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ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT

OF

Product Name: Bluetooth V4.0 Dual-Mode Dongle

Brand Name: Targus

Model No.: ACB75A

Model Difference: N/A

FCC ID: OXM000080

Report No.: ER/2017/60149-02

Issue Date: Sep. 02, 2019

FCC Rule Part: §15.247, Cat: DSS

Targus International LLC Applicant:

1211 North Miller Street, Anaheim, CA

92806 USA

Prepared by: SGS Taiwan Ltd.

Electronics & Communication Laboratory

No.134, Wu Kung Road, New Taipei

Industrial Park, Wuku District, New Taipei

City, Taiwan 24803

Date of test: Jul. 04, 2017 ~ Jul. 06, 2017

Date of EUT Received: Jun. 29, 2017





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REVISION HISTORY

Report Number	Revision	Description	Effected Page	Issue Date	Revised By
ER/2017/60149	Rev.00	Initial creation of document	All	Jul. 18, 2017	Allen Tsai
ER/2017/60149-02	Rev.01	Add section 5.9 remark and conduction data updated	8,13~14	Sep. 02, 2019	Allen Tsai

Cooper Hou Test By: Date Sep. 02, 2019 Cooper Hsu / Engineer Sep. 02, 2019 Prepared By: Date Allen Tsai / Engineer Approved By: Sep. 02, 2019 Date Jim Chang / Asst. Manager

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UMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.207(a)	AC Power Line Conducted Emission	Compliant
§15.247(b)(1)	Peak Output Power	Compliant
§15.247(a)(1)	20dB & 99% Bandwidth	Compliant
§15.247(d)	Conducted Band Edge and Spurious Emission	Compliant
§15.247(d)	Radiated Band Edge and Spurious Emission	Compliant
§15.247(a)(1)	Frequency Separation	Compliant
§15.247(a)(1)(iii)	Number of hopping frequency	Compliant
§15.247(a)(1)(iii)	Time of Occupancy	Compliant
§15.203 §15.247(b)	Antenna Requirement	Compliant

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MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.586 dB
Peak Output Power	+/- 0.84 dB
20dB Bandwidth	+/- 51.33 Hz
100 KHz Bandwidth Of Frequency Band Edges	+/- 0.84 dB
Frequency Separation	+/- 51.33 Hz
Number of hopping frequency	+/- 51.33 Hz
Time of Occupancy	+/- 51.33 Hz
Temperature	+/- 0.65 °C
Humidity	+/- 4.6 %
DC / AC Power Source	DC= +/- 0.13%, AC= +/- 0.2%

Radiated Sourious Emission:

Radiated Spurious Emission.				
	9kHz – 30MHz: +/- 2.87 dB			
	30MHz - 180MHz: +/- 3.37dB			
Measurement uncertainty	180MHz -417MHz: +/- 3.19dB			
(Polarization : Vertical)	0.417GHz-1GHz: +/- 3.19dB			
	1GHz - 18GHz: +/- 4.04dB			
	18GHz - 40GHz: +/- 4.04dB			

	9kHz – 30MHz: +/- 2.87 dB		
	30MHz - 167MHz: +/- 4.22dB		
Measurement uncertainty	167MHz -500MHz: +/- 3.44dB		
(Polarization : Horizontal)	0.5GHz-1GHz: +/- 3.39dB		
	1GHz - 18GHz: +/- 4.08dB		
	18GHz - 40GHz: +/- 4.08dB		

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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GENERAL INFORMATION

5.1 Product description

General:

Onlorai.		
Product Name:	Bluetooth V4.0 Dual-Mode Dongle	
Brand Name:	Targus	
Model No.:	ACB75A	
Model Difference:	N/A	
Power Supply:	5Vdc from USB Port	

Bluetooth BR+EDR:

Bluetooth Version:	BT4.0 dual mode
Channel number: 79 channels	
Modulation type: GFSK + π/4DQPSK + 8DPSK	
Frequency Range:	2.402GHz – 2.480GHz
Dwell Time:	<= 0.4s
Antenna Designation: PCB Antenna, Peak Gain:-4.10dBi	

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5.2 Operated in 2400 ~ 2483.5MHz Band

79 channels are provided for Bluetooth

CH	FREQUENCY	CH	FREQUENCY	СН	FREQUENCY	СН	FREQUENCY
0	2402 MHz	20	2422 MHz	40	2442 MHz	70	2462 MHz
1	2403 MHz	21	2423 MHz	41	2443 MHz	71	2463 MHz
2	2404 MHz	22	2424 MHz	42	2444 MHz	72	2464 MHz
3	2405 MHz	23	2425 MHz	43	2445 MHz	73	2465 MHz
4	2406 MHz	24	2426 MHz	44	2446 MHz	74	2466 MHz
5	2407 MHz	25	2427 MHz	45	2447 MHz	75	2467 MHz
6	2408 MHz	26	2428 MHz	46	2448 MHz	76	2468 MHz
7	2409 MHz	27	2429 MHz	47	2449 MHz	77	2469 MHz
8	2410 MHz	28	2430 MHz	48	2450 MHz	78	2470 MHz
9	2411 MHz	29	2431 MHz	49	2451 MHz	79	2471 MHz
10	2412 MHz	30	2432 MHz	50	2452 MHz	70	2472 MHz
11	2413 MHz	31	2433 MHz	51	2453 MHz	71	2473 MHz
12	2414 MHz	32	2434 MHz	52	2454 MHz	72	2474 MHz
13	2415 MHz	33	2435 MHz	53	2455 MHz	73	2475 MHz
14	2416 MHz	34	2436 MHz	54	2456 MHz	74	2476 MHz
15	2417 MHz	35	2437 MHz	55	2457 MHz	75	2477 MHz
16	2418 MHz	36	2438 MHz	56	2458 MHz	76	2478 MHz
17	2419 MHz	37	2439 MHz	57	2459 MHz	77	2479 MHz
18	2420 MHz	38	2440 MHz	58	2460 MHz	78	2480 MHz
19	2421 MHz	39	2441 MHz	59	2461 MHz		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The Lowest Channel (CH 0)	2402 MHz
The Middle Channel (CH 39)	2441 MHz
The Highest Channel (CH 78)	2480 MHz

5.3 Test Environment

Operating Environment:		
Temperature: 25°C		
Humidity:	55% RH	

5.4 **Description of Support Units**

The EUT has been tested independently.

5.5 **Test Facility**

SGS Taiwan Ltd. Electronics & Communication Laboratory No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803 (TAF code 0513) FCC Designation Number: TW0001

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5.6 **Deviation from standards**

None

5.7 **Abnormalities from Standard Conditions**

None

5.8 Other Information Requested by the Customer

None

5.9 Remarks

The original test report ER/2017/60149 will be withdrawn with this test report ER/2017/60149-02 and is no longer valid when the withdrawal occurred.

5.10 Equipment List

Conduction Emission Test Site						
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.	
EMI Test Receiver	R&S	ESCI 7	100950	12/12/2016	12/11/2017	
Coaxial Cables	N/A	N30N30-1042-150cm	N/A	02/07/2016	02/06/2017	
LISN	Schwarzbeck	NSLK 8127	8127-648	03/11/2016	03/10/2017	
Test Software	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.	

Conducted Emission Test Site										
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.					
TYPE		NUMBER	NUMBER	CAL.						
Power Meter	Anritsu	ML2495A	1005007	12/15/2016	12/14/2017					
Power Sensor	Anritsu	MA2411B	917032	12/15/2016	12/14/2017					
EXA Spectrum Ana-	Agilent	N9030A	MY53120760	03/21/2017	03/20/2018					
lyzer	7 ignorit	14300071	101100120700	00/21/2017	00/20/2010					
DC Block	Mini-Circuits	BLK-18-S+	1	01/05/2017	01/04/2018					
Coaxial Cable	HU-	SUCOFLEX 102	23670/2	01/05/2017	01/04/2018					
Odaziai Gabic	BER+SUHNER	OOOOI LLX 102	2501012	01/03/2017	01/04/2010					
Attenuator	Mini-Circuit	BW-S10W2+	2	01/05/2017	01/04/2018					
Splitter	Agilent	11636B	N/A	01/05/2017	01/04/2018					
DC Power Supply	Agilent	E3640A	MY52410006	11/21/2016	11/20/2017					

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Radiated Chamber EQUIPMENT MFR MODEL **SERIAL** LAST CAL DUE. **NUMBER TYPE NUMBER** CAL. 05/11/2017 **EMI Test Receiver** R&S 100760 05/10/2018 ESCI7 04/25/2017 Spectrum Analyzer Agilent E4446A MY51100003 04/24/2018 Loop Antenna ETS-Lindgren 6502 148045 09/20/2016 09/19/2017 Bilog Antenna **SCHWAZBECK VULB9168** 378 12/19/2016 12/18/2017 Horn Antenna Schwarzbeck **BBHA9120D** 1441 08/01/2016 07/31/2017 2944A07676 **Pre-Amplifier** Agilent 8447D 01/05/2017 01/04/2018 EMC Instruments Pre-Amplifier EMC0126530 980038 01/05/2017 01/04/2018 Corp. DT420 N/A Turn Table HD N.C.R N.C.R AM-BS-4500-B 060776-ABS N.C.R N.C.R **Antenna Tower** ChamPro ChamPro EM1000 60776 N.C.R N.C.R Controller 966 RX **Huber Suhner** 01/05/2017 01/04/2018 Low Loss Cable 9 3m Site NSA SGS 966 chamber N/A 07/01/2017 06/30/2018 Low Loss Cable **Huber Suhner** 966 TX 01/05/2017 01/04/2018 1 Horn Antenna Schwarzbeck **BBHA9170** 184 12/12/2016 12/11/2017 **EMC Instruments Pre-Amplifier** EMC184045 980135 01/05/2017 01/04/2018 Corp.

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TEST RESULT AND MEASUREMENT DATA

6.1 **Antenna Requirement**

Applicable Standard: 47 CFR Part 15C Section 15.203 /247(c)

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall 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, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is -4.10dBi.

