



Report No.: SZEM190601521102

Page: 1 of 152

TEST REPORT

Application No.: SZEM1906015211CR

Applicant: Kingstate Electronics(DongGuan)Co., Ltd.

Address of Applicant: Shi Chong Industrial Park, Shi Chong Avenue, Xiang Xi Village, Shi Pai

Town, Dongguan, China

Manufacturer: Kingstate Electronics(DongGuan)Co., Ltd.

Address of Manufacturer: Shi Chong Industrial Park, Shi Chong Avenue, Xiang Xi Village, Shi Pai

Town, Dongguan, China

Equipment Under Test (EUT):

EUT Name: WIRELESS HEADPHONES

Model No.: HA-A10T Trade mark: JVC

FCC ID: 2AKMBHA-A10T

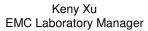
Standard(s): 47 CFR Part 15, Subpart C 15.247

Date of Receipt: 2019-06-15

Date of Test: 2019-06-17 to 2019-07-04

Date of Issue: 2019-07-09

Test Result: Pass*





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^{*} In the configuration tested, the EUT complied with the standards specified above.



Report No.: SZEM190601521102

Page: 2 of 152

	Revision Record						
Version	Version Chapter Date Modifier Rema						
01		2019-07-09		Original			

Authorized for issue by:		
	Hany Ul	
	Harry Wu /Project Engineer	-
	EvicFu	
	Eric Fu /Reviewer	-



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Report No.: SZEM190601521102

Page: 3 of 152

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(b)(4)	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 Matt	er 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.: SZEM190601521102

Page: 4 of 152

Contents

		Page
1	COVER PAGE	1
2	TEST SUMMARY	3
3	CONTENTS	4
4		
4		
	4.1 DETAILS OF E.U.T.	
	4.2 DESCRIPTION OF SUPPORT UNITS	6
	4.3 MEASUREMENT UNCERTAINTY	
	4.4 TEST LOCATION	
	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	
	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:	
	6.2.2 Conclusion	13
7	RADIO SPECTRUM MATTER TEST RESULTS	15
	7.1 CONDUCTED PEAK OUTPUT POWER	15
	7.1.1 E.U.T. Operation	
	7.1.2 Test Setup Diagram	
	7.1.3 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	
	7.3.1 E.U.T. Operation	
	7.3.2 Test Setup Diagram	
	7.3.3 Measurement Procedure and Data	
	7.4 HOPPING CHANNEL NUMBER	
	7.4.1 E.U.T. Operation	
	7.4.2 Test Setup Diagram	
	7.4.3 Measurement Procedure and Data	21
	7.5 DWELL TIME	
	7.5.1 E.U.T. Operation	
	7.5.2 Test Setup Diagram	
	7.5.3 Measurement Procedure and Data	
	7.6 CONDUCTED BAND EDGES MEASUREMENT	24



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Report No.: SZEM190601521102

Page: 5 of 152

	7.6.1	E.U.T. Operation	25
	7.6.2	Test Setup Diagram	
	7.6.3	Measurement Procedure and Data	
	7.7 C	CONDUCTED SPURIOUS EMISSIONS	27
	7.7.1	E.U.T. Operation	28
	7.7.2	Test Setup Diagram	28
	7.7.3	Measurement Procedure and Data	28
	7.8 F	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	Measurement Procedure and Data	
	7.9 F	RADIATED SPURIOUS EMISSIONS	
	7.9.1	E.U.T. Operation	
	7.9.2	Test Setup Diagram	
	7.9.3	Measurement Procedure and Data	42
8	PHOT	OGRAPHS	59
	8.1 T	EST SETUP	59
		UT CONSTRUCTIONAL DETAILS (EUT PHOTOS)	
9	APPEI	NDIX	60
	9.1 A	APPENDIX 15.247	60
	9.1.1	Appendix 15.247-Left Ear	60
	9.1.2	Appendix 15.247-Right Ear	107-152



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Report No.: SZEM190601521102

Page: 6 of 152

General Information

Details of E.U.T.

Earphone: DC 3.7V Rechargeable Batteries;
Charging Case: DC3.7V rechargeable battery can be charged by Micro USB port
2402MHz to 2480MHz
V5.0
Frequency Hopping Spread Spectrum(FHSS)
GFSK, π/4DQPSK, 8DPSK
79
1MHz
Monopole
0.09dBi

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 ⁻⁸
2	Duty cycle	± 0.37%
3	Occupied Bandwidth	± 3%
4	RF conducted power	± 0.75dB
5	Conducted Spurious emissions	± 0.75dB
6	DE Dadiated newer	± 4.5dB (Below 1GHz)
	RF Radiated power	± 4.8dB (Above 1GHz)
7	Dadiated Couries and advantage	± 4.5dB (Below 1GHz)
/	Radiated Spurious emission test	± 4.8dB (Above 1GHz)
8	Temperature test	± 1 ℃
9	Humidity test	± 3%
10	Supply voltages	± 1.5%
11	Time	± 3%



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Report No.: SZEM190601521102

Page: 7 of 152

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.

VCCI

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

Abnormalities from Standard Conditions

None





Report No.: SZEM190601521102

Page: 8 of 152

Equipment List

Conducted Peak Output Power						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2024-06-12	
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2018-09-25	2019-09-24	
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2019-04-01	2020-03-31	
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-01	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
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2024-06-12
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2018-09-25	2019-09-24
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2019-04-01	2020-03-31
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	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	
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2024-06-12	
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2018-09-25	2019-09-24	
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2019-04-01	2020-03-31	
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-01	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.: SZEM190601521102

Page: 9 of 152

Hopping Channel Number							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2024-06-12		
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2018-09-25	2019-09-24		
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2019-04-01	2020-03-31		
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM031-01	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
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2024-06-12
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2018-09-25	2019-09-24
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2019-04-01	2020-03-31
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	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
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2024-06-12
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2018-09-25	2019-09-24
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2019-04-01	2020-03-31
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	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.: SZEM190601521102

Page: 10 of 152

Conducted Spurious Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2024-06-12
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2018-09-25	2019-09-24
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2019-04-01	2020-03-31
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	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

Radiated Emissions which fall in the restricted bands					
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	2019-04-12	2020-04-11
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 (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2018-11-12	2019-11-11
Pre-amplifier(18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2019-04-01	2020-03-31
Pre-amplifier (26GHz-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2019-04-01	2020-03-31
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

Radiated Spurious Emissions					
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



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Report No.: SZEM190601521102

Page: 11 of 152

EXA Spectrum Analyzer	AgilentTechnologies Inc	N9010A	SEM004-12	2019-04-12	2020-04-11
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 (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2018-11-12	2019-11-11
Pre-amplifier(18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2019-04-01	2020-03-31
Pre-amplifier (26GHz-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2019-04-01	2020-03-31
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
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2017-08-05	2020-08-04
MXE EMI Receiver (20Hz-8.4GHz)	Agilent Technologies	N9038A	SEM004-05	2018-09-25	2019-09-24
BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2017-06-27	2020-06-26
Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEM005-01	2019-04-01	2020-03-31
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2018-07-12	2019-07-11

General used equipment					
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	2019-04-04	2020-04-03



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Report No.: SZEM190601521102

Page: 12 of 152

Radio Spectrum Technical Requirement 6

Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

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 is 0.09dBi.

Antenna location: Refer to Appendix(Internal photos)





Report No.: SZEM190601521102

Page: 13 of 152

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

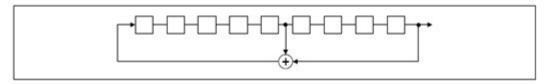
An example of Pseudorandom Frequency Hopping Sequence as follow:





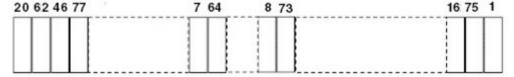
Report No.: SZEM190601521102

Page: 14 of 152



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.





Report No.: SZEM190601521102

Page: 15 of 152

7 **Radio Spectrum Matter Test Results**

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





Report No.: SZEM190601521102

Page: 16 of 152

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24.4 °C Atmospheric Pressure: 1000 mbar Humidity: 43.7 % RH

Pretest these modes to find the worst case: b:TX non-Hop mode(Left Ear) 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.

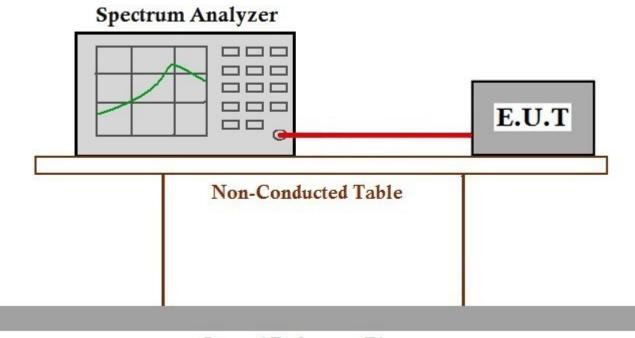
f:TX_non-Hop mode(Right Ear)_Keep the EUT in continuously transmitting mode with GFSK modulation, $\pi/4DQPSK$ modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

The worst case for final test:

b:TX_non-Hop mode(Left Ear)_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.

f:TX non-Hop mode(Right Ear) 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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Report No.: SZEM190601521102

Page: 17 of 152

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:

Atmospheric Pressure: 1000 mbar Temperature: 24.4 °C Humidity: 43.7 % RH

Pretest these modes to find the worst case:

b:TX non-Hop mode(Left Ear) 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.

f:TX_non-Hop mode(Right Ear)_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 non-Hop mode(Left Ear) 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.

f:TX non-Hop mode(Right Ear) 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

Spectrum Analyzer E.U.T Non-Conducted Table

Ground Reference Plane

7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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Report No.: SZEM190601521102

Page: 18 of 152

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





Report No.: SZEM190601521102

Page: 19 of 152

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 24.4 °C Atmospheric Pressure: 1000 mbar Humidity: 43.7 % RH

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

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

> e:TX_Hop mode(Right Ear)_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:

a:TX_Hop mode(Left Ear)_Keep the EUT in frequency hopping mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been

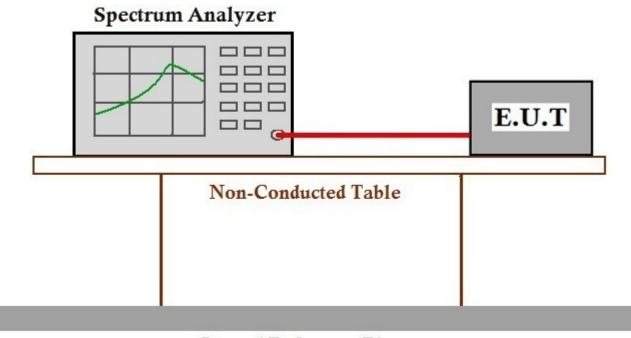
tested and only the data of worst case is recorded in the report.

e:TX Hop mode(Right Ear) 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.: SZEM190601521102

Page: 20 of 152

7.4 Hopping Channel Number

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

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

Limit:

Frequency range(MHz) Number of hopping channels (minimum	
000.000	50 for 20dB bandwidth <250kHz
902-928	25 for 20dB bandwidth ≥250kHz
2400-2483.5	15
5725-5850	75



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Report No.: SZEM190601521102

Page: 21 of 152

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 24.4 °C Atmospheric Pressure: 1000 mbar Humidity: 43.7 % RH

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

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

> e:TX_Hop mode(Right Ear)_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:

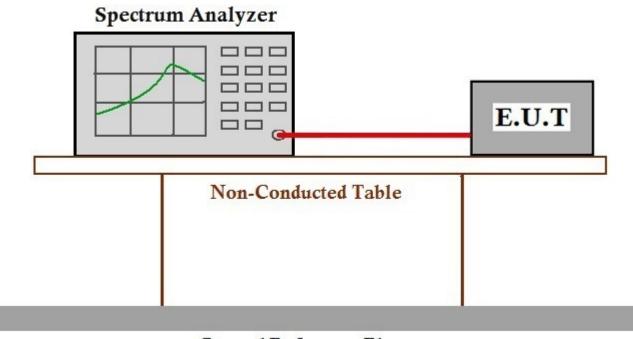
a:TX_Hop mode(Left Ear)_Keep the EUT in frequency hopping mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been

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

e:TX Hop mode(Right Ear) 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



Ground Reference Plane

7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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Page: 22 of 152

7.5 Dwell Time

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

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

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	





Report No.: SZEM190601521102

Page: 23 of 152

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 24.4 °C Atmospheric Pressure: 1000 mbar Humidity: 43.7 % RH

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

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

> e:TX_Hop mode(Right Ear)_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:

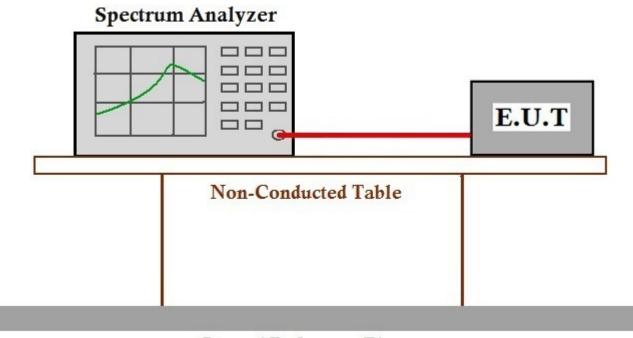
a:TX_Hop mode(Left Ear)_Keep the EUT in frequency hopping mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been

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

e:TX Hop mode(Right Ear) 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.: SZEM190601521102

Page: 24 of 152

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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Report No.: SZEM190601521102

Page: 25 of 152

7.6.1 E.U.T. Operation

Operating Environment:

Humidity: 43.7 % RH Temperature: 24.4 °C Atmospheric Pressure: 1000 mbar

Pretest these modes to find the worst case: a:TX Hop mode(Left Ear) 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.

b:TX_non-Hop mode(Left Ear)_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.

e:TX_Hop mode(Right Ear)_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_non-Hop mode(Right Ear)_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:

a:TX_Hop mode(Left Ear)_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.

b:TX non-Hop mode(Left Ear) 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.

e:TX Hop mode(Right Ear) 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_non-Hop mode(Right Ear)_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.

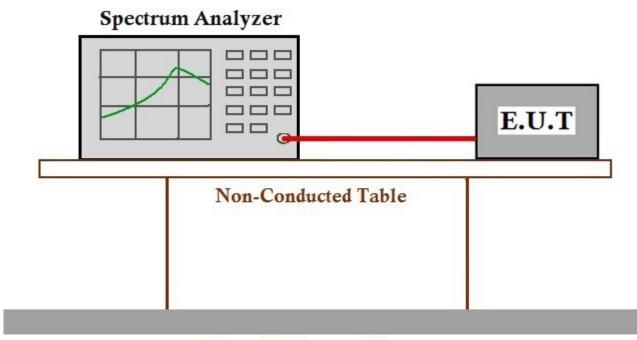




Report No.: SZEM190601521102

Page: 26 of 152

7.6.2 Test Setup Diagram



Ground Reference Plane

7.6.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247





Report No.: SZEM190601521102

Page: 27 of 152

7.7 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d) 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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Report No.: SZEM190601521102

Page: 28 of 152

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 24.4 °C Atmospheric Pressure: 1000 mbar Humidity: 43.7 % RH

Pretest these modes to find the worst case: b:TX non-Hop mode(Left Ear) 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.

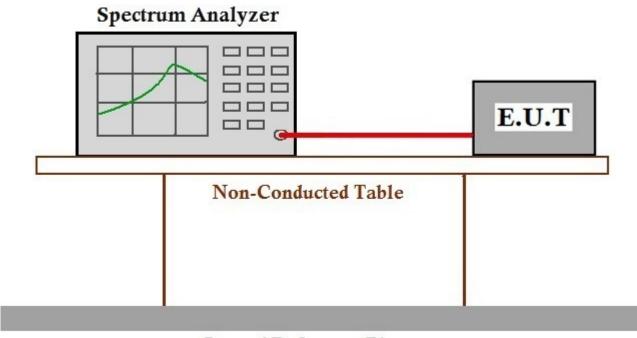
f:TX_non-Hop mode(Right Ear)_Keep the EUT in continuously transmitting mode with GFSK modulation, $\pi/4DQPSK$ modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

The worst case for final test:

b:TX_non-Hop mode(Left Ear)_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.

f:TX non-Hop mode(Right Ear) 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.: SZEM190601521102

Page: 29 of 152

7.8 Radiated Emissions which fall in the restricted bands

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

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

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.: SZEM190601521102

Page: 30 of 152

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 21.6 °C Atmospheric Pressure: 1000 mbar Humidity: 72.2 % RH

Pretest these modes to find the worst case: b:TX non-Hop mode(Left Ear) 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.

