



FCC Radio Test Report

FCC ID: LDK78321416

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

Project No. : 1611C076 Equipment : IP PHONE Model Name : CP-/୪3∠ : Cisco Systems Inc

: 125 West Tasman Drive San Jose California United Address

States

Date of Receipt : Oct. 31, 2016

Date of Test : Oct. 31, 2016 ~ Nov. 22, 2016

Issued Date : Nov. 23, 2016 Tested by : BTL Inc.

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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

Issued No.	Description	Issued Date
BTL-FCCP-2-1611C076	Original Issue.	Nov. 23, 2016

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1. CERTIFICATION

Equipment : IP PHONE Brand Name : Cisco Model Name : CP-7832

Applicant : Cisco Systems Inc Manufacturer : Cisco Systems Inc

Address : 125 West Tasman Drive San Jose California United States Factory : Hong Fu Jin Precision Industry (ShenZhen) Co.,Ltd.

Address : Bldg D10, F21, No 2, 2nd DongGuan Road, 10th Yousong Industrial District,

Longhua Town, Baoan, ShenZhen, GuangDong, China

Date of Test : Oct. 31, 2016 ~ Nov. 22, 2016

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-2-1611C076) 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).

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

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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	PASS	
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	
15.209/15.205	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. Conducted Measurement:

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

B. 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	
	CICDD		30MHz ~ 200MHz	Η	3.78
DG-CB03			CICDD	B03 CISPR	200MHz ~ 1,000MHz
DG-CB03	CISER	200MHz ~ 1,000MHz	Η	4.06	
		1GHz~18GHz 1GHz~18GHz 18GHz~40GHz	1GHz~18GHz	V	3.12
			Н	3.68	
			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	IP PHONE	
Brand Name	Cisco	
Model Name	CP-7832	
Model Difference	N/A	
	Operation Frequency	2402~2480 MHz
Product Description	Modulation Technology	GFSK(1Mbps)
1 Toddot Description	Bit Rate of Transmitter	GI GIK(TWIDDS)
	Output Power (Max.)	7.4dBm (1Mbps)
Power Source	Supplied from Ethernet (RJ-45 port).	
Power Rating	DC 48V	

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.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	PIFA	N/A	1.85

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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

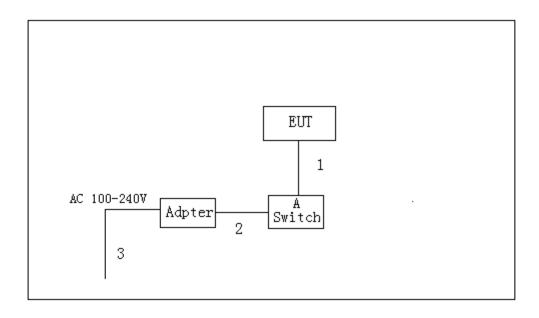
Test Software Version	N/A		
Frequency (MHz)	2402	2440	2480
BT LE	N/A	N/A	N/A

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3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



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.
Α	Switch	Cisco	Cisco 800 Series	N/A	FGL1825206M

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	1M	RJ45 Cable
2	NO	YES	1.5M	DC Cable
3	NO	YES	1.8M	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 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

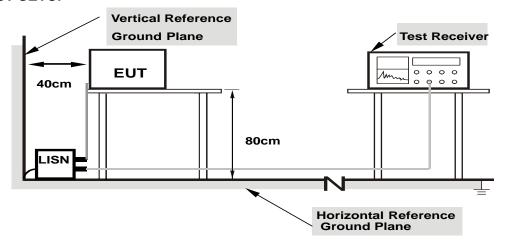
No deviation

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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: AC 120V/60Hz

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)

Frequency (MHz)	(dBuV/m) (at 3 meters)	
Frequency (Miriz)	PEAK	AVERAGE
Above 1000	74	54

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

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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 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

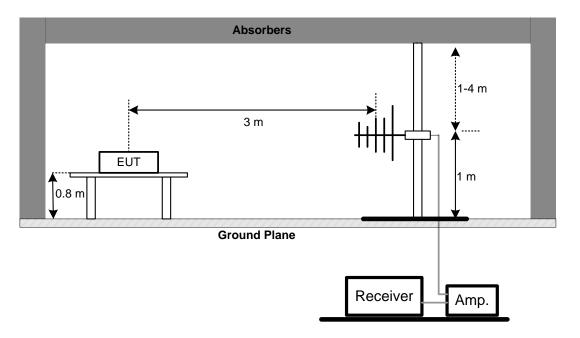
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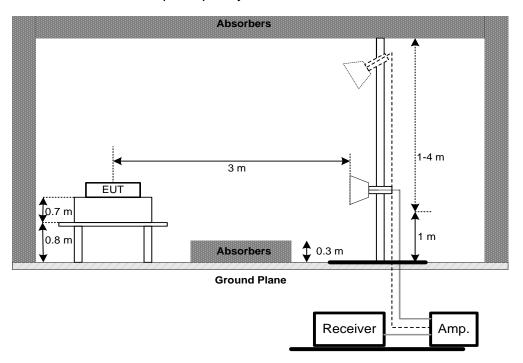


4.2.4 TEST SETUP

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



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

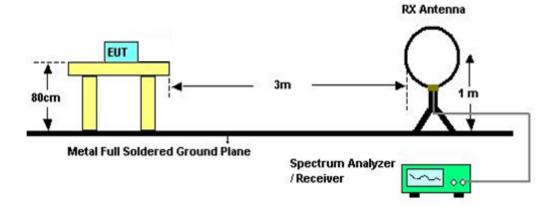


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(C) For radiated emissions below 30MHz



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: AC 120V/60Hz

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: AC 120V/60Hz

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 9.1.2 of FCC KDB 558074 D01 DTS Meas Guidance.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP

EUT	Power Meter
	. C. Wicker

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: AC 120V/60Hz

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

EUT	SPECTRUM
	ANALYZER

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: AC 120V/60Hz

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: AC 120V/60Hz

8.1.6 TEST RESULTS

Please refer to the Attachment H.

