



FCC Radio Test Report

FCC ID: RWO-RC30021702

This report concerns (check one): ⊠Original Grant □Class I Change □Class II Change

Project No. : 1704C344

Equipment : Wireless Mouse

Model Name : RC30-021702

Applicant : Razer Inc.

Address : 201 3rd Street, Suite 900, San Francisco, CA 94103

Date of Receipt : May 02, 2017

Date of Test : May 02, 2017 ~ Jun. 06, 2017

Issued Date : Jun. 08, 2017
Tested by : BTL Inc.

Testing Engineer : Vitas Zhou

(Vitas Zhou)

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-1-1704C344	Original Issue.	Jun. 08, 2017

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1. CERTIFICATION

Equipment : Wireless Mouse

Brand Name: RAZER

Model Name : RC30-021702 Applicant : Razer Inc.

Manufacturer: Razer (Asia-Pacific) Pte.,Ltd.

Address : 201 3rd Street, Suite 900, San Francisco, CA 94103

Factory : RAZER TECHNOLOGY AND DEVELOPMENT (SHENZHEN) CO., LTD

Address : East Wing, 3rd Floor, Block 2, Phase 1 of Vision Shenzhen Business Park Keji

South Road, Hi-Tech Industrial

Date of Test : May 02, 2017 ~ Jun. 06, 2017

Test Sample: Engineering Sample

Standard(s): FCC Part15, Subpart C (15.247)

ANSI C63.10-2013

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-1-1704C1344) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

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2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

Applied Standard(s): FCC Part15 (15.247) , Subpart C				
Standard(s) Section	Test Item	Judgment	Remark	
15.207	Conducted Emission	N/A		
15.247(d)	Antenna conducted Spurious Emission	PASS		
15.247(a)(2)	6dB Bandwidth	PASS		
15.247(b)(3)	Peak Output Power	PASS		
15.247(e)	Power Spectral Density	PASS		
15.203	Antenna Requirement	PASS		
15.247(d)/ 15.205/ 15.209	Transmitter Radiated Emissions	PASS		

NOTE:

(1)" N/A" denotes test is not applicable to this device.

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2.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

BTL's test firm number for FCC: 319330

2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2 U_{cispr} requirement.

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

A. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)	
		9KHz~30MHz	V	3.79	
		9KHz~30MHz	Ι	3.57	
		30MHz ~ 200MHz	V	3.82	
		30MHz ~ 200MHz	Ι	3.78	
DG-CB03	CISPR	200MHz ~ 1,000MHz	V	4.10	
DG-CD03	3 CISPR		200MHz ~ 1,000MHz	Н	4.06
		1GHz~18GHz	V	3.12	
		1GHz~18GHz	Н	3.68	
		18GHz~40GHz	V	4.15	
		18GHz~40GHz	Н	4.14	

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

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3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Wireless Mouse		
Brand Name	RAZER		
Model Name	RC30-021702		
Model Difference	The System's model name is RZ01-0217 and the system contains of a Wireless mouse (Model Name: RC30-021702) and the USB Dongle (Model Name: DGRFG5).		
	Operation Frequency	2402~2480 MHz	
Product Description	Modulation Technology	GFSK(1Mbps)	
1 Toddot Becomption	Bit Rate of Transmitter	Of Ort(Tivibps)	
	Output Power (Max.)	5.17 dBm	
Power Source	Supplied from 2*AA battery.		
Power Rating	DC 3V		

Note:

1.	For a more detailed features description, please refer to the manufacturer's specifications or the
	user's manual.

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2. Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	20	2442
01	2404	21	2444
02	2406	22	2446
03	2408	23	2448
04	2410	24	2450
05	2412	25	2452
06	2414	26	2454
07	2416	27	2456
08	2418	28	2458
09	2420	29	2460
10	2422	30	2462
11	2424	31	2464
12	2426	32	2466
13	2428	33	2468
14	2430	34	2470
15	2432	35	2472
16	2434	36	2474
17	2436	37	2476
18	2438	38	2478
19	2440	39	2480

3. Table for Filed Antenna:

Ant.	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)
1	GainForce	AT3216	Chip	N/A	0.5

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3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	TX Mode NOTE (1)

The EUT system operated these modes were found to be the worst case during the pre-scanning test as following:

For Conducted Test		
Final Test Mode	Description	
Mode 1	TX Mode	

For Radiated Test		
Final Test Mode	Description	
Mode 1	TX Mode NOTE (1)	

Note:

(1) The measurements are performed at the high, middle, low available channels.

3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of BT LE

Test Software Version	N/A		
Frequency (MHz)	2402	2440	2480
BT LE	N/A	N/A	N/A

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3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

EUT		

3.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.
-	-	-	-	-	-

Item	Shielded Type	Ferrite Core	Length	Note
-	-	-	1	-

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4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 POWER LINE CONDUCTED EMISSION LIMITS (Frequency Range 150KHz-30MHz)

Fraguency of Emission (MHz)	Conducted Limit (dBµV)	
Frequency of Emission (MHz)	Quasi-peak	Average
0.15 -0 5	66 to 56*	56 to 46*
0.50 -5.0	56	46
5.0 -30.0	0	50

Note:

- (1) The limit of " * " decreases with the logarithm of the frequency
- (2) The test result calculated as following: Measurement Value = Reading Level + Correct Factor Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor(if use) Margin Level = Measurement Value - Limit Value

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

4.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

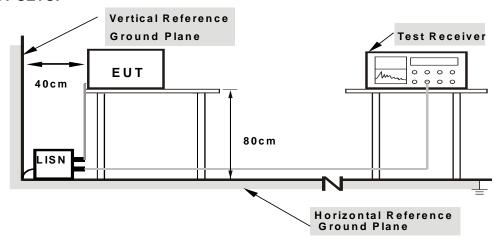
No deviation

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4.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

4.1.6 EUT TEST CONDITIONS

Temperature: 24°C Relative Humidity: 60% Test Voltage: N/A

4.1.7 TEST RESULTS

Please refer to the Attachment A.

Remark:

- (1) All readings are QP Mode value unless otherwise stated AVG in column of Note ... If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a " * " marked in AVG Mode column of Interference Voltage Measured.
- (2) Measuring frequency range from 150KHz to 30MHz.
- (3) " N/A" denotes test is not applicable to this device.

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4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (9KHz-1000MHz)

Frequency	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
960~1000	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

Fraguanay (MHz)	Band edge at 3	3m (dBµV/m)	Harmonic at 1.5m (dBµV/m)	
Frequency (MHz)	Peak	Average	Peak	Average
Above 1000	74	54	80 (Note 5)	60(Note 5)

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).
- (4) The test result calculated as following: Measurement Value = Reading Level + Correct Factor Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use) Margin Level = Measurement Value - Limit Value

$$FS_{\text{limit}} = FS_{\text{max}} - 20\log\left(\frac{d_{\text{limit}}}{d_{\text{measure}}}\right)$$

20log d limit/d measure=20log 3/1.5=6dB.