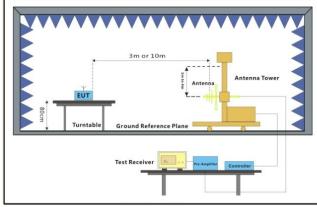
f:TX_non-Hop mode(Right Ear)_Keep the EUT in continuously transmitting mode with GFSK modulation, $\pi/4DQPSK$ modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

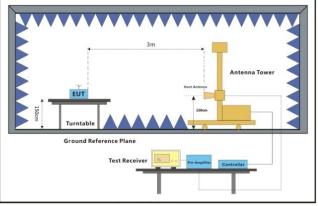
The worst case for final test:

b:TX_non-Hop mode(Left Ear)_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.

f:TX non-Hop mode(Right Ear) 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.

7.8.2 Test Setup Diagram





30MHz-1GHz Above 1GHz



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Page: 31 of 152

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 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: 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.



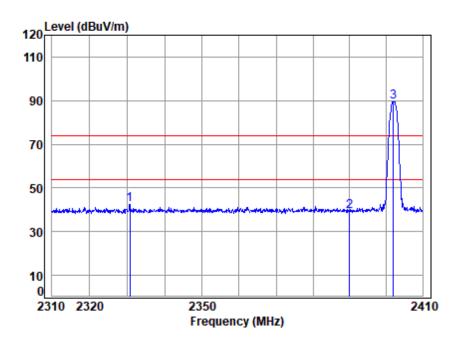


Report No.: SZEM190601521102

Page: 32 of 152

For Left Ear:

Mode:b; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 15211CR/15212CR Job No Mode : 2402 Band edge

Note : BT

: Left

		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	2330.650	5.39	28.42	41.15	49.95	42.61	74.00	-31.39	peak	
2	2390.000	5.47	28.52	41.17	46.34	39.16	74.00	-34.84	peak	
3 *	2402.000	5.49	28.54	41.18	96.75	89.60	74.00	15.60	peak	



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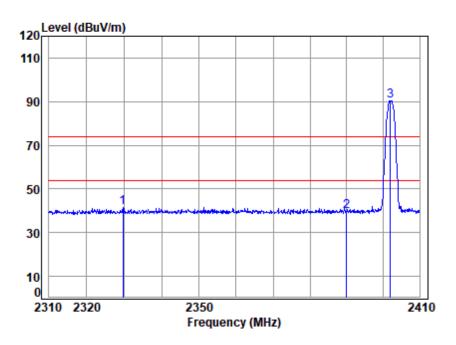
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Report No.: SZEM190601521102

Page: 33 of 152

Mode:b; Polarization:Vertical; Modulation:GFSK; ; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 15211CR/15212CR Mode : 2402 Band edge

Note : BT

: Left

		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	2329.662	5.39	28.42	41.15	48.76	41.42	74.00	-32.58	peak	
	2390.000								-	
3 :	* 2402.000	5.49	28.54	41.18	97.57	90.42	74.00	16.42	peak	



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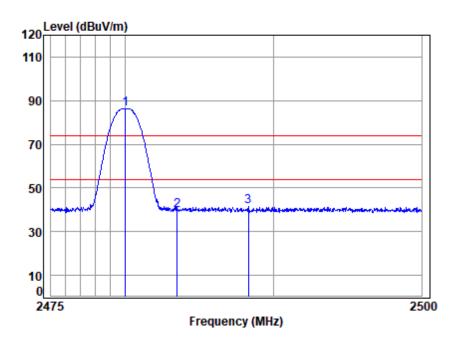
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Report No.: SZEM190601521102

Page: 34 of 152

Mode:b; Polarization:Horizontal; Modulation:GFSK; ; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 15211CR/15212CR Job No Mode : 2480 Band edge

Note : BT

: Left

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2	2480.000 2483.500 2488.294	5.60	28.67	41.21	46.74	39.80	74.00	-34.20	peak



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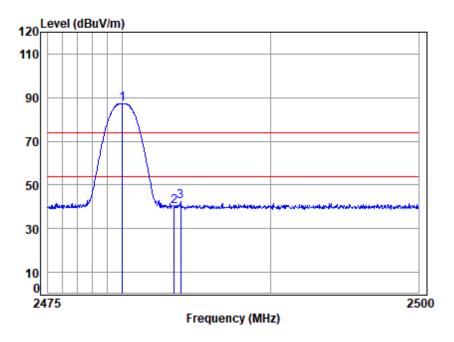
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Report No.: SZEM190601521102

Page: 35 of 152

Mode:b; Polarization:Vertical; Modulation:GFSK; ; Channel:High



Site : chamber Condition: 3m VERTICAL

: 15211CR/15212CR Job No Mode : 2480 Band edge

Note : BT

: Left

		_							
		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	94.31	87.36	74.00	13.36	peak
2	2483.500	5.60	28.67	41.21	46.90	39.96	74.00	-34.04	peak
3	2483.921	5.60	28.67	41.21	49.27	42.33	74.00	-31.67	peak



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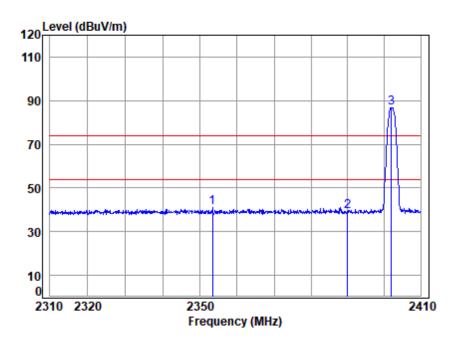


Report No.: SZEM190601521102

Page: 36 of 152

For Right Ear:

Mode:f; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 15211CR/15212CR Job No Mode : 2402 Band edge

Note : BT

: Right

	Freq			Preamp Factor					Remark
•	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2353.379	5.42	28.46	41.16	48.41	41.13	74.00	-32.87	peak
2	2390.000	5.47	28.52	41.17	46.22	39.04	74.00	-34.96	peak
3 *	2402.000	5.49	28.54	41.18	94.04	86.89	74.00	12.89	peak



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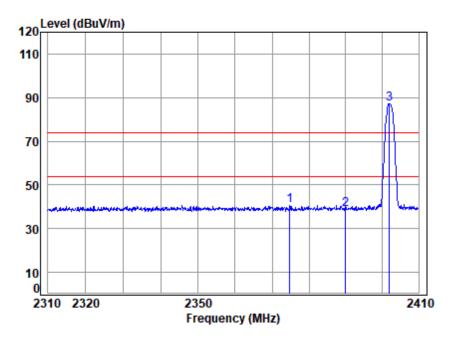
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Report No.: SZEM190601521102

Page: 37 of 152

Mode:f; Polarization:Vertical; Modulation:GFSK; ; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 15211CR/15212CR Mode : 2402 Band edge

Note : BT

: Right

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 2374.718 2 2390.000 3 * 2402.000	5.47	28.52	41.17	45.83	38.65	74.00	-35.35	peak



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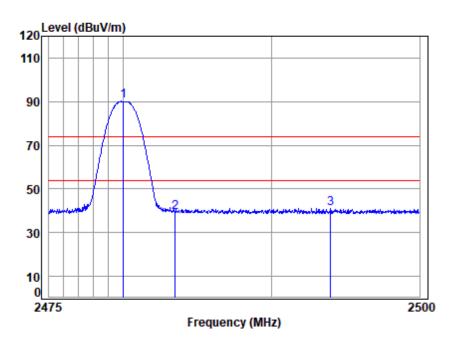
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Report No.: SZEM190601521102

Page: 38 of 152

Mode:f; Polarization:Horizontal; Modulation:GFSK; ; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 15211CR/15212CR Job No Mode : 2480 Band edge

Note : BT

: Right

		Pc							
		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	97.07	90.12	74.00	16.12	peak
2	2483.500	5.60	28.67	41.21	46.20	39.26	74.00	-34.74	peak
	2493.977								•



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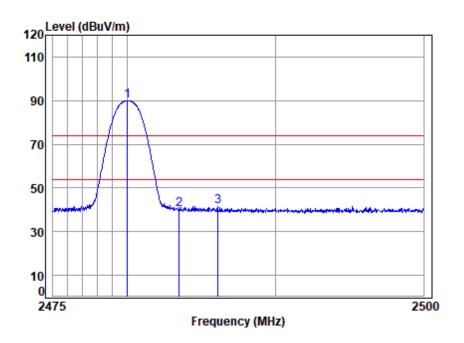
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Report No.: SZEM190601521102

Page: 39 of 152

Mode:f; Polarization:Vertical; Modulation:GFSK; ; Channel:High



Site : chamber Condition: 3m VERTICAL

: 15211CR/15212CR Job No Mode : 2480 Band edge

Note : BT

: Right

6										
			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	96.69	89.74	74.00	15.74	peak
	2	2483.500	5.60	28.67	41.21	47.22	40.28	74.00	-33.72	peak
		2486.094								



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Report No.: SZEM190601521102

Page: 40 of 152

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.: SZEM190601521102

Page: 41 of 152

7.9.1 E.U.T. Operation

Operating Environment:

Humidity: 55 % RH Temperature: 24.7 °C Atmospheric Pressure: 1010 mbar

Pretest these modes to find the worst case: b:TX non-Hop mode(Left Ear) 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.

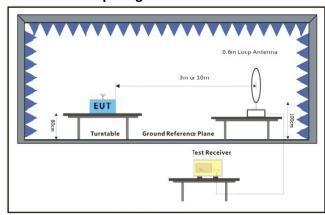
f:TX_non-Hop mode(Right Ear)_Keep the EUT in continuously transmitting mode with GFSK modulation, $\pi/4DQPSK$ modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

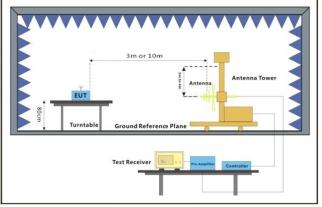
The worst case for final test:

b:TX_non-Hop mode(Left Ear)_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.

f:TX non-Hop mode(Right Ear) 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.

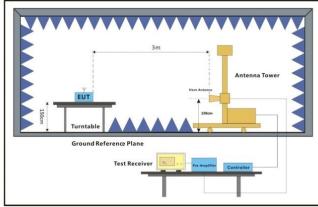
7.9.2 Test Setup Diagram





Below 30MHz

30MHz-1GHz



Above 1GHz



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Report No.: SZEM190601521102

Page: 42 of 152

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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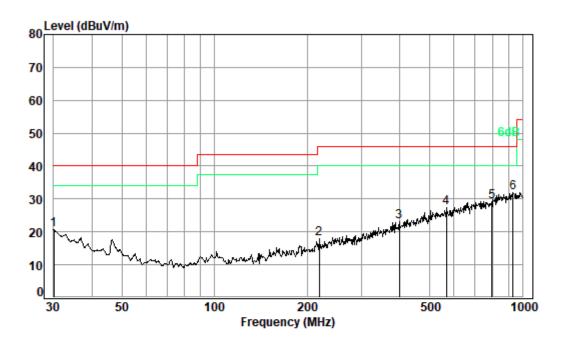


Report No.: SZEM190601521102

Page: 43 of 152

For Left Ear: 30MHz~1GHz QP value:

Mode: b; Polarization: Horizontal;



Condition: 3m HORIZONTAL

Job No. : 15211CR

Test mode: b

	Freq			Preamp Factor				Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.11	0.60	22.44	27.73	25.32	20.63	40.00	-19.37
2	219.08	1.51	17.17	27.10	26.36	17.94	46.00	-28.06
3	399.03	2.20	22.38	27.42	25.91	23.07	46.00	-22.93
4	566.62	2.67	25.97	28.06	26.95	27.53	46.00	-18.47
5	796.18	3.19	28.48	27.73	25.36	29.30	46.00	-16.70
6 pp	932.27	3.63	29.97	27.16	25.58	32.02	46.00	-13.98



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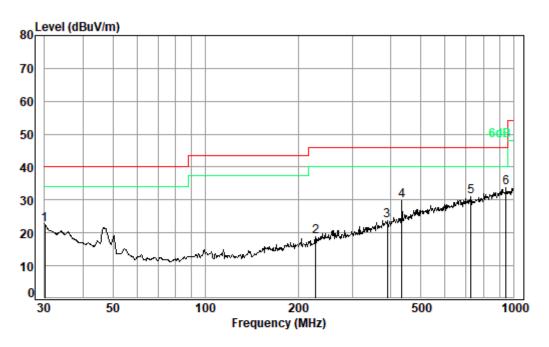
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Report No.: SZEM190601521102

Page: 44 of 152

Mode :b; Polarization: Vertical



Condition: 3m VERTICAL Job No. : 15211CR

Test mode: b

	Freq				Read Level Level			Over Limit
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.11	0.60	22.44	27.73	27.18	22.49	40.00	-17.51
2	228.49	1.56	17.90	27.08	26.59	18.97	46.00	-27.03
3	389.35	2.17	22.14	27.37	26.85	23.79	46.00	-22.21
4	434.07	2.35	23.21	27.57	31.92	29.91	46.00	-16.09
5	726.81	2.99	28.07	27.87	27.89	31.08	46.00	-14.92
6 pp	945.44	3.65	30.03	27.11	27.05	33.62	46.00	-12.38



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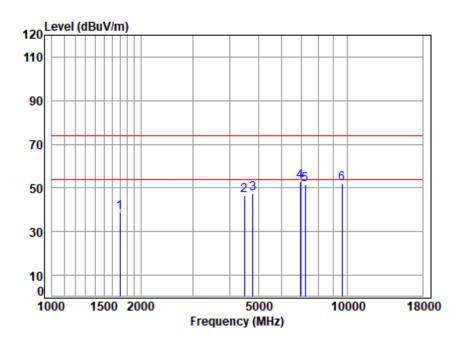


Report No.: SZEM190601521102

Page: 45 of 152

Above 1GHz

Mode:b; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 15211CR/15212CR

Mode : 2402 TX RSE

Note : BT

: Left

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
						dD: \/ /	dD: /////		
	MHz	dB	ub/m	dB	abuv	ubuv/m	ubuv/m	dB	
1	1702.042	5.23	26.68	40.83	47.78	38.86	74.00	-35.14	peak
2	4482.150	7.54	33.60	43.29	48.69	46.54	74.00	-27.46	peak
3	4804.000	7.89	34.16	43.61	49.09	47.53	74.00	-26.47	peak
4	6934.778	10.31	36.32	42.06	48.37	52.94	74.00	-21.06	peak
5	7206.000	10.08	36.42	41.86	46.84	51.48	74.00	-22.52	peak
6	9608.000	10.75	37.52	38.43	42.40	52.24	74.00	-21.76	peak



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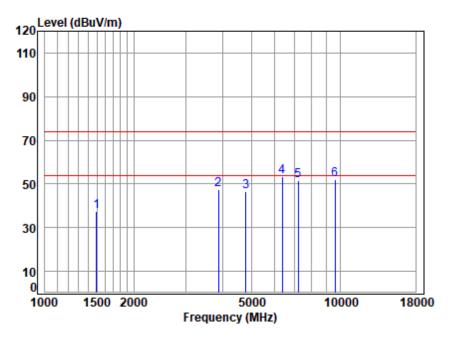
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Report No.: SZEM190601521102

Page: 46 of 152

Mode:b; Polarization:Vertical; Modulation:GFSK; ; Channel:Low



Site : chamber Condition: 3m VERTICAL

: 15211CR/15212CR Job No Mode : 2402 TX RSE

Note : BT

: Left

	. Le								
		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	1494.455	5.46	25.78	40.70	46.77	37.31	74.00	-36.69	peak
2	3879.027	6.86	33.28	42.61	49.84	47.37	74.00	-26.63	peak
3	4804.000	7.89	34.16	43.61	48.22	46.66	74.00	-27.34	peak
4	6377.195	11.31	35.00	42.51	49.76	53.56	74.00	-20.44	peak
5	7206.000	10.08	36.42	41.86	47.03	51.67	74.00	-22.33	peak
6	9608.000	10.75	37.52	38.43	42.02	51.86	74.00	-22.14	peak



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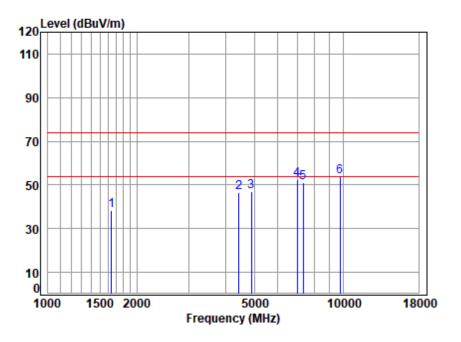
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Report No.: SZEM190601521102

