



FCC Radio Test Report

FCC ID: RWO-RZ090288

This report concerns (chec	k one): ⊠Original Grant
Series Model Applicant	 : 1810C079 : Notebook : RZ09-0288 : RZ09-02886 : Razer Inc. : 201 3rd Street, Suite 900, San Francisco, CA 94103 USA
Date of Test Issued Date	: Nov. 13, 2018 : Nov. 15, 2018 ~ Dec. 10, 2018 : Jan. 08, 2019 : BTL Inc.
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Certificate #5123.02

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BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. BTL shall have no liability for any declarations, inferences or generalizations drawn by the client or others from BTL issued reports.

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Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

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REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	R00 Original Issue.	
	R01 Updated the description of model difference, which does not affect the test results.	





1. GENERAL SUMMARY

Equipment: Notebook Brand Name: RAZER Test Model : RZ09-0288 Series Model: RZ09-02886 Applicant : Razer Inc. Manufacturer: Razer Inc.

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

: BYD Precision Manufacture Co.,Ltd. Factory

: No.3001, Baohe Road, Baolong industrial, Longgang Street, Longgang Zone, Address

Shenzhen

Date of Test : Nov. 15, 2018 ~ Dec. 10, 2018

Test Sample: Engineering Sample No.: D181110293 for conducted, D181110290 for radiated.

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-1-1810C079) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of A2LA according to the ISO/IEC 17025 quality assessment standard and technical standard(s).

Test results included in this report is only for the Bluetooth part.





2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

Applied Standard(s): FCC Part15, Subpart C (15.247)				
Standard(s) Section	Test Item	Judgment	Remark	
15.207	Conducted Emission	PASS		
15.247(d)	Antenna conducted Spurious Emission	PASS		
15.247 (a)(1)	Hopping Channel Separation	PASS		
15.247(a)(1)	Bandwidth	PASS		
15.247 (a)(1)	Maximum output power	PASS		
15.247(d) 15.209 15.205	Radiated Spurious Emission	PASS		
15.247 (a)(1)(iii)	Number of Hopping Frequency	PASS		
15.247 (a)(1)(iii)	Average Time Of Occupancy	PASS		
15.203	Antenna Requirement	PASS		

Note:

(1) "N/A" denotes test is not applicable in this test report





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 Registration Number for FCC: 357015

BTL's Designation Number for FCC: CN1240

2.2 MEASUREMENT UNCERTAINTY

The measurement uncertainty figures shall be calculated according the methods described in the ETSI TR 100 028 and shall correspond to an expansion factor (coverage factor) k=1.96 or k=2(which provide confidence levels of respectively 90% and 95.45% in the case where the distributions characterizing the actual measurement uncertainties are normal (Gaussian)). Measurement Uncertainty for a Level of Confidence of 95 %, U=2xUc(y).

The BTL measurement uncertainty as below table:

A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)
DG-C02	CISPR	150 kHz ~ 30 MHz	2.32

B. Radiated Measurement:

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

C. Other Measurement:

Test Item	Uncertainty
Conducted Spurious Emission	2.67 dB
Hopping Channel Separation	53.46 MHz
Output Power	0.95 dB
Number of Hopping Frequency	53.46 MHz
Temperature	0.08 °C
Humidity	1.5%

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	Notebook		
Brand Name	RAZER		
Test Model	RZ09-0288		
Series Model	RZ09-02886		
Model Difference(s)	The only difference between the two models is the graphics card. The two graphics cards are with identical electrical characteristics (pin compatible) and only differ in the model name of GPU with identical hardware/software. GPU used for model RZ09-0288 are N18E-G3-A1 and N18E-G2-A1, GPU used for model RZ09-02886 is N18E-G1-A1.		
Software Version	Windows 10		
Hardware Version	C2_MB		
	Operation Frequency	2402 MHz ~ 2480 MHz	
	Modulation Technology	GFSK(1Mbps) π/4-DQPSK(2Mbps)	
Output Power (Max.)	Bit Rate of Transmitter	8-DPSK(3Mbps)	
	Output Power Max.	3.83 dBm(1Mbps) 3.89 dBm(3Mbps)	
Power Source	1# DC Voltage supplied from AC/DC adapter. Model1: RC30-0238(200W) Model2: RC30-024801(230W) 2# Supplied from Li-ion battery Model: RC30-0248		
1# Model1: I/P: AC1 O/P: 19.9 Power Rating Model2: I/P:100- O/P:19.5 2# DC15.4V,5209m		10.26A 3.6A 50/60Hz 1.8A	

Note:

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





2. Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	27	2429	54	2456
01	2403	28	2430	55	2457
02	2404	29	2431	56	2458
03	2405	30	2432	57	2459
04	2406	31	2433	58	2460
05	2407	32	2434	59	2461
06	2408	33	2435	60	2462
07	2409	34	2436	61	2463
08	2410	35	2437	62	2464
09	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	70	2472
17	2419	44	2446	71	2473
18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	78	2480
25	2427	52	2454		
26	2428	53	2455		

3 Table for Filed Antenna:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
2	molex	2065720001	PIFA	N/A	3.06





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 Emission
Final Test Mode	Description
Mode 1	TX Mode

For Radiated Emission	
Final Test Mode	Description
Mode 1	TX Mode Note (1)

Note:

- (1) The measurements are performed at the high, middle, low available channels.
- (2) The measurements for Hopping Channel Separation, Bandwidth and Peak Output Power were tested during 1Mbps, 2Mbps and 3Mbps, the worst case are 1Mbps and 3Mbps, only worst case was documented.

3.3 TABLE OF PARAMETERS OF TEST 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 FHSS

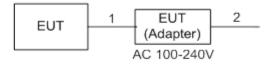
Test Software Version	DRTU		
Frequency (MHz)	2402	2441	2480
Parameters(1Mbps)	4	4	4
Parameters(3Mbps)	3	3	3

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3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



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	NO	NO	2m	DC Cable
2	NO	NO	1m	AC Cable

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4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

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

Frequency of Emission (MHz)	Conducted Limit (dBµV)	
Frequency of Emission (MHZ)	Quasi-peak	Average
0.15 - 0.50	66 to 56*	56 to 46*
0.50 - 5.0	56	46
5.0 - 30.0	60	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 equipment 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.

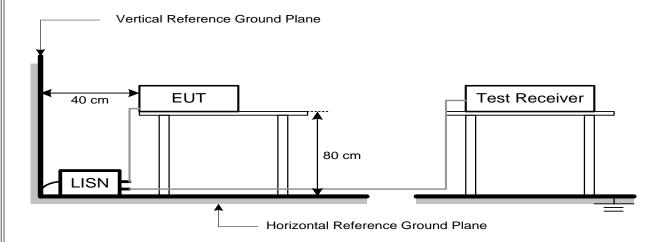
4.1.3 DEVIATION FROM TEST STANDARD

No deviation





4.1.4 TEST SETUP



4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical function (as a customer would normally use it), EUT was programmed to be in continuously transmitting/receiving data or hopping on mode.

4.1.6 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 53% Test Voltage: AC 120V/60Hz

4.1.7 TEST RESULTS

Please refer to the Appendix 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 150 kHz to 30 MHz.





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 (9 kHz-1000 MHz)

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 1000 MHz)

Frequency (MHz)	(dBuV/m) (at 3 meters)	
Frequency (Minz)	Peak	Average
Above 1000	74	54

Note:

- (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





Spectrum Parameter	Setting	
Attenuation	Auto	
Start Frequency	1000 MHz	
Stop Frequency	10th carrier harmonic	
RBW / VBW	1 MHz / 1 MHz for Dook 1 MHz / 10Hz for Average	
(emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average	

Spectrum Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz 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 1 GHz)
- b. The measuring distance of 3 m 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 1 GHz)
- 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 1 GHz.
- 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 1 GHz)
- 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 1 GHz)
- i. For the actual test configuration, please refer to the related Item -EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

No deviation

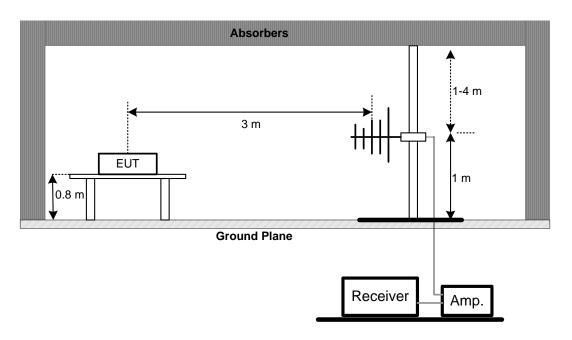
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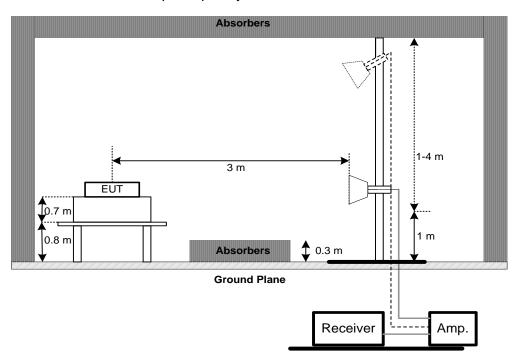


4.2.4 TEST SETUP

(A) Radiated Emission Test Set-Up Frequency 30 MHz-1000 MHz



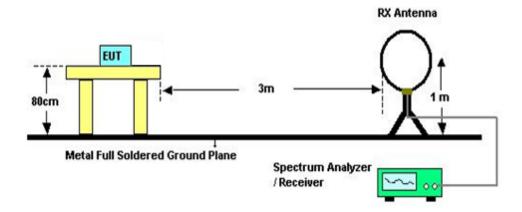
(B) Radiated Emission Test Set-Up Frequency Above 1 GHz







(C) For Radiated Emissions 9 kHz-30 MHz



4.2.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.2.6 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 60% Test Voltage: AC 120V/60Hz

4.2.7 TEST RESULTS (9 kHz TO 30 MHz)

Please refer to the Appendix 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.

4.2.8 TEST RESULTS (30 MHz TO 1000 MHz)

Please refer to the Appendix C.

4.2.9 TEST RESULTS (ABOVE 1000 MHz)

Please refer to the Appendix D.

Remark:

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





5. NUMBER OF HOPPING CHANNEL

5.1 APPLIED PROCEDURES

FCC Part15 (15.247), Subpart C			
Section	Test Item	Frequency Range (MHz)	Result
15.247(a)(1)(iii)	Number of Hopping Channel	2400-2483.5	PASS

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> Operating Frequency Range
RBW	100 kHz
VBW	100 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

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=100 kHz, VBW=100 kHz, Sweep time = Auto.

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: 25°C Relative Humidity: 56% Test Voltage: AC 120V/60Hz

5.1.6 TEST RESULTS

Please refer to the Appendix E

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6. AVERAGE TIME OF OCCUPANCY

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247), Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(1)(iii)	Average Time of Occupancy	0.4sec	2400-2483.5	PASS

6.1.1 TEST PROCEDURE

- a. The transmitter output (antenna port) was connected to the spectrum analyzer
- b. Set RBW of spectrum analyzer to 1 MHz and VBW to 1 MHz
- c. Use a video trigger with the trigger level set to enable triggering only on full pulses
- d. Sweep Time is more than once pulse time
- e. Set the center frequency on any frequency would be measure and set the frequency span to zero span
- f. Measure the maximum time duration of one single pulse
- g. Set the EUT for DH5, DH3 and DH1 packet transmitting
- h. Measure the maximum time duration of one single pulse
- i. DH5 Packet permit maximum 1600/79/6 = 3.37 hops per second in each channel (5 time slots TX, 1 time slot RX). So, the dwell time is the time duration of the pulse times $3.37 \times 31.6 = 106.6$ within 31.6 seconds
- j. DH3 Packet permit maximum 1600 / 79 / 4 = 5.06 hops per second in each channel (3 time slots TX, 1 time slot RX). So, the dwell time is the time duration of the pulse times $5.06 \times 31.6 = 160$ within 31.6 seconds
- k. DH1 Packet permit maximum 1600 / 79 /2 = 10.12 hops per second in each channel (1 time slot TX, 1 time slot RX). So, the dwell time is the time duration of the pulse times 10.12 x 31.6 = 320 within 31.6 seconds

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP

EUT		SPECTRUM	
		ANALYZER	





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: 25°C Relative Humidity: 56% Test Voltage:AC 120V/60Hz

6.1.6 TEST RESULTS

Please refer to the Appendix F





7. HOPPING CHANNEL SEPARATION MEASUREMENT

7.1 APPLIED PROCEDURES / LIMIT

Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth or Channel Separation
RBW	30 kHz
VBW	100 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

7.1.1 TEST PROCEDURE

- a. The EUT must have its hopping function enabled
- b. Span = wide enough to capture the peaks of two adjacent channels Resolution (or IF) Bandwidth (RBW) ≥ 1% of the span Video (or Average) Bandwidth (VBW) ≥ RBW Sweep = Auto Detector function = Peak Trace = Max Hold

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

7.1.4 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 56% Test Voltage: AC 120V/60Hz

7.1.5 TEST RESULTS

Please refer to the Appendix G





8. BANDWIDTH TEST

8.1 APPLIED PROCEDURES

FCC Part15 (15.247) , Subpart C			
Section Test Item		Frequency Range (MHz)	
15.247(a)(2)	Bandwidth	2400-2483.5	

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth or Channel Separation
RBW	30 kHz (20dB Bandwidth) / 30 kHz (Channel Separation)
VBW	100 kHz (20dB Bandwidth) / 100 kHz (Channel Separation)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

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= 30 kHz, VBW=100 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: 25°C Relative Humidity: 56% Test Voltage: AC 120V/60Hz

8.1.6 TEST RESULTS

Please refer to the Appendix H

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9. MAXIMUM OUTPUT POWER

9.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247), Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(1)	Maximum Output Power	0.125Watt or 21dBm	2400-2483.5	PASS

Note: Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB band width of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

9.1.1 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= 1 MHz/3 MHz, VBW= 1 MHz/3 MHz, Sweep time = Auto.

9.1.2 DEVIATION FROM STANDARD

No deviation.

9.1.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

9.1.4 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.

9.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 56% Test Voltage: AC 120V/60Hz

9.1.6 TEST RESULTS

Please refer to the Appendix I

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10. ANTENNA CONDUCTED SPURIOUS EMISSION

10.1 APPLIED PROCEDURES / LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator 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 the transmitter demonstrates compliance with the peak Output Power limits. If the transmitter complies with the Output Power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

10.1.1 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= 100 kHz, VBW=100 kHz, Sweep time = Auto.