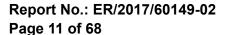
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6.2 Conducted emission test

6.2 Conducted emission	test									
Test Requirement:	47 CFF	R Part 15C Section 15.207								
Test Method		63.10: 2013								
Test Frequency Range:	150kHz	z to 30MHz								
		Frequency range (MHz)	Limits de	T '						
		, , ,	Quasi-peak	Average						
		0.15 to 0.50	66 to 56	56 to 46						
Limit		0.50 to 5	56	46	1					
		5 to 30	60	50]					
	Note	ver limit aball apply at the transit	ion fraguancias							
		ver limit shall apply at the transit nit decreases linearly with the loo		ncy in the range	0 15 MHz					
	to 0.50		janann or the hequel	noy in the range	0. 10 IVII IZ					
	1. The	EUT was placed on a tabl	e which is 0.8m	above ground	l plan.					
	2. Maximum procedure was performed on the six highest emissi									
Test Procedure:		nsure EUT compliance.								
		eat above procedures until	all phases of pov	wer being sup	plied by					
	give	n UE are completed								
	1. The conducted emission tests were performed in the test site, us-									
	ing the setup in accordance with the ANSI C63.10:2013.									
	,									
	2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.									
	·									
	3. The LISN was connected with 120Vac/60Hz power source									
				//						
Test Setup:		/,0	_//	11						
		В 10ст	A //							
			-							
				LA:UE B: Wall Plug						
		LISN		Ü						
		40cm	80cm							
		// / j								
			□ +							
	Non ba	nning transmitting made :	uith all kind of he	adulation and	ماا ادنمط					
Exploratory Test Mode:		pping transmitting mode v type at the lowest, middle		วนนเสนอก สกัน	ali Kiliu					
Exploratory lest wode.		itting mode.	, mgn chaillel.							
	Litalisli	iittiig iiioue.								

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Final Test Mode:	Through Pre-scan, find the DH5 of data type and GFSK modulation at the Lowest channel is the worst case. Transmitting mode Only the worst case is recorded in the report.
Instrument Used:	Refer to section 5.9 for details
Test Results:	Pass

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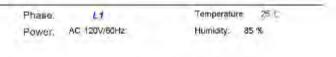
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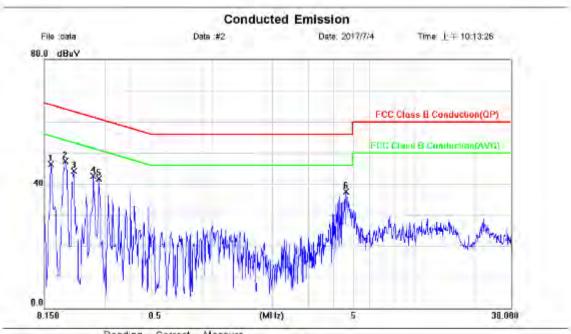


Operation Mode: operation mode Test Date: Marcus Tseng

Site Conduction Room Limit, FCC Class B Conduction(QP)

Mode. Operation mode





No. Mk	Freq.	Level	Factor	ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1620	46.15	0.07	46.22	65.36	-19.14	peak	
2 *	0.1900	47.23	0.07	47,30	64.04	-16.74	peak	
3	0.2100	43.96	0.07	44 03	63.21	-19 18	peak	
4	0.2620	42.38	0.07	42 45	61.37	-18.92	peak	
5	0.2780	41.70	0.07	41.77	88.03	-19.11	peak	
6	4.6180	37.17	0.24	37.41	56.00	-18.59	peak	

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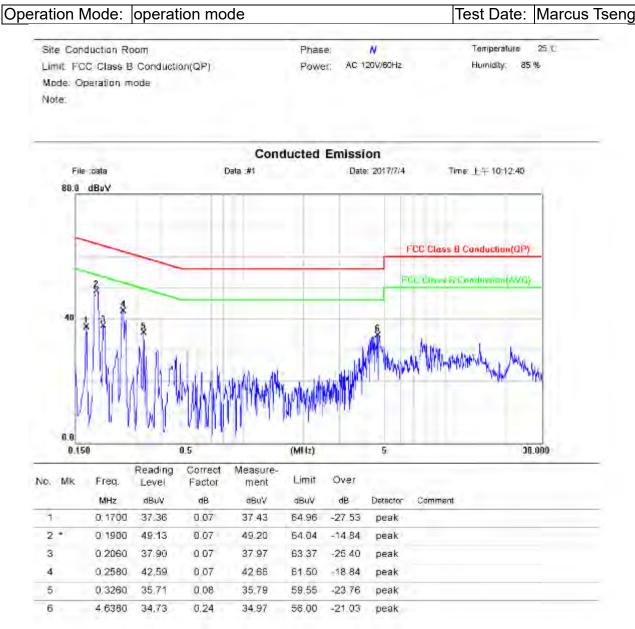
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Note: The * reveals the worst-case results that closet to the limit.

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6.3 Peak output power measurement

Test Re- quirement:	47 CFR Part 15C Section 15.247 (b)(1)						
Test Method	FCC Public Notice DA 00-705 Measurement Guidelines						
Test Setup:	Remark: Offset the cable loss 0.5dB in the Power Meter.						
Limit	125mW						
Test Procedure:	 Place the EUT on the table and set it in transmitting mode. The testing follows FCC Public Notice DA 00-705 Measurement Guidelines. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter or spectrum. (Max Hold, Detector = Peak, RBW >=20dB bandwidth) Record the max. reading. Repeat above procedures until all default test channel is completed. 						
Exploratory Test Mode:	Non-hopping transmitting with all kinds of modulation and all kinds of data type						
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of π/4DQPSK modulation type 3-DH5 of data type is the worst case of 8DPSK modulation type						
Instruments used:	Refer to section 5.9 for details						
Test Results:	Pass						

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Measurement Data

1M BR mode (Peak):	1M BR mode (Average):

СН	Freq. (MHz)	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)	СН	Freq. (MHz)	Max. Output include tune up tolerance Power (dBm)	Output Power (mW)	Limit (mW)
0	2402	6.40	4.365	125	0	2402	4.99	3.155	125
39	2441	6.90	4.898	125	39	2441	5.21	3.319	125
78	2480	6.49	4.457	125	78	2480	5.11	3.243	125

2M EDR mode (Peak): 2M EDR mode (Average):

	m moac (i	· · · · · · · ·				on mode (r			
СН	Freq. (MHz)	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)	СН	Freq. (MHz)	Max. Avg.Output include tune up tolerance Power (dBm)	Output Power (mW)	Limit (mW)
0	2402	8.96	7.870	125	0	2402	5.14	3.266	125
39	2441	9.22	8.356	125	39	2441	5.49	3.540	125
78	2480	8.97	7.889	125	78	2480	5.21	3.319	125

3M EDR mode (Peak): 3M EDR mode (Average):

om EDIT mode (Foury)						ort mode (r	J /		
СН	Freq. (MHz)	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)	СН	Freq. (MHz)	Max. Avg.Output include tune up tolerance Power (dBm)	Output Power (mW)	Limit (mW)
0	2402	9.39	8.690	125	0	2402	5.10	3.236	125
39	2441	9.61	9.141	125	39	2441	5.37	3.443	125
78	2480	9.35	8.610	125	78	2480	5.28	3.373	125

NOTE: cable loss as

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20dB BANDWIDTH MEASUREMENT

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)						
Test Method	FCC Public Notice DA 00-705 Measurement Guidelines.						
Test Setup:	EUT Attenuator Spectrum						
Limit	N/A						
Test Procedure:	 Place the EUT on the table and set it in transmitting mode. The testing follows FCC Public Notice DA 00-705 Measurement Guidelines. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer. Set the spectrum analyzer as RBW=10 kHz (1 % of 20 dB Bandwidth.), VBW = 30 kHz, Span= 3MHz, Sweep=auto, Detector = Peak, and Max hold for 20dB Bandwidth test. Mark the peak frequency and -20dB (upper and lower) frequency Repeat above procedures until all test default channel is completed. 						
Exploratory Test Mode:	Non-hopping transmitting with all kinds of modulation and all kinds of data type.						
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of π/4DQPSK modulation type 3-DH5 of data type is the worst case of 8DPSK modulation type						
Instruments used:	Refer to section 5.9 for details						
Test Results:	Pass						

Measurement data

GFSK

	π/4-DQPSK
2/2	20 41

8-DPS1	1

	20 dB	2/3		20 dB	2/3		20 dB	2/3
СН	BW	BW	CH	BW	BW	CH	BW	BW
	(MHz)	(MHz)		(MHz)	(MHz)		(MHz)	(MHz)
Low	0.9225	0.61	Low	1.318	0.88	Low	1.267	0.84
Mid	0.9224	0.61	Mid	1.318	0.88	Mid	1.268	0.85
High	0.9227	0.62	High	1.319	0.88	High	1.271	0.85

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20dB Band Width Test Data CH-Low (GFSK mode)



20dB Band Width Test Data CH-Mid (GFSK mode)



20dB Band Width Test Data CH-High (GFSK mode)



20dB Band Width Test Data CH-Low (π/4-DQPSK mode)



20dB Band Width Test Data CH-Mid (π/4-DQPSK mode)



20dB Band Width Test Data CH-High (π/4-DQPSK mode)



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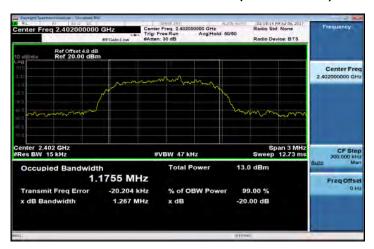
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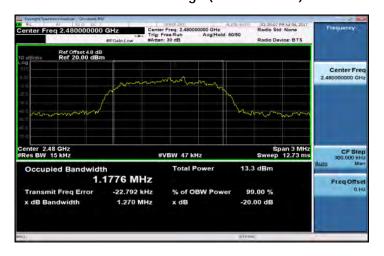
20dB Band Width Test Data CH-Low (8-DPSK mode)



