TEST REPORT



DT&C Co., Ltd.

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1. Report No: DRTFCC2007-0191

2. Customer

· Name: Pittasoft Co., Ltd.

· Address: A 4th floor, ABN Tower, 331, Pangyo-ro, Bundang-gu, Seongnam-si, Gyeonggi-do,

South Korea 13488

3. Use of Report: FCC Original Grant

4. Product Name / Model Name: Car dashcam / DR750X-2CH

FCC ID: YCK-DR750X-2CH

5. Test Method Used: KDB558074 D01v05r02, ANSI C63.10-2013

Test Specification: FCC Part 15.247

6. Date of Test: 2020.04.20 ~ 2020.06.21

7. Location of Test: Permanent Testing Lab On Site Testing

8. Testing Environment: See appended test report.

9 Test Result: Refer to the attached test result.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated.

Affirmation

Tested by

Name: JungWoo Kim

Reviewed by

Name: JaeJin Lee

2020.07.03.

DT&C Co., Ltd.

Not abided by KS Q ISO / IEC 17025 and KOLAS accreditation.

If this report is required to confirmation of authenticity, please contact to report@dtnc.net



Test Report Version

Test Report No.	Date	Description	Revised by	Reviewed by
DRTFCC2007-0191	Jul. 03, 2020	Initial issue	JungWoo Kim	JaeJin Lee



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1. EUT DESCRIPTION

FCC Equipment Class	Digital Transmission System(DTS)
Product	Car dashcam
Model Name	DR750X-2CH
Add Model Name	DR750X-1CH, DR750X-1CH Plus, DR750G-1CH Pro, DR750X-2CH IR, DR750X-2CH Plus, DR750X-2CH Truck, DR750G-2CH Pro, DR750G-2CH, DR750X-3CH, DR750X-3CH, DR750X-3CH, DR750X-3CH, DR750X-3CH
Hardware Version	1.0
Software Version	1.0
Power Supply	DC 12 V , 24 V
Frequency Range	■ 802.11b/g/n(20 MHz) : 2 412 MHz ~ 2 462 MHz ■ 802.11n(40 MHz) : 2 422MHz ~ 2 452 MHz
Max. RF Output Power	2.4GHz Band • 802.11b : 17.04 dBm • 802.11g : 20.85 dBm • 802.11n (HT20) : 20.50 dBm • 802.11n (HT40) : 19.73 dBm
Modulation Type	■ 802.11b: CCK, DSSS ■ 802.11g/n/ac: OFDM
Antenna Specification	Antenna type: WIFI Dual Chip Antenna Antenna gain: 1.88 dBi



2. INFORMATION ABOUT TESTING

2.1 Test mode

Test	Worst case data rate	Tested Frequency(MHz)				
mode	Wordt dade data rate	Lowest	Middle	Highest		
TM 1	802.11b 11 Mbps	2 412	2 437	2 462		
TM 2	802.11g 54 Mbps	2 412	2 437	2 462		
TM 3	802.11n(HT20) MCS 7	2 412	2 437	2 462		
TM 4	802.11n(HT40) MCS 7	2 422	2 437	2 452		

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2.2 Auxiliary equipment

Equipment	Model No.	Model No. Serial No. N		Note
Notebook PC	6235ANHMW	JGL491UD801408V	Samsung	FCC ID: A3L6235ANH
-	-	-	-	-

Note 1: The worst case data rate is determined as above test mode according to the power measurements.

Note 2: The power measurement results for all modes and data rate were reported.



2.3 Tested environment

Temperature	: 20 °C ~ 25 °C
Relative humidity content	: 35 % ~ 45 %
Details of power supply	: DC 12, 24 V

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2.4 EMI suppression Device(s) / Modifications

EMI suppression device(s) added and/or modifications made during testing \rightarrow None

2.5 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with requirements of ANSI C 63.4-2014 and ANSI C 63.10-2013. All measurement uncertainty values are shown with a coverage factor of k = 2 to indicate a 95 % level of confidence.

Test items	Measurement uncertainty
Transmitter Output Power	0.7 dB (The confidence level is about 95 %, k = 2)
Conducted spurious emission	0.9 dB (The confidence level is about 95 %, k = 2)
Radiated spurious emission (1 GHz Below)	4.9 dB (The confidence level is about 95 %, k = 2)
Radiated spurious emission (1 GHz ~ 18 GHz)	5.1 dB (The confidence level is about 95 %, k = 2)
Radiated spurious emission (18 GHz Above)	5.3 dB (The confidence level is about 95 %, k = 2)



3. SUMMARY OF TESTS

FCC Part	RSS Std.	Parameter	Limit	Test Condition	Status Note 1
15.247(a)	RSS-247 [5.2]	6 dB Bandwidth	> 500 kHz		С
15.247(b)	RSS-247 [5.4]	Transmitter Output Power	< 1 Watt		С
15.247(d)	RSS-247 [5.5]	Out of Band Emissions / Band Edge			С
15.247(e)	RSS-247 [5.2]	Transmitter Power Spectral < 8 dBm/3 kHz			С
-	RSS-Gen [6.7]	Occupied Bandwidth (99 %)	RSS-Gen(6.7)		NA
15.247(d) 15.205 15.209	RSS-247 [5.5] RSS-GEN [8.9] RSS-GEN [8.10]	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	FCC 15.209 limits	Radiated	С
15.207	RSS-Gen [8.8]	AC Line Conducted Emissions	FCC 15.207 limits	AC Line Conducted	NA Note3
15.203	RSS-Gen [8.3]	Antenna Requirements	FCC 15.203	-	С

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Note 1: C=Comply NC=Not Comply NT=Not Tested NA=Not Applicable

Note 2: For radiated emission tests below 30 MHz were performed on semi-anechoic chamber which is correlated with OATS.

Note 3: This device is installed in a car. Therefore the power source is a battery of car.



4. TEST METHODOLOGY

The measurement procedures described in the ANSI C63.10-2013 and the guidance provided in KDB558074 D01v05r02 were used in measurement of the EUT.

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The EUT was tested per the guidance of KDB558074 D01v05r02. And ANSI C63.10-2013 was used to reference appropriate EUT setup and maximizing procedures of radiated spurious emission and AC line conducted emission testing.

4.1 EUT configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

4.2 EUT exercise

The EUT was operated in the test mode to fix the Tx frequency that was for the purpose of the measurements. According to its specifications, the EUT must comply with the requirements of the Section 15.207, 15.209 and 15.247 under the FCC Rules Part 15 Subpart C.

4.3 General test procedures

Conducted Emissions

The power-line conducted emission test procedure is not described on the KDB558074 D01v05r02.

So this test was fulfilled with the requirements in Section 6.2 of ANSI C63.10-2013.

The EUT is placed on the wooden table, which is 0.8 m above ground plane and the conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-peak and Average detector

Radiated Emissions

Radiated tests were performed with ANSI C63.10-2013.

The EUT is placed on a non-conductive table. For emission measurements at or below 1 GHz, the table height is 80 cm. For emission measurements above 1 GHz, the table height is 1.5 m. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3 m away from the receiving antenna, which varied from 1 m to 4 m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.

4.4 Description of test modes

The EUT has been tested with all modes of operating conditions to determine the worst case emission characteristics. A test program is used to control the EUT for staying in continuous transmitting mode.



5. INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

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6. FACILITIES AND ACCREDITATIONS

6.1 Facilities

DT	C	Co.,	Ltd.

The 3 m test site and conducted measurement facility used to collect the radiated data are located at the 42, Yurim-ro, 154beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea 17042.

The test site complies with the requirements of § 2.948 according to ANSI C63.4-2014.

- FCC MRA Designation No.: KR0034

www.dtnc.net	
Telephone	+ 82-31-321-2664
FAX	+ 82-31-321-1664

6.2 Equipment

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, bi-conical, log periodic, bi-log, and/or ridged waveguide, loop, horn. Spectrum analyzers with pre-selectors and peak, quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers. Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

7. ANTENNA REQUIREMENTS

7.1 According to FCC 47 CFR §15.203

An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

The antenna type is a SMD antenna. The antenna is attached permanently using soldering. (Refer to Internal Photo file.)



8. TEST RESULT

8.1 6dB bandwidth

■ Test Requirements and limit, §15.247(a)

The bandwidth at 6 dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the receive antenna while the EUT is operating in transmission mode at the appropriate frequencies.

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The minimum permissible 6 dB bandwidth is 500 kHz.

■ Test Configuration:

Refer to the APPENDIX I.

■ Test Procedure:

- KDB558074 D01v05r02 Section 8.2
- ANSI C63.10-2013 Section 11.8.2
- 1. Set resolution bandwidth (RBW) = 100 kHz.
- 2. Set the video bandwidth (VBW) \geq 3 x RBW.

(RBW: 100 kHz / VBW: 300 kHz)

- 3. Detector = Peak.
- 4. Trace mode = Max hold.
- 5. Sweep = Auto couple.
- 6. Allow the trace to stabilize.
- 7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

■ Test Results: Comply

Test Mode	Frequency	Test Resu	ilts[MHz]
Test mode	rioquency	12 V	24 V
	Lowest	9.31	9.06
TM 1	Middle	10.05	9.31
	Highest	9.22	10.09
	Lowest	16.36	16.41
TM 2	Middle	16.38	16.16
	Highest	16.38	16.42
	Lowest	17.55	17.11
TM 3	Middle	17.61	17.47
	Highest	17.59	17.38
	Lowest	35.52	35.52
TM 4	Middle	35.68	35.82
	Highest	35.71	35.84



RESULT PLOTS

- Tested Power Supply: 12 V

6 dB Bandwidth



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6 dB Bandwidth



6 dB Bandwidth TM 1 & Highest



6 dB Bandwidth

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6 dB Bandwidth TM 2 & Middle



6 dB Bandwidth TM 2 & Highest



6 dB Bandwidth

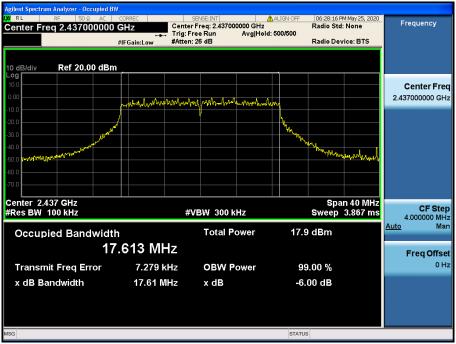




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6 dB Bandwidth

TM 3 & Middle



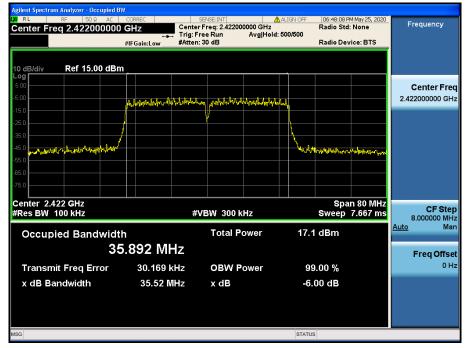
6 dB Bandwidth TM 3 & Highest



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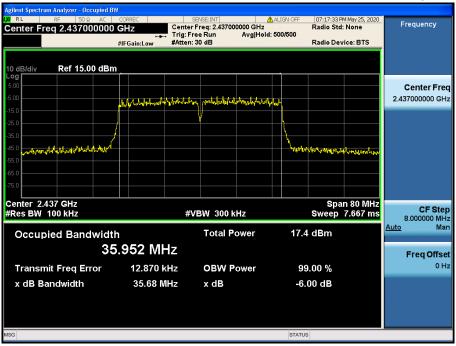
6 dB Bandwidth





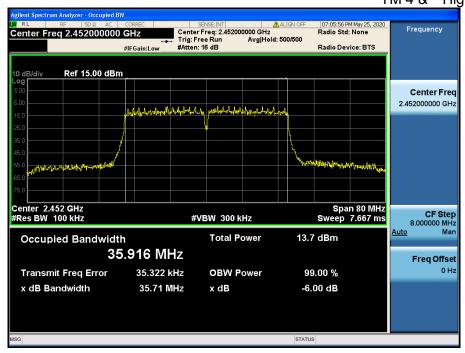
6 dB Bandwidth

TM 4 & Middle





6 dB Bandwidth TM 4 & Highest





- Tested Power Supply: 24 V

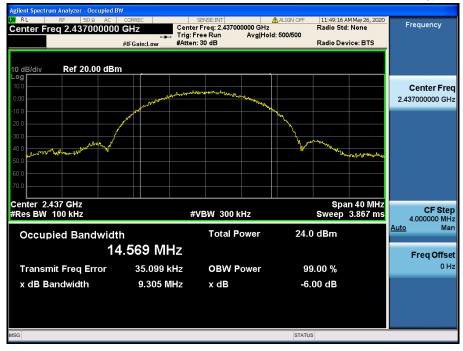
6 dB Bandwidth



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6 dB Bandwidth



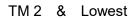


6 dB Bandwidth TM 1 & Highest





6 dB Bandwidth

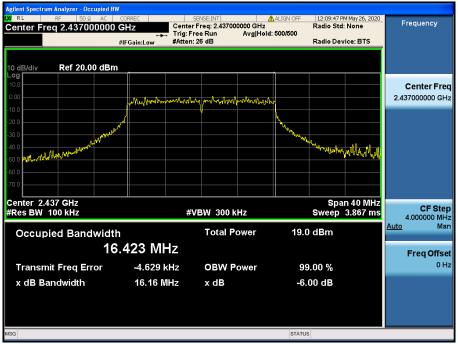




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6 dB Bandwidth

TM 2 & Middle





6 dB Bandwidth TM 2 & Highest





6 dB Bandwidth

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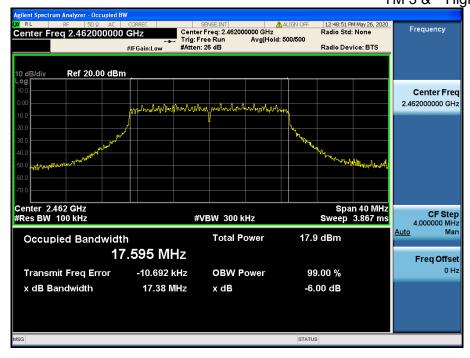


6 dB Bandwidth





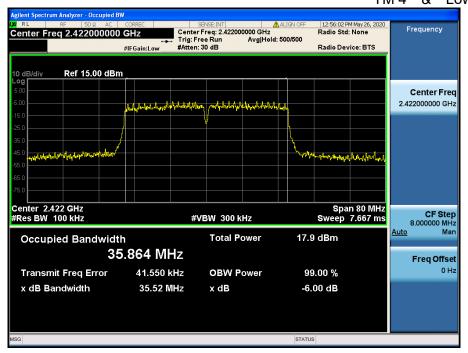
6 dB Bandwidth TM 3 & Highest





6 dB Bandwidth TM 4 & Lowest

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6 dB Bandwidth TM 4 & Middle





6 dB Bandwidth TM 4 & Highest

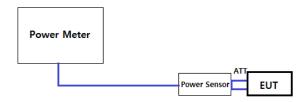


8.2 Maximum peak conducted output power

■ Test Requirements and limit, §15.247(b)

The maximum permissible conducted output power is 1 Watt.