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Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW	RBW 1MHz VBW 3MHz peak detector for Pk value
(Emission in restricted band)	RMS detector for AV value

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9KHz~90KHz for PK/AVG detector
Start ~ Stop Frequency	90KHz~110KHz for QP detector
Start ~ Stop Frequency	110KHz~490KHz for PK/AVG detector
Start ~ Stop Frequency	490KHz~30MHz for QP detector
Start ~ Stop Frequency	30MHz~1000MHz for QP detector

4.2.2 TEST PROCEDURE

- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance of 3 m or 1.5m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
- f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1GHz)
- h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1GHz)
- i. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

No deviation

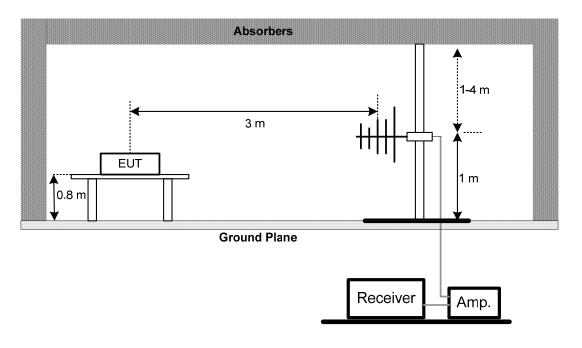
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4.2.4 TEST SETUP

(A) Radiated Emission Test Set-Up Frequency Below 1 GHz

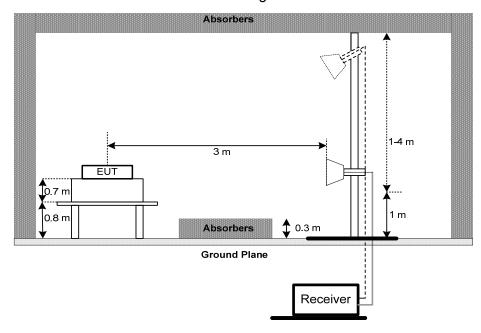


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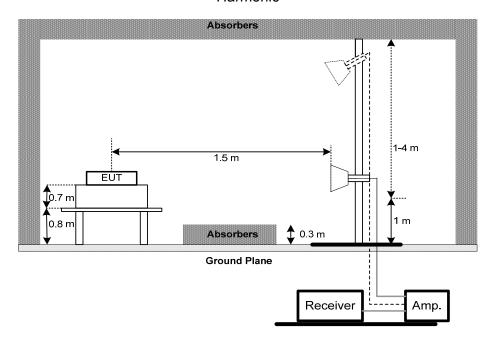




(B) Radiated Emission Test Set-Up Frequency Above 1 GHz Band edge



Harmonic

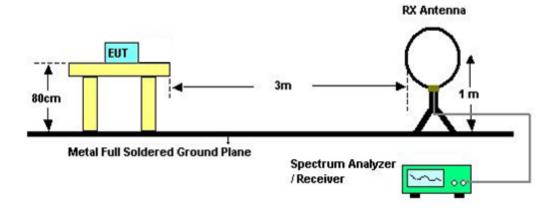


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(C) For radiated emissions below 30MHz



4.2.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.2.6 EUT TEST CONDITIONS

Temperature: 22°C Relative Humidity: 56% Test Voltage: DC 3V

4.2.7TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the Attachment B

Remark:

- (1) The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.
- (2) Distance extrapolation factor = 40 log (specific distance / test distance) (dB).
- (3) Limit line = specific limits (dBuV) + distance extrapolation factor.

4.2.8TEST RESULTS (30MHZ TO 1000 MHZ)

Please refer to the Attachment C.

4.2.9TEST RESULTS (ABOVE 1000 MHZ)

Please refer to the Attachment D.

Remark:

(1) No limit: This is fundamental signal, the judgment is not applicable. For fundamental signal judgment was referred to Peak output test.

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5. BANDWIDTH TEST

5.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS

5.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = 2.5 ms.

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

5.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

5.1.5 EUT TEST CONDITIONS

Temperature: 24°C Relative Humidity: 60% Test Voltage: DC 3V

5.1.6 TEST RESULTS

Please refer to the Attachment E.

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6. MAXIMUM OUTPUT POWER TEST

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247), Subpart C						
Section	Test Item	Limit	Frequency Range (MHz)	Result		
15.247(b)(3)	Maximum Output Power	1 watt or 30dBm	2400-2483.5	PASS		

6.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below,
- b. The maximum peak conducted output power was performed in accordance with method 9.2 of FCC KDB 558074 D01 DTS Meas Guidance.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP

EUT	Power Meter
	1 5 Well Wieler

6.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

6.1.5 EUT TEST CONDITIONS

Temperature: 24°C Relative Humidity: 60% Test Voltage: DC 3V

6.1.6 TEST RESULTS

Please refer to the Attachment F.

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7. ANTENNA CONDUCTED SPURIOUS EMISSION

7.1 APPLIED PROCEDURES / LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits.

7.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = 10 ms.
- c. Offset=antenna gain+cable loss

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP



7.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

7.1.5 EUT OPERATION CONDITIONS

Temperature: 24°C Relative Humidity: 60% Test Voltage: DC 3V

7.1.6 TEST RESULTS

Please refer to the Attachment G.

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8. POWER SPECTRAL DENSITY TEST

8.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247), Subpart C						
Section Test Item		Limit	Frequency Range (MHz)	Result		
15.247(e)	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS		

8.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW=3KHz, VBW=10 KHz, Sweep time = auto.

8.1.2 DEVIATION FROM STANDARD

No deviation.

8.1.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

8.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

8.1.5 EUT TEST CONDITIONS

Temperature: 24°C Relative Humidity: 60% Test Voltage: DC 3V

8.1.6 TEST RESULTS

Please refer to the Attachment H.

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9. MEASUREMENT INSTRUMENTS LIST

	Radiated Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 26, 2018	
2	Amplifier	HP	8447D	2944A09673	Oct. 20, 2017	
3	Receiver	AGILENT	N9038A	MY52130039	Oct. 20, 2017	
4	Test Cable	emci	LMR-400(30MH z-1GHz)	C-01	Jun. 27, 2017	
5	Control	CT	SC100	N/A	N/A	
6	Position Control	MF	MF-7802	MF780208416	N/A	
7	Antenna	ETS	3115	00075789	Mar. 26, 2018	
8	Amplifier	Agilent	8449B	3008A02274	Feb. 22, 2018	
9	Test Cable	emci	EMC104-SM-S M-10000(1GHz -26.5GHz)	C-68	Jul. 06, 2017	
10	Controller	СТ	SC100	N/A	N/A	
11	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Apr. 22, 2018	
12	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 26, 2018	
13	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Sep. 06, 2017	
14	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A	

	6dB Bandwidth Measurement						
Item	Item Kind of Equipment Manufacturer Type No. Serial No. Calibrated unti						
1 Spectrum Analyzer R&S FSP 40 100185 Sep. 04, 201							

	Peak Output Power Measurement							
Item	Item Kind of Equipment Manufacturer Type No. Serial No. Calibrated until							
1	Power Meter	ANRITSU	ML2495A	1128009	Mar. 26, 2018			
2	Pulse Power Sensor	ANRITSU	MA 2411B	1027500	Mar. 26, 2018			

	Antenna Conducted Spurious Emission Measurement					
Item	Item Kind of Equipment Manufacturer Type No. Serial No. Calibrated					
1 Spectrum Analyzer R&S FSP 40 100185 Sep. 04, 20						

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	Power Spectral Density Measurement						
Item	m Kind of Equipment Manufacturer Type No. Serial No. Calibrated until						
1	Spectrum Analyzer	R&S	FSP 40	100185	Sep. 04, 2017		

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of equipment list is one year.