10.1.2 DEVIATION FROM STANDARD

No deviation.

10.1.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

10.1.4 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.

10.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 56% Test Voltage: AC 120V/60Hz

10.1.6 TEST RESULTS

Please refer to the Appendix J

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11. MEASUREMENT INSTRUMENTS LIST

	Conducted Emission Measurement						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	EMI Test Receiver	R&S	ESCI	100382	Mar. 11, 2019		
2	LISN	EMCO	3816/2	52765	Mar. 11, 2019		
3	50Ω Terminator	SHX	TF2-3G-A	8122901	Mar. 11, 2019		
4	TWO-LINE V-NETWORK	R&S	ENV216	101447	Mar. 11, 2019		
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A		
6	Cable	N/A	RG223	12m	Mar. 23, 2019		

	Radiated Emission Measurement - 9kHz TO 30 MHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	Loop Antenna	EM	EM-6876-1	230	Feb. 07, 2019	
2	Cable	N/A	RG 213/U	C-102	Jun. 01, 2019	
3	EMI Test Receiver	R&S	ESCI	100382	Mar. 11, 2019	
4	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A	

	Radiated Emission Measurement – 30 MHz TO 1000 MHz						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 11, 2019		
2	Amplifier	HP	8447D	2944A09673	Aug. 11, 2019		
3	Receiver	Agilent	N9038A	MY52130039	Aug. 11, 2019		
4	Cable	emci	LMR-400(30MHz-1 GHz)(8m+5m)	N/A	May 25, 2019		
5	Controller	CT	SC100	N/A	N/A		
6	Controller	MF	MF-7802	MF780208416	N/A		
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A		





	Radiated Emission Measurement - Above 1 GHz						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	Double Ridged Guide Antenna	ETS	3115	75789	Mar. 11, 2019		
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 30, 2019		
3	Amplifier	Agilent	8449B	3008A02274	Mar. 11, 2019		
4	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 11, 2019		
5	Receiver	Agilent	N9038A	MY52130039	Aug. 11, 2019		
6	Controller	СТ	SC100	N/A	N/A		
7	Controller	MF	MF-7802	MF780208416	N/A		
8	Cable	mitron	B10-01-01-12M	18072744	Jul. 30, 2019		
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A		

		Number o	of Hopping Chann	el	
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 11, 2019

		Average	Time of Occupand	ру	
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 11, 2019

	Hopping Channel Separation Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 11, 2019	

	Bandwidth					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 11, 2019	

		Maxim	um output power		
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 11, 2019





	Antenna Conducted Spurious Emission					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 11, 2019	

Remark "N/A" denotes no model name, serial no. or calibration specified.
All calibration period of equipment list is one year.





APPENDIX A - CONDUCTED EMISSION	

Report No.: BTL-FCCP-1-1810C079

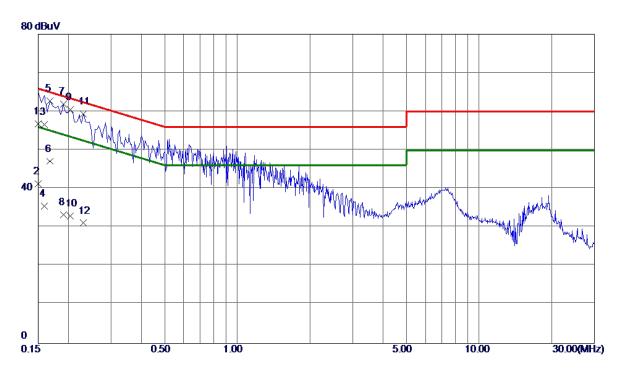
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Test Mode: TX Mode(Adapter: RC30-024801)

Line



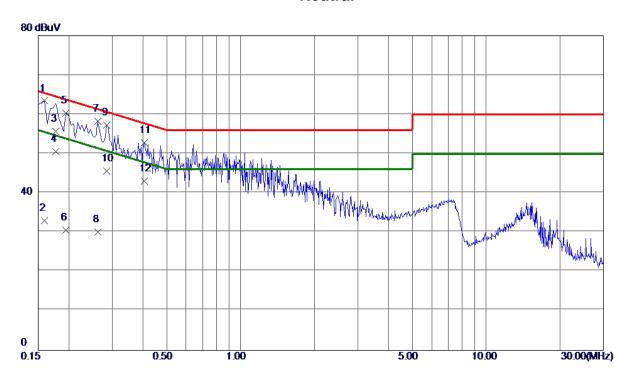
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0. 1500	47.00	9.82	56.82	66.00	-9. 18	QP	
2	0.1500	31.50	9.82	41.32	56.00	-14.68	AVG	
3	0. 1590	46.80	9.82	56.62	65. 52	-8. 90	QP	
4	0. 1590	25. 70	9.82	35. 52	55. 52	-20.00	AVG	
5	0.1680	52. 92	9.82	62.74	65.06	-2.32	Peak	
6	0.1680	37. 30	9.82	47. 12	55.06	-7.94	AVG	
7 *	0. 1905	52.04	9.82	61.86	64.01	-2. 15	Peak	
8	0. 1905	23. 50	9.82	33. 32	54.01	-20.69	AVG	
9	0.2040	50.66	9.82	60. 48	63.45	-2. 97	Peak	
10	0.2040	23. 20	9.82	33. 02	53.45	-20.43	AVG	
11	0.2310	49. 53	9.82	59. 35	62.41	-3.06	Peak	
12	0. 2310	21. 30	9. 82	31. 12	52.41	-21. 29	AVG	





Test Mode: TX Mode(Adapter: RC30-024801)

Neutral



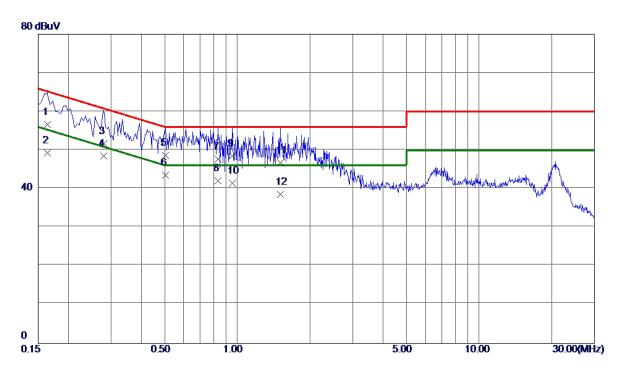
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0.1590	53. 53	9. 91	63.44	65. 52	-2 . 0 8	Peak	
2	0.1590	23. 10	9. 91	33. 01	55. 52	-22.51	AVG	
3	0.1770	45.81	9. 91	55.72	64.63	-8. 91	QP	
4	0.1770	40.61	9. 91	50. 52	54.63	-4.11	AVG	
5	0. 1949	50. 34	9. 91	60. 25	63.83	-3. 58	Peak	
6	0. 1949	20.60	9. 91	30. 51	53.83	-23. 32	AVG	
7	0. 2625	48. 28	9. 92	58. 20	61.35	-3. 15	Peak	
8	0. 2625	20. 11	9. 92	30. 03	51.35	-21. 32	AVG	
9	0. 2850	47.33	9. 93	57. 26	60. 67	-3.41	Peak	
10	0. 2850	35. 59	9. 93	45. 52	50. 67	-5. 15	AVG	
11	0.4065	42.80	9. 95	52. 75	57.72	-4. 97	Peak	
12	0.4065	33. 10	9. 95	43. 05	47.72	-4. 67	AVG	





Test Mode: TX Mode (Adapter: RC30-0238)

Line



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0. 1635	46.80	9.82	56.62	65. 28	-8. 66	QP	
2	0. 1635	39.40	9.82	49. 22	55. 28	-6. 06	AVG	
3	0. 2805	41.80	9.82	51.62	60.80	-9. 18	QP	
4 *	0. 2805	38. 60	9.82	48. 42	50.80	-2. 38	AVG	
5	0.5055	38. 90	9. 79	48.69	56.00	-7.31	QP	
6	0. 5055	33.70	9. 79	43.49	46.00	-2. 51	AVG	
7	0.8340	37.70	9. 91	47.61	56.00	-8. 39	QP	
8	0.8340	32. 20	9. 91	42.11	46.00	-3.89	AVG	
9	0.9510	38. 50	9. 92	48. 42	56.00	-7. 58	QP	
10	0.9510	31. 50	9. 92	41.42	46.00	-4. 58	AVG	
11	1.5045	36.80	9. 96	46.76	56.00	-9. 24	QP	
12	1. 5045	28. 60	9. 96	38. 56	46.00	-7.44	AVG	



0.150



30.000

Test Mode: TX Mode (Adapter: RC30-0238)

0.5

(MHz)

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1590	46.90	9.91	56.81	65.52	-8.71	QP	
2	0.1590	31.00	9.91	40.91	55.52	-14.61	AVG	
3	0.1680	48.50	9.91	58.41	65.06	-6.65	QP	
4	0.1680	35.27	9.91	45.18	55.06	-9.88	AVG	
5	0.1770	45.80	9.92	55.72	64.63	-8.91	QP	
6	0.1770	27.40	9.92	37.32	54.63	-17.31	AVG	
7	0.2220	43.10	9.92	53.02	62.74	-9.72	QP	
8	0.2220	30.70	9.92	40.62	52.74	-12.12	AVG	
9	0.4425	37.80	9.94	47.74	57.01	-9.27	QP	
10	0.4425	22.60	9.94	32.54	47.01	-14.47	AVG	
11	1.6215	38.90	10.16	49.06	56.00	-6.94	QP	
12 *	1.6215	30.10	10.16	40.26	46.00	-5.74	AVG	





APPENDIX B - RADIATED EMISSION (9 KHZ-30 MHZ)

Report No.: BTL-FCCP-1-1810C079

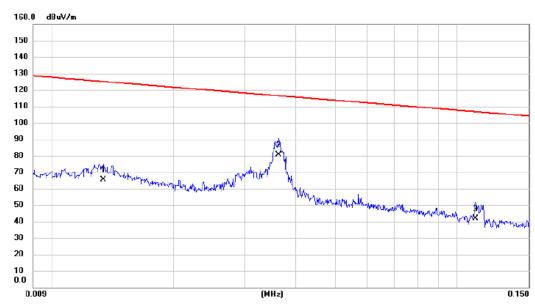
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Test Mode: TX Mode(Adapter: RC30-024801)

Ant 0°

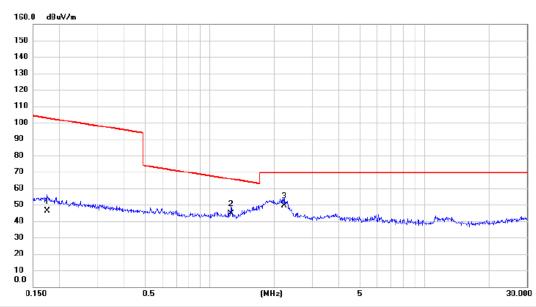


No. Mk.	Freq.	Reading Level	Correct Factor	Measure ment	- Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.0134	44.30	20.94	65.24	125.06	-59.82	AVG	
2 *	0.0363	60.70	19.76	80.46	116.41	-35.95	AVG	
3	0.1110	23.50	18.18	41.68	106.70	-65.02	AVG	





Ant 0°

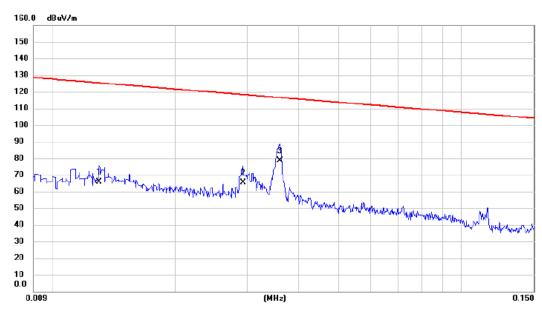


No. Mk.	Freq.	Reading Level		Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.1750	28.80	17.21	46.01	102.75	-56.74	AVG	
2	1.2555	27.80	16.73	44.53	65.63	-21.10	QP	
3 *	2.2132	32.50	16.99	49.49	69.54	-20.05	QP	





Ant 90°



No. Mk.	Freq.		Correct Factor	Measure ment	- Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.0130	44.70	21.00	65.70	125.33	-59.63	AVG	
2	0.0293	45.50	19.86	65.36	118.27	-52.91	AVG	
3 *	0.0360	58.70	19.76	78.46	116.48	-38.02	AVG	

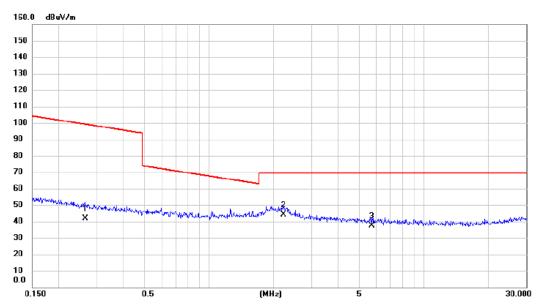
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Ant 90°



No. Mk.	Freq.			Measure- ment		Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.2644	24.80	17.05	41.85	99.16	-57.31	AVG	
2 *	2.2132	27.40	16.99	44.39	69.54	-25.15	QP	
3	5.7437	22.30	15.04	37.34	69.54	-32.20	QP	





Ant 0°

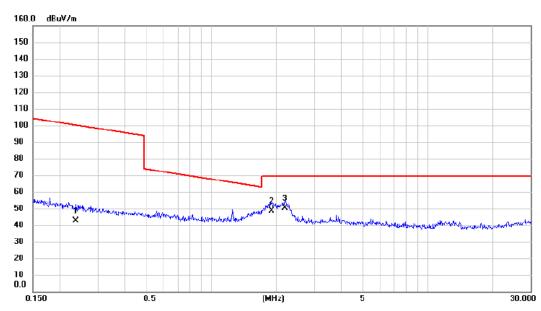


No. Mk.	Freq.		Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.0130	44.61	21.00	65.61	125.33	-59.72	AVG	
2	0.0317	47.10	19.82	66.92	117.58	-50.66	AVG	
3 *	0.0388	61.50	19.72	81.22	115.83	-34.61	AVG	





