



Report No.: SZEM190101054002

Page: 1 of 150

## TEST REPORT

Application No.: SZEM1901010540CR

**Applicant:** Skullcandy Inc.

Address of Applicant: 6301 N Landmark Dr, Park City, Utah 84098, United States

Manufacturer: Skullcandy Inc.

Address of Manufacturer: 6301 N Landmark Dr, Park City, Utah 84098, United States

**Equipment Under Test (EUT):** 

EUT Name: Indy/IndyXT Model No.: S2SSW

Trade mark:

FCC ID:

Skullcandy Y22-S2SSW

Standard(s): 47 CFR Part 15, Subpart C 15.247

**Date of Receipt:** 2019-01-22

**Date of Test:** 2019-01-28 to 2019-01-29

**Date of Issue:** 2019-03-07

Test Result: Pass\*

中国・深圳・科技园中区M-10栋一号厂房

Keny Xu EMC Laboratory Manager



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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



Report No.: SZEM190101054002

Page: 2 of 150

	Revision Record						
Version	Version Chapter Date Modifier Remai						
01		2019-03-07		Original			

Authorized for issue by:		
	Bonson Wang	
	Benson Wang /Project Engineer	
	EvicFu	
	Eric Fu /Reviewer	



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Report No.: SZEM190101054002

Page: 3 of 150

## **Test Summary**

Radio Spectrum Technical Requirement							
Item	Standard	Method	Requirement	Result			
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(c)	Pass			
Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.247(a)(1),(g),(h)	Pass			

Radio Spectrum Matter Part						
Item	Standard	Method	Requirement	Result		
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.5	47 CFR Part 15, Subpart C 15.247(b)(1)	Pass		
20dB Bandwidth	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.7	47 CFR Part 15, Subpart C 15.247(a)(1)	Pass		
Carrier Frequencies Separation	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.2	47 CFR Part 15, Subpart C 15.247a(1)	Pass		
Hopping Channel Number	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.3	47 CFR Part 15, Subpart C 15.247a(1)(iii)	Pass		
Dwell Time	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.4	47 CFR Part 15, Subpart C 15.247a(1)(iii)	Pass		
Conducted Band Edges Measurement	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.6	47 CFR Part 15, Subpart C 15.247(d)	Pass		
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.8	47 CFR Part 15, Subpart C 15.247(d)	Pass		
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass		
Radiated Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass		



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Report No.: SZEM190101054002

Page: 4 of 150

## **Contents**

		Page
1	COVER PAGE	1
2	TEST SUMMARY	3
3	CONTENTS	4
4	GENERAL INFORMATION	6
	4.1 DETAILS OF E.U.T	
	4.2 DESCRIPTION OF SUPPORT UNITS	
	4.3 MEASUREMENT UNCERTAINTY	
	4.4 TEST LOCATION	
	4.5 TEST FACILITY	
	4.6 DEVIATION FROM STANDARDS	
	4.7 ABNORMALITIES FROM STANDARD CONDITIONS	
5	EQUIPMENT LIST	8
6	RADIO SPECTRUM TECHNICAL REQUIREMENT	12
	6.1 Antenna Requirement	12
	6.1.1 Test Requirement:	
	6.1.2 Conclusion	
	6.2 OTHER REQUIREMENTS FREQUENCY HOPPING SPREAD SPECTRUM SYSTEM HOPPING SEQUENCE	
	6.2.1 Test Requirement:	
_		
7		
	7.1 CONDUCTED PEAK OUTPUT POWER	
	7.1.1 E.U.T. Operation	
	7.1.2 Test Setup Diagram7.1.3 Measurement Procedure and Data	
	7.2 20DB BANDWIDTH	
	7.2.1 E.U.T. Operation	
	7.2.2 Test Setup Diagram	
	7.2.3 Measurement Procedure and Data	
	7.3 CARRIER FREQUENCIES SEPARATION	
	7.3.1 E.U.T. Operation	
	7.3.3 Measurement Procedure and Data	
	7.4 HOPPING CHANNEL NUMBER	
	7.4.1 E.U.T. Operation	21
	7.4.2 Test Setup Diagram	
	7.4.3 Measurement Procedure and Data	
	7.5 DWELL TIME	
	7.5.1 E.U.T. Operation	
	7.5.3 Measurement Procedure and Data	
		0



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Report No.: SZEM190101054002

Page: 5 of 150

	7.6	CONDUCTED BAND EDGES MEASUREMENT	24
	7.6.1		
	7.6.2	•	
	7.6.3	, •	
	7.7	CONDUCTED SPURIOUS EMISSIONS	27
	7.7.1		
	7.7.2	Test Setup Diagram	28
	7.7.3		
	7.8	RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS	29
	7.8.1	E.U.T. Operation	30
	7.8.2	Test Setup Diagram	30
	7.8.3		
	7.9	RADIATED SPURIOUS EMISSIONS	40
	7.9.1	E.U.T. Operation	41
	7.9.2	Test Setup Diagram	41
	7.9.3	Measurement Procedure and Data	42
8	PHO	TOGRAPHS	58
	8.1	TEST SETUP	58
	8.2	EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS)	58
9	APPE	ENDIX	59
	9.1	APPENDIX 15.247-LEFT EARBUDS	59
		APPENDIX 15.247-RIGHT EARBUDS	



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Report No.: SZEM190101054002

Page: 6 of 150

## **General Information**

## 4.1 Details of E.U.T.

Power supply:	Left earbuds: Li-Ion Polymer Battery 3.7V 40mAh (Charge by travel case)
	Right earbuds: Li-Ion Polymer Battery 3.7V 40mAh (Charge by travel case)
	travel case with backup battery: Li-Ion Polymer Battery 3.7V 400mAh (Charged by USB port)
Cable:	Usb cable: 28cm unshielded
Bluetooth Version:	V5.0 Classic
Operation Frequency:	2402MHz to 2480MHz
Spectrum Spread Technology:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, π/4DQPSK, 8DPSK
Channel Spacing:	1MHz
Number of Channels:	79
Antenna Type:	Integral Antenna
Antenna Gain:	Left earbuds: 2.72dBi; Right earbuds: 1.86dBi

## 4.2 Description of Support Units

The EUT has been tested as an independent unit.

## 4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	± 7.25 x 10 <sup>-8</sup>
2	Duty cycle	± 0.37%
3	Occupied Bandwidth	± 3%
4	RF conducted power	± 0.75dB
5	RF power density	± 2.84dB
6	Conducted Spurious emissions	± 0.75dB
7	DE Dadiated newer	± 4.5dB (below 1GHz)
/	RF Radiated power	± 4.8dB (above 1GHz)
8	Dedicted Courieus emission test	± 4.5dB (Below 1GHz)
0	Radiated Spurious emission test	± 4.8dB (Above 1GHz)
9	Temperature test	± 1 ℃
10	Humidity test	± 3%
11	Supply voltages	± 1.5%
12	Time	± 3%



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Page: 7 of 150

#### 4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

## 4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

#### CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

#### A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz. Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

#### • FCC -Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

#### · Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

### 4.6 Deviation from Standards

None

#### 4.7 Abnormalities from Standard Conditions

None



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Report No.: SZEM190101054002

Page: 8 of 150

#### 5 **Equipment List**

Conducted Peak Output Power						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2018-09-25	2019-09-24	
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2018-09-27	2019-09-26	
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-02	2018-07-12	2019-07-11	
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A	
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2018-09-27	2019-09-26	
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2018-09-25	2019-09-24	

20dB Bandwidth							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2018-09-25	2019-09-24		
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2018-09-27	2019-09-26		
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM031-02	2018-07-12	2019-07-11		
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A		
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2018-09-27	2019-09-26		
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2018-09-25	2019-09-24		

Carrier Frequencies Separation						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2018-09-25	2019-09-24	
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2018-09-27	2019-09-26	
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-02	2018-07-12	2019-07-11	
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A	
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2018-09-27	2019-09-26	
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2018-09-25	2019-09-24	

Hopping Channel Number						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2018-09-25	2019-09-24	
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2018-09-27	2019-09-26	



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Page: 9 of 150

Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2018-07-12	2019-07-11
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2018-09-27	2019-09-26
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2018-09-25	2019-09-24

Dwell Time					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2018-09-25	2019-09-24
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2018-09-27	2019-09-26
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2018-07-12	2019-07-11
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2018-09-27	2019-09-26
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2018-09-25	2019-09-24

Conducted Band Edges Measurement					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2018-09-25	2019-09-24
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2018-09-27	2019-09-26
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2018-07-12	2019-07-11
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2018-09-27	2019-09-26
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2018-09-25	2019-09-24

Conducted Spurious Er	nissions				
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2018-09-25	2019-09-24
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2018-09-27	2019-09-26
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2018-07-12	2019-07-11
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2018-09-27	2019-09-26
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2018-09-25	2019-09-24



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Report No.: SZEM190101054002

Page: 10 of 150

Faurina and	Manufacturer Madal Na Inventors No Cal Bata Cal Bus B				Oal Dua Data
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2018-07-12	2019-07-11
EXA Spectrum Analyzer	AgilentTechnologies Inc	N9010A	SEM004-12	2018-04-13	2019-04-12
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2017-06-27	2020-06-26
Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Horn Antenna (15GHz-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16
Pre-amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2018-09-25	2019-09-24
Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2018-11-12	2019-11-11
Pre-amplifier(18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2018-04-02	2019-04-01
Pre-amplifier (26GHz-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2018-04-02	2019-04-01
DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2018-09-25	2019-09-24
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21

RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2018-03-31	2021-03-30
EMI Test Receiver (9kHz-7GHz)	Rohde & Schwarz	ESR	SEM004-03	2018-04-02	2019-04-01
Trilog-Broadband Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SEM003-18	2016-06-29	2019-06-28
Pre-amplifier (9kHz-1GHz)	Sonoma Instrument Co	310N	SEM005-04	2018-04-13	2019-04-12
Loop Antenna (9kHz-30MHz)	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A



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Report No.: SZEM190101054002

Page: 11 of 150

Coaxial Cable SGS N/A SEM029-01 2018-0	7-12 2019-07-11
--	-----------------

Radiated Spurious Emis	ssions				
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2018-07-12	2019-07-11
EXA Spectrum Analyzer	AgilentTechnologies Inc	N9010A	SEM004-12	2018-04-13	2019-04-12
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2017-06-27	2020-06-26
Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Horn Antenna (15GHz-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16
Pre-amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2018-09-25	2019-09-24
Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2018-11-12	2019-11-11
Pre-amplifier (18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2018-04-02	2019-04-01
Pre-amplifier (26GHz-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2018-04-02	2019-04-01
DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2018-09-25	2019-09-24

General used equipmen	t				
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2018-09-27	2019-09-26
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2018-09-27	2019-09-26
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2018-09-27	2019-09-26
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2018-04-08	2019-04-07



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Report No.: SZEM190101054002

Page: 12 of 150

#### Radio Spectrum Technical Requirement 6

## 6.1 Antenna Requirement

## 6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(c)

#### 6.1.2 Conclusion

#### Standard 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.

#### EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna as below:

Left earbuds: 2.72dBi; Right earbuds: 1.86dBi.

Antenna location: Refer to Appendix(Internal photos)





Report No.: SZEM190101054002

Page: 13 of 150

## 6.2 Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence

#### 6.2.1 Test Requirement:

47 CFR Part 15, Subpart C 15.247(a)(1),(g),(h)

#### 6.2.2 Conclusion

Standard Requirement:

The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmitter be presented with a continuous data (or information) stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section.

The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

Compliance for section 15.247(a)(1):

According to Technical Specification, the pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONEs; i.e. the shift register is initialized with nine ones.

- > Number of shift register stages: 9
- > Length of pseudo-random sequence: 29 -1 = 511 bits
- > Longest sequence of zeros: 8 (non-inverted signal)

Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:



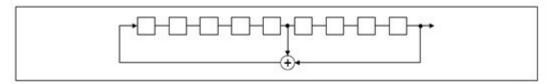
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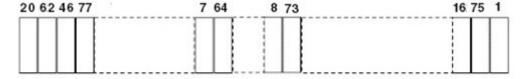
Report No.: SZEM190101054002

Page: 14 of 150



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:



Each frequency used equally on the average by each transmitter.

According to Technical Specification, the receivers are designed to have input and IF bandwidths that match the hopping channel bandwidths of any transmitters and shift frequencies in synchronization with the transmitted signals.

Compliance for section 15.247(g):

According to Technical Specification, the system transmits the packet with the pseudorandom hopping frequency with a continuous data and the short burst transmission from the Bluetooth system is also transmitted under the frequency hopping system with the pseudorandom hopping frequency system.

Compliance for section 15.247(h):

According to Technical specification, the system incorporates with an adaptive system to detect other user within the spectrum band so that it individually and independently to avoid hopping on the occupied channels.

The system is designed not have the ability to coordinated with other FHSS System in an effort to avoid the simultaneous occupancy of individual hopping frequencies by multiple transmitter.



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Page: 15 of 150

#### 7 **Radio Spectrum Matter Test Results**

## 7.1 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(1) Test Method: ANSI C63.10 (2013) Section 7.8.5

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
	1 for ≥50 hopping channels
902-928	0.25 for 25≤ hopping channels <50
	1 for digital modulation
	1 for ≥75 non-overlapping hopping channels
2400-2483.5	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation



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Page: 16 of 150

#### 7.1.1 E.U.T. Operation

Operating Environment:

23.4 °C Temperature: Humidity: 47.7 % RH Atmospheric Pressure: 1020 mbar

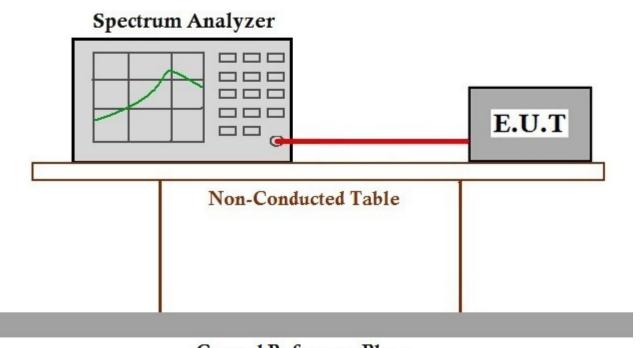
Pretest these modes to find the worst case: c:TX non-Hop mode(Left earbuds) Keep the EUT in continuously transmitting mode with GFSK modulation,  $\pi/4DQPSK$  modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

g:TX\_non-Hop mode(Right earbuds)\_Keep the EUT in continuously transmitting mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

The worst case for final test:

c:TX\_non-Hop mode(Left earbuds)\_Keep the EUT in continuously transmitting mode with GFSK modulation,  $\pi/4DQPSK$  modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report. g:TX\_non-Hop mode(Right earbuds)\_Keep the EUT in continuously transmitting mode with GFSK modulation,  $\pi/4DQPSK$  modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

#### 7.1.2 Test Setup Diagram



## Ground Reference Plane

#### 7.1.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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Page: 17 of 150

#### 7.2 20dB Bandwidth

**Test Requirement** 47 CFR Part 15, Subpart C 15.247(a)(1) Test Method: ANSI C63.10 (2013) Section 7.8.7

## 7.2.1 E.U.T. Operation

Operating Environment:

Temperature: Humidity: 47.7 % RH Atmospheric Pressure: 1020 mbar

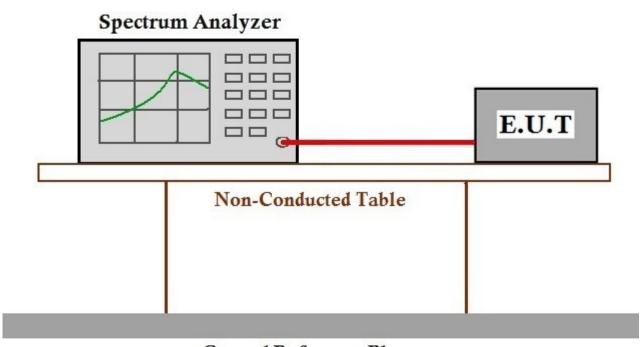
Pretest these modes to find the worst case: c:TX\_non-Hop mode(Left earbuds)\_Keep the EUT in continuously transmitting mode with GFSK modulation,  $\pi/4DQPSK$  modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

g:TX non-Hop mode(Right earbuds) Keep the EUT in continuously transmitting mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

The worst case for final test:

c:TX non-Hop mode(Left earbuds) Keep the EUT in continuously transmitting mode with GFSK modulation,  $\pi/4DQPSK$  modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report. g:TX\_non-Hop mode(Right earbuds)\_Keep the EUT in continuously transmitting mode with GFSK modulation,  $\pi/4DQPSK$  modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

#### 7.2.2 Test Setup Diagram



## Ground Reference Plane

## 7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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Report No.: SZEM190101054002

Page: 18 of 150

## 7.3 Carrier Frequencies Separation

Test Requirement 47 CFR Part 15, Subpart C 15.247a(1) Test Method: ANSI C63.10 (2013) Section 7.8.2

Limit: 2/3 of the 20dB bandwidth base on the transmission power is less than

0.125W



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Report No.: SZEM190101054002

Page: 19 of 150

#### 7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C Humidity: 47.7 % RH Atmospheric Pressure: 1020 mbar

Pretest these modes to find the worst case: b:TX Hop mode(Left earbuds) Keep the EUT in frequency hopping mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have

been tested and only the data of worst case is recorded in the report.

f:TX\_Hop mode(Right earbuds)\_Keep the EUT in frequency hopping mode with GFSK modulation,  $\pi/4DQPSK$  modulation, 8DPSK modulation. All modes have

been tested and only the data of worst case is recorded in the report.

The worst case for final test:

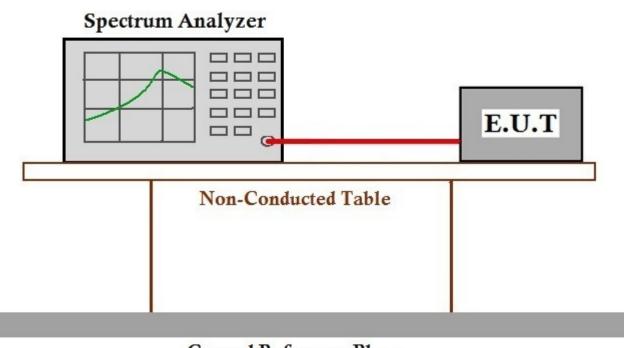
b:TX Hop mode(Left earbuds) Keep the EUT in frequency hopping mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have

been tested and only the data of worst case is recorded in the report.

f:TX Hop mode(Right earbuds) Keep the EUT in frequency hopping mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have

been tested and only the data of worst case is recorded in the report.

#### 7.3.2 Test Setup Diagram



## Ground Reference Plane

#### 7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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Report No.: SZEM190101054002

Page: 20 of 150

## 7.4 Hopping Channel Number

Test Requirement 47 CFR Part 15, Subpart C 15.247a(1)(iii)

ANSI C63.10 (2013) Section 7.8.3 Test Method:

Limit:

Frequency range(MHz)	Number of hopping channels (minimum)
002 028	50 for 20dB bandwidth <250kHz
902-928	25 for 20dB bandwidth ≥250kHz
2400-2483.5	15
5725-5850	75



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Page: 21 of 150

#### 7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C Humidity: 47.7 % RH Atmospheric Pressure: 1020 mbar

Pretest these modes to find the worst case: b:TX Hop mode(Left earbuds) Keep the EUT in frequency hopping mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have

been tested and only the data of worst case is recorded in the report.

f:TX\_Hop mode(Right earbuds)\_Keep the EUT in frequency hopping mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have

been tested and only the data of worst case is recorded in the report.

The worst case for final test:

b:TX\_Hop mode(Left earbuds)\_Keep the EUT in frequency hopping mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have

been tested and only the data of worst case is recorded in the report.

f:TX Hop mode(Right earbuds) Keep the EUT in frequency hopping mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

### 7.4.2 Test Setup Diagram

# Spectrum Analyzer E.U.T Non-Conducted Table

## Ground Reference Plane

## 7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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Report No.: SZEM190101054002

Page: 22 of 150

### 7.5 Dwell Time

Test Requirement 47 CFR Part 15, Subpart C 15.247a(1)(iii)

ANSI C63.10 (2013) Section 7.8.4 Test Method:

Limit:

Frequency(MHz)	Limit
902-928	0.4S within a 20S period(20dB bandwidth<250kHz)
902-928	0.4S within a 10S period(20dB bandwidth≥250kHz)
0400 0400 5	0.4S within a period of 0.4S multiplied by the number
2400-2483.5	of hopping channels
5725-5850	0.4S within a 30S period



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Report No.: SZEM190101054002

Page: 23 of 150

#### 7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C Humidity: 47.7 % RH Atmospheric Pressure: 1020 mbar

Pretest these modes to find the worst case: b:TX Hop mode(Left earbuds) Keep the EUT in frequency hopping mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have

been tested and only the data of worst case is recorded in the report.

f:TX\_Hop mode(Right earbuds)\_Keep the EUT in frequency hopping mode with GFSK modulation,  $\pi/4DQPSK$  modulation, 8DPSK modulation. All modes have

been tested and only the data of worst case is recorded in the report.

The worst case for final test:

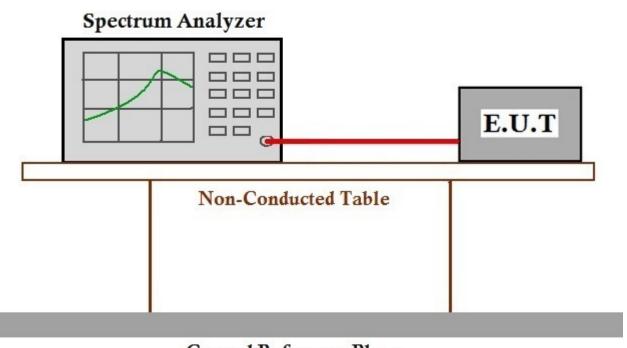
b:TX Hop mode(Left earbuds) Keep the EUT in frequency hopping mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have

been tested and only the data of worst case is recorded in the report.

f:TX Hop mode(Right earbuds) Keep the EUT in frequency hopping mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have

been tested and only the data of worst case is recorded in the report.

#### 7.5.2 Test Setup Diagram



## Ground Reference Plane

#### 7.5.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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Report No.: SZEM190101054002

Page: 24 of 150

## 7.6 Conducted Band Edges Measurement

**Test Requirement** 47 CFR Part 15, Subpart C 15.247(d) Test Method: ANSI C63.10 (2013) Section 7.8.6

Limit:

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

§15.209(a) (see §15.205(c)



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Page: 25 of 150

#### 7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C Humidity: 47.7 % RH Atmospheric Pressure: 1020 mbar

Pretest these modes to find the worst case:

b:TX Hop mode(Left earbuds) Keep the EUT in frequency hopping mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have

been tested and only the data of worst case is recorded in the report.

c:TX non-Hop mode(Left earbuds) Keep the EUT in continuously transmitting mode with GFSK modulation,  $\pi/4DQPSK$  modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

f:TX Hop mode(Right earbuds) Keep the EUT in frequency hopping mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

g:TX\_non-Hop mode(Right earbuds)\_Keep the EUT in continuously transmitting mode with GFSK modulation,  $\pi/4DQPSK$  modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

The worst case for final test:

b:TX Hop mode(Left earbuds) Keep the EUT in frequency hopping mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

c:TX non-Hop mode(Left earbuds)\_Keep the EUT in continuously transmitting mode with GFSK modulation,  $\pi/4DQPSK$  modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

f:TX Hop mode(Right earbuds) Keep the EUT in frequency hopping mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

g:TX\_non-Hop mode(Right earbuds)\_Keep the EUT in continuously transmitting mode with GFSK modulation,  $\pi/4DQPSK$  modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.



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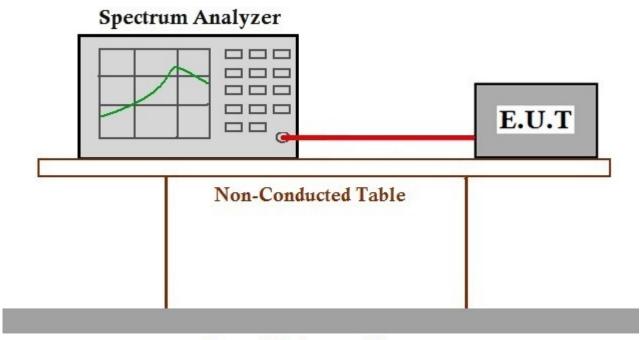
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#### 7.6.2 Test Setup Diagram



## Ground Reference Plane

#### 7.6.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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Page: 27 of 150

## 7.7 Conducted Spurious Emissions

47 CFR Part 15, Subpart C 15.247(d) Test Requirement Test Method: ANSI C63.10 (2013) Section 7.8.8

Limit:

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

§15.209(a) (see §15.205(c)



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Page: 28 of 150

#### 7.7.1 E.U.T. Operation

Operating Environment:

23.4 °C Temperature: Humidity: 47.7 % RH Atmospheric Pressure: 1020 mbar

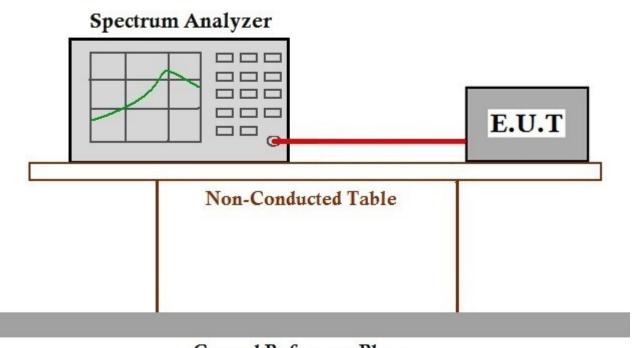
Pretest these modes to find the worst case: c:TX non-Hop mode(Left earbuds) Keep the EUT in continuously transmitting mode with GFSK modulation,  $\pi/4DQPSK$  modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

g:TX\_non-Hop mode(Right earbuds)\_Keep the EUT in continuously transmitting mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

The worst case for final test:

c:TX\_non-Hop mode(Left earbuds)\_Keep the EUT in continuously transmitting mode with GFSK modulation,  $\pi/4DQPSK$  modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report. g:TX\_non-Hop mode(Right earbuds)\_Keep the EUT in continuously transmitting mode with GFSK modulation,  $\pi/4DQPSK$  modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

#### 7.7.2 Test Setup Diagram



## Ground Reference Plane

#### 7.7.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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Report No.: SZEM190101054002

Page: 29 of 150

### 7.8 Radiated Emissions which fall in the restricted bands

47 CFR Part 15, Subpart C 15.205 & 15.209 Test Requirement

ANSI C63.10 (2013) Section 6.10.5 Test Method:

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.