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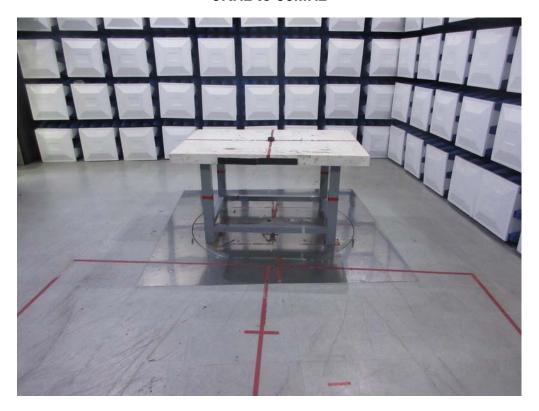




10. EUT TEST PHOTO

Radiated Measurement Photos

9KHz to 30MHz





Report No.: BTL-FCCP-1-1704C344





Radiated Measurement Photos

30MHz to 1000MHz





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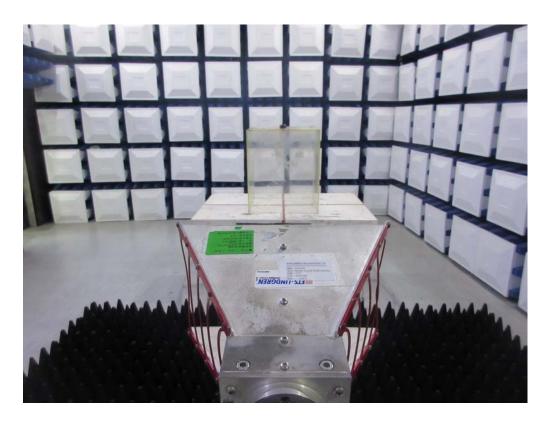




Radiated Measurement Photos

1GHz to 18GHz





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ATTACHMENT A - CONDUCTED EMISSION

Test	Mode:	Ν/Δ	

Note: "N/A" denotes test is not applicable to this device.

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ATTACHMENT B - RADIATED EMISSION (9KHZ TO 30MHZ)

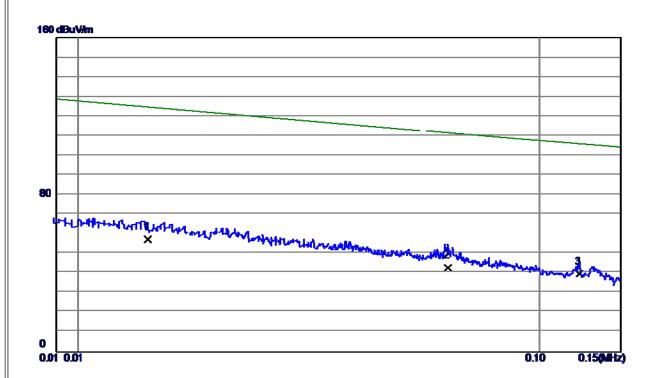
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Ant 0°



No.	Freq.	keading Level	Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.0142	36.83	20. 37	57. 2 0	127. 21	-70. 01	AVG	
2	0.0633	24. 30	18. 46	12. 76	115.09	-72. 33	AVG	
3 *	0. 1221	22. 21	17. 32	39. 53	106. 37	-66. 84	AVG	

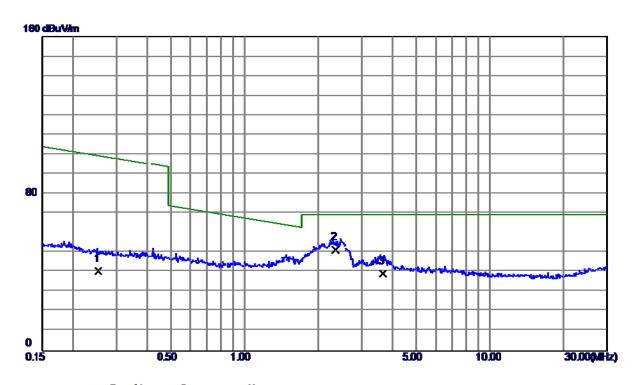
Report No.: BTL-FCCP-1-1704C344 Page 31 of 69





Test Mode: TX Mode

Ant 0°



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0. 2527	23.94	16. 65	40. 59	101. 90	-61. 31	AVG	
2 *	2.3462	36. 09	15. 41	51. 5 0	69. 51	-18. 04	QP	
3	3.6620	24. 26	15. 0 5	39. 31	69. 54	-30. 23	QP	

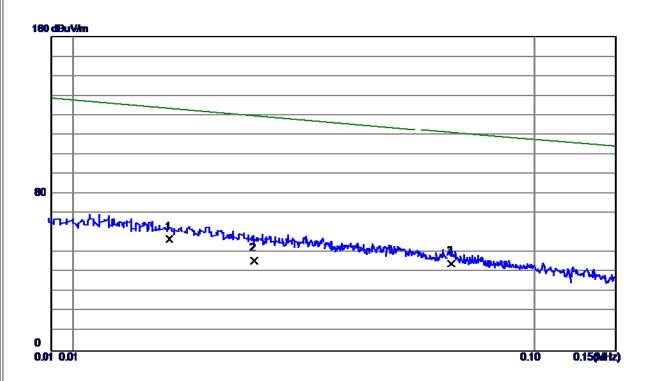
Report No.: BTL-FCCP-1-1704C344 Page 32 of 69





Test Mode: TX Mode

Ant 90°



No.	Freq.	keading Level	Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	₫B	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.0162	36. 81	20. 11	56. 92	126. 72	-69. 80	AVG	
2	0.0247	26. 51	19. 48	15. 99	124. 62	-78. 63	AVG	
3 *	0.0662	26. 18	18. 40	44. 58	114. 37	-69. 79	AVG	

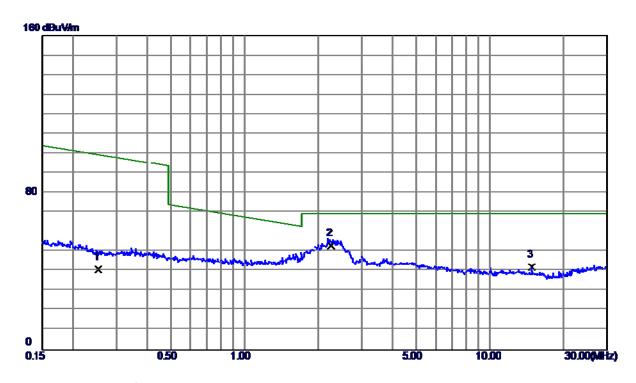
Report No.: BTL-FCCP-1-1704C344 Page 33 of 69