Page: 47 of 152

Mode:b; Polarization:Horizontal; Modulation:GFSK; ; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL : 15211CR/15212CR Job No

Mode : 2441 TX RSE

Note : BT

: Left

		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	1639.274	5.30	26.42	40.79	47.44	38.37	74.00	-35.63	peak
2	4430.628	7.48	33.60	43.23	48.55	46.40	74.00	-27.60	peak
3	4882.000	7.97	34.30	43.69	48.31	46.89	74.00	-27.11	peak
4	6974.982	10.20	36.43	42.03	47.68	52.28	74.00	-21.72	peak
5	7323.000	10.05	36.37	41.77	46.66	51.31	74.00	-22.69	peak
6	9764.000	10.82	37.55	38.17	43.45	53.65	74.00	-20.35	peak



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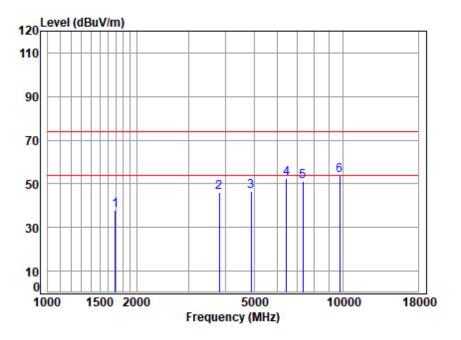
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Report No.: SZEM190601521102

Page: 48 of 152

Mode:b; Polarization:Vertical; Modulation:GFSK; ; Channel:middle



Site : chamber Condition: 3m VERTICAL : 15211CR/15212CR Job No

Mode : 2441 TX RSE

Note : BT

: Left

		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	
4	4600 004	F 24	26.64	40.03	47.00	20.07	74.00	35 03	
1	1692.231	5.24	26.64	40.83	47.02	38.07	74.00	-35.93	реак
2	3812.336	6.79	33.10	42.53	48.88	46.24	74.00	-27.76	peak
3	4882.000	7.97	34.30	43.69	47.93	46.51	74.00	-27.49	peak
4	6432.732	11.41	35.05	42.46	48.56	52.56	74.00	-21.44	peak
5	7323.000	10.05	36.37	41.77	46.29	50.94	74.00	-23.06	peak
6	9764.000	10.82	37.55	38.17	43.44	53.64	74.00	-20.36	peak



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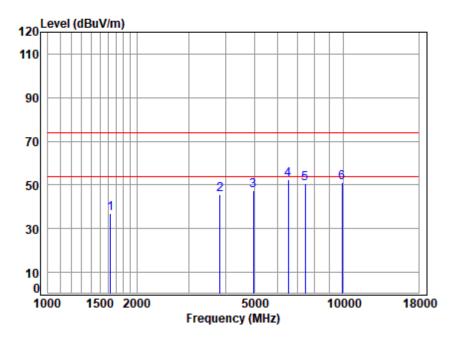
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Report No.: SZEM190601521102

Page: 49 of 152

Mode:b; Polarization:Horizontal; Modulation:GFSK; ; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 15211CR/15212CR Job No

Mode : 2480 TX RSE

Note : BT

: Left

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
						dD: \/ / / / /	dD: ////		
	MHz	dB	ub/m	dB	abuv	ubuv/m	ubuv/m	dB	
1	1629.825	5.31	26.38	40.79	45.91	36.81	74.00	-37.19	peak
2	3823.371	6.80	33.13	42.54	48.17	45.56	74.00	-28.44	peak
3	4960.000	8.05	34.43	43.76	48.74	47.46	74.00	-26.54	peak
4	6507.536	11.52	35.12	42.40	48.06	52.30	74.00	-21.70	peak
5	7440.000	10.02	36.32	41.69	46.13	50.78	74.00	-23.22	peak
6	9920.000	10.90	37.58	37.93	40.78	51.33	74.00	-22.67	peak



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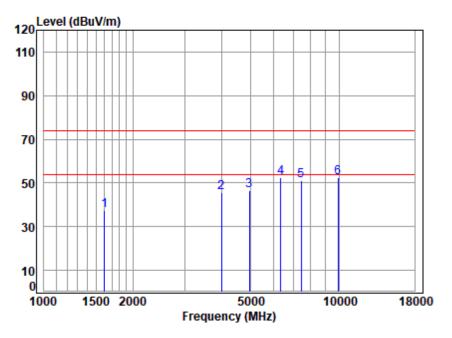
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Report No.: SZEM190601521102

Page: 50 of 152

Mode:b; Polarization:Vertical; Modulation:GFSK; ; Channel:High



Site : chamber Condition: 3m VERTICAL

: 15211CR/15212CR Job No Mode : 2480 TX RSE

Note : BT

: Left

	. Le									
		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	1606.441	5.34	26.28	40.77	46.50	37.35	74.00	-36.65	peak	
2	3992.781	6.97	33.58	42.74	47.77	45.58	74.00	-28.42	peak	
3	4960.000	8.05	34.43	43.76	47.70	46.42	74.00	-27.58	peak	
4	6340.436	11.24	34.98	42.54	48.90	52.58	74.00	-21.42	peak	
5	7440.000	10.02	36.32	41.69	46.45	51.10	74.00	-22.90	peak	
6	9920.000	10.90	37.58	37.93	41.83	52.38	74.00	-21.62	peak	



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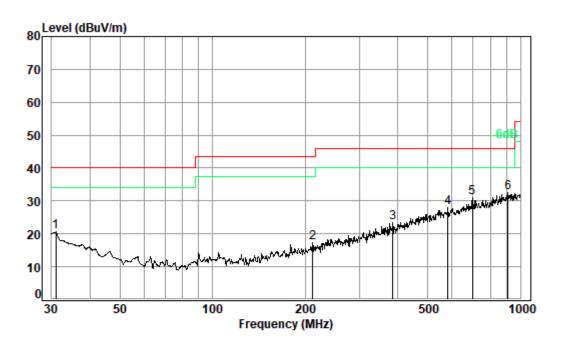


Report No.: SZEM190601521102

Page: 51 of 152

For Right Ear: 30MHz~1GHz QP value:

Mode: f; Polarization: Horizontal;



Condition: 3m HORIZONTAL

Job No. : 15211CR

Test mode: f

	Freq			Preamp Factor				Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.96	0.60	21.95	27.73	25.77	20.59	40.00	-19.41
2	211.53	1.47	16.91	27.13	26.01	17.26	43.50	-26.24
3	385.28	2.16	22.04	27.35	26.53	23.38	46.00	-22.62
4	580.70	2.68	26.24	28.11	27.29	28.10	46.00	-17.90
5	699.30	2.90	27.89	27.93	28.22	31.08	46.00	-14.92
6 pp	912.86	3.61	29.87	27.24	26.43	32.67	46.00	-13.33



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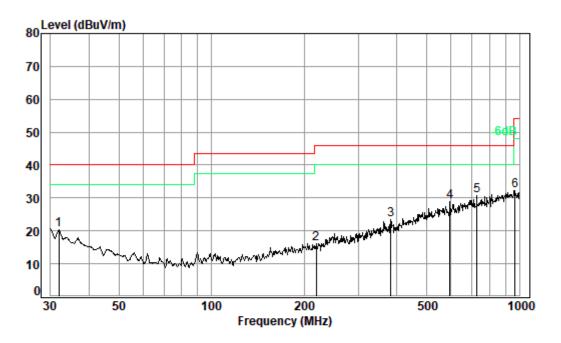
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Report No.: SZEM190601521102

Page: 52 of 152

Mode :f; Polarization: Vertical



Condition: 3m VERTICAL : 15211CR Job No.

Test mode: f

	Freq			Preamp Factor				Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	31.95	0.60	21.40	27.72	26.19	20.47	40.00	-19.53
2	219.08	1.51	17.17	27.10	24.65	16.23	46.00	-29.77
3	382.59	2.15	21.97	27.34	26.71	23.49	46.00	-22.51
4	595.13	2.70	26.51	28.15	27.76	28.82	46.00	-17.18
5 pp	726.81	2.99	28.07	27.87	27.52	30.71	46.00	-15.29
6	968.93	3.67	30.15	27.02	25.30	32.10	54.00	-21.90



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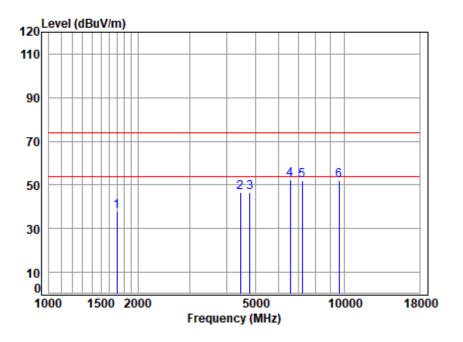


Report No.: SZEM190601521102

Page: 53 of 152

Above 1GHz

Mode:f; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 15211CR/15212CR Job No

Mode : 2402 TX RSE

Note : BT

: Right

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
1	1702.042	5.23	26.68	40.83	46.70	37.78	74.00	-36.22	peak
2	4456.315	7.51	33.60	43.26	48.88	46.73	74.00	-27.27	peak
3	4804.000	7.89	34.16	43.61	48.15	46.59	74.00	-27.41	peak
4	6564.209	11.35	35.29	42.35	48.14	52.43	74.00	-21.57	peak
5	7206.000	10.08	36.42	41.86	47.59	52.23	74.00	-21.77	peak
6	9608.000	10.75	37.52	38.43	42.20	52.04	74.00	-21.96	peak



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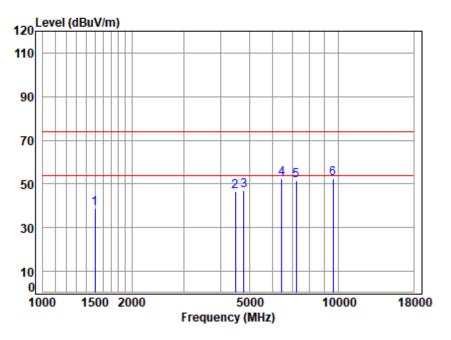
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Report No.: SZEM190601521102

Page: 54 of 152

Mode:f; Polarization:Vertical; Modulation:GFSK; ; Channel:Low



Site : chamber Condition: 3m VERTICAL : 15211CR/15212CR Job No

Mode : 2402 TX RSE

Note : BT

: Right

	· ·			Preamp					Damada
	Freq	LOSS	Factor	Factor	revel	rever	Line	Limit	Kemark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1498.781	5.48	25.80	40.71	48.41	38.98	74.00	-35.02	peak
2	4495.125	7.55	33.60	43.30	48.54	46.39	74.00	-27.61	peak
3	4804.000	7.89	34.16	43.61	48.69	47.13	74.00	-26.87	peak
4	6432.732	11.41	35.05	42.46	48.34	52.34	74.00	-21.66	peak
5	7206.000	10.08	36.42	41.86	46.79	51.43	74.00	-22.57	peak
6	9608.000	10.75	37.52	38.43	42.57	52.41	74.00	-21.59	peak



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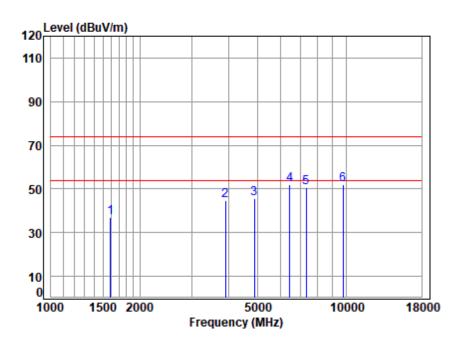
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Report No.: SZEM190601521102

Page: 55 of 152

Mode:f; Polarization:Horizontal; Modulation:GFSK; ; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL : 15211CR/15212CR Job No

Mode : 2441 TX RSE

Note : BT

: Right

	`	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	1592.571	5.36	26.22	40.77	46.09	36.90	74.00	-37.10	peak
2	3901.516	6.88	33.34	42.63	47.08	44.67	74.00	-29.33	peak
3	4882.000	7.97	34.30	43.69	46.89	45.47	74.00	-28.53	peak
4	6432.732	11.41	35.05	42.46	48.06	52.06	74.00	-21.94	peak
5	7323.000	10.05	36.37	41.77	46.18	50.83	74.00	-23.17	peak
6	9764.000	10.82	37.55	38.17	41.94	52.14	74.00	-21.86	peak



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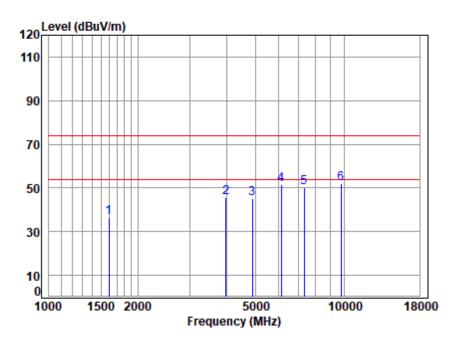
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Report No.: SZEM190601521102

Page: 56 of 152

Mode:f; Polarization:Vertical; Modulation:GFSK; ; Channel:middle



Site : chamber Condition: 3m VERTICAL Job No : 15211CR/15212CR

Mode : 2441 TX RSE

Note : BT

: Right

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1597.181	5.35	26.24	40.77	45.47	36.29	74.00	-37.71	peak
2	3981.257	6.96	33.55	42.73	47.74	45.52	74.00	-28.48	peak
3	4882.000	7.97	34.30	43.69	46.43	45.01	74.00	-28.99	peak
4	6124.292	10.82	34.80	42.72	48.47	51.37	74.00	-22.63	peak
5	7323.000	10.05	36.37	41.77	45.63	50.28	74.00	-23.72	peak
6	9764.000	10.82	37.55	38.17	41.70	51.90	74.00	-22.10	peak



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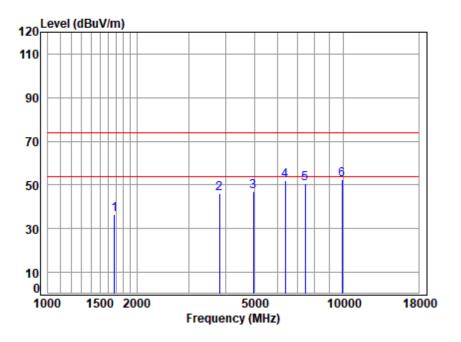
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Report No.: SZEM190601521102

Page: 57 of 152

Mode:f; Polarization:Horizontal; Modulation:GFSK; ; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 15211CR/15212CR Job No

Mode : 2480 TX RSE

Note : BT

: Right

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Kemark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1682.477	5.25	26.60	40.82	45.57	36.60	74.00	-37.40	peak
2	3812.336	6.79	33.10	42.53	48.76	46.12	74.00	-27.88	peak
3	4960.000	8.05	34.43	43.76	48.27	46.99	74.00	-27.01	peak
4	6358.789	11.27	34.99	42.52	48.39	52.13	74.00	-21.87	peak
5	7440.000	10.02	36.32	41.69	45.95	50.60	74.00	-23.40	peak
6	9920.000	10.90	37.58	37.93	42.12	52.67	74.00	-21.33	peak



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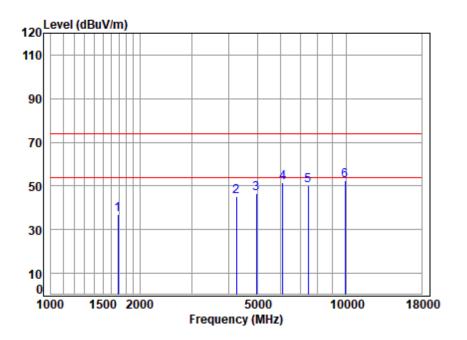
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Report No.: SZEM190601521102

Page: 58 of 152

Mode:f; Polarization:Vertical; Modulation:GFSK; ; Channel:High



Site : chamber Condition: 3m VERTICAL

: 15211CR/15212CR Job No

: 2480 TX RSE

Note : BT

Mode

: Right

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
1	1687.347	5.24	26.62	40.82	45.73	36.77	74.00	-37.23	peak
2	4254.921	7.28	33.60	43.04	47.38	45.22	74.00	-28.78	peak
3	4960.000	8.05	34.43	43.76	47.97	46.69	74.00	-27.31	peak
4	6088.991	10.75	34.77	42.75	48.74	51.51	74.00	-22.49	peak
5	7440.000	10.02	36.32	41.69	45.67	50.32	74.00	-23.68	peak
6	9920.000	10.90	37.58	37.93	41.71	52.26	74.00	-21.74	peak



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Report No.: SZEM190601521102