Report No.: SZEM190101054002

Page: 30 of 150

## 7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 21.8 °C Atmospheric Pressure: 1020 mbar Humidity: 56.9 % RH

Pretest these modes to find the worst case:

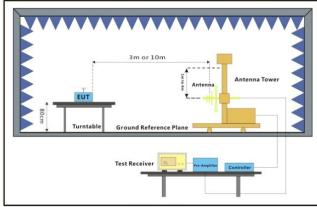
c:TX non-Hop mode(Left earbuds) Keep the EUT in continuously transmitting mode with GFSK modulation,  $\pi/4DQPSK$  modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

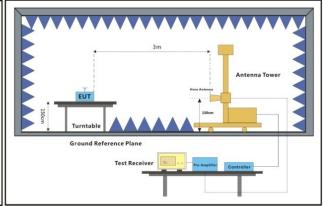
g:TX\_non-Hop mode(Right earbuds)\_Keep the EUT in continuously transmitting mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

The worst case for final test:

c:TX\_non-Hop mode(Left earbuds)\_Keep the EUT in continuously transmitting mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report. g:TX\_non-Hop mode(Right earbuds)\_Keep the EUT in continuously transmitting mode with GFSK modulation,  $\pi/4DQPSK$  modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

#### 7.8.2 Test Setup Diagram





30MHz-1GHz Above 1GHz



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Report No.: SZEM190101054002

Page: 31 of 150

#### 7.8.3 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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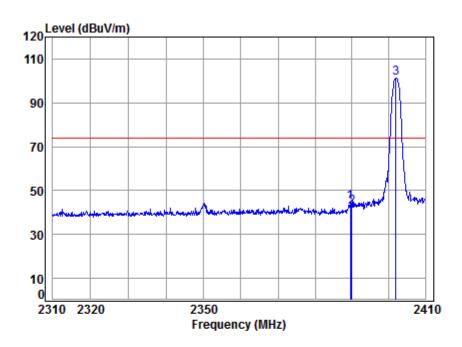


Report No.: SZEM190101054002

Page: 32 of 150

For Left earbuds:

Mode: c; Polarization: Horizontal; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL : 10540CR/10541CR Mode : 2402 Band edge

Note : BT

	Freq		Ant Factor						
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.558	5.47	28.52	41.17	51.70	44.52	74.00	-29.48	peak
2	2390.000	5.47	28.52	41.17	49.40	42.22	74.00	-31.78	peak
3 *	2402 000	5 49	28 54	41 18	108 29	101 14	74 00	27 14	neak



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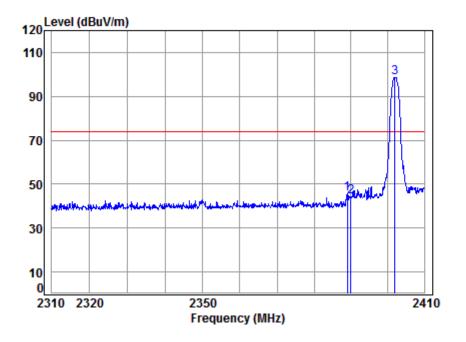
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Report No.: SZEM190101054002

Page: 33 of 150

Mode :c; Polarization: Vertical; Channel: Low



Site : chamber Condition: 3m VERTICAL

Job No : 10540CR/10541CR Mode : 2402 Band edge

Note : BT

	Freq		Ant Factor						Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2388.951	5.47	28.52	41.17	52.96	45.78	74.00	-28.22	peak
2	2390.000	5.47	28.52	41.17	51.52	44.34	74.00	-29.66	peak
3	* 2402.000	5.49	28.54	41.18	105.89	98.74	74.00	24.74	peak



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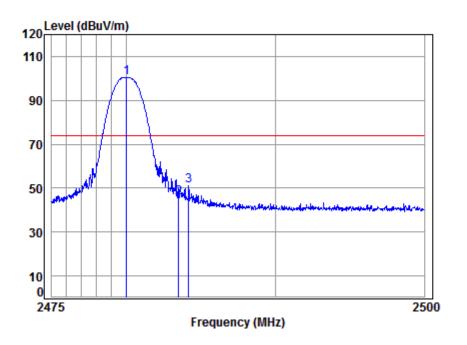
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Report No.: SZEM190101054002

Page: 34 of 150

Mode: c; Polarization: Horizontal; Channel: High



Site : chamber

Condition: 3m HORIZONTAL Job No : 10540CR/10541CR Mode : 2480 Band edge

Note : BT

000										
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
_										
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 *	2480.000	5.59	28.67	41.21	107.53	100.58	74.00	26.58	peak	
2	2483.500	5.60	28.67	41.21	52.64	45.70	74.00	-28.30	peak	
3	2484.146	5.60	28.67	41.21	57.93	50.99	74.00	-23.01	peak	



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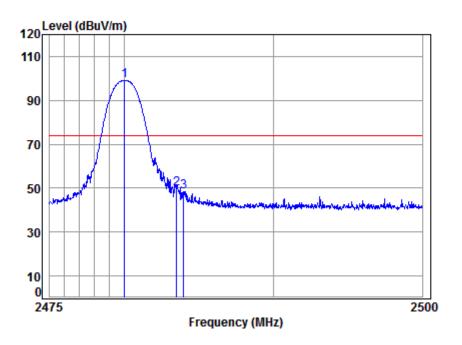
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Report No.: SZEM190101054002

Page: 35 of 150

Mode :c; Polarization: Vertical; Channel: High



: chamber Site Condition: 3m VERTICAL

Job No : 10540CR/10541CR Mode : 2480 Band edge

Note : BT

Freq					Level			Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2480.000								•
2483.500 2483.946								•



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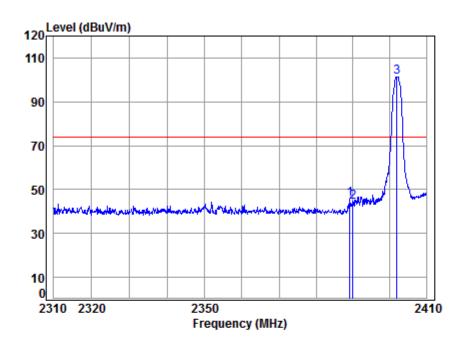


Report No.: SZEM190101054002

Page: 36 of 150

For Right earbuds:

Mode: g; Polarization: Horizontal; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL : 10540CR/10541CR Mode : 2402 Band edge

Note : BT

			Cable	Ant	Preamp	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1		2389.153	5.47	28.52	41.17	52.72	45.54	74.00	-28.46	peak	
2		2390.000	5.47	28.52	41.17	51.47	44.29	74.00	-29.71	peak	
3	*	2402.000	5.49	28.54	41.18	108.57	101.42	74.00	27.42	peak	



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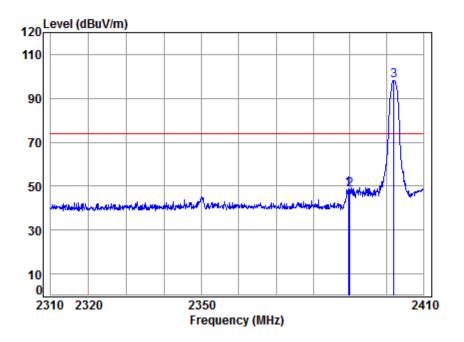
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Report No.: SZEM190101054002

Page: 37 of 150

Mode:g; Polarization: Vertical; Channel: Low



Site : chamber Condition: 3m VERTICAL

Job No : 10540CR/10541CR Mode : 2402 Band edge

Note : BT

> 1 2

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
			-				-		
	2389.558	5.47	28.52	41.17	55.99	48.81	74.00	-25.19	peak
	2390.000	5.47	28.52	41.17	55.55	48.37	74.00	-25.63	peak
*	2402 000	5 //9	28 5/	/11 12	105 24	98 89	7/ 00	2/ 09	neak



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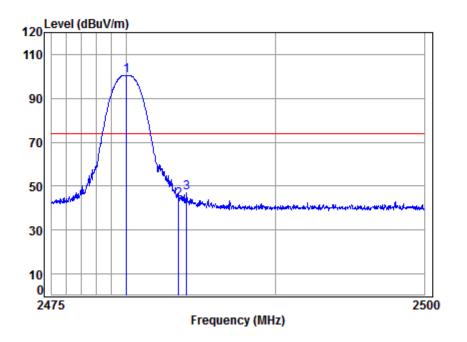
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Report No.: SZEM190101054002

Page: 38 of 150

Mode: g; Polarization: Horizontal; Channel: High



: chamber Site

Condition: 3m HORIZONTAL Job No : 10540CR/10541CR Mode : 2480 Band edge

Note : BT

		Freq		Ant Factor						Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	*	2480.000	5.59	28.67	41.21	107.46	100.51	74.00	26.51	peak
2		2483.500	5.60	28.67	41.21	50.90	43.96	74.00	-30.04	peak
3		2484.021	5.60	28.67	41.21	53.78	46.84	74.00	-27.16	peak



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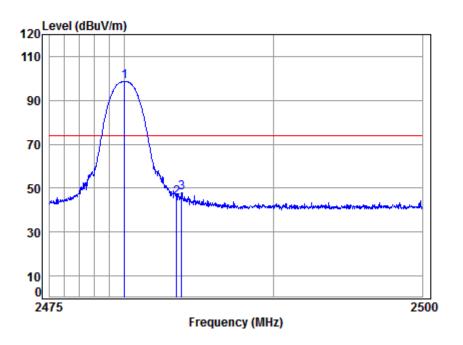
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Report No.: SZEM190101054002

Page: 39 of 150

Mode:g; Polarization: Vertical; Channel: High



: chamber Site Condition: 3m VERTICAL

Job No : 10540CR/10541CR Mode : 2480 Band edge

Note : BT

	Freq				Read Level				Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 *	2480.000	5.59	28.67	41.21	105.39	98.44	74.00	24.44	Peak
2	2483.500	5.60	28.67	41.21	52.55	45.61	74.00	-28.39	Peak
3	2483.821	5.60	28.67	41.21	55.04	48.10	74.00	-25.90	Peak



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Report No.: SZEM190101054002

Page: 40 of 150

#### 7.9 Radiated Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209 Test Method: ANSI C63.10 (2013) Section 6.4,6.5,6.6

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)			
0.009-0.490	2400/F(kHz)	300			
0.490-1.705	24000/F(kHz)	30			
1.705-30.0	30	30			
30-88	100	3			
88-216	150	3			
216-960	200	3			
Above 960	500	3			

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.



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Report No.: SZEM190101054002

Page: 41 of 150

#### 7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 21.8 °C Atmospheric Pressure: 1020 mbar Humidity: 56.9 % RH

Pretest these modes to find the worst case:

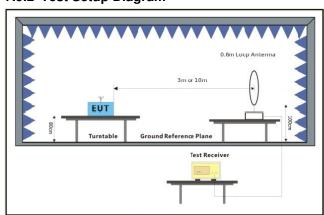
c:TX non-Hop mode(Left earbuds) Keep the EUT in continuously transmitting mode with GFSK modulation,  $\pi/4DQPSK$  modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

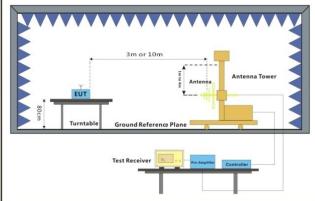
g:TX\_non-Hop mode(Right earbuds)\_Keep the EUT in continuously transmitting mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

The worst case for final test:

c:TX\_non-Hop mode(Left earbuds)\_Keep the EUT in continuously transmitting mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report. g:TX\_non-Hop mode(Right earbuds)\_Keep the EUT in continuously transmitting mode with GFSK modulation,  $\pi/4DQPSK$  modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

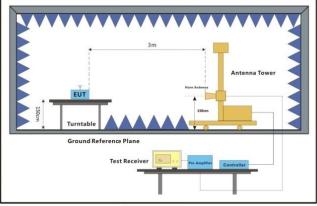
#### 7.9.2 Test Setup Diagram





Below 30MHz

30MHz-1GHz



Above 1GHz



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Report No.: SZEM190101054002

Page: 42 of 150

#### 7.9.3 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

#### Remark:

- 1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

- 3) Scan from 9kHz to 25GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 4) For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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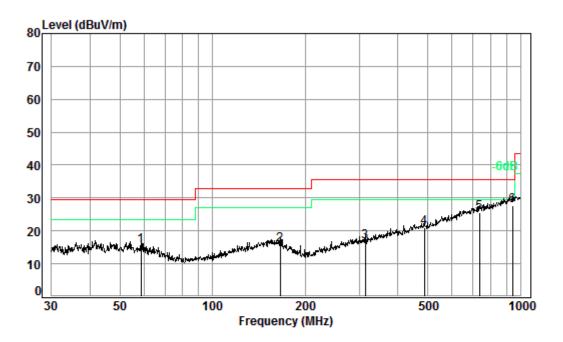
Report No.: SZEM190101054002

Page: 43 of 150

#### 30MHz~1GHz

Left and Right earbuds has been tested and only the data of worst case is recorded in the report.

Mode: c; Polarization: Horizontal;



Condition: 10m HORIZONTAL

Job No. : 10540CR

Test Mode: c

	Freq			Preamp Factor				Over Limit
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	58.61	7.00	12.10	32.54	28.86	15.42	29.50	-14.08
2	166.07	7.50	12.79	32.52	28.08	15.85	33.00	-17.15
3	313.28	8.08	13.04	32.44	28.16	16.84	35.60	-18.76
4	487.32	8.54	16.62	32.42	28.28	21.02	35.60	-14.58
5	737.07	9.20	20.61	32.39	28.20	25.62	35.60	-9.98
6 nn	942 13	9 56	22 68	31 21	26 79	27 82	35 60	-7 78



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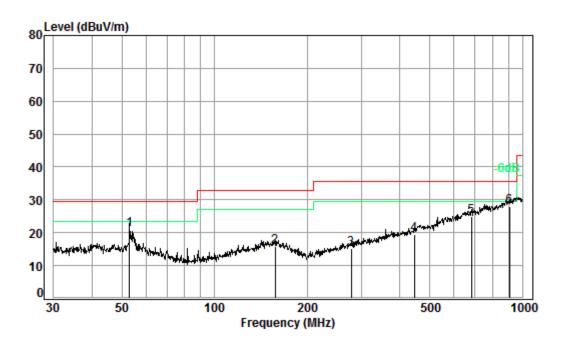
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Report No.: SZEM190101054002

Page: 44 of 150

Mode :c; Polarization: Vertical



Condition: 10m VERTICAL

Job No. : 10540CR

Test Mode: c

	Freq			Preamp Factor				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	52.95	6.96	12.54	32.52	33.94	20.92	29.50	-8.58
2	157.56	7.49	13.39	32.51	27.31	15.68	33.00	-17.32
3	278.07	7.99	12.10	32.46	27.73	15.36	35.60	-20.24
4	446.41	8.42	16.09	32.42	27.47	19.56	35.60	-16.04
5	682.35	9.11	19.92	32.39	28.30	24.94	35.60	-10.66
6 pr	909.67	9.50	22.35	31.46	27.74	28.13	35.60	-7.47



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Page: 45 of 150

The test was performed at a 10m test site. According to below formulate and the test data at 10m test distance.

 $L_3 / L_{10} = D_{10} / D_3$ 

Note:

L<sub>3</sub>: Level @ 3m distance. Unit: uV/m; L<sub>10</sub>: Level @ 10m distance. Unit: uV/m;

D<sub>3</sub>: 3m distance. Unit: m D<sub>10</sub>: 10m distance. Unit: m

The level at 3m test distance is below:

Frequency (MHz)	Level @ 10m (dBuV/m)	Level @ 10m (uV/m)	Level @ 3m (uV/m)	Level @ 3m (dBuV/m)	Limit @ 3m (dBuV/m)	Margin (dB)	Ant. Polarization
52.95	20.92	11.12	37.06	31.38	40.00	-8.62	V
157.56	15.68	6.08	20.27	26.14	43.50	-17.36	V
278.07	25.36	18.54	61.78	35.82	46.00	-10.18	V
446.41	29.56	30.06	100.20	40.02	46.00	-5.98	V
682.35	24.94	17.66	58.87	35.40	46.00	-10.60	V
909.67	28.13	25.50	84.99	38.59	46.00	-7.41	V
58.61	15.42	5.90	19.67	25.88	40.00	-14.12	Н
166.07	15.85	6.20	20.67	26.31	43.50	-17.19	Н
313.28	16.84	6.95	23.17	27.30	46.00	-18.70	Н
487.32	21.02	11.25	37.49	31.48	46.00	-14.52	Н
737.07	25.62	19.10	63.66	36.08	46.00	-9.92	Н
942.13	27.82	24.60	82.01	38.28	46.00	-7.72	Н



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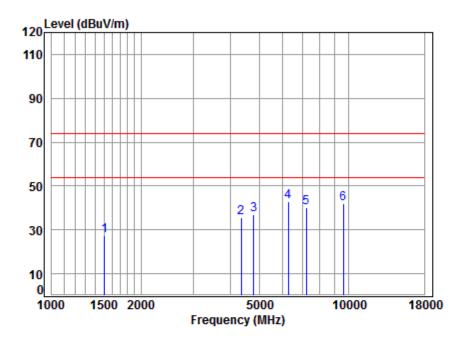


Report No.: SZEM190101054002

Page: 46 of 150

#### **Above 1GHz** For Left earbuds:

Mode: c; Polarization: Horizontal; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL : 10540CR/10541CR : 2402 TX RSE Mode

Note : BT

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1507.470	5.47	25.83	40.71	36.94	27.53	74.00	-46.47	peak
2	4354.454	7.40	33.35	43.15	38.11	35.71	74.00	-38.29	peak
3	4804.000	7.89	33.97	43.61	38.51	36.76	74.00	-37.24	peak
4	6267.553	11.10	35.37	42.60	39.05	42.92	74.00	-31.08	peak
5	7206.000	10.08	36.07	41.86	36.00	40.29	74.00	-33.71	peak
6	9608.000	10.75	37.67	38.43	31.91	41.90	74.00	-32.10	peak



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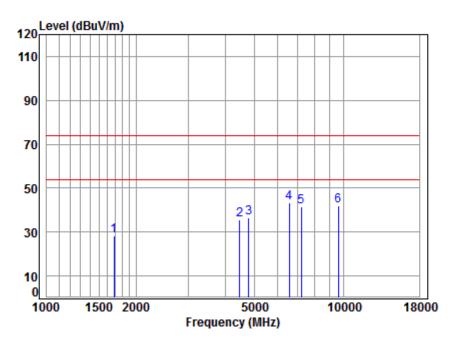
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Report No.: SZEM190101054002

Page: 47 of 150

Mode :c; Polarization: Vertical; Channel: Low



: chamber Site

Condition: 3m VERTICAL

: 10540CR/10541CR Mode : 2402 TX RSE

Note : BT

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1687.347	5.24	26.62	40.82	37.35	28.39	74.00	-45.61	peak
2	4469.214	7.53	33.55	43.27	37.74	35.55	74.00	-38.45	peak
3	4804.000	7.89	33.97	43.61	38.22	36.47	74.00	-37.53	peak
4	6564.209	11.35	35.64	42.35	38.78	43.42	74.00	-30.58	peak
5	7206.000	10.08	36.07	41.86	37.20	41.49	74.00	-32.51	peak
6	9608.000	10.75	37.67	38.43	32.06	42.05	74.00	-31.95	peak



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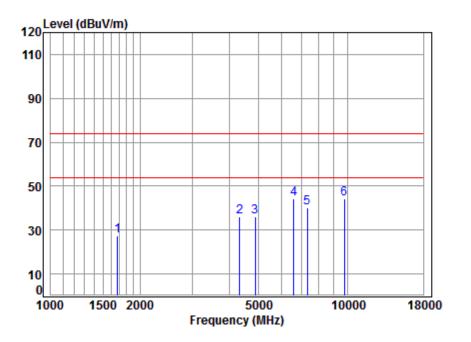
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Report No.: SZEM190101054002

Page: 48 of 150

Mode: c; Polarization: Horizontal; Channel: middle



Site : chamber

Condition: 3m HORIZONTAL : 10540CR/10541CR

Mode : 2441 TX RSE

Note : BT

				_				_	
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1682.477	5.25	26.60	40.82	36.54	27.57	74.00	-46.43	peak
2	4341.886	7.38	33.33	43.14	38.31	35.88	74.00	-38.12	peak
3	4882.000	7.97	34.06	43.69	37.52	35.86	74.00	-38.14	peak
4	6583.209	11.30	35.65	42.34	39.50	44.11	74.00	-29.89	peak
5	7323.000	10.05	36.16	41.77	35.89	40.33	74.00	-33.67	peak
6	9764.000	10.82	37.76	38.17	33.99	44.40	74.00	-29.60	peak



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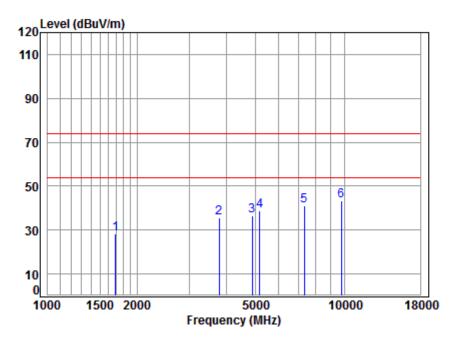
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Report No.: SZEM190101054002

Page: 49 of 150

Mode :c; Polarization: Vertical; Channel: middle



Site : chamber

Condition: 3m VERTICAL

Job No : 10540CR/10541CR

Mode : 2441 TX RSE

Note : BT

ote										
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	1692.231	5.24	26.64	40.83	37.03	28.08	74.00	-45.92	peak	
2	3779.422	6.76	32.28	42.49	38.83	35.38	74.00	-38.62	peak	
3	4882.000	7.97	34.06	43.69	37.95	36.29	74.00	-37.71	peak	
4	5179.049	8.37	34.35	43.61	39.60	38.71	74.00	-35.29	peak	
5	7323.000	10.05	36.16	41.77	36.57	41.01	74.00	-32.99	peak	
6	9764 000	10 82	37 76	38 17	33 06	43 47	74 00	-30 53	neak	



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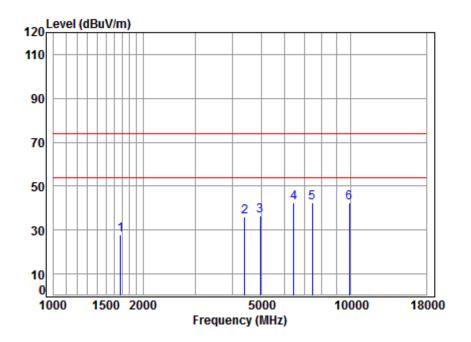
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Report No.: SZEM190101054002

Page: 50 of 150

Mode: c; Polarization: Horizontal; Channel: High



Site : chamber

Condition: 3m HORIZONTAL : 10540CR/10541CR

Mode : 2480 TX RSE

Note : BT

	Cable	Ant	Preamp	Read		Limit	0ver	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1677.621	5.25	26.58	40.82	36.95	27.96	74.00	-46.04	peak
4405.090	7.46	33.44	43.20	38.50	36.20	74.00	-37.80	peak
4960.000	8.05	34.15	43.76	38.27	36.71	74.00	-37.29	peak
6432.732	11.41	35.54	42.46	37.98	42.47	74.00	-31.53	peak
7440.000	10.02	36.25	41.69	37.67	42.25	74.00	-31.75	peak
9920.000	10.90	37.85	37.93	31.80	42.62	74.00	-31.38	peak
	MHz 1677.621 4405.090 4960.000 6432.732 7440.000	Freq Loss  MHz dB  1677.621 5.25 4405.090 7.46 4960.000 8.05 6432.732 11.41 7440.000 10.02	Freq         Loss         Factor           MHz         dB         dB/m           1677.621         5.25         26.58           4405.090         7.46         33.44           4960.000         8.05         34.15           6432.732         11.41         35.54           7440.000         10.02         36.25	Freq         Loss         Factor         Factor           MHz         dB         dB/m         dB           1677.621         5.25         26.58         40.82           4405.090         7.46         33.44         43.20           4960.000         8.05         34.15         43.76           6432.732         11.41         35.54         42.46           7440.000         10.02         36.25         41.69	Freq         Loss Factor Factor         Level           MHz         dB         dB/m         dB         dBuV           1677.621         5.25         26.58         40.82         36.95           4405.090         7.46         33.44         43.20         38.50           4960.000         8.05         34.15         43.76         38.27           6432.732         11.41         35.54         42.46         37.98           7440.000         10.02         36.25         41.69         37.67	Freq         Loss         Factor         Factor         Level         Level           MHz         dB         dB/m         dB         dBuV         dBuV/m           1677.621         5.25         26.58         40.82         36.95         27.96           4405.090         7.46         33.44         43.20         38.50         36.20           4960.000         8.05         34.15         43.76         38.27         36.71           6432.732         11.41         35.54         42.46         37.98         42.47           7440.000         10.02         36.25         41.69         37.67         42.25	Freq         Loss         Factor         Factor         Level         Level         Line           MHz         dB         dB/m         dB         dBuV         dBuV/m         dBuV/m           1677.621         5.25         26.58         40.82         36.95         27.96         74.00           4405.090         7.46         33.44         43.20         38.50         36.20         74.00           4960.000         8.05         34.15         43.76         38.27         36.71         74.00           6432.732         11.41         35.54         42.46         37.98         42.47         74.00           7440.000         10.02         36.25         41.69         37.67         42.25         74.00	Cable Loss Factor Factor         Read Level Level Line Limit         Limit Over Limit           MHz         dB         dB/m         dB         dBuV         dBuV/m         dBuV/m         dBuV/m         dB           1677.621         5.25         26.58         40.82         36.95         27.96         74.00         -46.04           4405.090         7.46         33.44         43.20         38.50         36.20         74.00         -37.80           4960.000         8.05         34.15         43.76         38.27         36.71         74.00         -37.29           6432.732         11.41         35.54         42.46         37.98         42.47         74.00         -31.53           7440.000         10.02         36.25         41.69         37.67         42.25         74.00         -31.75           9920.000         10.90         37.85         37.93         31.80         42.62         74.00         -31.38



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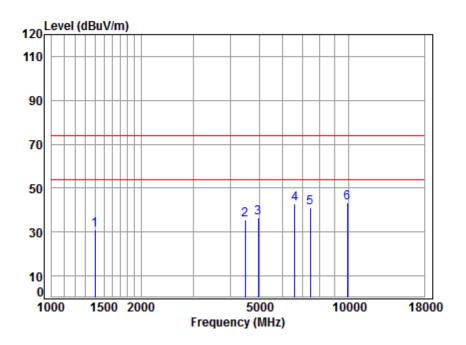
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Report No.: SZEM190101054002

Page: 51 of 150

Mode :c; Polarization: Vertical; Channel: High



: chamber Site Condition: 3m VERTICAL

: 10540CR/10541CR

Mode : 2480 TX RSE

Note : BT

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1398.336	5.15	25.42	40.64	40.88	30.81	74.00	-43.19	peak
2	4482.150	7.54	33.57	43.29	37.97	35.79	74.00	-38.21	peak
3	4960.000	8.05	34.15	43.76	38.27	36.71	74.00	-37.29	peak
4	6602.265	11.24	35.66	42.32	38.46	43.04	74.00	-30.96	peak
5	7440.000	10.02	36.25	41.69	36.55	41.13	74.00	-32.87	peak
6	9920.000	10.90	37.85	37.93	32.60	43.42	74.00	-30.58	peak