■ Test Configuration



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■ Test Procedure

- KDB558074 D01v05r02 Section 8.3.1.3
- ANSI C63.10-2013 Section 11.9.1.3

PKPM1 Peak power meter method

- 1. The maximum conducted output powers were measured using a broadband peak RF power meter which has greater video bandwidth than DUT's DTS bandwidth and utilize a fast-responding diode detector.
- KDB558074 D01v05r02 Section 8.3.2.3
- ANSI C63.10-2013 Section 11.9.2.3.2

Method AVGPM-G

The average conducted output powers were measured using a wideband gated RF power meter provided that
the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its
maximum power control level. Since this measurement is made only during the ON time of the transmitter, no
duty cycle correction is required.



■ Test Results: Comply

- Tested Power Supply: 12 V

Eron			Maxim	um Peak Co	nducted Ou	tput Power	(dBm) for <u>8</u>	02.11b	
Freq. (MHz)	Det.				Data Rat	e [Mbps]			
		1	2	5.5	11	-		-	-
2.412	PK	15.70	15.73	15.82	16.20	-	-	-	-
2 412	AV	13.47	13.52	13.61	13.94	-	-	-	-
2 437	PK	16.18	16.20	16.32	17.04	-	-	-	-
2 437	AV	13.97	14.06	14.11	14.58	-	-	-	-
2.462	PK	16.25	16.38	16.41	16.78	-	-	-	-
2 462	AV	13.44	13.59	13.82	14.20	-	-	-	-

Free		Maximum Peak Conducted Output Power (dBm) for 802.11g										
Freq. (MHz)	Det.		Data Rate [Mbps]									
		6	9	12	18	24	36	48	54			
2 412	PK	19.32	19.37	19.49	19.64	19.75	19.86	19.94	20.23			
2412	AV	8.94	9.22	9.43	9.56	9.89	10.06	10.14	10.26			
2 437	PK	19.53	19.76	20.12	20.45	20.63	20.71	20.76	20.85			
2 437	AV	9.51	9.85	10.09	10.33	10.51	10.64	10.75	10.83			
2 462	PK	19.49	19.56	19.87	20.21	20.46	20.53	20.54	20.63			
2 402	AV	9.56	9.86	9.95	10.32	10.44	10.57	10.62	10.68			

From			Maximum	Peak Condu	cted Outpu	t Power (dB	m) for <u>802.</u>	11n(HT20)			
Freq. (MHz)	Det.	Data Rate [MCS]									
		0	1	2	3	4	5	6	7		
2 412	PK	18.63	19.14	19.25	19.48	19.68	19.74	19.96	20.26		
2 412	AV	9.24	9.49	9.61	9.85	9.95	10.02	10.06	10.11		
2 437	PK	18.73	19.21	19.46	19.68	19.83	19.91	20.21	20.50		
2 437	AV	9.34	9.69	9.93	9.97	10.09	10.34	10.38	10.41		
2 462	PK	18.13	18.34	18.51	18.67	18.83	19.04	19.17	19.48		
2 402	AV	9.16	9.37	9.42	9.48	9.54	9.79	9.83	9.91		



F== a:			Maximum	Peak Condu	cted Outpu	t Power (dB	m) for <u>802.</u>	11n(HT40)			
Freq. (MHz)	Det.	Data Rate [MCS]									
		0	1	2	3	4	5	6	7		
2 422	PK	18.63	18.75	18.81	18.89	18.94	19.03	19.07	19.16		
2 422	AV	9.04	9.26	9.33	9.49	9.52	9.64	9.73	9.77		
2 437	PK	18.64	19.23	19.29	19.38	19.55	19.59	19.66	19.73		
2 437	AV	9.43	9.81	9.84	9.92	9.98	10.09	10.16	10.20		
2 452	PK	14.31	14.47	14.49	14.58	14.63	14.78	14.83	14.95		
2 452	AV	5.83	5.86	5.91	5.97	6.07	6.12	6.27	6.32		

- Tested Power Supply: 24 V

F		Maximum Peak Conducted Output Power (dBm) for 802.11b									
Freq. (MHz)	Det.	Data Rate [Mbps]									
		1	2	5.5	11	-	-	-	-		
2 412	PK	15.57	15.64	15.73	16.14	-	-	-	-		
2412	AV	13.43	13.51	13.54	13.90	1	-	-	-		
2.427	PK	16.37	16.46	16.63	16.89	-	-	-	-		
2 437	AV	14.17	14.22	14.24	14.51	-	-	-	-		
2 462	PK	16.29	16.32	16.47	16.69	-	-	-	-		
2 402	AV	13.67	13.72	13.78	14.13	-	-	-	-		

Free			Maxim	um Peak Co	nducted Ou	tput Power	(dBm) for <u>8</u>	02.11g	
Freq. (MHz)	Det.								
		6	9	12	18	24	36	48	54
2 412	PK	19.33	19.46	19.54	19.62	19.83	19.87	20.04	20.16
2412	AV	8.92	9.16	9.41	9.53	9.86	9.95	10.15	10.21
2.427	PK	19.46	19.84	20.14	20.41	20.61	20.64	20.68	20.83
2 437	AV	9.53	9.89	10.01	10.32	10.50	10.63	10.71	10.79
2 462	PK	19.52	19.63	19.89	20.16	20.42	20.51	20.52	20.57
2 402	AV	9.62	9.87	9.95	10.35	10.48	10.58	10.60	10.62

From			Maximum	Peak Condu	cted Outpu	t Power (dB	m) for <u>802.</u>	11n(HT20)			
Freq. (MHz)	Det.	Data Rate [MCS]									
		0	1	2	3	4	5	6	7		
2 412	PK	18.61	19.05	19.14	19.43	19.54	19.71	19.93	20.22		
2412	AV	9.23	9.48	9.62	9.81	9.93	9.95	10.03	10.04		
2 437	PK	18.82	19.31	19.53	19.69	19.80	19.85	20.15	20.46		
2 437	AV	9.47	9.73	9.91	9.95	10.15	10.21	10.24	10.32		
2 462	PK	18.15	18.44	18.62	18.72	18.93	19.11	19.24	19.43		
2 402	AV	9.26	9.40	9.44	9.53	9.56	9.76	9.81	9.85		



F		Maximum Peak Conducted Output Power (dBm) for 802.11n(HT40)										
Freq. (MHz)	Det.	Data Rate [MCS]										
		0	1	2	3	4	5	6	7			
2 422	PK	18.59	18.74	18.76	18.81	18.93	18.94	19.01	19.05			
2 422	AV	9.11	9.24	9.35	9.46	9.56	9.62	9.72	9.73			
2 437	PK	18.69	19.21	19.25	19.36	19.48	19.52	19.62	19.65			
2 437	AV	9.56	9.80	9.85	9.93	9.97	10.07	10.12	10.14			
2 452	PK	14.29	14.41	14.45	14.52	14.63	14.75	14.81	14.92			
2 452	AV	5.81	5.88	5.92	5.96	6.03	6.15	6.21	6.30			

8.3 Maximum power spectral density

■ Test requirements and limit, §15.247(e)

The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

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■ Test Configuration:

Refer to the APPENDIX I.