Page: 59 of 152

8 **Photographs**

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: 60 of 152

Appendix

Appendix 15.247

Appendix 15.247-Left Ear

1.20 dB Bandwidth

Test Mode	Test Channel	EBW[MHz]	Limit[MHz]	Verdict
DH5	2402	0.975		PASS
DH5	2441	1.026		PASS
DH5	2480	1.026		PASS
2DH5	2402	1.377		PASS
2DH5	2441	1.410		PASS
2DH5	2480	1.410		PASS
3DH5	2402	1.365		PASS
3DH5	2441	1.401		PASS
3DH5	2480	1.407		PASS

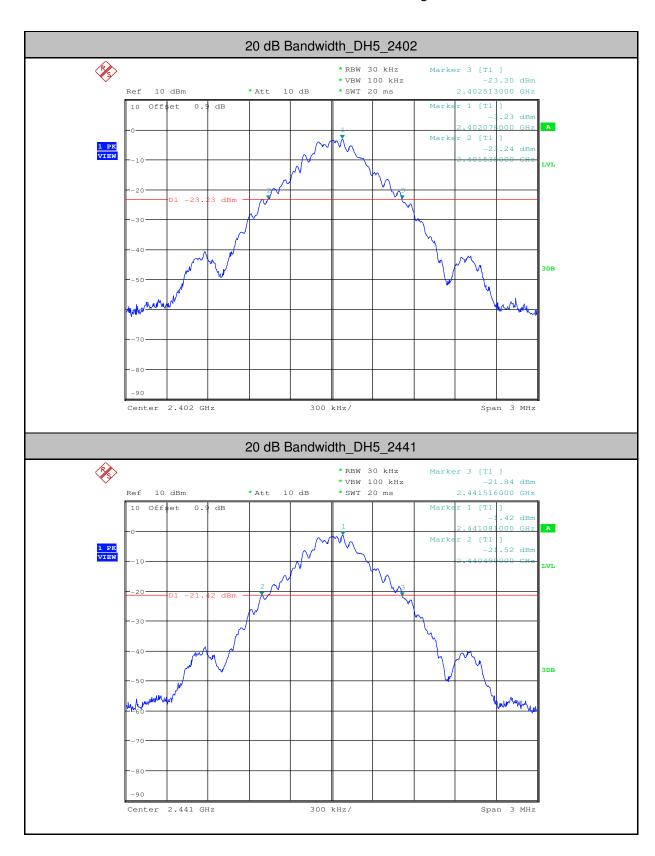


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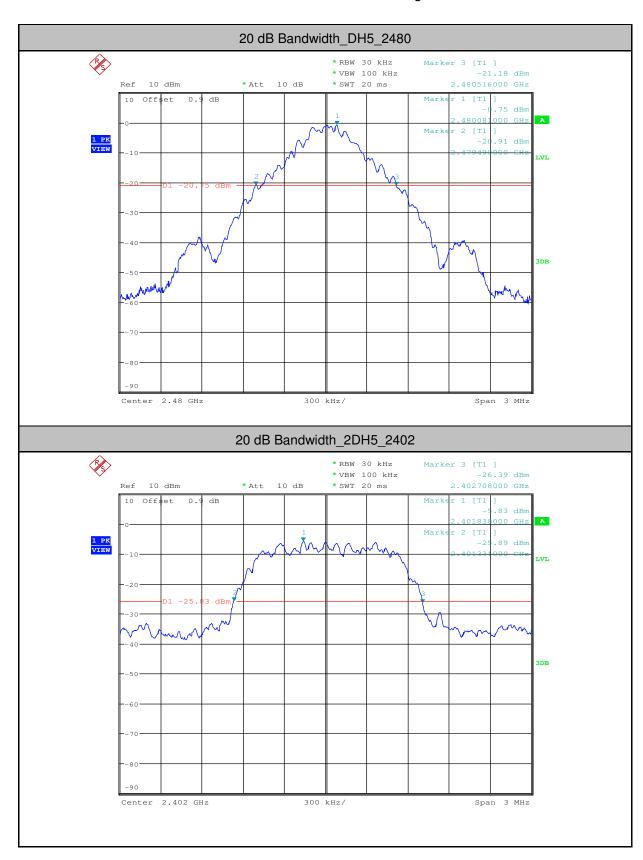
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Page: 62 of 152





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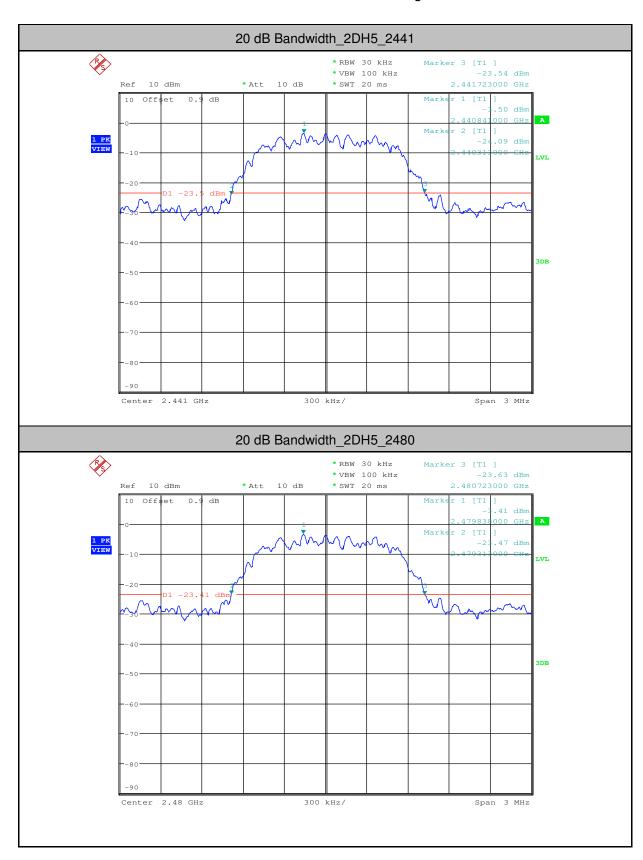
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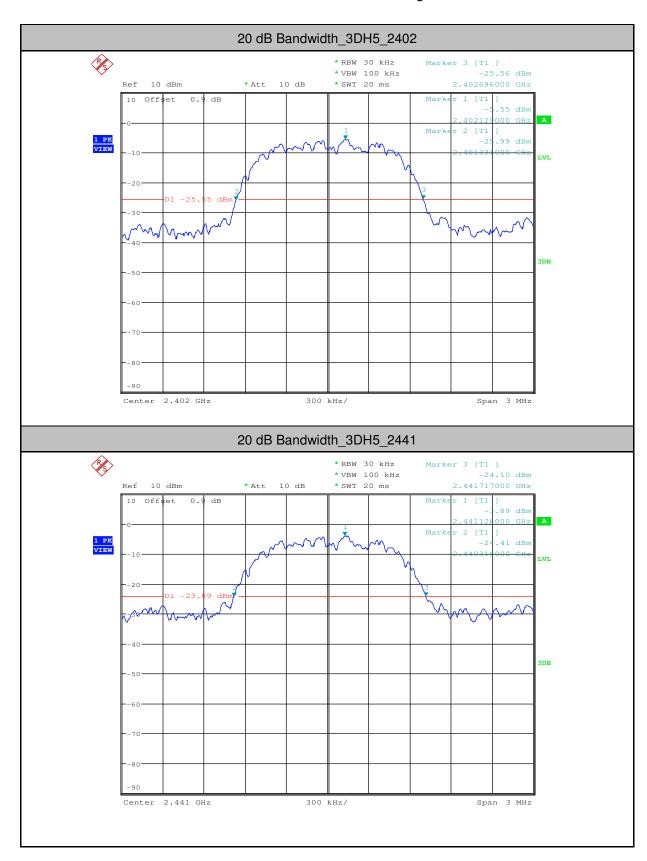
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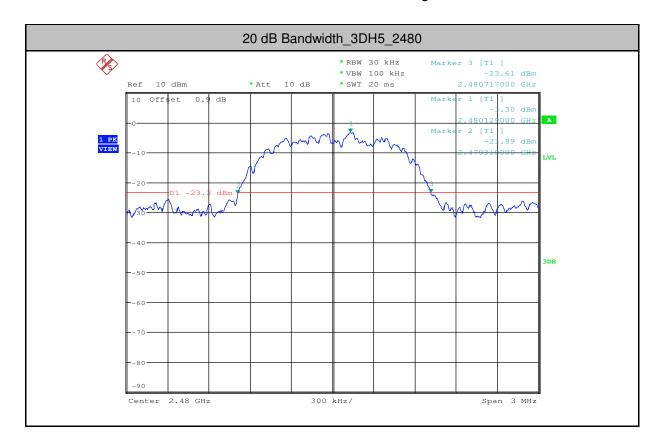
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Report No.: SZEM190601521102

Page: 66 of 152

2.Conducted Peak Output Power

Test Mode	Test Channel	Power[dBm]	Limit[dBm]	Verdict
DH5	2402	-0.04	<=20.97	PASS
DH5	2441	1.75	<=20.97	PASS
DH5	2480	2.41	<=20.97	PASS
2DH5	2402	3.31	<=20.97	PASS
2DH5	2441	3.96	<=20.97	PASS
2DH5	2480	3.87	<=20.97	PASS
3DH5	2402	3.95	<=20.97	PASS
3DH5	2441	3.87	<=20.97	PASS
3DH5	2480	3.78	<=20.97	PASS



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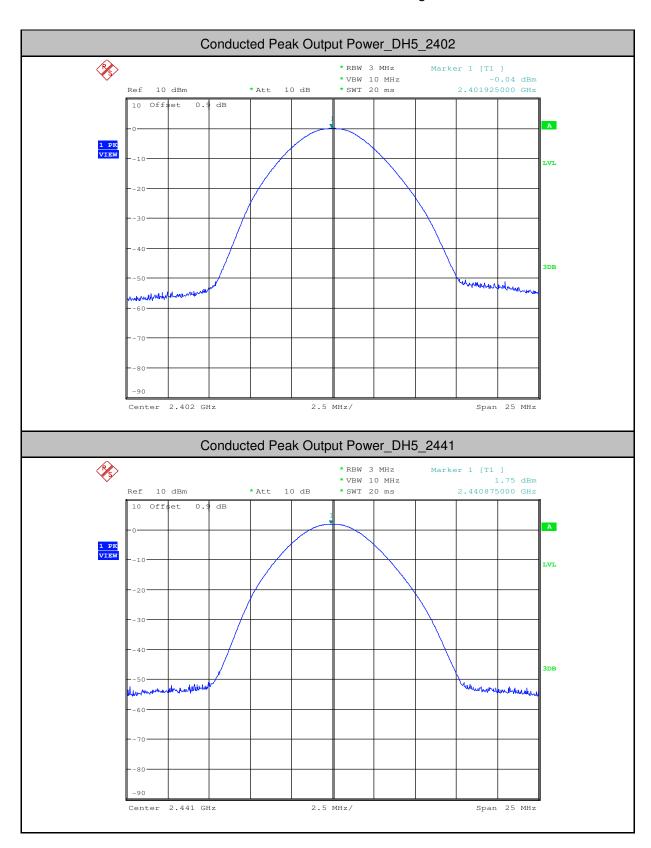
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Page: 67 of 152





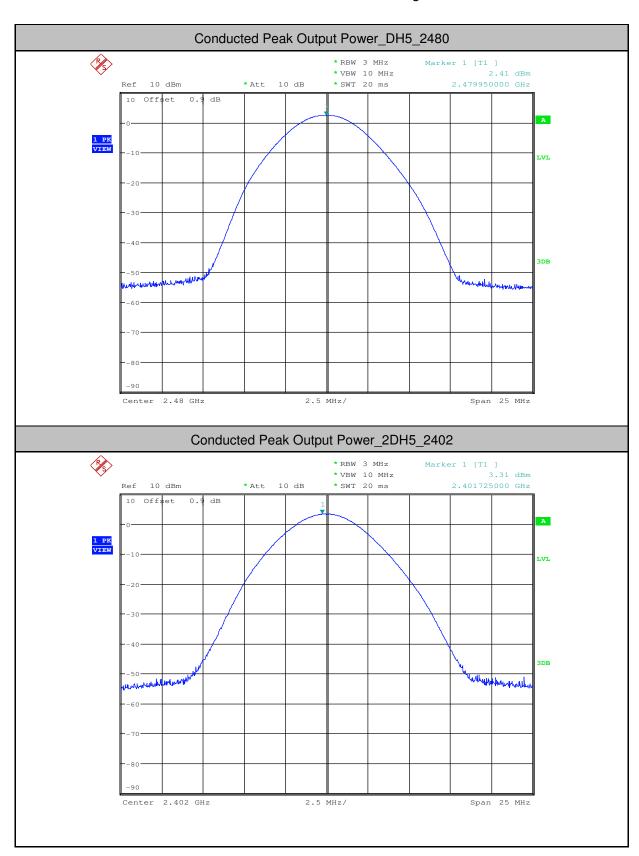
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Report No.: SZEM190601521102

Page: 68 of 152





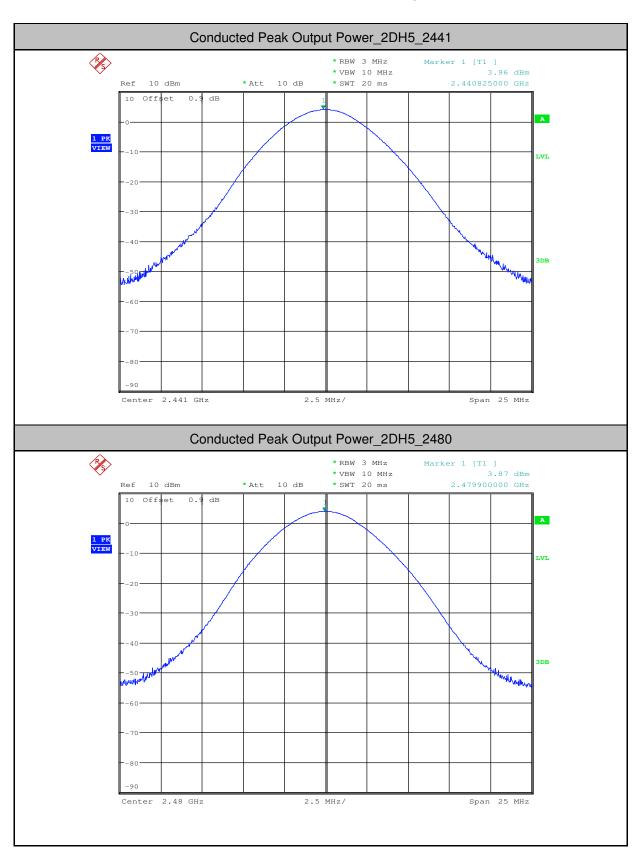
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Report No.: SZEM190601521102

Page: 69 of 152





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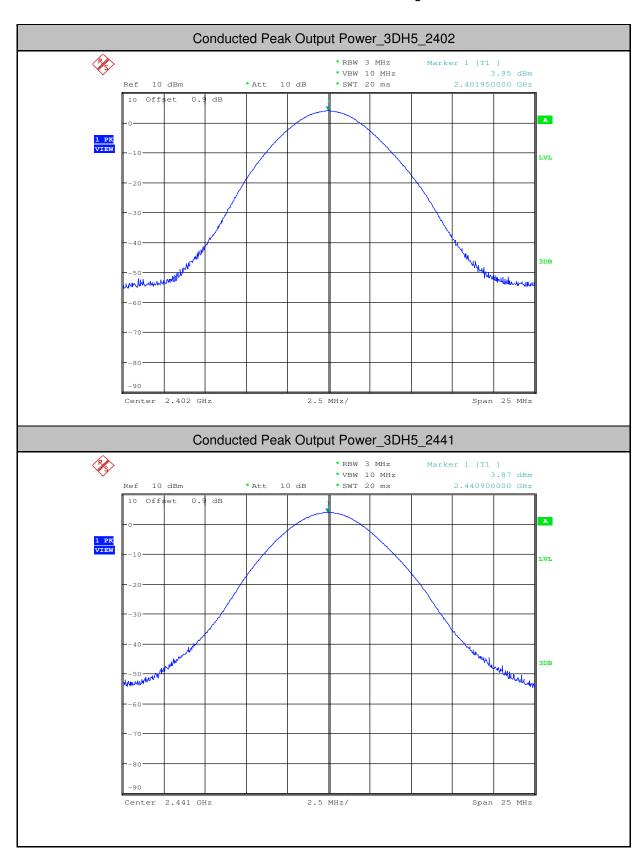
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Report No.: SZEM190601521102