20dB Band Width Test Data CH-Mid (8-DPSK mode)



20dB Width Test Data CH-High (8-DPSK mode)



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6.5 FREQUENCY SEPARATION

D.5 FREQUENCT SE					
Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)				
Test Method:	ANSI C63.10:2013 Section 7.8.2				
rest Method.	The testing follows FCC Public Notice DA 00-705 Measurement				
Test Setup:	EUT Attenuator Spectrum				
Test Procedure:	 Place the EUT on the table and set it in transmitting mode. The testing follows FCC Public Notice DA 00-705 Measurement Guidelines. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer. Set center frequency of spectrum analyzer = middle of hopping channel. Set the spectrum analyzer as RBW, VBW=100 kHz, Adjust Span to 5MHz, Sweep = auto. Max hold. Mark 3 Peaks of hopping channel and record the 3 peaks frequency. 				
Limit:	2/3 of the 20dB bandwidth				
Littlit.	Remark: the transmission power is less than 0.125W.				
Test Mode:	Hopping transmitting with all kind of modulation and all kind of data type.				
Final Test Mode:	Through Pre-scan, find the DH5 GFSK of data type is the worst case.				
Instruments Used:	Refer to section 5.9 for details.				
Test Results:	Pass				

Measurement data

Channel separation (MHz)	Limit	Result
1	>=25 kHz or 2/3 times 20dB bandwidth	PASS

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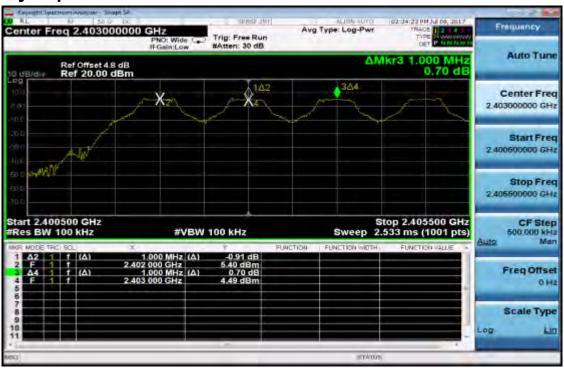
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Frequency Separation Test Data



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6.6 NUMBER OF HOPPING FREQUENCY

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)				
Toot Mathadi	ANSI C63.10:2013 Section 7.8.3				
Test Method:	FCC Public Notice DA 00-705 Measurement Guidelines				
Test Setup:	EUT Attenuator Spectrum				
Test Procedure:	 Place the EUT on the table and set it in transmitting mode. The testing follows. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer. Set spectrum analyzer Start=2400MHz, Stop = 2483.5MHz, Sweep = auto. Set the spectrum analyzer as RBW=430 kHz, VBW=1.5MHz., Detector = Peak Max hold, view and count how many channel in the band. 				
Limit:	At least 15 channels				
Test Mode:	Hopping transmitting with DH5 GFSK of modulation				
Instruments Used:	Refer to section 5.9 for details.				
Test Results:	Pass				

Measurement Data

Tabular Data of Total Channel Number

	Channel Number	Limit
2.4 GHz – 2.441GHz	40	
2.441 GHz – 2.4835GHz	39	>15
2.4GHz ~2.4835GHz	(40+39) = 79	

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Channel Number

1.4 GHz - 2.441GHz



2.441 GHz - 2.4835GHz



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6.7 TIME OF OCCUPANCY (DWELL TIME)

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)					
Test Method:	ANSI C63.10:2013 Section 7.8.4 FCC Public Notice DA 00-705 Measurement Guidelines					
Test Setup:	EUTAttenuator Spectrum					
Test Procedure:	 Place the EUT on the table and set it in transmitting mode. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer. Set center frequency of spectrum analyzer = operating frequency. Set the spectrum analyzer as RBW, VBW=1MHz, 3MHz, Span = 0Hz, Detector = Peak, Adjust Sweep = 2~8ms. Repeat above procedures until all frequency of the interest measured were complete. Formula Deduced: time occupancy of one time slot X Hopping rate / total slot in one channel / total channel that hops X period of working channels. Where, standard hopping rate is 1600 hops/s, slot in one channel for DH1, DH3, and DH5 is 2, 4, and 6, respectively. 					
Limit:	0.4 Second					
Test Mode:	Hopping transmitting with DH5 GFSK of modulation					
Instruments Used:	Refer to section 5.9 for details.					
Test Results:	Pass					

Formula Deduced: time occupancy of one time slot X Hopping rate / total slot in one channel / total channel that hops X period of working channels.

Where, standard hopping rate is 1600 hops/s, slot in one channel for DH1, DH3, and DH5 is 2, 4, and 6, respectively.

DH1 consists of single time slot of the uplink, and one slot of the downlink Total Slot: 2 DH3 consists of three time slot of the uplink, and one slot of the downlink. Total Slot: 4 DH5 consists of five time slot of the uplink, and one slot of the downlink. Total Slot: 6

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In AFH mode, hopping rate is 800 hop/s with 6 slots in 20 hopping channels with channel hopping rate (800 / 6 / 20) in Occupancy Time Limit (0.4 * 20) (S), Hop Over Occupancy Time comes to (800 / 6 / 20)*(0.4 *20) =53.33

Note: the result of the complete test default channel at 1Mbps is recorded on the test report, 2Mbps, and 3Mbps only records the measurement result at middle channel that reveals no much deviation.

Measurement data

GFSK (1Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)
	DH1	118.40	400ms
0	DH3	256.32	400ms
	DH5	302.61	400ms
	DH1	116.80	400ms
39	DH3	256.32	400ms
	DH5	302.72	400ms
	DH1	116.80	400ms
78	DH3	256.32	400ms
	DH5	302.61	400ms

π/4 DQPSK (2Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)
	DH1	118.40	400ms
39	DH3	257.60	400ms
	DH5	302.61	400ms

8-DPSK (3Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)
	DH1	118.40	400ms
39	DH3	257.60	400ms
	DH5	302.61	400ms

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A period time = 0.4 (s) * 79 = 31.6 (s)

GFSK (1Mbps):

_						
CH Low	DH1 time slot =	0.370 *	(1600/2/79) *	31.6 =	118.40	(ms)
	DH3 time slot =	1.602 *	(1600/4/79) *	31.6 =	256.32	(ms)
	DH5 time slot =	2.837 *	(1600/6/79) *	31.6 =	302.61	(ms)
CH Mid	DH1 time slot =	0.365 *	(1600/2/79) *	31.6 =	116.80	(ms)
	DH3 time slot =	1.602 *	(1600/4/79) *	31.6 =	256.32	(ms)
	DH5 time slot =	2.838 *	(1600/6/79) *	31.6 =	302.72	(ms)
CH High	DH1 time slot =	0.365 *	(1600/2/79) *	31.6 =	116.80	(ms)
	DH3 time slot =	1.602 *	(1600/4/79) *	31.6 =	256.32	, ,
	DH5 time slot =	2.837 *	(1600/6/79) *	31.6 =	302.61	(ms)
π/4 -DQPS	K (2Mbps):					
CH Mid	2DH1 time slot=	0.370 *	(1600/2/79) *	31.6 =	118.40	
	2DH3 time slot=	1.610 *	(1600/4/79) *	31.6 =	257.60	. ,
	2DH5 time slo¹=	2.837 *	(1600/6/79) *	31.6 =	302.61	(ms)
8-DPSK (31	Mbps):					
CH Mid	3DH1 time slot=	0.370 *	(1600/2/79) *	31.6 =	118.40	(ms)
	3DH3 time slot=	1.610 *	(1600/4/79) *	31.6 =	257.60	(ms)
	3DH5 time slot=	2.837 *	(1600/6/79) *	31.6 =	302.61	(ms)

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GFSK (1Mbps) for AFH Mode						
Hopping Channel Number	Limit (ms)					
20	DH5	151.31	400ms			
π/4 DQPSK (2Mbps) for Mode						
Hopping Channel Number	PACKET TYPE	Measurement Result (ms)	Limit (ms)			
20	DH5	151.31	400ms			
8-DPSK (3Mbps) for AFH Mode						
Hopping Channel PACKET TYPE Number		Measurement Result (ms)	Limit (ms)			
20	DH5	151.31	400ms			

GFSK (1Mbps):

DH5 time sl =	2.837	(ms) *	(800/6/20	* 8 =	151.31	(ms)
---------------	-------	--------	-----------	-------	--------	------

π/4 -DQPSK (2Mbps

8-DPSK (3Mbps):

3DH5 time := 2.837 (800/6/20)*8 = 151.31(ms) *

6.8 Measurement Result

Note: Refer to next page for plots.