Test Mode: TX Mode

Ant 90°



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0. 2533	24.37	16. 65	41. 02	101.88	-60. 86	AVG	
2 *	2. 2467	37.71	15. 44	53. 15	69. 51	-16. 39	QP	
3	14. 8335	28. 21	14. 08	42. 29	69. 54	-27. 25	QP	

Report No.: BTL-FCCP-1-1704C344 Page 34 of 69





ATTACHMENT C - RADIATED EMISSION (30MHZ TO 1000MHZ)

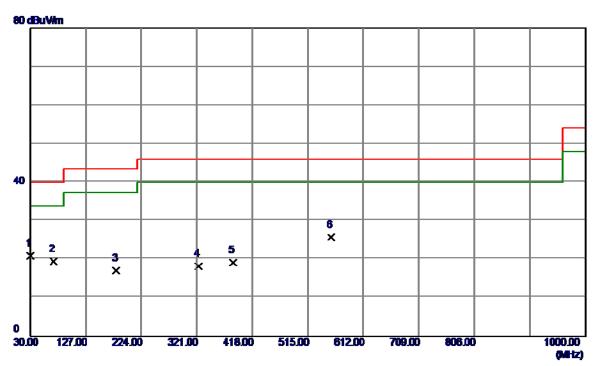
Report No.: BTL-FCCP-1-1704C344 Page 35 of 69





Test Mode: TX 2402MHz _CH00_1Mbps

Vertical



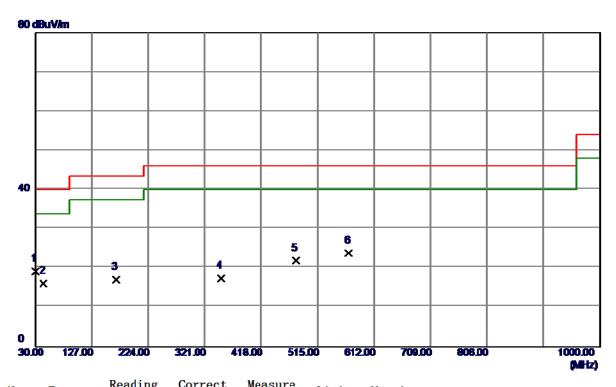
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MIIz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	30.0000	35. 94	-15. 04	20. 90	40.00	-19. 10	Peak	
2	70. 7400	35. 79	-16. 3 1	19. 48	40.00	-20 . 5 2	Peak	
3	180. 3500	28.81	-11. 67	17. 14	43. 50	-26. 36	Peak	
4	323.9100	30.06	-11. 83	18. 23	46.00	-27. 77	Peak	
5	385. 0200	30. 14	-10. 89	19. 25	46.00	-26 . 7 5	Peak	
6	555. 7400	32. 42	-6. 70	25. 72	46. 00	-20. 28	Peak	

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Horizontal



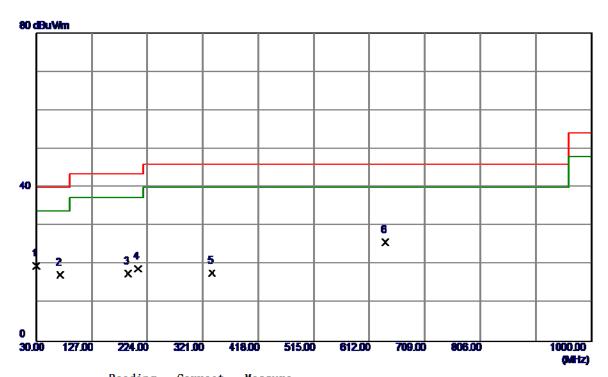
No.	Freq.	keading Level	Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	30.0000	34. 31	−15. 04	19. 27	40.00	-20. 73	Peak	
2	44. 5500	29. 32	-13. 11	16. 21	40.00	-23.79	Peak	
3	168.7100	29. 08	-12. 03	17. 05	43. 50	-26. 45	Peak	
4	349. 1300	28. 87	-11. 36	17. 51	46. 00	-28. 49	Peak	
5	478. 1400	30. 46	-8. 49	21. 97	46.00	-24. 03	Peak	
6	568. 3500	30. 13	-6. 36	23. 77	46.00	-22. 23	Peak	

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Vertical



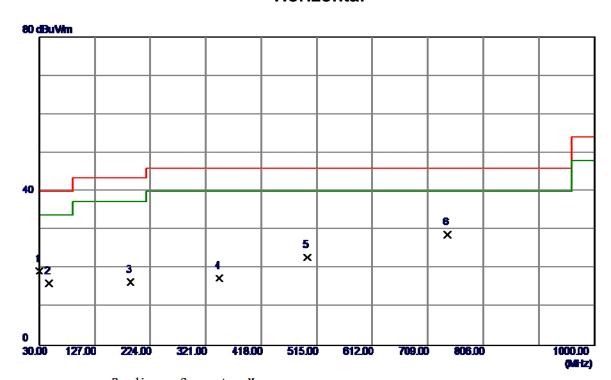
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MIIz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	30.0000	34. 72	-15. 04	19. 68	40.00	-20. 32	Peak	
2	71. 7100	33. 76	-16. 42	17. 34	40.00	-22. 66	Peak	
3	190.0500	30. 10	-12. 45	17. 65	43. 50	-25. 85	Peak	
4	207. 5100	32. 35	-13. 50	18. 85	43. 50	-24. 65	Peak	
5	337. 4900	29. 34	-11. 58	17. 76	46.00	-28. 24	Peak	
6 *	640. 1300	30. 51	-4. 70	25. 81	46. 00	-20. 19	Peak	

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Horizontal



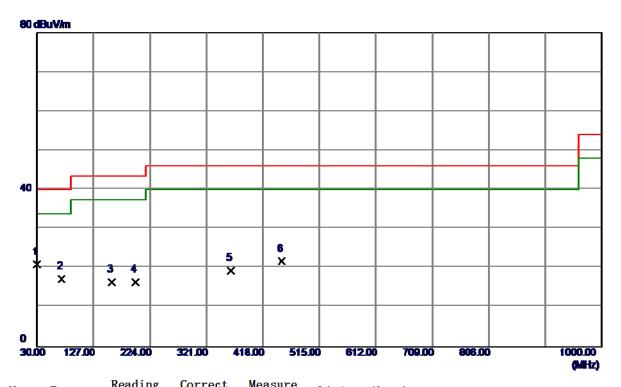
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MIIz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	30.0000	34. 32	-15 . 0 4	19. 28	40.00	-20 . 7 2	Peak	
2	47. 4600	29.08	-12. 86	16. 22	40.00	-23. 78	Peak	
3	189. 0800	28.85	-12. 37	16. 48	43. 50	-27. 0 2	Peak	
4	344. 2800	28.91	-11. 45	17. 46	46.00	-28. 54	Peak	
5	498. 5100	30. 78	-7. 97	22. 81	46.00	-23. 19	Peak	
6 *	742. 9500	30. 40	-1.61	28. 79	46. 00	-17. 21	Peak	

