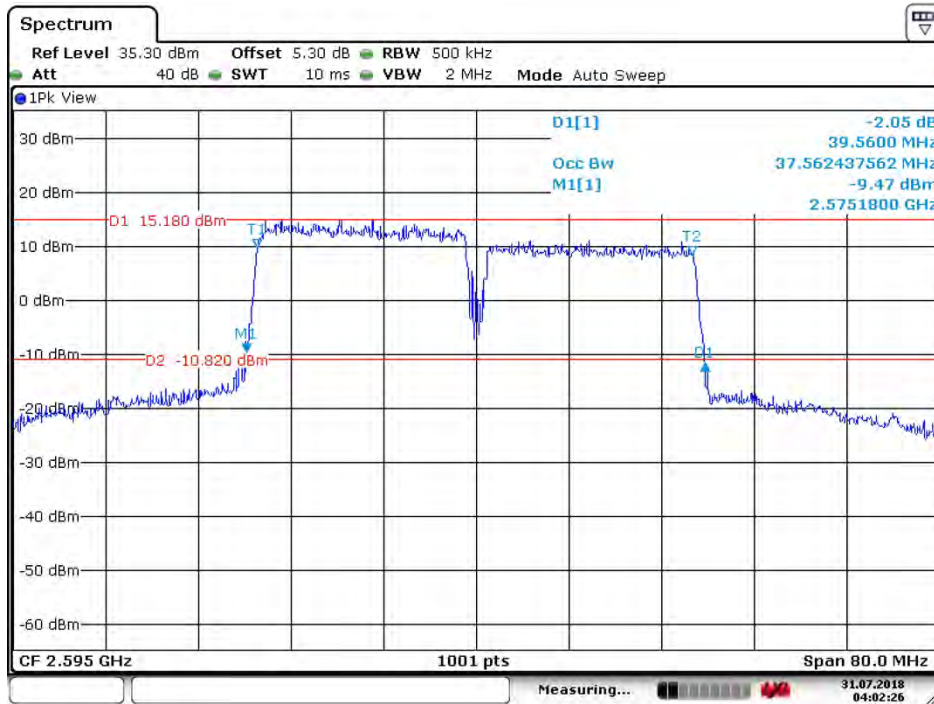
Date: 31.JUL.2018 12:46:01

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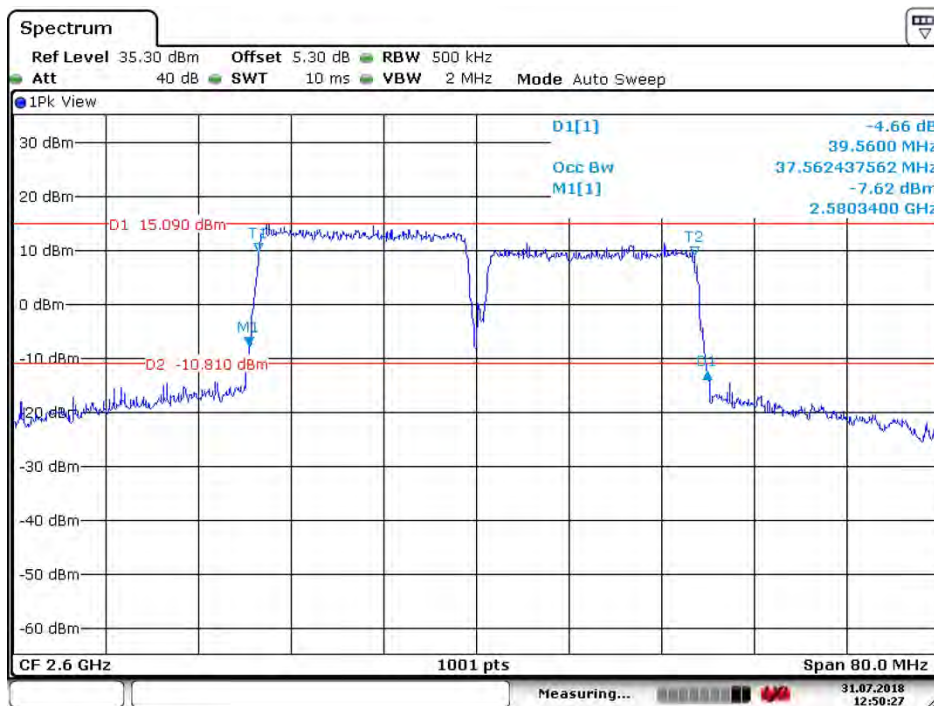


4.1.2.3.2 Test Channel = 37901-38099



Date: 31.JUL.2018 04:02:27

4.1.2.3.3 Test Channel = 37952-38150

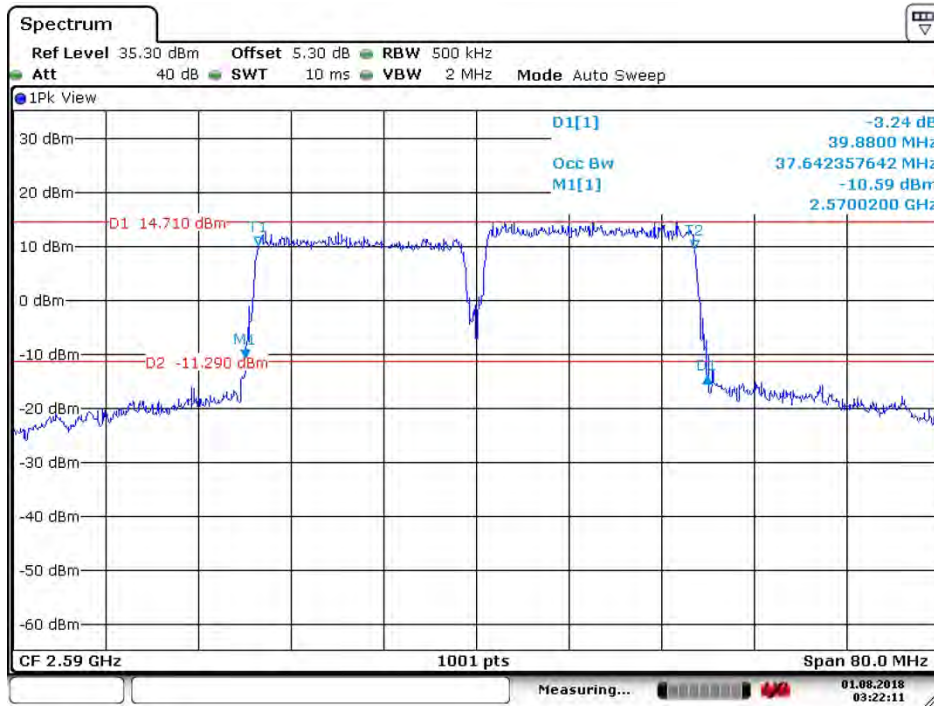


Date: 31.JUL.2018 12:50:28

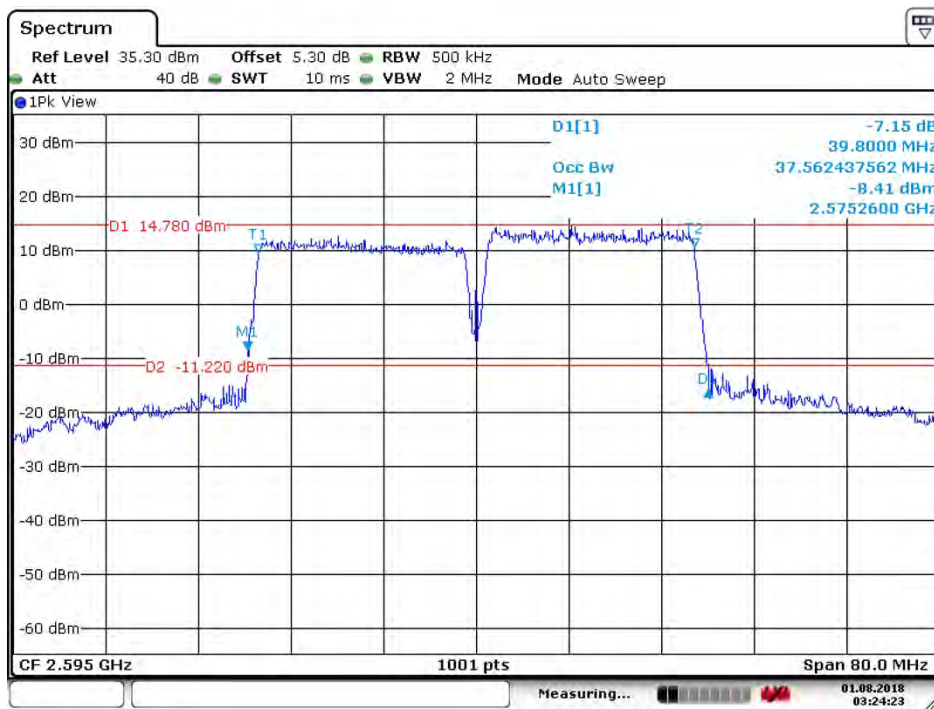
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4.1.2.3.4 Test Channel = 38048-37850



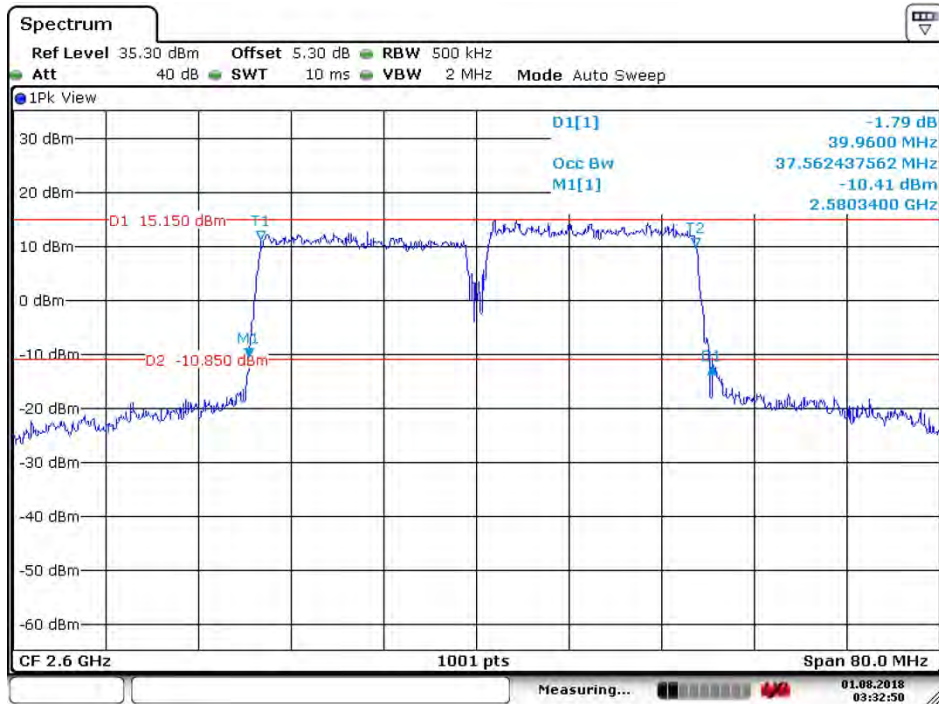
4.1.2.3.5 Test Channel = 38099-37901



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4.1.2.3.6 Test Channel = 38150-37952



Date: 1.AUG.2018 03:32:50

## 5 Band Edges Compliance

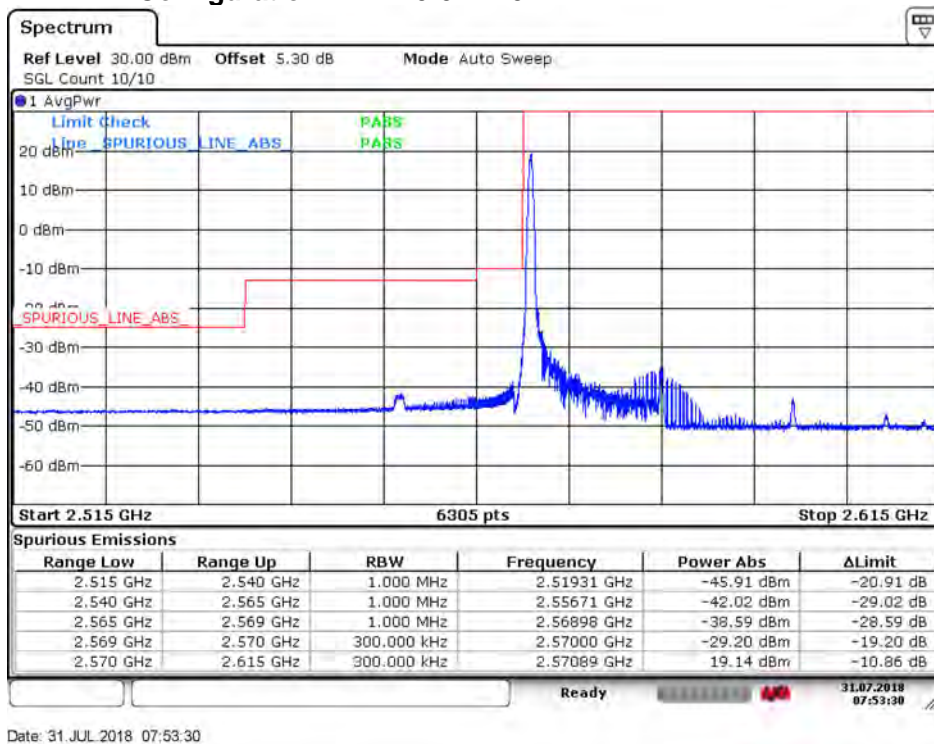
### 5.1 For LTE\_CA\_38C

#### 5.1.1 Test Band = Bandwidth=75RB+75RB

##### 5.1.1.1 Test Mode = LTE/TM1

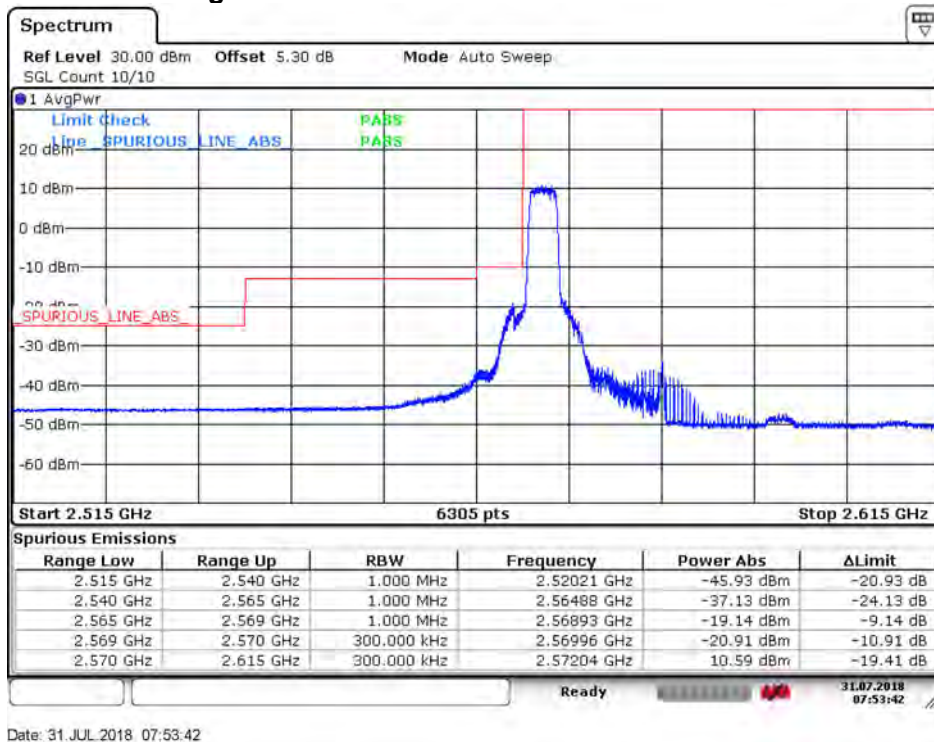
##### 5.1.1.1.1 Test Channel = 37825-37975

##### 5.1.1.1.1.1 RB Configuration =1RB#0-0RB#0

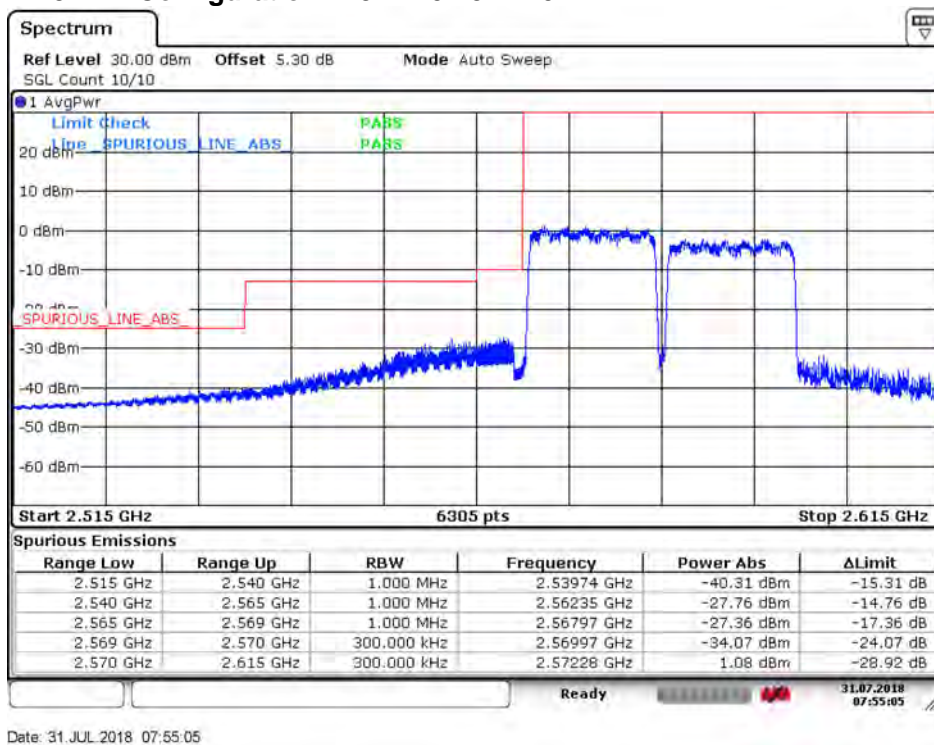




**5.1.1.1.2 RB Configuration =16RB#0-0RB#0**



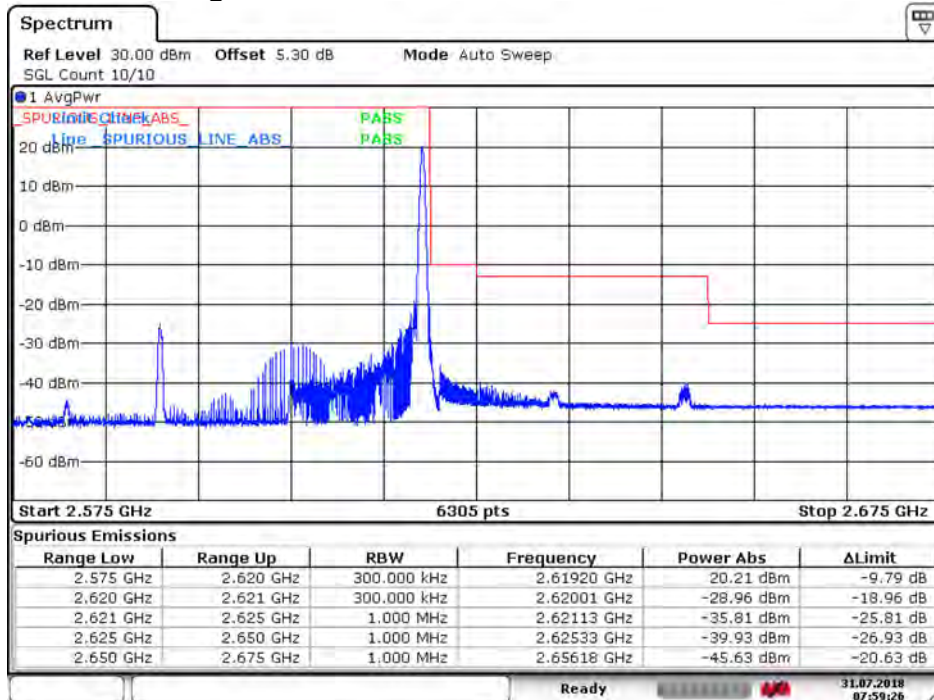
**5.1.1.1.3 RB Configuration =75RB#0-75RB#0**