■ Test Procedure

- KDB558074 D01v05r02 Section 8.4
- ANSI C63.10-2013 Section 11.10.2

Method PKPSD (peak PSD)

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS bandwidth.
- 3. Set the RBW to : $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$
- 4. Set the VBW ≥ 3 x RBW
- 5. Detector = Peak
- 6. Sweep time = Auto couple
- 7. Trace mode = **Max hold.**
- 8. Allow trace to fully stabilize.
- 9. Use the **peak marker function** to determine the maximum amplitude level within the RBW.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

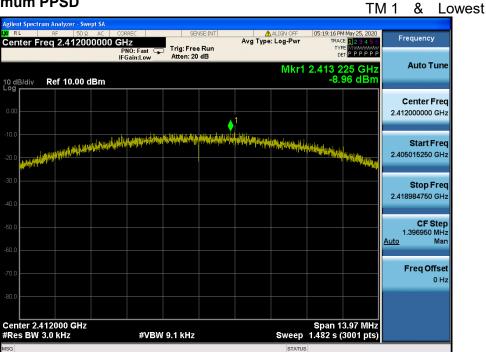
■ Test Results: Comply

Took Mode	F	DDW	PKPSD [dBm]			
Test Mode	Frequency	RBW	12 V	24 V		
	Lowest	3 kHz	-8.96	-8.06		
TM 1	Middle	3 kHz	-7.63	-7.79		
	Highest	3 kHz	-7.86	-8.10		
	Lowest	3 kHz	-13.99	-14.92		
TM 2	Middle	3 kHz	-14.93	-13.71		
	Highest	3 kHz	-14.78	-13.49		
	Lowest	3 kHz	-15.70	-15.50		
TM 3	Middle	3 kHz	-15.86	-15.23		
	Highest	3 kHz	-15.95	-15.03		
	Lowest	3 kHz	-19.98	-20.14		
TM 4	Middle	3 kHz	-18.81	-19.69		
	Highest	3 kHz	-23.98	-23.02		

RESULT PLOTS

- Tested Power Supply: 12 V

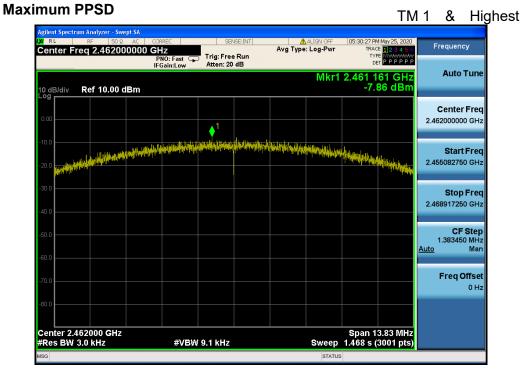
Maximum PPSD



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Maximum PPSD TM 1 & Middle

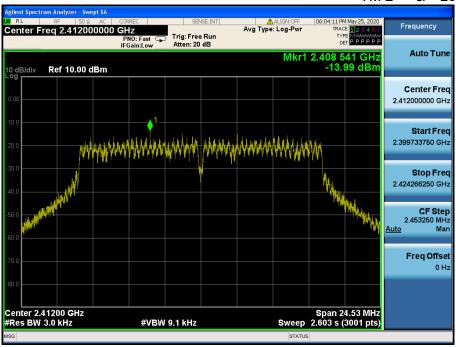




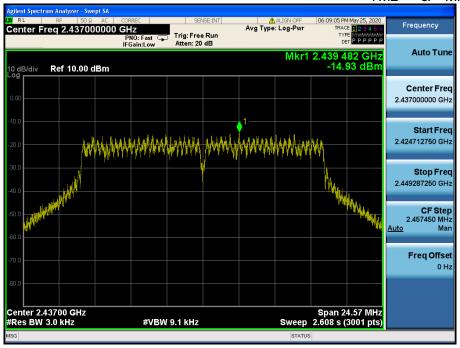
Maximum PPSD TM 2

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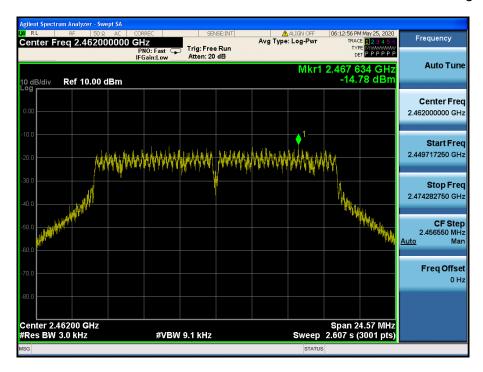