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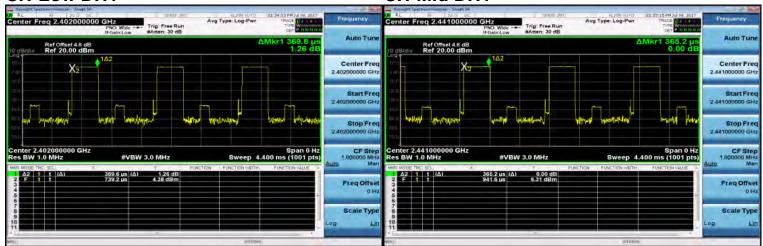


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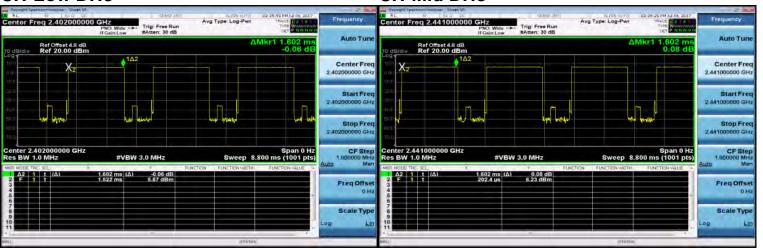
CH-Low DH1

CH-Mid DH1



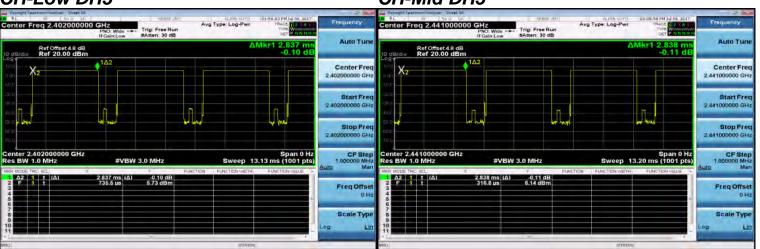
CH-Low DH3

CH-Mid DH3



CH-Low DH5

CH-Mid DH5



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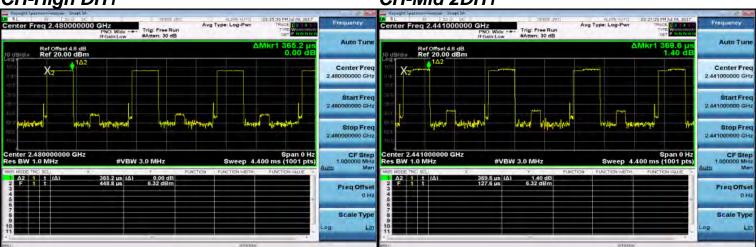
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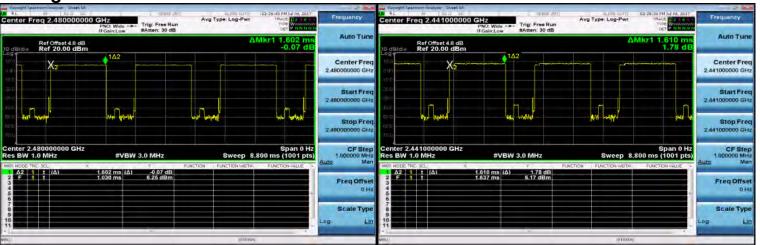


CH-High DH1 CH-Mid 2DH1



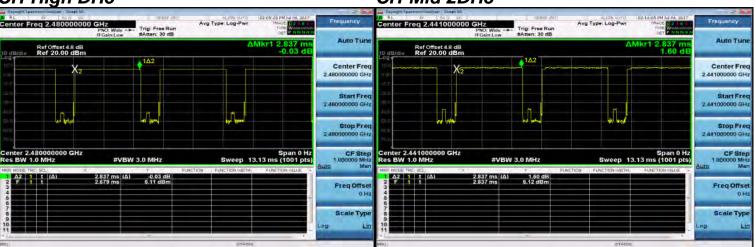
CH-High DH3





CH-High DH5

CH-Mid 2DH5



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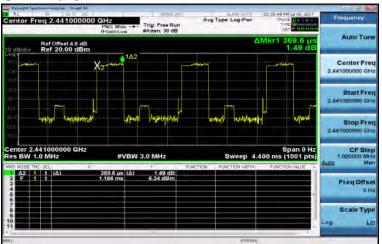
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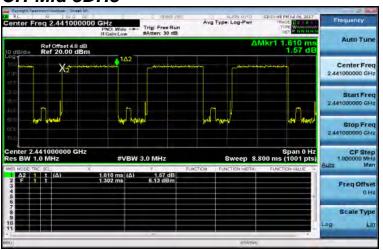
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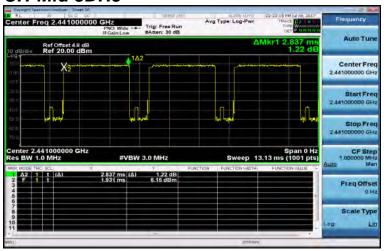
CH-Mid 3DH1



CH-Mid 3DH3



CH-Mid 3DH5



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6.9 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10:2013 Section 7.8.6 & 7.8.8
	FCC Public Notice DA 00-705 Measurement Guidelines
Test Setup:	EUT Attenuator Spectrum Cable loss as 4.8dB that offsets in the spectrum
Conducted Band Edge test Proce- dure:	 Place the EUT on the table and set it in transmitting mode. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer. Set center frequency of spectrum analyzer = operating frequency. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Sweep = auto Mark Peak, 2.3999GHz and 2.4836GHz and record the max. level. Repeat above procedures until all frequency measured were complete.
Conducted Spurious Emission test Procedure:	 To connect Antenna Port of EUT to Spectrum. Set RBW = 100 kHz & VBW = 300 kHz, Detector =Peak, Sweep = Auto Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW. Repeat above procedures until all default test channel measured were complete.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.
Test Mode:	Hopping and Non-hopping transmitting with all kind of modulation and all kind of data type
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case.
Instruments Used:	Refer to section 5.9 for details.
Test Results:	Pass

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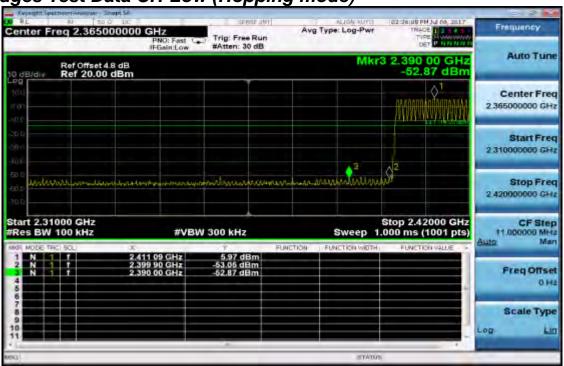


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Measurement data

Band Edges Test Data CH-Low (Hopping mode)



Band Edges Test Data CH-High



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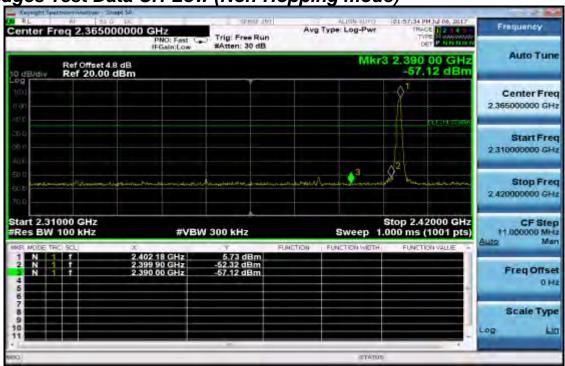
t (886-2) 2299-3279



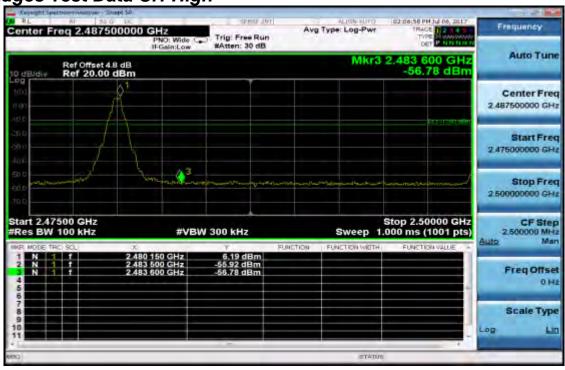
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Band Edges Test Data CH-Low (Non-Hopping mode)



Band Edges Test Data CH-High



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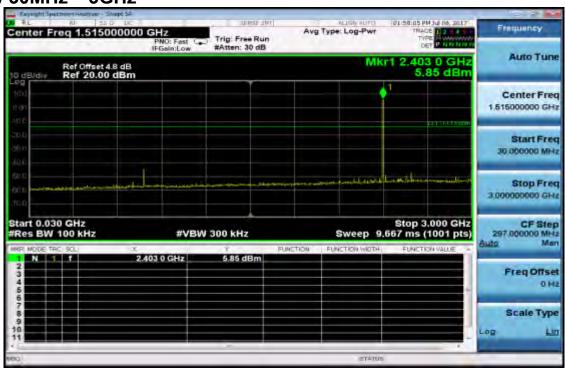
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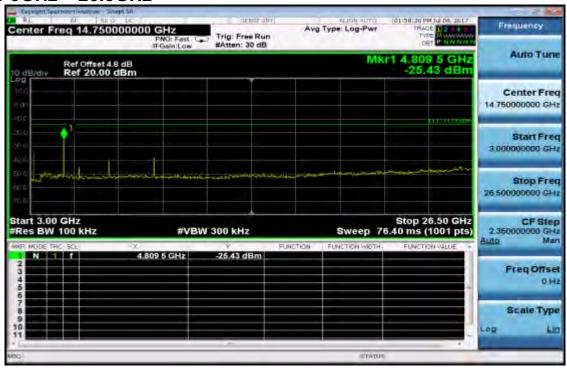
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Conducted Spurious Emission Measurement Result Ch Low 30MHz - 3GHz



Ch Low 3GHz - 26.5GHz



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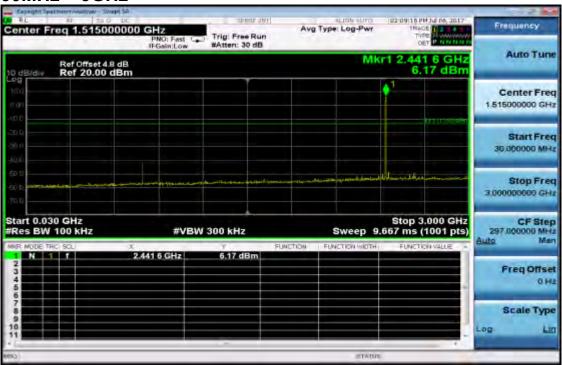
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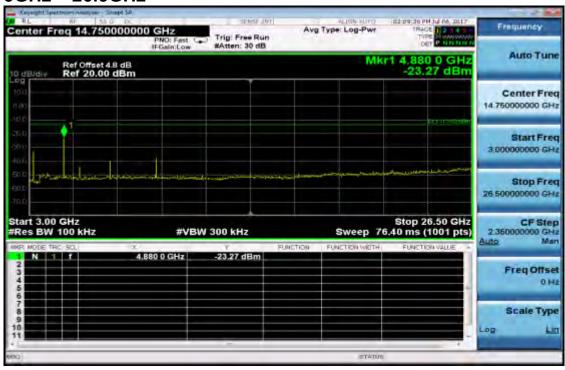
t (886-2) 2299-3279