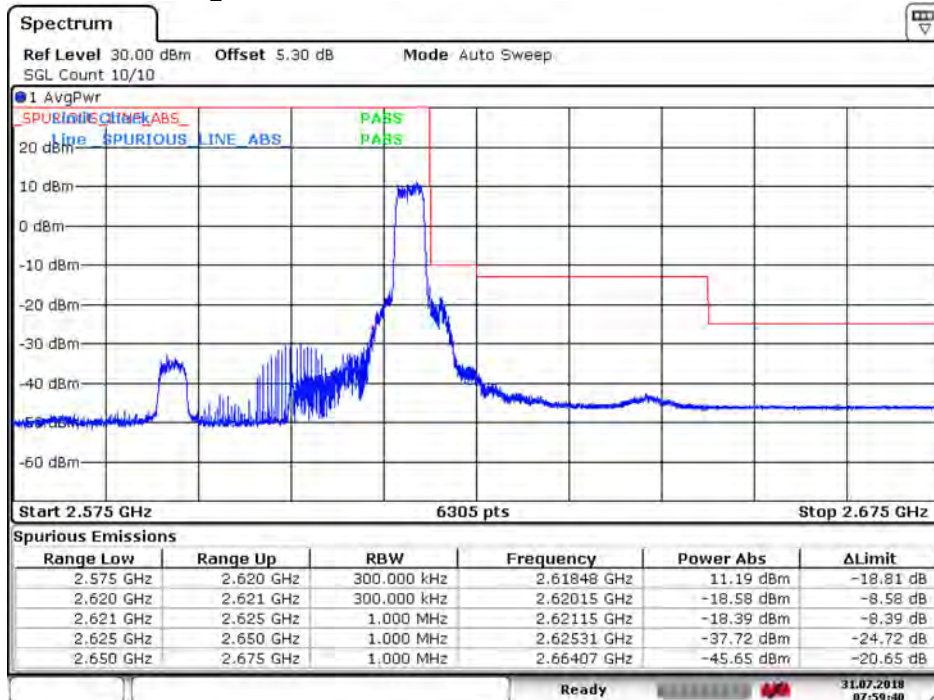
5.1.1.1.2 Test Channel = 38025-38175

5.1.1.1.2.1 RB Configuration =1RB#74-0RB#0



Date: 31 JUL 2018 07:59:26

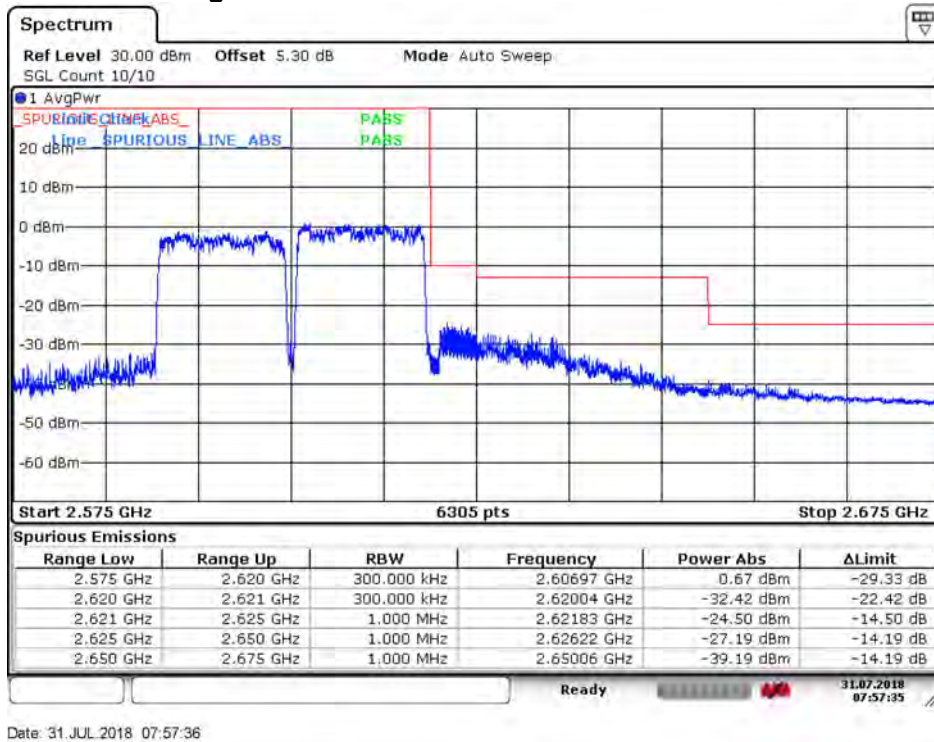
5.1.1.1.2.2 RB Configuration =16RB#59-0RB#0



Date: 31 JUL 2018 07:58:40

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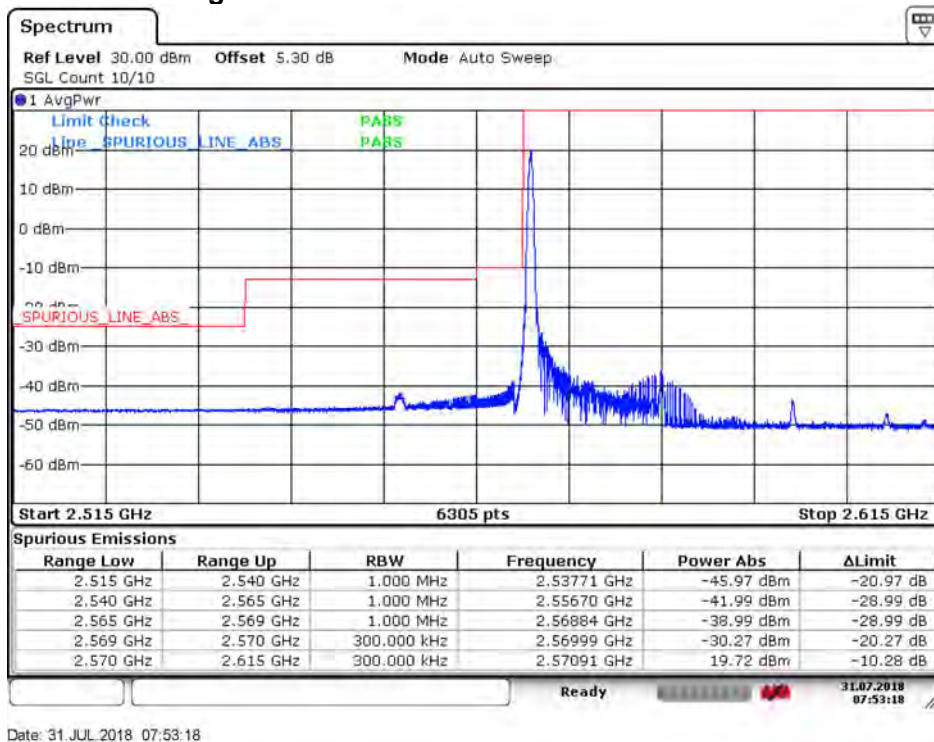
**5.1.1.1.2.3 RB Configuration =75RB#0-75RB#0**



**5.1.1.2 Test Mode = LTE/TM2**

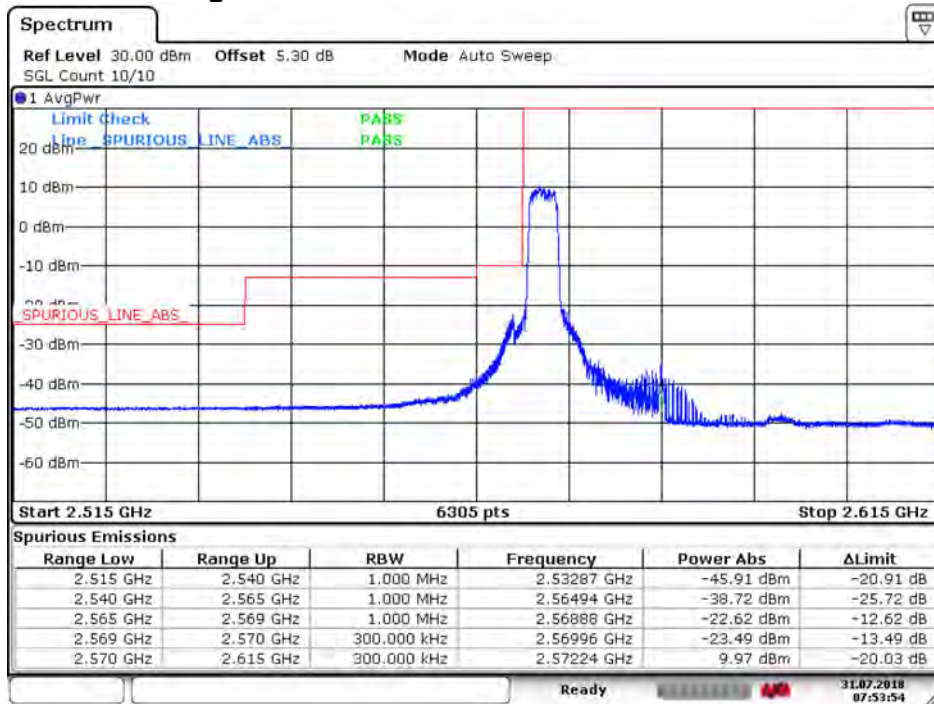
**5.1.1.2.1 Test Channel = 37825-37975**

**5.1.1.2.1.1 RB Configuration =1RB#0-0RB#0**



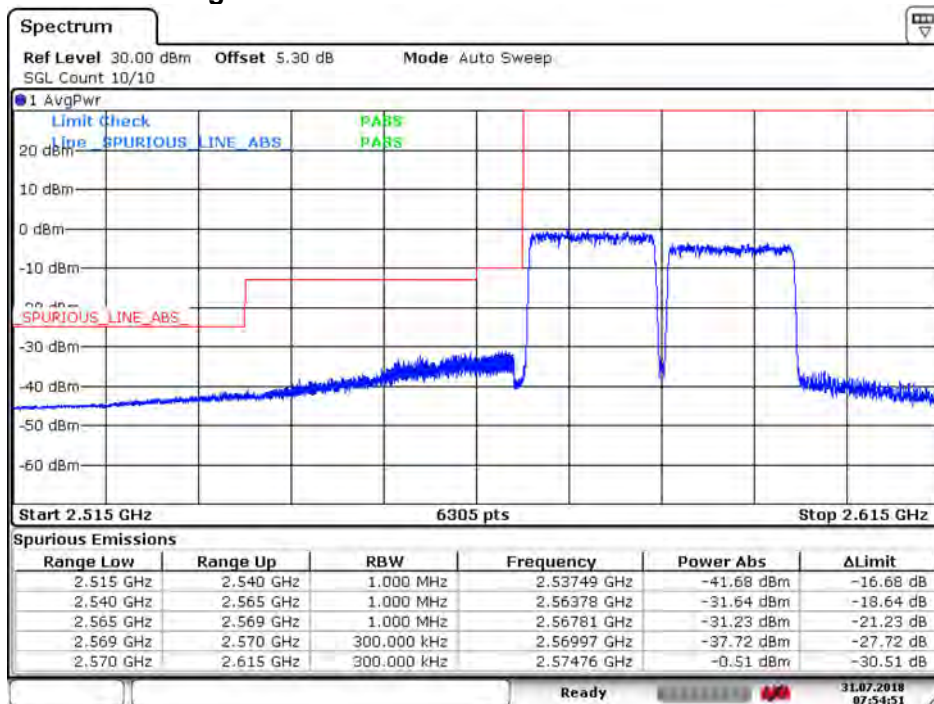
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**5.1.1.2.1.2 RB Configuration =16RB#0-0RB#0**



Date: 31.JUL.2018 07:53:54

**5.1.1.2.1.3 RB Configuration =75RB#0-75RB#0**



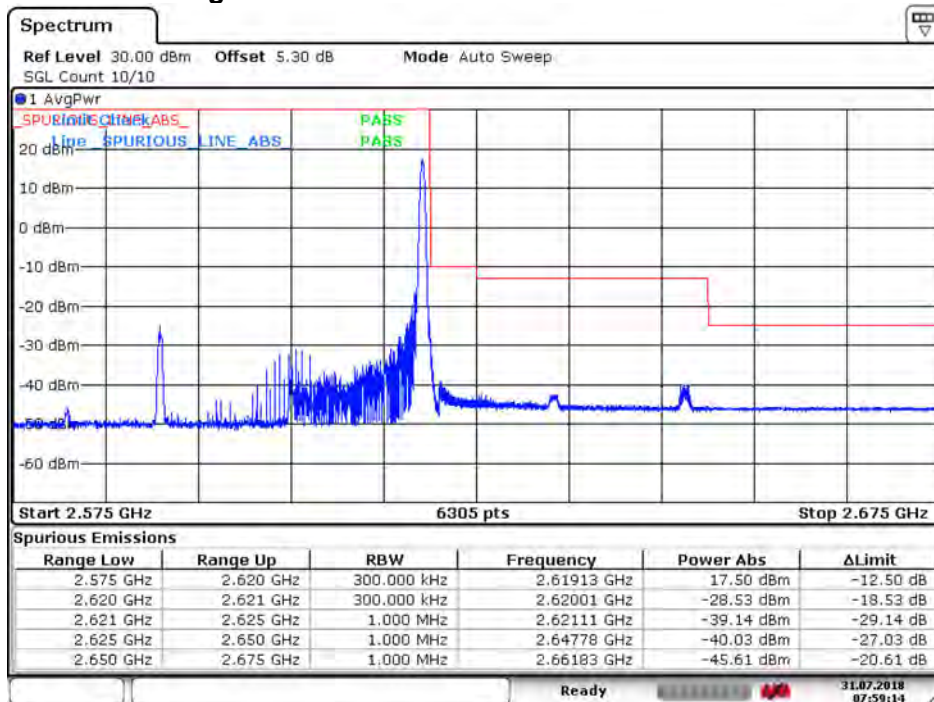
Date: 31.JUL.2018 07:54:51

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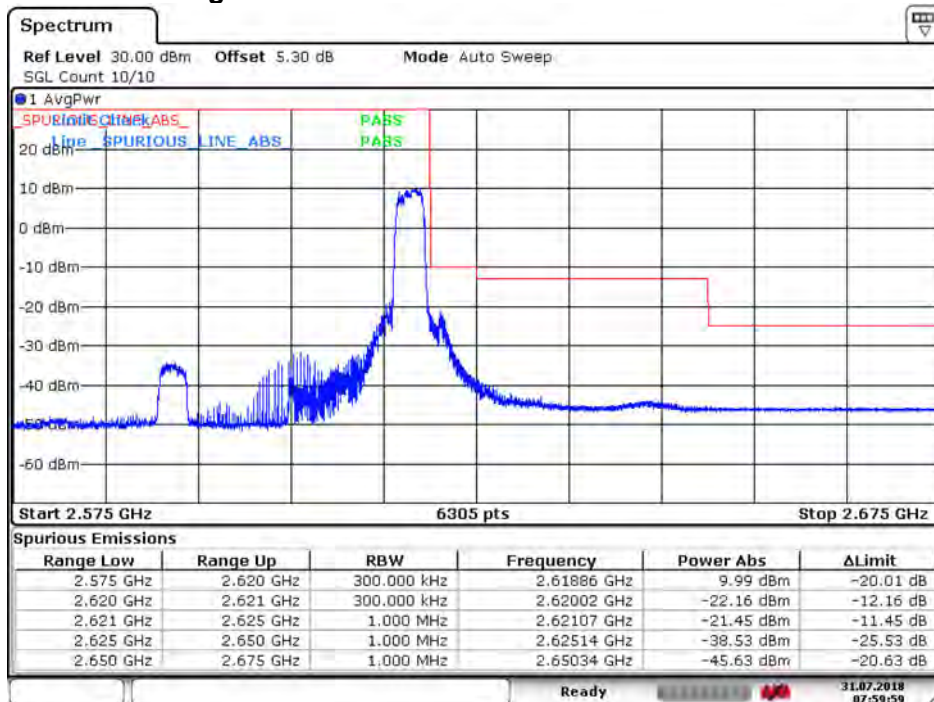
5.1.1.2.2 Test Channel = 38025-38175

5.1.1.2.2.1 RB Configuration =1RB#74-0RB#0



Date: 31 JUL 2018 07:59:14

5.1.1.2.2.2 RB Configuration =16RB#59-0RB#0

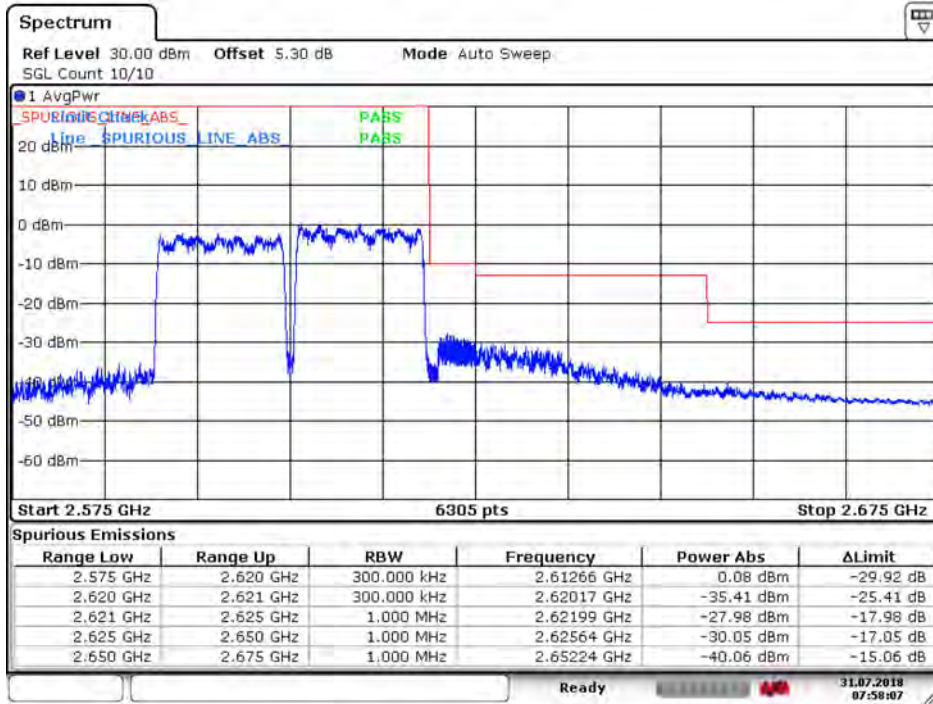


Date: 31 JUL 2018 08:00:00

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**5.1.1.2.3 RB Configuration =75RB#0-75RB#0**