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Vertical



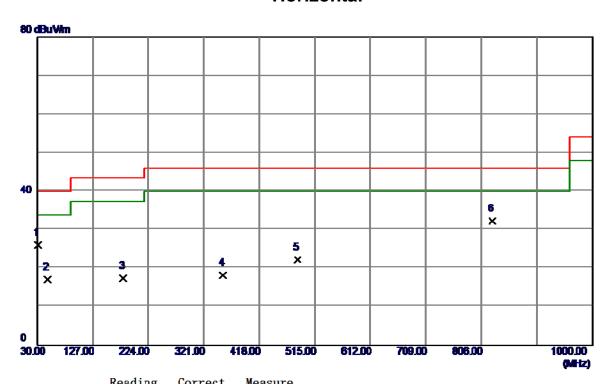
No.	Freq.	keading Level	Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	30. 0000	36. 02	-15. 0 4	20. 98	40.00	-19.02	Peak	
2	71. 7100	33. 70	-16. 42	17. 28	40.00	-22. 72	Peak	
3	158. 0399	29. 19	-12. 67	16. 52	43. 50	-26. 98	Peak	
4	198. 7800	29. 68	-13 . 2 3	16. 45	43 . 50	-27. 05	Peak	
5	362. 7100	30. 48	-11. 18	19. 30	46.00	-26. 70	Peak	
6	450. 0100	30. 95	-9. 21	21. 74	46.00	-24. 26	Peak	

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Horizontal



Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
MIIz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
30. 9700	40.98	-14. 93	26. 05	40.00	-13.9 5	Peak	
48. 4300	30.09	-13. 02	17. 07	40.00	-22. 9 3	Peak	
180. 3500	29. 11	-11. 67	17. 44	43.50	-26. 06	Peak	
354. 9500	29.46	-11. 28	18. 18	46.00	-27. 82	Peak	
484. 9300	30. 57	-8. 32	22. 25	46. 00	-23. 75	Peak	
825. 4000	31.89	0. 44	32. 33	46.00	-13. 67	Peak	
	MIIz 30. 9700 48. 4300 180. 3500 354. 9500 484. 9300	MIIz dBuV/m 30.9700 40.98	MIIz dBuV/m dB 30.9700 40.98 -14.93 48.4300 30.09 -13.02 180.3500 29.11 -11.67 354.9500 29.46 -11.28 484.9300 30.57 -8.32	MIIz dBuV/m dB dBuV/m 30.9700 40.98 -14.93 26.05 48.4300 30.09 -13.02 17.07 180.3500 29.11 -11.67 17.44 354.9500 29.46 -11.28 18.18 484.9300 30.57 -8.32 22.25	MIIz dBuV/m dB dBuV/m dBuV/m 30.9700 40.98 -14.93 26.05 40.00 48.4300 30.09 -13.02 17.07 40.00 180.3500 29.11 -11.67 17.44 43.50 354.9500 29.46 -11.28 18.18 46.00 484.9300 30.57 -8.32 22.25 46.00	MIIz dBuV/m dB dBuV/m dBuV/m dB dBuV/m dBuV/m dB 30.9700 40.98 -14.93 26.05 40.00 -13.95 48.4300 30.09 -13.02 17.07 40.00 -22.93 180.3500 29.11 -11.67 17.44 43.50 -26.06 354.9500 29.46 -11.28 18.18 46.00 -27.82 484.9300 30.57 -8.32 22.25 46.00 -23.75	MIIz dBuV/m dB dBuV/m dBuV/m dB Detector 30.9700 40.98 -14.93 26.05 40.00 -13.95 Peak 48.4300 30.09 -13.02 17.07 40.00 -22.93 Peak 180.3500 29.11 -11.67 17.44 43.50 -26.06 Peak 354.9500 29.46 -11.28 18.18 46.00 -27.82 Peak 484.9300 30.57 -8.32 22.25 46.00 -23.75 Peak

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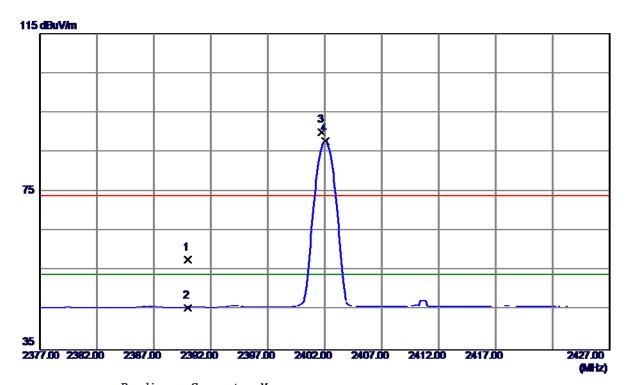
ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

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Vertical

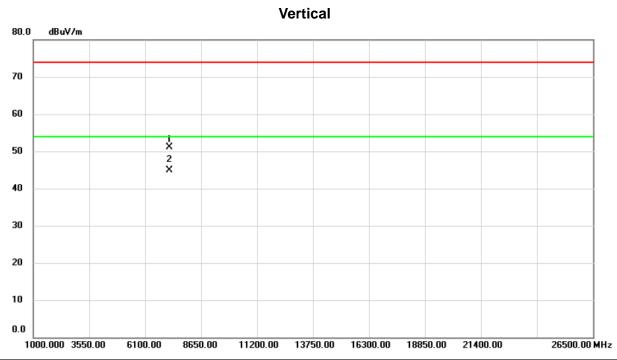


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390. 0000	25. 34	32. 38	57. 72	74.00	-16. 28	Peak	
2	2390. 0000	13. 25	32. 38	45. 63	54.00	-8.37	AVG	
3	2401. 7500	57. 62	32. 42	90. 04	74.00	16.04	Peak	No limit
4 *	2402. 0500	55. 46	32. 42	87. 88	54.00	33.88	AVG	No limit

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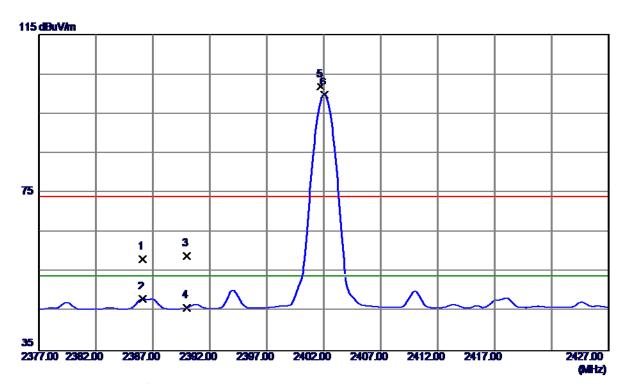
No.	Mk.	Freq.			Measure- ment		Margin				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment		
1		7206.015	39.11	12.03	51.14	74.00	-22.86	peak			
2	*	7206.305	32.91	12.04	44.95	54.00	-9.05	AVG			