Ch Mid 30MHz - 3GHz



Ch Mid 3GHz - 26.5GHz



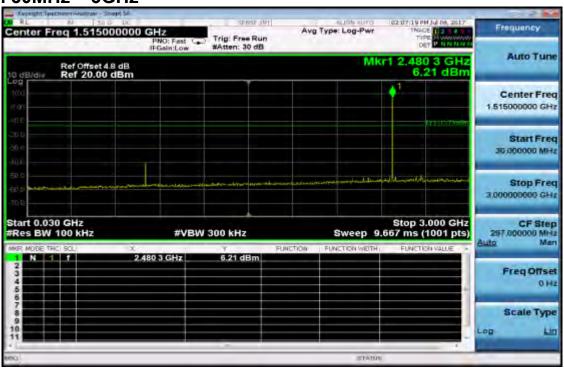
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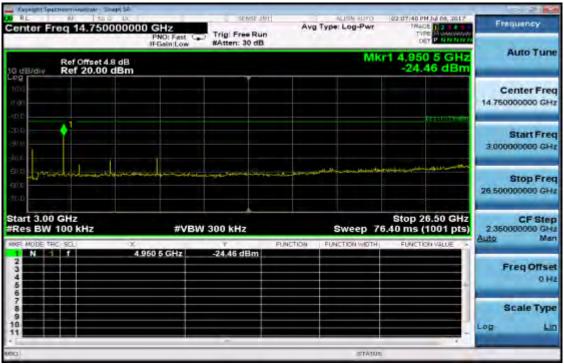
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Ch High 30MHz - 3GHz



Ch High 3GHz - 26.5GHz



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6.10 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

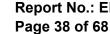
Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205							
Toot Mothod:	ANSI C63.10: 2013							
Test Method:	FCC Public Notice D	A 00-705 Measuremen	t Guidelines					
	Frequency (MHz) 0.009-0.490 0.490-1.705 1.705-30 30-88	Field strength (microvolts/meter) 2400/F(kHz) 24000/F(kHz) 30 100	Distance (meters) 300 30 30					
Limit:	88-216	150	3					
	216-960	200	3					
	Above 960	500	3					
	emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.							
	1. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 0.8m for frequency> 1GHz above ground plan.							
	The turn table shall rotate 360 degrees to determine the position of maximum emission level.							
	3. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.							
Test Procedure:	 4. Use the follow spectrum analyzer setting: Span = wide enough to fully capture the emission being measured RBW = 1 MHz for f ≥ 1 GHz, 100 kHz for f < 1 GHz, VBW ≥ RBW, Sweep = auto, Detector function = peak, Trace = max hold 							
	method per 15 (4) Duty Cycle = 6							

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Report No.: ER/2017/60149-02

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Where N1 is number of type 1 pulses, L1 is length of type 1 pulses, etc. Average Emission Level = Peak Emission Level + 20*log (duty Cycle)
5. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.
6. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
7. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
Repeat above procedures until all frequency of the interest measured were complete.
The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for Bluetooth LE Transmitter for channel Low, Mid and High, the worst case E2 position was reported.

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Field Strength Calculation The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows: FS = RA + AF + CL - AGWhere FS = Field Strength CL = Cable Attenuation Factor (Cable Loss) **Test Site Factor:** RA = Reading Amplitude AG = Amplifier Gain AF = Antenna Factor Actual FS(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB) Factor(dB) = Antenna Factor(dBµV/m) + Cable Loss(dB) -Pre Amplifier Gain(dB) Note: "F": denotes Fundamental Frequency.; "H": denotes Harmonic Frequency. "E": denotes Band Edge Frequency.; "S": denotes Spurious Frequency. Refer to section 5.9 for details. Instruments Used: Test Results: Pass

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Test Set-up: (A) Radiated Emission Test Set-UP Frequency Below 30MHz. Turntable 3m FUT Test Receiver 0.8 m Coaxial Cable Ground Plane (B) Radiated Emission Test Set-Up, Frequency form 30MHz to 1000MHz Turntable 1m to 4m **EUT** Spectrum 0.8m Analyzer Ground Plane Coaxial Cable (C) Radiated Emission Test Set-UP Frequency Over 1 GHz Turntable Зт 1m to 4m **EUT** Spectrum 1.5m Analyzer Ground Plane Absorber Coaxial Cable

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6.10.1 Test Results of Radiated Spurious Emissions form 9 KHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) was not reported.

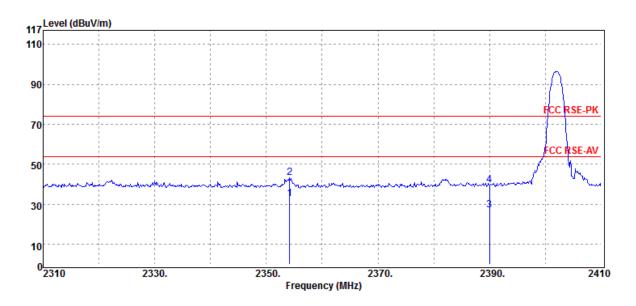
6.10.2 Measurement Result

Operation Band :BR(1M) **Test Date** :2017-07-05

Fundamental Frequency :2402 MHz Temp./Humi. :22 deg C / 61 RH

Operation Mode :Bandedge CH LOW Engineer

EUT Pol. :E2 Plane Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2354.20	S	Average	34.42	-1.57	32.85	54.00	-21.15
2354.20	S	Peak	44.87	-1.57	43.30	74.00	-30.70
2390.00	E	Average	28.78	-1.74	27.04	54.00	-26.96
2390.00	E	Peak	41.42	-1.74	39.68	74.00	-34.32

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Operation Mode EUT Pol.

:BR(1M) :2402 MHz

:Bandedge CH LOW

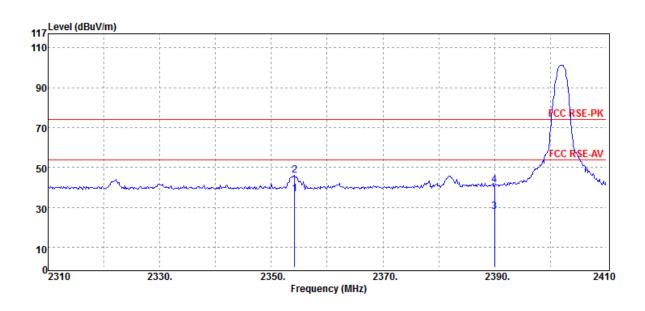
:E2 Plane

:2017-07-05 **Test Date**

Temp./Humi. :22 deg C / 61 RH

Engineer

:HORIZONTAL Measurement Antenna Pol.

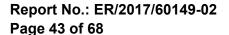


Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2354.20	S	Average	38.40	-1.57	36.83	54.00	-17.17
2354.20	S	Peak	47.55	-1.57	45.98	74.00	-28.02
2390.00	Е	Average	29.68	-1.74	27.94	54.00	-26.06
2390.00	E	Peak	42.87	-1.74	41.13	74.00	-32.87

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Operation Mode EUT Pol.

:BR(1M) :2480 MHz

:Bandedge CH HIGH

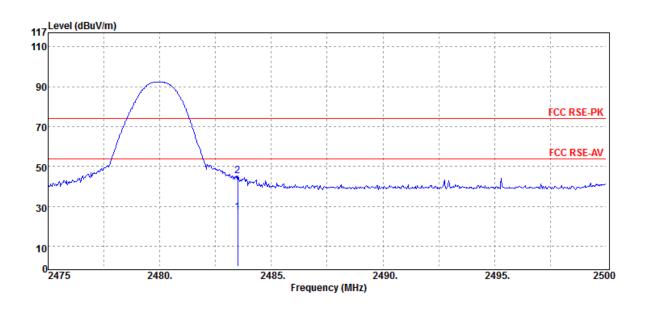
:E2 Plane

:2017-07-05 **Test Date**

Temp./Humi. :22 deg C / 61 RH

Engineer :Tin

:VERTICAL Measurement Antenna Pol.

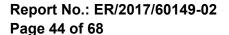


Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2483.50	Е	Average	28.88	-1.62	27.26	54.00	-26.74
2483.50	E	Peak	46.99	-1.62	45.37	74.00	-28.63

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Operation Mode EUT Pol.

:BR(1M) :2480 MHz

:Bandedge CH HIGH

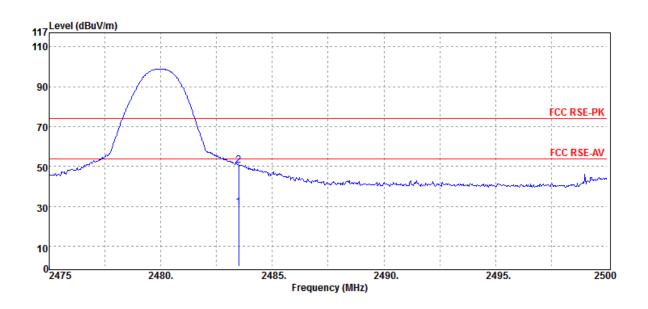
:E2 Plane

:2017-07-05 **Test Date**

Temp./Humi. :22 deg C / 61 RH

Engineer

:HORIZONTAL Measurement Antenna Pol.

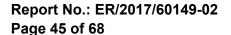


Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2483.50	Е	Average	31.31	-1.62	29.69	54.00	-24.31
2483.50	E	Peak	52.23	-1.62	50.61	74.00	-23.39

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Operation Mode EUT Pol.