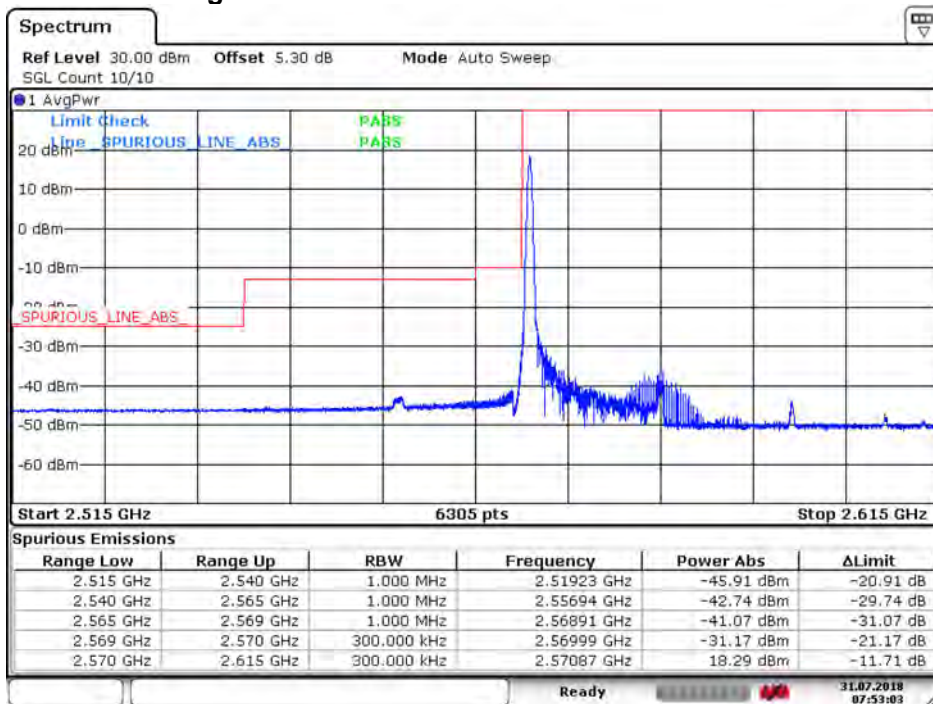


Date: 31 JUL 2018 07:58:07

**5.1.1.3 Test Mode = LTE/TM3**

**5.1.1.3.1 Test Channel = 37825-37975**

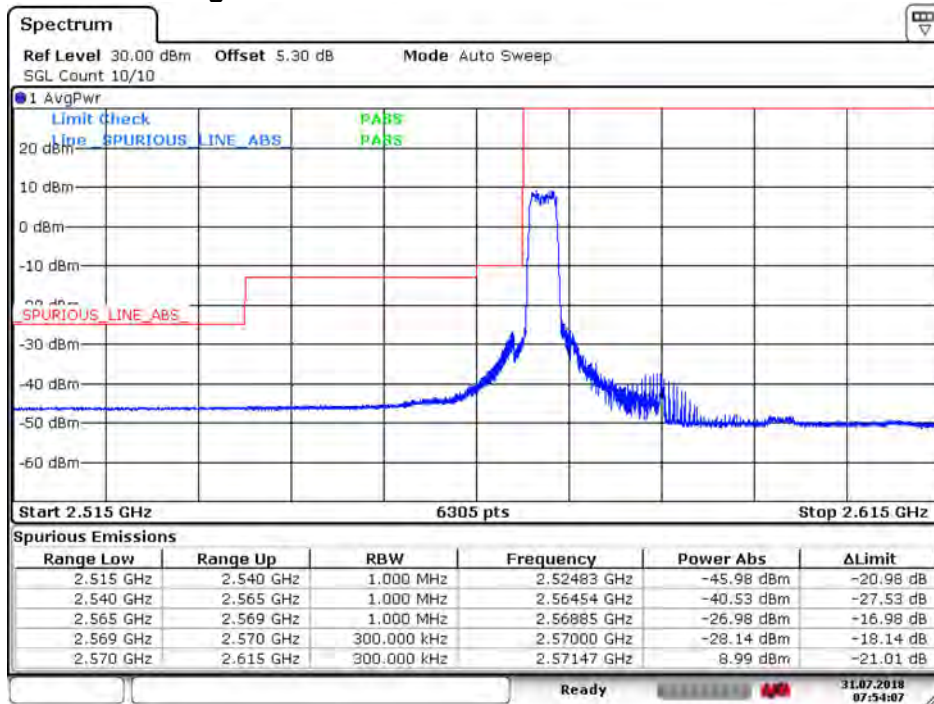
**5.1.1.3.1.1 RB Configuration =1RB#0-0RB#0**



Date: 31 JUL 2018 07:53:03

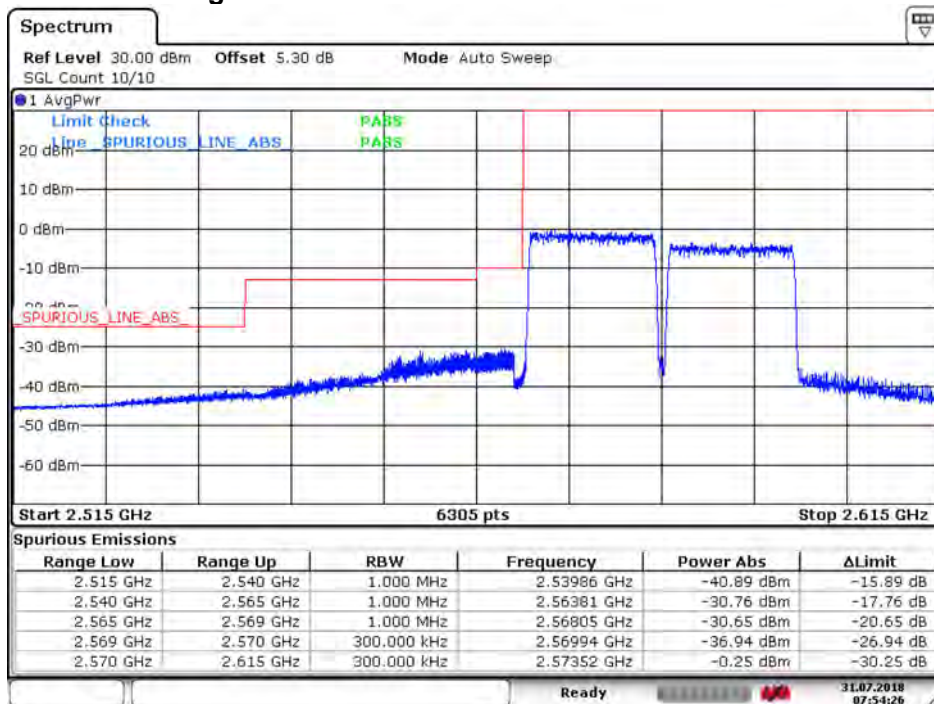
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**5.1.1.3.1.2 RB Configuration =16RB#0-0RB#0**



Date: 31 JUL 2018 07:54:07

**5.1.1.3.1.3 RB Configuration =75RB#0-75RB#0**

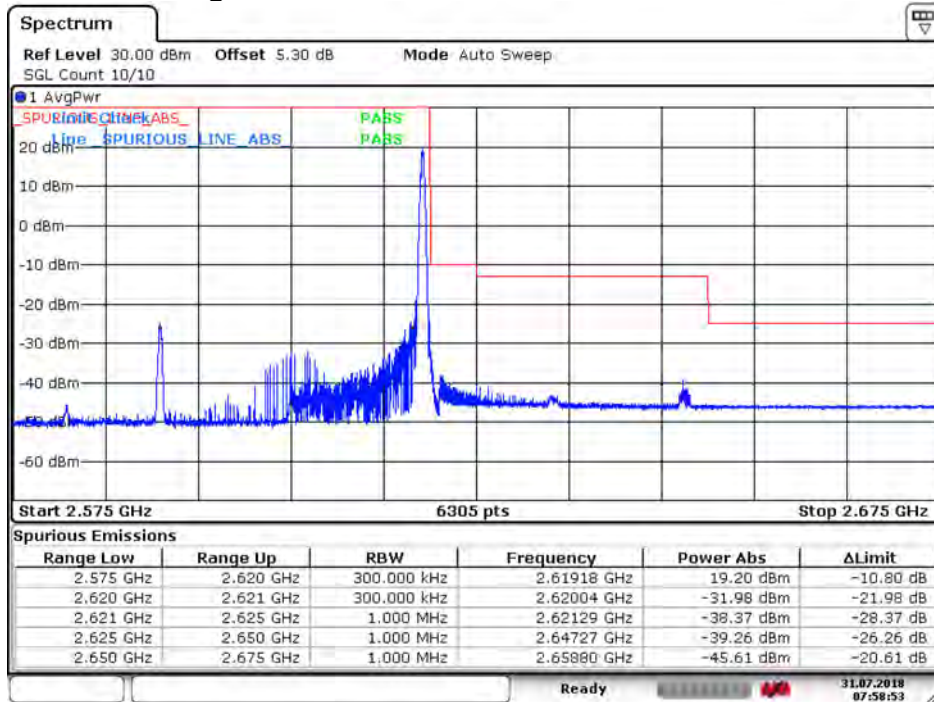


Date: 31 JUL 2018 07:54:26

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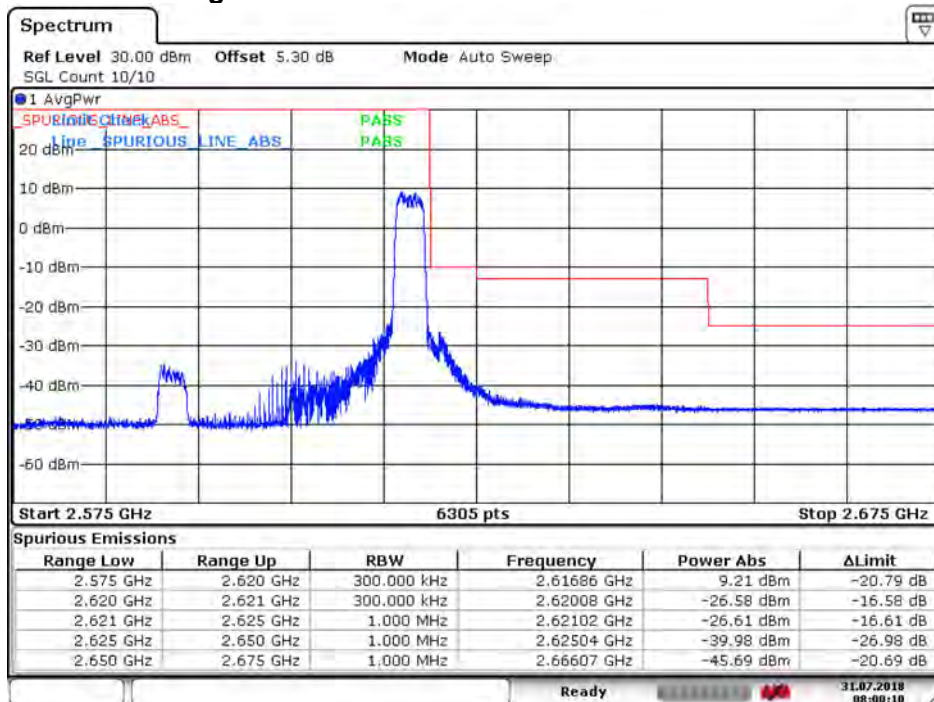
5.1.1.3.2 Test Channel = 38025-38175

5.1.1.3.2.1 RB Configuration =1RB#74-0RB#0



Date: 31 JUL 2018 07:58:54

5.1.1.3.2.2 RB Configuration =16RB#59-0RB#0

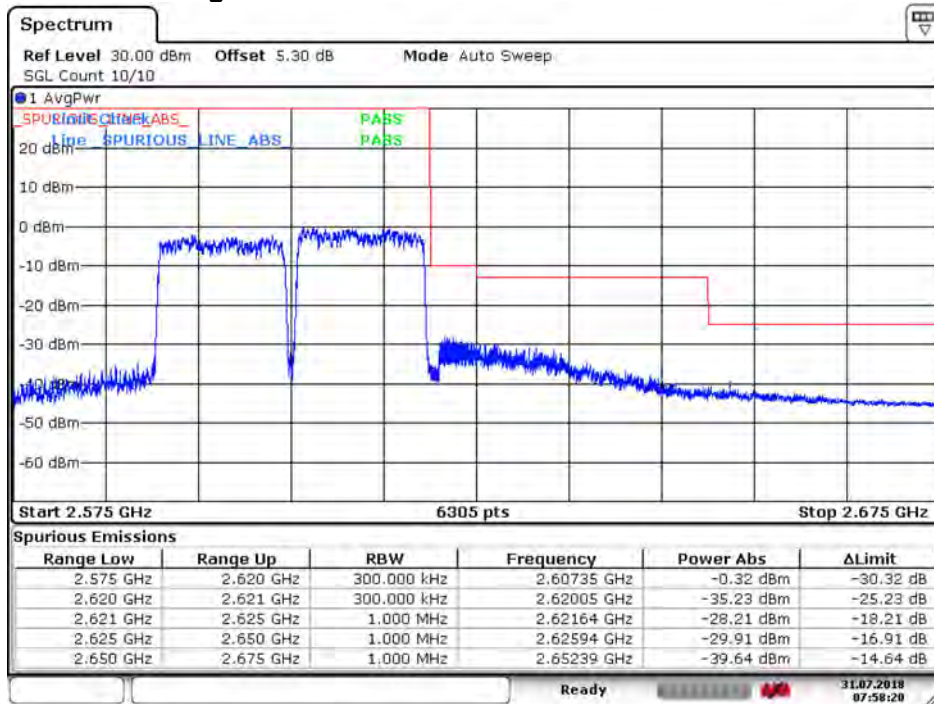


Date: 31 JUL 2018 08:00:10

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**5.1.1.3.2.3 RB Configuration =75RB#0-75RB#0**



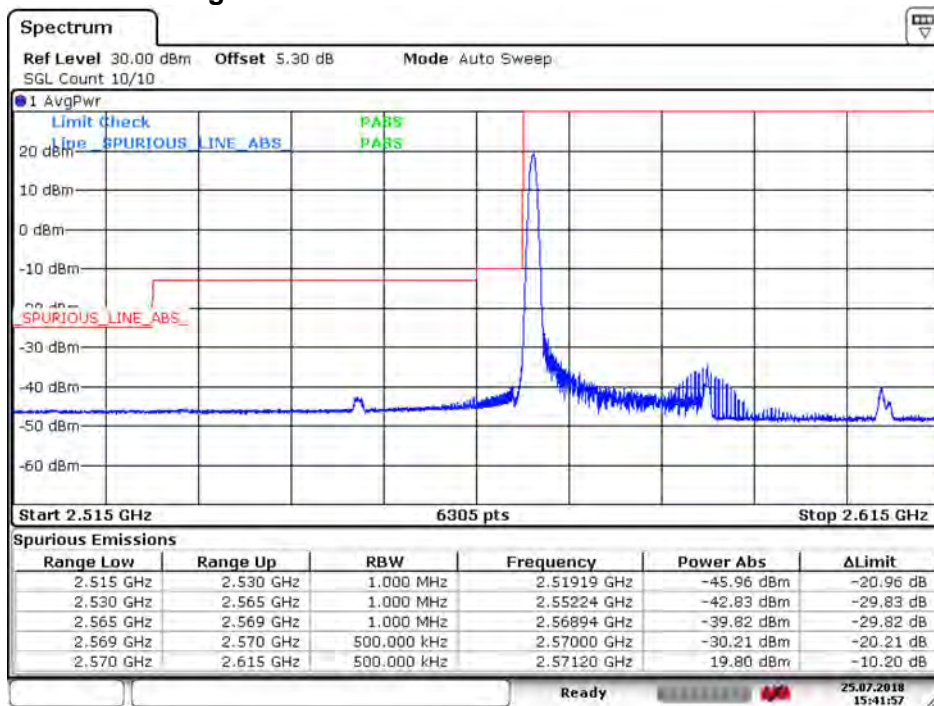
Date: 31 JUL 2018 07:58:20

**5.1.2 Test Band = Bandwidth=100RB+100RB**

**5.1.2.1 Test Mode = LTE/TM1**

**5.1.2.1.1 Test Channel = 37850-38048**

**5.1.2.1.1.1 RB Configuration =1RB#0-0RB#0**

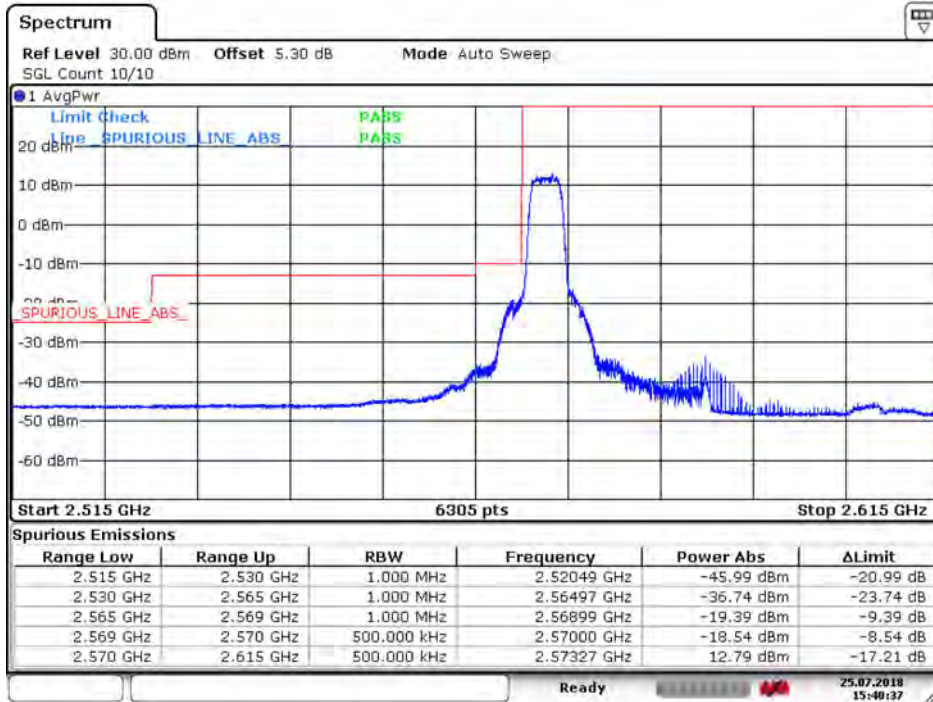


Date: 25 JUL 2018 15:41:57

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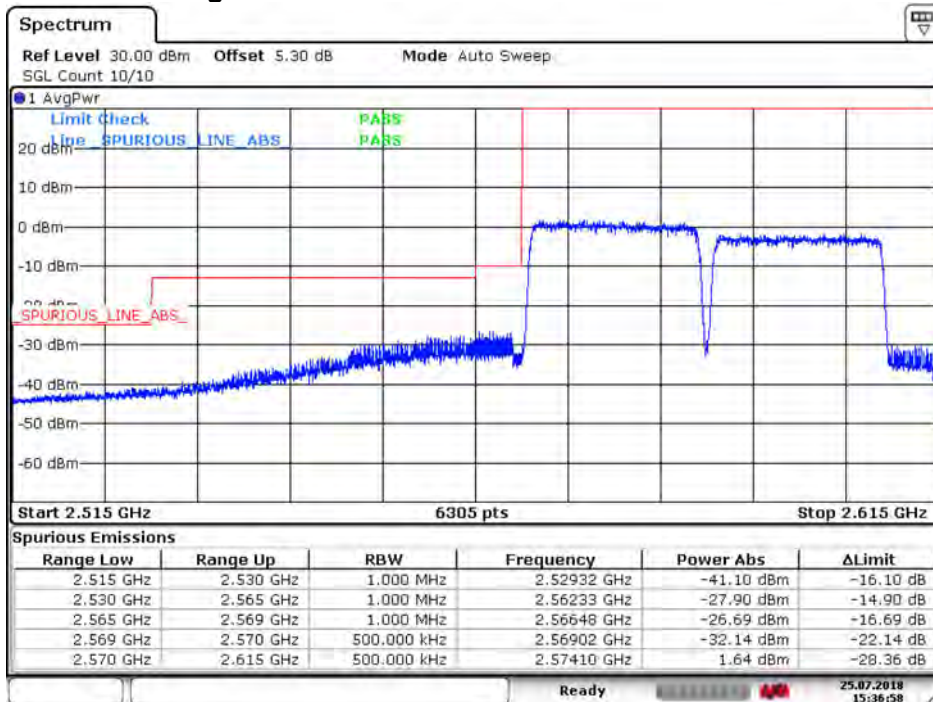