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9. MEASUREMENT INSTRUMENTS LIST

		Conducted E	mission Measure	ment	
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	EMCO	3816/2	0052765	Mar. 27, 2017
2	LISN	R&S	ENV216	101447	Mar. 27, 2017
3	Test Cable	emci	RG223(9KHz-30 MHz)	C_17	Mar. 10, 2017
4	EMI Test Receiver	R&S	ESCI	100382	Mar. 27, 2017
5	50Ω Terminator	SHX	TF2-3G-A	08122901	Mar. 27, 2017
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

	Radiated Emission Measurement				
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 27, 2017
2	Amplifier	HP	8447D	2944A09673	Nov. 08, 2017
3	Receiver	AGILENT	N9038A	MY52130039	Oct. 10, 2017
4	Test Cable	emci	LMR-400(30MH z-1GHz)	C-01	Jun. 26, 2017
5	Control	CT	SC100	N/A	N/A
6	Position Control	MF	MF-7802	MF780208416	N/A
7	Antenna	ETS	3115	00075789	Mar. 27, 2017
8	Amplifier	Agilent	8449B	3008A02274	Nov. 01, 2017
9	Receiver	AGILENT	N9038A	MY52130039	Oct. 10, 2017
10	Test Cable	emci	EMC104-SM-S M-10000(1GHz -26.5GHz)	C-68	Jun. 26, 2017
11	Controller	СТ	SC100	N/A	N/A
12	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Apr. 23, 2017
13	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 27, 2017
14	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Sep. 06, 2017
15	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

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		6dB Bandwid	th Measureme	ent	
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Sep. 04, 2017

		Peak Output Po	wer Measurer	nent	
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Power Meter	ANRITSU	ML2495A	1128009	Mar. 27, 2017
2	Pulse Power Sensor	ANRITSU	MA 2411B	1027500	Mar. 27, 2017

	Antenna Conducted Spurious Emission Measurement				
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Sep. 04, 2017

		Power Spectral De	ensity Measur	ement	
Item	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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ATTACHMENT A - CONDUCTED EMISSION

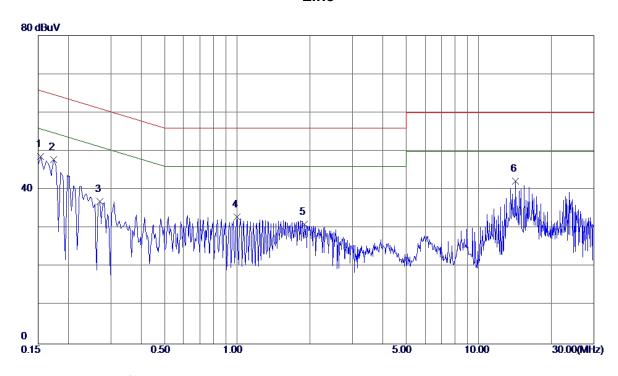
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Test Mode: TX Mode

Line



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0. 1539	39. 15	9. 52	48. 67	65. 79	-17. 12	Peak	
2 *	0. 1740	38. 34	9. 52	47. 86	64. 77	-16. 91	Peak	
3	0.2700	27. 45	9. 53	36. 98	61. 12	-24. 14	Peak	
4	0.9980	23. 22	9. 76	32. 98	56.00	-23. 02	Peak	
5	1.8980	21. 09	9. 89	30. 98	56. 00	-25. 02	Peak	
6	14. 2460	31. 96	10. 34	42. 30	60.00	-17. 70	Peak	

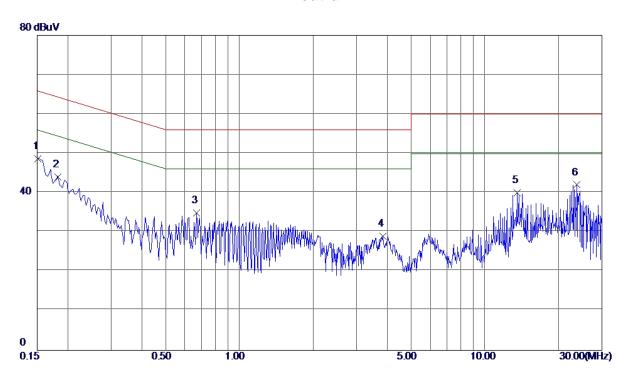
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Test Mode: TX Mode

Neutral



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0. 1507	39. 10	9. 52	48. 62	65. 96	-17. 34	Peak	
2	0. 1824	34. 53	9. 47	44. 00	64. 38	-20. 38	Peak	
3	0.6700	25. 45	9. 45	34. 90	56.00	-21. 10	Peak	
4	3.8460	19. 08	9. 87	28. 95	56.00	-27. 05	Peak	
5	13. 5220	29. 72	10. 35	40. 07	60. 00	-19. 93	Peak	
6	23. 6620	31. 47	10. 53	42.00	60. 00	-18. 00	Peak	

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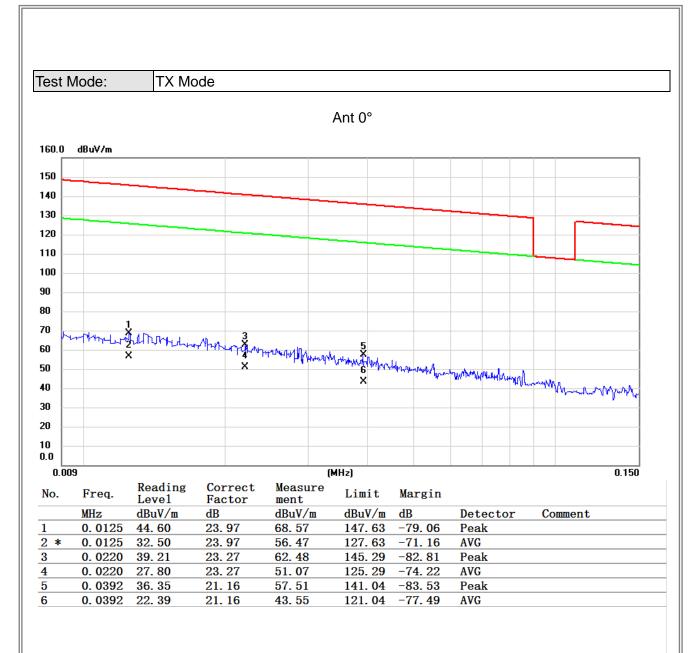