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Horizontal

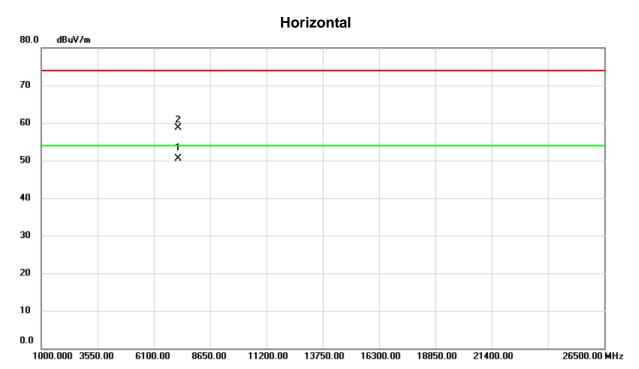


No.	Freq.	Reading Level	Correct Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2386. 1000	25. 87	32. 36	58. 23	74.00	-15. 77	Peak	
2	2386. 1000	15. 75	32. 36	48. 11	54.00	-5.89	AVG	
3	2390. 0000	26. 69	32. 38	59. 07	74.00	-14. 93	Peak	
4	2390. 0000	13. 50	32. 38	45. 88	54.00	-8. 12	AVG	
5	2401. 7500	69. 50	32. 42	101. 92	74.00	27.92	Peak	No limit
6 *	2402. 0500	67. 41	32. 42	99. 83	54.00	45.83	AVG	No limit

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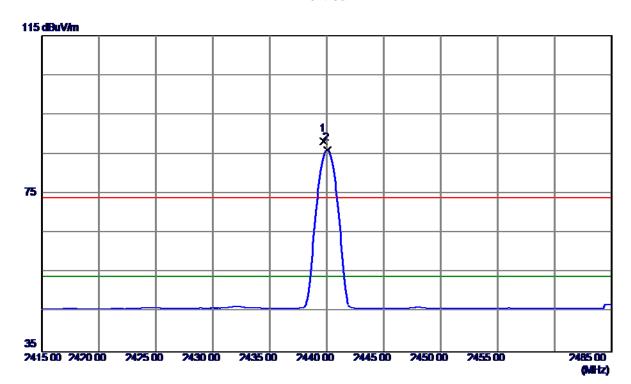
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	7206.620	38.55	12.04	50.59	54.00	-3.41	AVG	
2		7206.745	46.57	12.04	58.61	74.00	-15.39	peak	

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Vertical



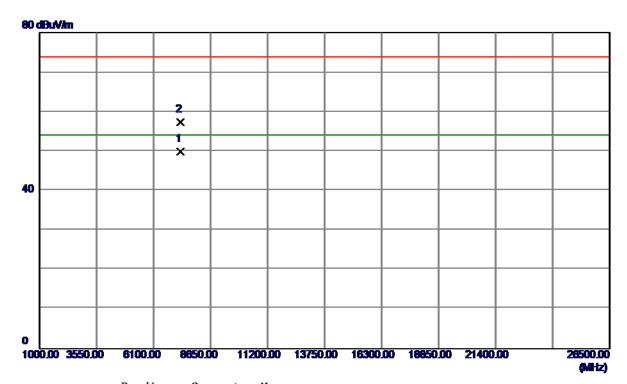
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2439. 7500	55. 77	32. 55	88. 32	74.00	14. 32	Peak	No limit
2 *	2440. 0500	53. 55	32. 56	86. 11	54.00	32. 11	AVG	No limit
	2110.0000	00.00	02.00	00. 11	01.00	02.11	1110	NO TIMIC

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Vertical



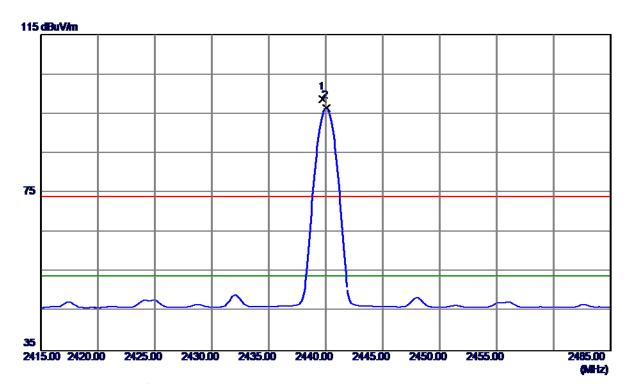
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	7319. 4100	37. 76	12. 21	49. 97	54.00	-4.03	AVG	
2	7320. 7550	45. 28	12. 21	57. 49	74.00	-16. 51	Peak	

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Horizontal



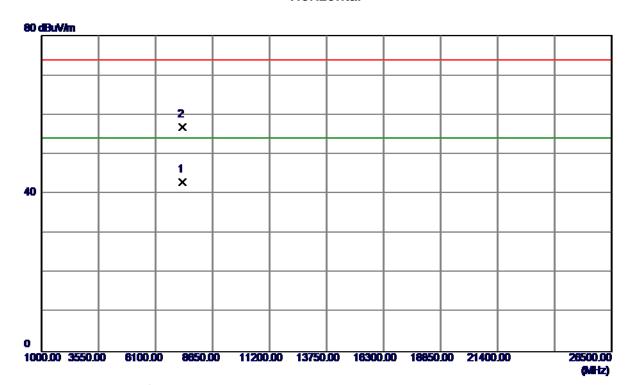
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2439. 7500	66. 07	32. 55	98. 62	74.00	24.62	Peak	No limit
2 *	2440. 0500	63. 93	32. 56	96. 49	54.00	42.49	AVG	No limit

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Horizontal



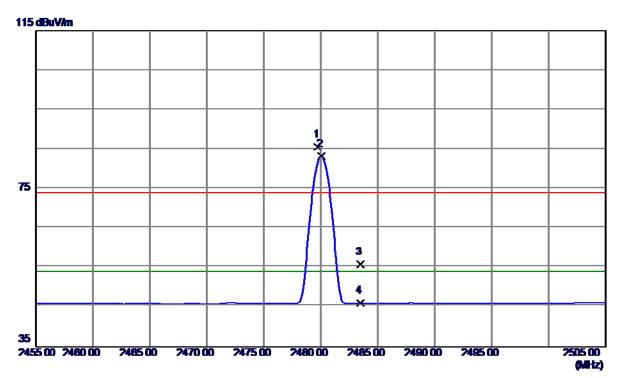
MHz dBuV/m dB dBuV/m dBuV/m dB Detector Comm	ment
1 * 7320. 6350 30. 81 12. 21 43. 02 54. 00 -10. 98 AVG	
2 7320. 7700 44. 74 12. 21 56. 95 74. 00 -17. 05 Peak	

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Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2479. 7500	52. 79	32. 70	85. 49	74.00	11.49	Peak	No limit
2 *	2480.0500	50. 48	32. 70	83. 18	54.00	29. 18	AVG	No limit
3	2483. 5000	23. 14	32. 71	55. 85	74.00	-18. 15	Peak	
4	2483. 5000	13. 27	32. 71	45. 98	54.00	-8.02	AVG	

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TX 2480MHz _CH39_1Mbps Test Mode: Vertical 80.0 dBuV/m 70 X 60 50 40 30 20 10 0.0 6100.00 8650.00 26500.00 MHz 1000.000 3550.00 11200.00 13750.00 16300.00 18850.00 21400.00