**5.1.2.1.1.2 RB Configuration =18RB#0-0RB#0**



Date: 25 JUL 2018 15:40:37

**5.1.2.1.1.3 RB Configuration =100RB#0-100RB#0**

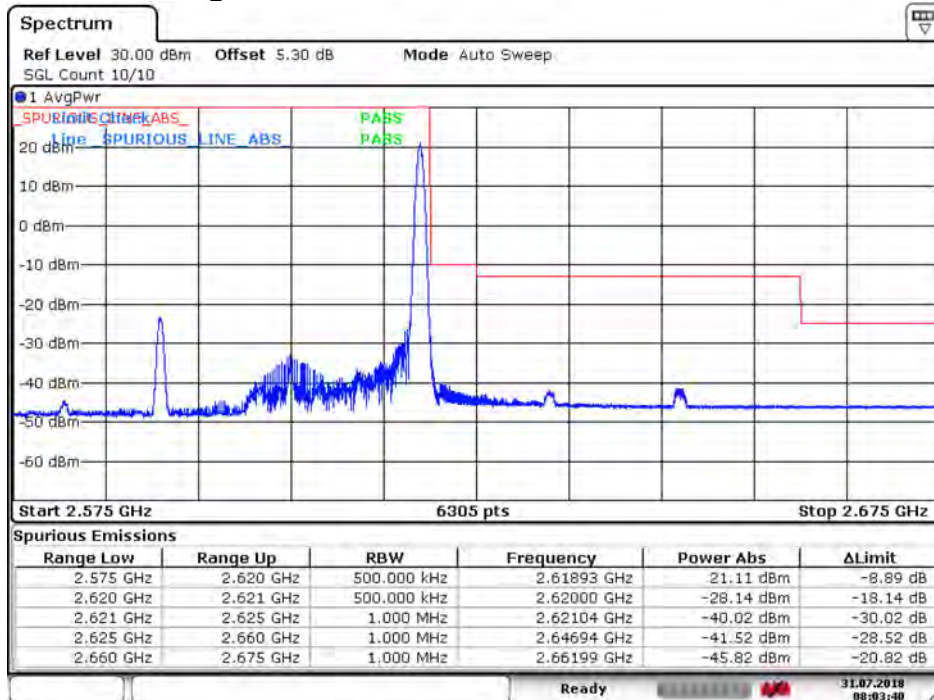


Date: 25 JUL 2018 15:36:58

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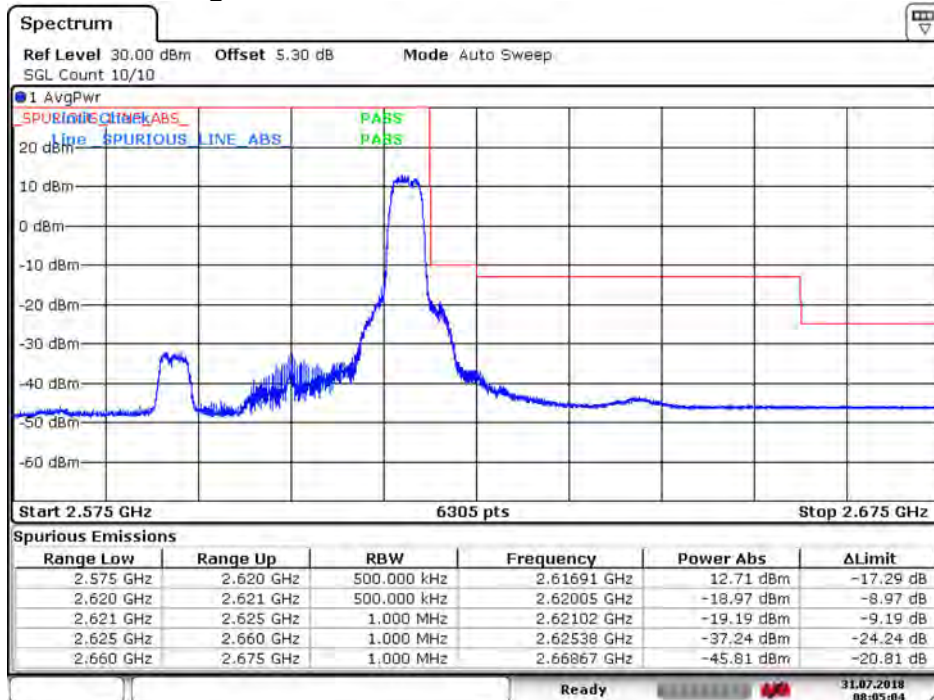
**5.1.2.1.2 Test Channel = 37952-38150**

**5.1.2.1.2.1 RB Configuration =1RB#0-0RB#0**



Date: 31 JUL 2018 08:03:40

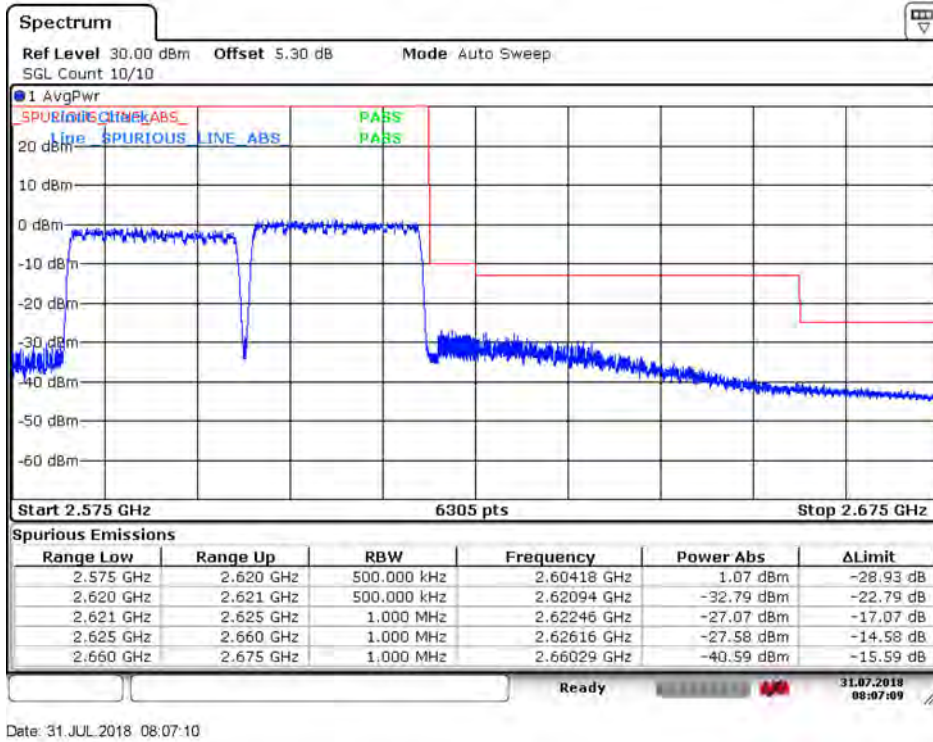
**5.1.2.1.2.2 RB Configuration =18RB#82-0RB#0**



Date: 31 JUL 2018 08:05:04

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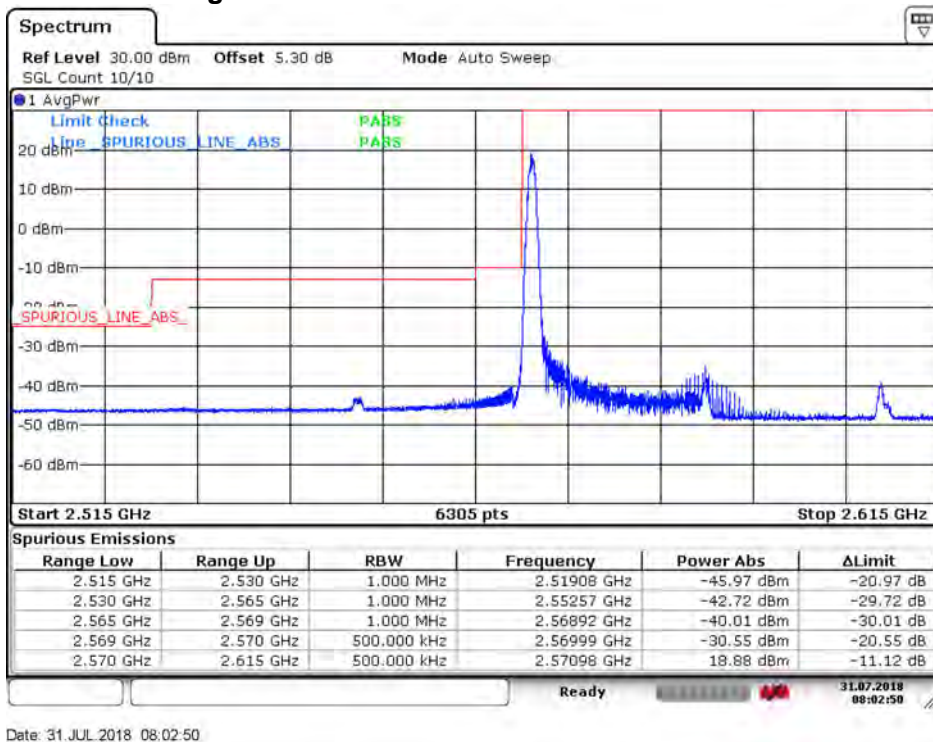
**5.1.2.1.2.3 RB Configuration =100RB#0-100RB#0**



**5.1.2.2 Test Mode = LTE/TM2**

**5.1.2.2.1 Test Channel = 37850-38048**

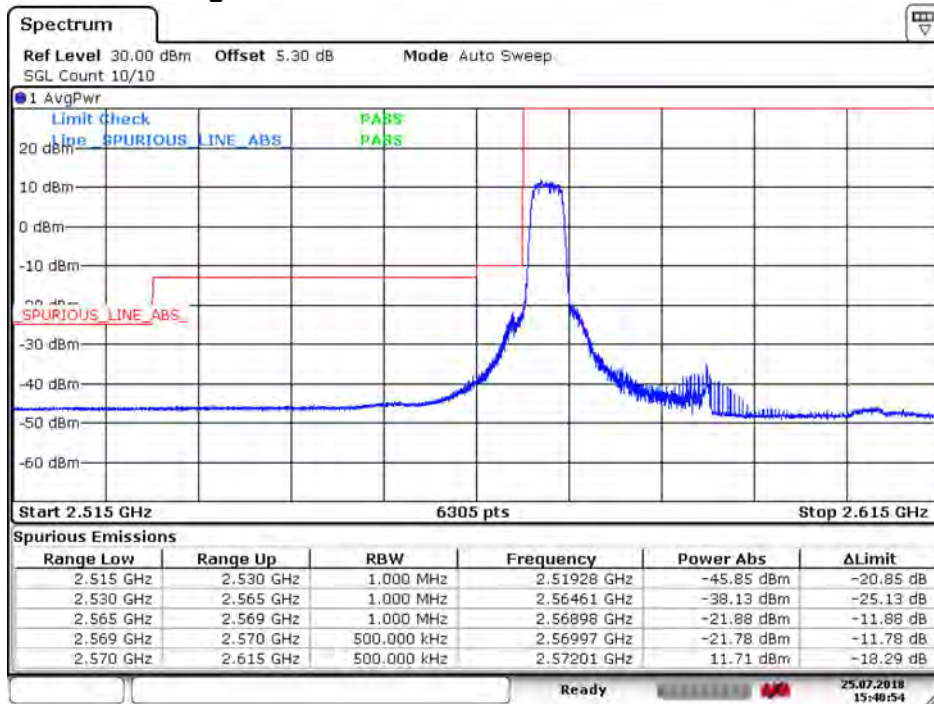
**5.1.2.2.1.1 RB Configuration =1RB#0-0RB#0**



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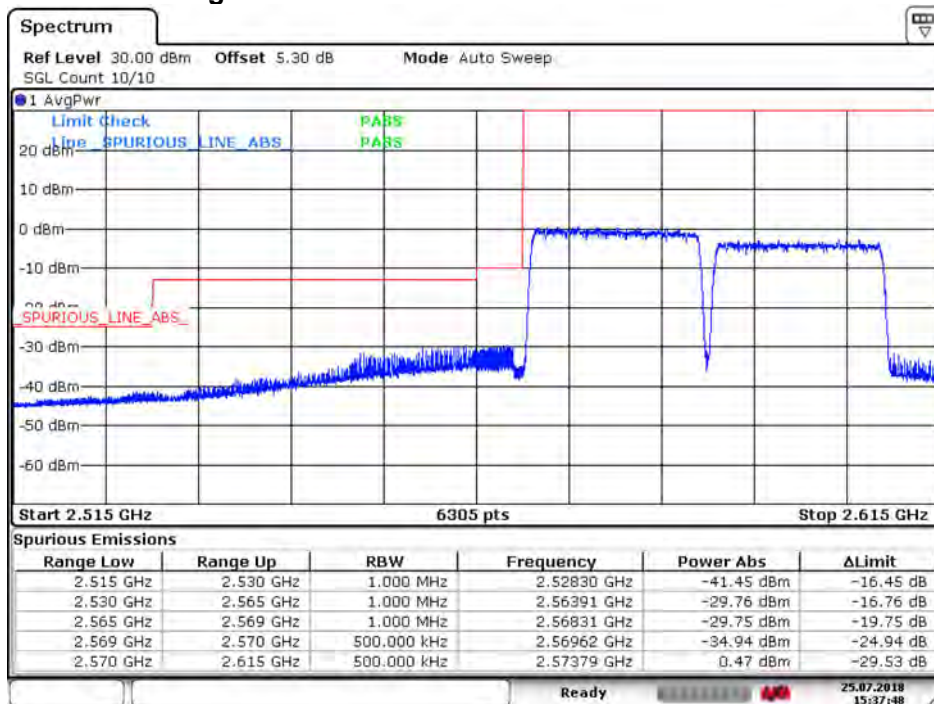


**5.1.2.2.1.2 RB Configuration =18RB#0-0RB#0**



Date: 25 JUL 2018 15:40:54

**5.1.2.2.1.3 RB Configuration =100RB#0-100RB#0**



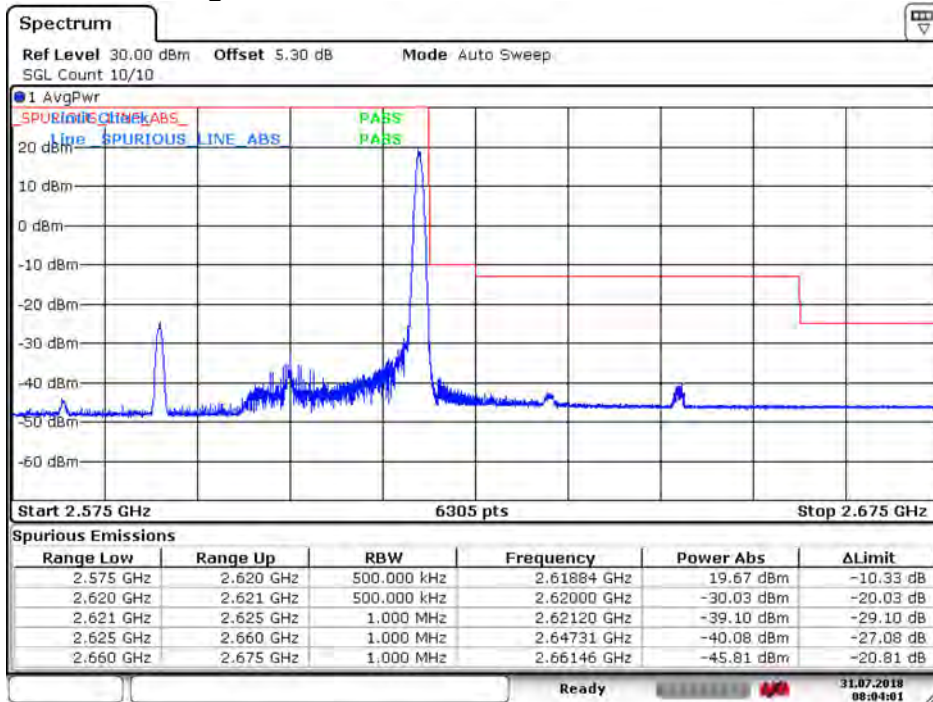
Date: 25 JUL 2018 15:37:49

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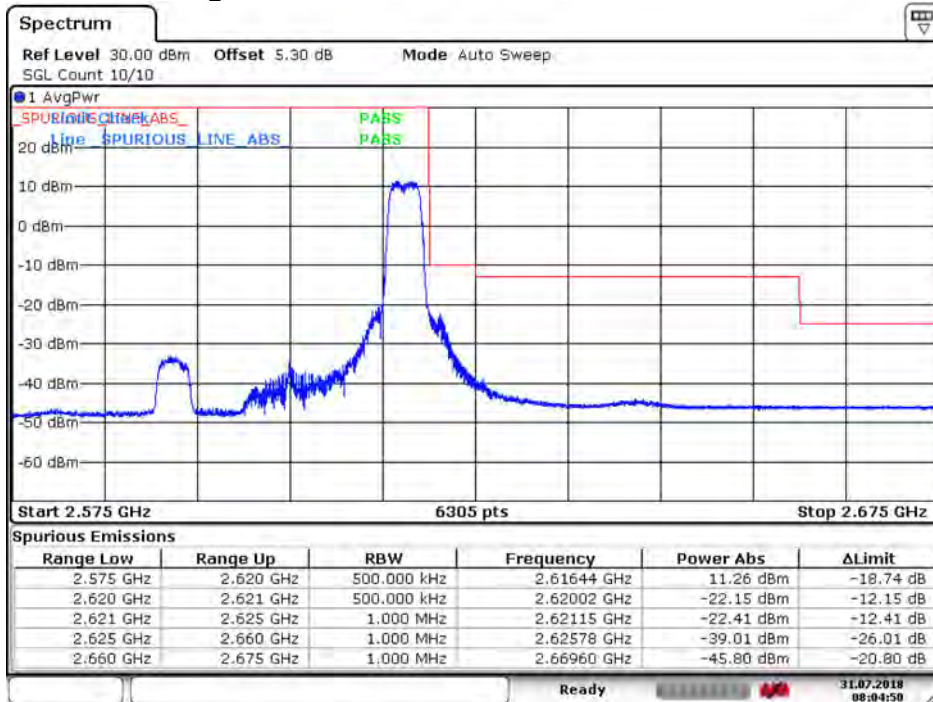
5.1.2.2.2 Test Channel = 37952-38150