ATTACHMENT B - RADIATED EMISSION (9KHZ TO 30MHZ)

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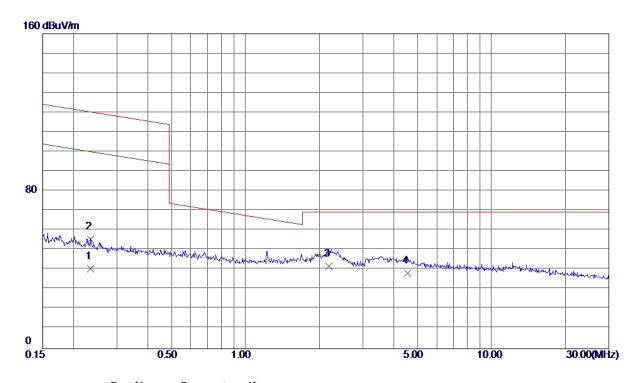
Report No.: BTL-FCCP-2-1611C076





Test Mode: TX Mode

Ant 0°

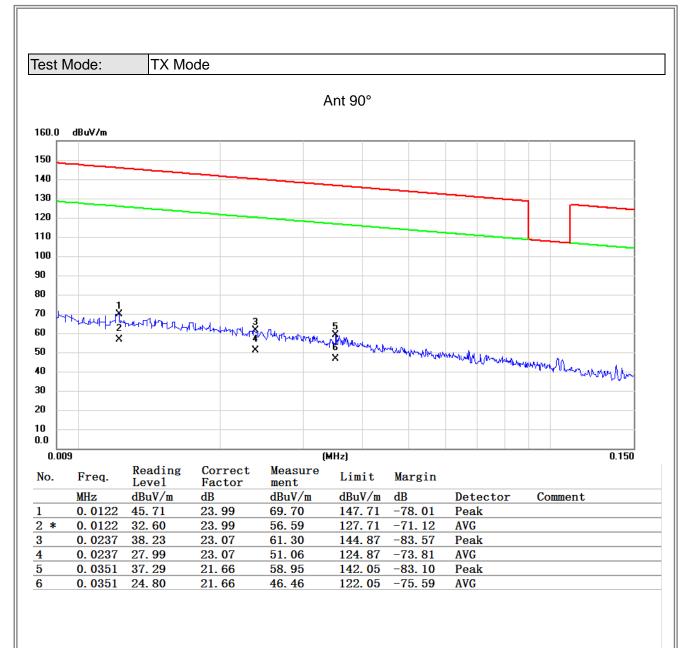


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0. 2341	22. 11	18. 66	40. 77	102. 54	-61. 77	AVG	
2	0. 2353	37. 07	18. 66	55. 73	122. 50	-66. 77	Peak	
3 *	2. 1783	24. 20	17. 68	41.88	69. 54	-27. 66	QP	
4	4. 5494	20. 81	17. 61	38. 42	69. 54	-31. 12	QP	

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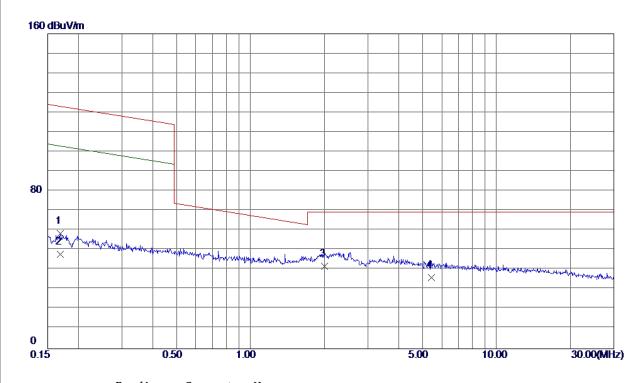
Report No.: BTL-FCCP-2-1611C076





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. 1685	39. 88	18. 72	58. 60	124. 78	-66. 18	Peak	
2	0. 1685	29. 20	18. 72	47. 92	104. 78	-56. 86	AVG	
3 *	2.0011	23. 91	17. 90	41.81	69. 54	-27. 73	QP	
4	5. 4474	19. 50	16. 61	36. 11	69. 54	-33. 43	QP	

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

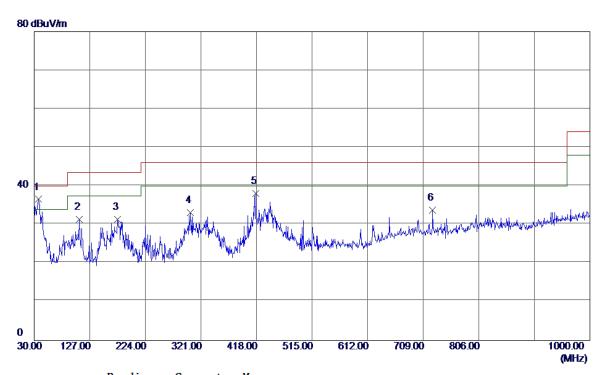
Report No.: BTL-FCCP-2-1611C076





Test Mode: TX 2402MHz _CH00_1Mbps

Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	37. 7599	49. 44	-12.88	36. 56	40.00	-3.44	Peak	
2	108. 5700	45. 37	-13. 96	31. 41	43. 50	-12. 09	Peak	
3	175. 9850	42. 99	-11. 57	31. 42	43. 50	-12. 08	Peak	
4	302. 5700	43. 11	-9. 98	33. 13	46.00	-12.87	Peak	
5	416. 5450	45. 20	-7. 16	38. 04	46.00	-7. 96	Peak	
6	725. 4900	34. 46	-0. 76	33. 70	46.00	-12. 30	Peak	