Page: 70 of 152





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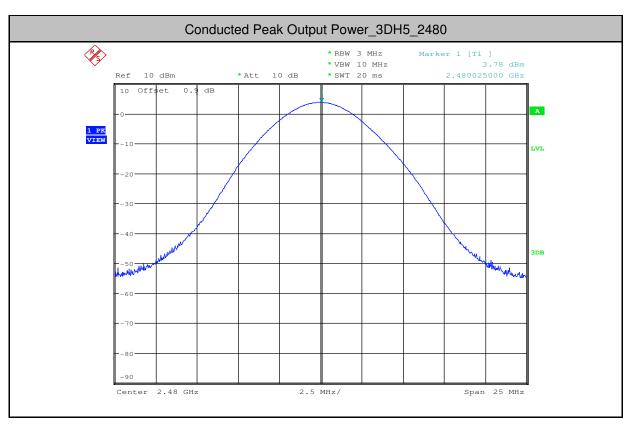
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Report No.: SZEM190601521102

Page: 71 of 152



3. Carrier Frequency Separation

Test Mode	Test Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	2441	1.058	>=0.68	PASS
2DH5	2441	1.019	>=0.94	PASS
3DH5	2441	1.017	>=0.94	PASS



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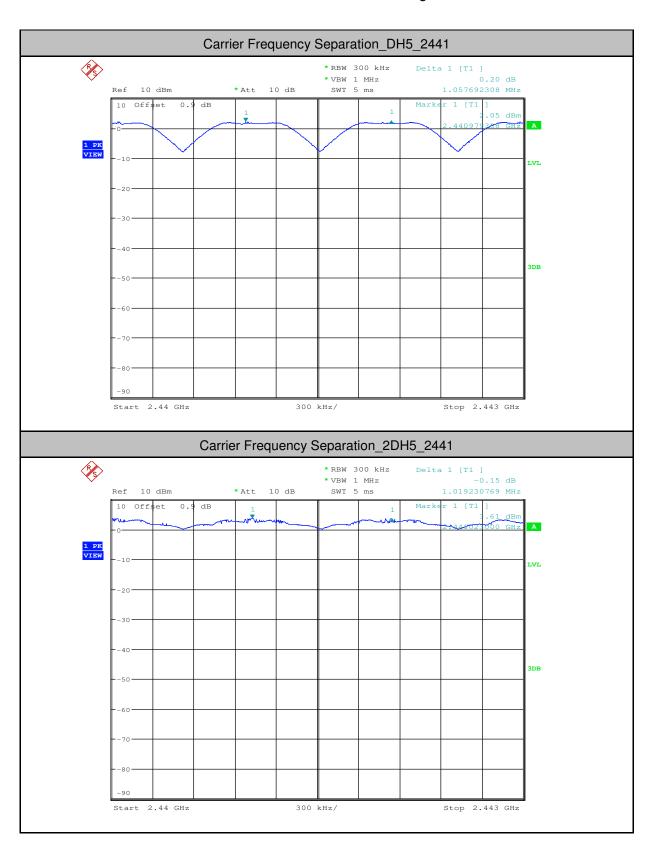
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Report No.: SZEM190601521102

Page: 72 of 152





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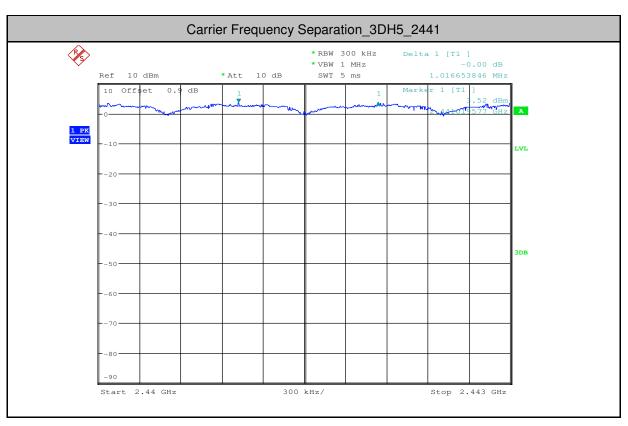
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Report No.: SZEM190601521102

Page: 73 of 152



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	320	0.122	<0.4	PASS
DH3	2402	1.64	190	0.312	<0.4	PASS
DH5	2402	2.89	90	0.26	<0.4	PASS
2DH1	2402	0.38	310	0.118	<0.4	PASS
2DH3	2402	1.64	170	0.279	<0.4	PASS
2DH5	2402	2.89	120	0.347	<0.4	PASS
3DH1	2402	0.38	320	0.122	<0.4	PASS
3DH3	2402	1.65	160	0.264	<0.4	PASS
3DH5	2402	2.89	100	0.289	<0.4	PASS



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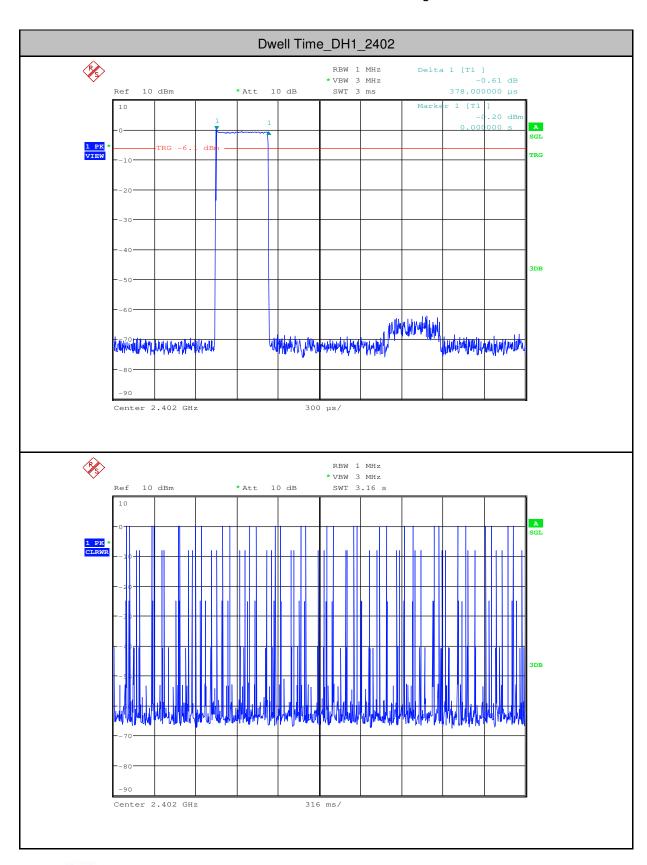
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Report No.: SZEM190601521102

Page: 74 of 152





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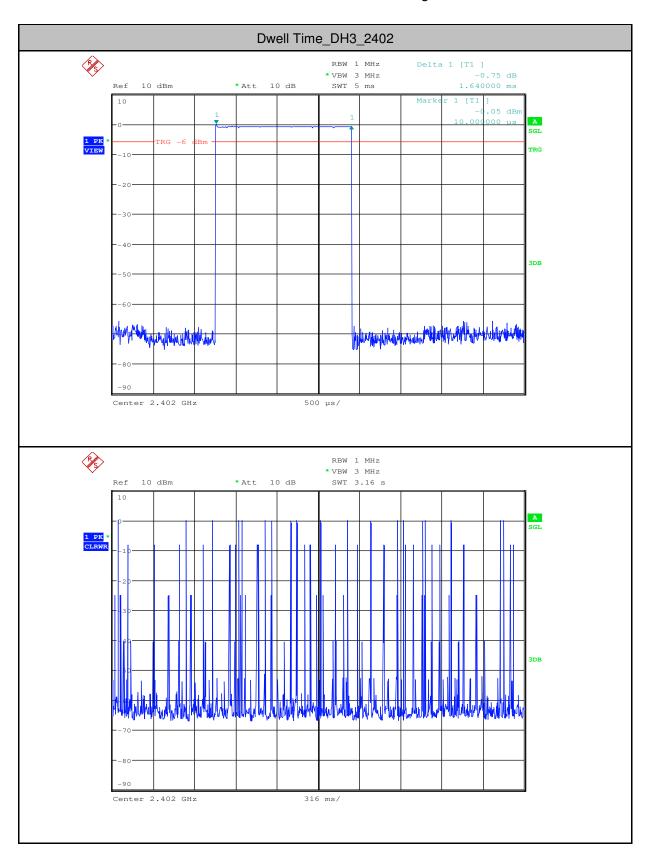
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Page: 75 of 152





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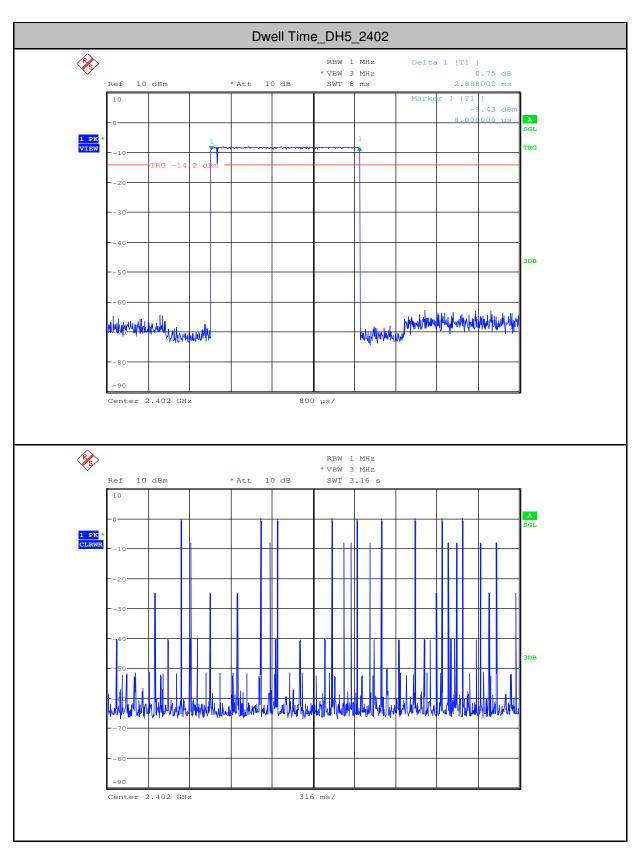
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Page: 76 of 152





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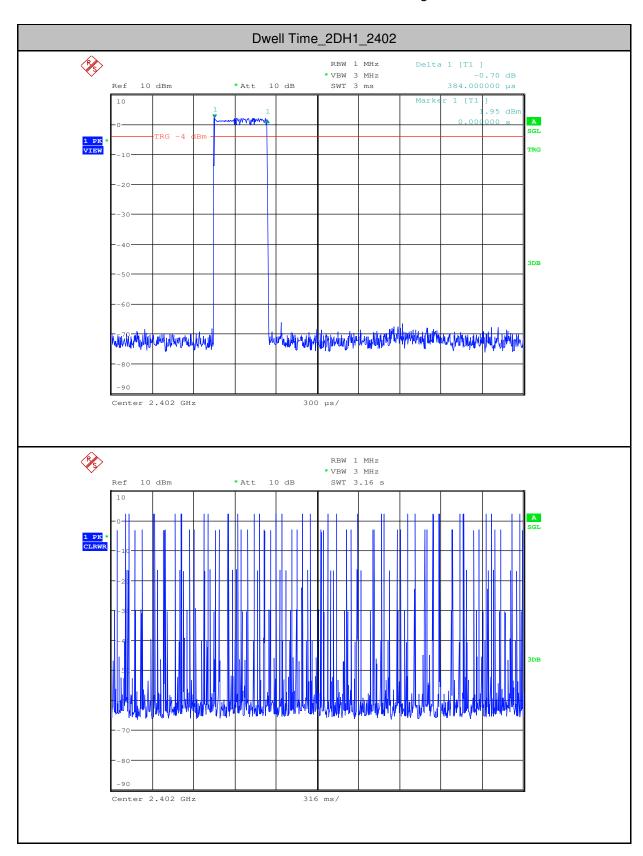
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Page: 77 of 152





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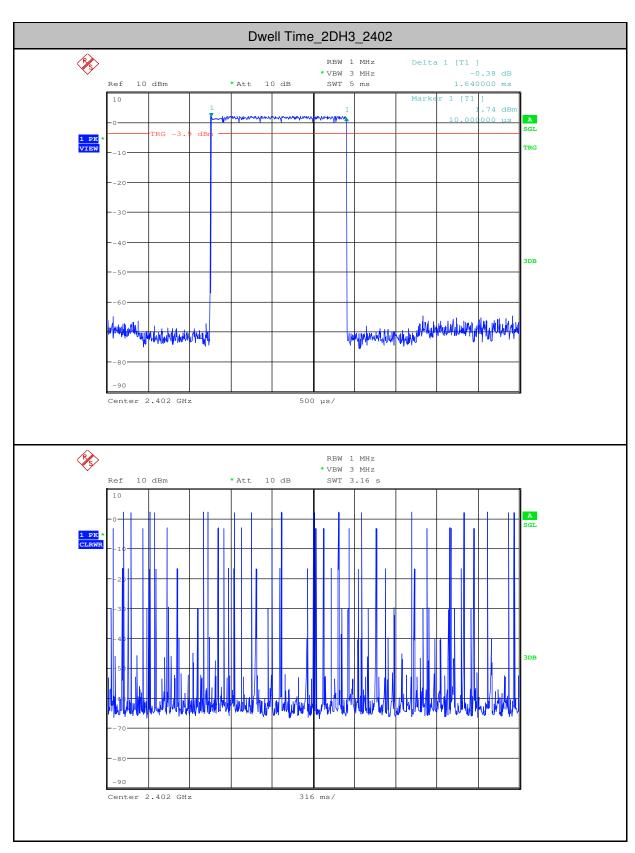
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Page: 78 of 152





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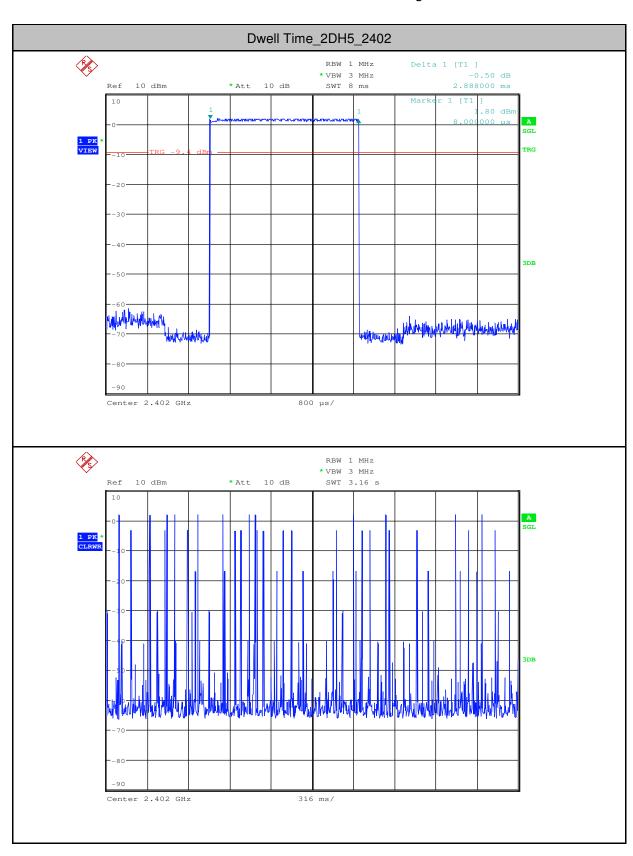
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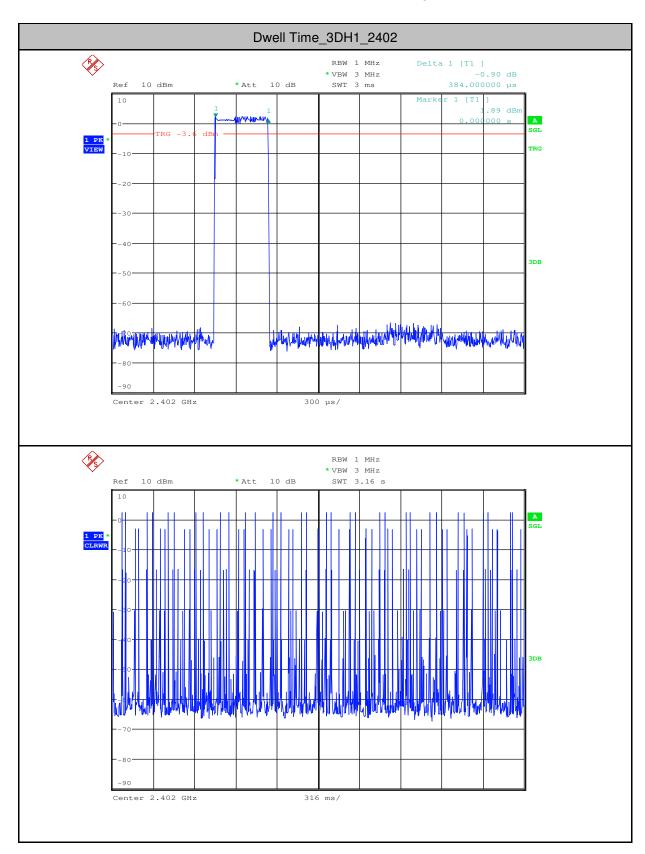
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Page: 80 of 152