Ant 0°

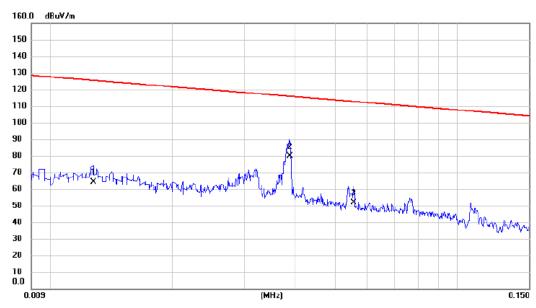


No. Mk.	Freq.		Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.2366	25.40	17.09	42.49	100.13	-57.64	AVG	
2	1.9080	31.70	17.06	48.76	69.54	-20.78	QP	
3 *	2.1898	33.30	17.01	50.31	69.54	-19.23	QP	





Ant 90°

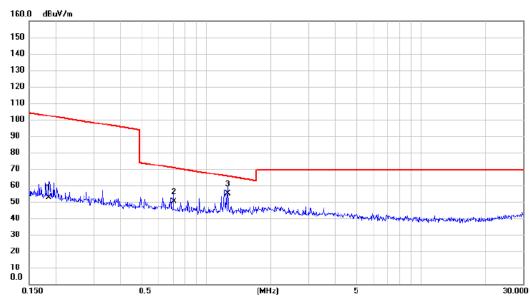


No. Mk.	Freq.	Reading Level		Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.0128	43.10	21.03	64.13	125.46	-61.33	AVG	
2 *	0.0388	60.20	19.72	79.92	115.83	-35.91	AVG	
3	0.0557	32.30	19.42	51.72	112.69	-60.97	AVG	





Ant 90°



No. Mk.	Freq.		Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.1853	35.40	17.19	52.59	102.25	-49.66	AVG	
2	0.7047	33.40	16.90	50.30	70.64	-20.34	QP	
3 *	1.2621	38.20	16.73	54.93	65.58	-10.65	QP	





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

Report No.: BTL-FCCP-1-1810C079

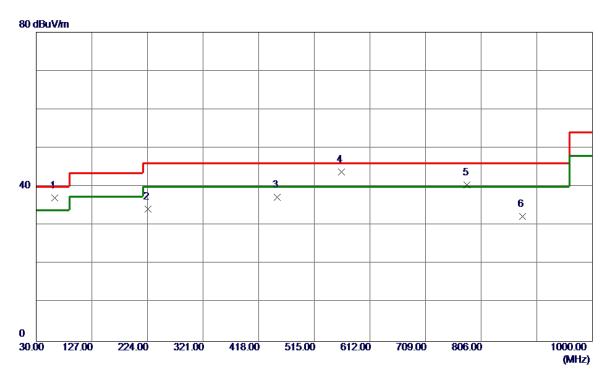
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Test Mode: TX 2402 MHz _CH00_1Mbps(Adapter: RC30-024801)

Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	62.4950	53. 18	-16. 11	37.07	40.00	-2. 93	QP	
2	224.9700	49. 18	-14.90	34. 28	46.00	-11.72	Peak	
3	450.0100	44.62	-7.41	37. 21	46.00	-8.79	Peak	
4 *	562. 5300	49. 45	-5. 67	43.78	46.00	-2.22	Peak	
5	781.7500	42. 59	-2. 14	40. 45	46.00	-5. 55	Peak	
6	877. 7800	33. 42	-1. 14	32. 28	46.00	-13.72	Peak	

Report No.: BTL-FCCP-1-1810C079

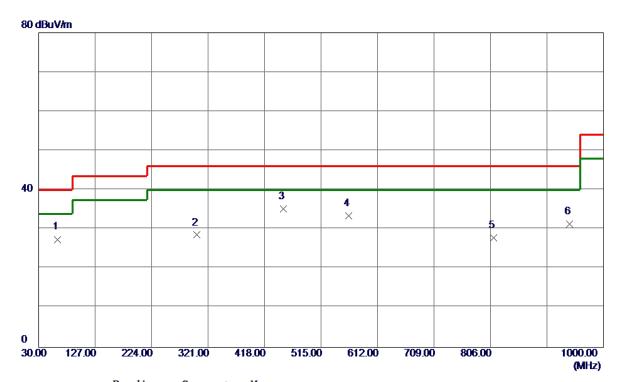
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Test Mode: TX 2402 MHz _CH00_1Mbps(Adapter: RC30-024801)

Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	62.4950	43. 55	-16. 11	27.44	40.00	-12. 56	Peak	
2	301. 1150	38. 95	-10. 39	28. 56	46.00	-17.44	Peak	
3 *	450.0100	42. 57	-7.41	35. 16	46.00	-10.84	Peak	
4	562. 5300	39. 10	-5. 67	33. 43	46.00	-12.57	Peak	
5	811. 3350	29. 09	-1. 22	27.87	46.00	-18. 13	Peak	
6	941.8000	30. 33	1. 08	31.41	46.00	-14.59	Peak	

Report No.: BTL-FCCP-1-1810C079

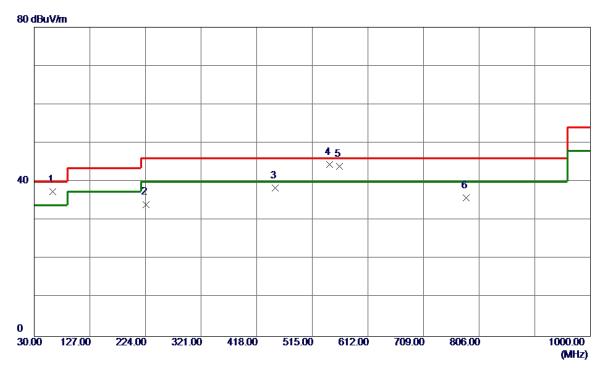
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Test Mode: TX 2441 MHz _CH39_1Mbps(Adapter: RC30-024801)

Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	62.4950	53. 51	-16. 11	37.40	40.00	-2.60	Peak	
2	224.9700	49.06	-14.90	34. 16	46.00	-11.84	Peak	
3	450.0100	45.85	-7.41	38. 44	46.00	-7. 56	Peak	
4 *	545. 5550	50. 19	-5. 74	44.45	46.00	-1.55	Peak	
5	562. 5300	49.64	-5. 67	43.97	46.00	-2.03	Peak	
6	783. 2050	37. 92	-2. 05	35. 87	46.00	-10. 13	Peak	

Report No.: BTL-FCCP-1-1810C079

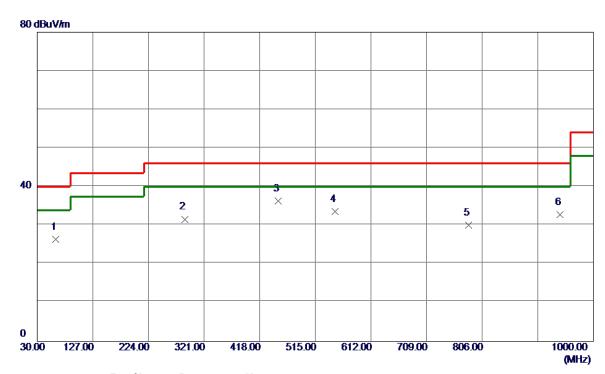
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Test Mode: TX 2441 MHz _CH39_1Mbps(Adapter: RC30-024801)

Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	62.0100	42.40	-16. 02	26. 38	40.00	-13.62	Peak	
2	287.0500	42.67	-11.07	31. 60	46.00	-14.40	Peak	
3 *	450.0100	43.68	-7.41	36. 27	46.00	-9.73	Peak	
4	549.9200	39. 04	-5. 47	33. 57	46.00	-12.43	Peak	
5	782.7199	32. 12	-2.08	30.04	46.00	-15. 96	Peak	
6	941.8000	31.65	1. 08	32.73	46.00	-13. 27	Peak	

Report No.: BTL-FCCP-1-1810C079

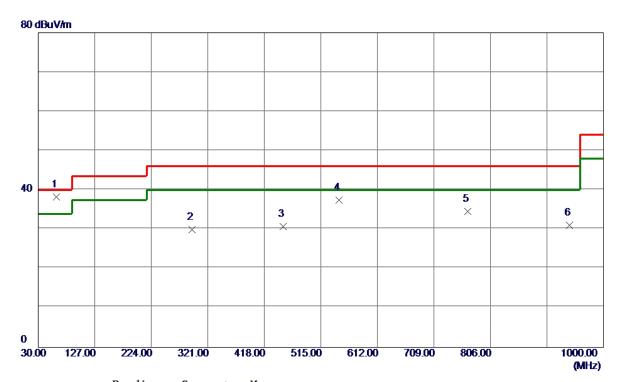
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Test Mode: TX 2480 MHz _CH78_1Mbps (Adapter: RC30-024801)

Vertical



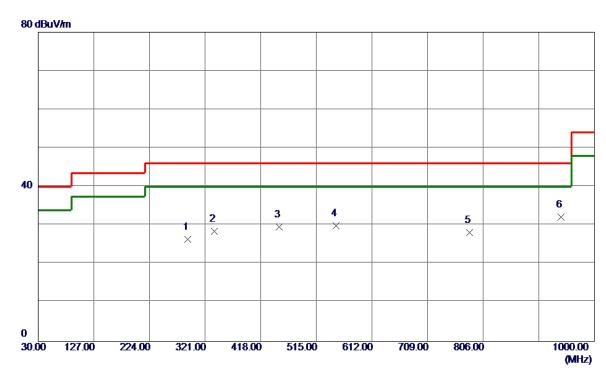
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	61. 5250	54. 21	-15.94	38. 27	40.00	-1.73	Peak	
2	293.8400	40.63	-10.73	29. 90	46.00	-16. 10	Peak	
3	450.0100	38. 13	-7.41	30.72	46.00	-15. 28	Peak	
4	546. 5250	43.06	-5. 68	37. 38	46.00	-8. 62	Peak	
5	766. 7150	37. 57	-3.04	34. 53	46.00	-11.47	Peak	
6	941.8000	30. 02	1.08	31. 10	46.00	-14. 90	Peak	





Test Mode: TX 2480 MHz _CH78_1Mbps (Adapter: RC30-024801)

Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	290. 9300	37. 31	-10.90	26. 41	46.00	-19. 59	Peak	
2	337.4900	39. 36	-10.90	28.46	46.00	-17.54	Peak	
3	450.0100	37.06	-7.41	29.65	46.00	-16. 35	Peak	
4	549. 4350	35. 49	-5. 50	29. 99	46.00	-16.01	Peak	
5	782.7199	30. 17	-2.08	28. 09	46.00	-17.91	Peak	
6 *	941.8000	31. 02	1. 08	32. 10	46.00	-13. 90	Peak	

Report No.: BTL-FCCP-1-1810C079

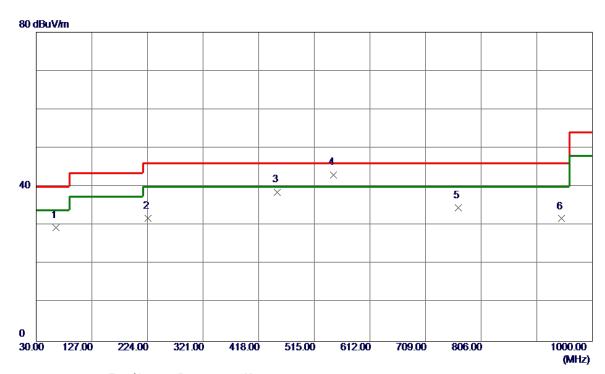
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Test Mode: TX 2402 MHz_CH00_1Mbps (Adapter: RC30-0238)

Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	64. 4350	45. 94	-16. 44	29. 50	40.00	-10. 50	Peak	
2	224.9700	46.71	-14. 90	31.81	46.00	-14. 19	Peak	
3	450.0100	46.05	-7.41	38. 64	46.00	-7. 36	Peak	
4 *	547.9800	48.71	-5. 59	43. 12	46.00	-2.88	Peak	
5	765. 7450	37.69	-3. 10	34. 59	46.00	-11.41	Peak	
6	946. 1650	30. 50	1. 26	31.76	46.00	-14. 24	Peak	

Report No.: BTL-FCCP-1-1810C079

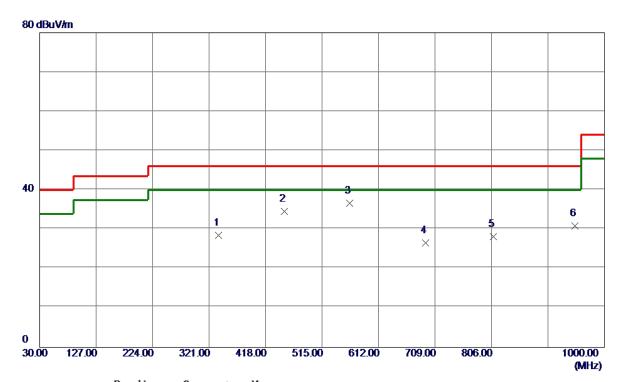
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Test Mode: TX 2402 MHz_CH00_1Mbps (Adapter: RC30-0238)

Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	337.4900	39. 36	-10. 90	28. 46	46.00	-17.54	Peak	
2	450.0100	42.00	-7.41	34. 59	46.00	-11.41	Peak	
3 *	562. 5300	42.34	-5. 67	36. 67	46.00	-9. 33	Peak	
4	692. 9950	29.66	-3. 09	26. 57	46.00	-19.43	Peak	
5	808. 9099	29. 36	-1. 18	28. 18	46.00	-17.82	Peak	
6	949. 0750	29. 49	1. 37	30.86	46.00	-15. 14	Peak	

Report No.: BTL-FCCP-1-1810C079

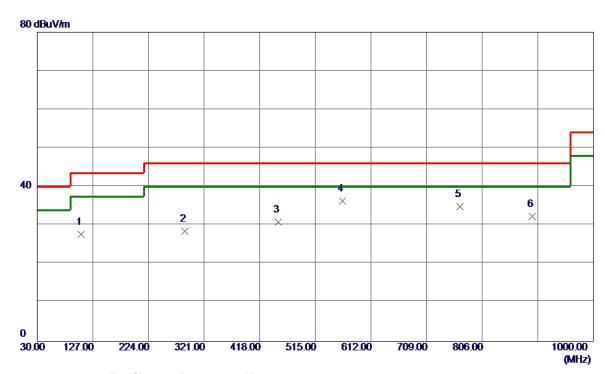
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Test Mode: TX 2441 MHz_CH39_1Mbps (Adapter: RC30-0238)