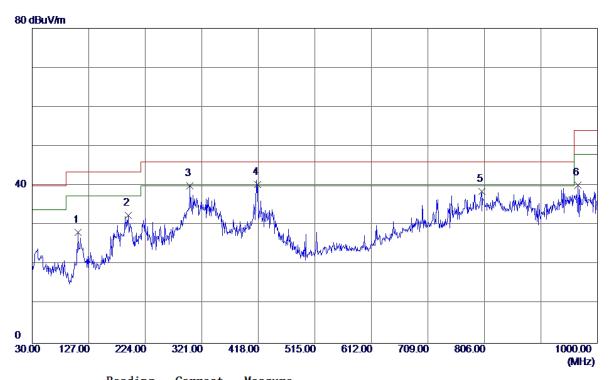
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Test Mode: TX 2402MHz _CH00_1Mbps

Horizontal



No	. Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	108. 5700	42. 18	-13. 96	28. 22	43. 50	-15. 28	Peak	
2	194. 9000	45. 91	-13. 41	32. 50	43. 50	-11.00	Peak	
3	300. 6300	49. 89	−9. 95	39. 94	46.00	-6. 06	Peak	
4	* 417.0300	47. 55	−7. 16	40. 39	46.00	-5. 61	Peak	
5	801. 6350	37. 98	0.61	38. 59	46.00	-7. 41	Peak	
6	966. 5350	36. 65	3. 44	40. 09	54.00	-13. 91	Peak	

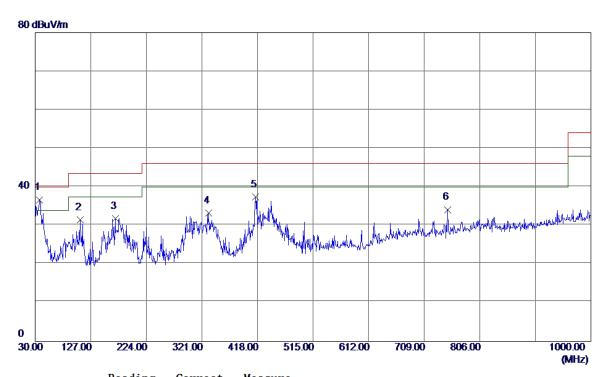
Report No.: BTL-FCCP-2-1611C076 Page 39 of 71





Test Mode: TX 2440MHz _CH19_1Mbps

Vertical



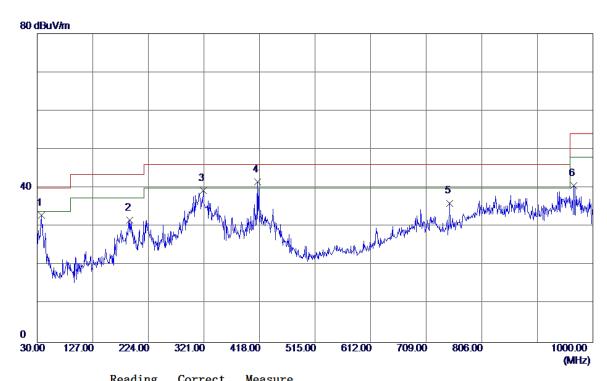
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	37. 7599	49. 60	-12.88	36. 72	40.00	-3. 28	Peak	
2	108. 5700	45. 41	-13. 96	31. 45	43. 50	-12. 05	Peak	
3	170. 1649	42.61	-10. 73	31. 88	43. 50	-11. 62	Peak	
4	333. 1250	43.84	-10. 49	33. 35	46.00	-12.65	Peak	
5	414. 6050	44. 65	-7. 16	37. 49	46.00	-8. 51	Peak	
6	749. 7400	35. 03	-0.87	34. 16	46.00	-11. 84	Peak	

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Horizontal



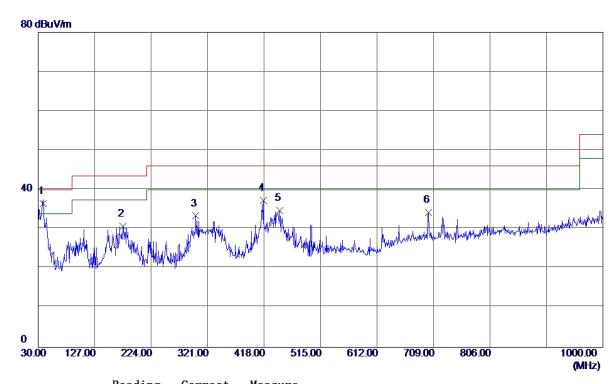
No.	Freq.	Reading Level	Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	37. 2750	45. 99	-12. 99	33. 00	40.00	−7. 00	Peak	
2	191. 9900	44. 96	-13. 28	31. 68	43. 50	-11.82	Peak	
3	319. 5450	49. 65	-10. 26	39. 39	46.00	-6. 61	Peak	
4 *	414. 6050	48. 72	-7. 16	41. 56	46.00	-4. 44	Peak	
5	750. 2250	36. 94	-0. 86	36. 08	46.00	-9. 92	Peak	
6	966. 5350	37. 16	3. 44	40. 60	54.00	-13. 40	Peak	

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Vertical



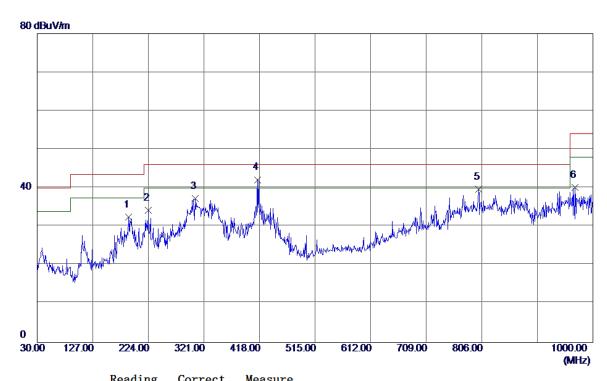
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	38. 7300	49. 26	-12. 72	36. 54	40.00	-3. 46	QP	
2	175. 9850	42. 22	-11. 57	30. 65	43. 50	-12.85	Peak	
3	300. 6300	43. 31	-9. 95	33. 36	46.00	-12.64	Peak	
4	416. 5450	44. 50	-7. 16	37. 34	46.00	-8. 66	Peak	
5	445. 1600	41.87	-7. 09	34. 78	46.00	-11. 22	Peak	
6	700. 2700	34. 93	-0. 65	34. 28	46.00	-11. 72	Peak	