Maximum PPSD TM2 & Middle



Maximum PPSD

TM 2 & Highest



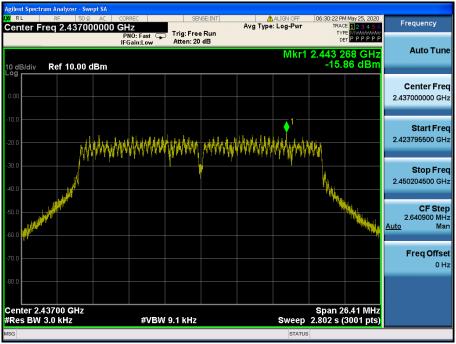
Maximum PPSD





Maximum PPSD

TM 3 & Middle



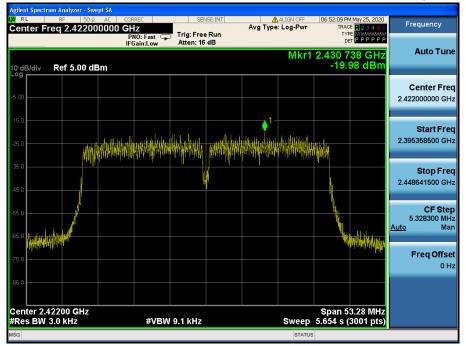
Maximum PPSD





Maximum PPSD

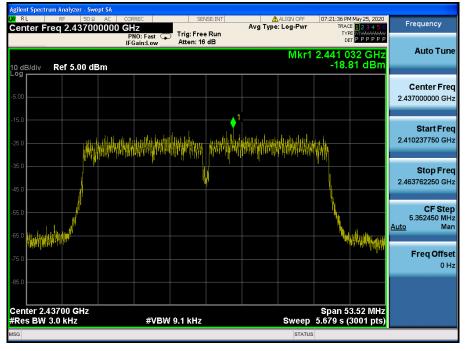




Report No.: DRTFCC2007-0191

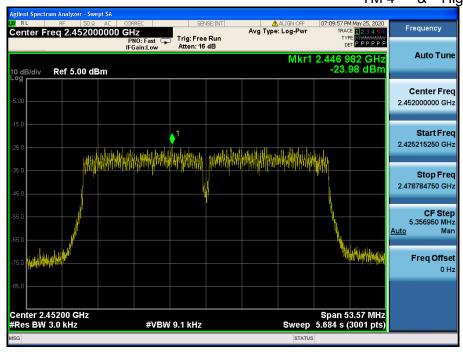
Maximum PPSD

TM 4 & Middle





Maximum PPSD TM 4 & Highest

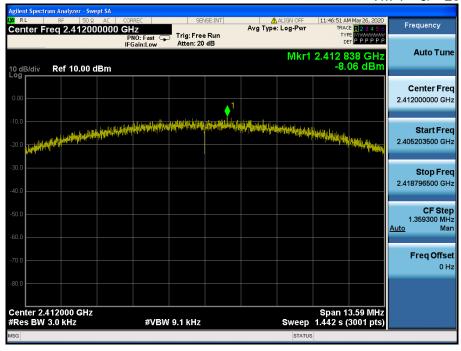




- Tested Power Supply: 24 V

Maximum PPSD





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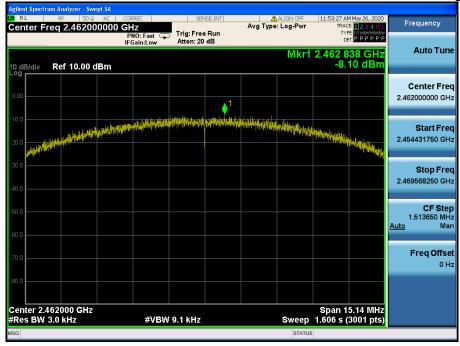
Maximum PPSD

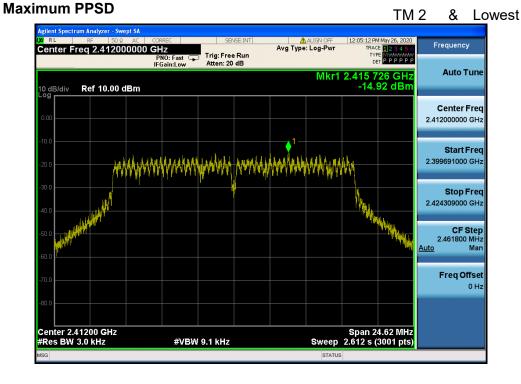
TM 1 & Middle



Maximum PPSD











Maximum PPSD





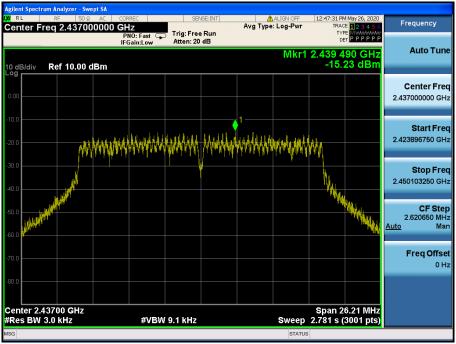
Maximum PPSD





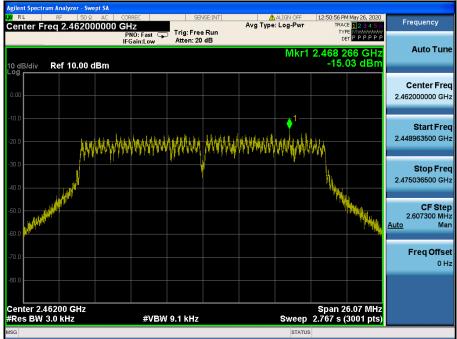
Maximum PPSD

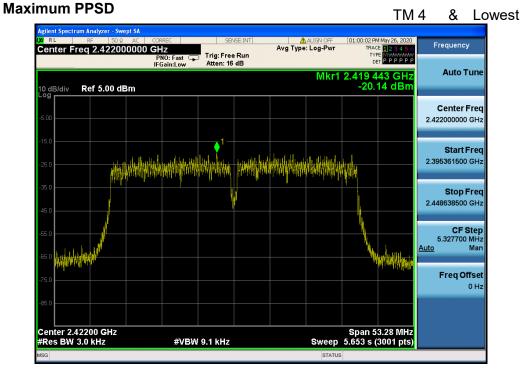
TM 3 & Middle



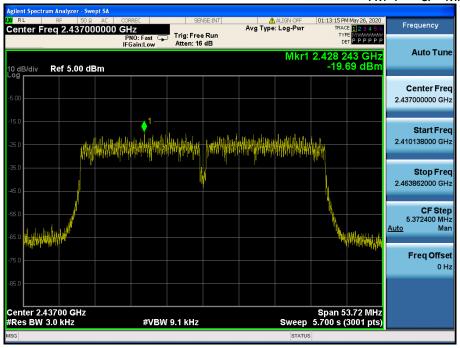
Maximum PPSD





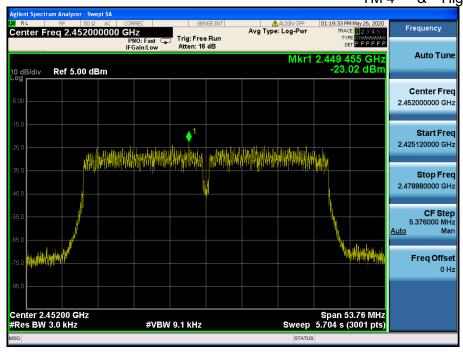


Maximum PPSD TM 4 & Middle





Maximum PPSD TM 4 & Highest





8.4 Out of band emissions at the band edge / conducted spurious emissions

■ Test requirements and limit, §15.247(d)

§15.247(d) specifies that in any 100 kHz bandwidth outside of the authorized frequency band, the power shall be attenuated according to the following conditions:

If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to 15.247(b)(3) requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level.

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If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to **15.247(b)(3)** requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in band average PSD level. In either case, attenuation to levels below the general emission limits specified in **§15.209(a)** is not required.

■ Test Configuration:

Refer to the APPENDIX I.

■ Test Procedure

- KDB558074 D01v05r02 Section 8.5
- ANSI C63.10-2013 Section 11.11

- Reference level measurement

- 1. Set instrument center frequency to DTS channel center frequency.
- 2. Set the span to ≥ 1.5 times the DTS bandwidth.
- 3. Set the RBW = 100 kHz.
- 4. Set the VBW \geq 3 x RBW.
- 5. Detector = Peak.
- 6. Sweep time = Auto couple.
- 7. Trace mode = Max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum PSD level.

- Emission level measurement

- 1. Set the center frequency and span to encompass frequency range to be measured.
- 2. Set the RBW = 100 kHz. (Actual 1 MHz, See below note)
- 3. Set the VBW \geq 3 x RBW. (Actual 3 MHz, See below note)
- 4. Detector = **Peak**.
- 5. Ensure that the number of measurement points ≥ Span / RBW.
- 6. Sweep time = Auto couple.
- 7. Trace mode = Max hold.
- 8. Allow the trace to stabilize. (this may take some time, depending on the extent of the span)
- 9. Use the peak marker function to determine the maximum amplitude level.