Vertical



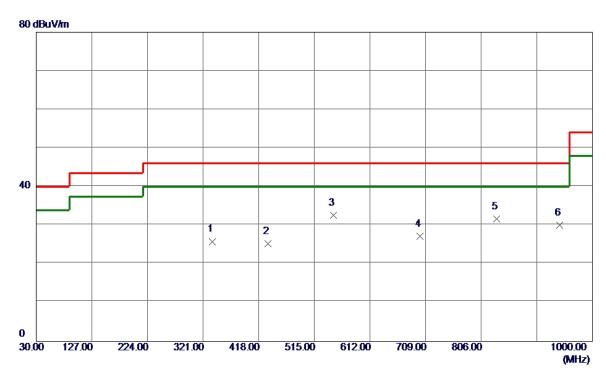
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	106. 1450	44.80	-17.05	27.75	43.50	-15.75	Peak	
2	288. 0200	39. 53	-11.03	28. 50	46.00	-17. 50	Peak	
3	450.0100	38. 31	-7.41	30. 90	46.00	-15. 10	Peak	
4 *	562. 5300	41.97	-5. 67	36. 30	46.00	-9.70	Peak	
5	767. 2000	37.86	-3. 01	34.85	46.00	-11. 15	Peak	
6	893. 7850	33. 03	-0. 75	32. 28	46.00	-13.72	Peak	





Test Mode: TX 2441 MHz_CH39_1Mbps (Adapter: RC30-0238)

Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	337.4900	36. 74	-10. 90	25. 84	46.00	-20. 16	Peak	
2	434.0050	33. 25	-8. 04	25. 21	46.00	-20.79	Peak	
3 *	547. 9800	38. 27	-5. 59	32.68	46.00	-13. 32	Peak	
4	699. 7849	30. 03	-2.76	27. 27	46.00	-18.73	Peak	
5	832.6750	33. 21	-1.55	31.66	46.00	-14.34	Peak	
6	943. 2550	29. 01	1. 14	30. 15	46.00	-15.85	Peak	

Report No.: BTL-FCCP-1-1810C079

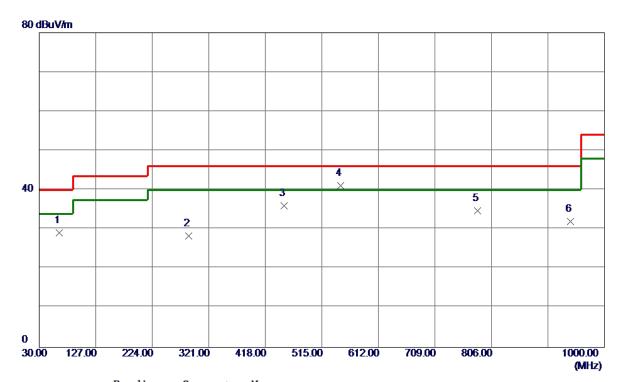
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Test Mode: TX 2480 MHz_CH78_1Mbps (Adapter: RC30-0238)

Vertical



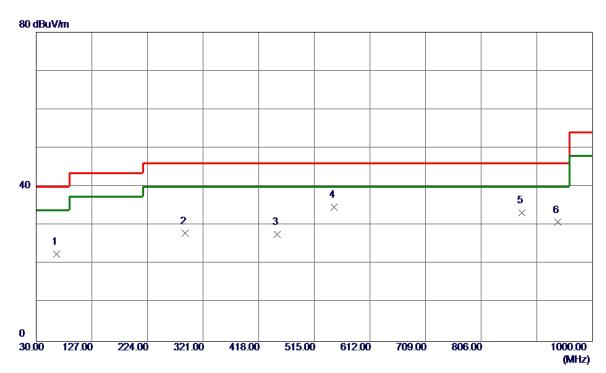
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	64.4350	45. 58	-16.44	29. 14	40.00	-10.86	Peak	
2	286. 5650	39. 46	-11.09	28. 37	46.00	-17.63	Peak	
3	450.0100	43. 39	-7.41	35. 98	46.00	-10.02	Peak	
4 *	547.0100	46.83	-5. 65	41. 18	46.00	-4.82	Peak	
5	782.7199	36.86	-2.08	34. 78	46.00	-11. 22	Peak	
6	941.8000	30. 90	1.08	31. 98	46.00	-14.02	Peak	





Test Mode: TX 2480 MHz_CH78_1Mbps (Adapter: RC30-0238)

Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	65.8900	39. 23	-16. 68	22. 55	40.00	-17.45	Peak	
2	289. 9600	38.88	-10.96	27. 92	46.00	−18. 08	Peak	
3	450.0100	35. 10	-7.41	27. 69	46.00	-18. 31	Peak	
4 *	549. 4350	40. 21	-5. 50	34.71	46.00	-11. 29	Peak	
5	877. 2950	34. 37	-1. 15	33. 22	46.00	-12.78	Peak	
6	939.8600	29.80	1.00	30. 80	46.00	-15. 20	Peak	

Report No.: BTL-FCCP-1-1810C079

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APPENDIX D - RADIATED EMISSION (ABOVE 10	000 MHZ)

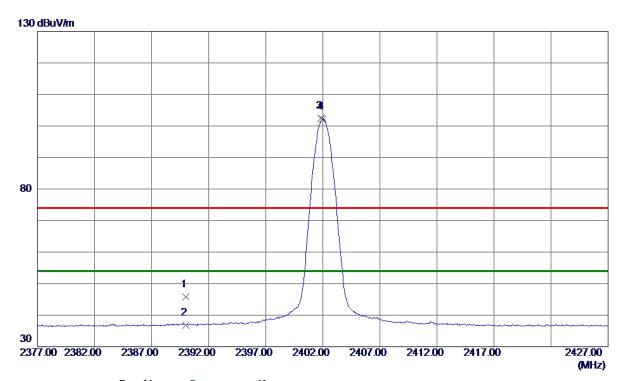
Report No.: BTL-FCCP-1-1810C079

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Vertical

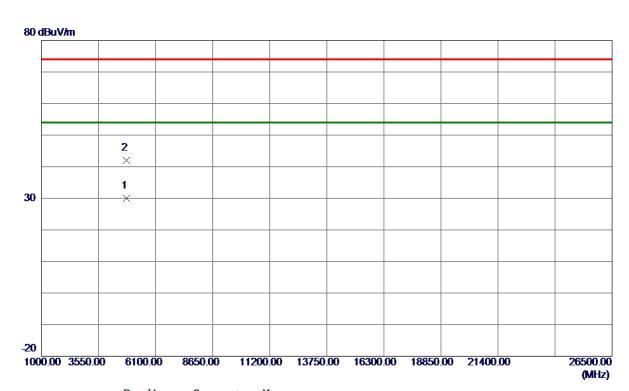


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	39. 23	6. 62	45.85	74.00	-28. 15	Peak	
2	2390.0000	30. 27	6. 62	36.89	54.00	-17.11	AVG	
3	2401.8500	95. 80	6. 62	102.42	74.00	28.42	Peak	No Limit
4 *	2402. 0250	95. 57	6. 62	102. 19	54.00	48. 19	AVG	No Limit





Vertical

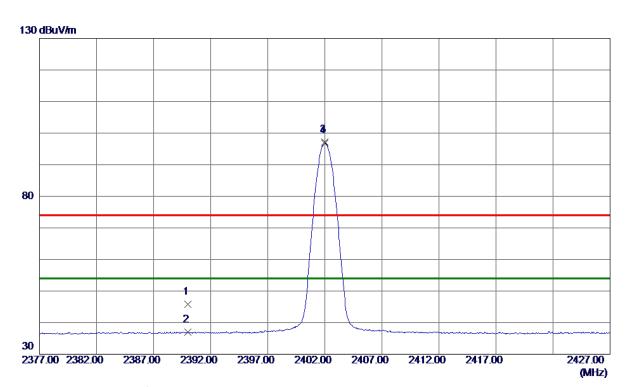


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4803. 2310	26. 45	3. 53	29. 98	54.00	-24.02	AVG	
2	4803. 2980	38. 45	3. 53	41.98	74.00	-32.02	Peak	





Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	39. 09	6. 62	45.71	74.00	-28.29	Peak	
2	2390.0000	30. 35	6. 62	36. 97	54.00	-17.03	AVG	
3	2402.0250	90. 50	6. 62	97. 12	74.00	23. 12	Peak	No Limit
4 *	2402. 0250	90. 17	6. 62	96. 79	54.00	42.79	AVG	No Limit





Horizontal

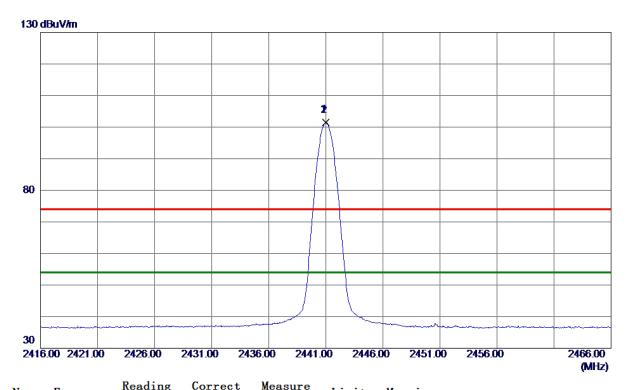


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4803. 1650	38.77	3. 52	42. 29	74.00	-31.71	Peak	
2 *	4803.8150	26. 50	3. 53	30. 03	54.00	-23.97	AVG	





Vertical

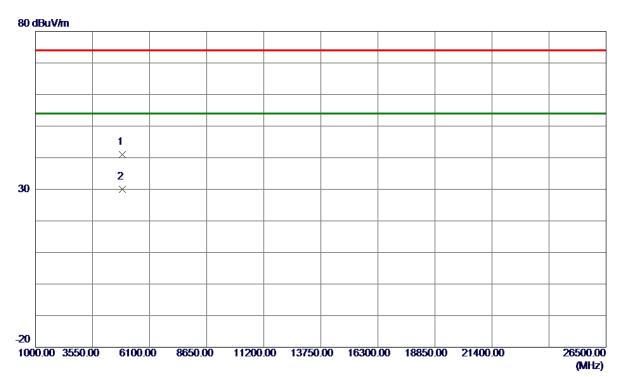


No.	Freq.	Level	Factor	measure	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2441.0000	95. 07	6. 61	101.68	74.00	27.68	Peak	No Limit
2 *	2441. 0250	94.85	6. 61	101.46	54.00	47.46	AVG	No Limit





Vertical

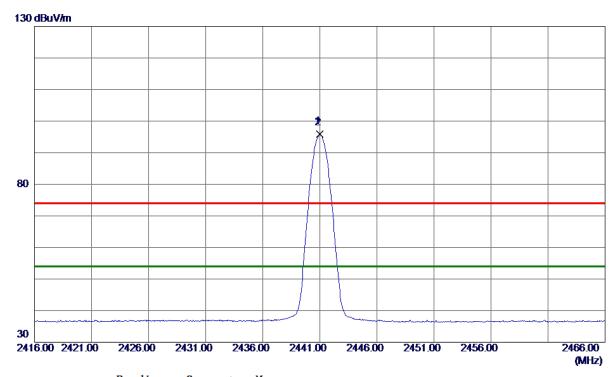


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4887. 1000	37. 20	3.71	40.91	74.00	-33. 09	Peak	
2 *	4890, 4100	26. 36	3. 72	30. 08	54, 00	-23, 92	AVG	





Horizontal

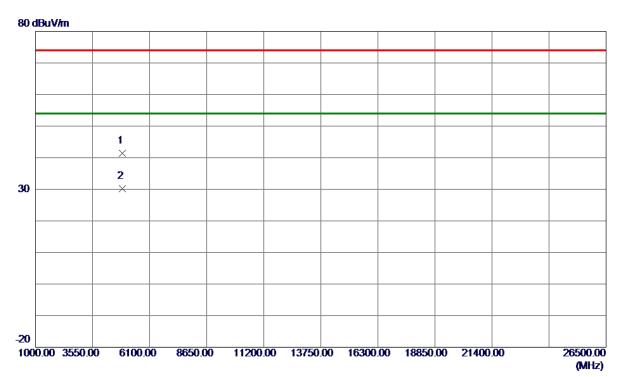


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2440. 9750	89. 35	6. 61	95. 96	74.00	21.96	Peak	No Limit
2 *	2441. 0000	89. 09	6. 61	95. 70	54.00	41.70	AVG	No Limit





Horizontal

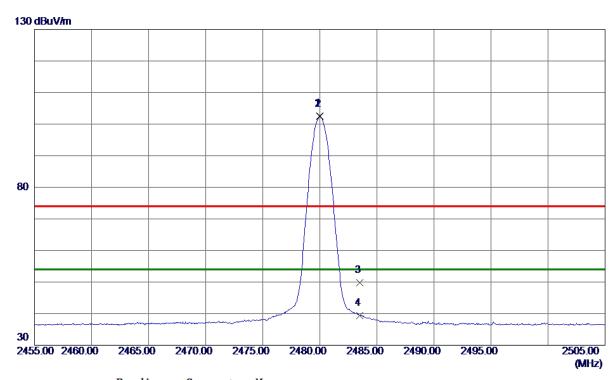


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4887. 5600	37.74	3.71	41.45	74.00	-32.55	Peak	
2 *	4889, 6700	26. 57	3. 72	30, 29	54, 00	-23, 71	AVG	





Vertical

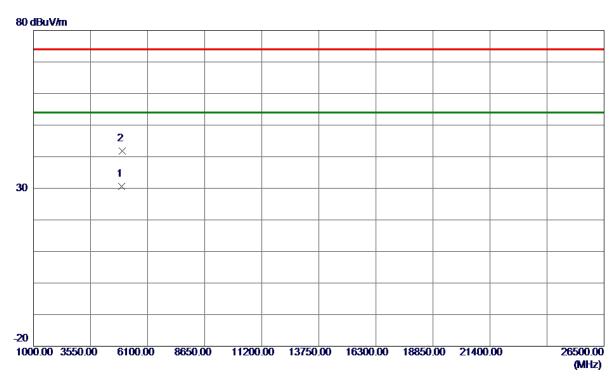


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2480.0000	96. 05	6. 61	102.66	74.00	28.66	Peak	No Limit
2 *	2480.0250	95.71	6. 61	102. 32	54.00	48. 32	AVG	No Limit
3	2483. 5000	43. 16	6.61	49.77	74.00	-24. 23	Peak	
4	2483. 5000	32.88	6.61	39. 49	54.00	-14.51	AVG	