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Horizontal



No.	Freq.	Reading Level	Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	189. 5650	45. 66	-13. 15	32. 51	43. 50	-10. 99	Peak	
2	223. 5150	47. 90	-13. 59	34. 31	46.00	-11. 69	Peak	
3	305. 4800	47. 34	-10. 03	37. 31	46.00	-8. 69	Peak	
4 *	414. 6050	49. 32	-7. 16	42. 16	46.00	-3.84	Peak	
5	800. 1800	39. 04	0. 61	39. 65	46.00	-6. 35	Peak	
6	968. 9600	36. 64	3. 48	40. 12	54.00	-13.88	Peak	

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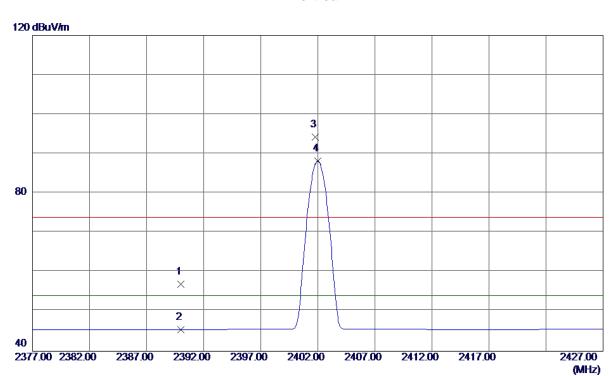
ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

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Vertical



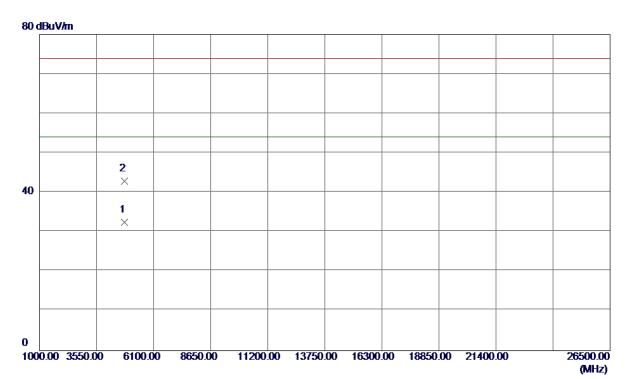
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390. 0000	23. 17	33. 76	56. 93	74.00	-17. 07	Peak	
2	2390. 0000	11. 65	33. 76	45. 41	54.00	-8. 59	AVG	
3	2401. 7750	60. 46	33. 82	94. 28	74.00	20. 28	Peak	NO LIMIT
4 *	2402. 0000	54. 40	33. 82	88. 22	54.00	34. 22	AVG	NO LIMIT

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Vertical



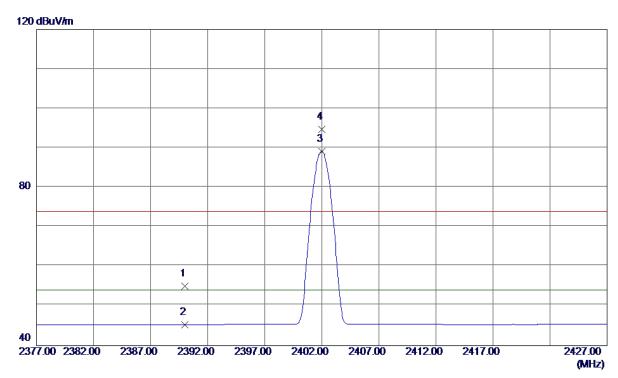
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4803. 7750	27. 39	5. 09	32. 48	54.00	-21. 52	AVG	
2	4804. 0150	37. 79	5. 09	42. 88	74.00	-31. 12	Peak	

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Horizontal



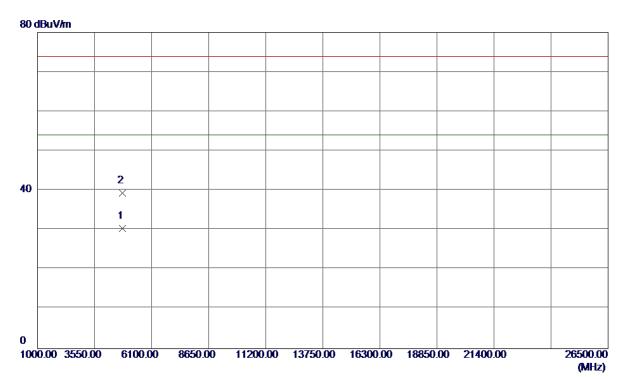
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	21. 22	33. 76	54. 98	74.00	-19.02	Peak	
2	2390.0000	11. 51	33. 76	45. 27	54.00	-8. 73	AVG	
3 *	2401.9750	55. 35	33. 82	89. 17	54.00	35. 17	AVG	NO LIMIT
4	2402. 0000	60. 84	33. 82	94. 66	74.00	20.66	Peak	NO LIMIT

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Horizontal



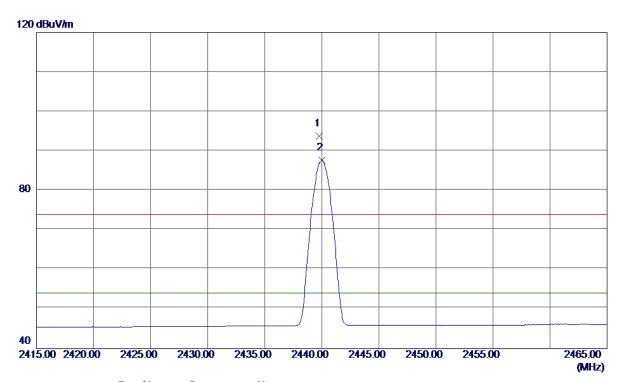
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4803.6750	25. 29	5. 09	30. 38	54.00	-23. 62	AVG	
2	4804. 1250	34. 23	5. 09	39. 32	74. 00	-34. 68	Peak	