:EDR(3M) :2402 MHz

:Bandedge CH LOW

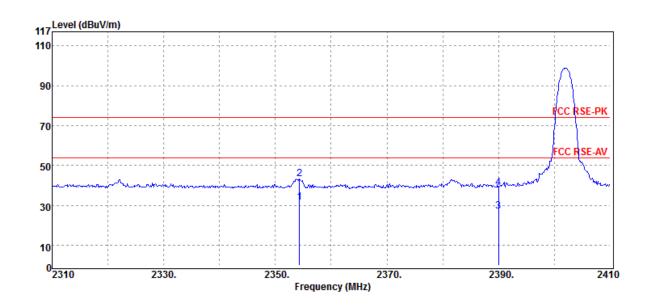
:E2 Plane

:2017-07-05 **Test Date**

Temp./Humi. :22 deg C / 61 RH

Engineer :Tin

:VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2354.30	S	Average	33.28	-1.57	31.71	54.00	-22.29
2354.30	S	Peak	44.81	-1.57	43.24	74.00	-30.76
2390.00	Е	Average	28.73	-1.74	26.99	54.00	-27.01
2390.00	Е	Peak	40.74	-1.74	39.00	74.00	-35.00

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Operation Mode EUT Pol.

:EDR(3M) :2402 MHz

:Bandedge CH LOW

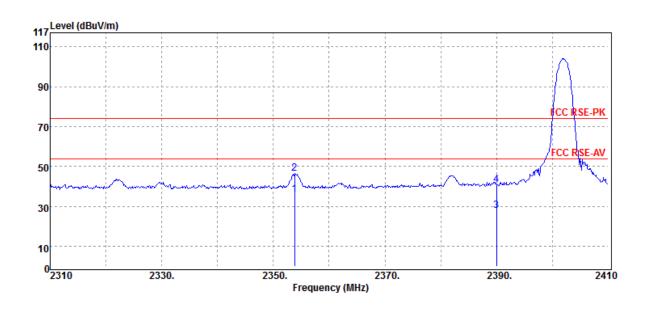
:E2 Plane

Test Date :2017-07-05

Temp./Humi. :22 deg C / 61 RH

Engineer

:HORIZONTAL Measurement Antenna Pol.

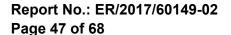


Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2353.80	S	Average	37.64	-1.57	36.07	54.00	-17.93
2353.80	S	Peak	47.95	-1.57	46.38	74.00	-27.62
2390.00	Е	Average	29.72	-1.74	27.98	54.00	-26.02
2390.00	Ε	Peak	42.54	-1.74	40.80	74.00	-33.20

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Operation Mode EUT Pol.

:EDR(3M) :2480 MHz

:Bandedge CH HIGH

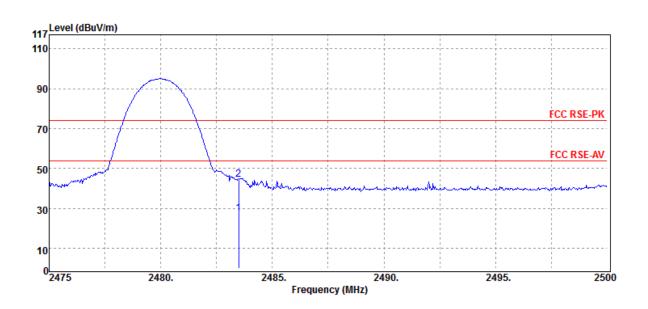
:E2 Plane

:2017-07-05 **Test Date**

Temp./Humi. :22 deg C / 61 RH

Engineer :Tin

:VERTICAL Measurement Antenna Pol.

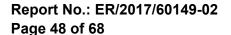


Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Average	29.12	-1.62	27.50	54.00	-26.50
2483.50	E	Peak	46.34	-1.62	44.72	74.00	-29.28

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EUT Pol.

:EDR(3M) :2480 MHz

:Bandedge CH HIGH

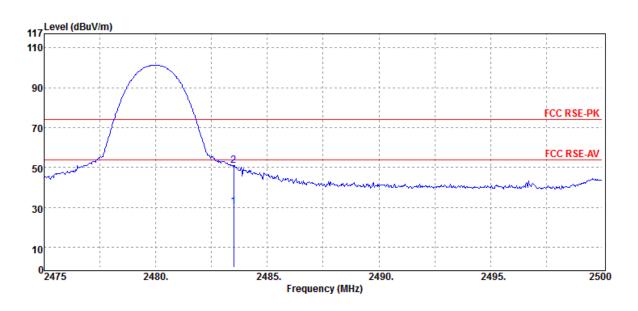
:E2 Plane

:2017-07-05 **Test Date**

Temp./Humi. :22 deg C / 61 RH

Engineer

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2483.50	Е	Average	31.90	-1.62	30.28	54.00	-23.72
2483.50	Ε	Peak	52.68	-1.62	51.06	74.00	-22.94

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EUT Pol.

:BR Hopping :2402 MHz

:Bandedge CH LOW

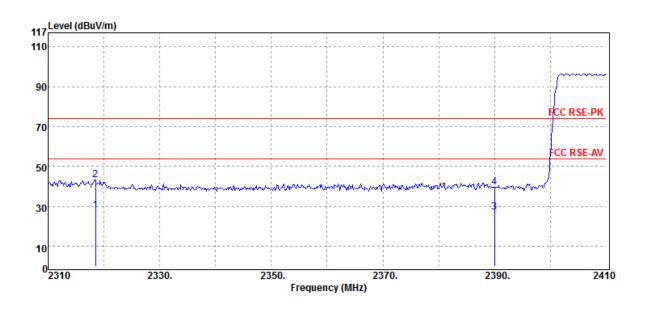
:E2 Plane

:2017-07-05 **Test Date**

Temp./Humi. :22 deg C / 61 RH

Engineer :Tin

:VERTICAL Measurement Antenna Pol.

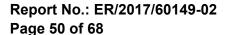


Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2318.50	S	Average	29.21	-1.40	27.81	54.00	-26.19
2318.50	S	Peak	44.64	-1.40	43.24	74.00	-30.76
2390.00	E	Average	28.70	-1.74	26.96	54.00	-27.04
2390.00	E	Peak	41.57	-1.74	39.83	74.00	-34.17

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:BR Hopping :2402 MHz :Bandedge CH LOW

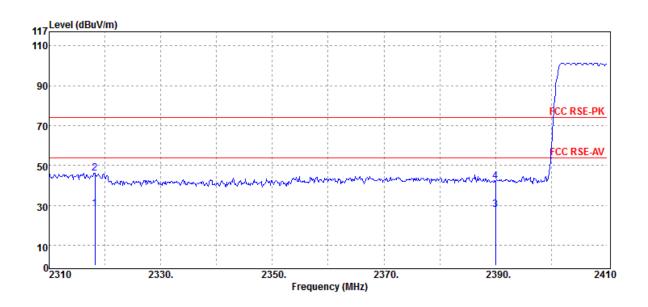
:E2 Plane

:2017-07-05 **Test Date**

Temp./Humi. :22 deg C / 61 RH

Engineer

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2318.20	S	Average	29.88	-1.39	28.49	54.00	-25.51
2318.20	S	Peak	47.72	-1.39	46.33	74.00	-27.67
2390.00	Е	Average	29.83	-1.74	28.09	54.00	-25.91
2390.00	Е	Peak	43.69	-1.74	41.95	74.00	-32.05

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EUT Pol.

:BR Hopping :2480 MHz

:Bandedge CH HIGH

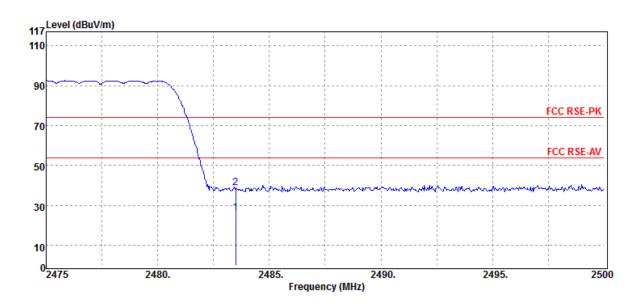
:E2 Plane

:2017-07-05 **Test Date**

Temp./Humi. :22 deg C / 61 RH

Engineer :Tin

:VERTICAL Measurement Antenna Pol.



	Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
	MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
_	2483.50	Е	Average	28.10	-1.62	26.48	54.00	-27.52
	2483.50	E	Peak	40.37	-1.62	38.75	74.00	-35.25

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EUT Pol.

:BR Hopping :2480 MHz

:Bandedge CH HIGH

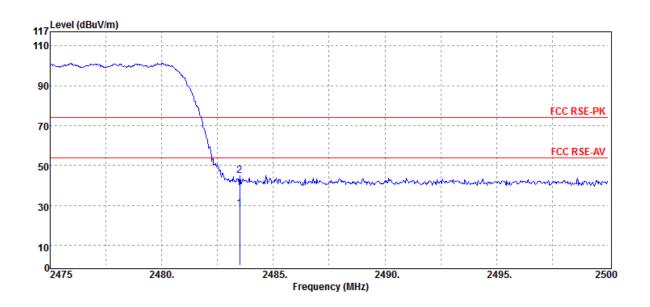
:E2 Plane

:2017-07-05 **Test Date**

Temp./Humi. :22 deg C / 61 RH

Engineer

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2483.50	Е	Average	29.76	-1.62	28.14	54.00	-25.86
2483.50	E	Peak	46.36	-1.62	44.74	74.00	-29.26

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:EDR Hopping :2402 MHz

:Bandedge CH LOW

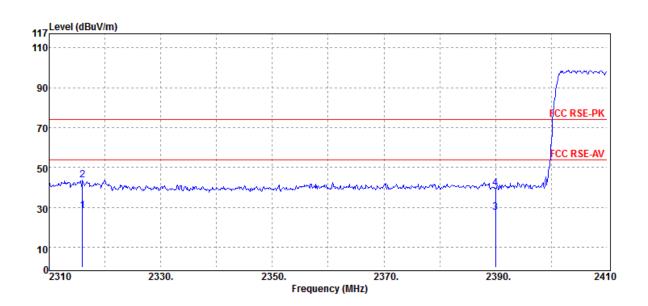
:E2 Plane

:2017-07-05 **Test Date**

Temp./Humi. :22 deg C / 61 RH

Engineer :Tin

:VERTICAL Measurement Antenna Pol.