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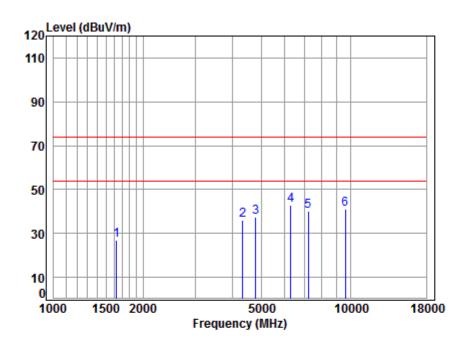


Report No.: SZEM190101054002

Page: 52 of 150

#### For Right earbuds:

Mode: g; Polarization: Horizontal; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL : 10540CR/10541CR Mode : 2402 TX RSE

Note : BT

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1629.825	5.31	26.38	40.79	36.13	27.03	74.00	-46.97	peak
2	4341.886	7.38	33.33	43.14	38.48	36.05	74.00	-37.95	peak
3	4804.000	7.89	33.97	43.61	38.96	37.21	74.00	-36.79	peak
4	6303.890	11.17	35.41	42.57	38.66	42.67	74.00	-31.33	peak
5	7206.000	10.08	36.07	41.86	35.66	39.95	74.00	-34.05	peak
6	9608.000	10.75	37.67	38.43	31.13	41.12	74.00	-32.88	neak



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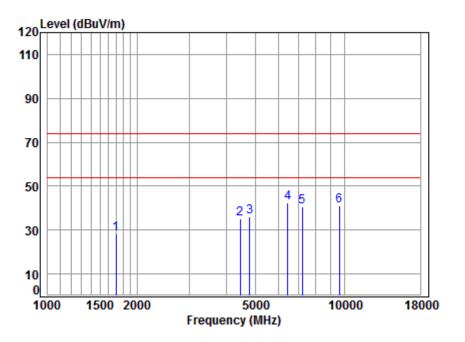
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Report No.: SZEM190101054002

Page: 53 of 150

Mode:g; Polarization: Vertical; Channel: Low



: chamber Site

Condition: 3m VERTICAL

: 10540CR/10541CR

Mode : 2402 TX RSE

Note : BT

	Cable	Ant	Preamp	Read		Limit	0ver	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1702.042	5.23	26.68	40.83	37.28	28.36	74.00	-45.64	peak
4456.315	7.51	33.53	43.26	37.49	35.27	74.00	-38.73	peak
4804.000	7.89	33.97	43.61	37.72	35.97	74.00	-38.03	peak
6451.353	11.45	35.55	42.44	37.69	42.25	74.00	-31.75	peak
7206.000	10.08	36.07	41.86	36.42	40.71	74.00	-33.29	peak
9608.000	10.75	37.67	38.43	31.17	41.16	74.00	-32.84	peak
	MHz 1702.042 4456.315 4804.000 6451.353 7206.000	Freq Loss  MHz dB  1702.042 5.23 4456.315 7.51 4804.000 7.89 6451.353 11.45 7206.000 10.08	Freq         Loss         Factor           MHz         dB         dB/m           1702.042         5.23         26.68           4456.315         7.51         33.53           4804.000         7.89         33.97           6451.353         11.45         35.55           7206.000         10.08         36.07	Freq         Loss         Factor         Factor           MHz         dB         dB/m         dB           1702.042         5.23         26.68         40.83           4456.315         7.51         33.53         43.26           4804.000         7.89         33.97         43.61           6451.353         11.45         35.55         42.44           7206.000         10.08         36.07         41.86	Freq         Loss         Factor         Factor         Level           MHz         dB         dB/m         dB         dBuV           1702.042         5.23         26.68         40.83         37.28           4456.315         7.51         33.53         43.26         37.49           4804.000         7.89         33.97         43.61         37.72           6451.353         11.45         35.55         42.44         37.69           7206.000         10.08         36.07         41.86         36.42	Freq         Loss         Factor         Factor         Level         Level           MHz         dB         dB/m         dB         dBuV         dBuV/m           1702.042         5.23         26.68         40.83         37.28         28.36           4456.315         7.51         33.53         43.26         37.49         35.27           4804.000         7.89         33.97         43.61         37.72         35.97           6451.353         11.45         35.55         42.44         37.69         42.25           7206.000         10.08         36.07         41.86         36.42         40.71	Freq         Loss         Factor         Factor         Level         Level         Line           MHz         dB         dB/m         dB         dBuV         dBuV/m         dBuV/m           1702.042         5.23         26.68         40.83         37.28         28.36         74.00           4456.315         7.51         33.53         43.26         37.49         35.27         74.00           4804.000         7.89         33.97         43.61         37.72         35.97         74.00           6451.353         11.45         35.55         42.44         37.69         42.25         74.00           7206.000         10.08         36.07         41.86         36.42         40.71         74.00	Freq         Cable Loss Factor Factor         Ant Preamp Level Level Level Limit         Level Level Level Limit         Over Limit           MHz         dB         dB/m         dB uV         dBuV dBuV/m         dBuV/m         dBuV/m         dB           1702.042         5.23         26.68         40.83         37.28         28.36         74.00         -45.64           4456.315         7.51         33.53         43.26         37.49         35.27         74.00         -38.73           4804.000         7.89         33.97         43.61         37.72         35.97         74.00         -38.03           6451.353         11.45         35.55         42.44         37.69         42.25         74.00         -31.75           7206.000         10.08         36.07         41.86         36.42         40.71         74.00         -33.29           9608.000         10.75         37.67         38.43         31.17         41.16         74.00         -32.84



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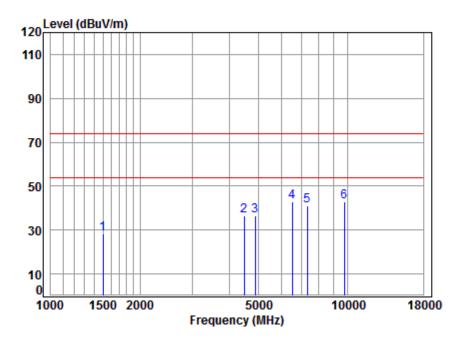
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Report No.: SZEM190101054002

Page: 54 of 150

Mode: g; Polarization: Horizontal; Channel: middle



Site : chamber

Condition: 3m HORIZONTAL : 10540CR/10541CR

Mode : 2441 TX RSE

Note : BT

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1503.119	5.48	25.81	40.71	37.63	28.21	74.00	-45.79	peak
2	4495.125	7.55	33.59	43.30	38.62	36.46	74.00	-37.54	peak
3	4882.000	7.97	34.06	43.69	38.25	36.59	74.00	-37.41	peak
4	6507.536	11.52	35.60	42.40	38.29	43.01	74.00	-30.99	peak
5	7323.000	10.05	36.16	41.77	36.45	40.89	74.00	-33.11	peak
6	9764.000	10.82	37.76	38.17	32.43	42.84	74.00	-31.16	peak



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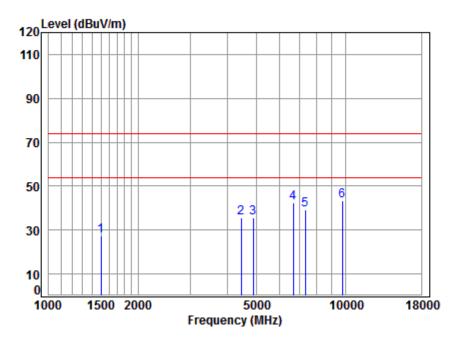
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Report No.: SZEM190101054002

Page: 55 of 150

Mode:g; Polarization: Vertical; Channel: middle



: chamber Site

Condition: 3m VERTICAL

: 10540CR/10541CR

Mode : 2441 TX RSE

Note : BT

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1503.119	5.48	25.81	40.71	37.01	27.59	74.00	-46.41	peak
2	4456.315	7.51	33.53	43.26	37.87	35.65	74.00	-38.35	peak
3	4882.000	7.97	34.06	43.69	37.04	35.38	74.00	-38.62	peak
4	6679.040	11.02	35.71	42.26	37.84	42.31	74.00	-31.69	peak
5	7323.000	10.05	36.16	41.77	34.86	39.30	74.00	-34.70	peak
6	9764.000	10.82	37.76	38.17	32.73	43.14	74.00	-30.86	peak



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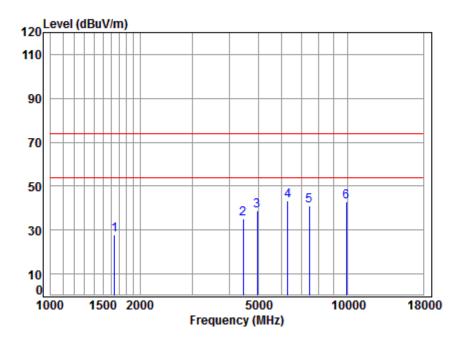
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Report No.: SZEM190101054002

Page: 56 of 150

Mode: g; Polarization: Horizontal; Channel: High



Site : chamber

Condition: 3m HORIZONTAL Job No : 10540CR/10541CR

Mode : 2480 TX RSE

Note : BT

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1644.019	5.30	26.44	40.80	36.82	27.76	74.00	-46.24	peak
2	4456.315	7.51	33.53	43.26	37.56	35.34	74.00	-38.66	peak
3	4960.000	8.05	34.15	43.76	40.14	38.58	74.00	-35.42	peak
4	6285.695	11.13	35.39	42.58	39.24	43.18	74.00	-30.82	peak
5	7440.000	10.02	36.25	41.69	36.70	41.28	74.00	-32.72	peak
6	9920.000	10.90	37.85	37.93	31.87	42.69	74.00	-31.31	peak



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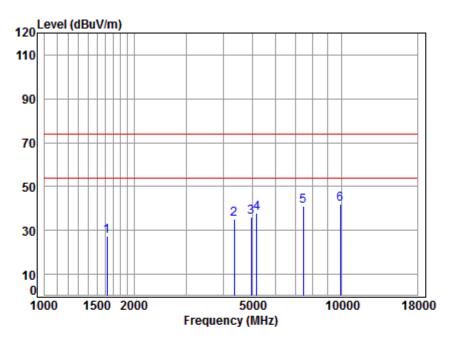
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Report No.: SZEM190101054002

Page: 57 of 150

Mode:g; Polarization: Vertical; Channel: High



Site : chamber

Condition: 3m VERTICAL

Job No : 10540CR/10541CR

Mode : 2480 TX RSE

Note : BT

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1620.431	5.32	26.34	40.78	36.46	27.34	74.00	-46.66	peak
2	4354.454	7.40	33.35	43.15	37.67	35.27	74.00	-38.73	peak
3	4960.000	8.05	34.15	43.76	37.83	36.27	74.00	-37.73	peak
4	5179.049	8.37	34.35	43.61	38.72	37.83	74.00	-36.17	peak
5	7440.000	10.02	36.25	41.69	36.35	40.93	74.00	-33.07	peak
6	9920.000	10.90	37.85	37.93	31.37	42.19	74.00	-31.81	peak



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Page: 58 of 150

#### **Photographs** 8

#### 8.1 Test Setup

Please refer to setup photos.

#### 8.2 EUT Constructional Details (EUT Photos)

Please refer to external and internal photos for details.



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Page: 59 of 150

# **Appendix**

#### 9.1 Appendix 15.247-Left earbuds

#### 1.20 dB Bandwidth

Test Mode	Test Channel	EBW[MHz]	Limit[MHz]	Verdict
DH5	2402	1.050		PASS
DH5	2441	1.050		PASS
DH5	2480	1.050		PASS
2DH5	2402	1.188		PASS
2DH5	2441	1.188		PASS
2DH5	2480	1.186		PASS
3DH5	2402	1.206		PASS
3DH5	2441	1.206		PASS
3DH5	2480	1.208		PASS



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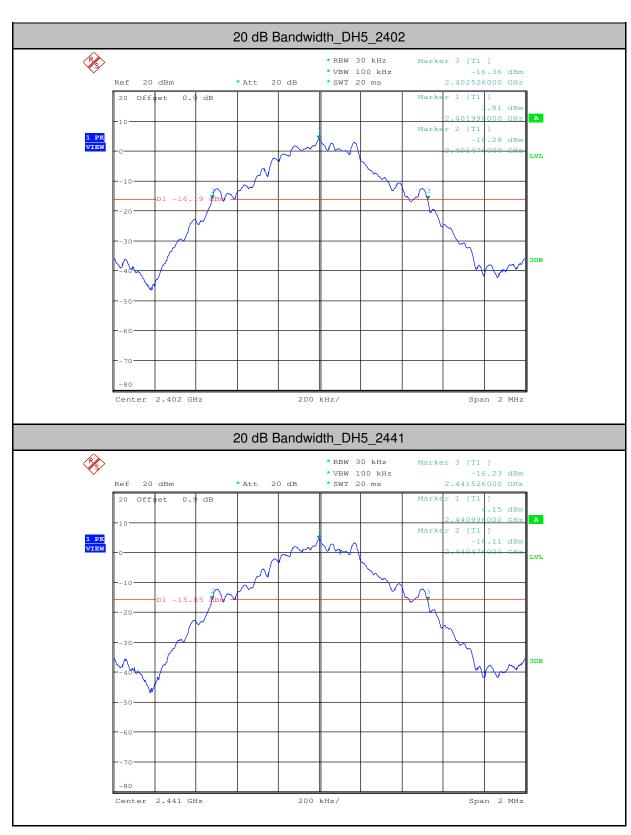
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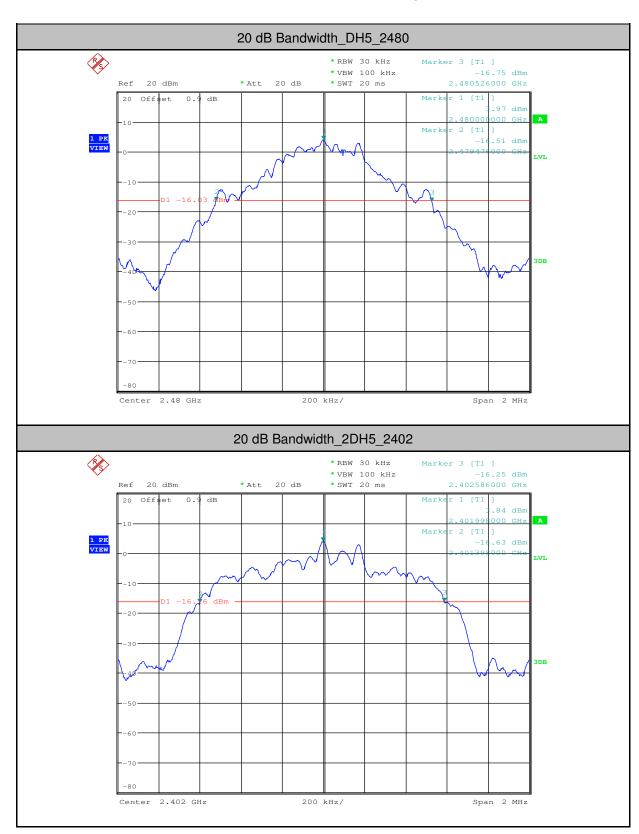
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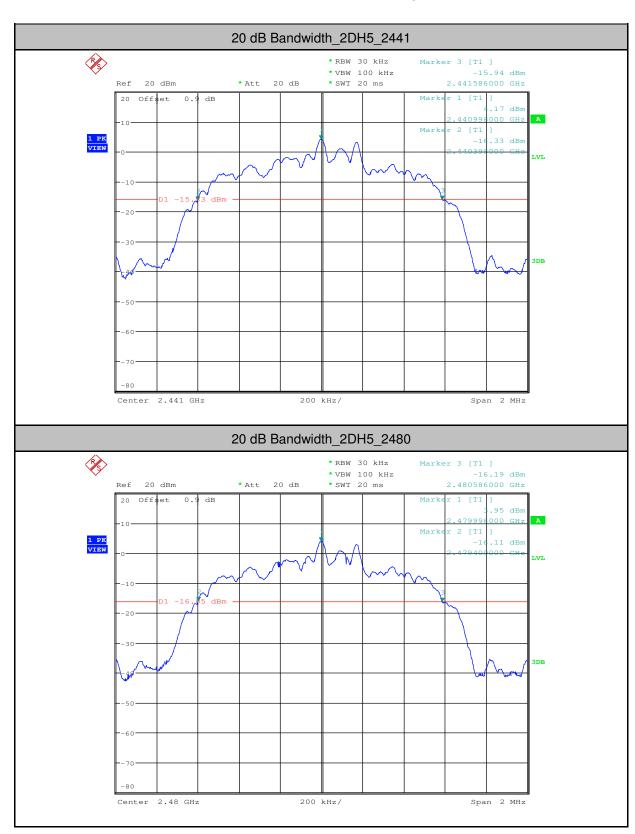
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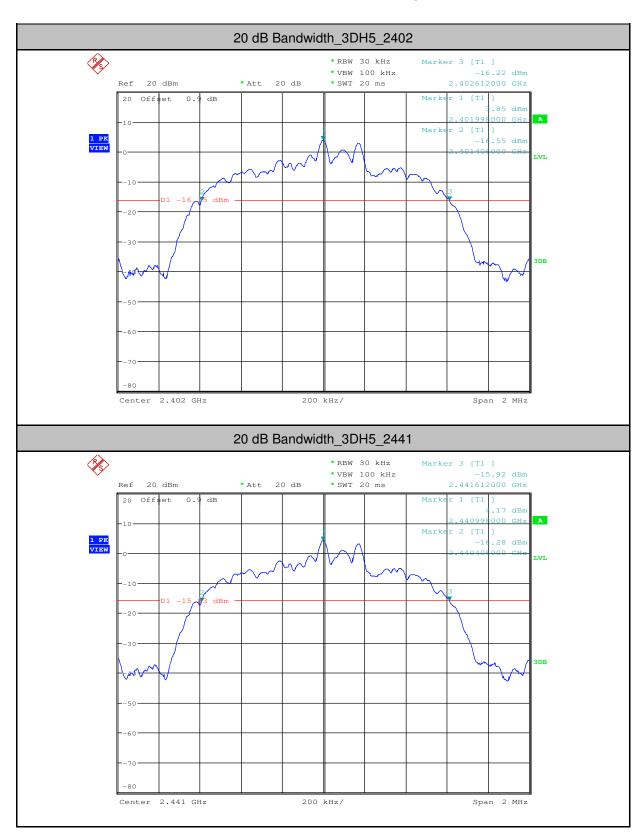
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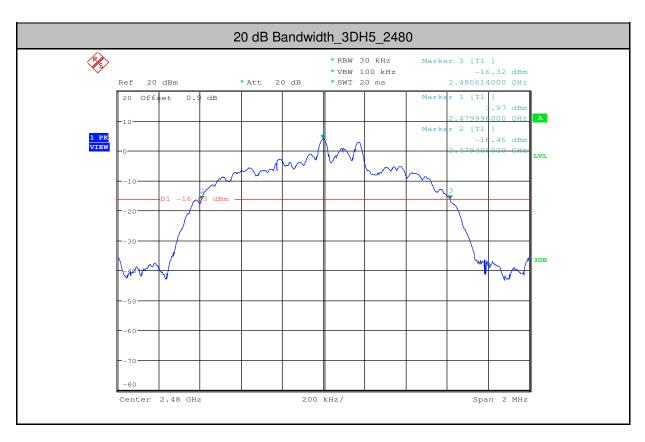
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Report No.: SZEM190101054002

Page: 64 of 150



#### 2.Conducted Peak Output Power

Test Mode	Test Channel	Power[dBm]	Limit[dBm]	Verdict
DH5	2402	6.17	<=20.97	PASS
DH5	2441	6.46	<=20.97	PASS
DH5	2480	6.11	<=20.97	PASS
2DH5	2402	6.20	<=20.97	PASS
2DH5	2441	6.46	<=20.97	PASS
2DH5	2480	6.12	<=20.97	PASS
3DH5	2402	6.19	<=20.97	PASS
3DH5	2441	6.43	<=20.97	PASS
3DH5	2480	6.13	<=20.97	PASS



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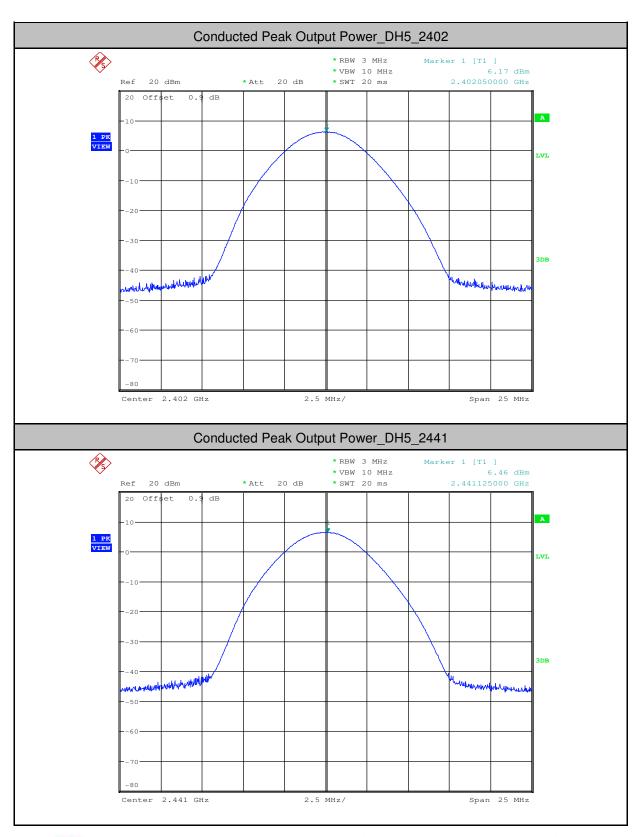
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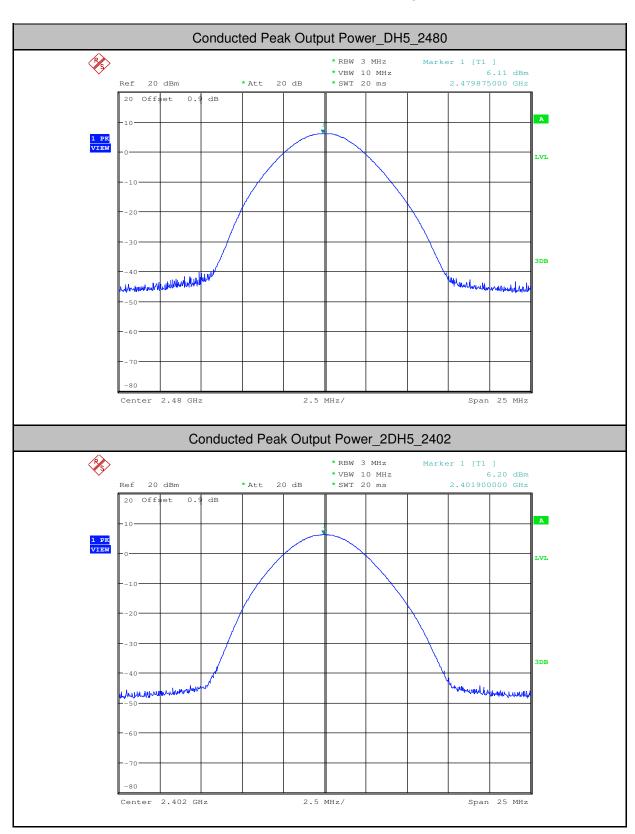
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Report No.: SZEM190101054002

Page: 66 of 150





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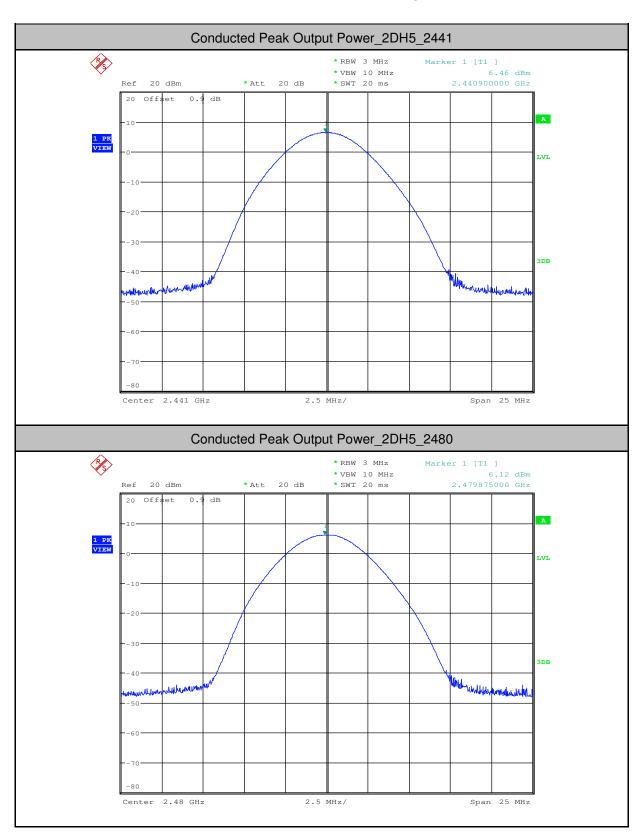
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Report No.: SZEM190101054002

Page: 67 of 150





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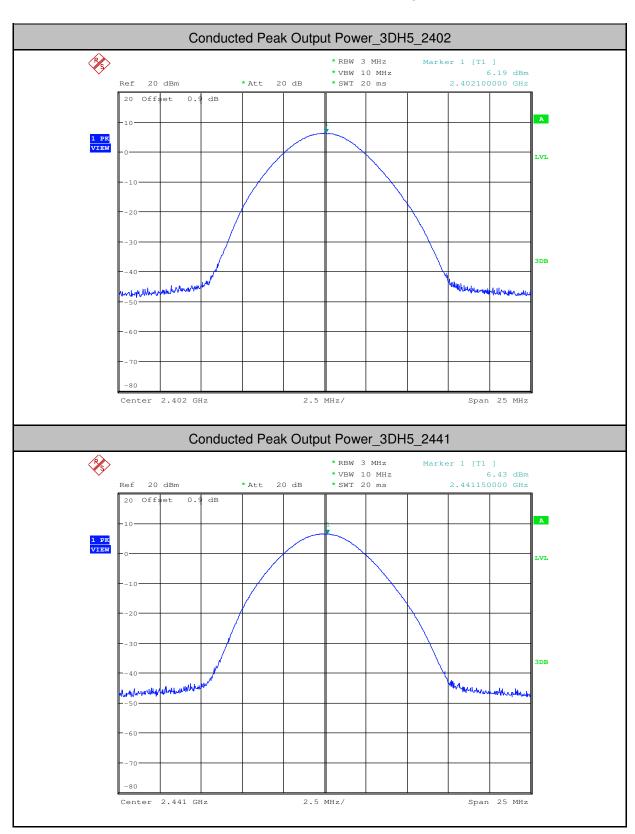
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Report No.: SZEM190101054002