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Vertical



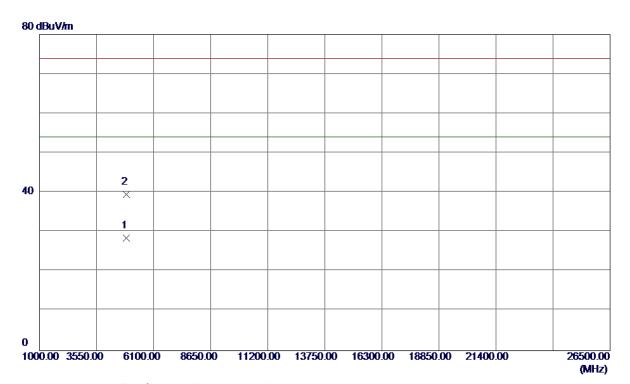
No	. Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2439. 7750	59. 75	34. 03	93. 78	74.00	19. 78	Peak	NO LIMIT
2	* 2440.0000	53. 61	34. 04	87. 65	54.00	33. 65	AVG	NO LIMIT

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Vertical



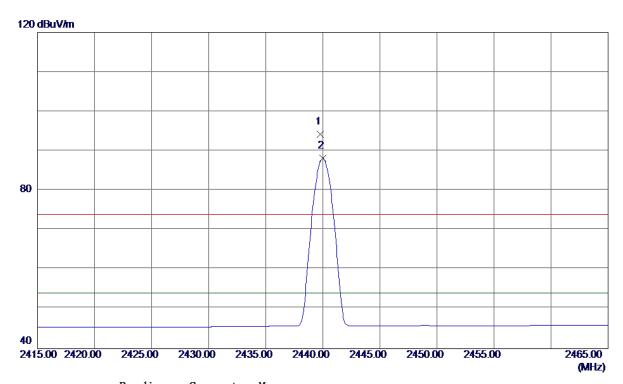
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4880. 0350	22. 96	5. 48	28. 44	54.00	-25. 56	AVG	
2	4880. 0600	33. 97	5. 48	39. 45	74.00	-34. 55	Peak	

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Horizontal



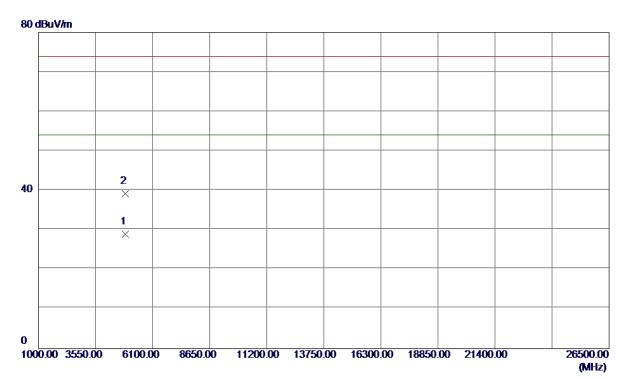
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2439. 7750	60. 23	34. 03	94. 26	74.00	20. 26	Peak	NO LIMIT
2 *	2440. 0000	54. 11	34. 04	88. 15	54.00	34. 15	AVG	NO LIMIT
<u> </u>	2440. 0000	04. 11	34. 04	88. 10	34. 00	34. 10	AVG	NO LIMII

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Horizontal



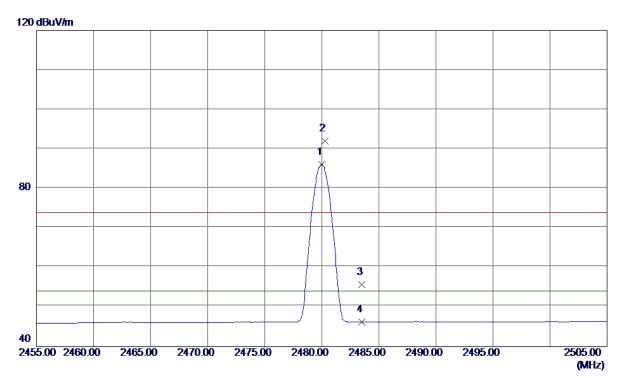
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4879. 9000	23. 42	5. 48	28. 90	54.00	-25. 10	AVG	
2	4879. 9250	33. 67	5. 48	39. 15	74. 00	-34. 85	Peak	

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Vertical



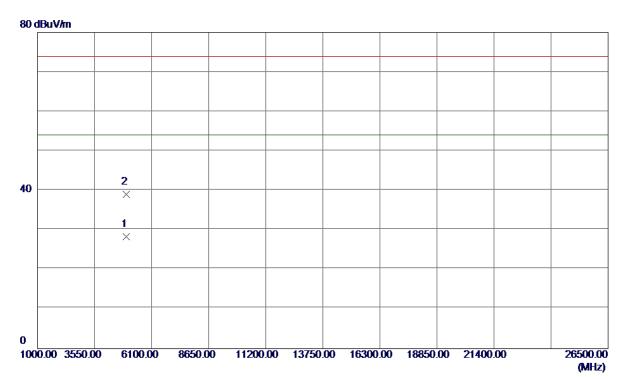
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2479. 9750	51. 88	34. 26	86. 14	54.00	32. 14	AVG	NO LIMIT
2	2480. 2500	57. 74	34. 26	92. 00	74.00	18. 00	Peak	NO LIMIT
3	2483. 5000	21. 45	34. 28	55. 73	74.00	-18. 27	Peak	
4	2483. 5000	11. 99	34. 28	46. 27	54.00	-7. 73	AVG	

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Vertical



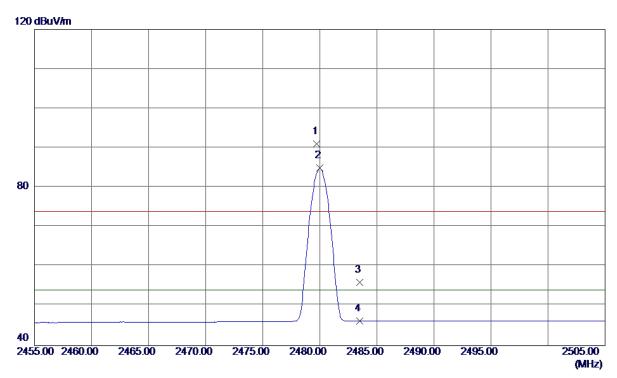
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4959. 9750	22. 43	5. 89	28. 32	54.00	-25. 68	AVG	
2	4960. 2599	33. 15	5. 90	39. 05	74. 00	-34. 95	Peak	