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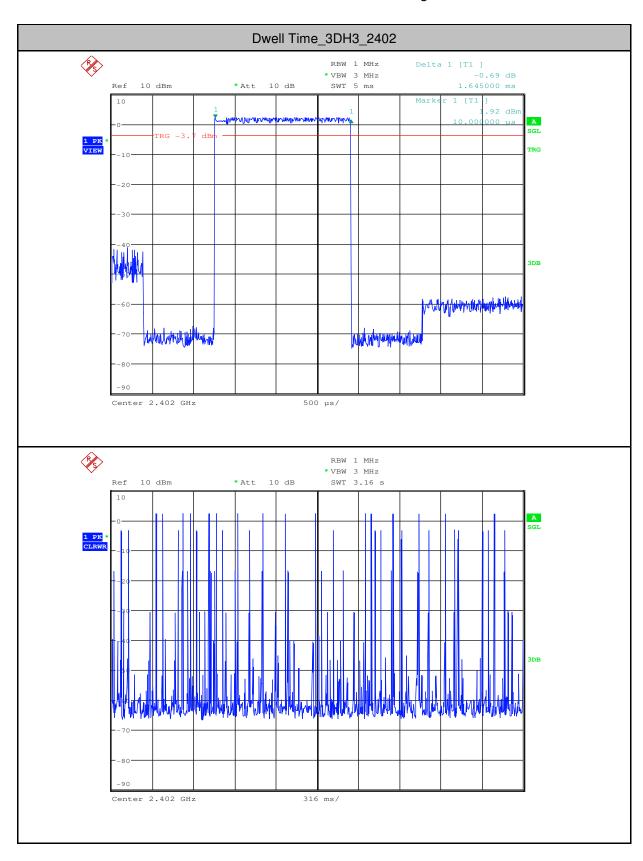
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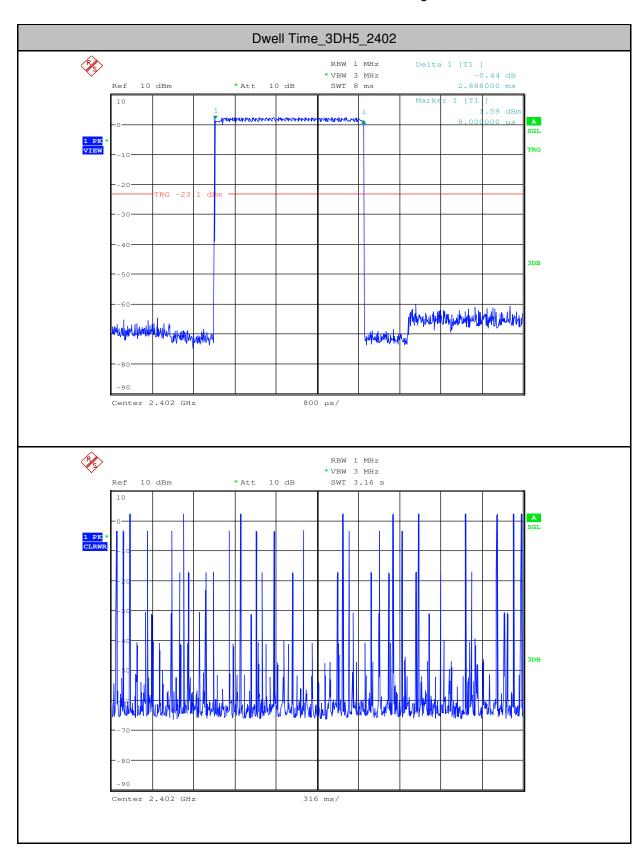
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Page: 82 of 152





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Report No.: SZEM190601521102

Page: 83 of 152

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



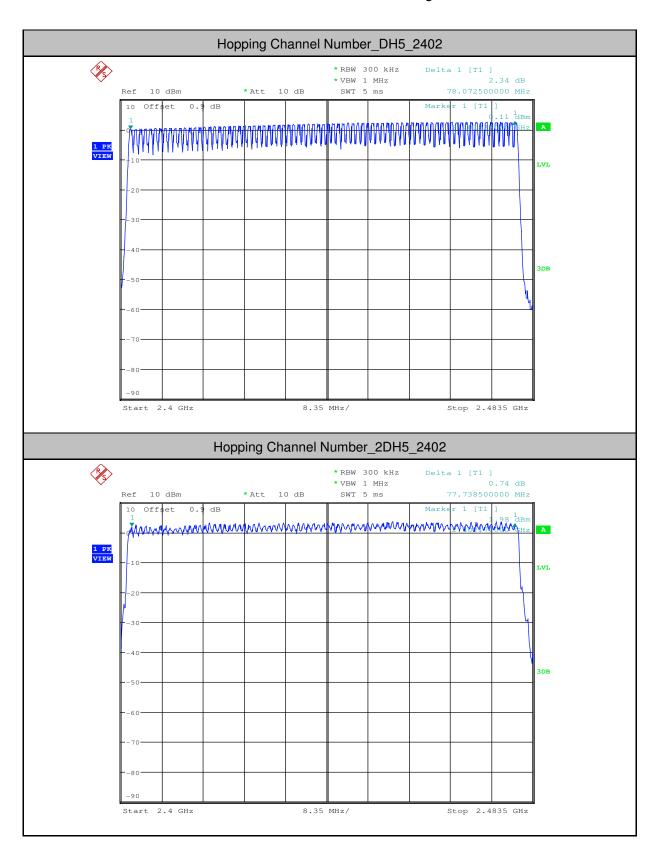
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Report No.: SZEM190601521102

Page: 84 of 152





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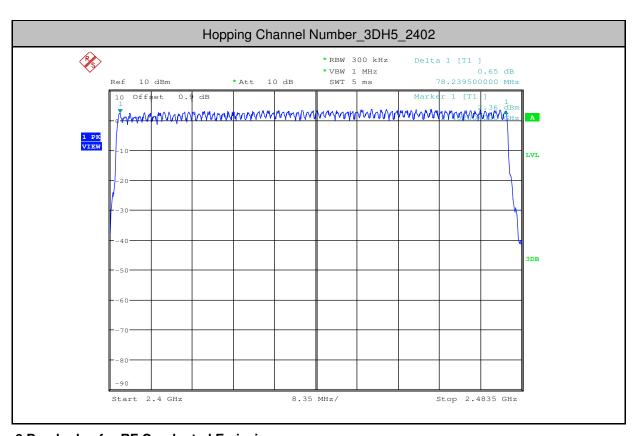
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Report No.: SZEM190601521102

Page: 85 of 152



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	-0.120	-58.482	<-20.12	PASS
DH5	2402	Off	-1.020	-62.675	<-21.02	PASS
DH5	2480	On	1.940	-59.058	<-18.06	PASS
DH5	2480	Off	1.420	-61.429	<-18.58	PASS
2DH5	2402	On	-1.500	-60.142	<-21.5	PASS
2DH5	2402	Off	-0.520	-63.031	<-20.52	PASS
2DH5	2480	On	2.670	-46.376	<-17.33	PASS
2DH5	2480	Off	1.020	-41.121	<-18.98	PASS
3DH5	2402	On	-0.430	-59.090	<-20.43	PASS
3DH5	2402	Off	-0.350	-62.510	<-20.35	PASS
3DH5	2480	On	2.570	-50.961	<-17.43	PASS
3DH5	2480	Off	0.480	-46.573	<-19.52	PASS



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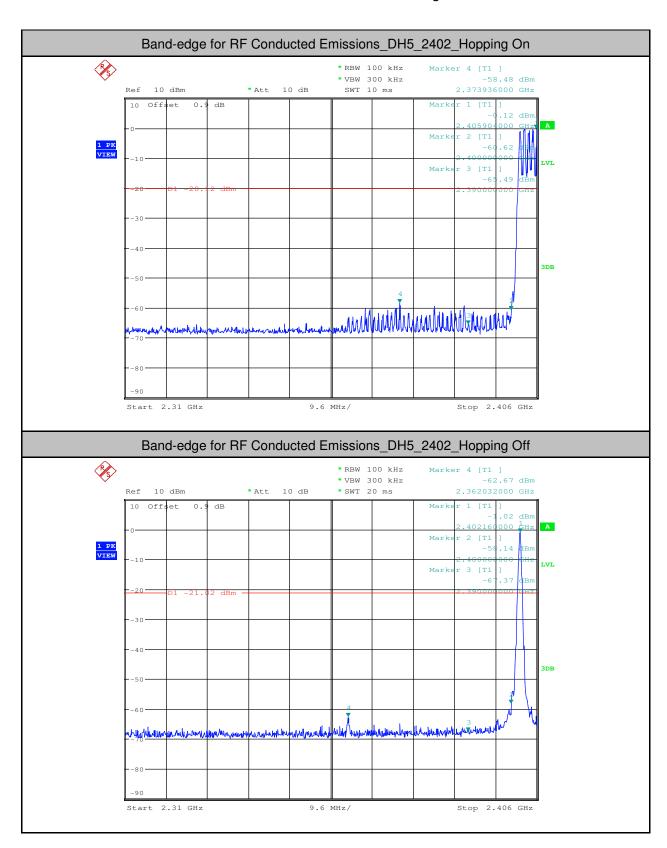
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Report No.: SZEM190601521102

Page: 86 of 152





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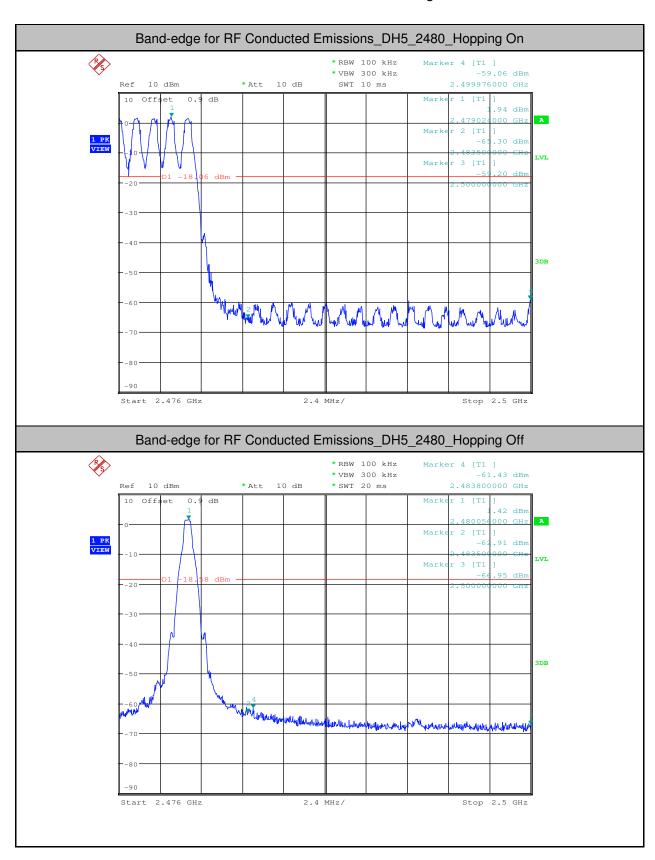
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Page: 87 of 152





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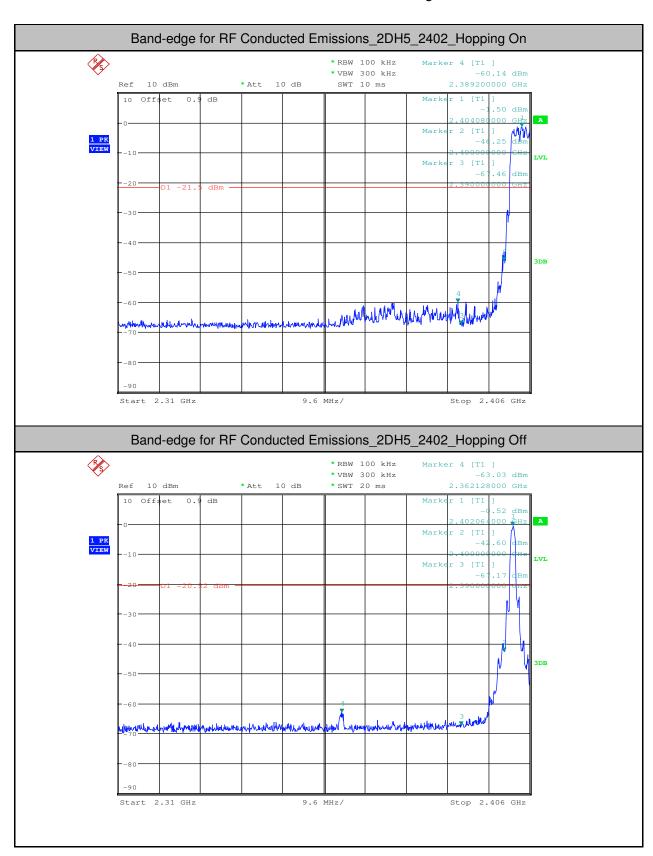
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Page: 88 of 152





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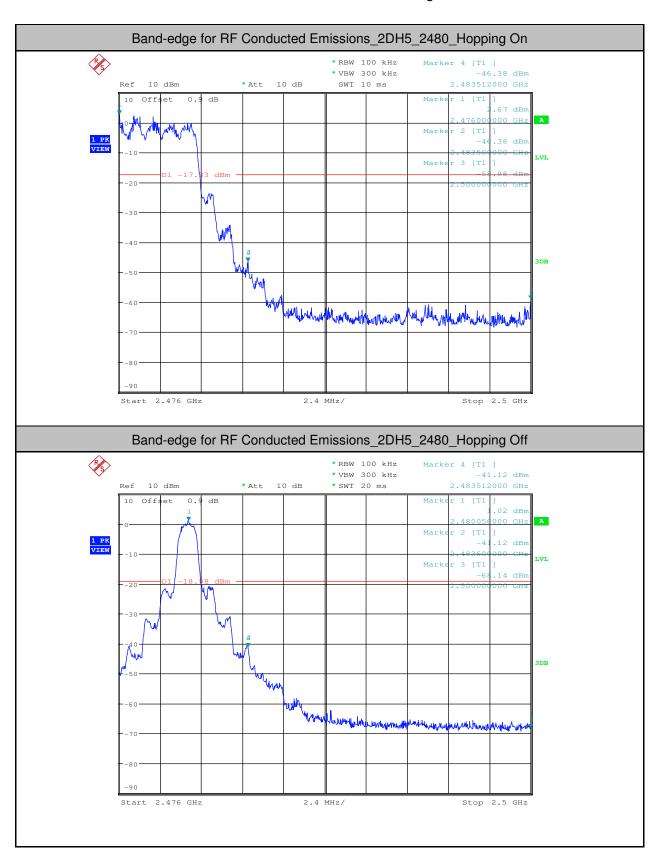
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Page: 89 of 152





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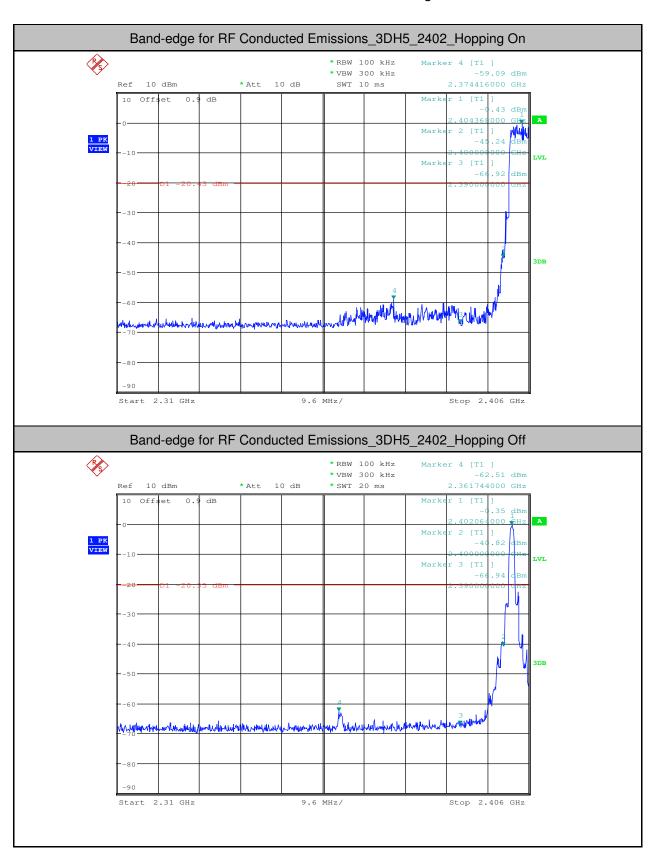
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Page: 90 of 152