Vertical

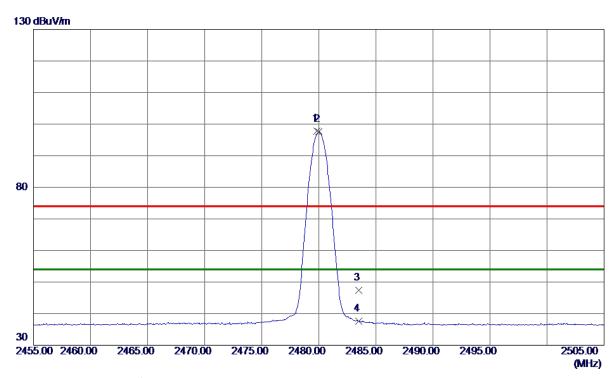


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4951. 5700	26.83	3.85	30.68	54.00	-23.32	AVG	
2	4958, 6500	37. 90	3. 87	41.77	74.00	-32, 23	Peak	





Horizontal

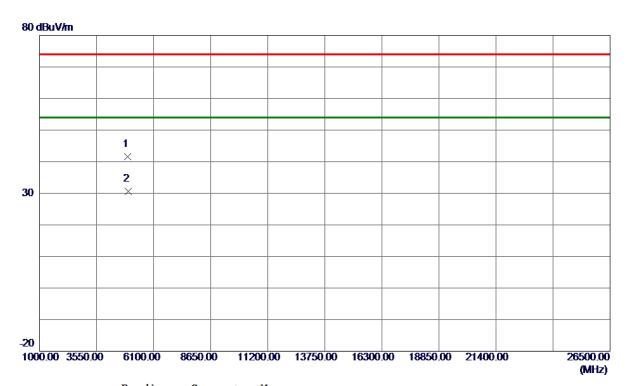


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2479.8500	91. 16	6. 61	97.77	74.00	23.77	Peak	No Limit
2 *	2480. 0250	90. 94	6. 61	97. 55	54.00	43.55	AVG	No Limit
3	2483. 5000	40.87	6. 61	47.48	74.00	-26. 52	Peak	
4	2483. 5000	30. 93	6. 61	37. 54	54.00	-16.46	AVG	





Horizontal

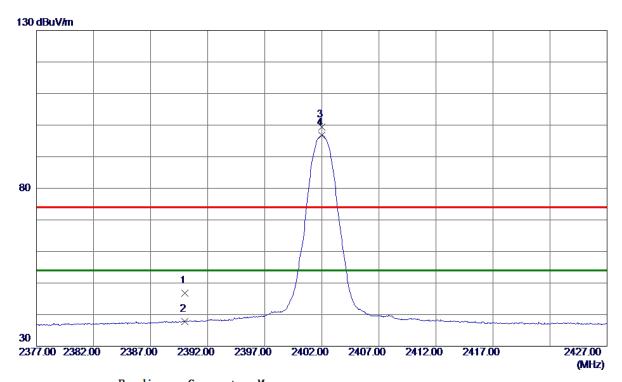


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4950. 5800	37.77	3.85	41.62	74.00	-32. 38	Peak	
2 *	4962. 6800	26. 70	3.88	30. 58	54.00	-23.42	AVG	





Vertical

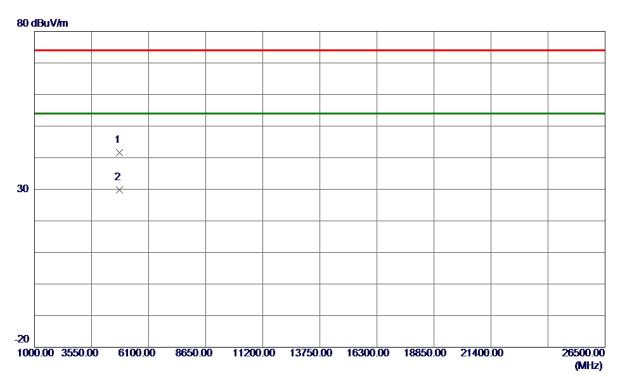


Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
2390.0000	40. 24	6. 62	46.86	74.00	-27. 14	Peak	
2390.0000	31. 26	6. 62	37.88	54.00	-16. 12	AVG	
2401.9750	92.72	6. 62	99. 34	74.00	25. 34	Peak	No Limit
2402. 0250	90. 10	6. 62	96. 72	54.00	42.72	AVG	No Limit
	MHz 2390. 0000 2390. 0000 2401. 9750	Freq. Level	Hz dBuV/m dB 2390.0000 40.24 6.62 2390.0000 31.26 6.62 2401.9750 92.72 6.62	MHz dBuV/m dB dBuV/m 2390.0000 40.24 6.62 46.86 2390.0000 31.26 6.62 37.88 2401.9750 92.72 6.62 99.34	MHz dBuV/m dB dBuV/m dBuV/m 2390.0000 40.24 6.62 46.86 74.00 2390.0000 31.26 6.62 37.88 54.00 2401.9750 92.72 6.62 99.34 74.00	MHz dBuV/m dB dBuV/m dB Margin 2390.0000 40.24 6.62 46.86 74.00 -27.14 2390.0000 31.26 6.62 37.88 54.00 -16.12 2401.9750 92.72 6.62 99.34 74.00 25.34	MHz dBuV/m dB dBuV/m dB uV/m dB uV/m </td





Vertical

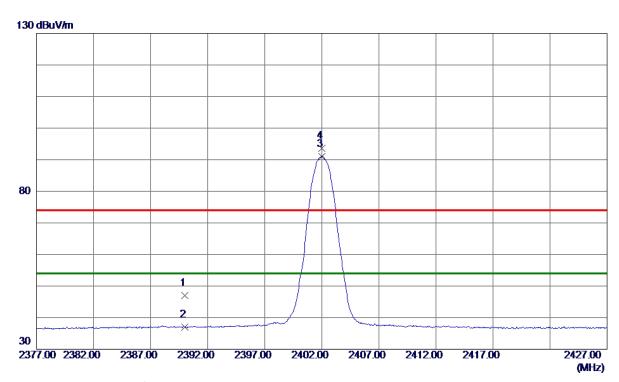


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4801.7400	38. 06	3. 52	41.58	74.00	-32.42	Peak	
2 *	4804, 3300	26. 34	3, 53	29, 87	54, 00	-24, 13	AVG	





Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	40.35	6. 62	46. 97	74.00	-27.03	Peak	
2	2390.0000	30.41	6. 62	37.03	54.00	-16. 97	AVG	
3 *	2401.9750	84. 33	6. 62	90. 95	54.00	36. 95	AVG	No Limit
4	2402.0000	86. 97	6. 62	93. 59	74.00	19. 59	Peak	No Limit





Horizontal

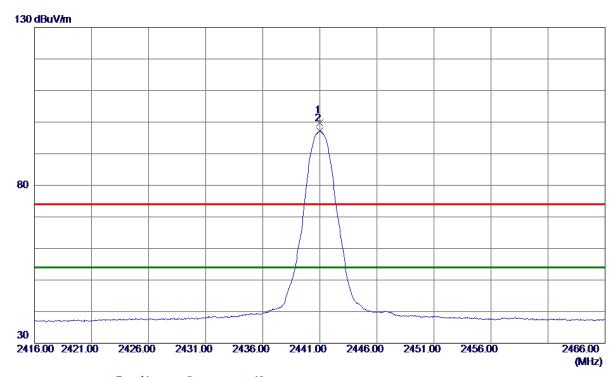


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4811.6400	26. 46	3. 54	30.00	54.00	-24.00	AVG	
2	4812, 2200	37. 78	3, 54	41. 32	74.00	-32, 68	Peak	





Vertical

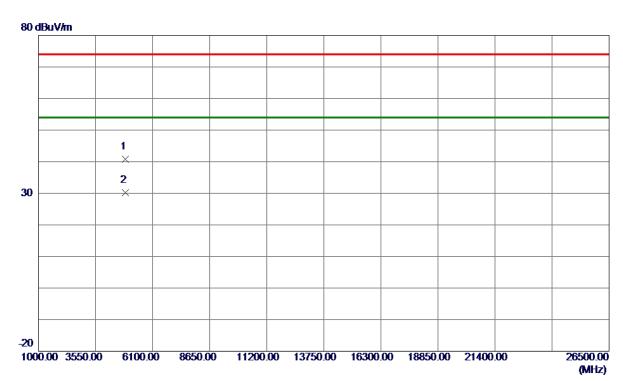


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2441.0000	93. 16	6. 61	99.77	74.00	25.77	Peak	No Limit
2 *	2441.0000	90. 53	6. 61	97.14	54.00	43. 14	AVG	No Limit





Vertical

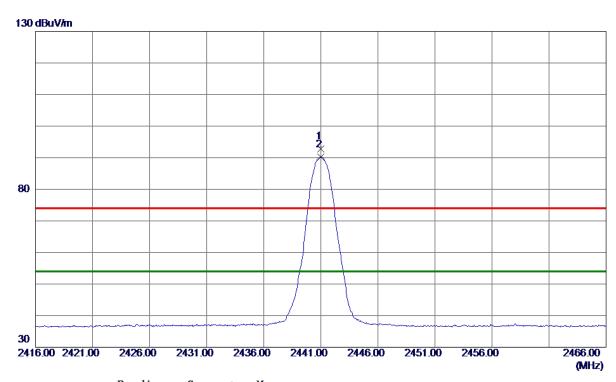


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4890. 6100	37.05	3.72	40.77	74.00	-33. 23	Peak	
2 *	4891, 1900	26. 42	3. 72	30. 14	54, 00	-23, 86	AVG	





Horizontal

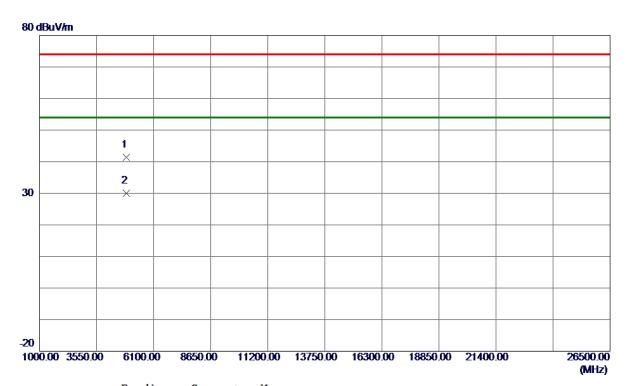


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2441.0000	86. 23	6. 61	92.84	74.00	18.84	Peak	No Limit
2 *	2441. 0250	83. 62	6. 61	90. 23	54.00	36. 23	AVG	No Limit





Horizontal

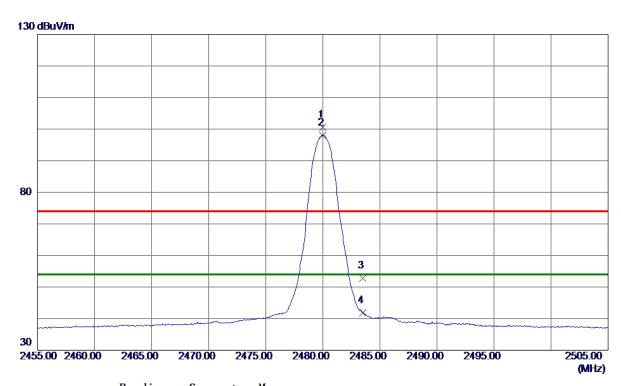


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4877.0200	37.62	3. 69	41.31	74.00	-32.69	Peak	
2 *	4889. 5000	26. 27	3. 72	29. 99	54.00	-24.01	AVG	





Vertical

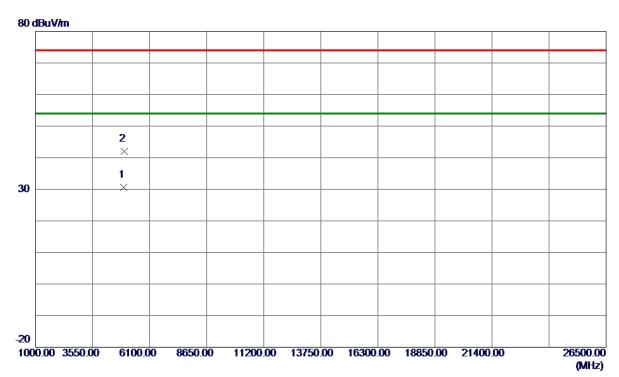


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2480.0000	94.05	6. 61	100.66	74.00	26.66	Peak	No Limit
2 *	2480. 0250	91.41	6. 61	98. 02	54.00	44.02	AVG	No Limit
3	2483. 5000	46. 19	6.61	52. 80	74.00	-21. 20	Peak	
4	2483. 5000	35. 23	6.61	41.84	54.00	-12. 16	AVG	





Vertical

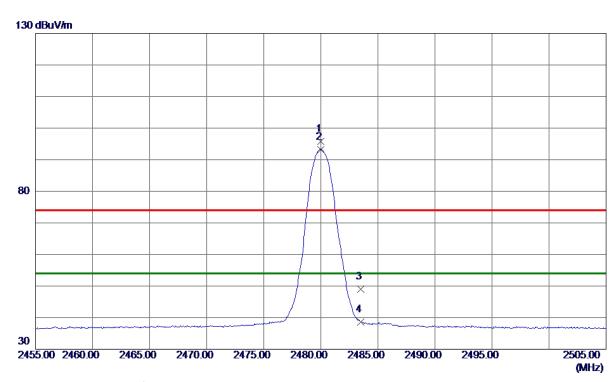


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4950. 7900	26. 67	3.85	30. 52	54.00	-23.48	AVG	
2	4959, 4000	38. 10	3. 87	41. 97	74.00	-32, 03	Peak	





Horizontal

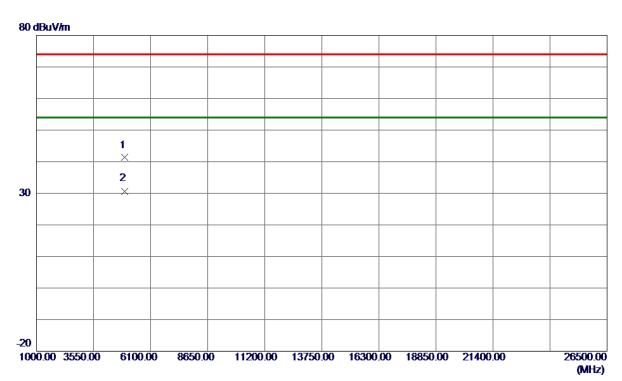


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2480. 0250	89. 16	6. 61	95. 77	74.00	21.77	Peak	No Limit
2 *	2480. 0250	86. 64	6. 61	93. 25	54.00	39. 25	AVG	No Limit
3	2483. 5000	42. 32	6. 61	48. 93	74.00	-25.07	Peak	
4	2483. 5000	32. 05	6. 61	38. 66	54.00	-15. 34	AVG	





Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4952. 2300	37.45	3.85	41.30	74.00	-32.70	Peak	
2 *	4952, 3800	26, 85	3, 85	30. 70	54. 00	-23, 30	AVG	