5.1.2.2.2.1 RB Configuration =1RB#0-0RB#0



Date: 31 JUL 2018 08:04:01

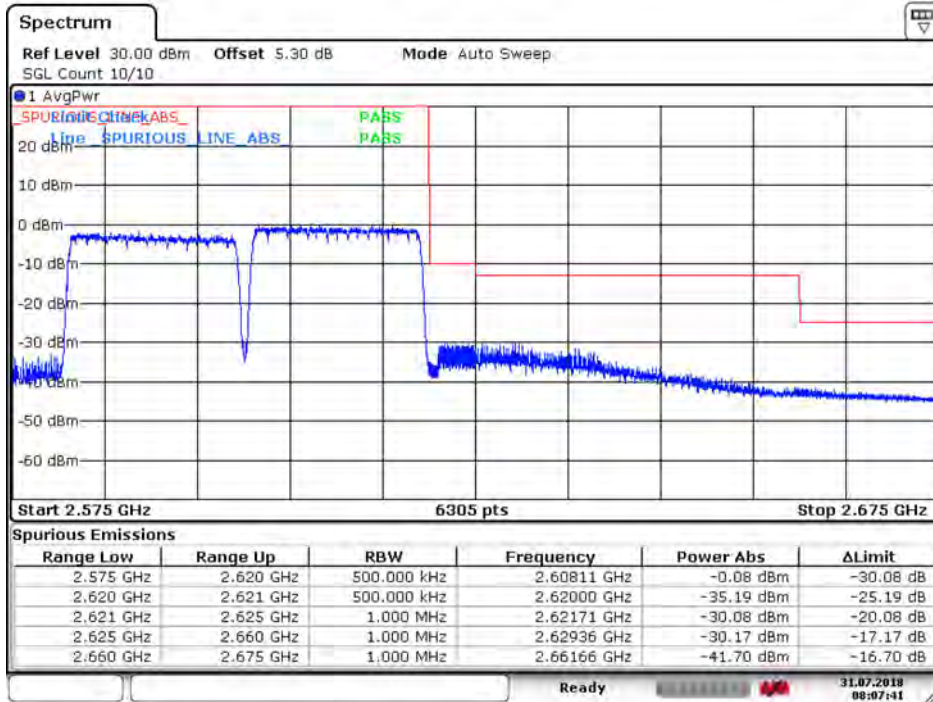
5.1.2.2.2.2 RB Configuration =18RB#82-0RB#0



Date: 31 JUL 2018 08:04:51

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**5.1.2.2.3 RB Configuration =100RB#0-100RB#0**

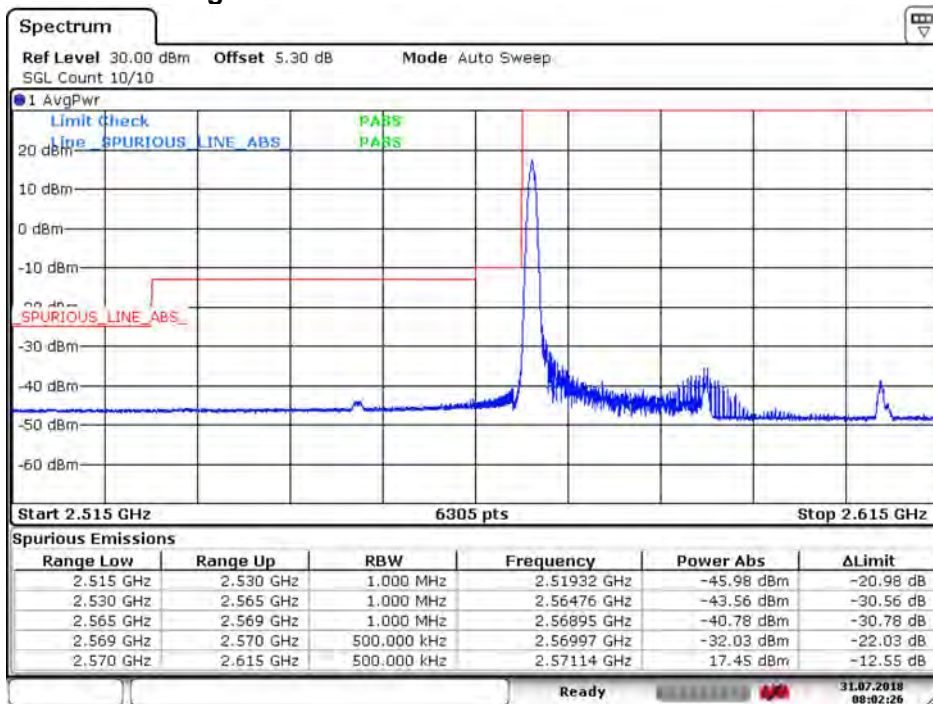


Date: 31 JUL 2018 08:07:41

**5.1.2.3 Test Mode = LTE/TM3**

**5.1.2.3.1 Test Channel = 37850-38048**

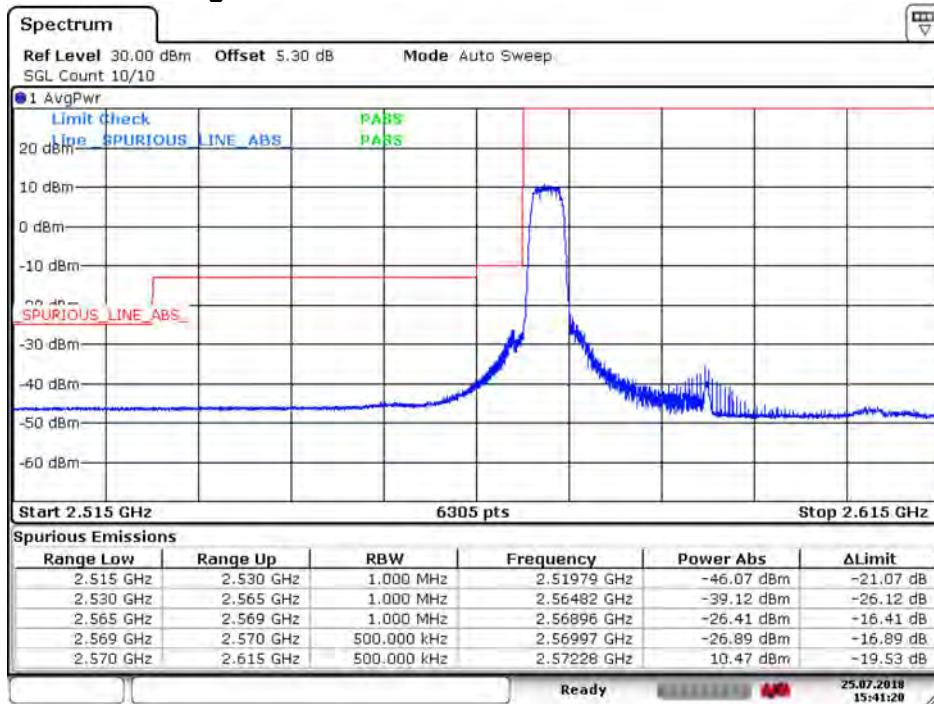
**5.1.2.3.1.1 RB Configuration =1RB#0-0RB#0**



Date: 31 JUL 2018 08:02:27

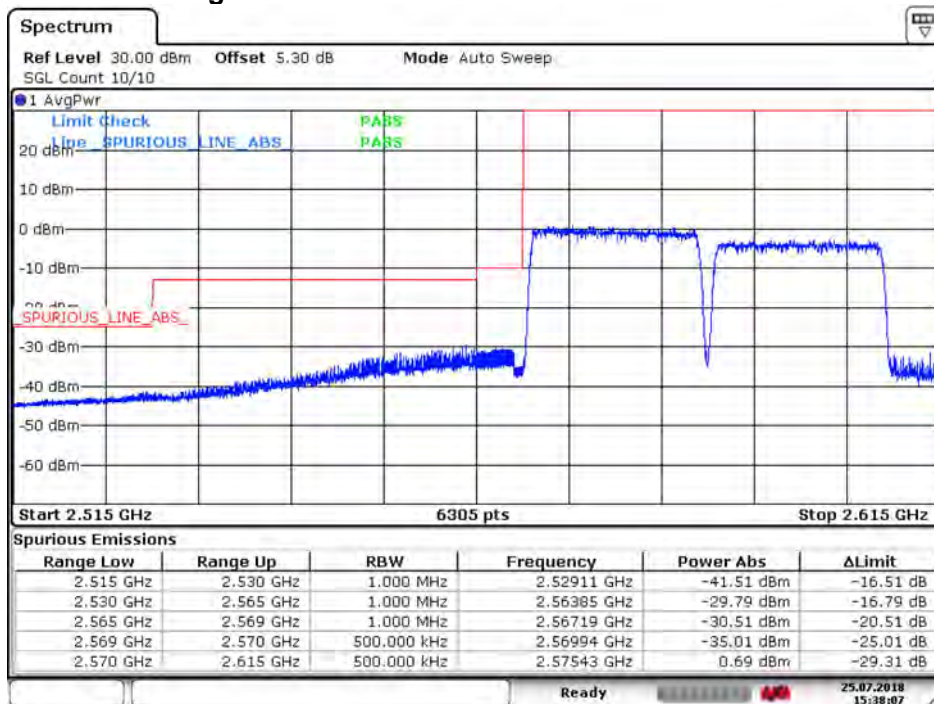
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**5.1.2.3.1.2 RB Configuration =18RB#0-0RB#0**



Date: 25 JUL 2018 15:41:21

**5.1.2.3.1.3 RB Configuration =100RB#0-100RB#0**



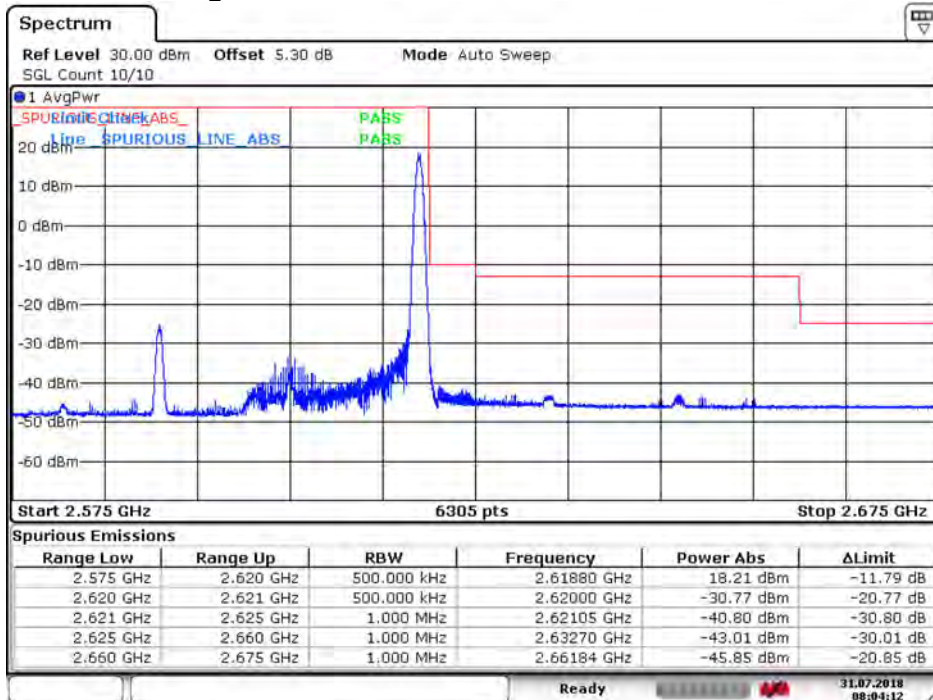
Date: 25 JUL 2018 15:38:07

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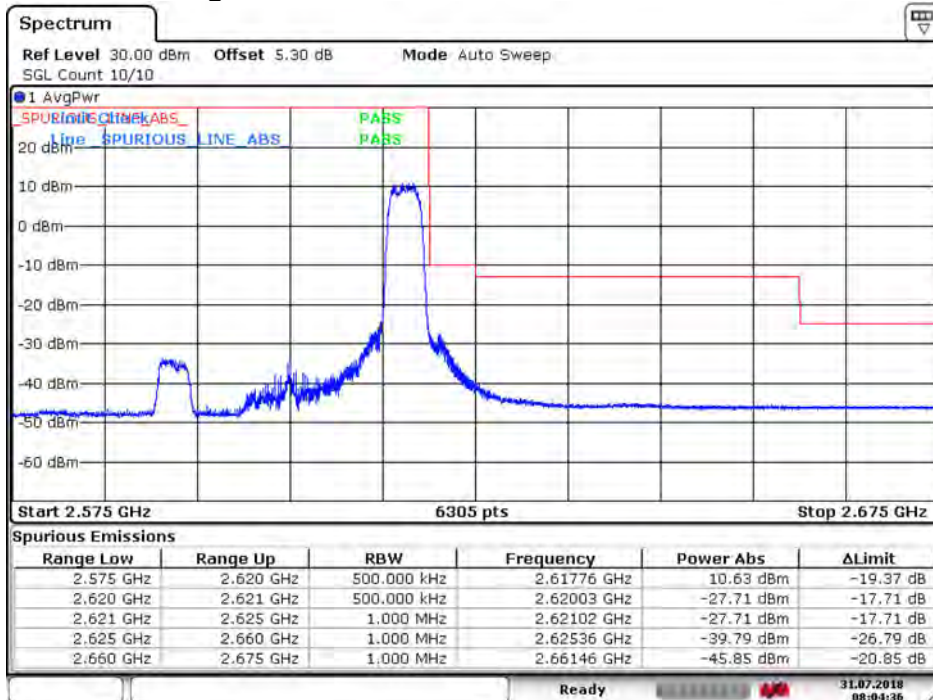
**5.1.2.3.2 Test Channel = 37952-38150**

**5.1.2.3.2.1 RB Configuration =1RB#0-0RB#0**



Date: 31 JUL 2018 08:04:12

**5.1.2.3.2.2 RB Configuration =18RB#82-0RB#0**

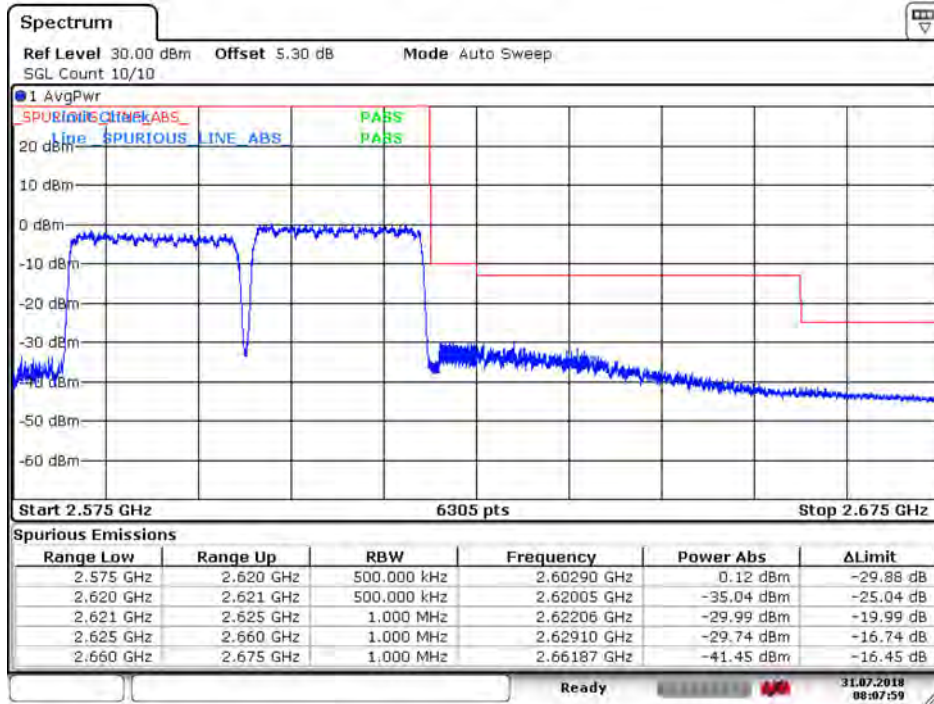


Date: 31 JUL 2018 08:04:36

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5.1.2.3.2.3 RB Configuration =100RB#0-100RB#0