Page: 68 of 150





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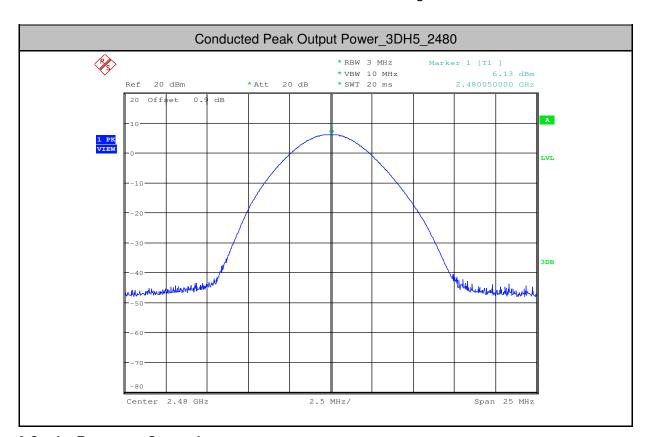
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Report No.: SZEM190101054002

Page: 69 of 150



#### 3. Carrier Frequency Separation

Test Mode	Test Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	2441	1.002	>=0.70	PASS
2DH5	2441	1.017	>=0.79	PASS
3DH5	2441	1.002	>=0.81	PASS



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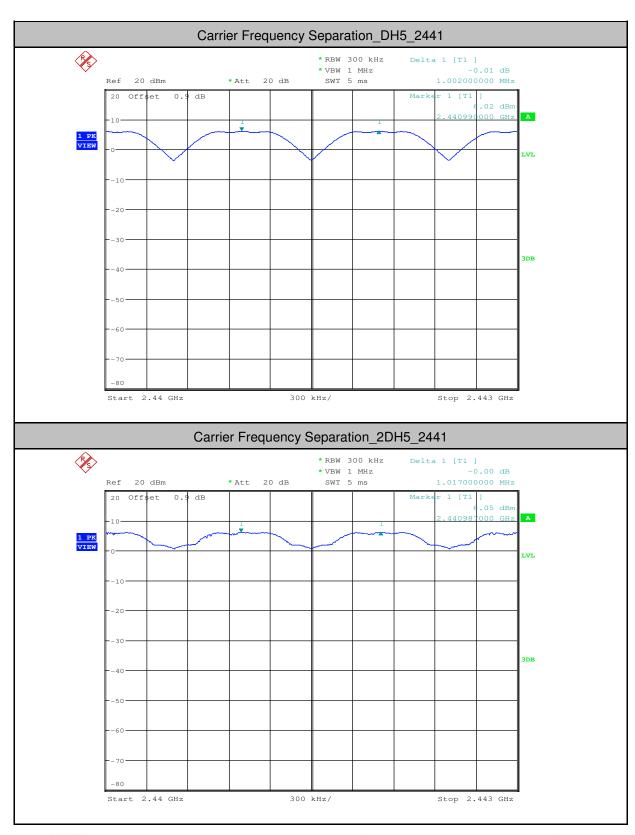
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Report No.: SZEM190101054002

Page: 70 of 150





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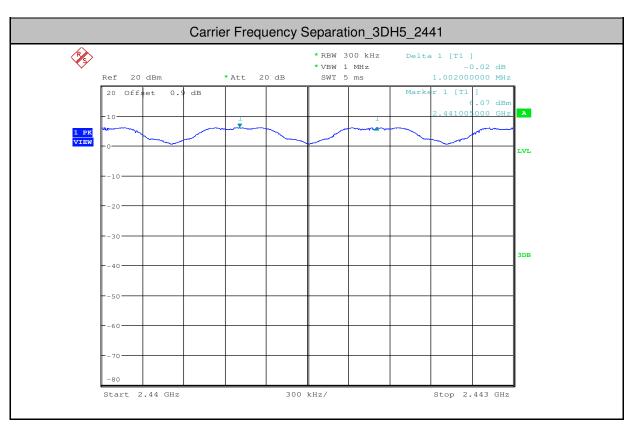
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Report No.: SZEM190101054002

Page: 71 of 150



#### 4.Dwell Time

Test Mode	Test Channel	Burst Width[ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit[s]	Verdict
DH1	2402	0.38	160	0.061	<0.4	PASS
DH3	2402	1.64	130	0.213	<0.4	PASS
DH5	2402	2.88	90	0.259	<0.4	PASS
2DH1	2402	0.39	180	0.07	<0.4	PASS
2DH3	2402	1.65	100	0.165	<0.4	PASS
2DH5	2402	2.89	70	0.202	<0.4	PASS
3DH1	2402	0.39	150	0.059	<0.4	PASS
3DH3	2402	1.65	80	0.132	<0.4	PASS
3DH5	2402	2.89	70	0.202	<0.4	PASS



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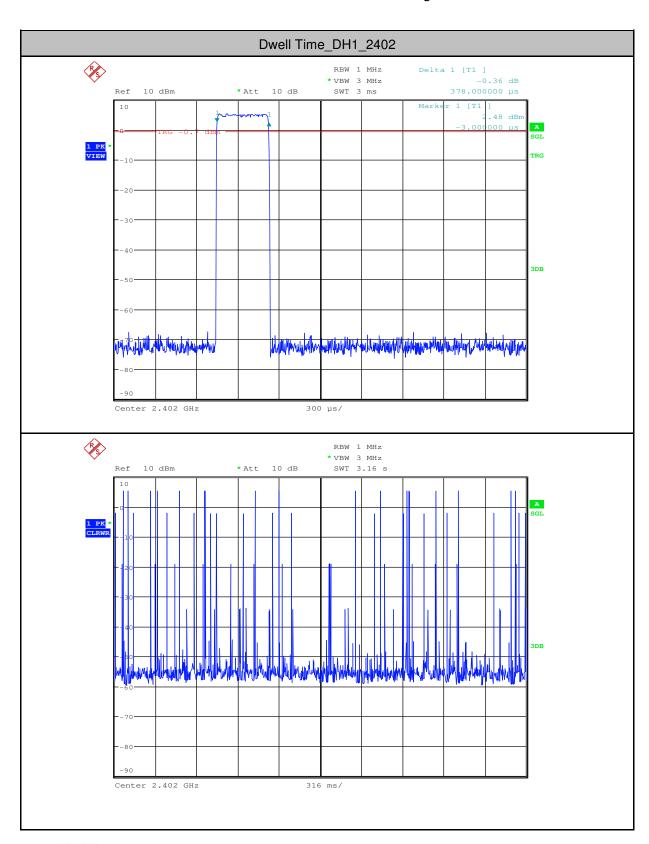
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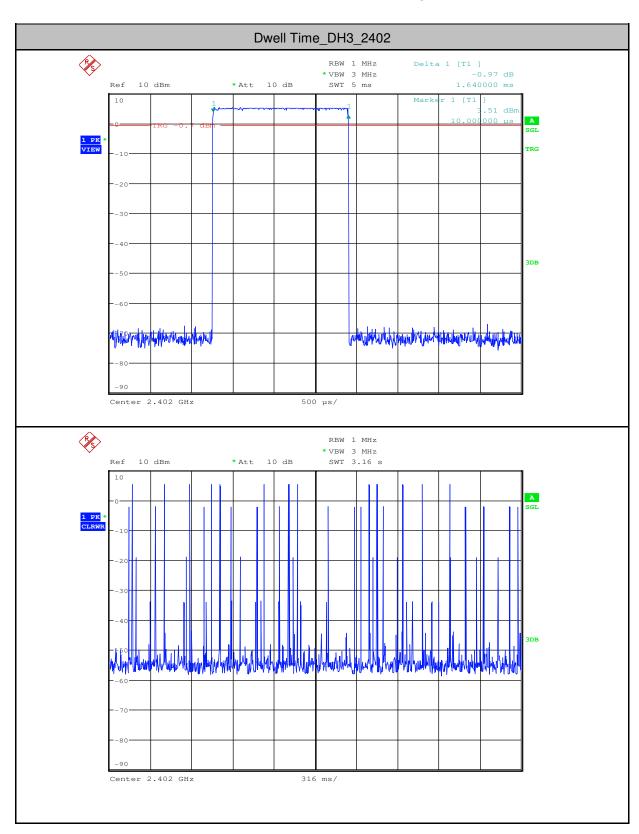
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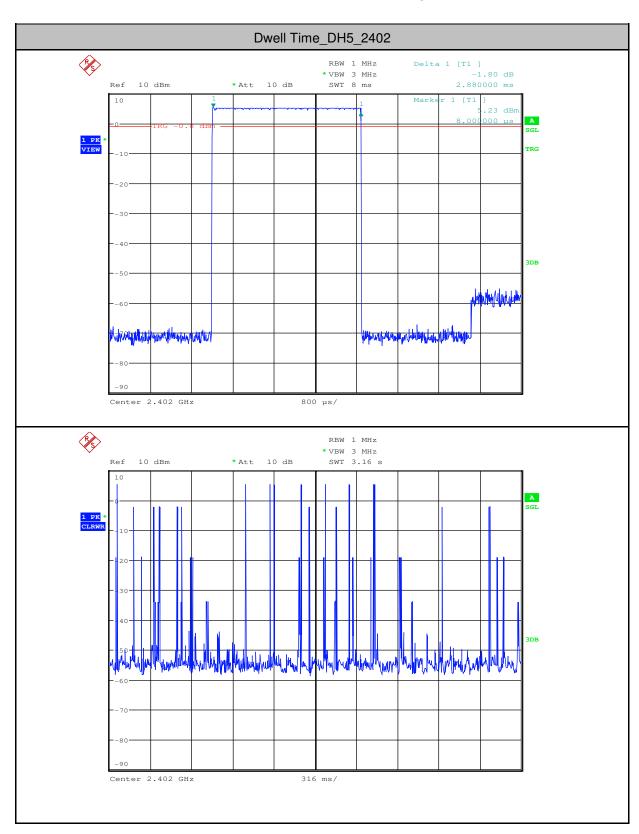
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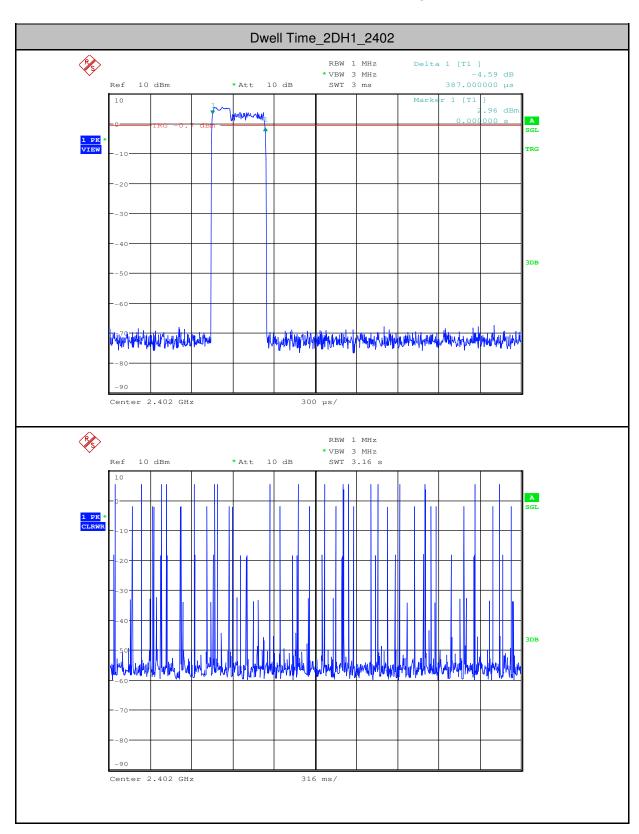
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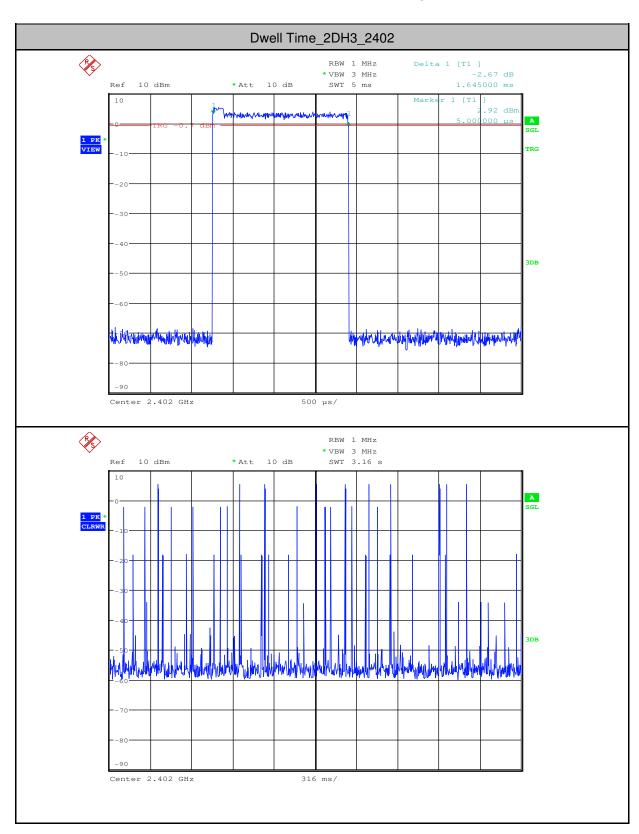
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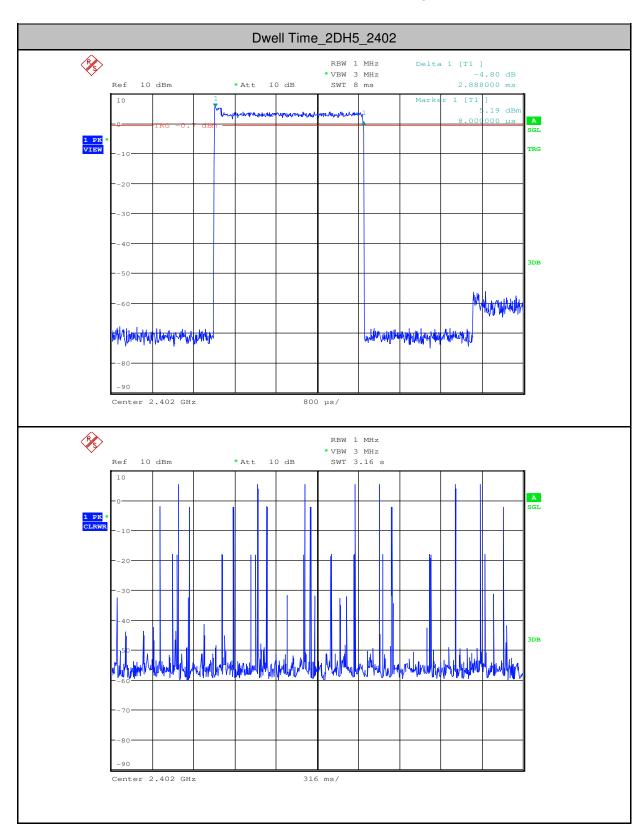
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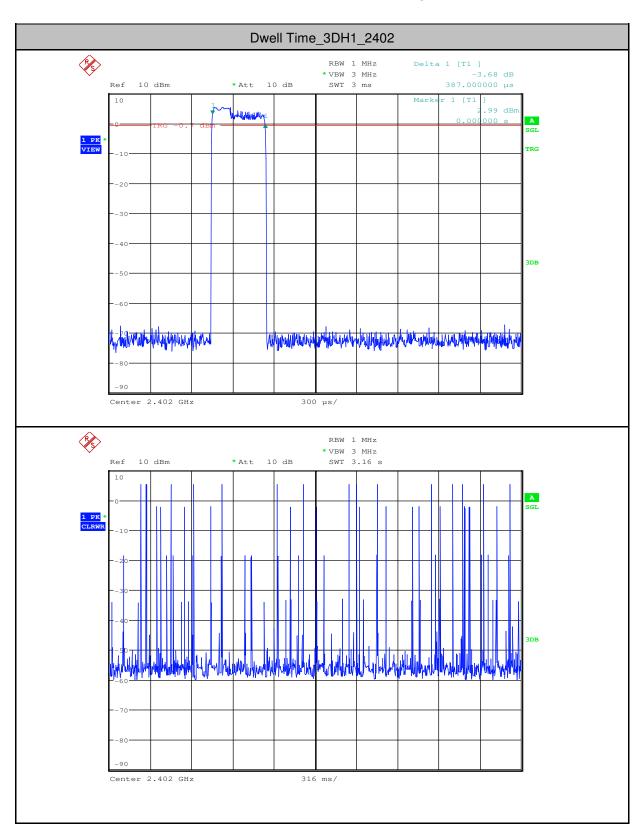
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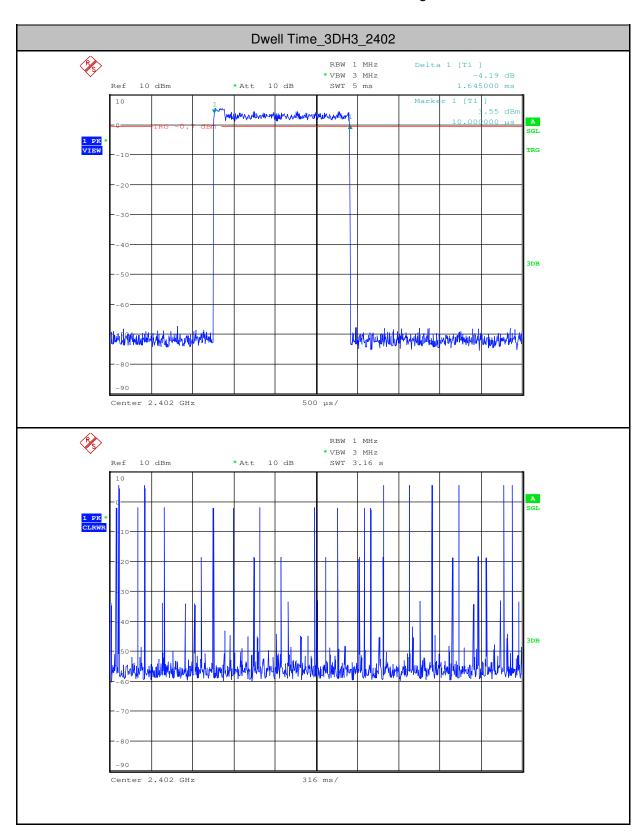
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Report No.: SZEM190101054002

Page: 79 of 150





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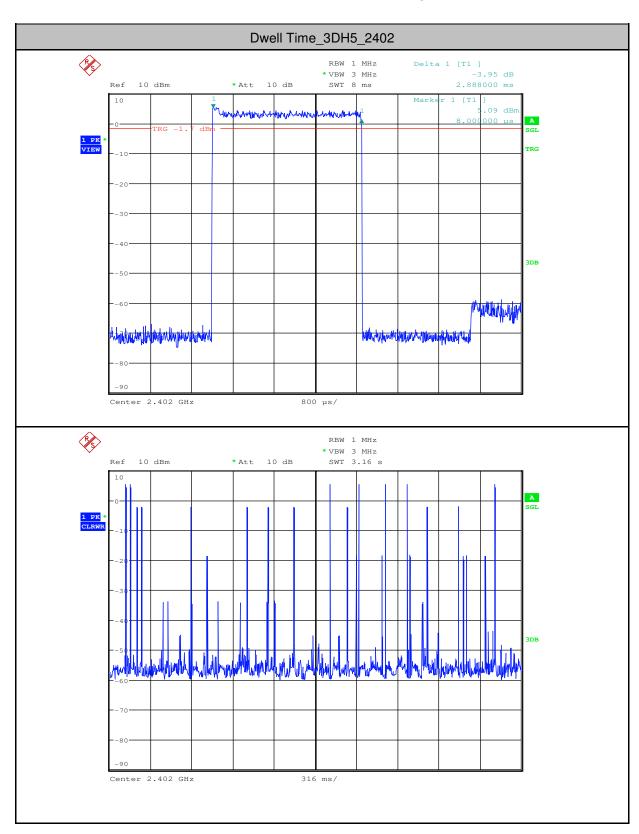
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Report No.: SZEM190101054002

Page: 80 of 150





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Report No.: SZEM190101054002

Page: 81 of 150

#### 5. Hopping Channel Number

Test Mode	Test Channel	Number of Hopping Channel[N]	Limit[N]	Verdict
DH5	2402	79	>=15	PASS
2DH5	2402	79	>=15	PASS
3DH5	2402	79	>=15	PASS



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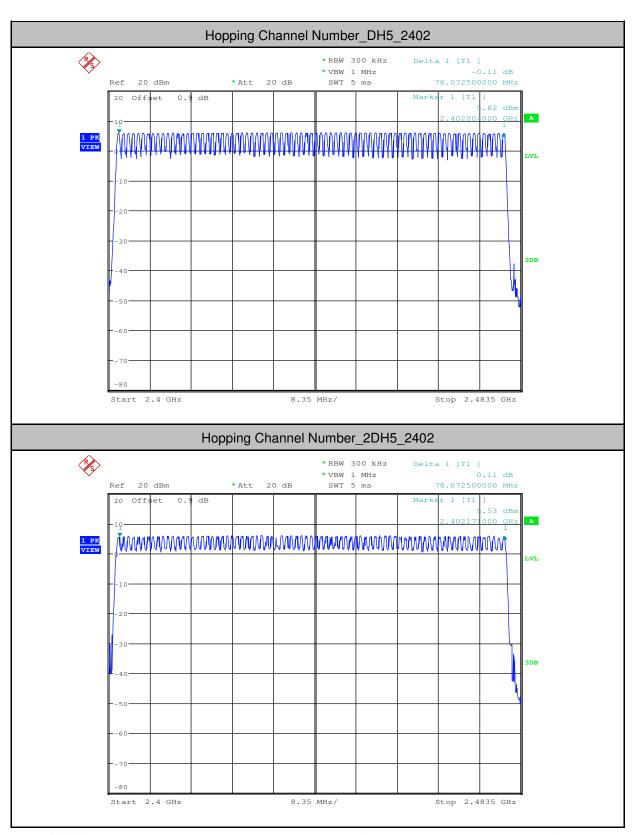
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Page: 82 of 150





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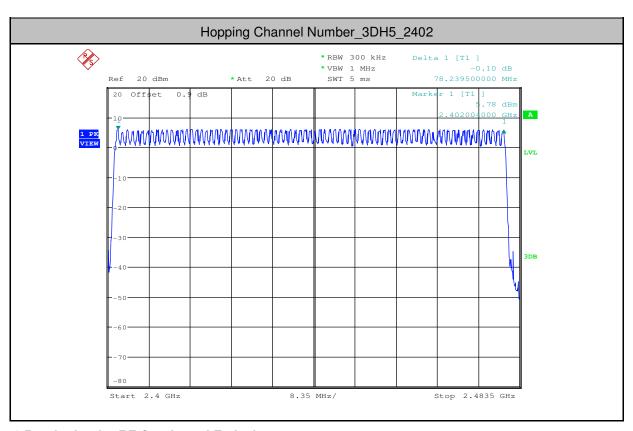
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Report No.: SZEM190101054002

Page: 83 of 150



#### 6.Band-edge for RF Conducted Emissions

Test Mode	Test Channel	Hopping	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit[dBm]	Verdict
DH5	2402	On	5.110	-53.756	<-14.89	PASS
DH5	2402	Off	5.150	-55.809	<-14.85	PASS
DH5	2480	On	4.780	-54.451	<-15.22	PASS
DH5	2480	Off	5.000	-54.362	<-15	PASS
2DH5	2402	On	5.190	-55.509	<-14.81	PASS
2DH5	2402	Off	4.690	-56.595	<-15.31	PASS
2DH5	2480	On	4.960	-55.488	<-15.04	PASS
2DH5	2480	Off	4.810	-54.954	<-15.19	PASS
3DH5	2402	On	5.190	-55.488	<-14.81	PASS
3DH5	2402	Off	4.650	-55.878	<-15.35	PASS
3DH5	2480	On	4.460	-54.457	<-15.54	PASS
3DH5	2480	Off	5.270	-54.631	<-14.73	PASS



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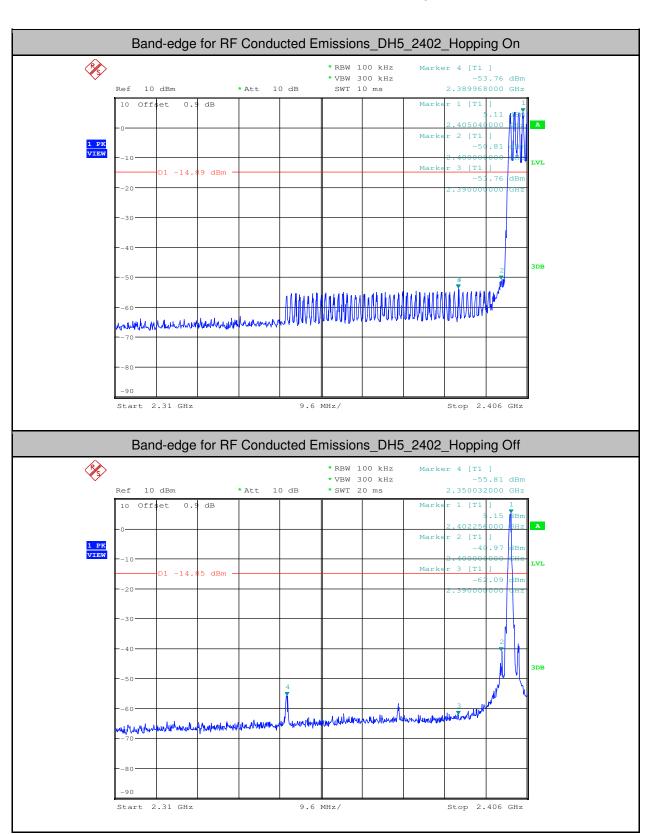
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Page: 84 of 150





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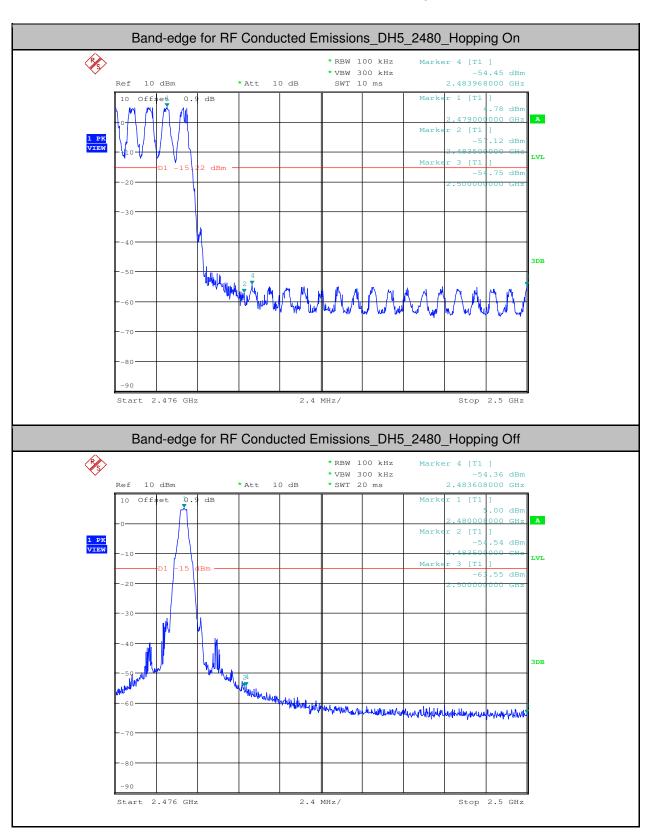
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Page: 85 of 150