Note: The conducted spurious emission was tested with below settings.

Frequency range: 9 kHz ~ 30 MHz

RBW = 100 kHz, VBW = 300 kHz, SWEEP TIME = AUTO, DETECTOR = PEAK, TRACE = MAX HOLD, SWEEP POINT : 40001

Frequency range: 30 MHz ~ 10 GHz, 10 GHz ~25 GHz

RBW = 1 MHz, VBW = 3 MHz, SWEEP TIME = AUTO, DETECTOR = PEAK, TRACE = MAX HOLD, SWEEP POINT : 40001

LIMIT LINE = 20 dB below of the reference level of above measurement procedure Step 2. (RBW = 100 kHz, VBW = 300 kHz)

If the emission level with above setting was close to the limit (ie, less than 3 dB margin) then zoom scan is required using RBW = 100 kHz, VBW = 300 kHz, SPAN = 100 MHz and BINS = 2001 to get accurate emission level within 100 kHz BW.

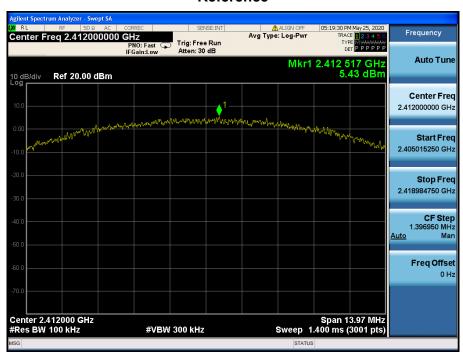
RESULT PLOTS

- Tested Power Supply: 12 V

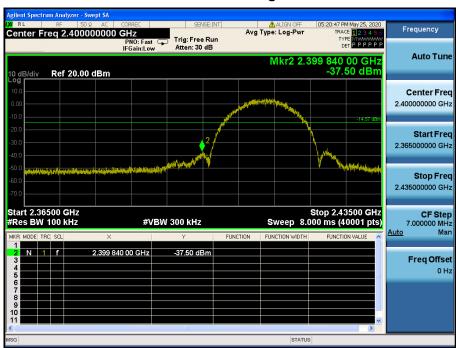
TM 1 & Lowest

Reference

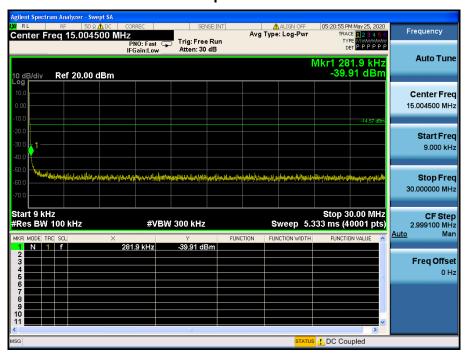
Report No.: DRTFCC2007-0191

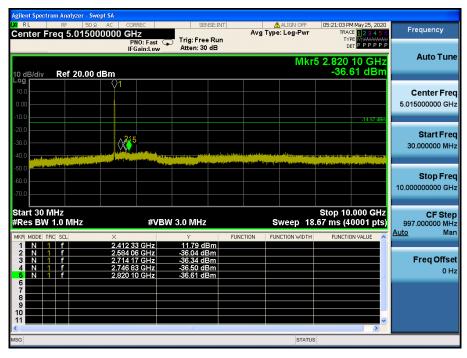


Low Band-edge