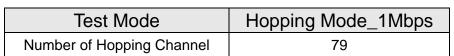
APPENDIX E - NUMBER OF HOPPING CHANNEL

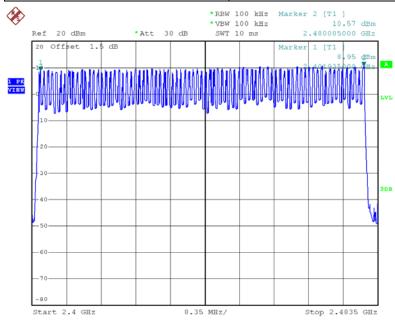
Report No.: BTL-FCCP-1-1810C079

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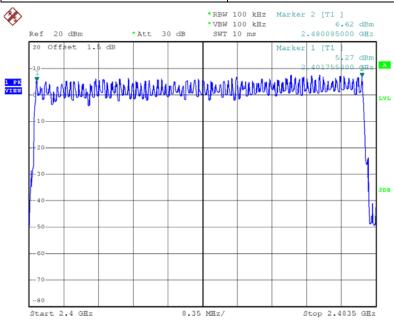






Date: 24.NOV.2018 15:55:30

Test Mode	Hopping Mode_3Mbps
Number of Hopping Channel	79



Date: 24.NOV.2018 16:16:45





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	APPENDIX F - AVERAGE TIME OF OCCUPANCY

Report No.: BTL-FCCP-1-1810C079

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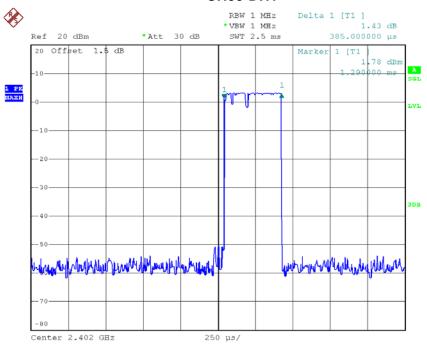
Test Mode: TX Mode_1Mbps

Data Packet	Frequency	Pulse Duration	Dwell Time	Limits	Toot Dooult
	(MHz)	(ms)	(s)	(s)	Test Result
DH5	2402	2.8800	0.3072	0.4000	Pass
DH3	2402	1.6400	0.2624	0.4000	Pass
DH1	2402	0.3850	0.1232	0.4000	Pass
DH5	2441	2.8800	0.3072	0.4000	Pass
DH3	2441	1.6400	0.2624	0.4000	Pass
DH1	2441	0.3800	0.1216	0.4000	Pass
DH5	2480	2.8800	0.3072	0.4000	Pass
DH3	2480	1.6400	0.2624	0.4000	Pass
DH1	2480	0.3800	0.1216	0.4000	Pass



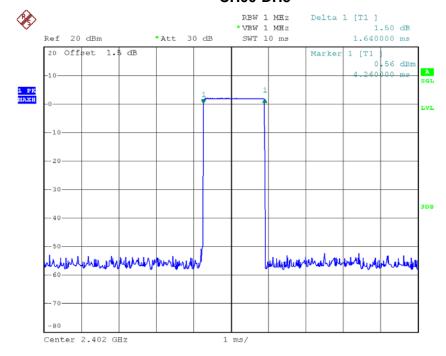






Date: 24.NOV.2018 15:46:49

CH00-DH3

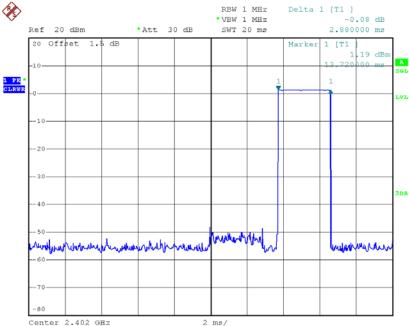


Date: 24.NOV.2018 15:57:48



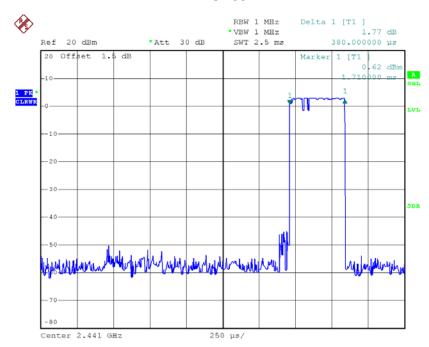






Date: 24.NOV.2018 16:00:43

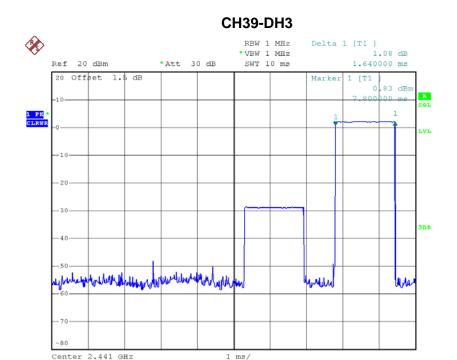
CH39-DH1



Date: 24.NOV.2018 15:45:09

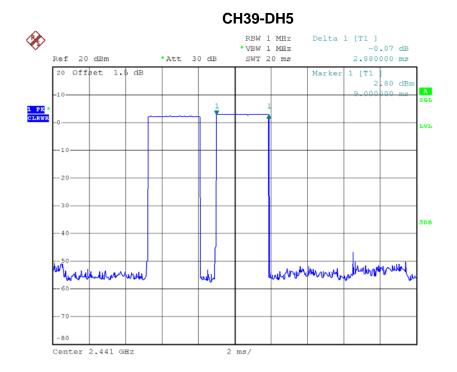






1 ms/

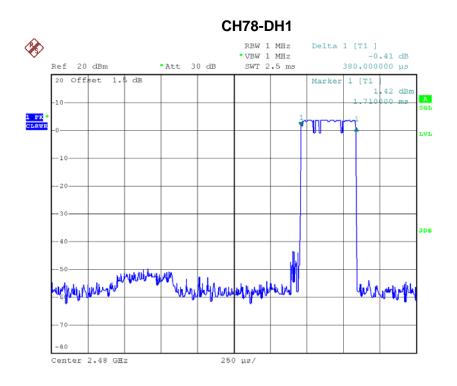
Date: 24.NOV.2018 15:57:53



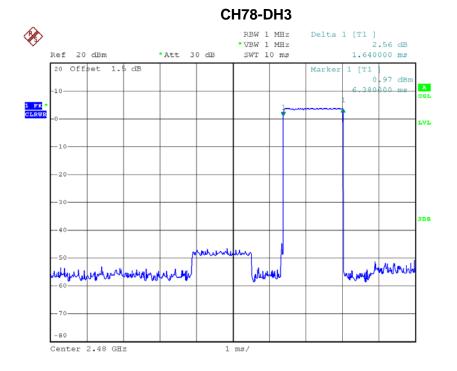
Date: 24.NOV.2018 16:00:48







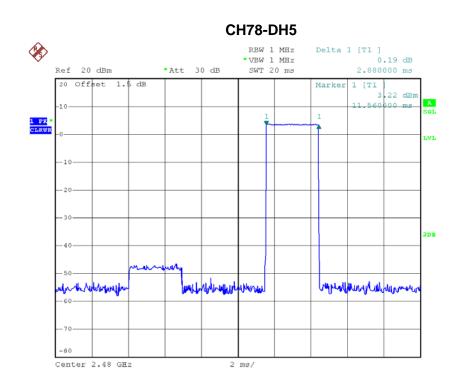
Date: 24.NOV.2018 15:45:15



Date: 24.NOV.2018 15:57:59







Date: 24.NOV.2018 16:00:56



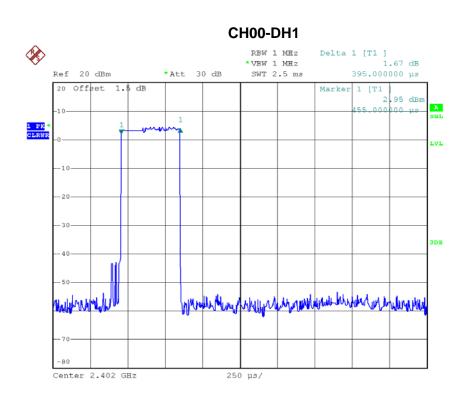


Test Mode: TX Mode_3Mbps

Data Packet	Frequency	Pulse	Dwell	Limits(s)	Test Result
		Duration(ms)	Time(s)		
DH5	2402	2.9200	0.3115	0.4000	Pass
DH3	2402	1.6600	0.2656	0.4000	Pass
DH1	2402	0.3950	0.1264	0.4000	Pass
DH5	2441	2.8800	0.3072	0.4000	Pass
DH3	2441	1.6400	0.2624	0.4000	Pass
DH1	2441	0.3900	0.1248	0.4000	Pass
DH5	2480	2.9200	0.3115	0.4000	Pass
DH3	2480	1.6400	0.2624	0.4000	Pass
DH1	2480	0.3900	0.1248	0.4000	Pass







Date: 24.NOV.2018 16:11:24

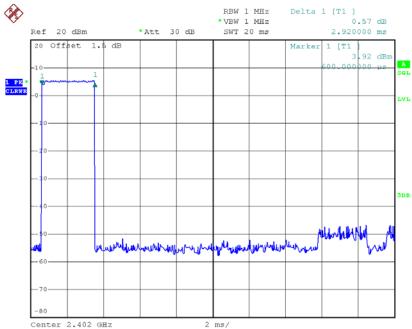
CH00-DH3 **\$** Delta 1 [T1] 0.50 dB RBW 1 MHz *VBW 1 MHz Ref 20 dBm •Att 30 dB SWT 10 ms 1.660000 ms 20 Offset 1.5 dB 72 dBm 1 PK LVL Center 2.402 GHz 1 ms/

Date: 24.NOV.2018 16:20:28



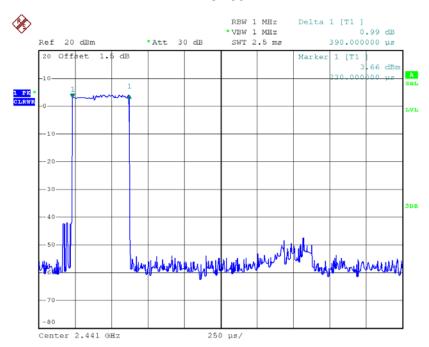






Date: 24.NOV.2018 16:21:22

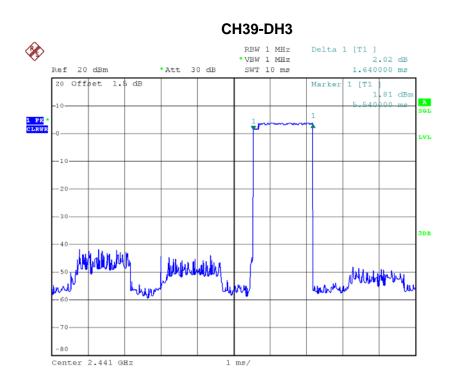
CH39-DH1



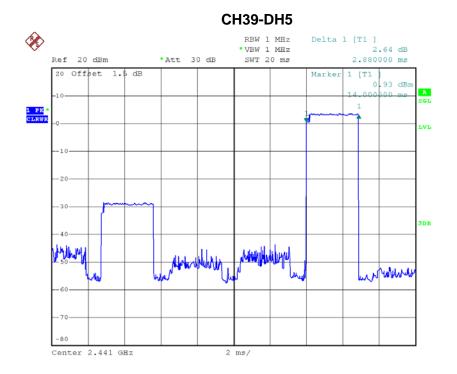
Date: 24.NOV.2018 16:20:00







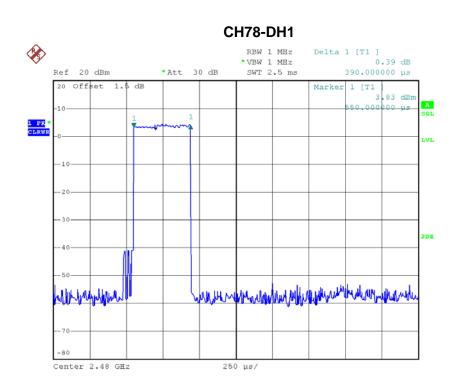
Date: 24.NOV.2018 16:20:34



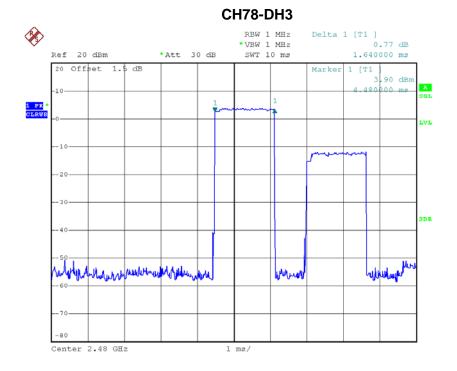
Date: 24.NOV.2018 16:21:49







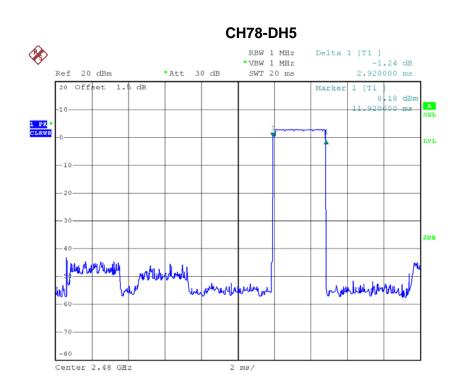
Date: 24.NOV.2018 16:20:06



Date: 24.NOV.2018 16:20:39







Date: 24.NOV.2018 16:21:53





APPENDIX G - HOPPING CHANNEL SEPARATION MEASUREMENT

Report No.: BTL-FCCP-1-1810C079

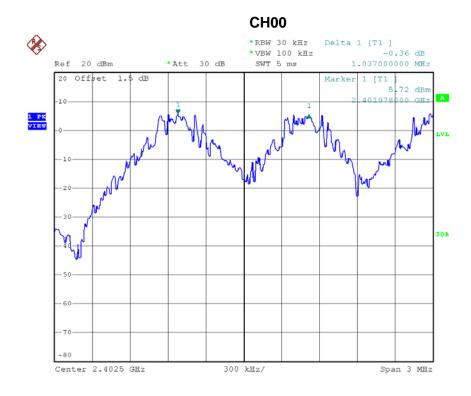
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Test Mode: Hopping on _1Mbps