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Horizontal



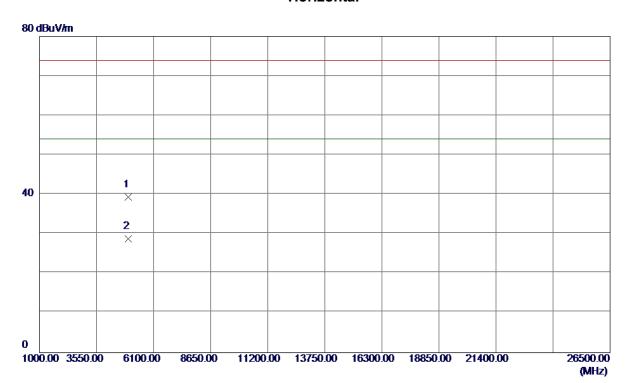
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2479. 7500	56. 74	34. 26	91. 00	74.00	17. 00	Peak	NO LIMIT
2 *	2480. 0000	50. 63	34. 26	84. 89	54.00	30.89	AVG	NO LIMIT
3	2483. 5000	21. 70	34. 28	55. 98	74.00	-18.02	Peak	
4	2483. 5000	11. 93	34. 28	46. 21	54.00	-7. 79	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	4960. 0450	33. 54	5. 89	39. 43	74.00	-34. 57	Peak	
2 *	4960.0700	22. 94	5. 89	28. 83	54.00	-25. 17	AVG	

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ATTACHMENT E - BANDWIDTH				

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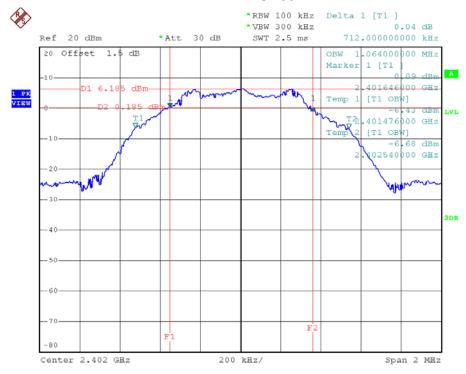




Test Mode: TX Mode

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2402	0.712	1.064	500	Pass
2440	0.704	1.064	500	Pass
2480	0.720	1.068	500	Pass

TX CH00



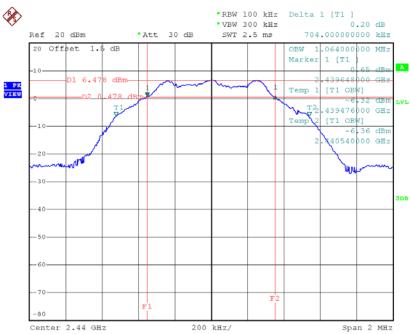
Date: 31.0CT.2016 13:14:12

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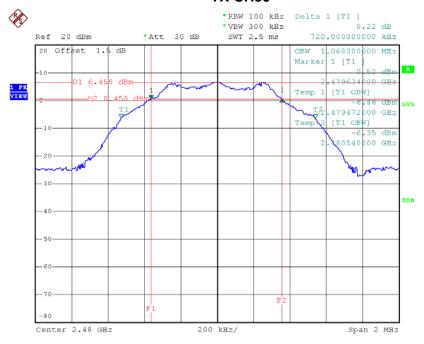






Date: 31.0CT.2016 13:16:37

TX CH39



Date: 31.0CT.2016 13:19:39





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	6.960	0.005	30.00	1.00	Pass
2440	7.380	0.005	30.00	1.00	Pass
2480	7.400	0.005	30.00	1.00	Pass

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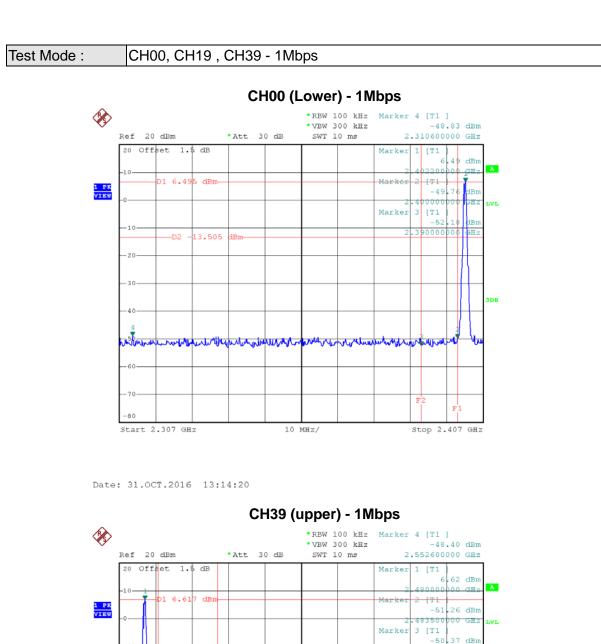


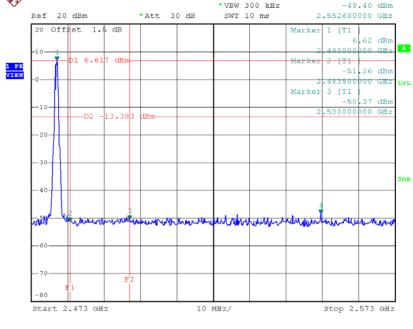
ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION

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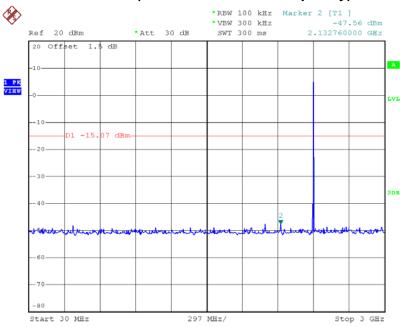
Date: 31.0CT.2016 13:19:48