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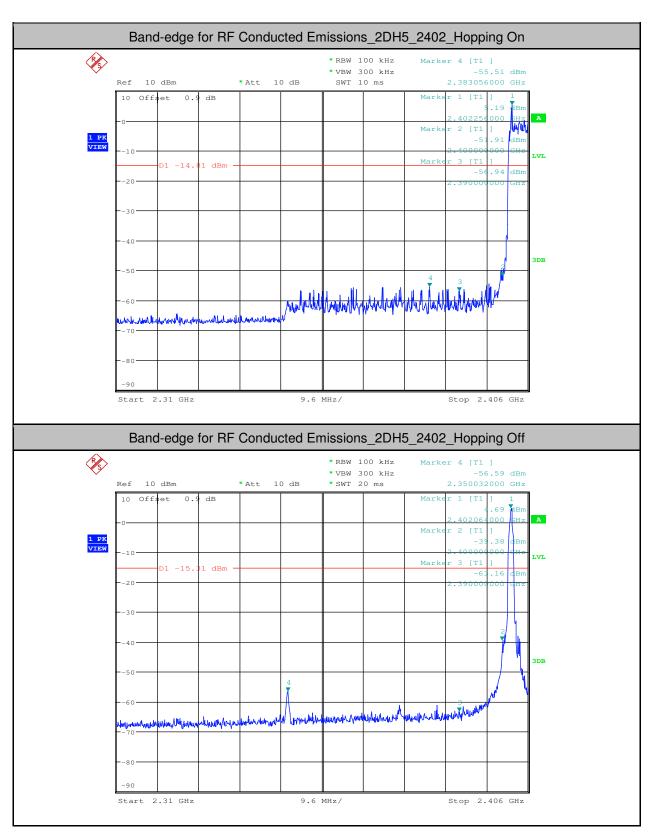
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Page: 86 of 150





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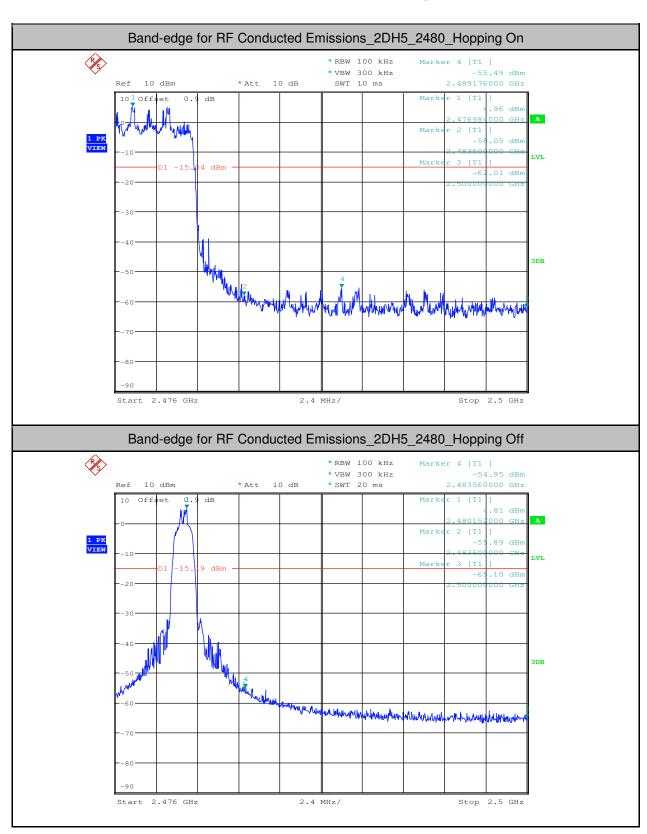
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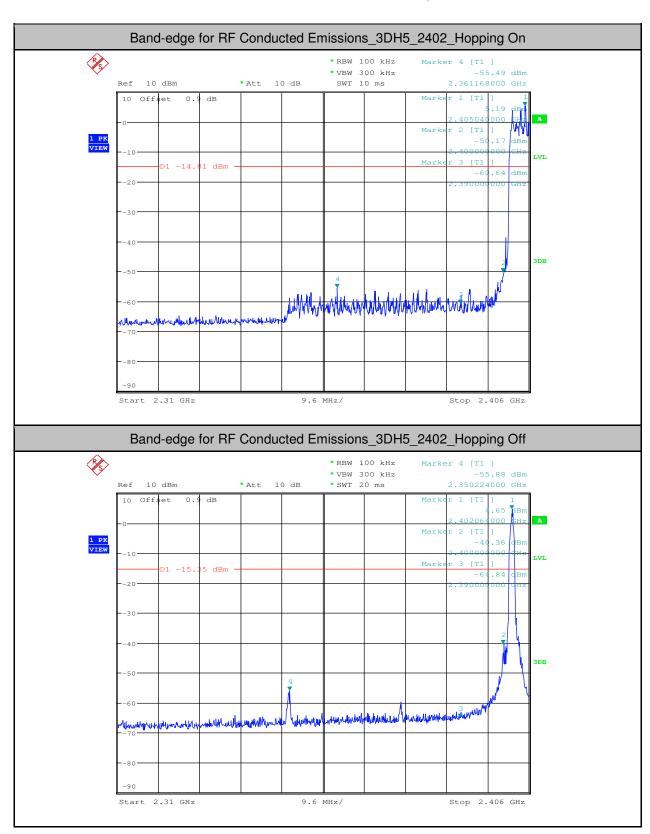
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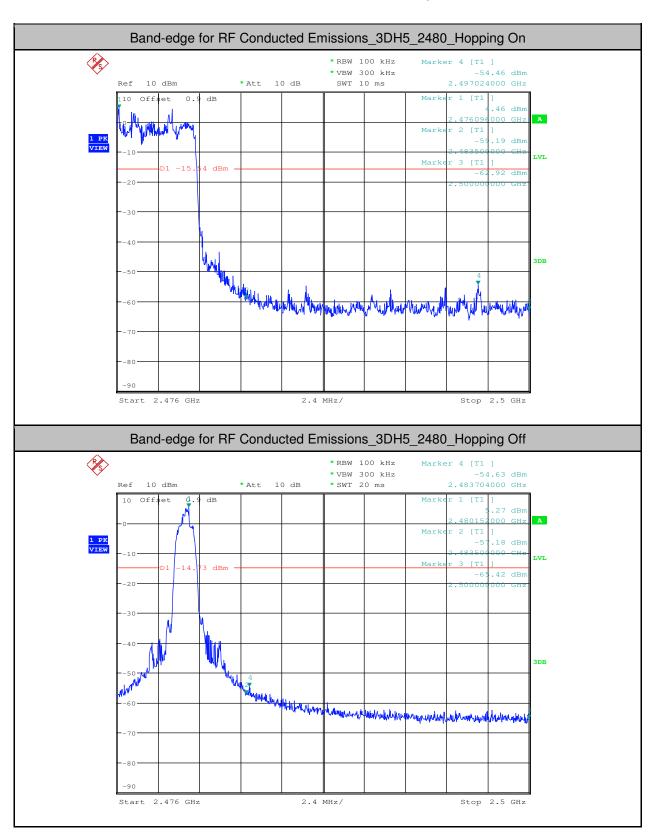
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Report No.: SZEM190101054002

Page: 90 of 150

#### 7.RF Conducted Spurious Emissions

Test Mode	Test Channel	StartFre [MHz]	StopFre [MHz]	RBW [kHz]	VBW [kHz]	Pref[dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
DH5	2402	30	10000	1000	3000	5.17	-40.520	<-14.83	PASS
DH5	2402	10000	25000	1000	3000	5.17	-61.930	<-14.83	PASS
DH5	2441	30	10000	1000	3000	5.13	-40.680	<-14.87	PASS
DH5	2441	10000	25000	1000	3000	5.13	-62.650	<-14.87	PASS
DH5	2480	30	10000	1000	3000	4.84	-40.730	<-15.16	PASS
DH5	2480	10000	25000	1000	3000	4.84	-62.520	<-15.16	PASS
2DH5	2402	30	10000	1000	3000	4.99	-40.910	<-15.01	PASS
2DH5	2402	10000	25000	1000	3000	4.99	-62.690	<-15.01	PASS
2DH5	2441	30	10000	1000	3000	5	-42.680	<-15	PASS
2DH5	2441	10000	25000	1000	3000	5	-62.470	<-15	PASS
2DH5	2480	30	10000	1000	3000	5.15	-40.960	<-14.85	PASS
2DH5	2480	10000	25000	1000	3000	5.15	-62.480	<-14.85	PASS
3DH5	2402	30	10000	1000	3000	3.9	-44.200	<-16.1	PASS
3DH5	2402	10000	25000	1000	3000	3.9	-62.560	<-16.1	PASS
3DH5	2441	30	10000	1000	3000	5.11	-42.430	<-14.89	PASS
3DH5	2441	10000	25000	1000	3000	5.11	-60.140	<-14.89	PASS
3DH5	2480	30	10000	1000	3000	4.63	-41.560	<-15.37	PASS
3DH5	2480	10000	25000	1000	3000	4.63	-62.440	<-15.37	PASS



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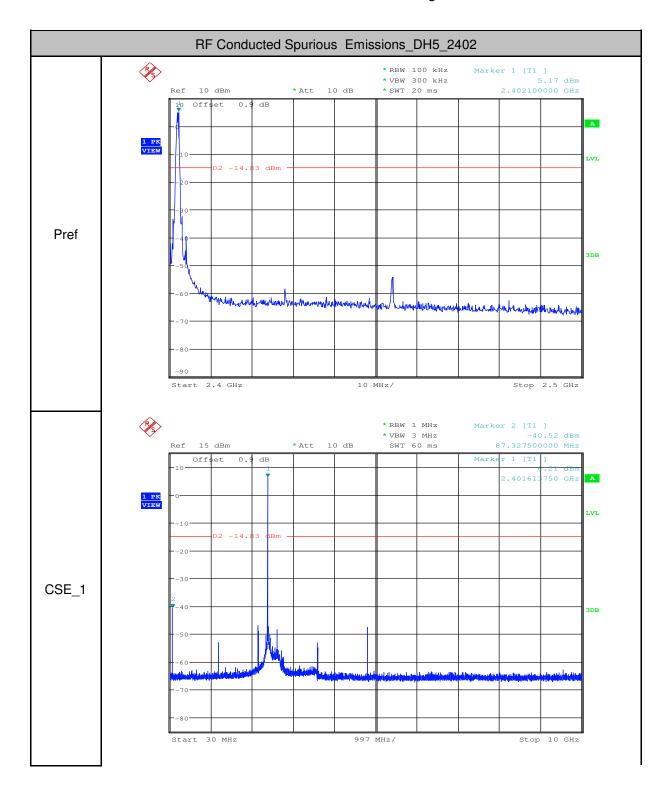
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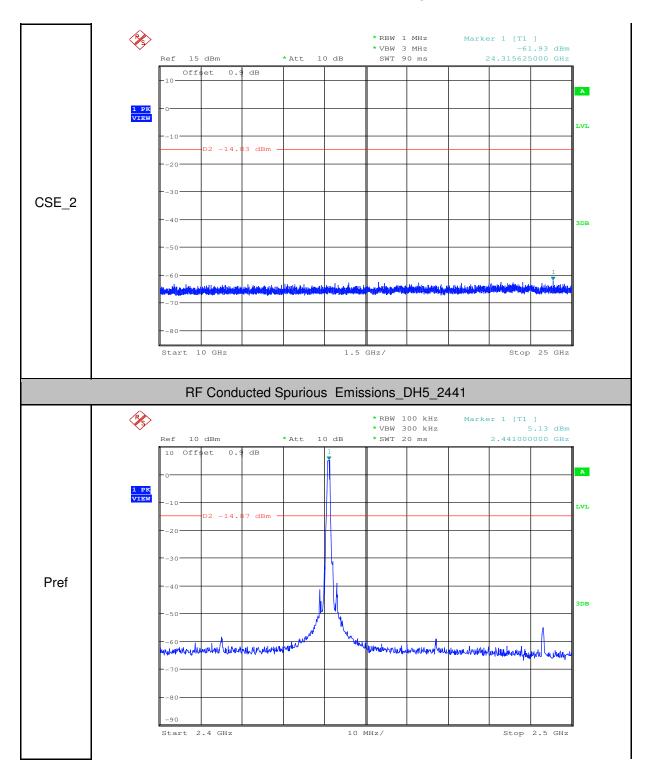
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Report No.: SZEM190101054002

Page: 92 of 150





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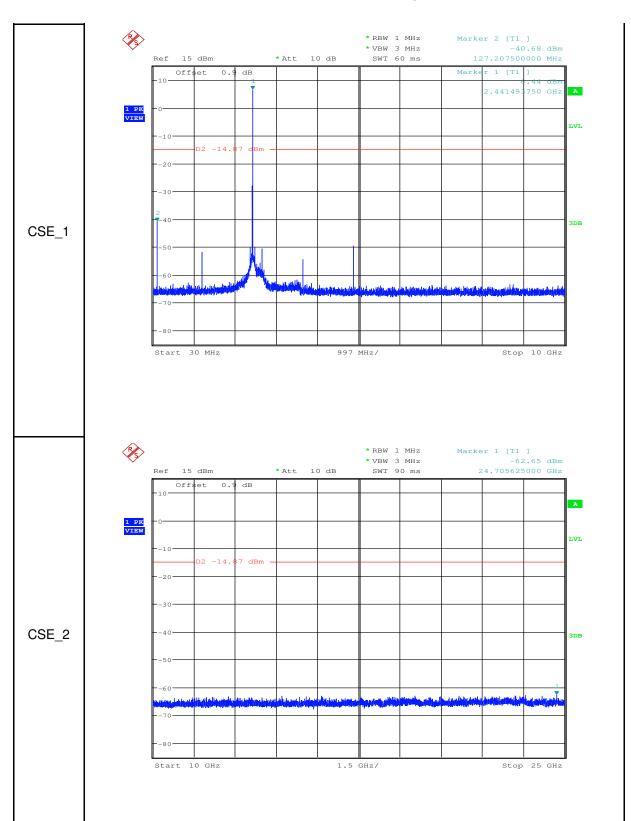
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Page: 93 of 150





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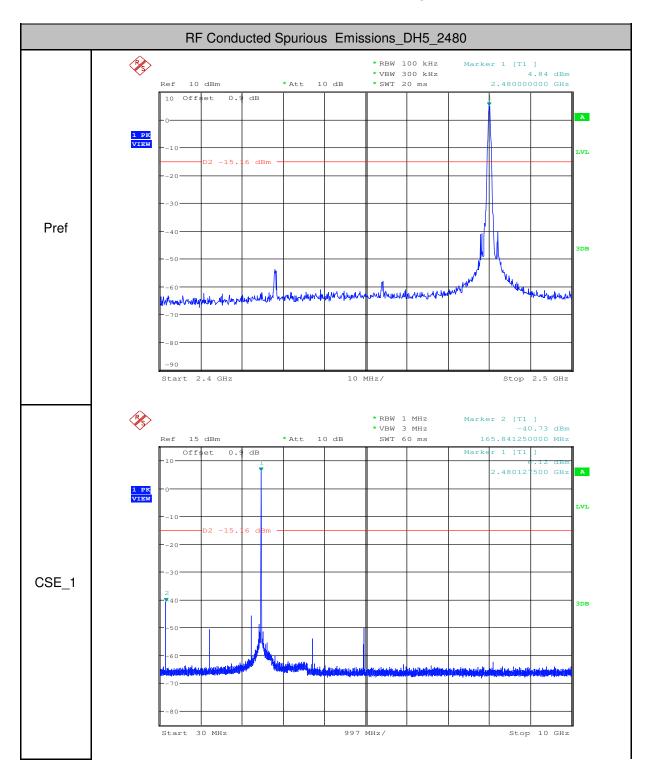
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Page: 94 of 150





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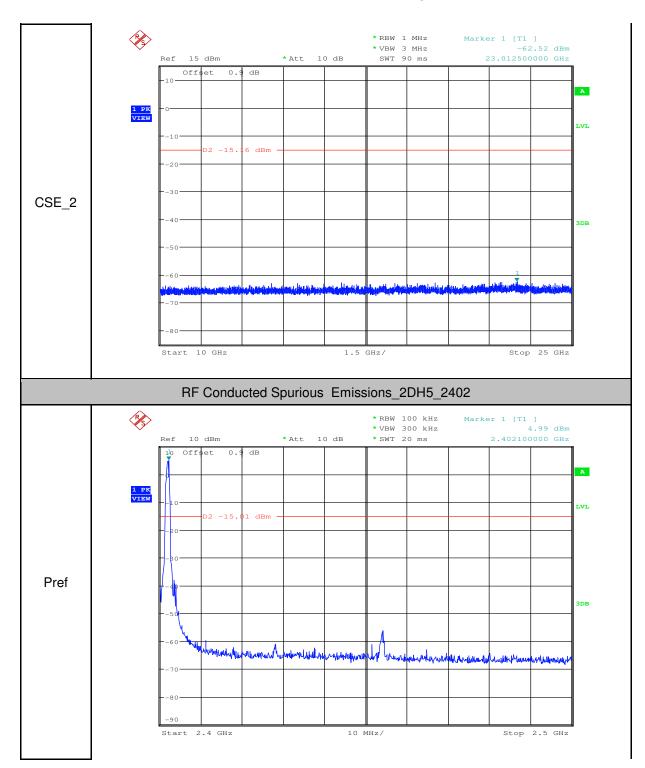
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Page: 95 of 150





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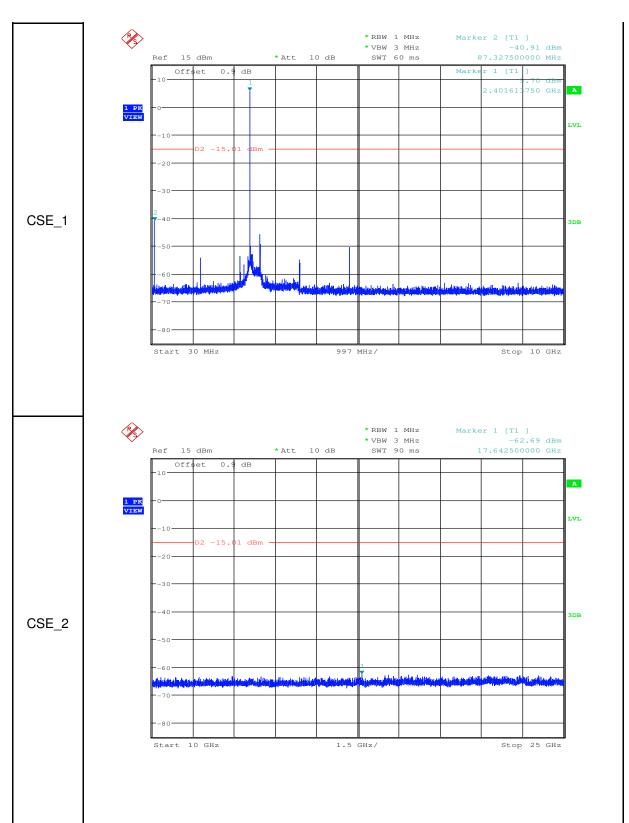
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Report No.: SZEM190101054002

Page: 96 of 150





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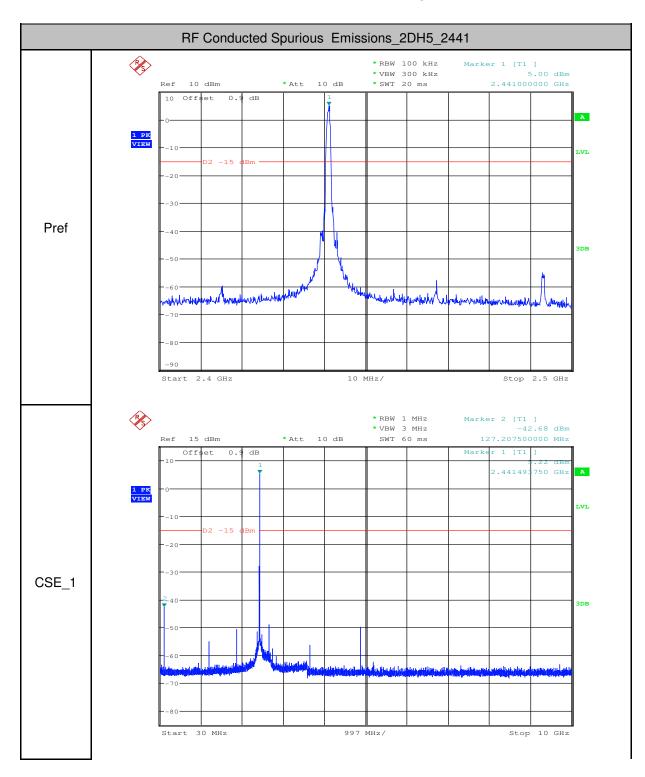
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Page: 97 of 150





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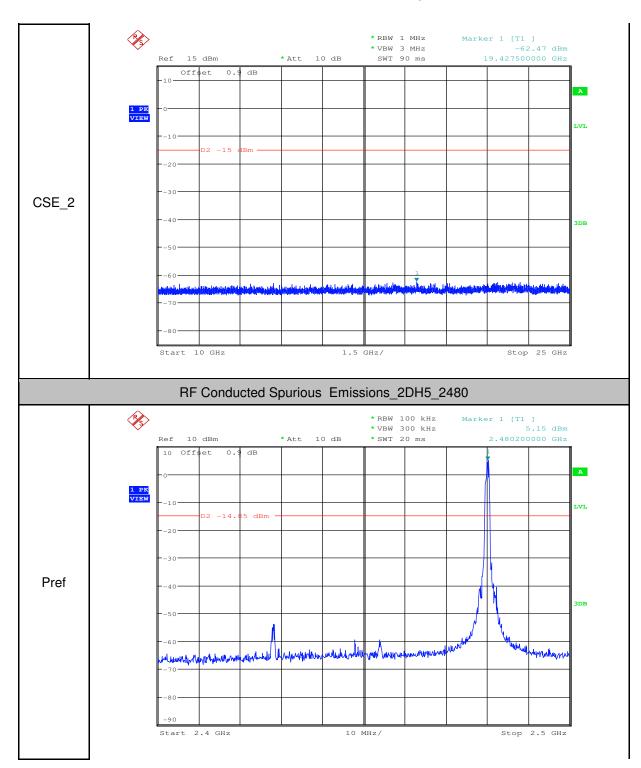
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Page: 98 of 150





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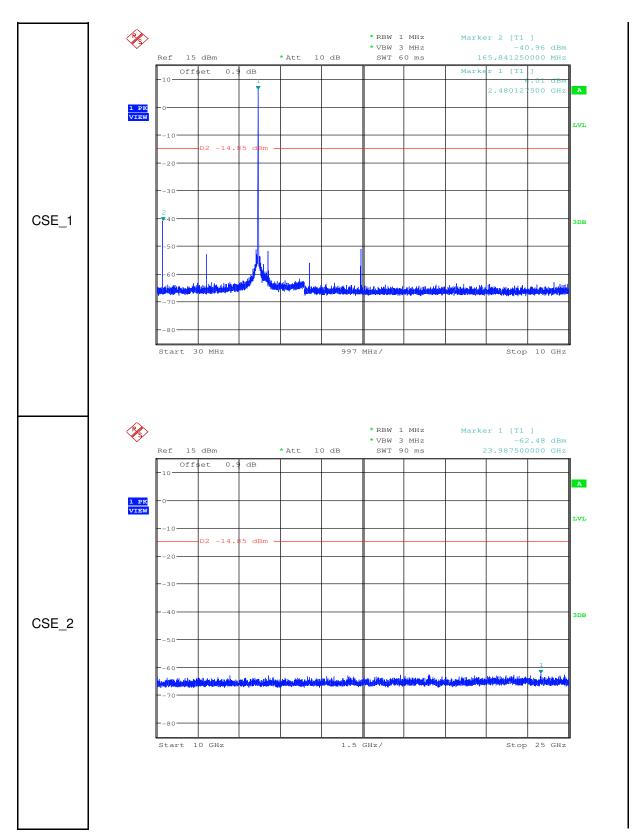
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Page: 99 of 150