Frequency (MHz)	Channel Separation (MHz)	2/3 of 20 dB Bandwidth (MHz)	Test Result	
2402	1.037	0.641	Pass	
2441	1.185	0.639	Pass	
2480	0.985	0.643	Pass	



Date: 24.NOV.2018 15:47:58

Report No.: BTL-FCCP-1-1810C079

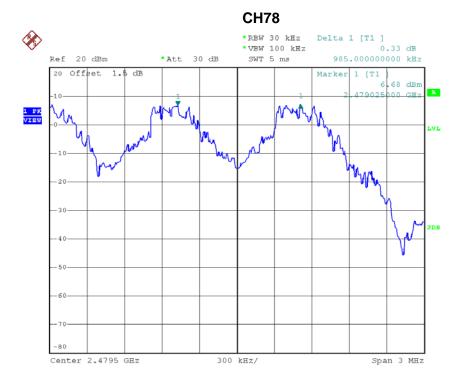
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Date: 24.NOV.2018 15:49:06



Date: 24.NOV.2018 15:53:41

Report No.: BTL-FCCP-1-1810C079

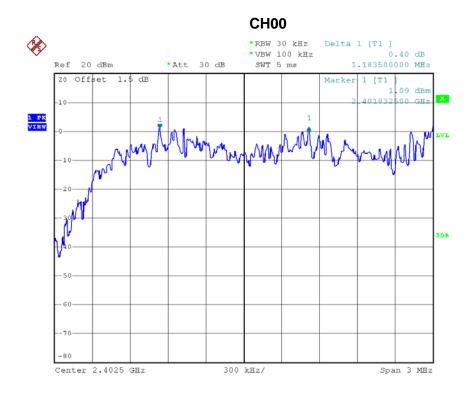
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Test Mode: Hopping on _3Mbps

Frequency (MHz)	Channel Separation (MHz)	2/3 of 20 dB Bandwidth (MHz)	Test Result
2402	1.184	1.023	Pass
2441	1.014	1.007	Pass
2480	1.178	1.019	Pass



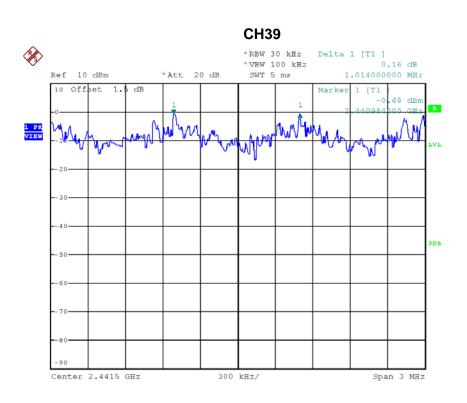
Date: 24.NOV.2018 16:12:45

Report No.: BTL-FCCP-1-1810C079

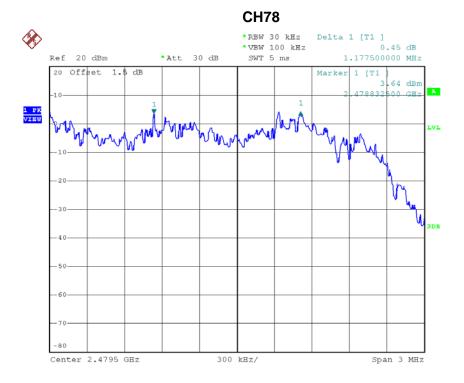
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Date: 24.NOV.2018 16:13:49



Date: 24.NOV.2018 16:14:57

Report No.: BTL-FCCP-1-1810C079

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APPENDIX H - BANDWIDTH

Report No.: BTL-FCCP-1-1810C079

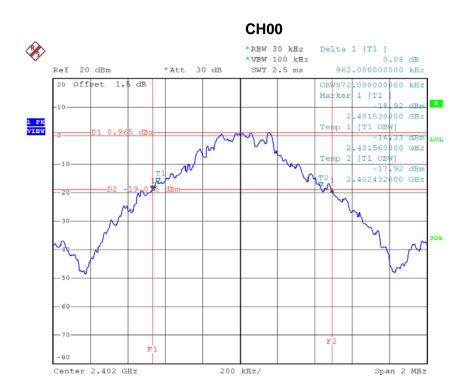
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Test Mode: TX Mode _1Mbps

Frequency (MHz)	20 dB Bandwidth (MHz)	99% Occupied BW (MHz)	Test Result
2402	0.962	0.872	Pass
2441	0.958	0.880	Pass
2480	0.964	0.884	Pass



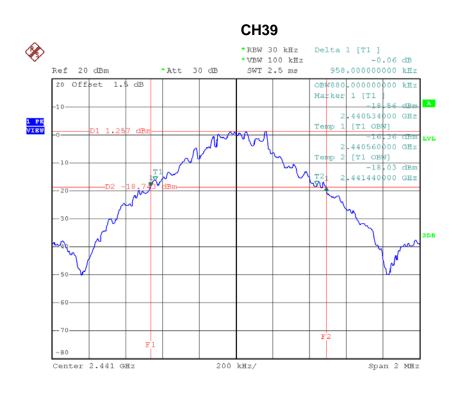
Date: 24.NOV.2018 15:34:03

Report No.: BTL-FCCP-1-1810C079

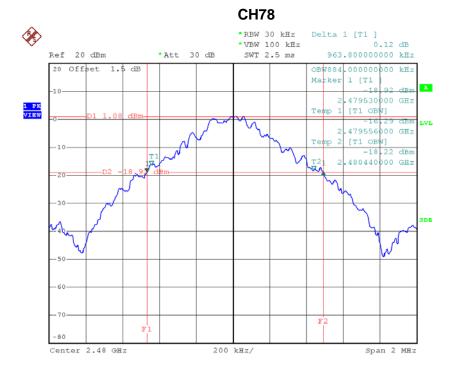
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Date: 24.NOV.2018 15:42:06



Date: 24.NOV.2018 15:43:50

Report No.: BTL-FCCP-1-1810C079

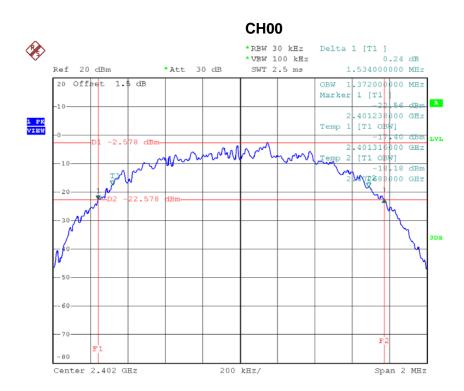
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Test Mode: TX Mode _3Mbps

Frequency (MHz)	20 dB Bandwidth (MHz)	99% Occupied BW (MHz)	Test Result
2402	1.534	1.372	Pass
2441	1.510	1.364	Pass
2480	1.528	1.376	Pass



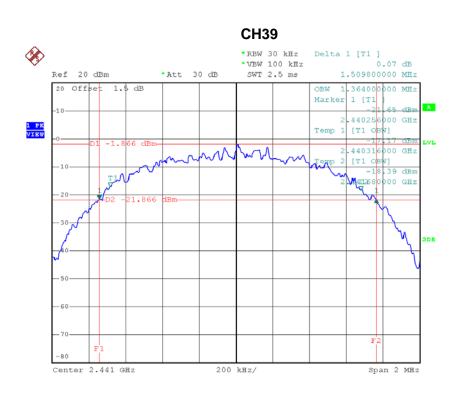
Date: 24.NOV.2018 16:05:09

Report No.: BTL-FCCP-1-1810C079

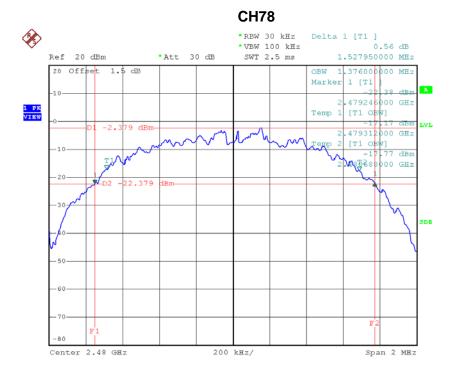
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Date: 24.NOV.2018 16:06:59



Date: 24.NOV.2018 16:07:35

Report No.: BTL-FCCP-1-1810C079

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APPENDIX I - MAXIMUM OUTPUT POWER			

Report No.: BTL-FCCP-1-1810C079

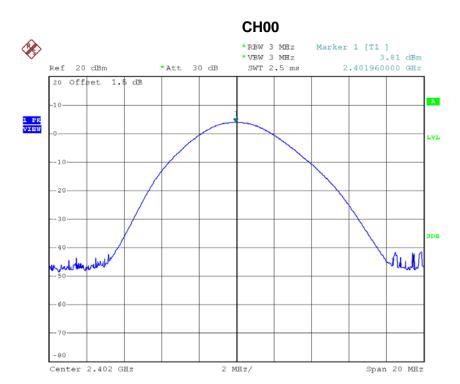
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Test Mode: TX Mode _1Mbps

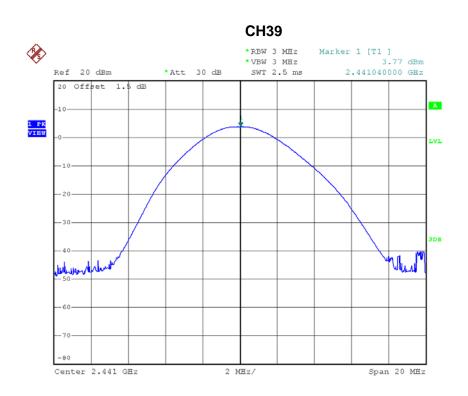
Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit	Max. Limit (W)	Test Result
2402	3.81	0.0024	21.00	0.125	Pass
2441	3.77	0.0024	21.00	0.125	Pass
2480	3.83	0.0024	21.00	0.125	Pass



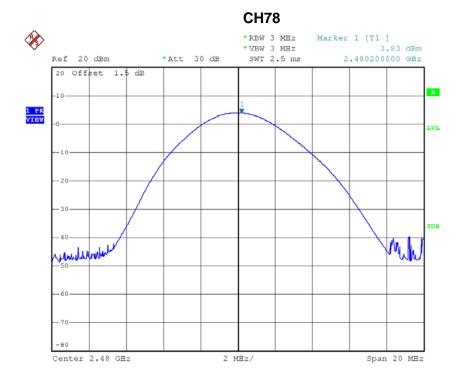
Date: 24.NOV.2018 15:29:01







Date: 24.NOV.2018 15:32:01



Date: 24.NOV.2018 15:32:59

Report No.: BTL-FCCP-1-1810C079

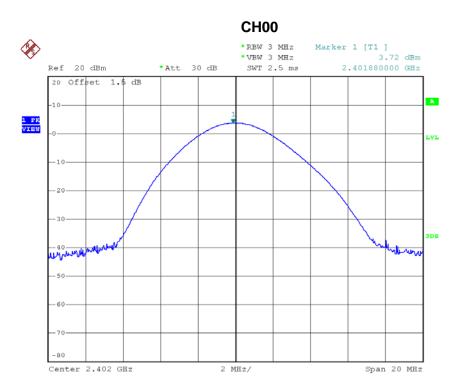
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Test Mode: TX Mode _3Mbps

Frequency	Output Power	Output Power	Max. Limit	Max. Limit	Test Result
(MHz)	(dBm)	(W)	(dBm)	(W)	
2402	3.72	0.0024	21.00	0.125	Pass
2441	3.89	0.0024	21.00	0.125	Pass
2480	3.77	0.0024	21.00	0.125	Pass



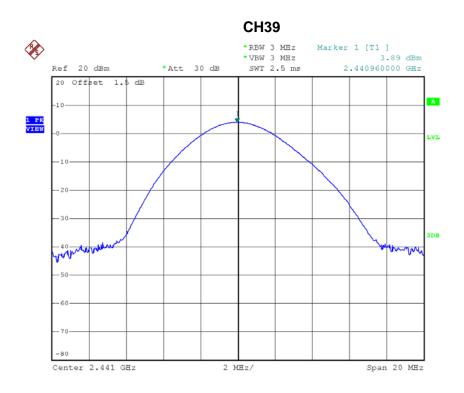
Date: 24.NOV.2018 16:03:15

Report No.: BTL-FCCP-1-1810C079

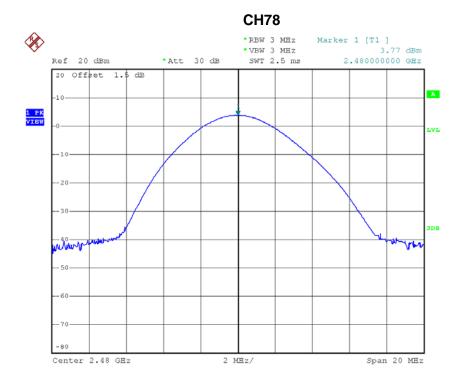
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Date: 24.NOV.2018 16:03:52



Date: 24.NOV.2018 16:04:10

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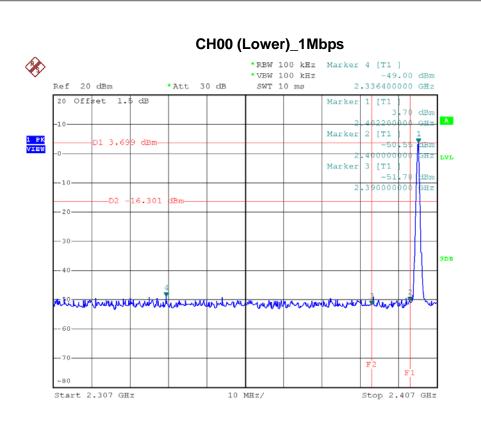
APPENDIX J - ANTENNA CONDUCTED SPURIOUS EMISSION					

Report No.: BTL-FCCP-1-1810C079

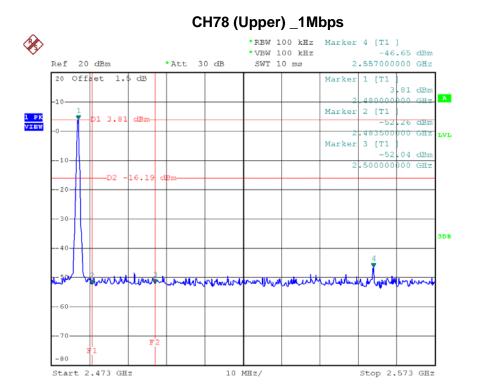
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Date: 24.NOV.2018 15:39:51