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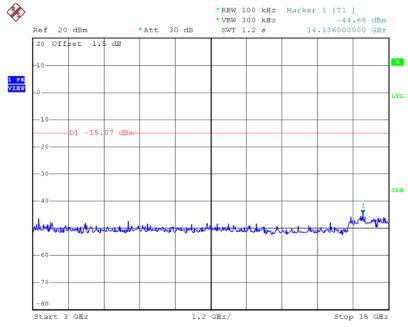






Date: 31.0CT.2016 13:14:34

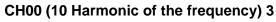
CH00 (10 Harmonic of the frequency) 2

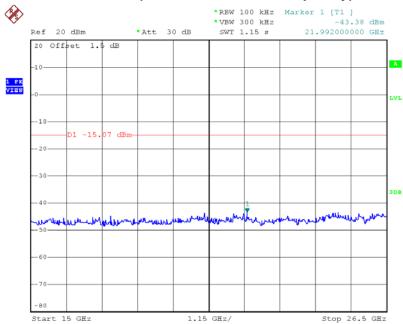


Date: 31.0CT.2016 13:14:43



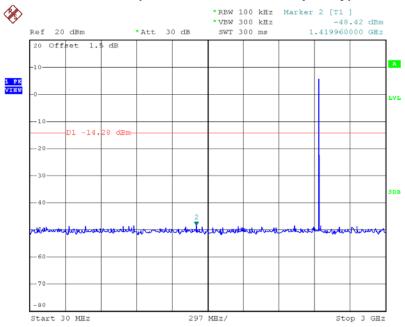






Date: 31.0CT.2016 13:14:51

CH19 (10 Harmonic of the frequency) 1

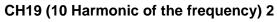


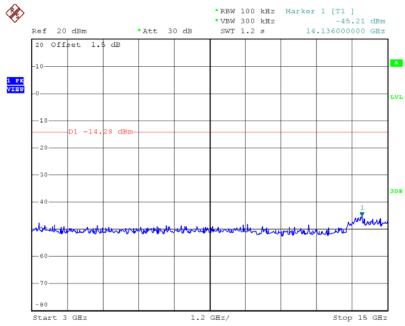
Date: 31.0CT.2016 13:16:52

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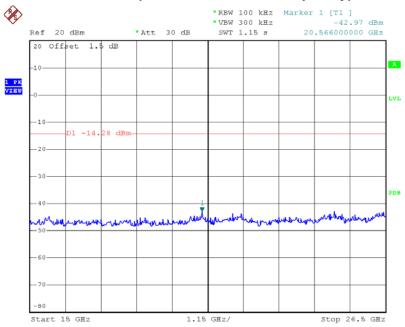






Date: 31.0CT.2016 13:17:00

CH19 (10 Harmonic of the frequency) 3



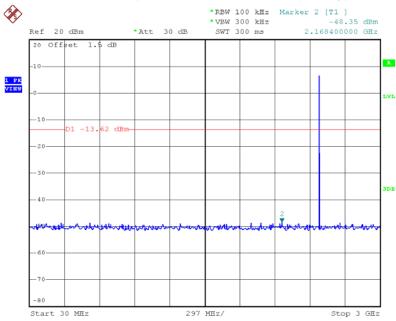
Date: 31.0CT.2016 13:17:08

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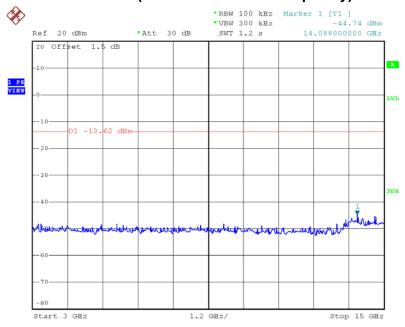






Date: 31.0CT.2016 13:20:01

CH39 (10 Harmonic of the frequency) 2



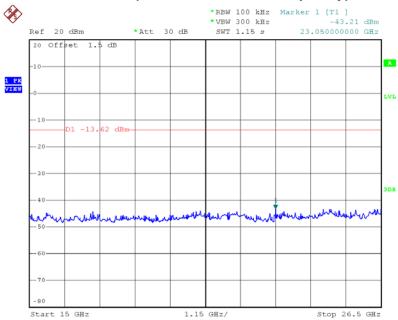
Date: 31.0CT.2016 13:20:10

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CH39 (10 Harmonic of the frequency) 3



Date: 31.0CT.2016 13:20:18

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ATTACHMENT H - POWER SPECTRAL DENSITY TEST

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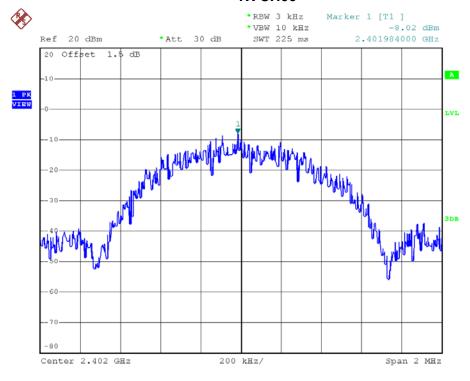




Test Mode: CH00, CH19, CH39 - 1Mbps

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Test Result
2402	-8.020	0.158	8.00	Pass
2440	-7.520	0.177	8.00	Pass
2480	-7.410	0.182	8.00	Pass

TX CH00



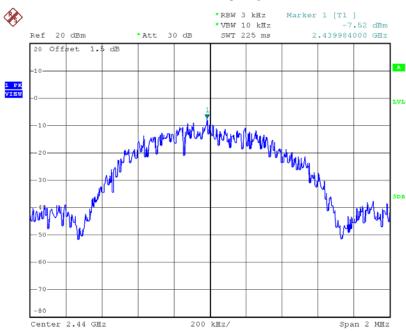
Date: 31.0CT.2016 13:14:57

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Date: 31.0CT.2016 13:17:15

TX CH39



Date: 31.0CT.2016 13:20:24