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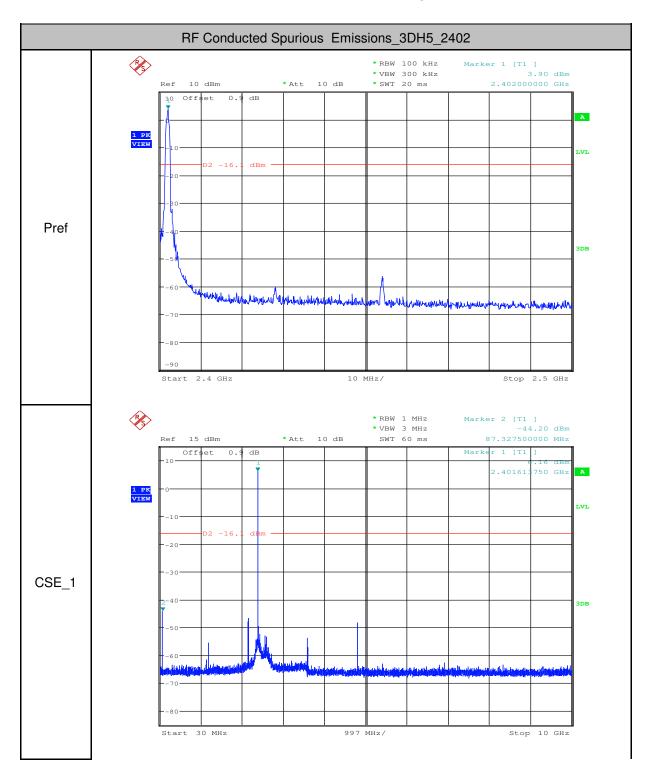
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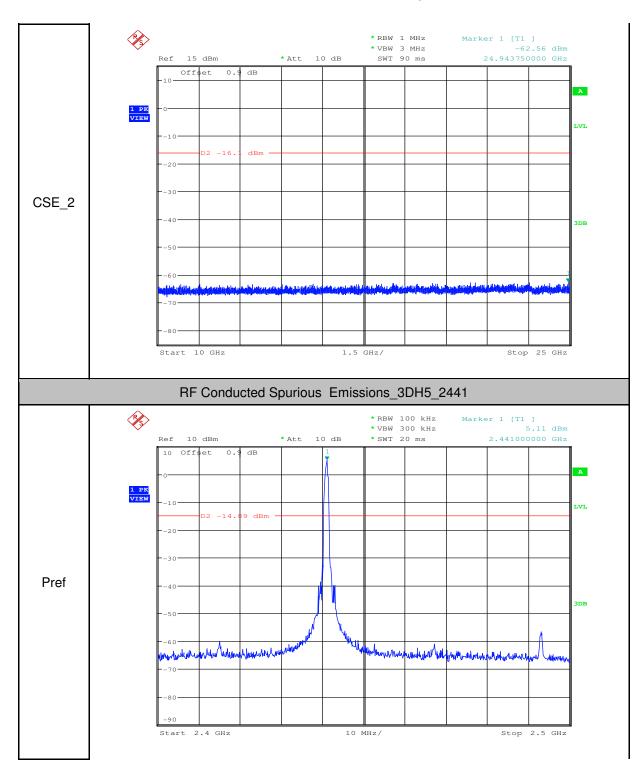
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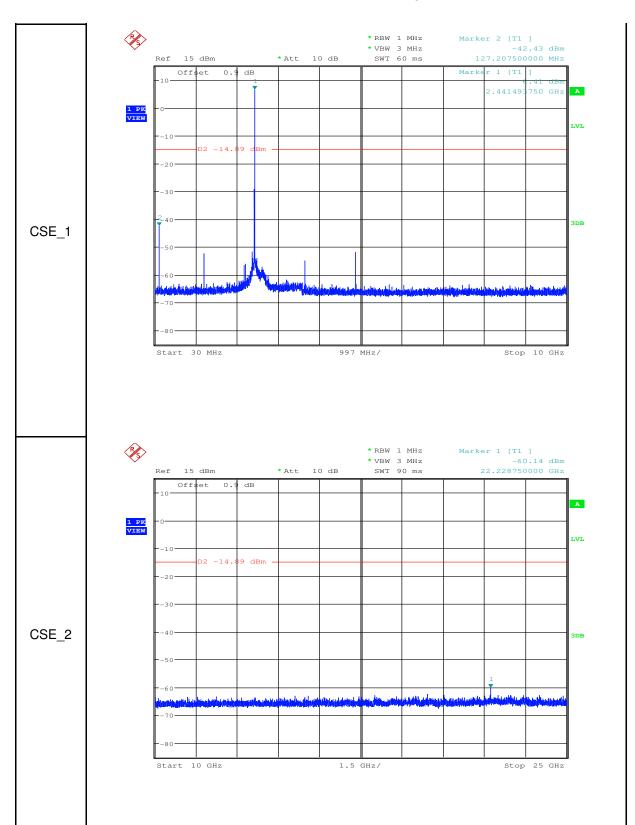
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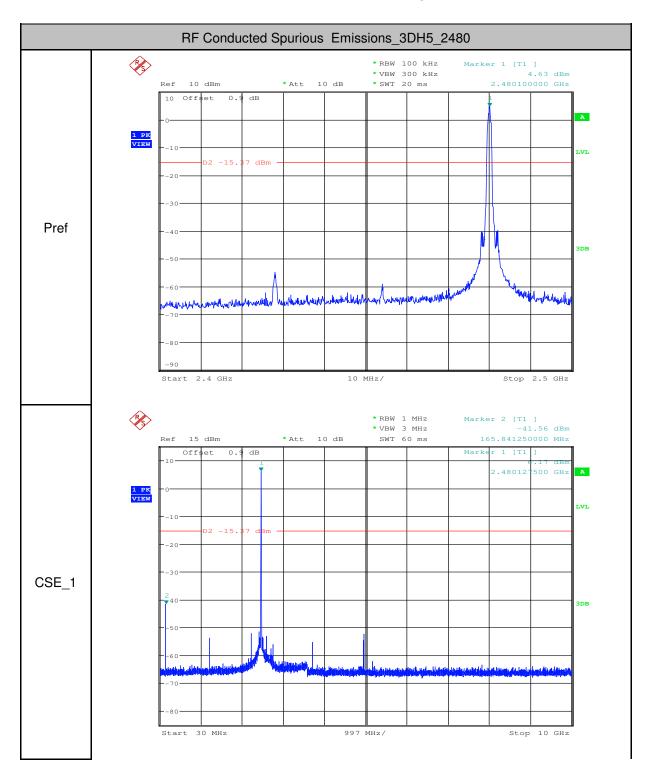
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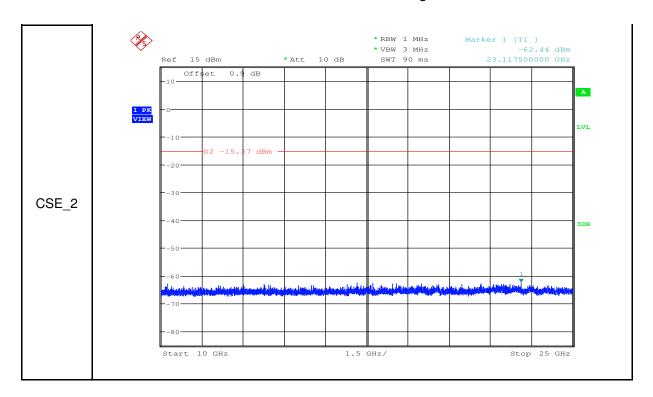
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104 of 150 Page:





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Page: 105 of 150

#### 9.2 Appendix 15.247-Right earbuds

#### 1.20 dB Bandwidth

Test Mode	Test Channel	EBW[MHz]	Limit[MHz]	Verdict
DH5	2402	1.050		PASS
DH5	2441	1.046		PASS
DH5	2480	1.046		PASS
2DH5	2402	1.186		PASS
2DH5	2441	1.186		PASS
2DH5	2480	1.186		PASS
3DH5	2402	1.206		PASS
3DH5	2441	1.206		PASS
3DH5	2480	1.202		PASS



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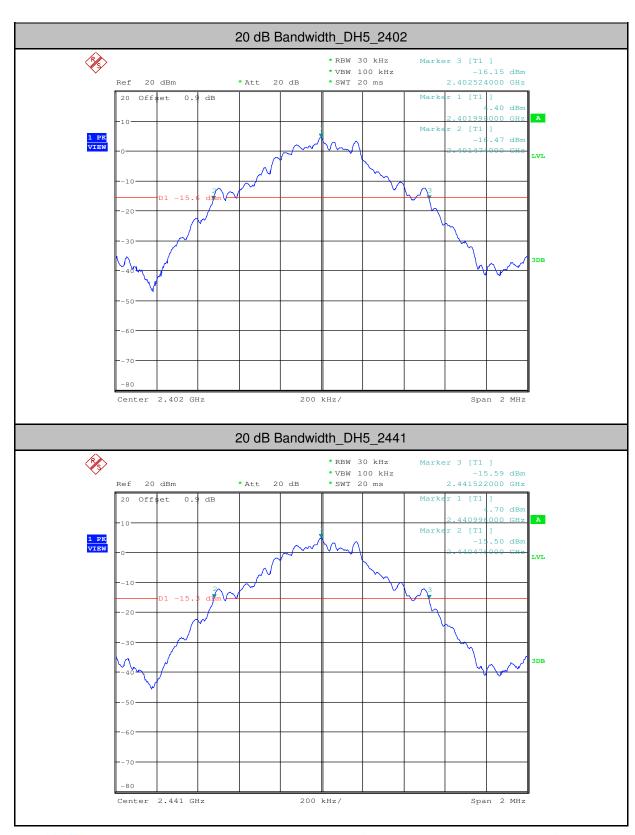
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Page: 106 of 150





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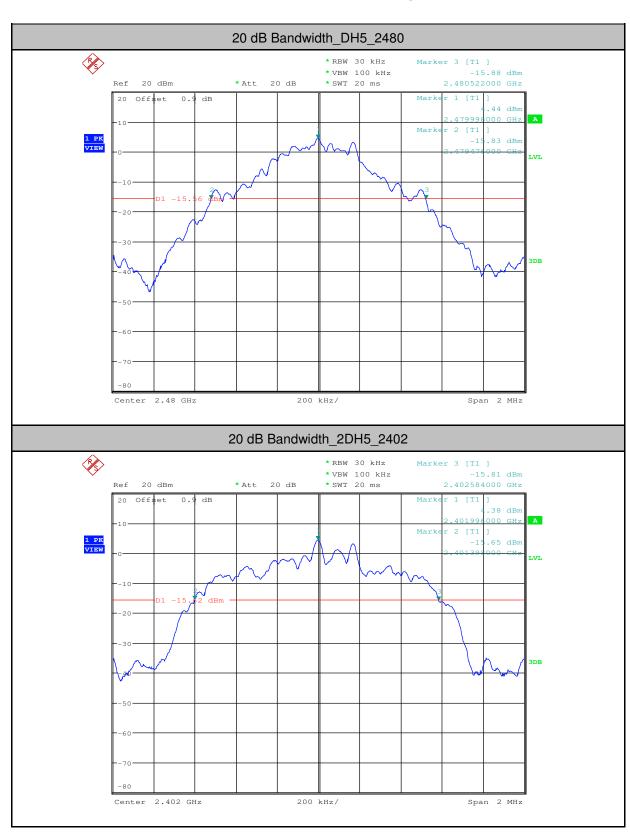
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Page: 107 of 150





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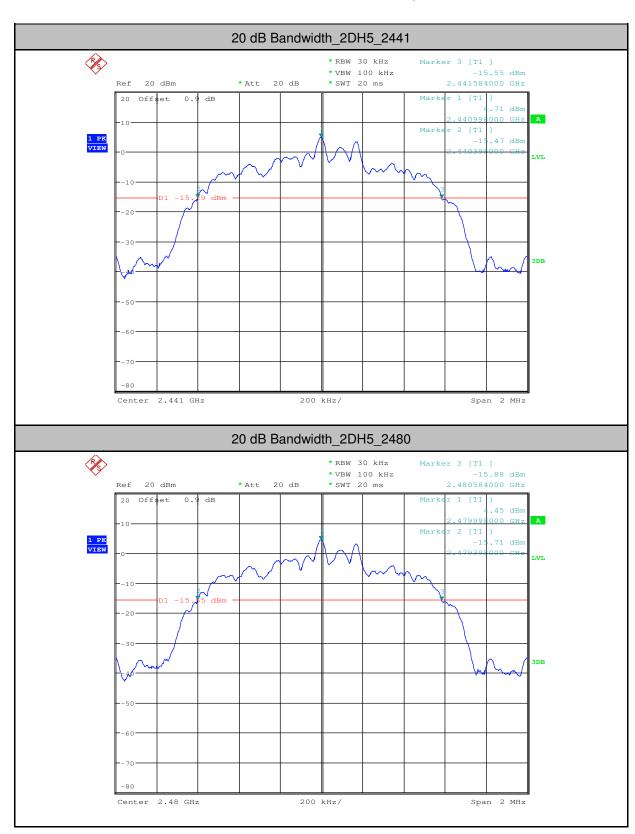
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Page: 108 of 150





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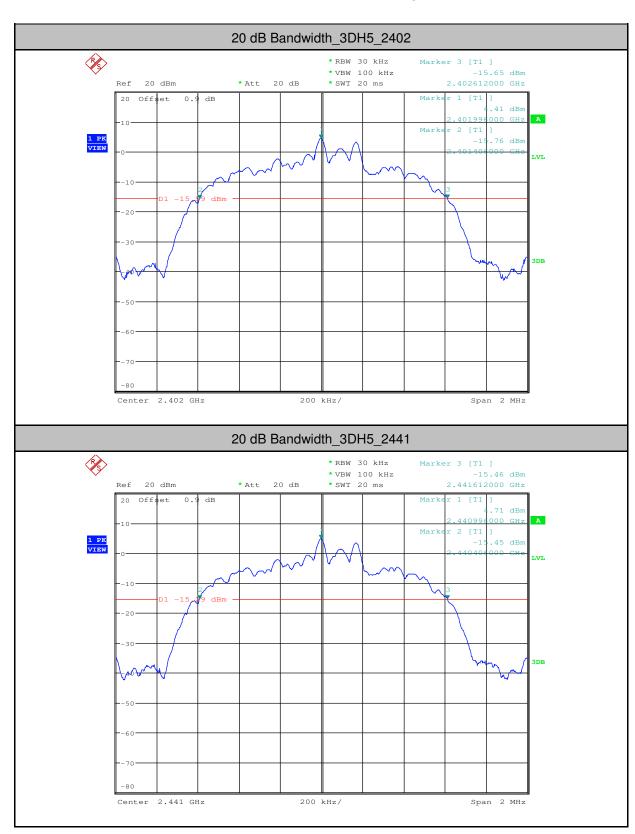
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Page: 109 of 150





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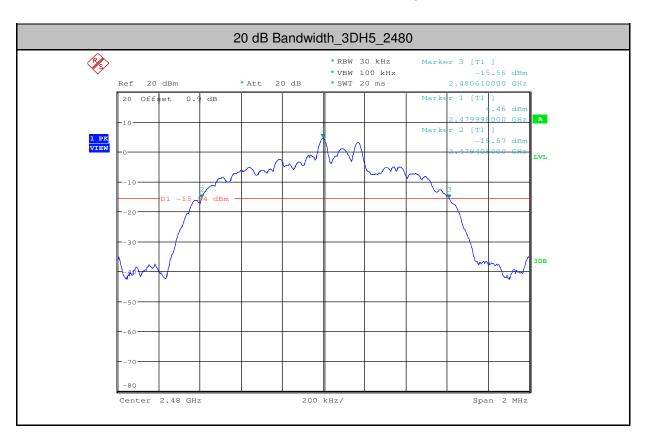
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Report No.: SZEM190101054002

Page: 110 of 150



#### 2.Conducted Peak Output Power

Test Mode	Test Channel	Power[dBm]	Limit[dBm]	Verdict
DH5	2402	6.24	<=20.97	PASS
DH5	2441	6.47	<=20.97	PASS
DH5	2480	6.15	<=20.97	PASS
2DH5	2402	6.24	<=20.97	PASS
2DH5	2441	6.49	<=20.97	PASS
2DH5	2480	6.20	<=20.97	PASS
3DH5	2402	6.27	<=20.97	PASS
3DH5	2441	6.48	<=20.97	PASS
3DH5	2480	6.18	<=20.97	PASS



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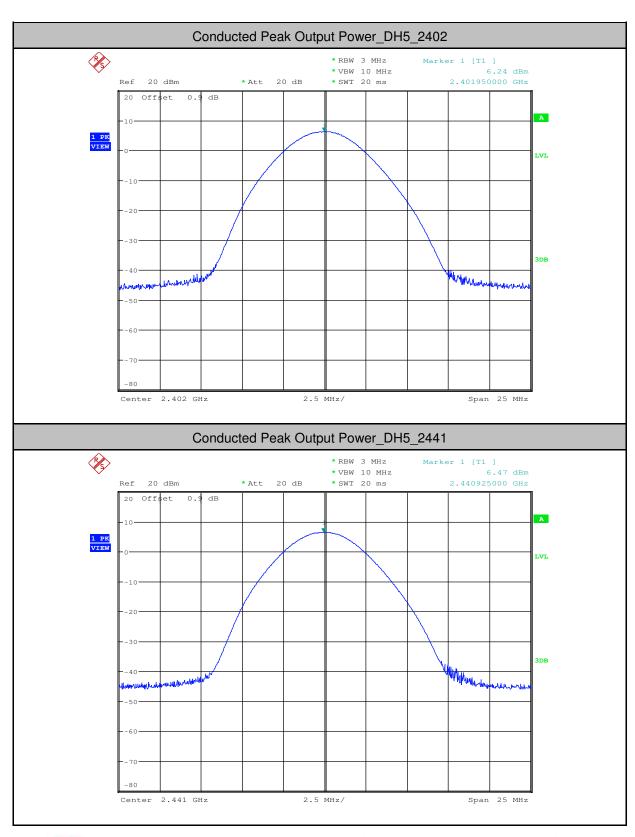
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Page: 111 of 150





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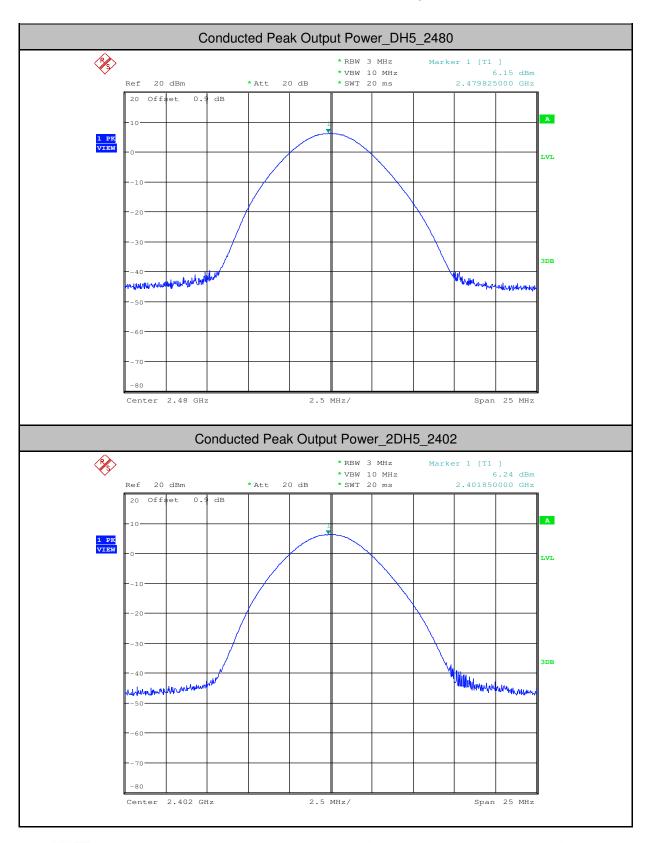
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Page: 112 of 150





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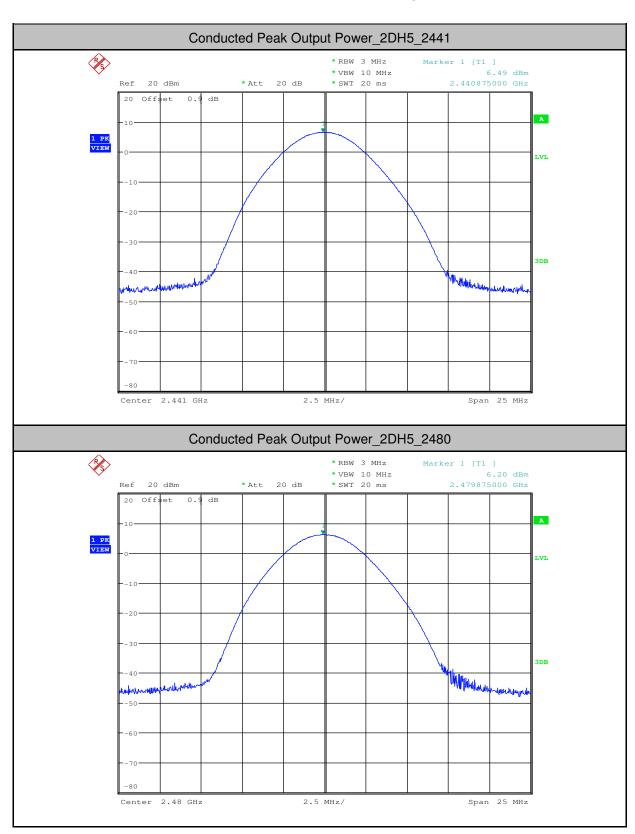
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Page: 113 of 150





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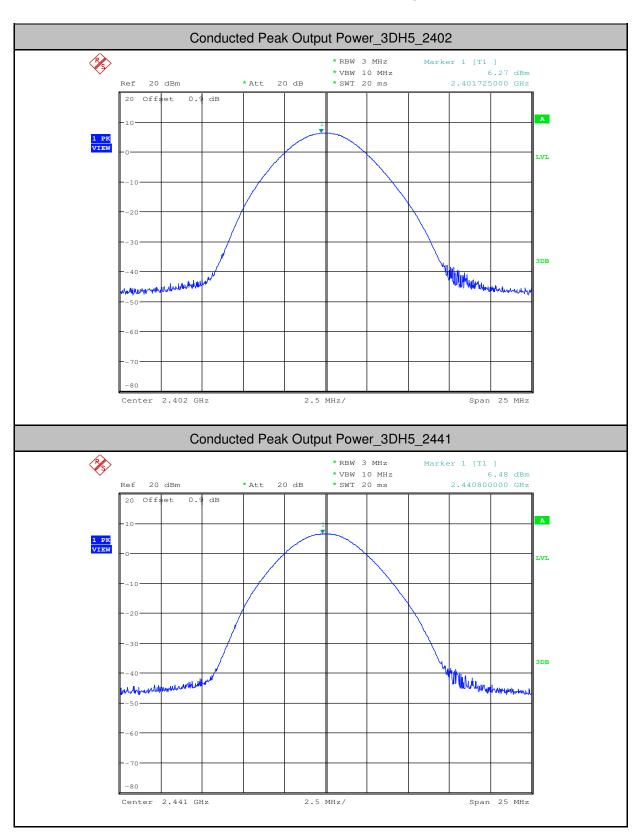
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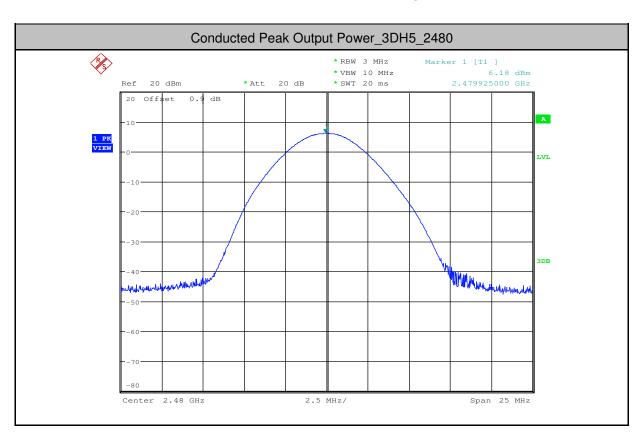
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Report No.: SZEM190101054002

115 of 150 Page:



#### 3. Carrier Frequency Separation

Test Mode	Test Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	2441	1.005	>=0.70	PASS
2DH5	2441	1.011	>=0.79	PASS
3DH5	2441	1.005	>=0.80	PASS



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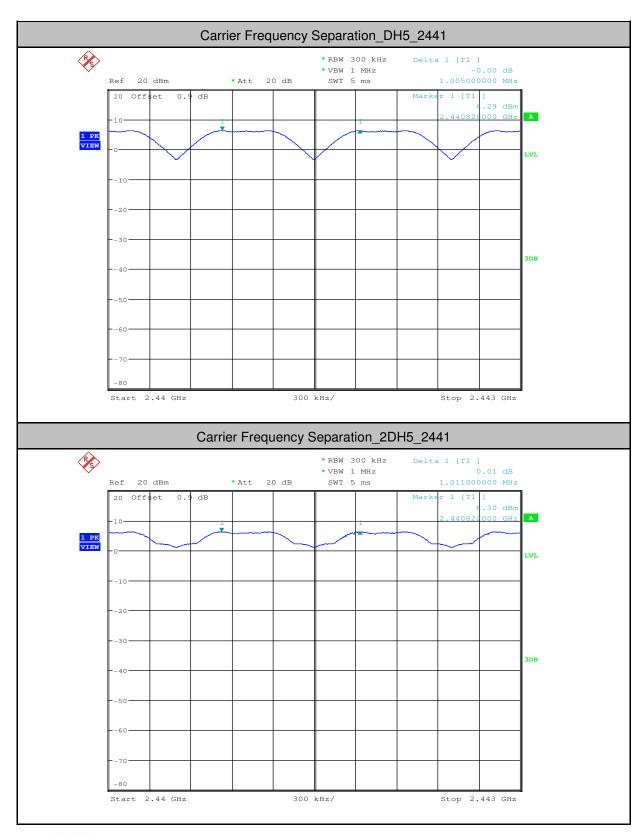
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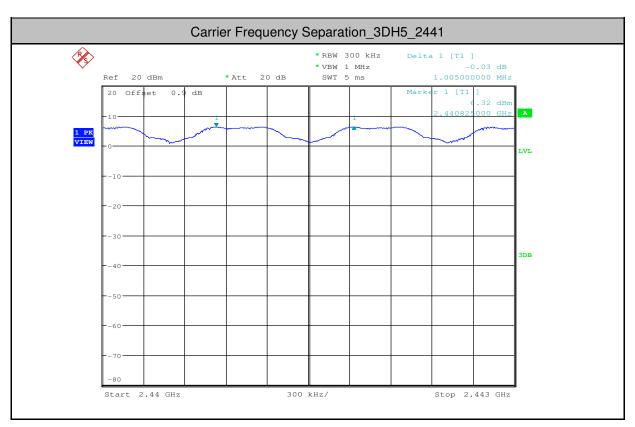
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Report No.: SZEM190101054002

Page: 117 of 150



#### 4.Dwell Time

Test Mode	Test Channel	Burst Width[ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit[s]	Verdict
DH1	2402	0.38	150	0.057	<0.4	PASS
DH3	2402	1.64	110	0.18	<0.4	PASS
DH5	2402	2.89	60	0.173	<0.4	PASS
2DH1	2402	0.39	150	0.059	<0.4	PASS
2DH3	2402	1.65	130	0.215	<0.4	PASS
2DH5	2402	2.89	60	0.173	<0.4	PASS
3DH1	2402	0.39	110	0.043	<0.4	PASS
3DH3	2402	1.65	100	0.165	<0.4	PASS
3DH5	2402	2.89	80	0.231	<0.4	PASS



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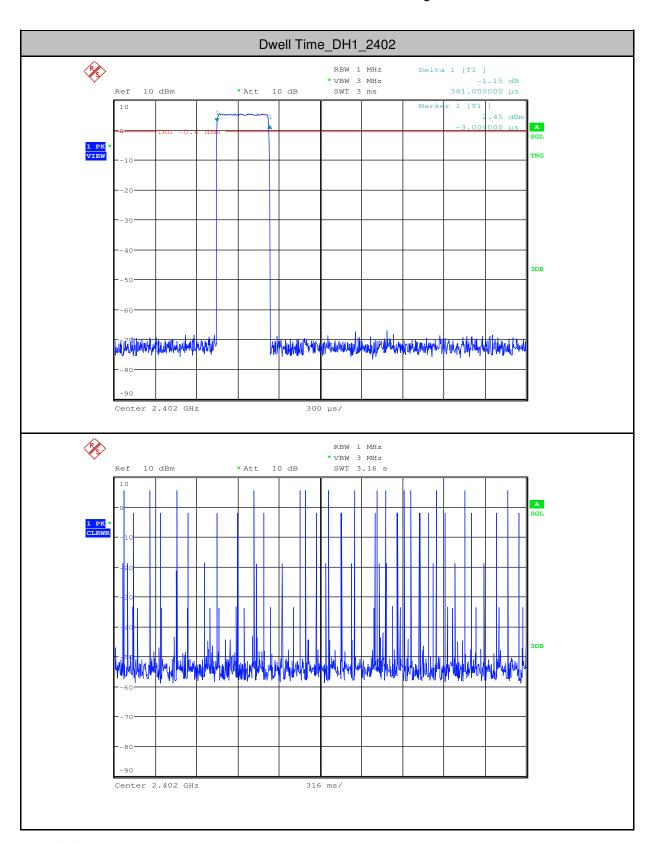
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Page: 118 of 150