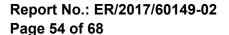


Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin	
		Mode	Reading Level		FS	@3m		
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB	
2316.00	S	Average	29.71	-1.41	28.30	54.00	-25.70	
2316.00	S	Peak	45.02	-1.41	43.61	74.00	-30.39	
2390.00	Е	Average	29.43	-1.74	27.69	54.00	-26.31	
2390.00	Е	Peak	41.37	-1.74	39.63	74.00	-34.37	

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:EDR Hopping :2402 MHz

:Bandedge CH LOW

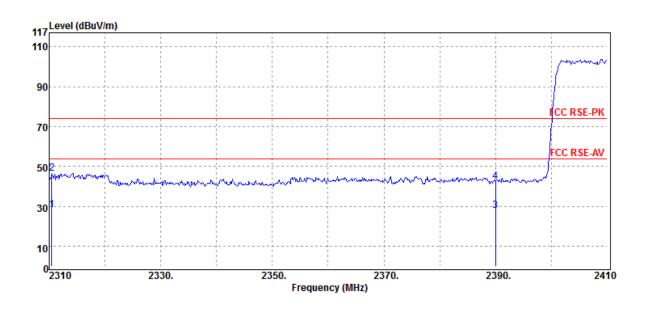
:E2 Plane

:2017-07-05 **Test Date**

Temp./Humi. :22 deg C / 61 RH

Engineer

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2310.50	S	Average	29.81	-1.40	28.41	54.00	-25.59
2310.50	S	Peak	47.95	-1.40	46.55	74.00	-27.45
2390.00	Е	Average	29.80	-1.74	28.06	54.00	-25.94
2390.00	Е	Peak	44.40	-1.74	42.66	74.00	-31.34

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:EDR Hopping :2480 MHz :Bandedge CH HIGH

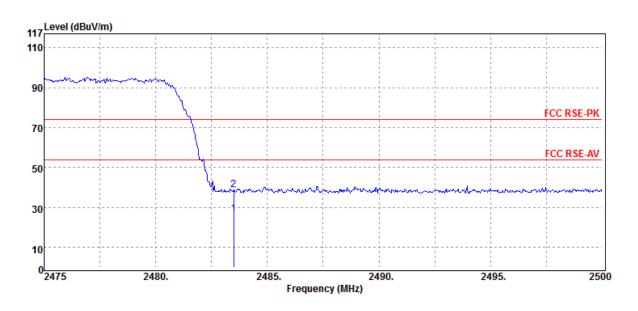
:E2 Plane

:2017-07-05 **Test Date**

Temp./Humi. :22 deg C / 61 RH

Engineer :Tin

:VERTICAL Measurement Antenna Pol.



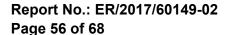
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2483.50	Е	Average	28.41	-1.62	26.79	54.00	-27.21
2483.50	Ε	Peak	40.31	-1.62	38.69	74.00	-35.31

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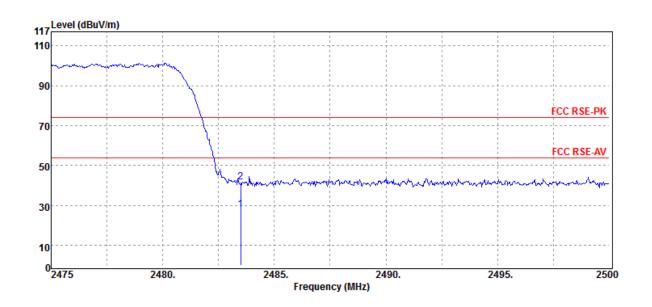
:EDR Hopping :2480 MHz :Bandedge CH HIGH

:E2 Plane

:2017-07-05 **Test Date** Temp./Humi. :22 deg C / 61 RH

Engineer

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Average	29.73	-1.62	28.11	54.00	-25.89
2483.50	E	Peak	43.17	-1.62	41.55	74.00	-32.45

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Report No.: ER/2017/60149-02

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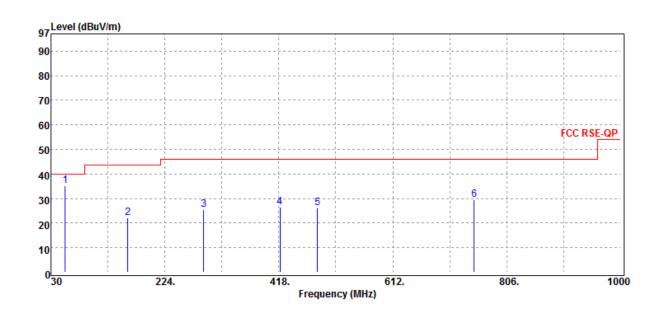
Radiated Spurious Emission Measurement Result: For Frequency form 30MHz to 1000MHz

Operation Band :EDR(3M) **Test Date** :2017-07-05

Fundamental Frequency :2402 MHz Temp./Humi. :22 deg C / 61 RH

:Tx CH LOW Operation Mode Engineer :Tin

EUT Pol. :E2 Plane :VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
54.25	S	Peak	42.99	-7.82	35.17	40.00	-4.83
160.95	S	Peak	29.52	-7.43	22.09	43.50	-21.41
289.96	S	Peak	31.61	-6.07	25.54	46.00	-20.46
419.94	S	Peak	29.80	-3.39	26.41	46.00	-19.59
483.96	S	Peak	28.65	-2.47	26.18	46.00	-19.82
750.71	S	Peak	26.91	2.76	29.67	46.00	-16.33

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台灣檢驗科技股份有限公司







EUT Pol.

:EDR(3M) :2402 MHz :Tx CH LOW

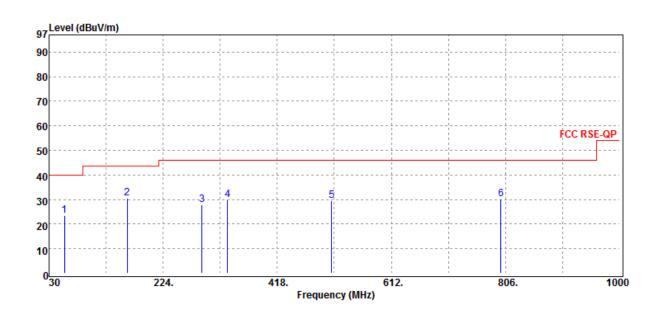
:E2 Plane

Test Date Temp./Humi. :2017-07-05

:22 deg C / 61 RH

Engineer

Measurement Antenna Pol. :HORIZONTAL

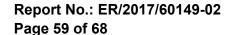


Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
							_
56.19	S	Peak	31.32	-7.91	23.41	40.00	-16.59
162.89	S	Peak	38.15	-7.48	30.67	43.50	-12.83
289.96	S	Peak	33.94	-6.07	27.87	46.00	-18.13
333.61	S	Peak	35.21	-5.29	29.92	46.00	-16.08
510.15	S	Peak	31.77	-2.19	29.58	46.00	-16.42
798.24	S	Peak	27.08	3.11	30.19	46.00	-15.81

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EUT Pol.

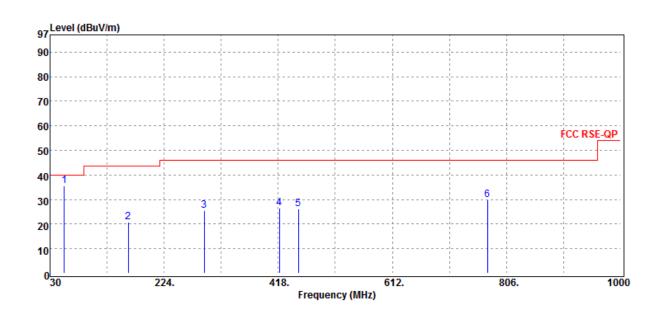
:EDR(3M) :2441 MHz :Tx CH MID :E2 Plane

Test Date :2017-07-05 Temp./Humi.

:22 deg C / 61 RH

Engineer

Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
54.25	S	Peak	43.54	-7.82	35.72	40.00	-4.28
162.89	S	Peak	28.28	-7.48	20.80	43.50	-22.70
291.90	S	Peak	31.73	-6.08	25.65	46.00	-20.35
419.94	S	Peak	29.83	-3.39	26.44	46.00	-19.56
451.95	S	Peak	29.13	-2.84	26.29	46.00	-19.71
773.99	S	Peak	27.03	2.78	29.81	46.00	-16.19

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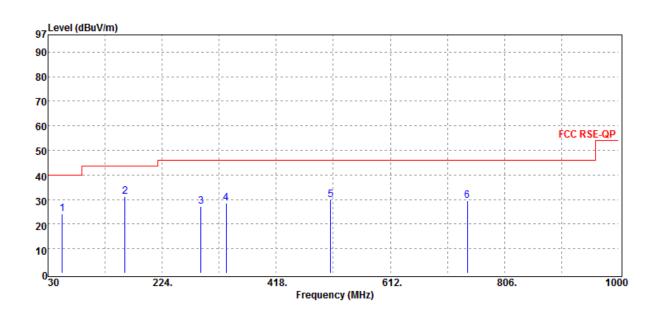


:EDR(3M) :2441 MHz :Tx CH MID :E2 Plane

Test Date :2017-07-05 Temp./Humi. :22 deg C / 61 RH

Engineer

Measurement Antenna Pol. :HORIZONTAL

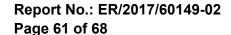


Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
							_
54.25	S	Peak	31.84	-7.82	24.02	40.00	-15.98
160.95	S	Peak	38.68	-7.43	31.25	43.50	-12.25
289.96	S	Peak	33.27	-6.07	27.20	46.00	-18.80
332.64	S	Peak	33.76	-5.30	28.46	46.00	-17.54
510.15	S	Peak	32.16	-2.19	29.97	46.00	-16.03
742.95	S	Peak	27.43	2.27	29.70	46.00	-16.30