Date: 31.JUL.2018 08:07:59



## 6 Spurious Emission at Antenna Terminal

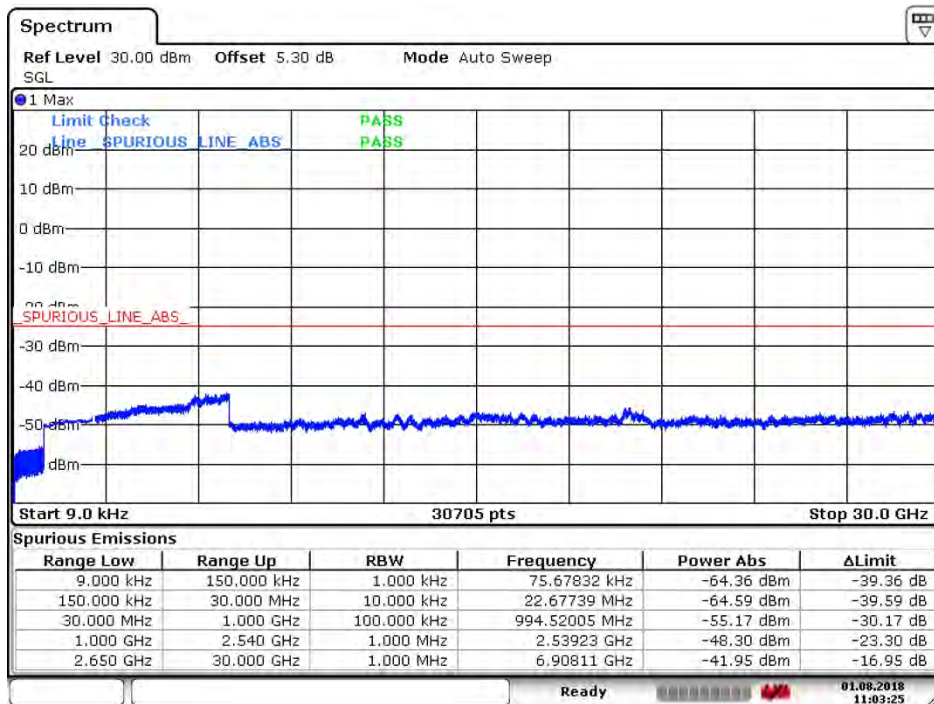
NOTE1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of  $< RBW/2$  so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =  $k * (Span / RBW)$ " 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 For LTE\_CA\_38C

#### 6.1.1 Test Band = Bandwidth=75RB+75RB

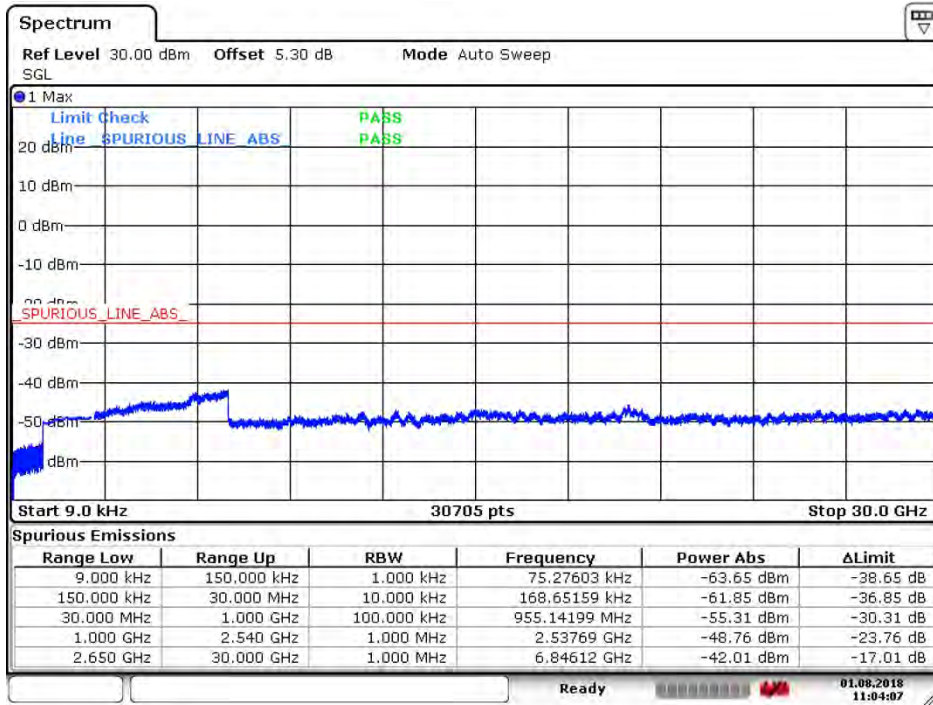
##### 6.1.1.1 Test Channel = 37825-37975



Date: 1.AUG.2018 11:03:25

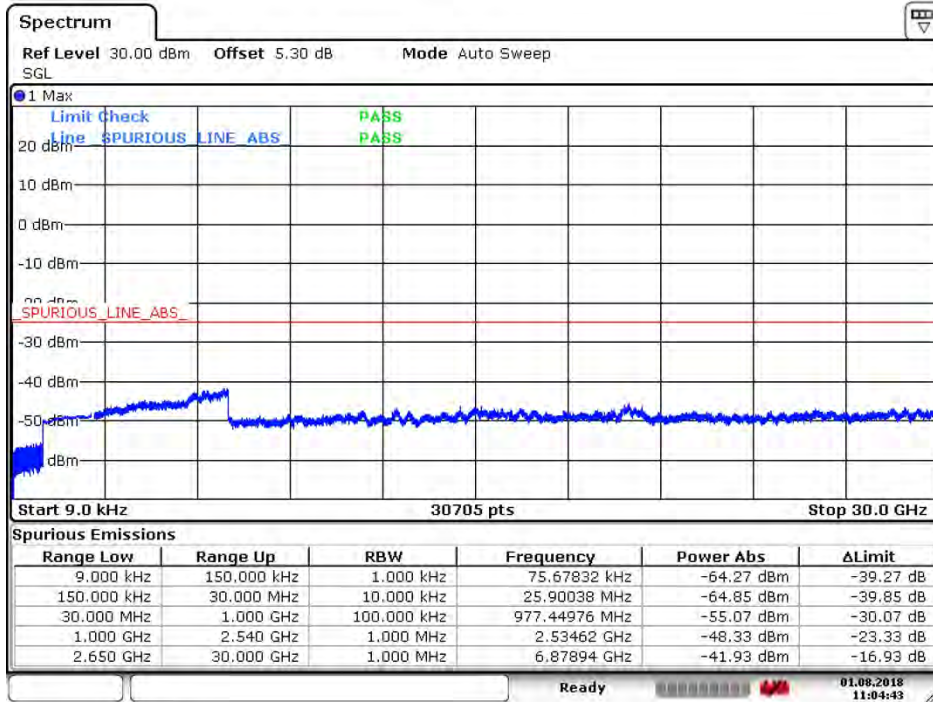


**6.1.1.2 Test Channel = 37925-38075**



Date: 1.AUG.2018 11:04:07

**6.1.1.3 Test Channel = 38025-38175**

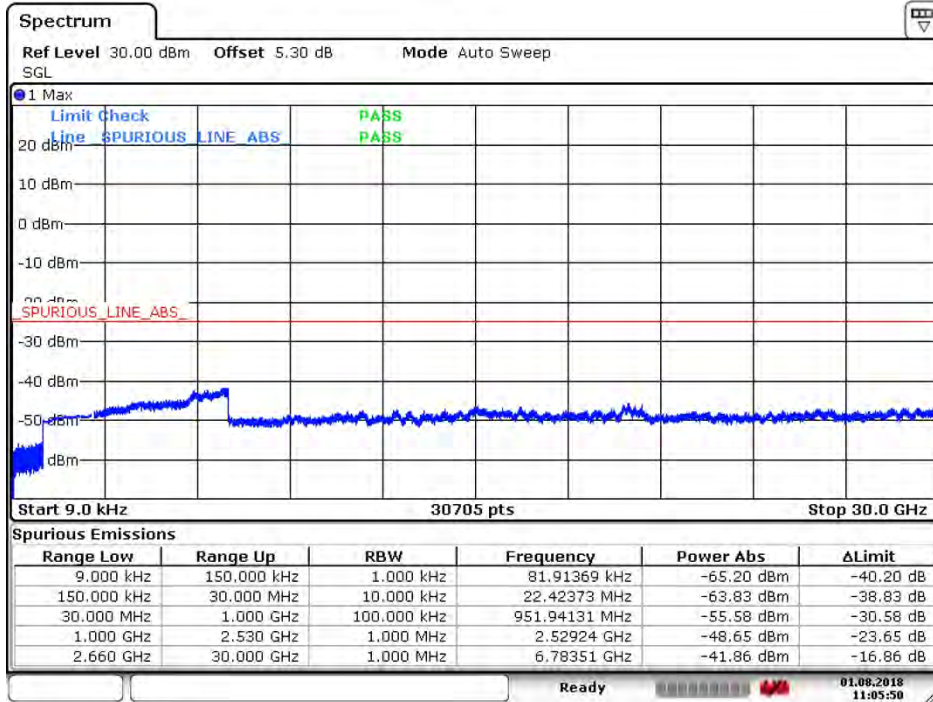


Date: 1.AUG.2018 11:04:43



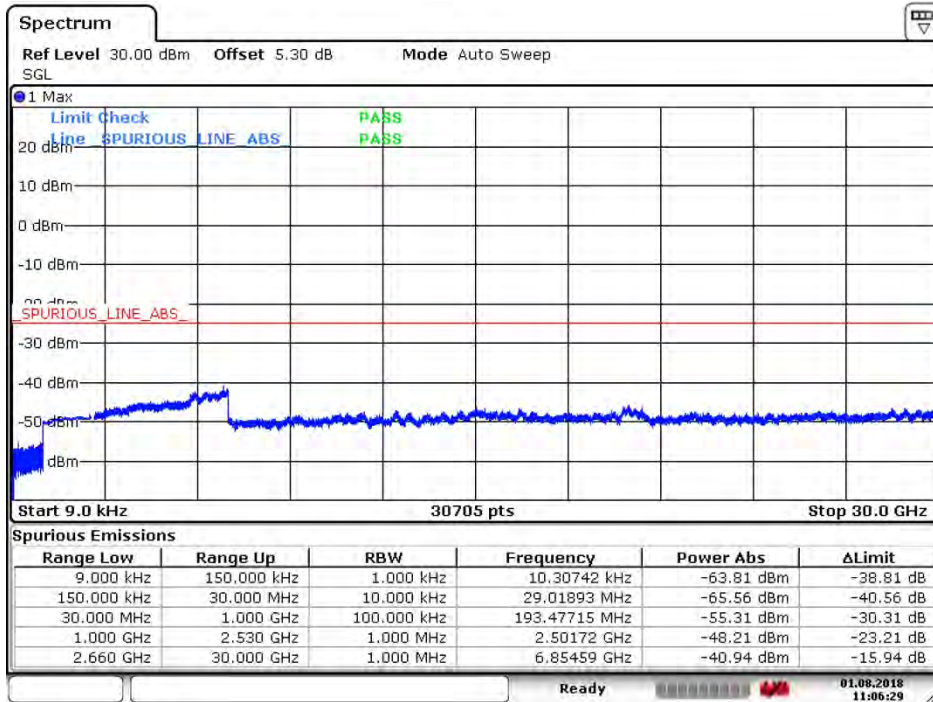
6.1.2 Test Band = Bandwidth=100RB+100RB

6.1.2.1 Test Channel = 37850-38048



Date: 1.AUG.2018 11:05:51

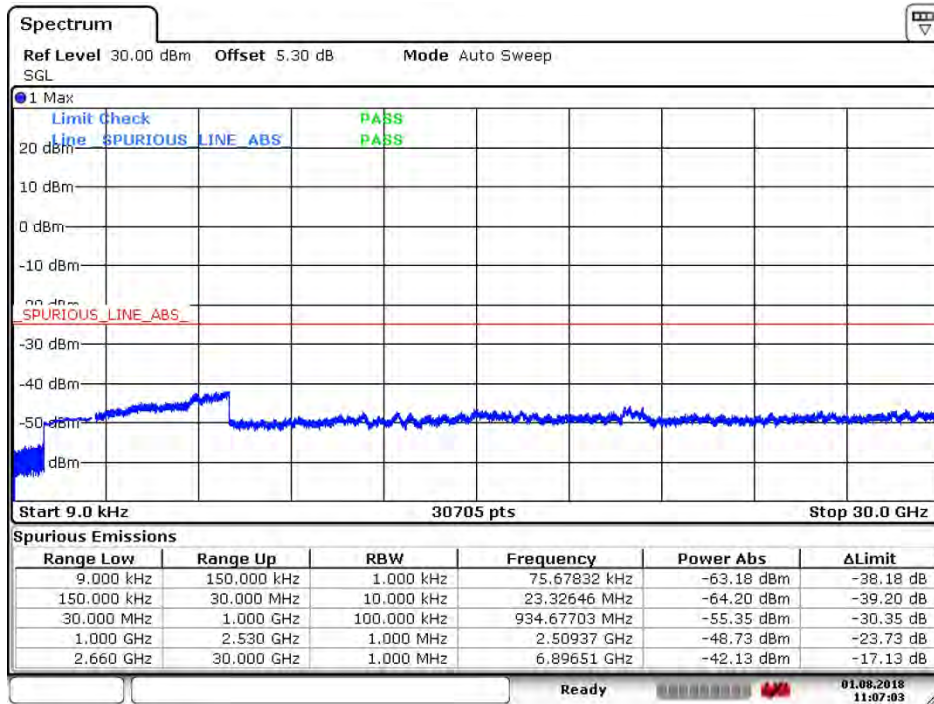
6.1.2.2 Test Channel = 37901-38099



Date: 1.AUG.2018 11:06:29



6.1.2.3 Test Channel = 37952-38150



Date: 1.AUG.2018 11:07:03



## 7 Field Strength of Spurious Radiation

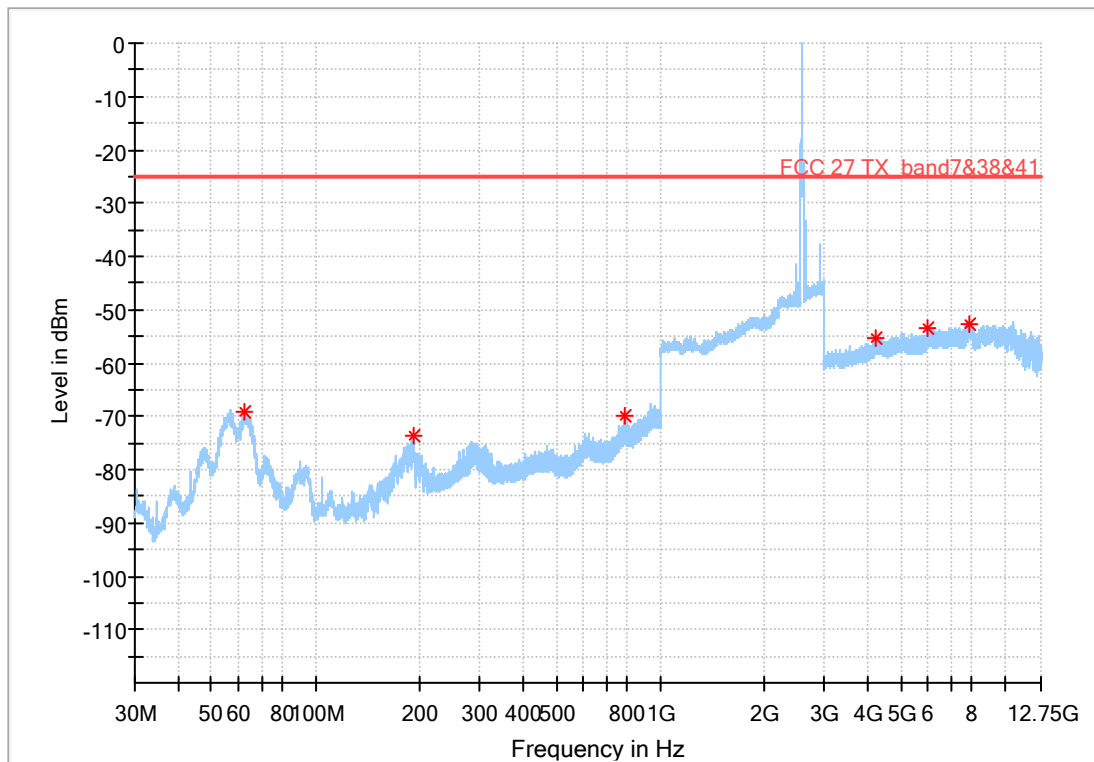
### 7.1 For LTE

#### 7.1.1 Test Band = LTE Band CA\_38C\_Main Antenna

##### 7.1.1.1 Test Mode =LTE/TM1 100RB+100RB

##### 7.1.1.1.1 Test Channel = 37850-38048\_H

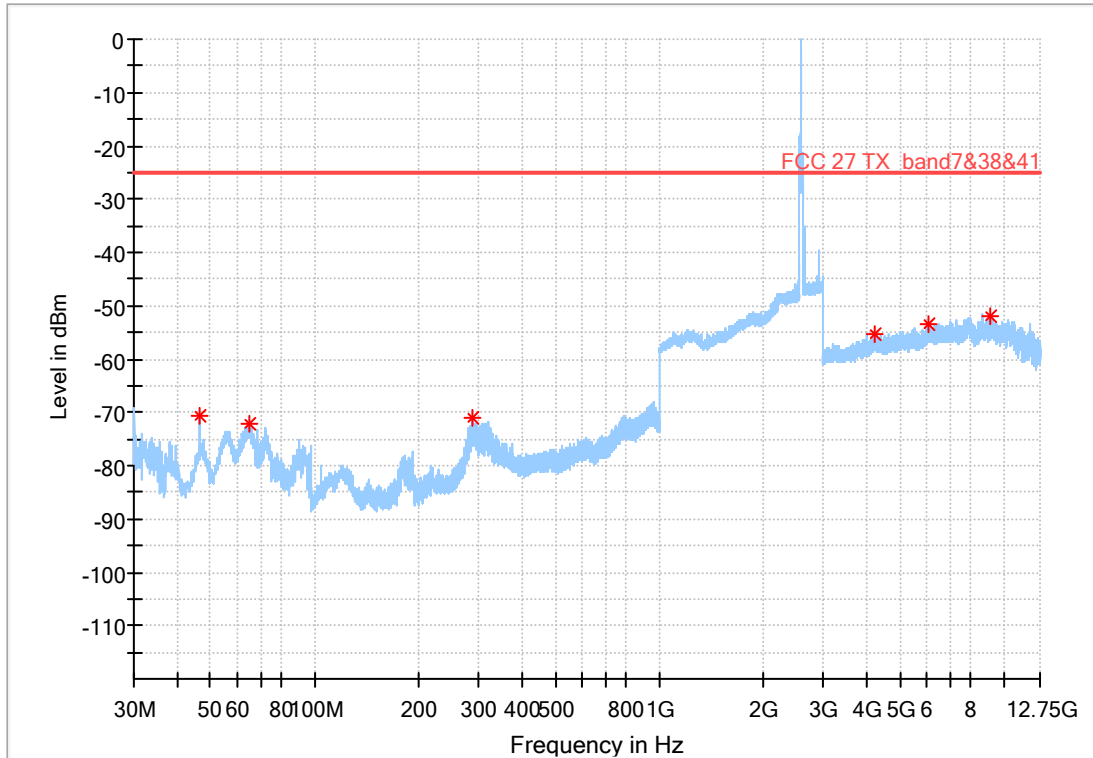
Full Spectrum





7.1.1.1.2 Test Channel = 37850-38048\_V

Full Spectrum

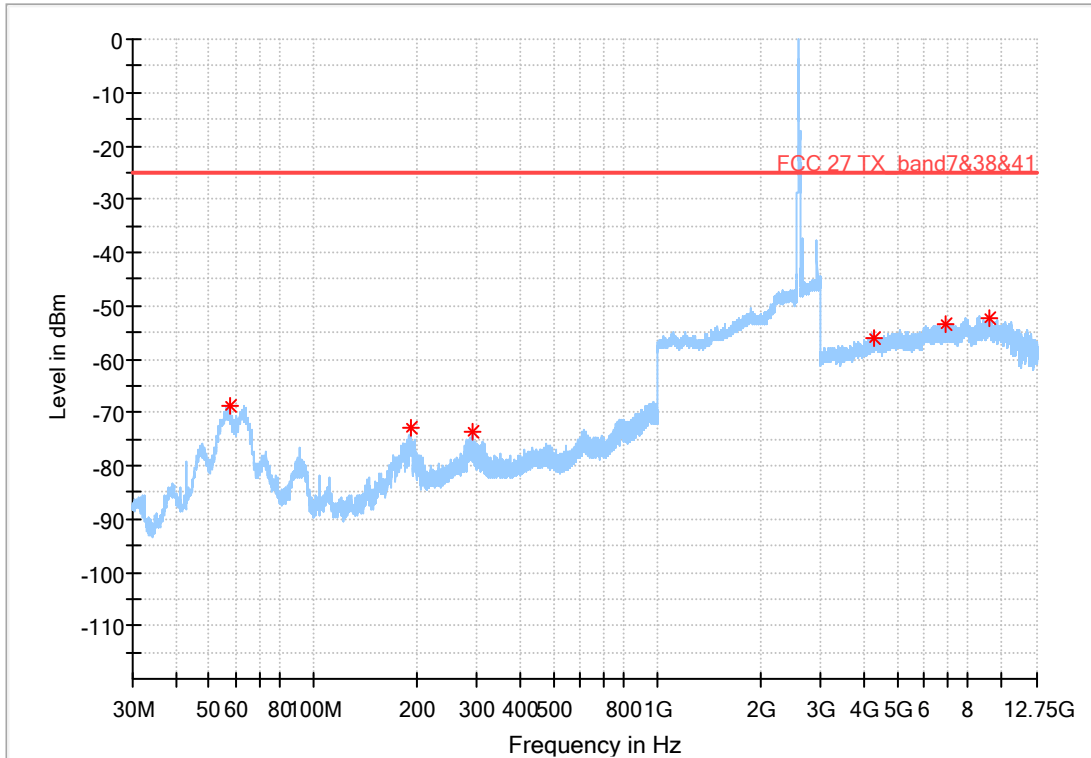


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7.1.1.1.3 Test Channel = 37901-38099\_H