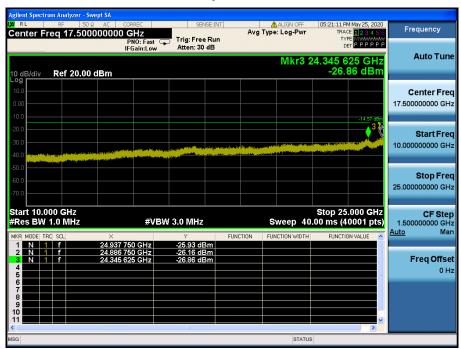










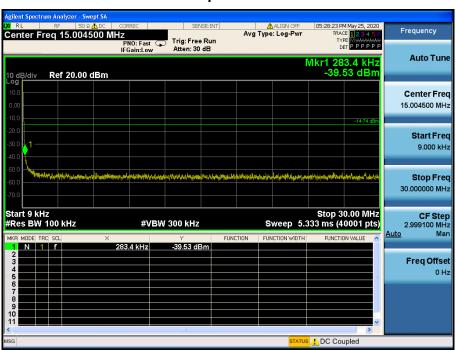


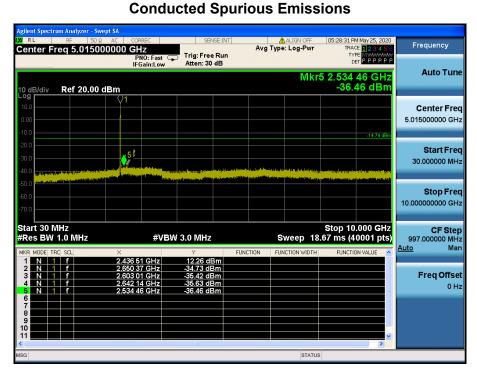
TM 1 & Middle

Reference

Report No.: DRTFCC2007-0191









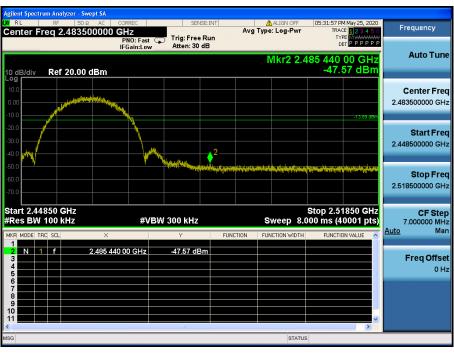
TM 1 & Highest

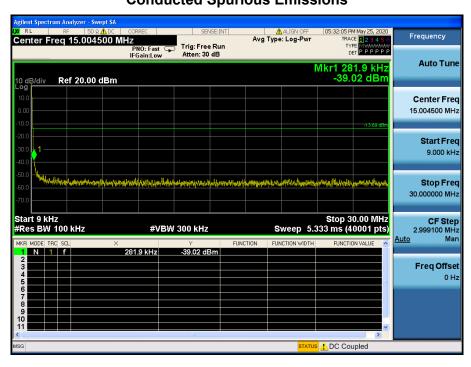
Reference

Report No.: DRTFCC2007-0191



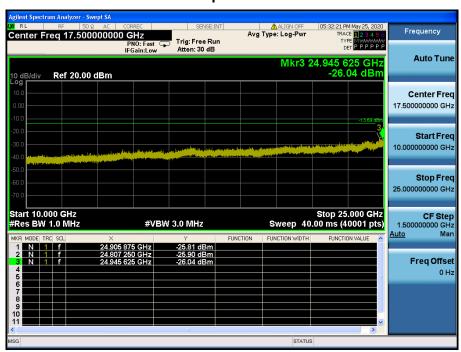
High Band-edge







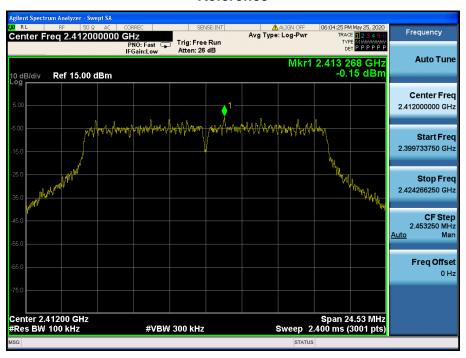




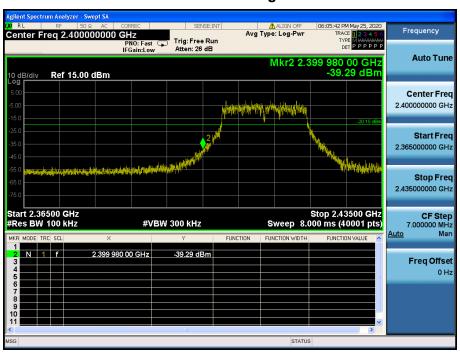


TM 2 & Lowest

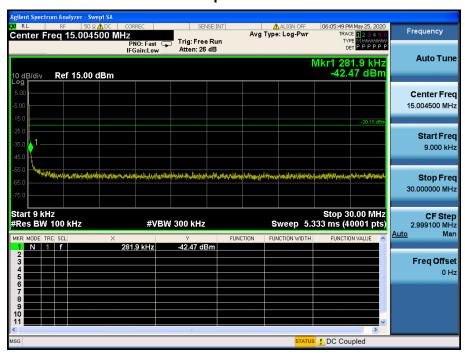
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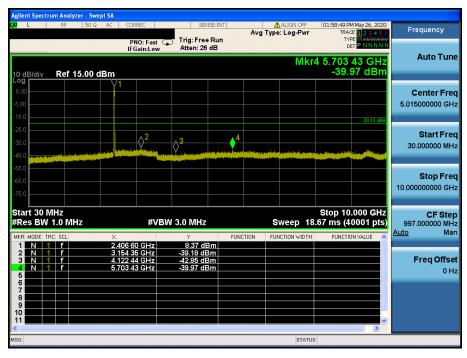


Low Band-edge











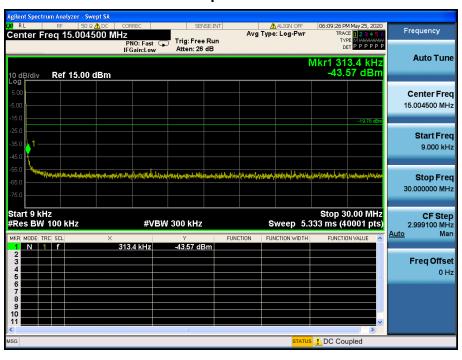
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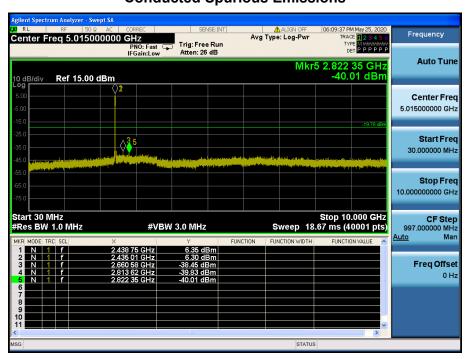
Reference

&

Middle





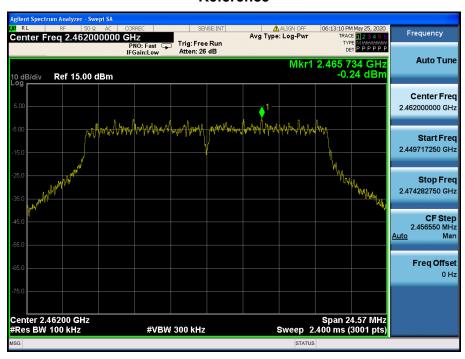




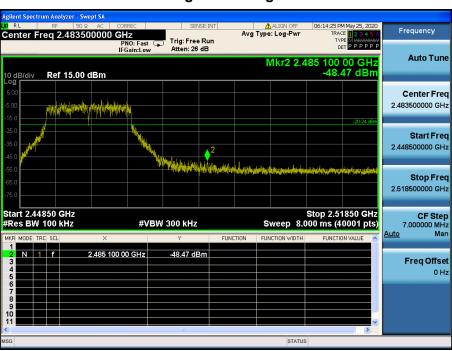
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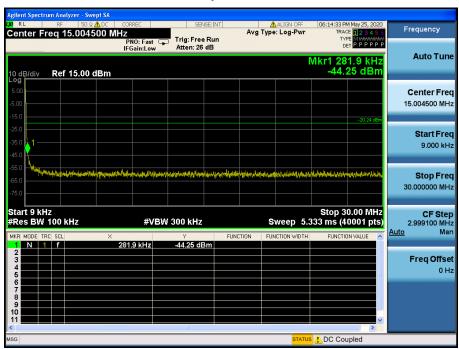
& Highest