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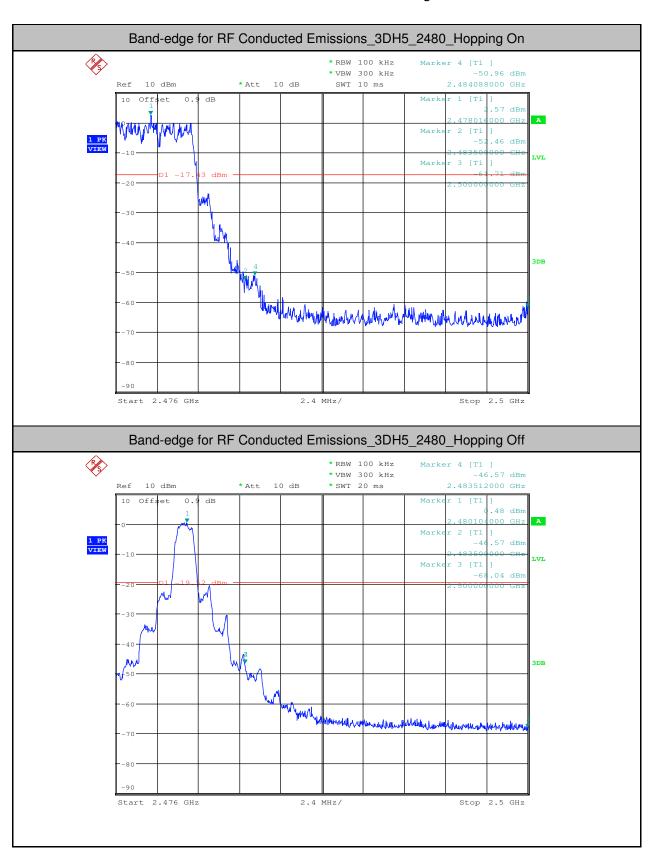
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Page: 91 of 152





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Report No.: SZEM190601521102

Page: 92 of 152

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	-0.93	-49.220	<-20.93	PASS
DH5	2402	10000	25000	1000	3000	-0.93	-55.160	<-20.93	PASS
DH5	2441	30	10000	1000	3000	0.85	-49.180	<-19.15	PASS
DH5	2441	10000	25000	1000	3000	0.85	-54.790	<-19.15	PASS
DH5	2480	30	10000	1000	3000	1.56	-49.820	<-18.44	PASS
DH5	2480	10000	25000	1000	3000	1.56	-54.640	<-18.44	PASS
2DH5	2402	30	10000	1000	3000	-0.31	-44.010	<-20.31	PASS
2DH5	2402	10000	25000	1000	3000	-0.31	-54.520	<-20.31	PASS
2DH5	2441	30	10000	1000	3000	0.95	-45.280	<-19.05	PASS
2DH5	2441	10000	25000	1000	3000	0.95	-54.970	<-19.05	PASS
2DH5	2480	30	10000	1000	3000	0.9	-47.350	<-19.1	PASS
2DH5	2480	10000	25000	1000	3000	0.9	-55.370	<-19.1	PASS
3DH5	2402	30	10000	1000	3000	-0.32	-43.740	<-20.32	PASS
3DH5	2402	10000	25000	1000	3000	-0.32	-54.920	<-20.32	PASS
3DH5	2441	30	10000	1000	3000	1.01	-45.010	<-18.99	PASS
3DH5	2441	10000	25000	1000	3000	1.01	-54.790	<-18.99	PASS
3DH5	2480	30	10000	1000	3000	0.47	-47.910	<-19.53	PASS
3DH5	2480	10000	25000	1000	3000	0.47	-54.620	<-19.53	PASS



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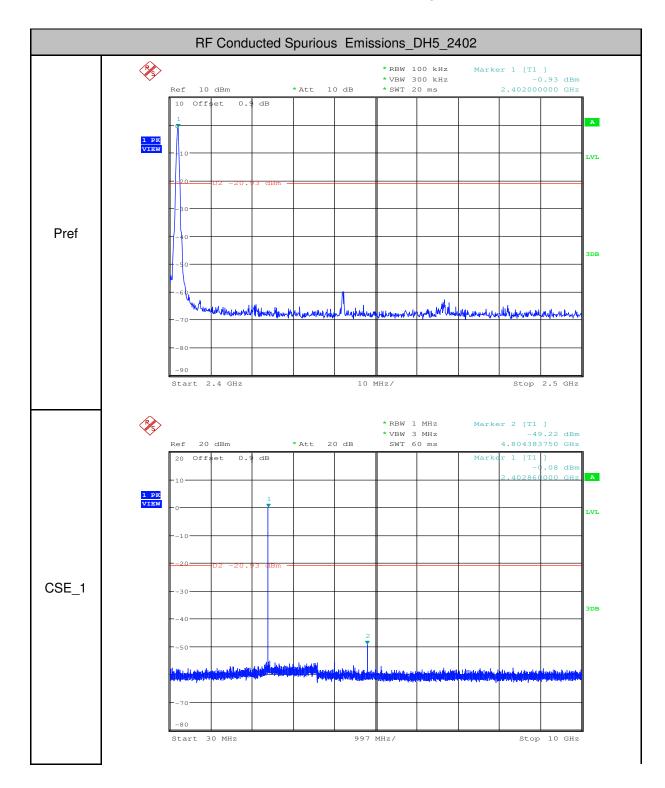
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Page: 93 of 152





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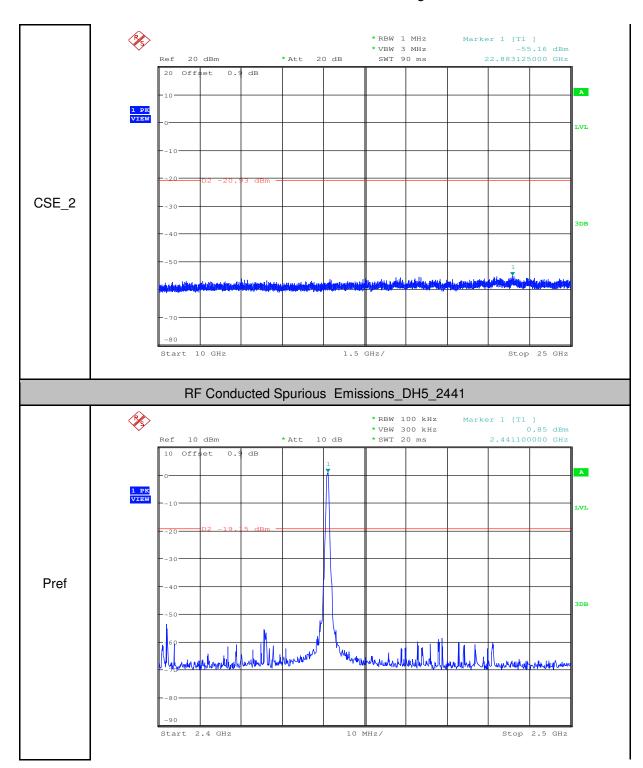
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Page: 94 of 152





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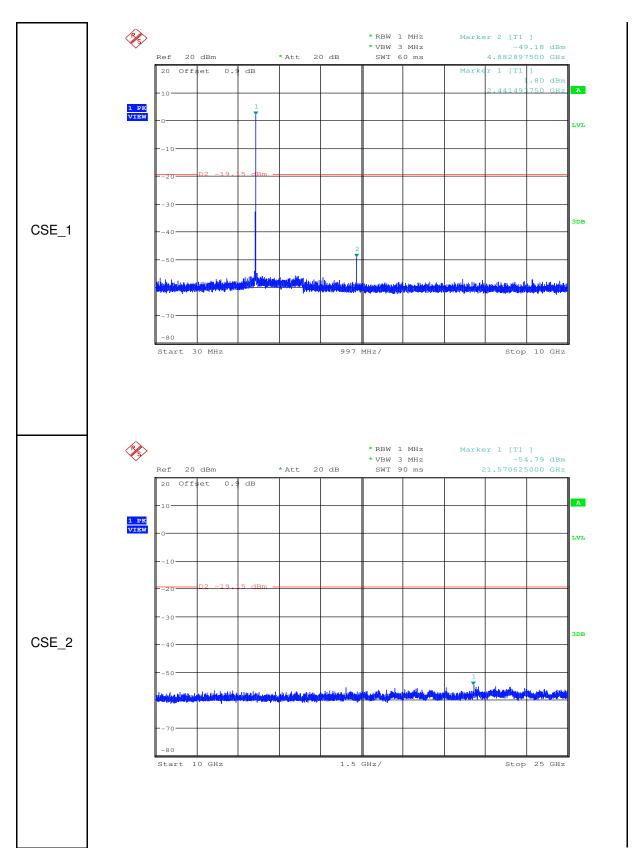
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Page: 95 of 152





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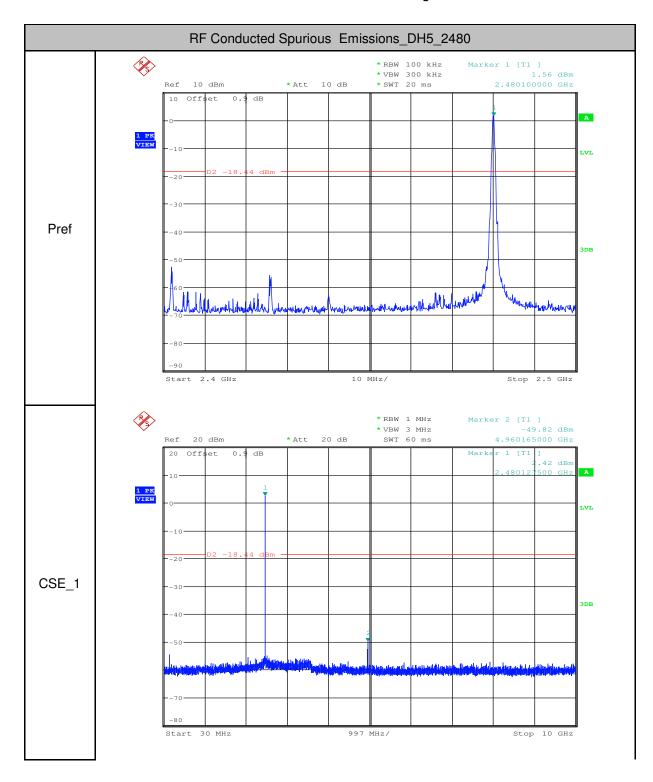
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Page: 96 of 152





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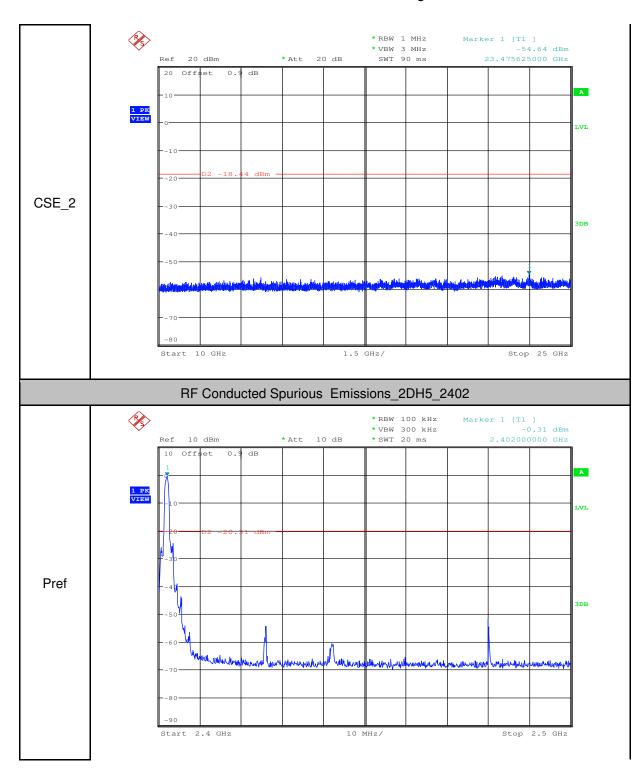
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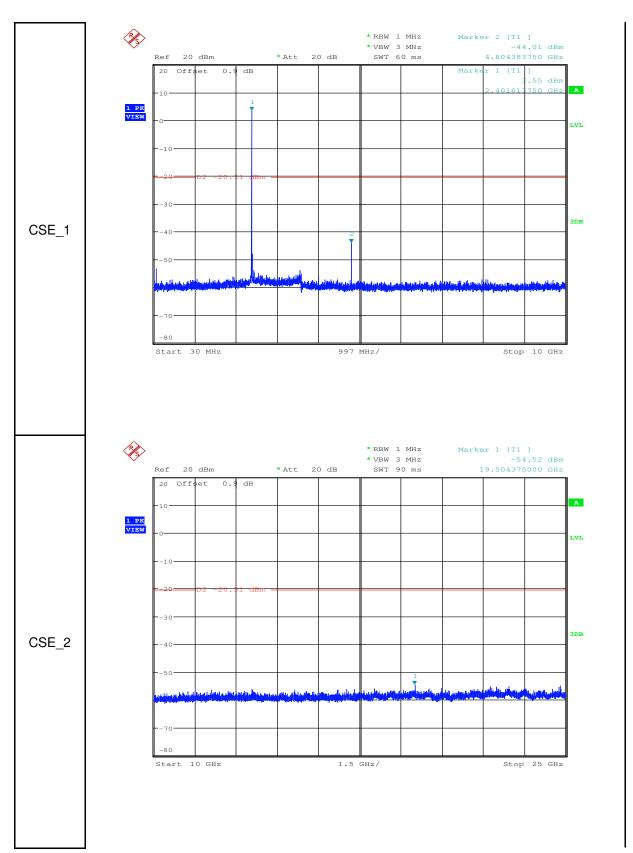
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Page: 98 of 152





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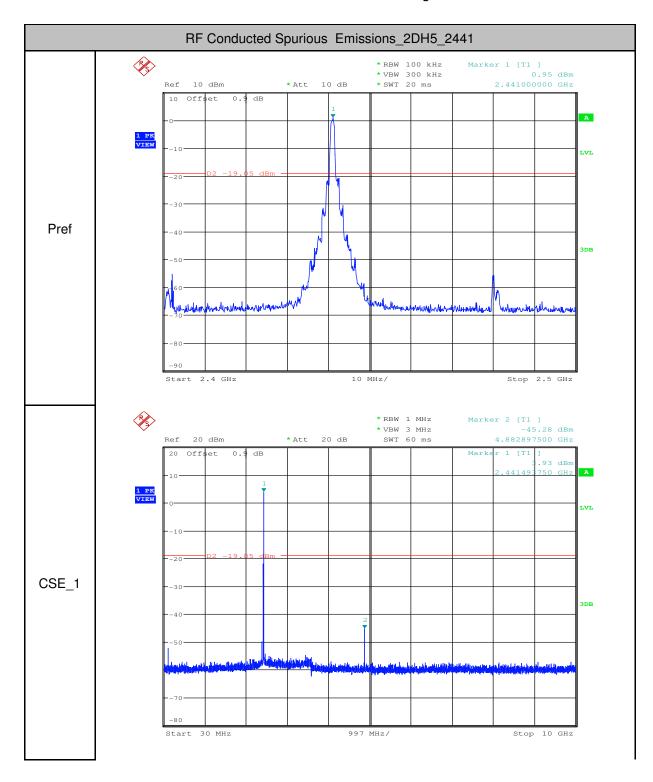
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Report No.: SZEM190601521102