Full Spectrum



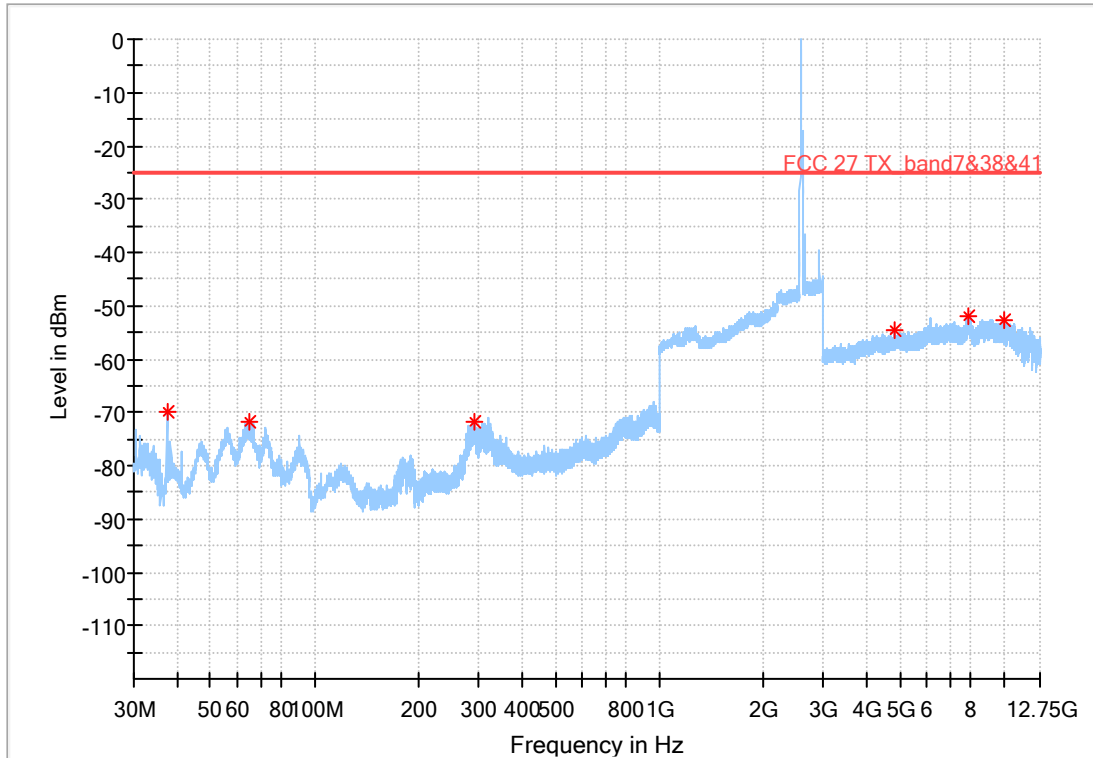
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7.1.1.1.4 Test Channel = 37901-38099\_V

Full Spectrum

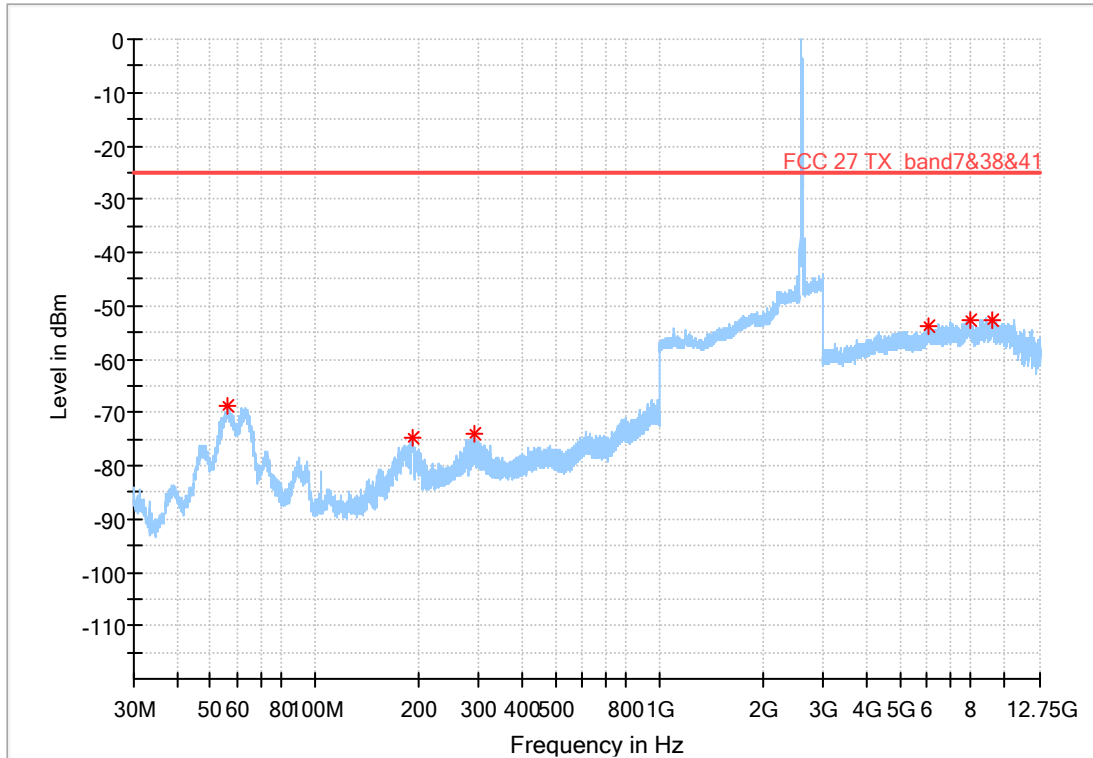


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7.1.1.1.5 Test Channel = 37952-38150\_H

Full Spectrum

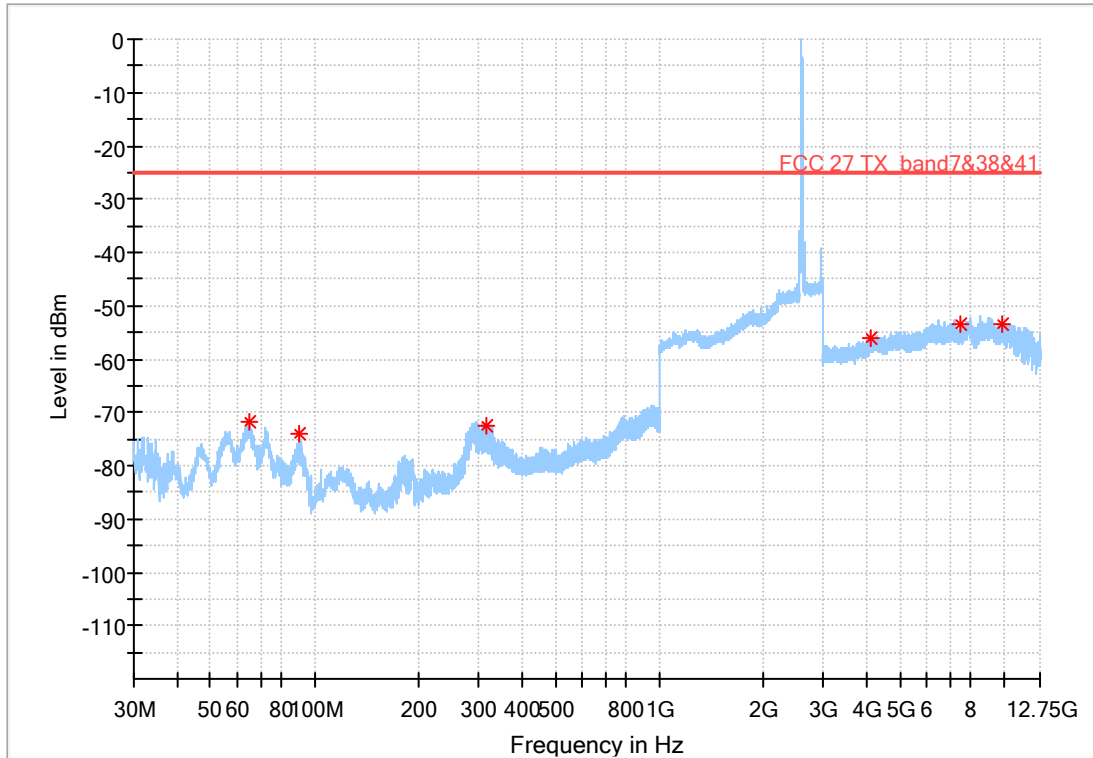


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7.1.1.1.1 Test Channel = 37952-38150\_V

Full Spectrum



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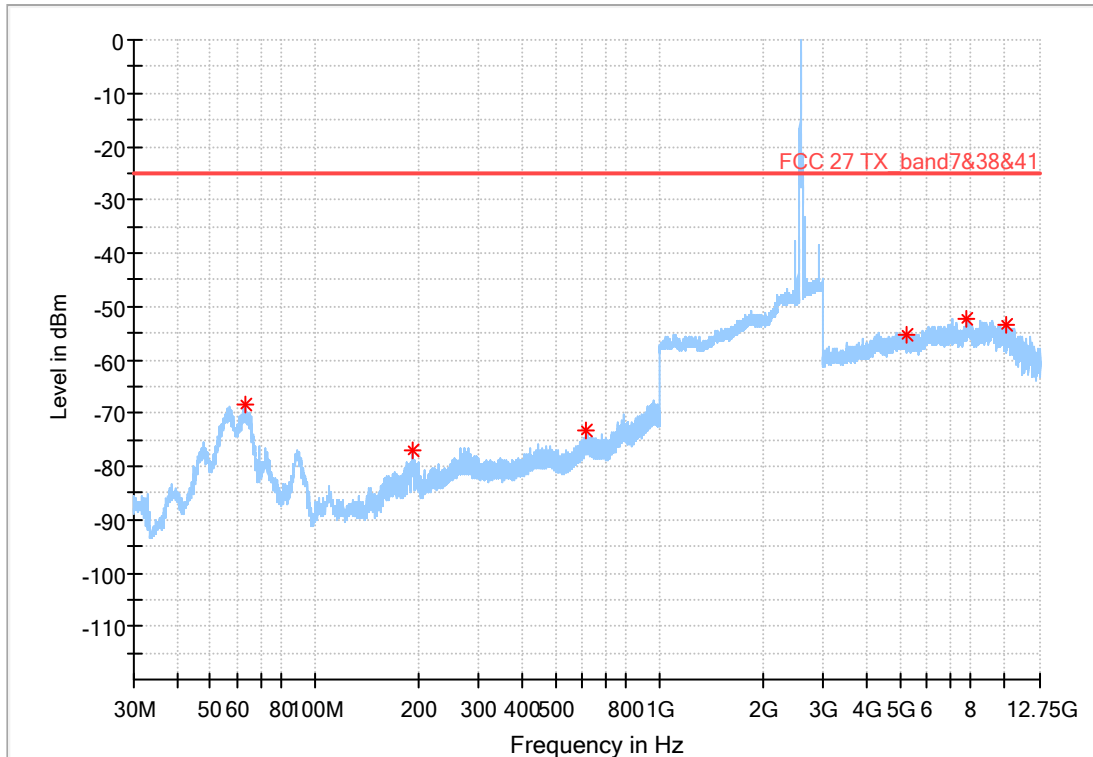


### 7.1.2 Test Band = LTE Band CA\_38C\_Secondary Antenna

#### 7.1.2.1 Test Mode =LTE/TM1 100RB+100RB

##### 7.1.2.1.1 Test Channel = 37850-38048\_H

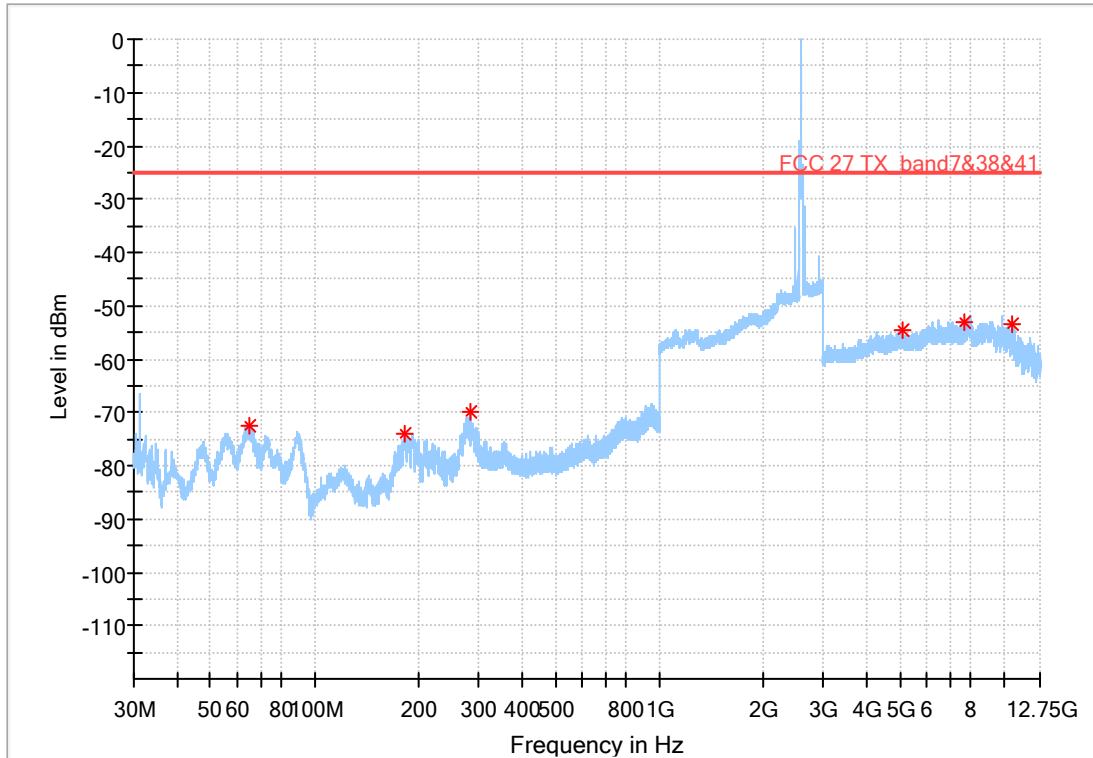
Full Spectrum





7.1.2.1.2 Test Channel = 37850-38048\_V

Full Spectrum

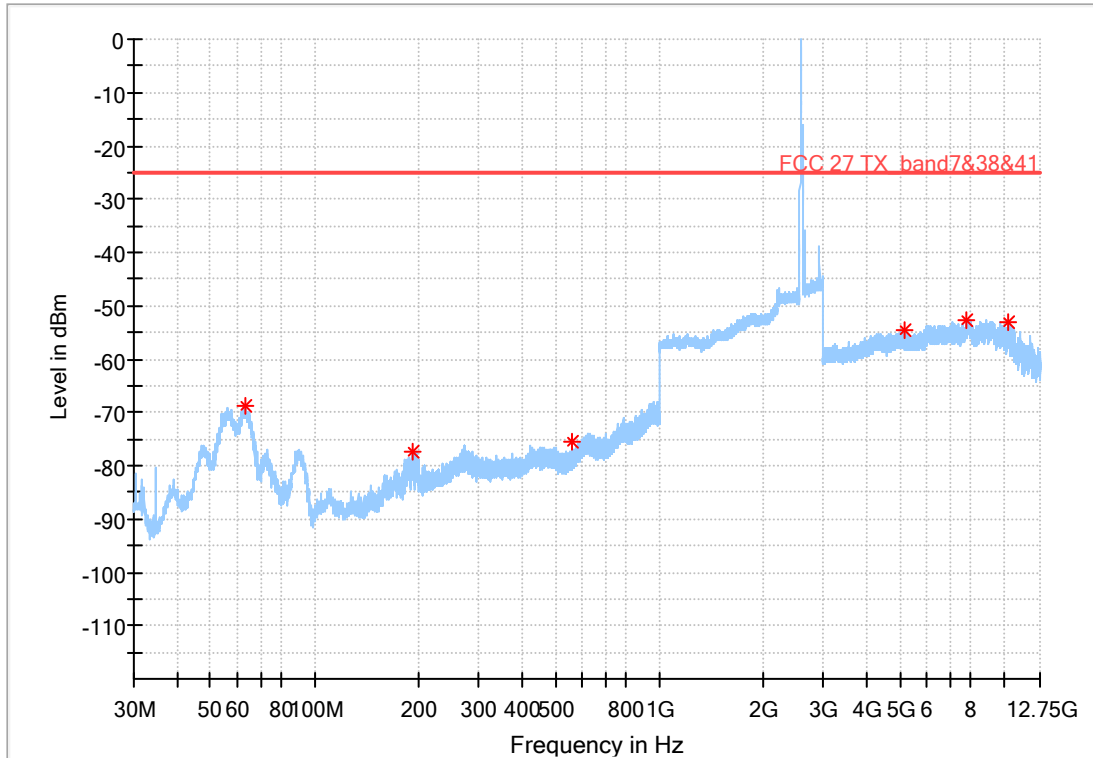


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7.1.2.1.3 Test Channel = 37901-38099\_H