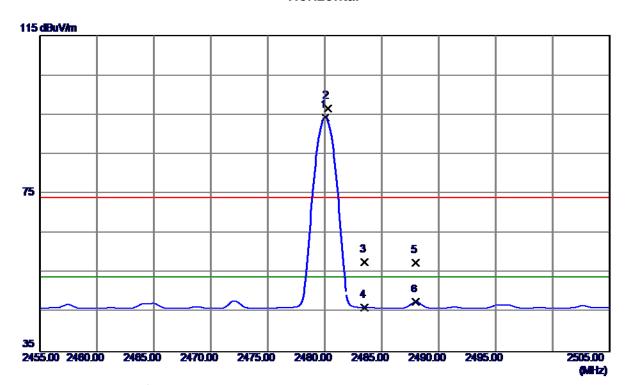
No.	Mk.	Freq.			Measure- ment	Limit	Margin				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment		
1		7440.005	47.51	12.40	59.91	74.00	-14.09	peak			
2	*	7440.640	38.41	12.40	50.81	54.00	-3.19	AVG			

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Horizontal



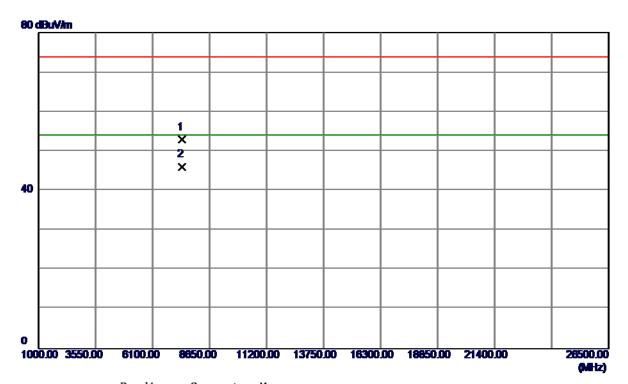
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2480. 0500	61. 73	32. 70	94. 43	54.00	40.43	AVG	No limit
2	2480. 2500	63. 86	32. 70	96. 56	74.00	22. 56	Peak	No limit
3	2483. 5000	24. 97	32. 71	57. 68	74.00	-16. 32	Peak	
4	2483. 5000	13. 49	32. 71	46. 20	54.00	−7.80	AVG	
5	2488. 0000	24. 78	32. 73	57. 51	74.00	-16. 49	Peak	
6	2488. 0000	14. 87	32. 73	47. 60	54.00	-6. 40	AVG	

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Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	7439. 1900	40. 59	12. 39	52. 98	74.00	-21. 02	Peak	
2 *	7439. 3350	33. 75	12. 39	46. 14	54.00	-7.86	AVG	

Report No.: BTL-FCCP-1-1704C344 Page 54 of 69





ATTACHMENT E - BANDWIDTH					

Report No.: BTL-FCCP-1-1704C344 Page 55 of 69

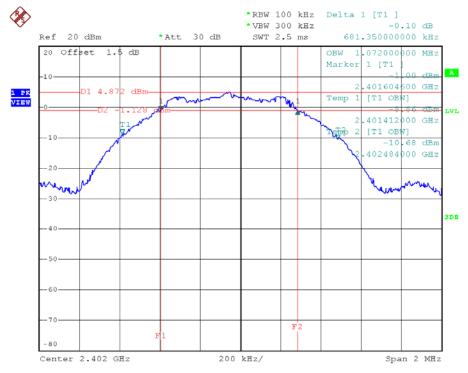




Test Mode: TX Mode

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2402	0.681	1.072	500	Pass
2440	0.712	1.076	500	Pass
2480	0.744	1.076	500	Pass

TX CH00

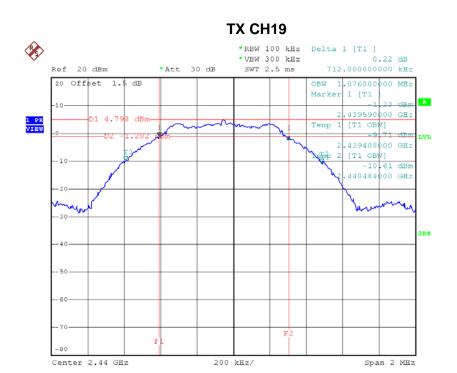


Date: 9.MAY.2017 11:11:26

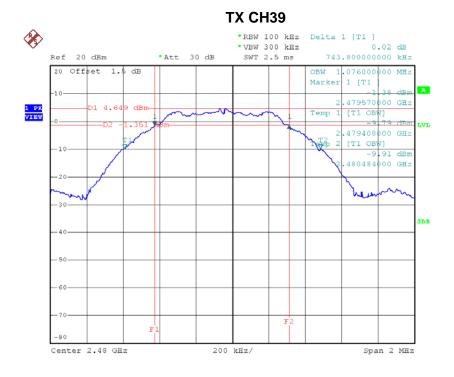
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Date: 9.MAY.2017 11:12:45



Date: 9.MAY.2017 11:13:57





ATTACHMENT F - MAXIMUM OUTPUT POWER TEST

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Test Mode: CH00, CH19, CH39 - 1Mbps

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	5.17	0.0033	30.00	1.00	Pass
2440	5.10	0.0032	30.00	1.00	Pass
2480	5.09	0.0032	30.00	1.00	Pass

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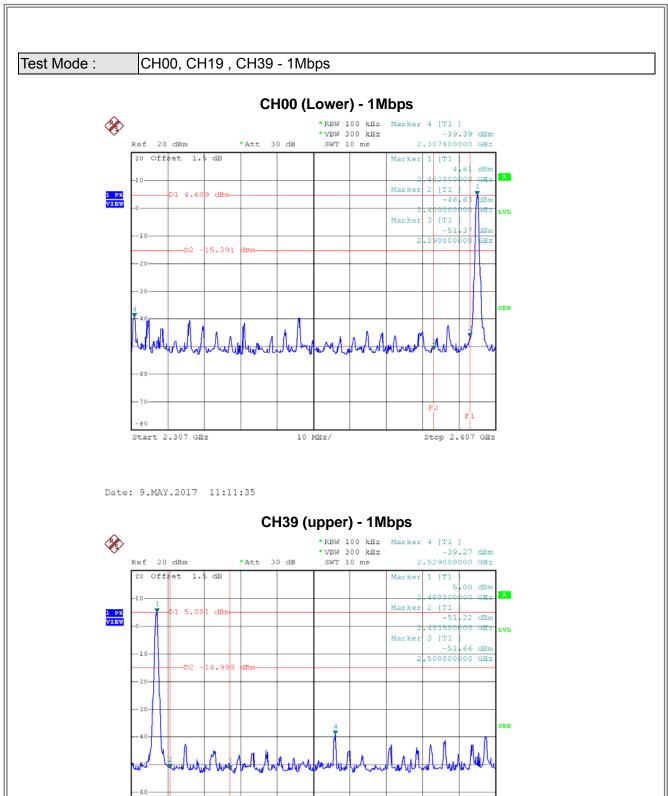


ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION

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Date: 9.MAY.2017 11:14:07

Start 2.473 GHz

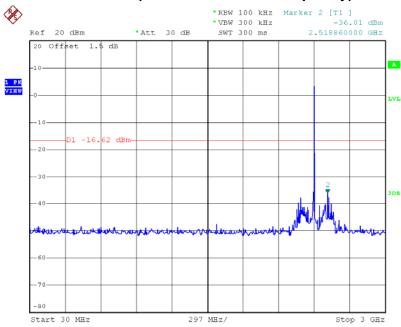
10 MHz/

Stop 2.573 GHz



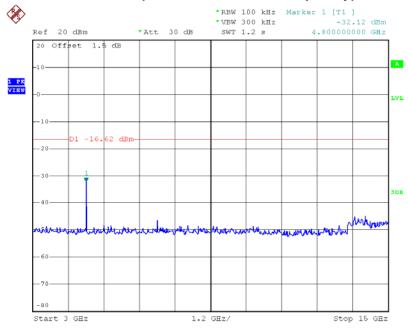






Date: 9.MAY.2017 11:11:49

CH00 (10 Harmonic of the frequency) 2



Date: 9.MAY.2017 11:11:58

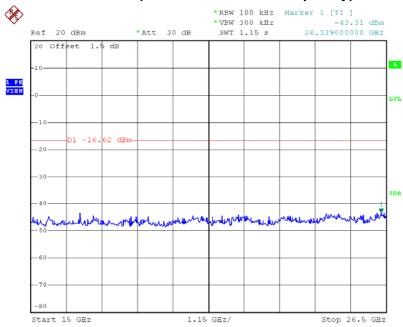
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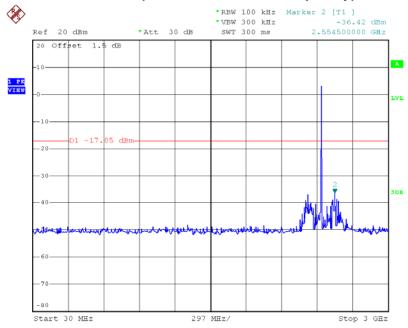
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Date: 9.MAY.2017 11:12:06

CH19 (10 Harmonic of the frequency) 1



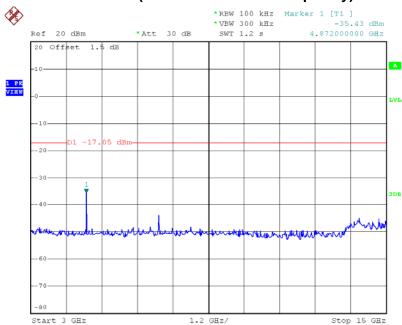
Date: 9.MAY.2017 11:12:59

Report No.: BTL-FCCP-1-1704C344



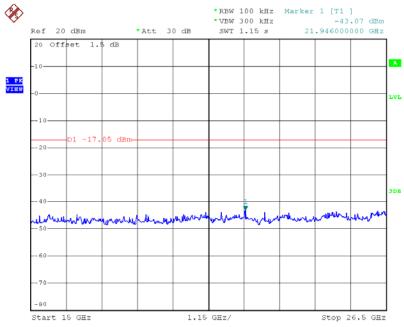






Date: 9.MAY.2017 11:13:08

CH19 (10 Harmonic of the frequency) 3



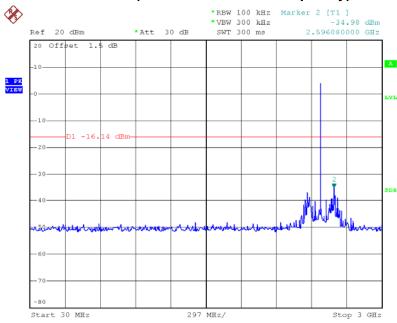
Date: 9.MAY.2017 11:13:16

Report No.: BTL-FCCP-1-1704C344



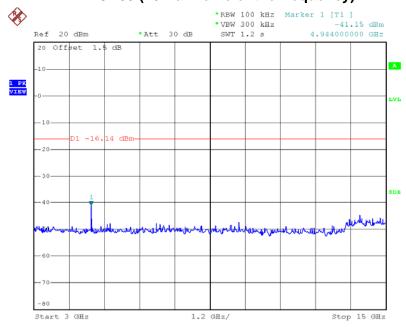






Date: 9.MAY.2017 11:14:21

CH39 (10 Harmonic of the frequency) 2

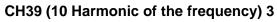


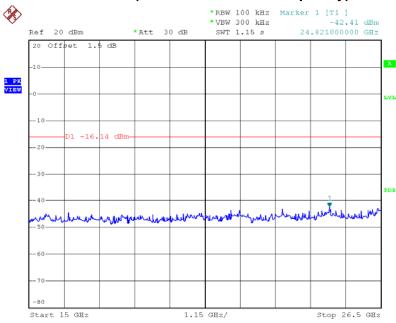
Date: 9.MAY.2017 11:14:29

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Date: 9.MAY.2017 11:14:38

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ATTACHMENT H - POWER SPECTRAL DENSITY T	EST
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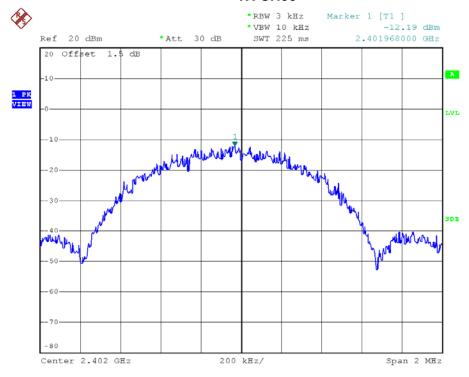




Test Mode: CH00, CH19, CH39 - 1Mbps

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Test Result
2402	-12.190	0.060	8.00	Pass
2440	-10.010	0.100	8.00	Pass
2480	-9.850	0.104	8.00	Pass

TX CH00



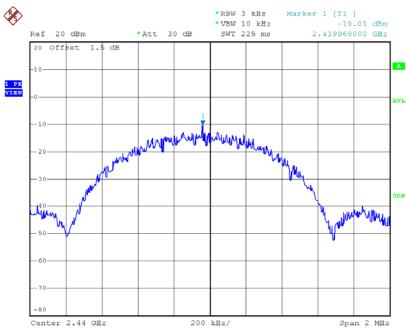
Date: 9.MAY.2017 11:12:12

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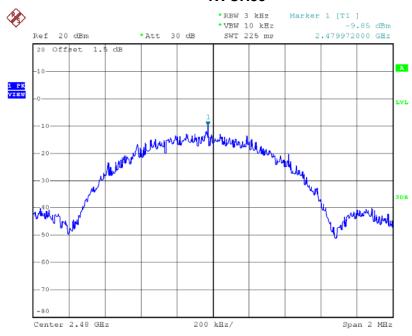






Date: 9.MAY.2017 11:13:22

TX CH39



Date: 9.MAY.2017 11:14:44