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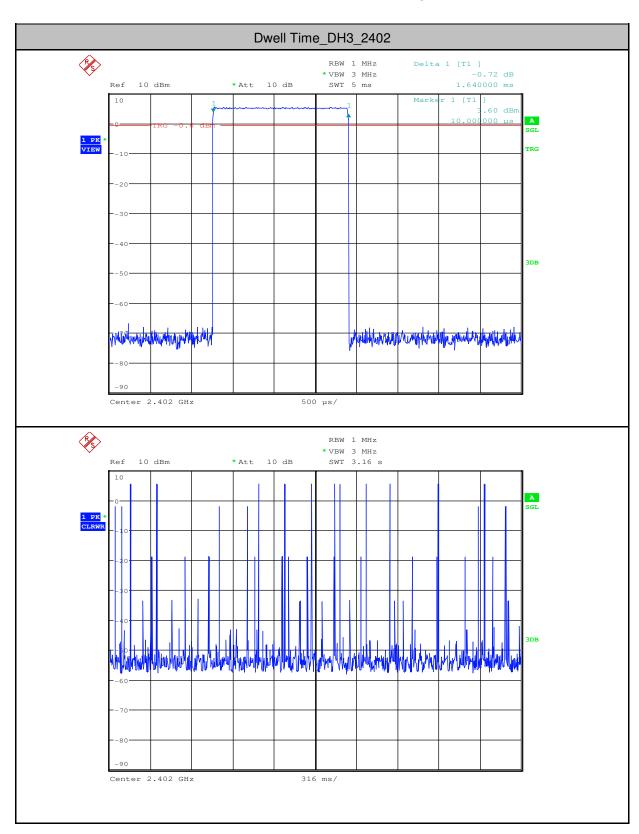
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Report No.: SZEM190101054002

Page: 119 of 150





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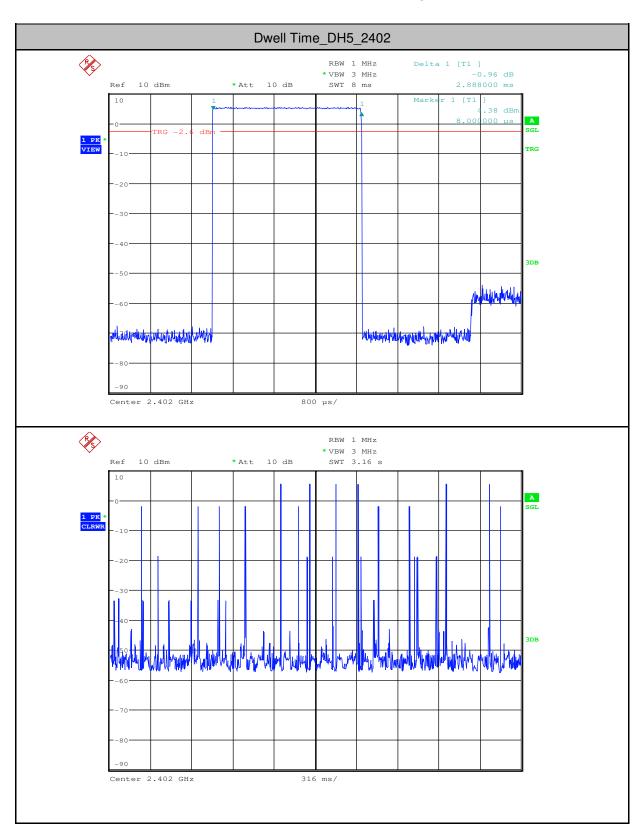
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Report No.: SZEM190101054002

Page: 120 of 150





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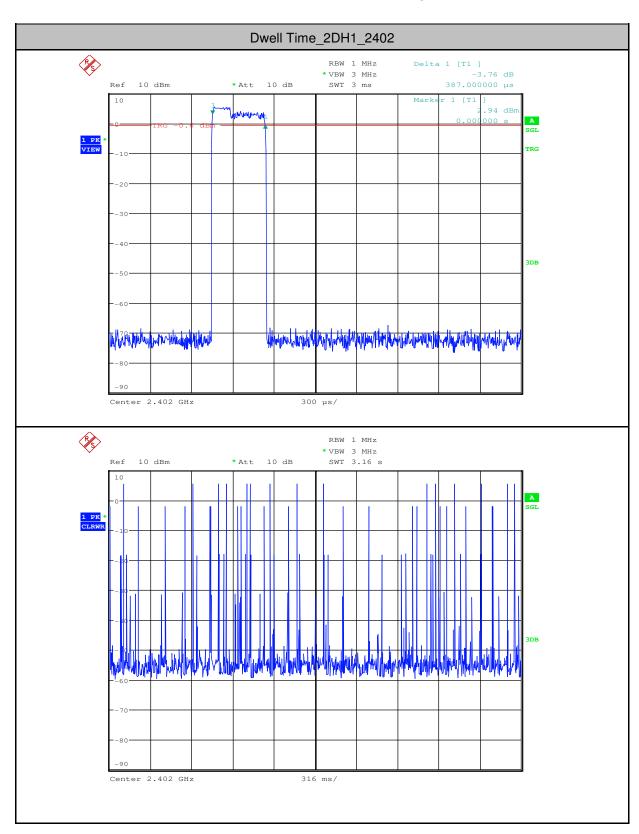
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Report No.: SZEM190101054002

Page: 121 of 150





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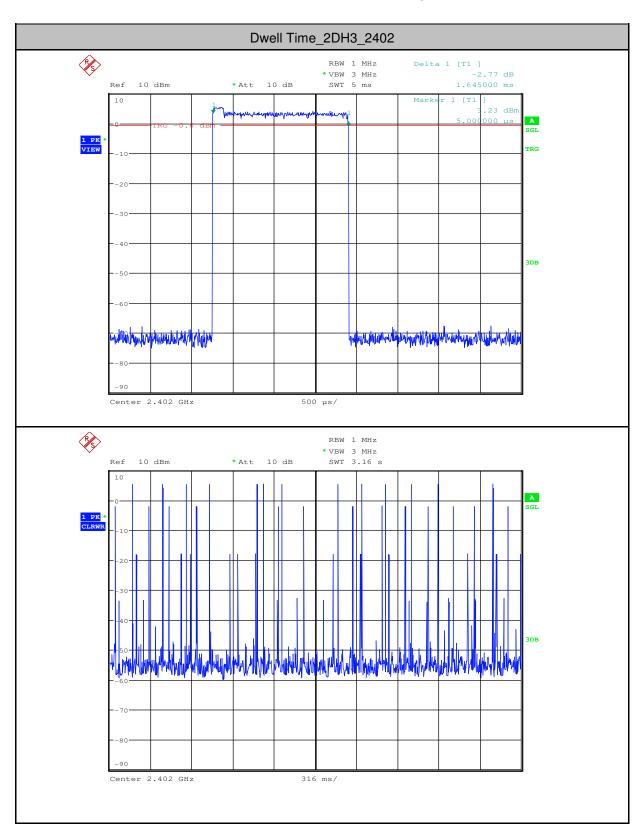
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Report No.: SZEM190101054002

Page: 122 of 150





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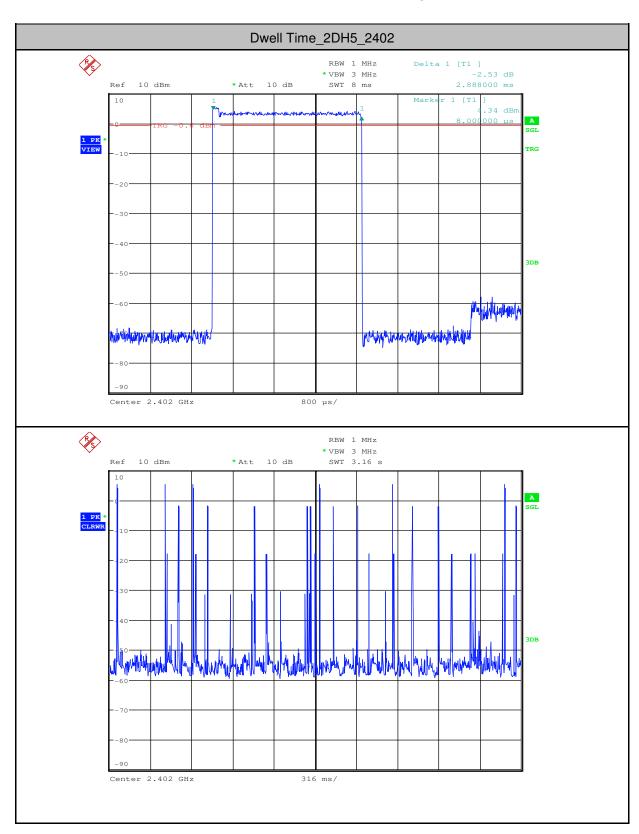
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Report No.: SZEM190101054002

Page: 123 of 150





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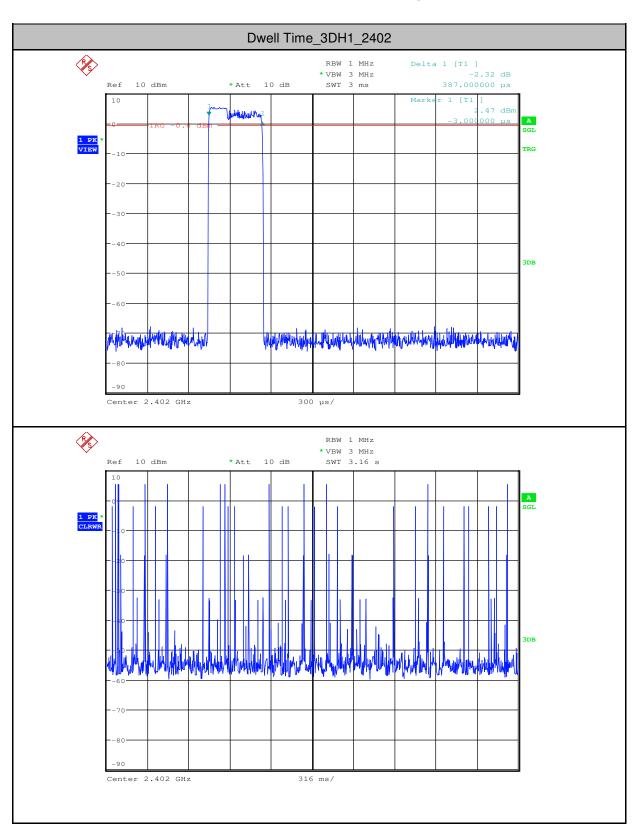
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Page: 124 of 150





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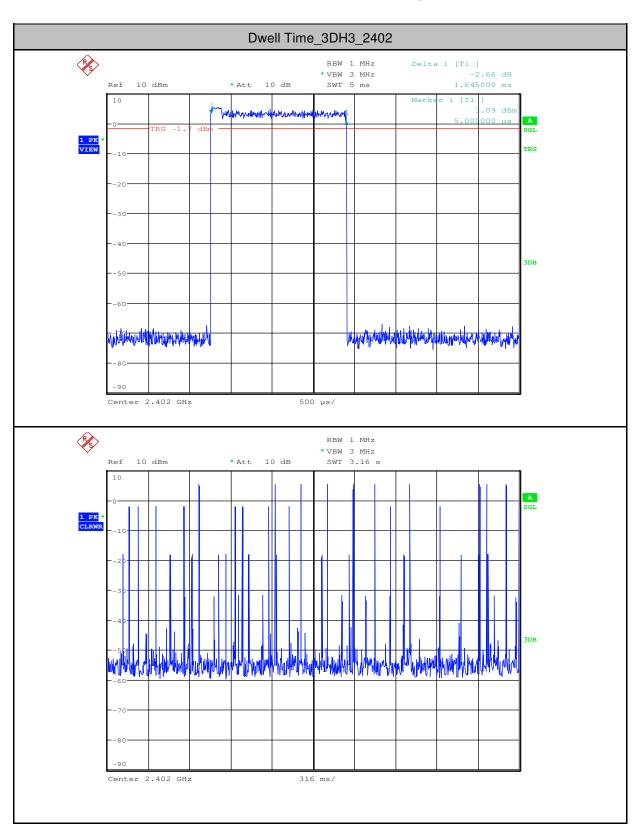
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Page: 125 of 150





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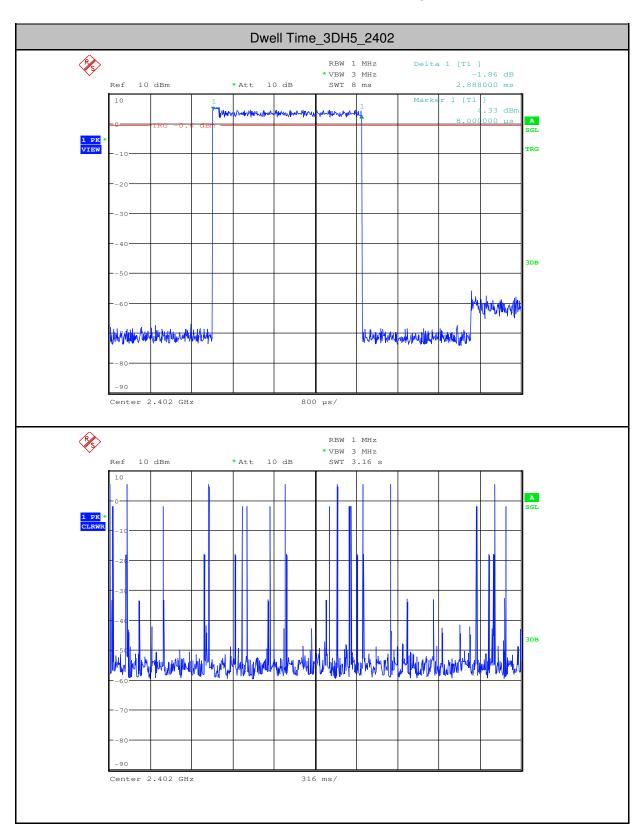
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Page: 126 of 150





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Report No.: SZEM190101054002

127 of 150 Page:

#### 5. Hopping Channel Number

Test Mode	Test Channel	Number of Hopping Channel[N]	Limit[N]	Verdict
DH5	2402	79	>=15	PASS
2DH5	2402	79	>=15	PASS
3DH5	2402	79	>=15	PASS



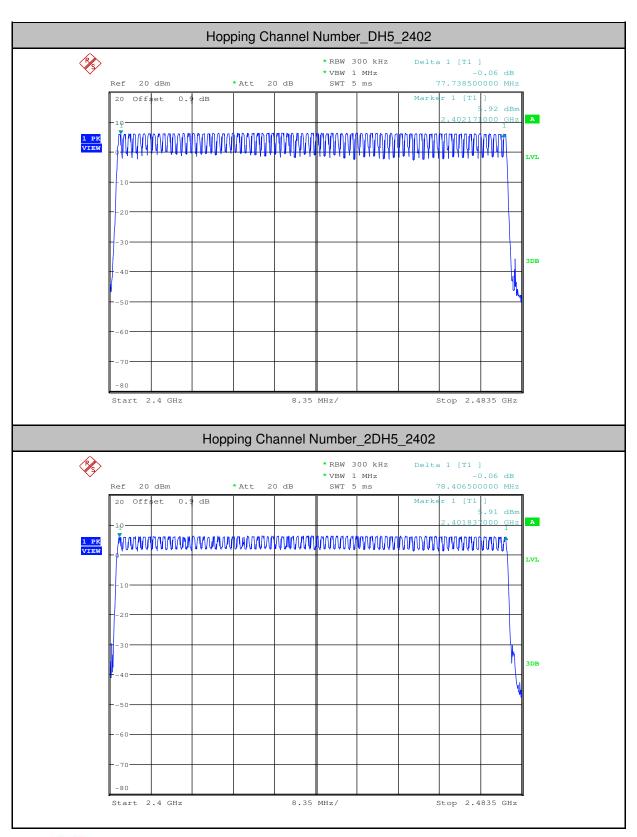
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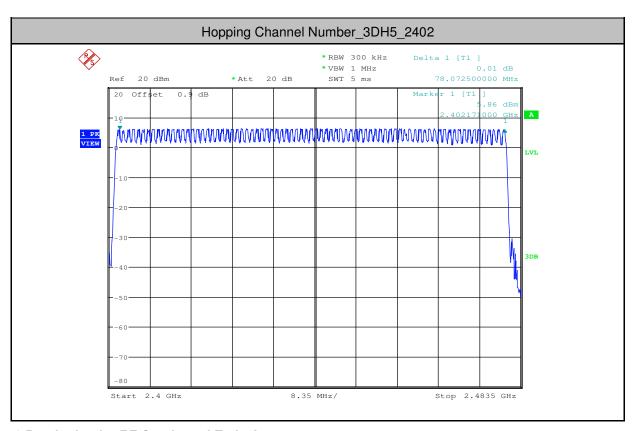
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Page: 129 of 150



#### 6.Band-edge for RF Conducted Emissions

Test Mode	Test Channel	Hopping	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit[dBm]	Verdict
DH5	2402	On	5.650	-51.663	<-14.35	PASS
DH5	2402	Off	5.650	-52.973	<-14.35	PASS
DH5	2480	On	5.030	-52.430	<-14.97	PASS
DH5	2480	Off	5.460	-53.322	<-14.54	PASS
2DH5	2402	On	5.450	-51.614	<-14.55	PASS
2DH5	2402	Off	5.500	-53.279	<-14.5	PASS
2DH5	2480	On	5.450	-53.180	<-14.55	PASS
2DH5	2480	Off	5.390	-53.748	<-14.61	PASS
3DH5	2402	On	3.200	-52.513	<-16.8	PASS
3DH5	2402	Off	3.430	-53.541	<-16.57	PASS
3DH5	2480	On	5.240	-52.882	<-14.76	PASS
3DH5	2480	Off	5.390	-53.175	<-14.61	PASS



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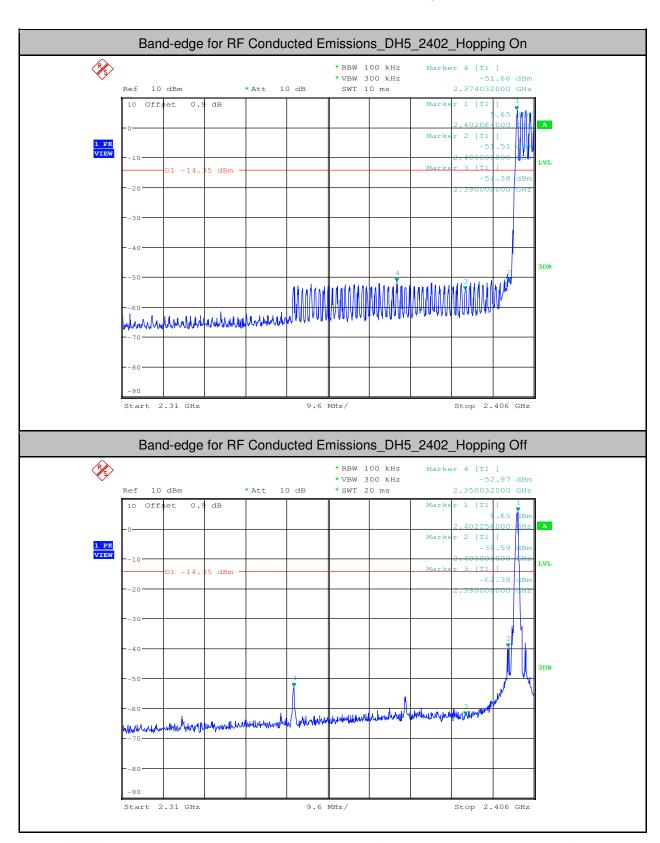
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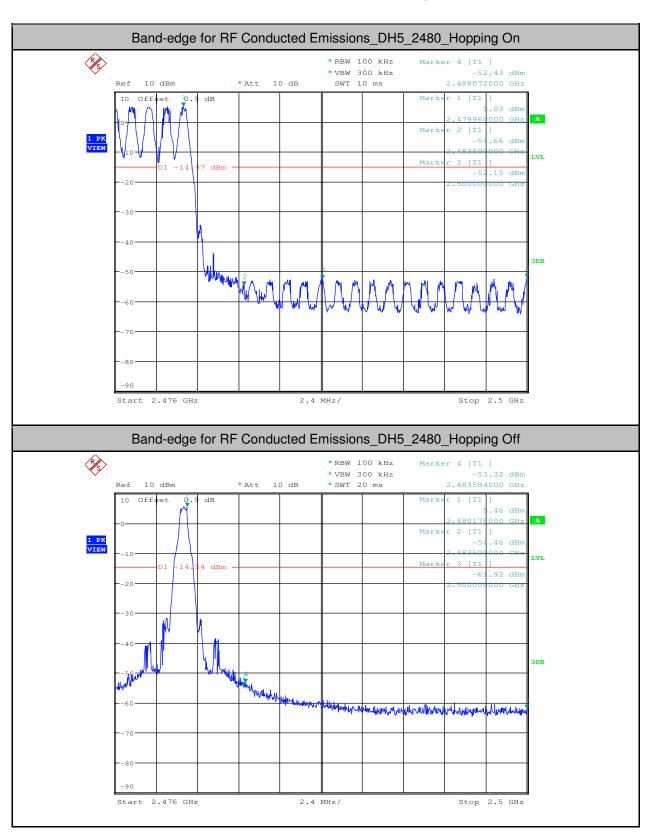
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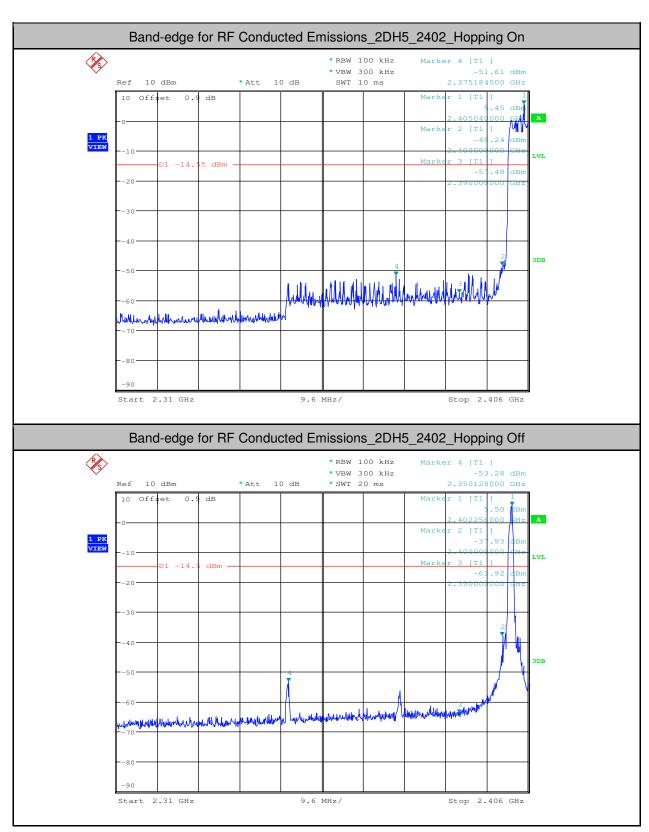
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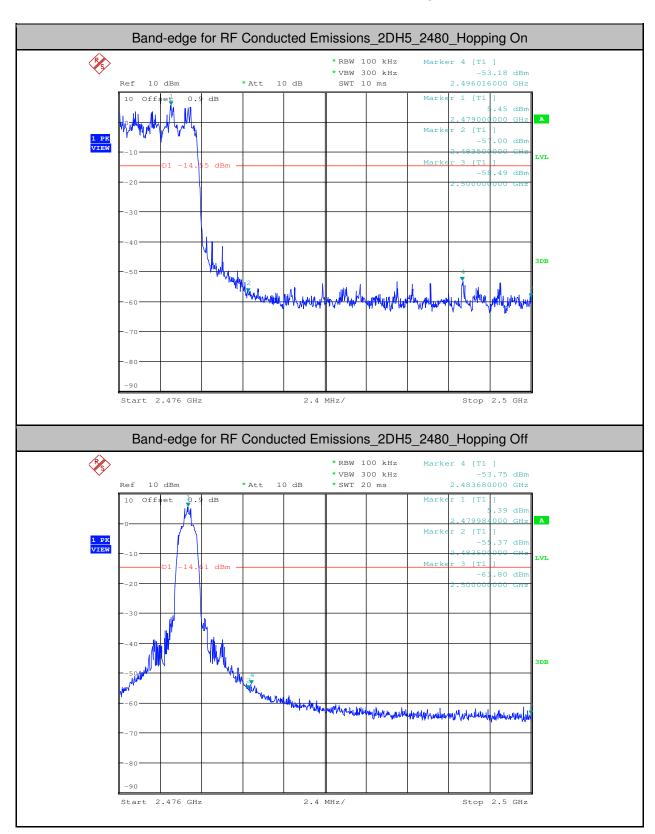
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Report No.: SZEM190101054002

Page: 133 of 150





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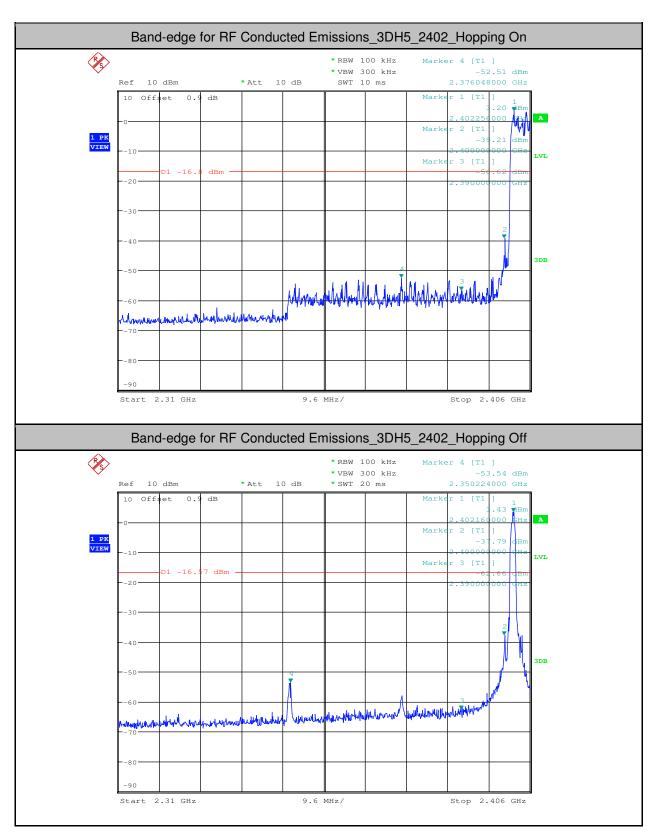
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Report No.: SZEM190101054002