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:2480 MHz :Tx CH HIGH EUT Pol. :E2 Plane

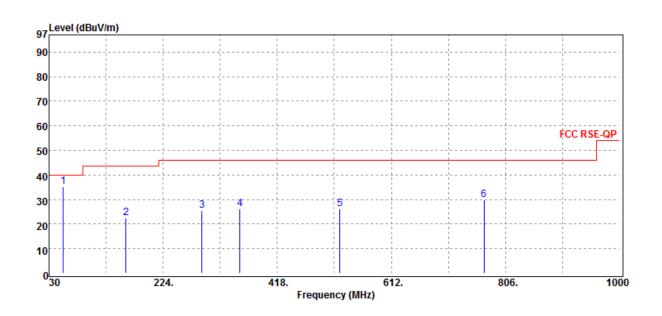
:EDR(3M)

Test Date :2017-07-05

Temp./Humi. :22 deg C / 61 RH

Engineer

Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
54.25	S	Peak	43.08	-7.82	35.26	40.00	-4.74
160.95	S	Peak	29.85	-7.43	22.42	43.50	-21.08
289.96	S	Peak	31.42	-6.07	25.35	46.00	-20.65
354.95	S	Peak	31.01	-4.75	26.26	46.00	-19.74
524.70	S	Peak	27.73	-1.68	26.05	46.00	-19.95
769.14	S	Peak	27.06	2.77	29.83	46.00	-16.17

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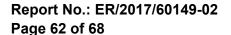
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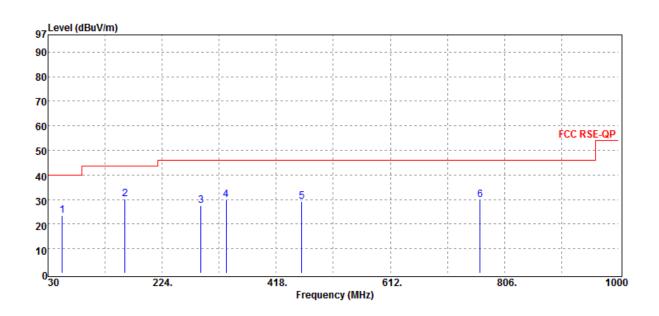


:EDR(3M) :2480 MHz :Tx CH HIGH :E2 Plane

Test Date :2017-07-05 Temp./Humi. :22 deg C / 61 RH

Engineer

Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
54.25	S	Peak	31.46	-7.82	23.64	40.00	-16.36
160.95	S	Peak	37.66	-7.43	30.23	43.50	-13.27
289.96	S	Peak	33.63	-6.07	27.56	46.00	-18.44
332.64	S	Peak	35.03	-5.30	29.73	46.00	-16.27
461.65	S	Peak	31.87	-2.60	29.27	46.00	-16.73
764.29	S	Peak	27.04	2.97	30.01	46.00	-15.99

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Radiated Spurious Emission Measurement Result:

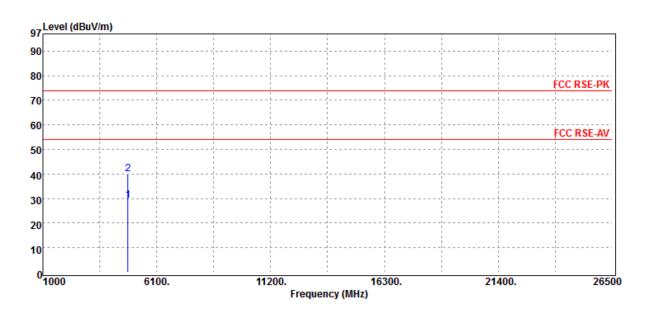
For Frequency above 1 GHz

Operation Band :EDR(3M) **Test Date** :2017-07-05

Fundamental Frequency :2402 MHz Temp./Humi. :23 deg C / 62 RH

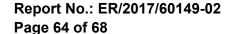
:Tx CH LOW **Operation Mode** Engineer

EUT Pol. :E2 Plane :VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4804.00	Н	Average	24.20	4.92	29.12	54.00	-24.88
4804.00	Н	Peak	34.85	4.92	39.77	74.00	-34.23

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Operation Mode EUT Pol.

:EDR(3M) :2402 MHz :Tx CH LOW

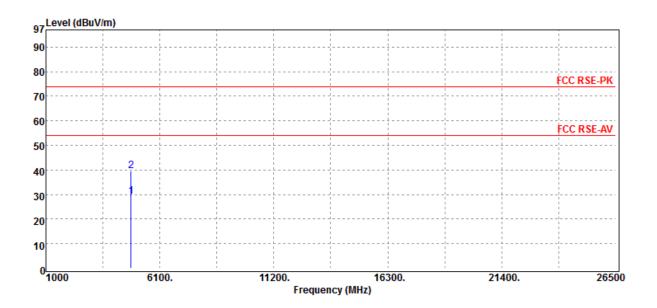
:E2 Plane

Test Date :2017-07-05

Temp./Humi. :23 deg C / 62 RH

Engineer

:HORIZONTAL Measurement Antenna Pol.

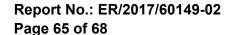


Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB	
4804.00	Н	Average	24.27	4.92	29.19	54.00	-24.81	
4804.00	Н	Peak	34.79	4.92	39.71	74.00	-34.29	

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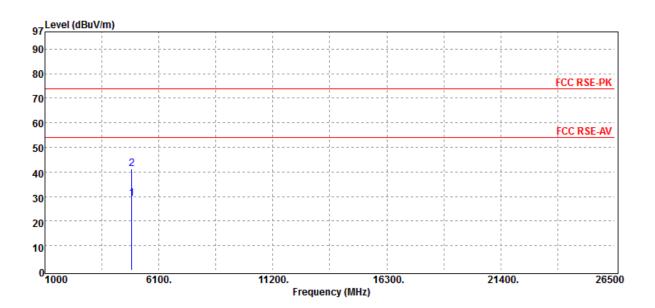


Operation Band :EDR(3M) **Test Date** :2017-07-05

Fundamental Frequency :2441 MHz Temp./Humi. :23 deg C / 62 RH

Operation Mode :Tx CH MID Engineer

EUT Pol. :E2 Plane :VERTICAL Measurement Antenna Pol.



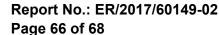
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
							_
4882.00	Н	Average	24.09	5.18	29.27	54.00	-24.73
4882.00	Н	Peak	36.24	5.18	41.42	74.00	-32.58

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Operation Mode EUT Pol.

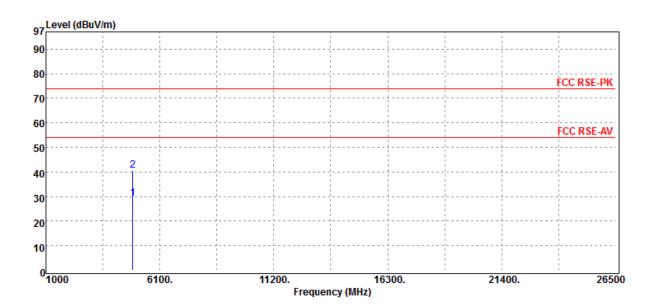
:EDR(3M) :2441 MHz :Tx CH MID :E2 Plane

Test Date :2017-07-05

Temp./Humi. :23 deg C / 62 RH

Engineer

:HORIZONTAL Measurement Antenna Pol.

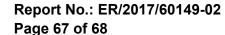


Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
							_
4882.00	Н	Average	24.18	5.18	29.36	54.00	-24.64
4882.00	Н	Peak	35.36	5.18	40.54	74.00	-33.46

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Operation Mode EUT Pol.

:EDR(3M) :2480 MHz :Tx CH HIGH

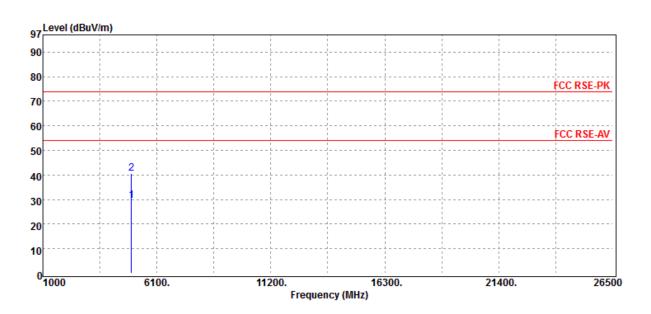
:E2 Plane

Test Date :2017-07-05

Temp./Humi. :23 deg C / 62 RH

Engineer

:VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4960.00	Н	Average	24.11	5.29	29.40	54.00	-24.60
4960.00	Н	Peak	35.47	5.29	40.76	74.00	-33.24

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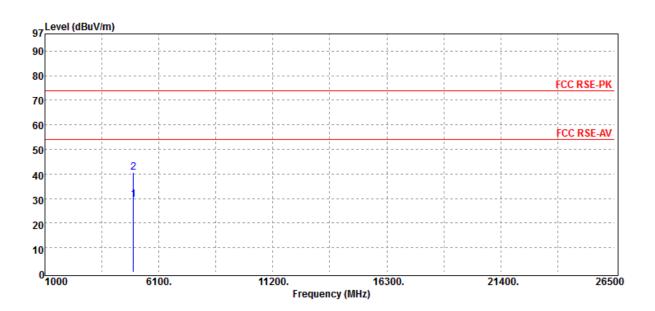
Operation Band Fundamental Frequency Operation Mode EUT Pol.

:EDR(3M) :2480 MHz :Tx CH HIGH :E2 Plane

Test Date :2017-07-05 Temp./Humi. :23 deg C / 62 RH

Engineer

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4960.00	Н	Average	24.14	5.29	29.43	54.00	-24.57
4960.00	Н	Peak	35.49	5.29	40.78	74.00	-33.22

~ End of Report ~

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