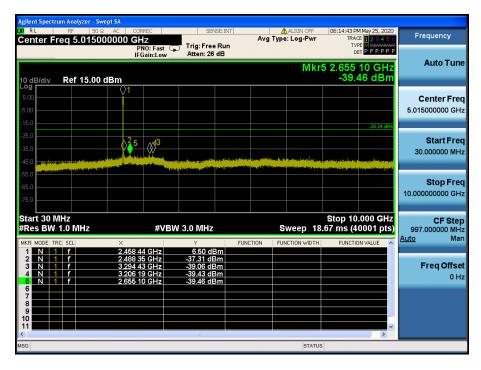


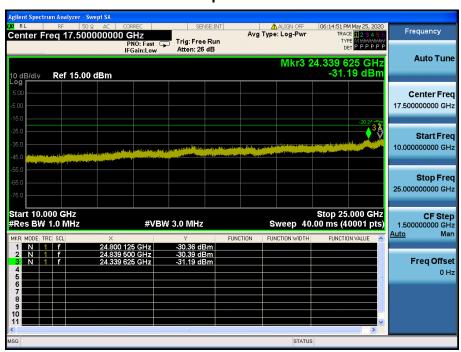
High Band-edge







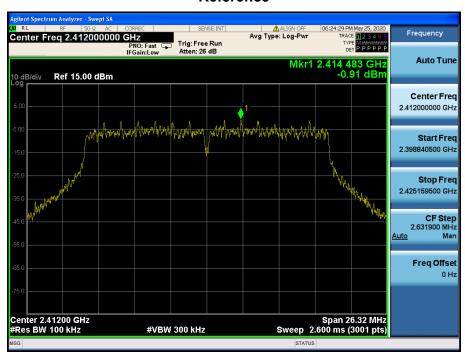




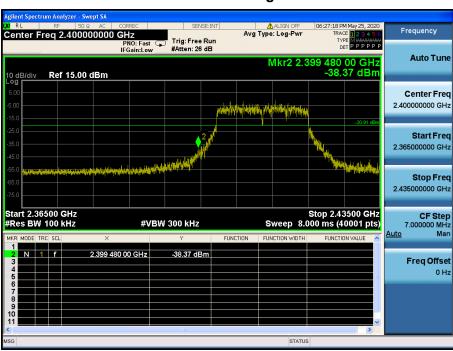
TM 3 & Lowest

Report No.: DRTFCC2007-0191

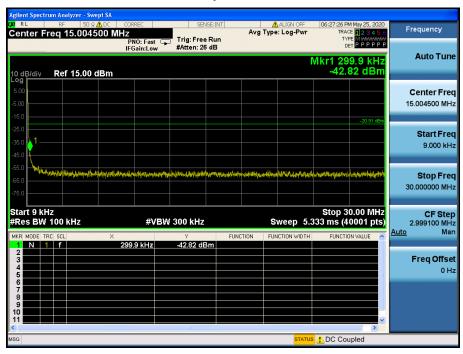
Reference



Low Band-edge







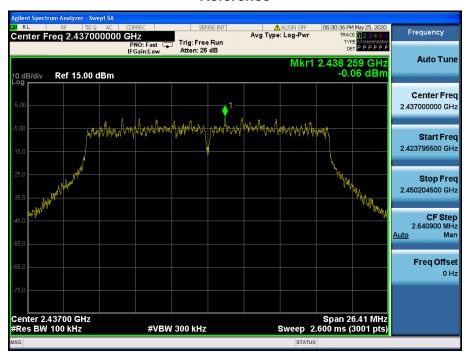


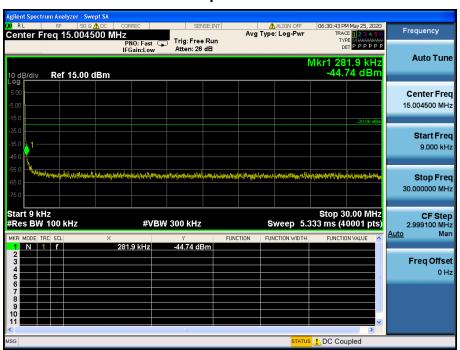




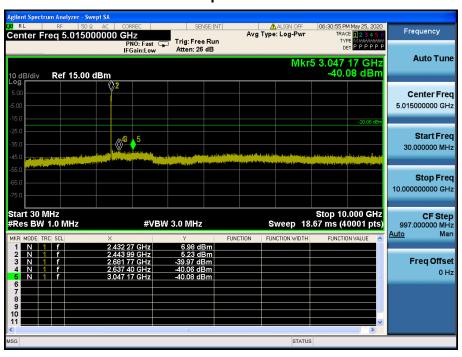
TM 3 & Middle

Reference







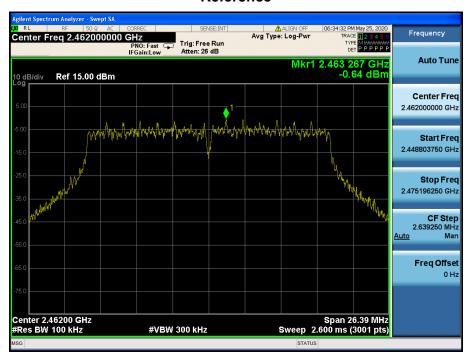




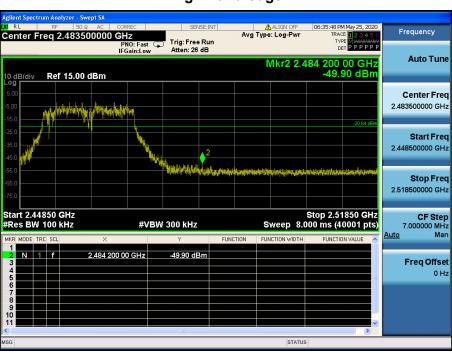
TM 3 & Highest

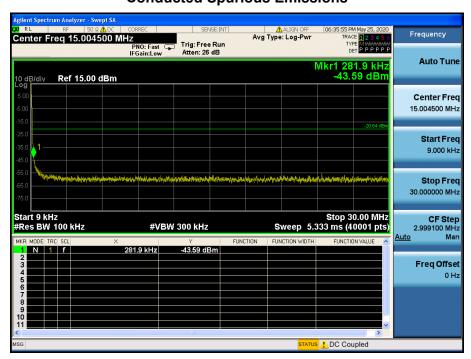
Reference

Report No.: DRTFCC2007-0191



High Band-edge





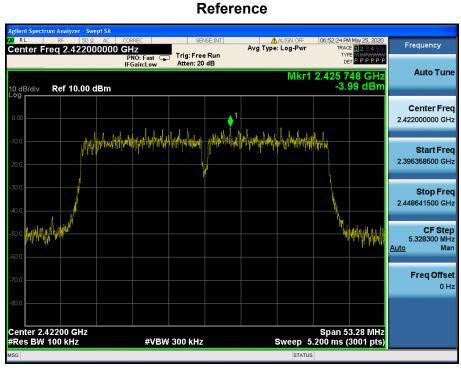




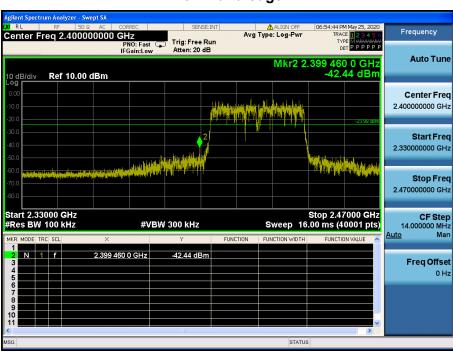


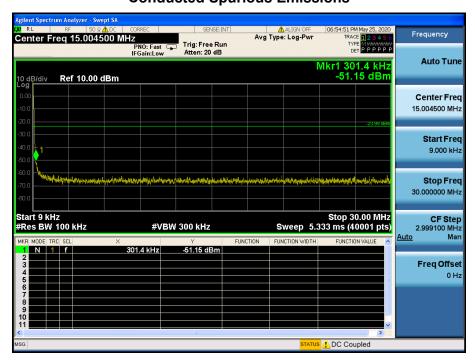
& Lowest

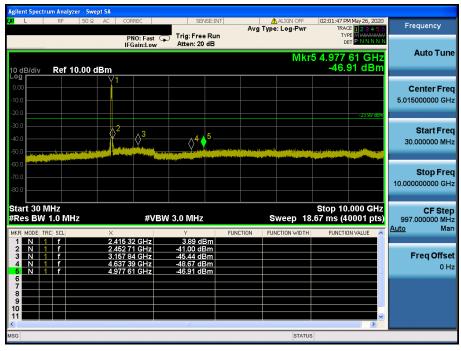
TM 4

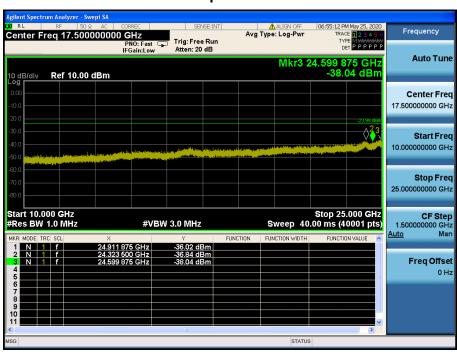


Low Band-edge









TM 4

Reference

& Middle