Full Spectrum

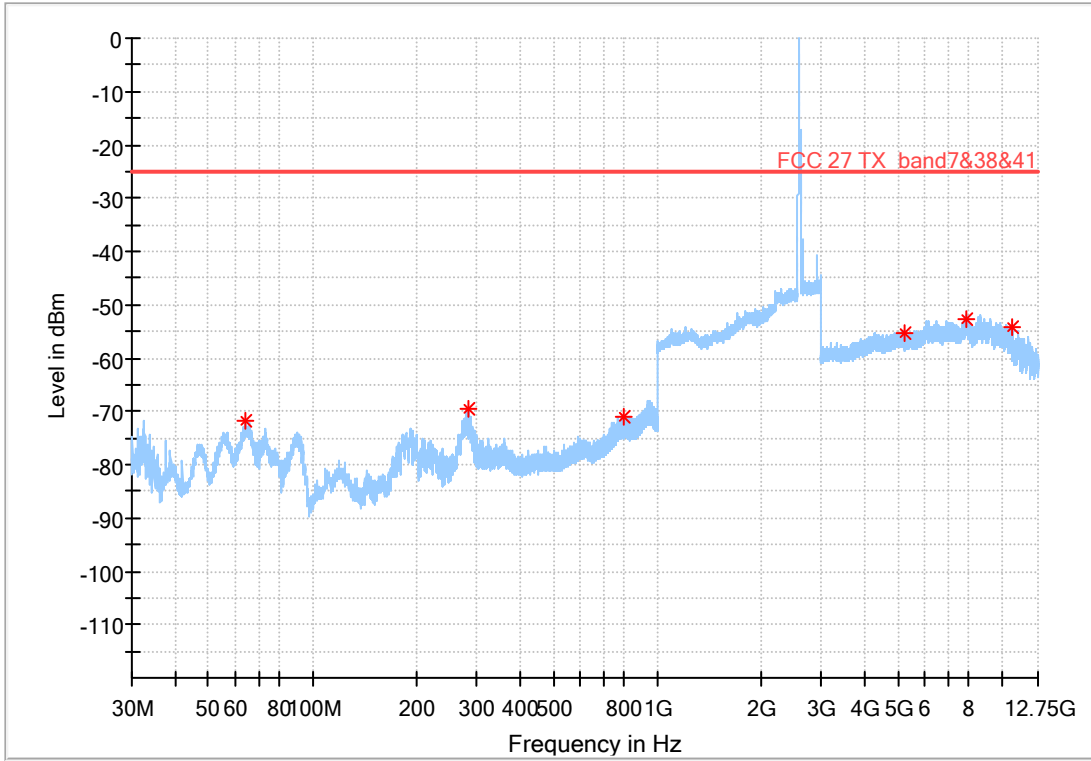


7.1.2.1.4 Test Channel = 37901-38099\_V



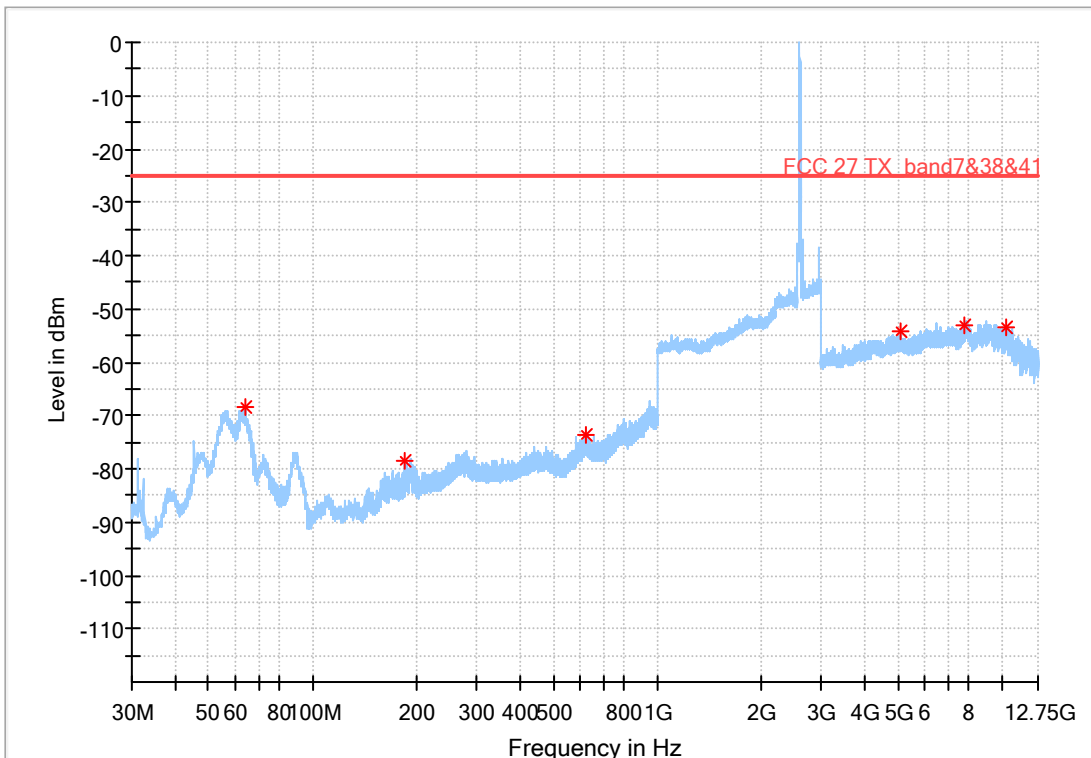


Full Spectrum



7.1.2.1.5 Test Channel = 37952-38150\_H

Full Spectrum

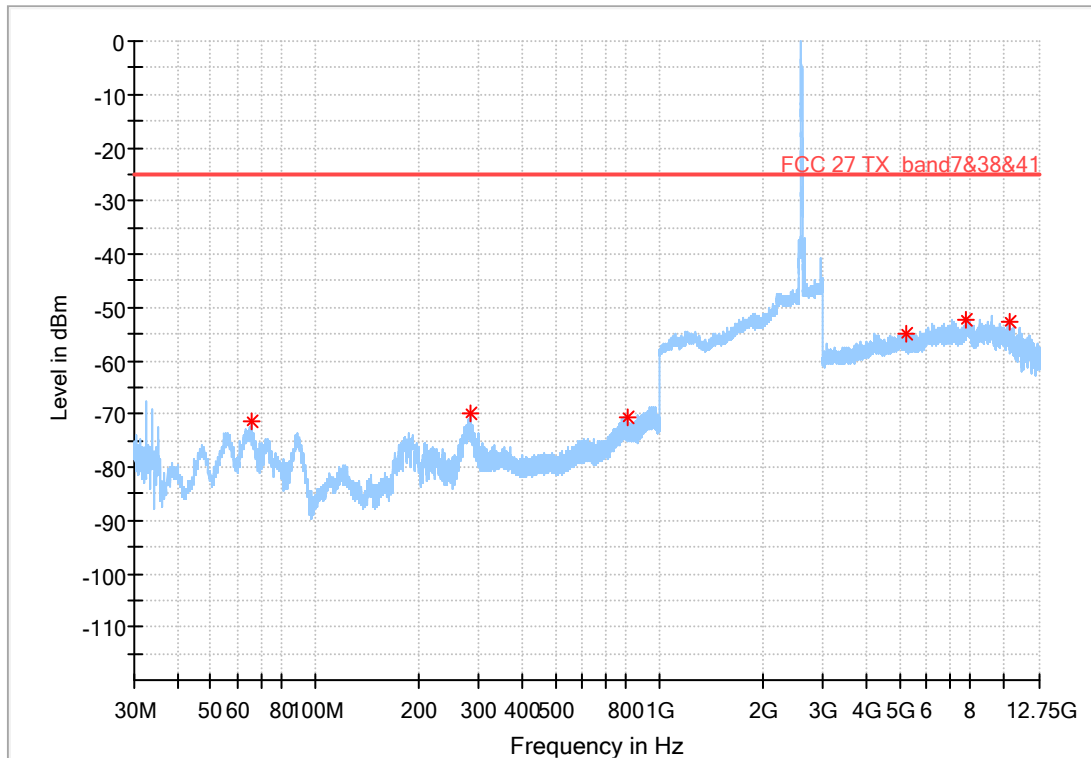


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7.1.2.1.6 Test Channel = 37952-38150\_V

Full Spectrum



NOTE:

- 1) The disturbance above 12.75GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case had been displayed.
- 2) We have tested all combinations and all modulations, but only the worst case data presented in this report.



## 8 Frequency Stability

### 8.1 Frequency Error VS. Voltage

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CA_38C	LTE/TM1 75RB+75RB	37825+37975	TN	VL	7.64	0.00296	PASS
				VN	3.41	0.00132	PASS
				VH	-4.10	-0.00159	PASS
		37925+38075	TN	VL	-8.83	-0.00341	PASS
				VN	2.33	0.00090	PASS
				VH	1.03	0.00040	PASS
		38025+38175	TN	VL	3.45	0.00133	PASS
				VN	-5.03	-0.00194	PASS
				VH	-5.13	-0.00197	PASS
	LTE/TM2 75RB+75RB	37825+37975	TN	VL	-9.55	-0.00370	PASS
				VN	-3.99	-0.00155	PASS
				VH	-9.37	-0.00364	PASS
		37925+38075	TN	VL	-4.17	-0.00161	PASS
				VN	-3.93	-0.00152	PASS
				VH	-5.19	-0.00201	PASS
		38025+38175	TN	VL	-3.28	-0.00126	PASS
				VN	8.27	0.00318	PASS
				VH	8.85	0.00341	PASS
	LTE/TM3 75RB+75RB	37825+37975	TN	VL	0.96	0.00037	PASS
				VN	3.46	0.00134	PASS
				VH	8.44	0.00327	PASS
		37925+38075	TN	VL	5.74	0.00222	PASS
				VN	-1.92	-0.00074	PASS
				VH	-6.37	-0.00246	PASS
		38025+38175	TN	VL	5.90	0.00227	PASS
				VN	3.06	0.00118	PASS
				VH	-8.53	-0.00328	PASS

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Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CA_38C	LTE/TM1 100RB+100RB	37850+38048	TN	VL	-3.01	-0.00117	PASS
				VN	0.18	0.00007	PASS
				VH	-5.18	-0.00201	PASS
		37901+38099	TN	VL	-8.51	-0.00336	PASS
				VN	-6.13	-0.00243	PASS
				VH	6.82	0.00270	PASS
		37952+38150	TN	VL	2.12	0.00082	PASS
				VN	-9.52	-0.00368	PASS
				VH	-2.78	-0.00107	PASS
	LTE/TM2 100RB+100RB	37850+38048	TN	VL	-2.24	-0.00087	PASS
				VN	-7.73	-0.00300	PASS
				VH	-3.26	-0.00126	PASS
		37901+38099	TN	VL	1.44	0.00057	PASS
				VN	8.86	0.00351	PASS
				VH	5.84	0.00231	PASS
		37952+38150	TN	VL	0.50	0.00019	PASS
				VN	4.36	0.00168	PASS
				VH	4.49	0.00173	PASS
	LTE/TM3 100RB+100RB	37850+38048	TN	VL	-6.30	-0.00244	PASS
				VN	-3.56	-0.00138	PASS
				VH	-7.12	-0.00276	PASS
		37901+38099	TN	VL	-3.25	-0.00129	PASS
				VN	-3.12	-0.00123	PASS
				VH	-4.02	-0.00159	PASS
		37952+38150	TN	VL	9.10	0.00351	PASS
				VN	-7.78	-0.00300	PASS
				VH	-2.36	-0.00091	PASS

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### 8.2 Frequency Error VS. Temperature

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CA_38C	LTE/TM1 75RB+75RB	37825+37975	VN	-30	5.63	0.00218	PASS
				-20	-6.11	-0.00237	PASS
				-10	4.03	0.00156	PASS
				0	6.99	0.00271	PASS
				10	1.82	0.00071	PASS
				20	5.56	0.00216	PASS
				30	-6.07	-0.00235	PASS
				40	4.47	0.00173	PASS
				50	-6.20	-0.00240	PASS
		37925+38075	VN	-30	2.90	0.00112	PASS
				-20	5.65	0.00219	PASS
				-10	-4.95	-0.00191	PASS
				0	-4.50	-0.00174	PASS
				10	-1.16	-0.00045	PASS
				20	-9.28	-0.00359	PASS
				30	3.26	0.00126	PASS
				40	9.47	0.00366	PASS
				50	-1.66	-0.00064	PASS
		38025+38175	VN	-30	7.58	0.00292	PASS
				-20	5.05	0.00194	PASS
				-10	-1.61	-0.00062	PASS
				0	-2.94	-0.00113	PASS
				10	5.27	0.00203	PASS
				20	-5.19	-0.00200	PASS
				30	0.75	0.00029	PASS
				40	-5.53	-0.00213	PASS
				50	8.19	0.00315	PASS

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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CA_38C	LTE/TM2 75RB+75RB	37825+37975	VN	-30	-2.70	-0.00105	PASS
				-20	8.42	0.00327	PASS
				-10	7.57	0.00294	PASS
				0	-2.19	-0.00085	PASS
				10	6.38	0.00247	PASS
				20	-7.54	-0.00292	PASS
				30	1.53	0.00060	PASS
				40	-5.94	-0.00230	PASS
		37925+38075	VN	-30	-1.01	-0.00039	PASS
				-20	-5.58	-0.00216	PASS
				-10	7.45	0.00288	PASS
				0	-3.06	-0.00118	PASS
				10	3.71	0.00143	PASS
				20	-4.48	-0.00173	PASS
				30	3.20	0.00123	PASS
				40	5.83	0.00225	PASS
		38025+38175	VN	-30	-0.69	-0.00027	PASS
				-20	7.51	0.00289	PASS
				-10	-6.15	-0.00237	PASS
				0	0.54	0.00021	PASS
				10	7.43	0.00286	PASS
				20	-8.17	-0.00314	PASS
				30	-6.34	-0.00244	PASS
				40	1.16	0.00044	PASS
		50	0.26	0.00010	PASS		

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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CA_38C	LTE/TM3 75RB+75RB	37825+37975	VN	-30	9.72	0.00377	PASS
				-20	6.47	0.00251	PASS
				-10	2.81	0.00109	PASS
				0	1.14	0.00044	PASS
				10	2.90	0.00113	PASS
				20	5.67	0.00220	PASS
				30	-9.30	-0.00361	PASS
				40	-3.75	-0.00146	PASS
		37925+38075	VN	-30	-2.68	-0.00104	PASS
				-20	-1.99	-0.00077	PASS
				-10	-7.67	-0.00296	PASS
				0	-9.92	-0.00383	PASS
				10	3.97	0.00154	PASS
				20	-0.28	-0.00011	PASS
				30	-5.34	-0.00206	PASS
				40	-2.04	-0.00079	PASS
		38025+38175	VN	-30	-0.35	-0.00014	PASS
				-20	8.66	0.00334	PASS
				-10	-5.79	-0.00223	PASS
				0	0.53	0.00020	PASS
				10	5.02	0.00193	PASS
				20	1.25	0.00048	PASS
				30	6.64	0.00256	PASS
				40	6.61	0.00255	PASS
		50	-9.27	-0.00357	PASS		

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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CA_38C	LTE/TM1 100RB+100RB	37850+38048	VN	-30	8.69	0.00337	PASS
				-20	-9.56	-0.00371	PASS
				-10	8.23	0.00319	PASS
				0	7.63	0.00296	PASS
				10	2.37	0.00092	PASS
				20	0.42	0.00016	PASS
				30	-8.17	-0.00317	PASS
				40	-3.20	-0.00124	PASS
		37901+38099	VN	-30	1.16	0.00046	PASS
				-20	5.21	0.00206	PASS
				-10	6.49	0.00257	PASS
				0	2.46	0.00097	PASS
				10	-4.08	-0.00161	PASS
				20	2.81	0.00111	PASS
				30	-3.91	-0.00154	PASS
				40	0.73	0.00029	PASS
		37952+38150	VN	-30	-4.59	-0.00177	PASS
				-20	-5.35	-0.00207	PASS
				-10	6.35	0.00245	PASS
				0	-4.15	-0.00160	PASS
				10	5.21	0.00201	PASS
				20	-7.51	-0.00290	PASS
				30	7.59	0.00293	PASS
				40	-4.07	-0.00157	PASS
		50	0.53	0.00020	PASS		

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CA_38C	LTE/TM2 100RB+100RB	37850+38048	VN	-30	-6.61	-0.00256	PASS
				-20	2.91	0.00113	PASS
				-10	2.62	0.00101	PASS
				0	0.39	0.00015	PASS
				10	-6.17	-0.00239	PASS
				20	-2.98	-0.00116	PASS
				30	9.12	0.00354	PASS
				40	-5.21	-0.00202	PASS
		37901+38099	VN	50	-3.06	-0.00119	PASS
				-30	3.75	0.00148	PASS
				-20	2.83	0.00112	PASS
				-10	-9.25	-0.00366	PASS
				0	-0.58	-0.00023	PASS
				10	-8.53	-0.00337	PASS
				20	-4.47	-0.00177	PASS
				30	6.55	0.00259	PASS
		37952+38150	VN	40	-1.26	-0.00050	PASS
				50	0.59	0.00024	PASS
				-30	5.19	0.00200	PASS
				-20	4.68	0.00181	PASS
				-10	0.20	0.00008	PASS
				0	-5.32	-0.00205	PASS
				10	-6.71	-0.00259	PASS
				20	-7.29	-0.00281	PASS
30	6.08	0.00235	PASS				
40	4.17	0.00161	PASS				
50	-3.74	-0.00144	PASS				

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CA_38C	LTE/TM3 100RB+100RB	37850+38048	VN	-30	9.64	0.00373	PASS
				-20	5.69	0.00220	PASS
				-10	-9.21	-0.00357	PASS
				0	-7.10	-0.00275	PASS
				10	-8.23	-0.00319	PASS
				20	3.73	0.00145	PASS
				30	-2.49	-0.00097	PASS
				40	2.95	0.00114	PASS
		37901+38099	VN	-30	8.43	0.00333	PASS
				-20	-0.07	-0.00003	PASS
				-10	-8.56	-0.00339	PASS
				0	-0.04	-0.00002	PASS
				10	-1.08	-0.00043	PASS
				20	-0.95	-0.00038	PASS
				30	7.11	0.00281	PASS
				40	-7.68	-0.00304	PASS
		37952+38150	VN	-30	-5.39	-0.00208	PASS
				-20	-3.32	-0.00128	PASS
				-10	-7.87	-0.00304	PASS
				0	-7.73	-0.00298	PASS
				10	2.95	0.00114	PASS
				20	2.13	0.00082	PASS
				30	1.58	0.00061	PASS
				40	-1.84	-0.00071	PASS
			50	0.50	0.00019	PASS	

The End

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