Page: 134 of 150





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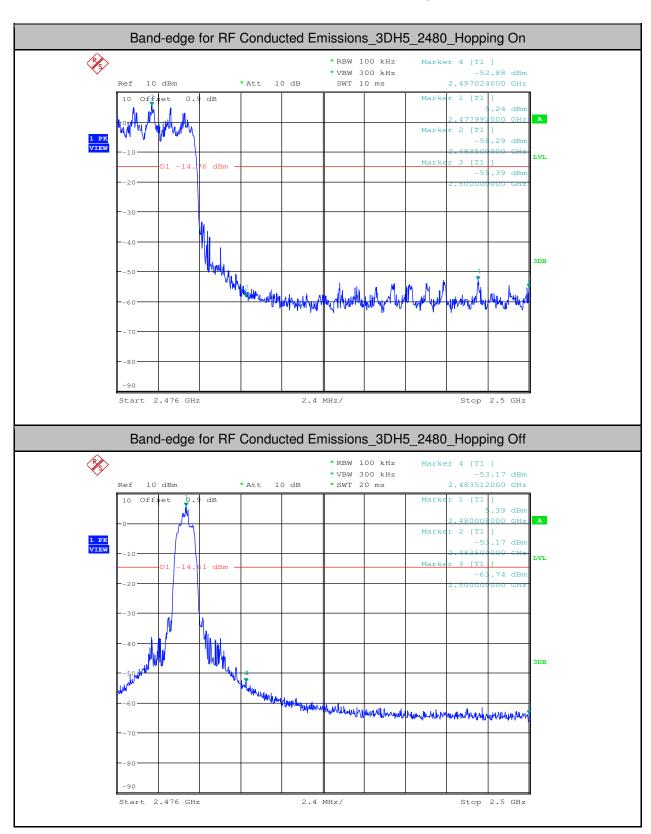
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Report No.: SZEM190101054002

Page: 135 of 150





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Report No.: SZEM190101054002

Page: 136 of 150

#### 7.RF Conducted Spurious Emissions

Test Mode	Test Channel	StartFre [MHz]	StopFre [MHz]	RBW [kHz]	VBW [kHz]	Pref[dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
DH5	2402	30	10000	1000	3000	5.63	-34.380	<-14.37	PASS
DH5	2402	10000	25000	1000	3000	5.63	-62.730	<-14.37	PASS
DH5	2441	30	10000	1000	3000	5.89	-40.830	<-14.11	PASS
DH5	2441	10000	25000	1000	3000	5.89	-62.800	<-14.11	PASS
DH5	2480	30	10000	1000	3000	5.11	-40.550	<-14.89	PASS
DH5	2480	10000	25000	1000	3000	5.11	-62.030	<-14.89	PASS
2DH5	2402	30	10000	1000	3000	4.94	-40.820	<-15.06	PASS
2DH5	2402	10000	25000	1000	3000	4.94	-61.970	<-15.06	PASS
2DH5	2441	30	10000	1000	3000	5.77	-43.890	<-14.23	PASS
2DH5	2441	10000	25000	1000	3000	5.77	-61.890	<-14.23	PASS
2DH5	2480	30	10000	1000	3000	5.44	-40.930	<-14.56	PASS
2DH5	2480	10000	25000	1000	3000	5.44	-62.100	<-14.56	PASS
3DH5	2402	30	10000	1000	3000	5.38	-42.550	<-14.62	PASS
3DH5	2402	10000	25000	1000	3000	5.38	-61.540	<-14.62	PASS
3DH5	2441	30	10000	1000	3000	4.79	-41.080	<-15.21	PASS
3DH5	2441	10000	25000	1000	3000	4.79	-61.740	<-15.21	PASS
3DH5	2480	30	10000	1000	3000	5.55	-40.470	<-14.45	PASS
3DH5	2480	10000	25000	1000	3000	5.55	-62.270	<-14.45	PASS



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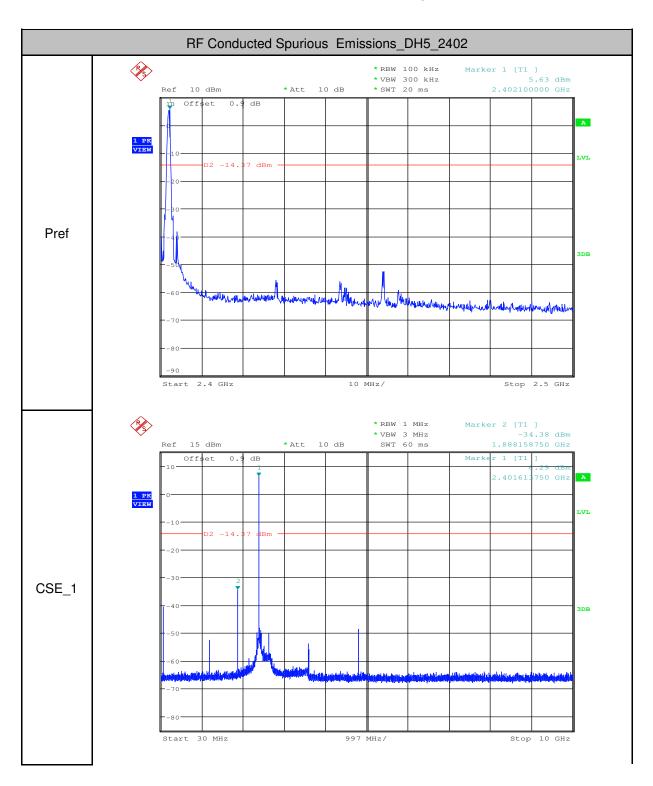
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Report No.: SZEM190101054002

Page: 137 of 150





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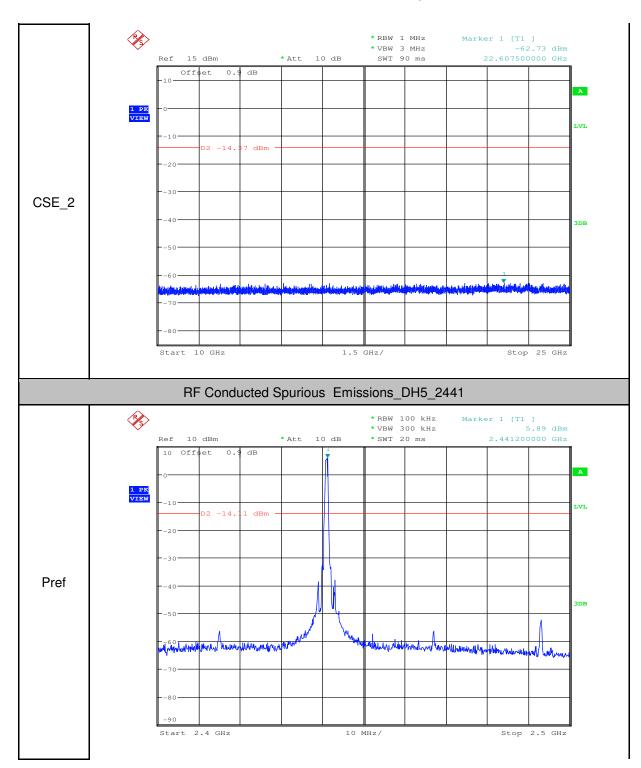
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Page: 138 of 150





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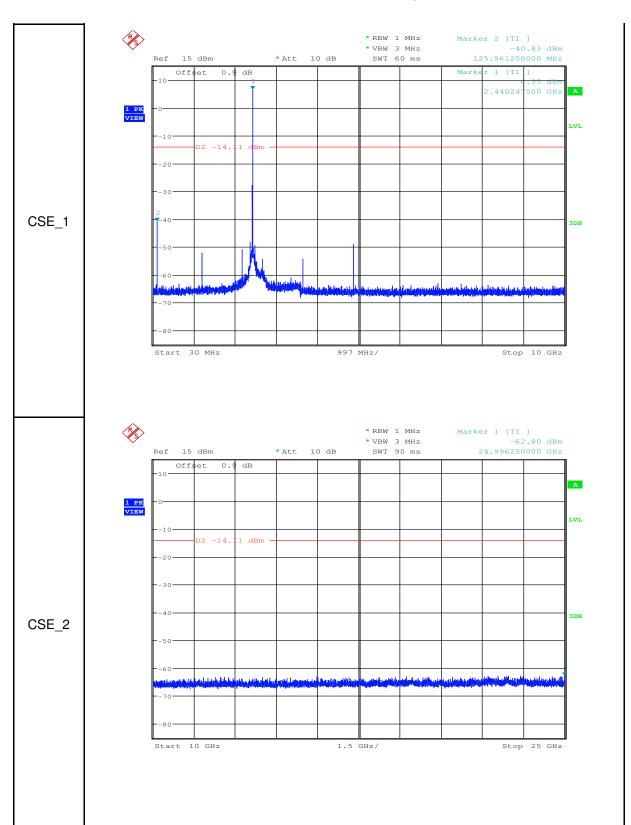
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Page: 139 of 150





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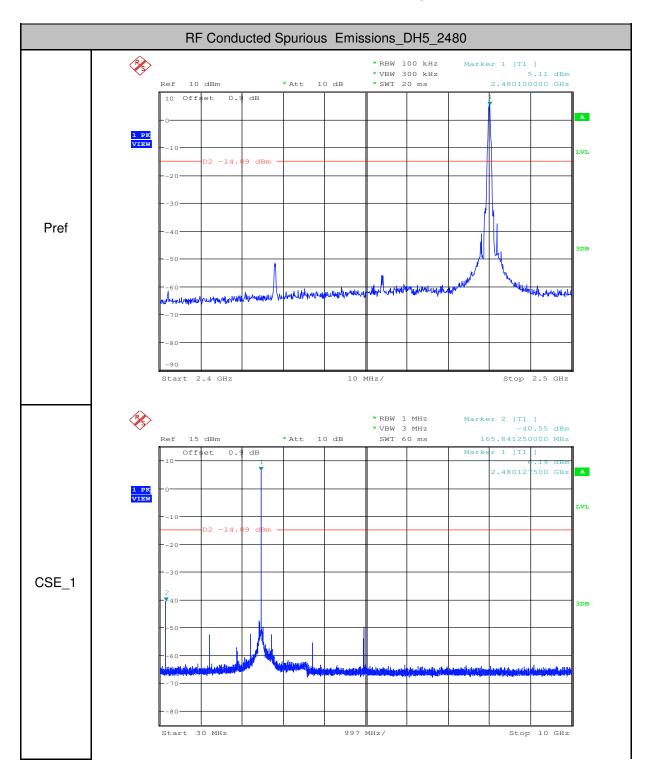
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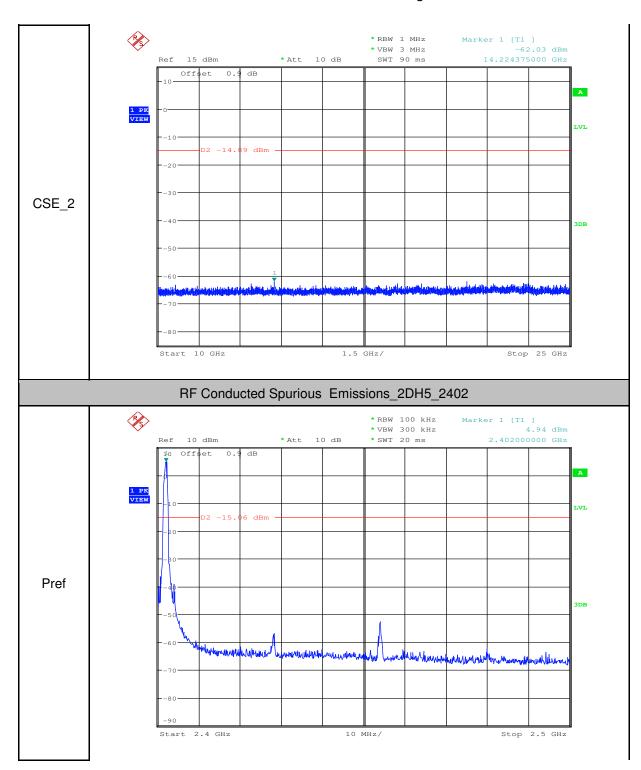
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Page: 141 of 150





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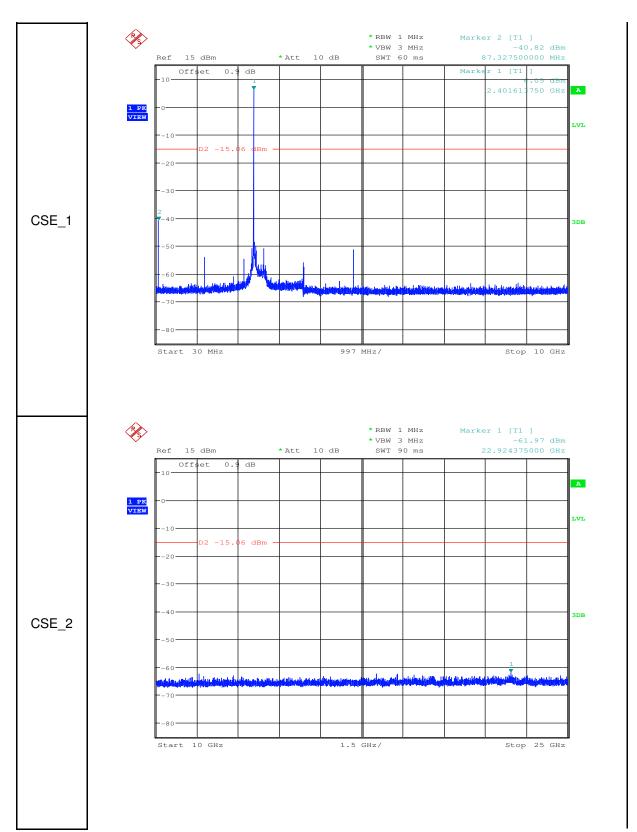
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Report No.: SZEM190101054002

142 of 150 Page:





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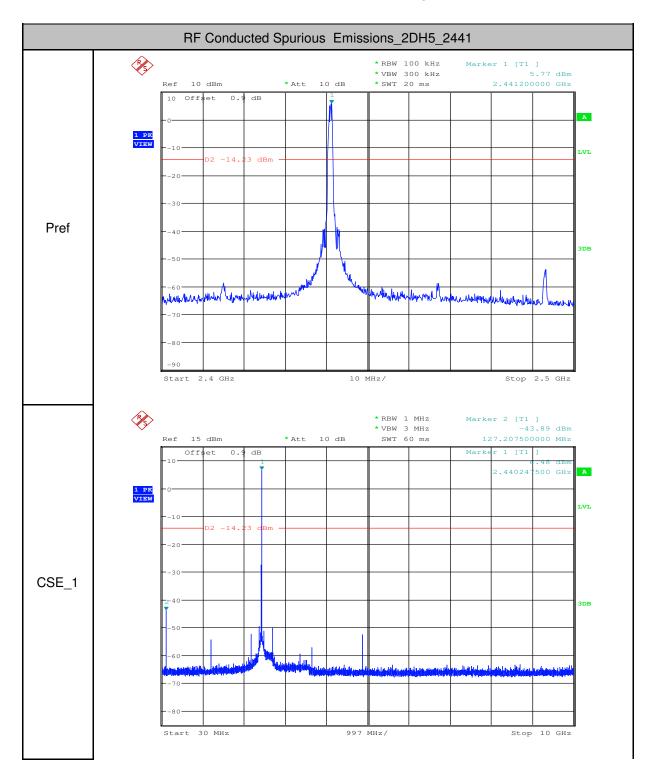
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Page: 143 of 150





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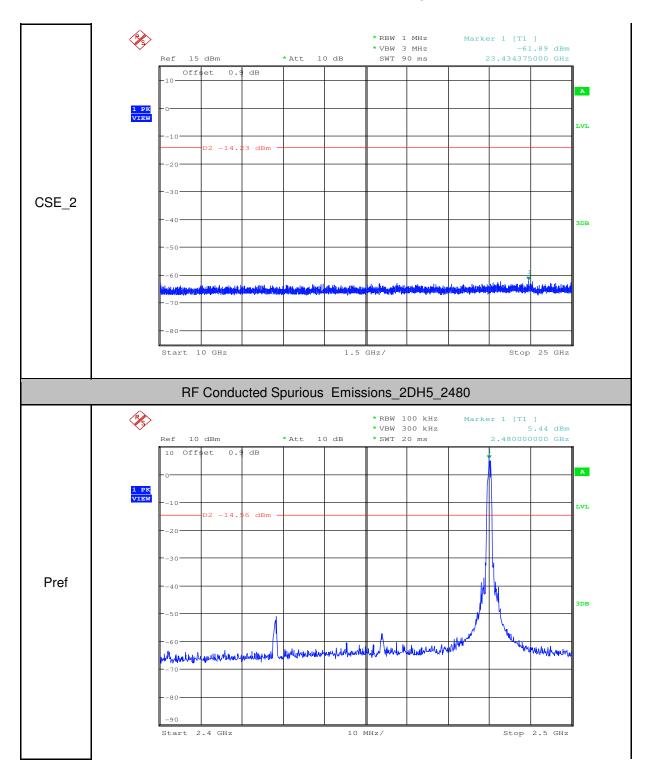
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Page: 144 of 150





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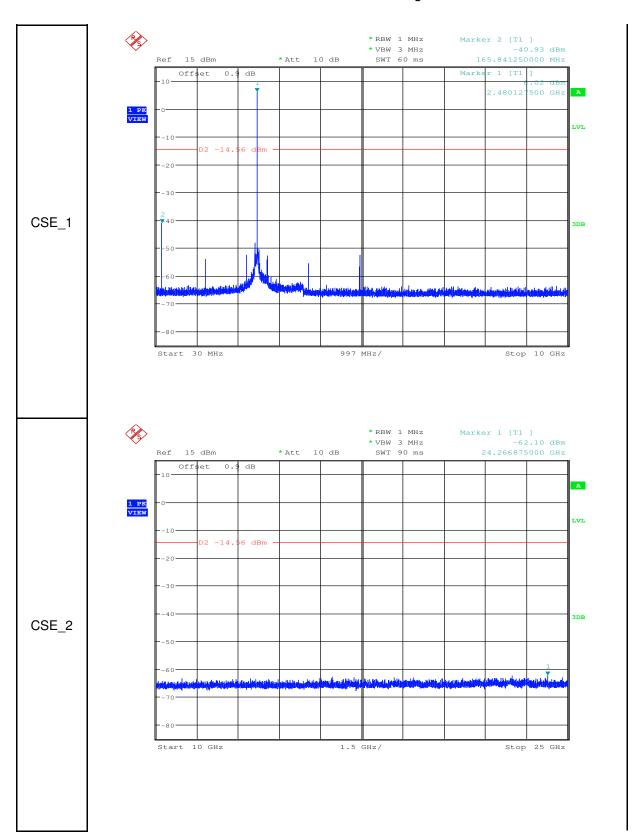
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145 of 150 Page:





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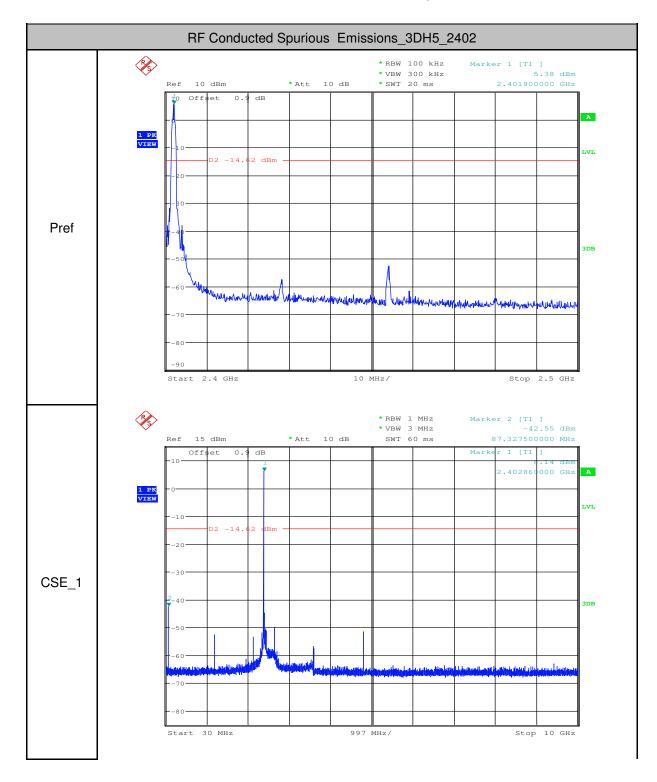
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Report No.: SZEM190101054002

Page: 146 of 150





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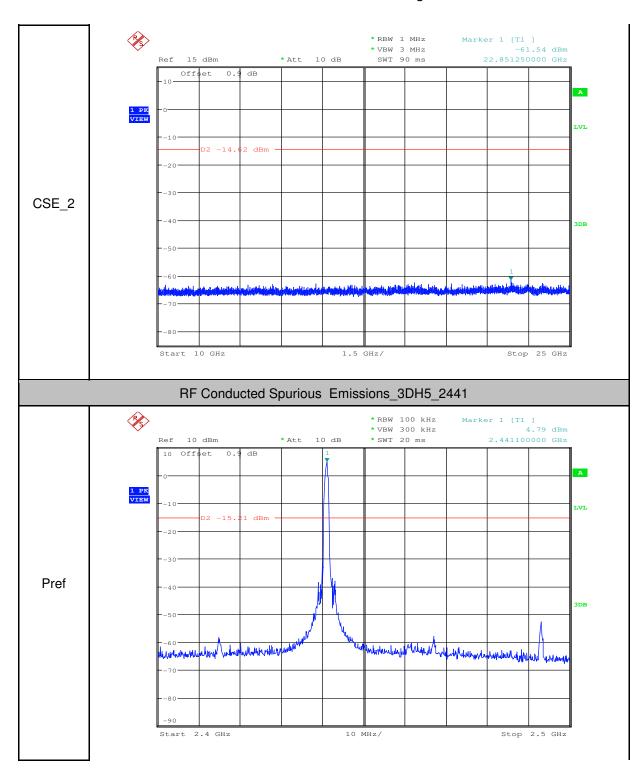
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Report No.: SZEM190101054002

147 of 150 Page:





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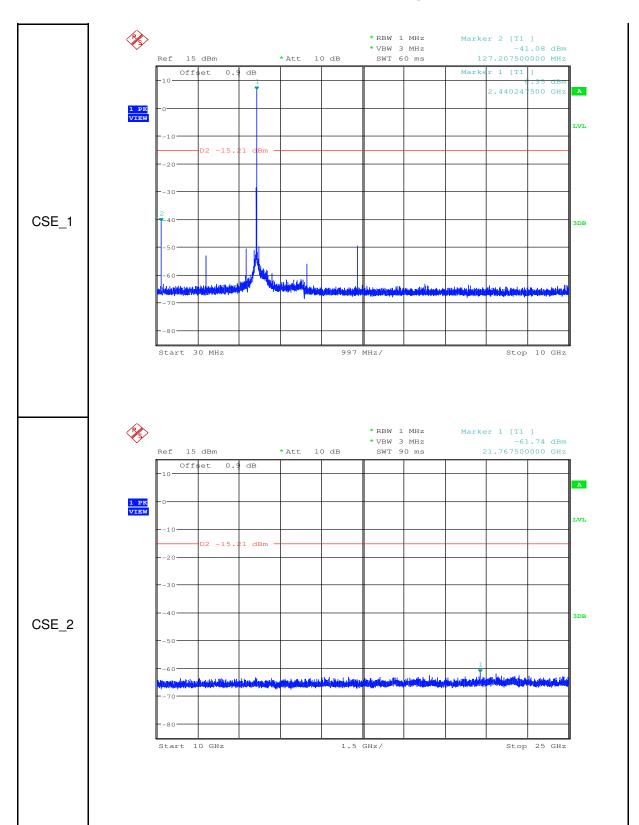
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Report No.: SZEM190101054002

Page: 148 of 150





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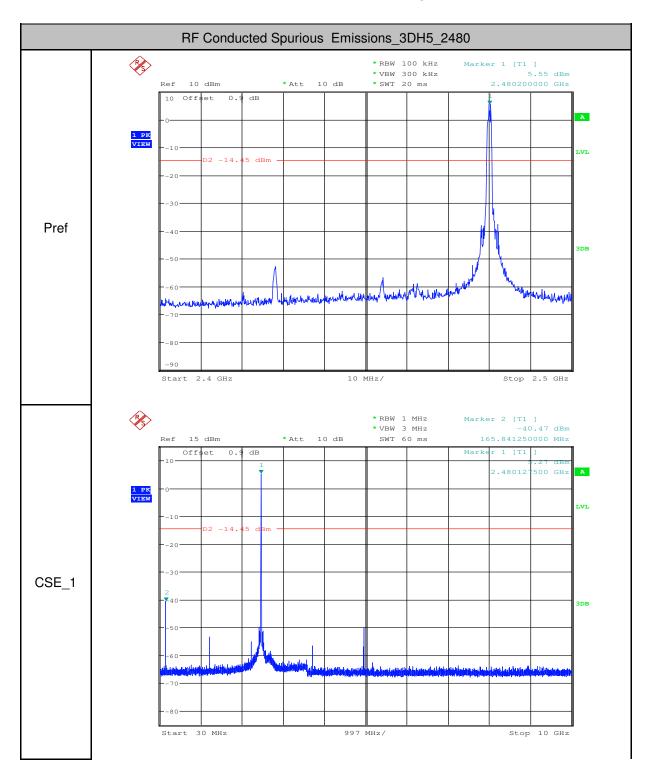
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Report No.: SZEM190101054002

Page: 149 of 150





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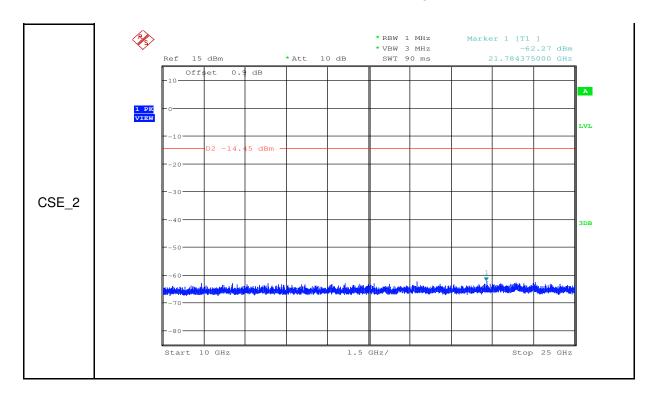
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Report No.: SZEM190101054002

150 of 150 Page:



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