Date: 24.NOV.2018 15:43:24

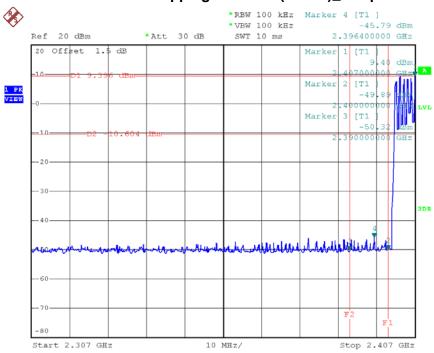
Report No.: BTL-FCCP-1-1810C079

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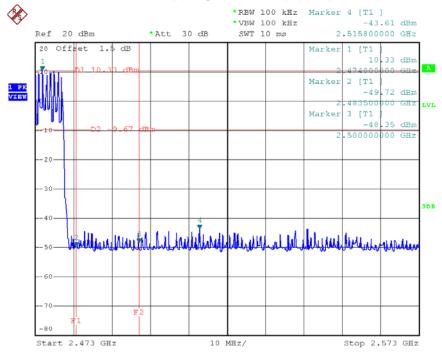






Date: 24.NOV.2018 15:56:52

CH78 Hopping on mode (Upper) _1Mbps



Date: 24.NOV.2018 15:57:28

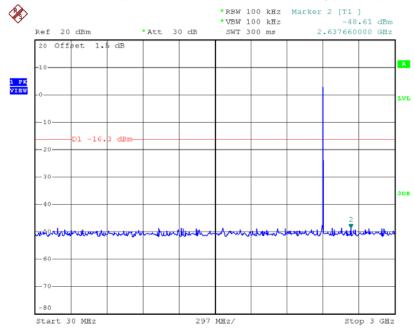
Report No.: BTL-FCCP-1-1810C079

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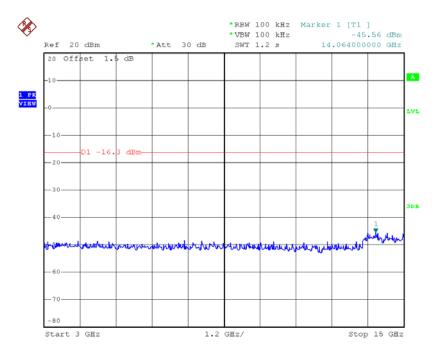




CH00 (10 Harmonic of the frequency) _1Mbps



Date: 24.NOV.2018 15:40:05



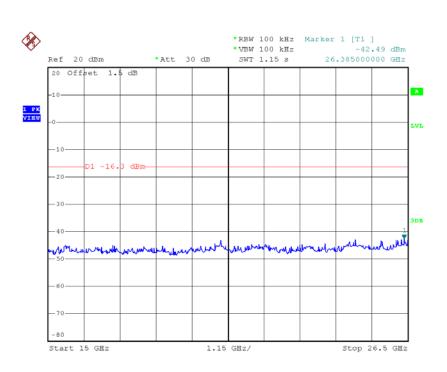
Date: 24.NOV.2018 15:40:14

Report No.: BTL-FCCP-1-1810C079

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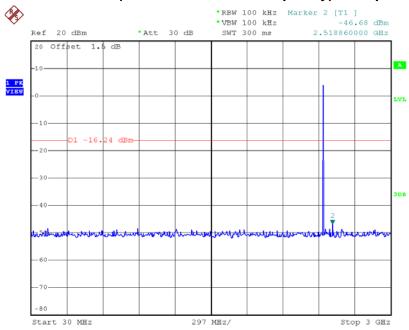






Date: 24.NOV.2018 15:40:22

CH39 (10 Harmonic of the frequency) _1Mbps



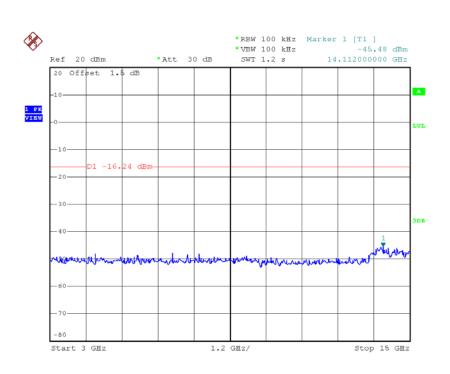
Date: 24.NOV.2018 15:41:23

Report No.: BTL-FCCP-1-1810C079

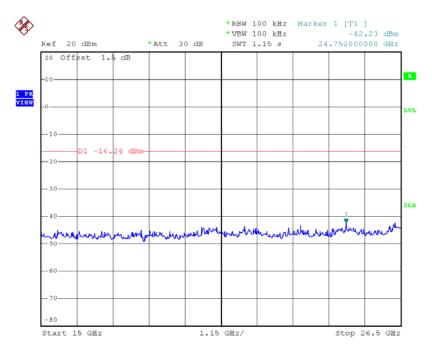
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Date: 24.NOV.2018 15:41:31



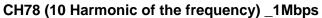
Date: 24.NOV.2018 15:41:39

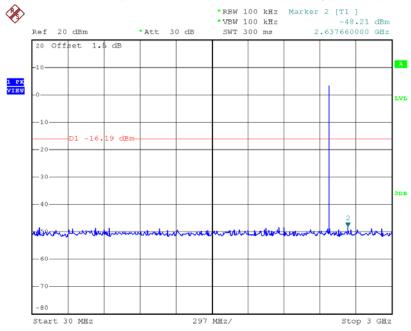
Report No.: BTL-FCCP-1-1810C079

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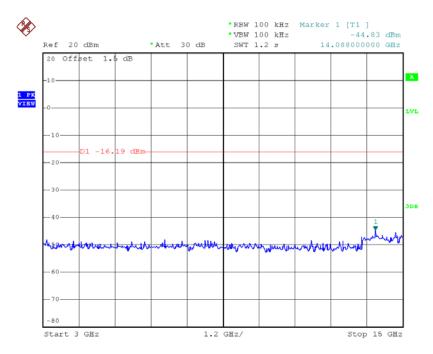








Date: 24.NOV.2018 15:44:04



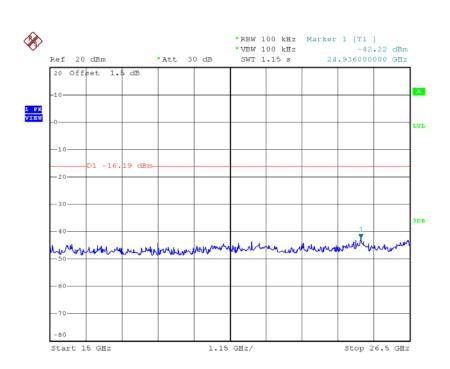
Date: 24.NOV.2018 15:44:12

Report No.: BTL-FCCP-1-1810C079

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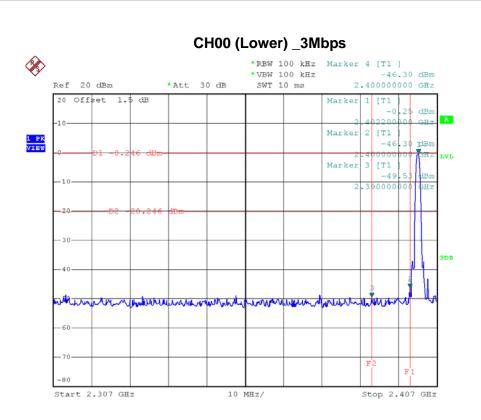
Date: 24.NOV.2018 15:44:21

Report No.: BTL-FCCP-1-1810C079

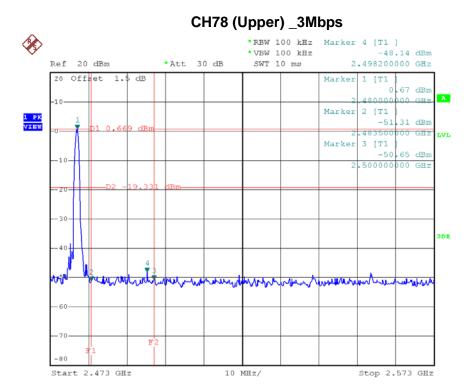
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Date: 24.NOV.2018 16:04:53



Date: 24.NOV.2018 16:07:20

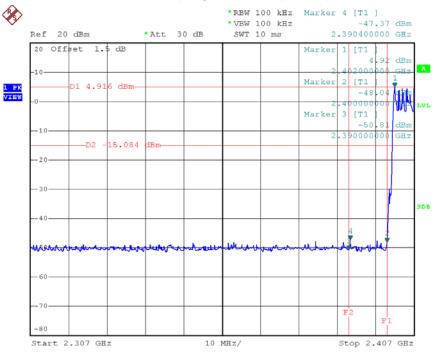
Report No.: BTL-FCCP-1-1810C079

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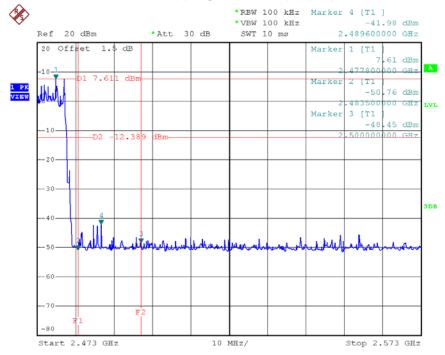






Date: 24.NOV.2018 16:17:20

CH78 Hopping on mode (Upper) _3Mbps



Date: 24.NOV.2018 16:17:55

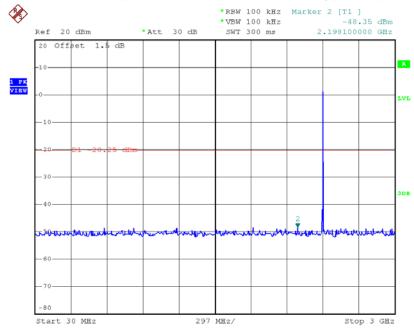
Report No.: BTL-FCCP-1-1810C079

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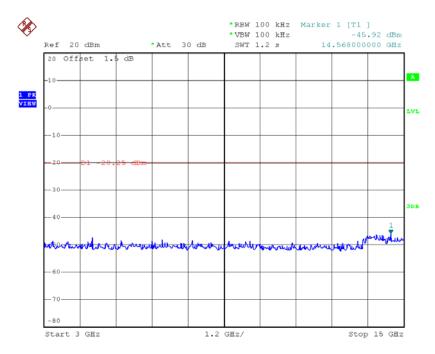




CH00 (10 Harmonic of the frequency) _3Mbps



Date: 24.NOV.2018 16:05:23



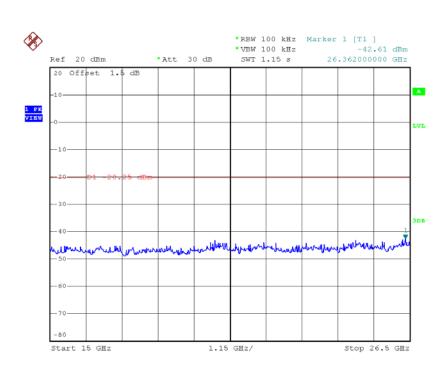
Date: 24.NOV.2018 16:05:31

Report No.: BTL-FCCP-1-1810C079

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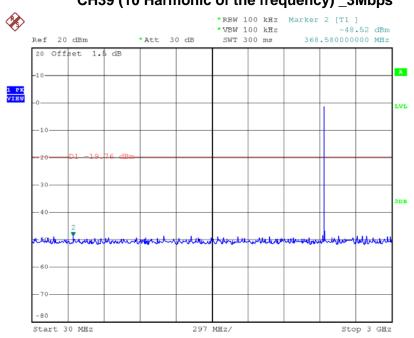






Date: 24.NOV.2018 16:05:40

CH39 (10 Harmonic of the frequency) _3Mbps



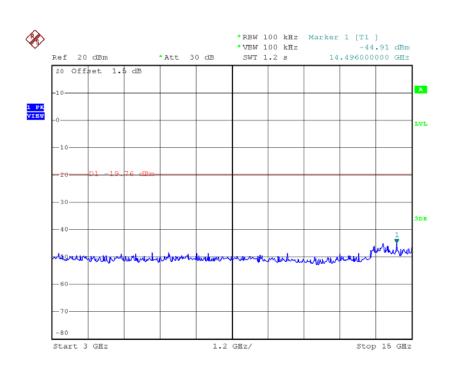
Date: 24.NOV.2018 16:06:26

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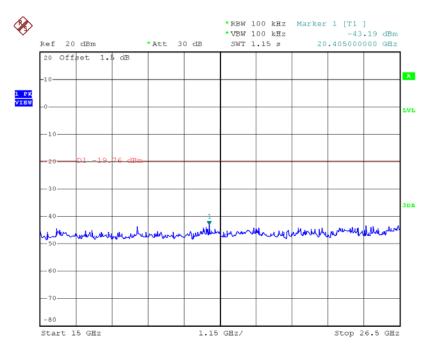
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Date: 24.NOV.2018 16:06:35



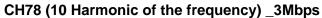
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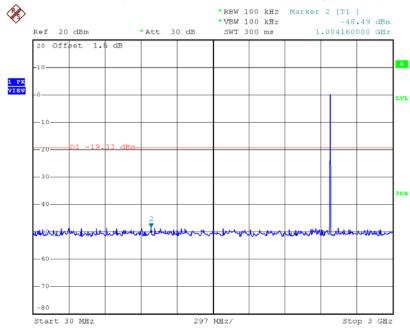
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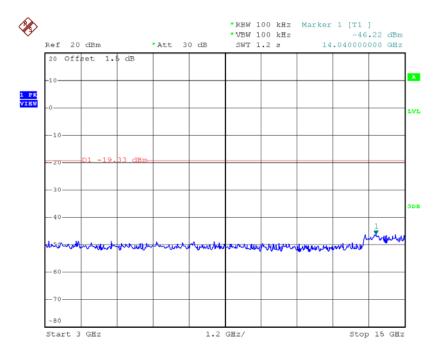








Date: 24.NOV.2018 16:07:49



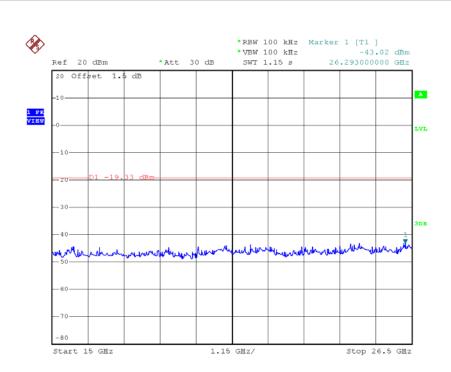
Date: 24.NOV.2018 16:07:58

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End of Test Report