Page: 99 of 152





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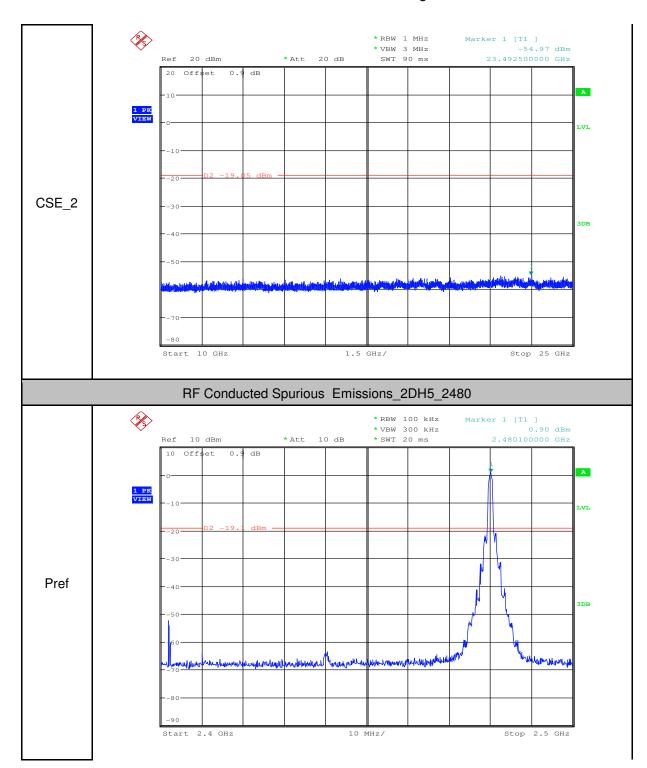
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Report No.: SZEM190601521102

Page: 100 of 152





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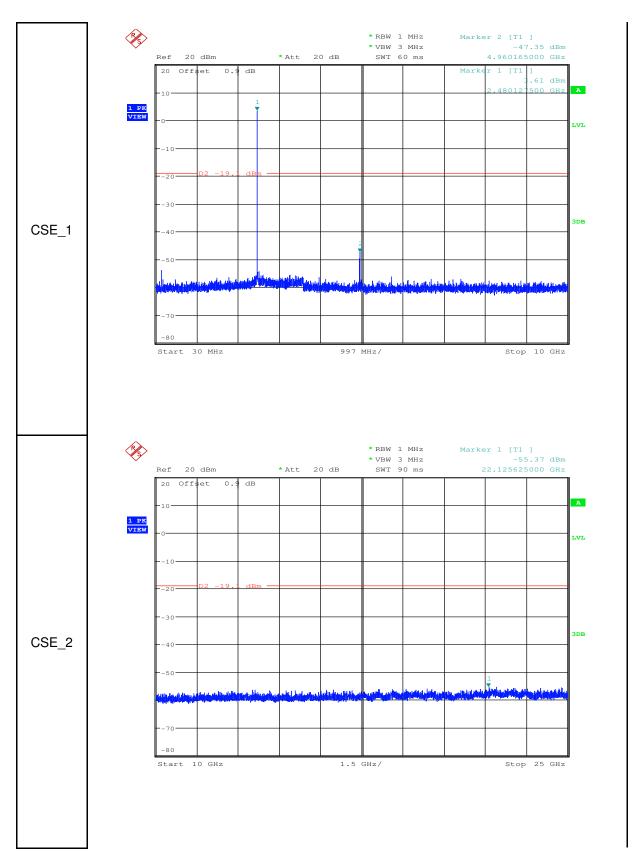
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Report No.: SZEM190601521102

Page: 101 of 152





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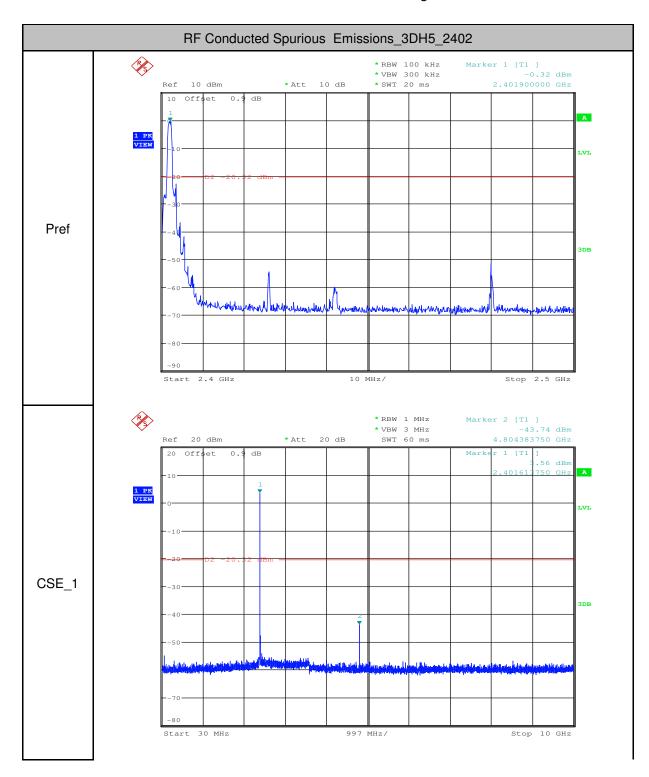
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Report No.: SZEM190601521102

Page: 102 of 152





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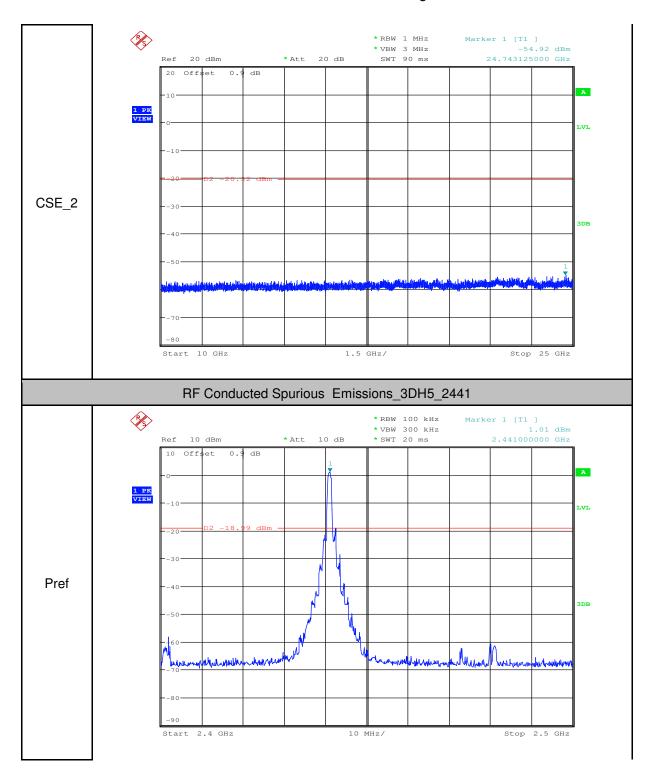
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Report No.: SZEM190601521102

Page: 103 of 152





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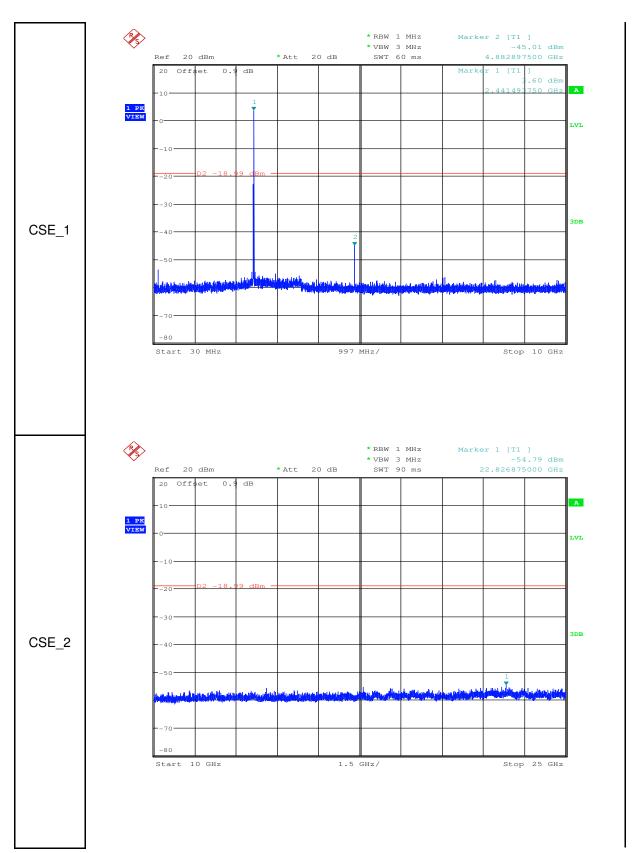
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Report No.: SZEM190601521102

Page: 104 of 152





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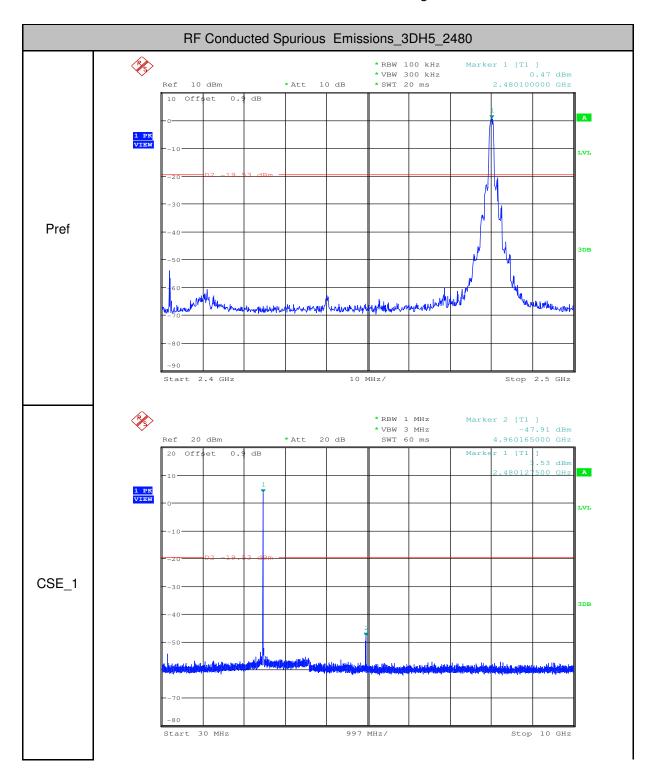
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Page: 105 of 152





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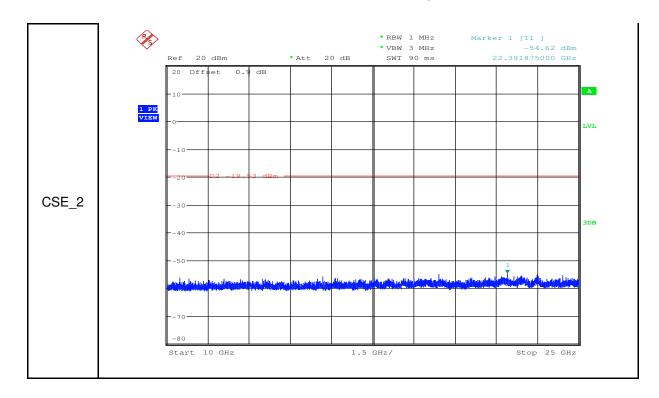
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Page: 106 of 152





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Report No.: SZEM190601521102

Page: 107 of 152

9.1.2 Appendix 15.247-Right Ear

1.20 dB Bandwidth

Test Mode	Test Channel	EBW[MHz]	Limit[MHz]	Verdict
DH5	2402	1.023		PASS
DH5	2441	0.984		PASS
DH5	2480	1.023		PASS
2DH5	2402	1.386		PASS
2DH5	2441	1.407		PASS
2DH5	2480	1.404		PASS
3DH5	2402	1.371		PASS
3DH5	2441	1.401		PASS
3DH5	2480	1.401		PASS



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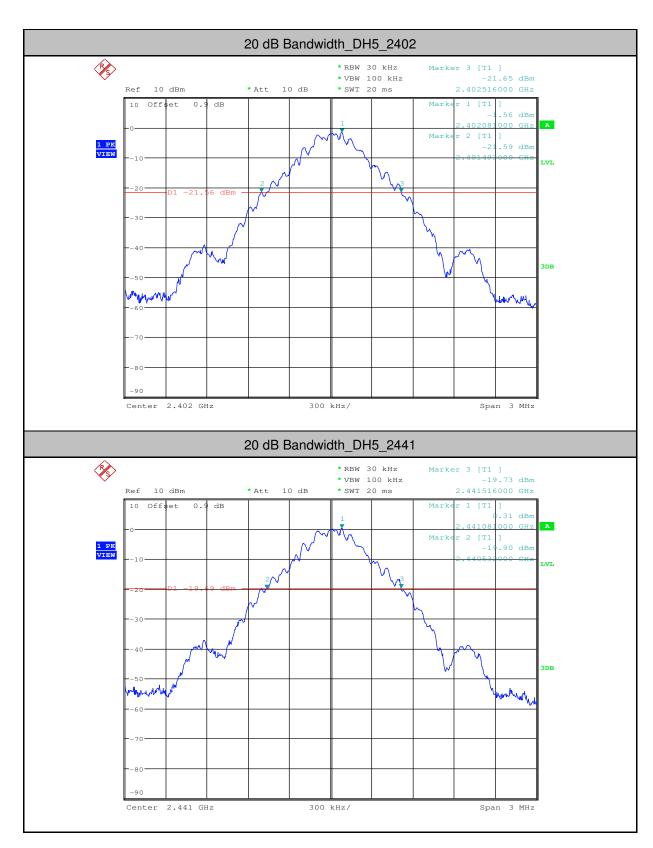
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Page: 108 of 152





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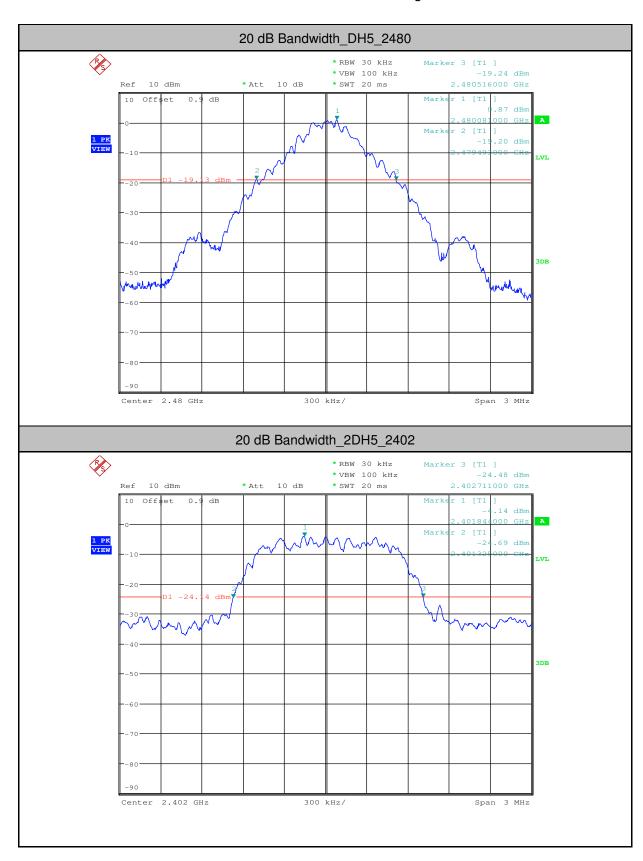
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Page: 109 of 152





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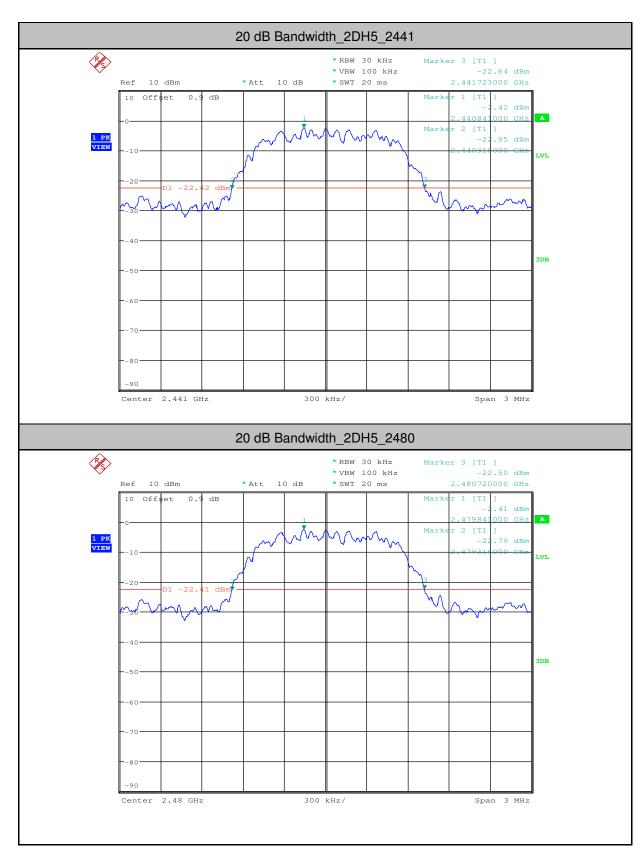
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Page: 110 of 152





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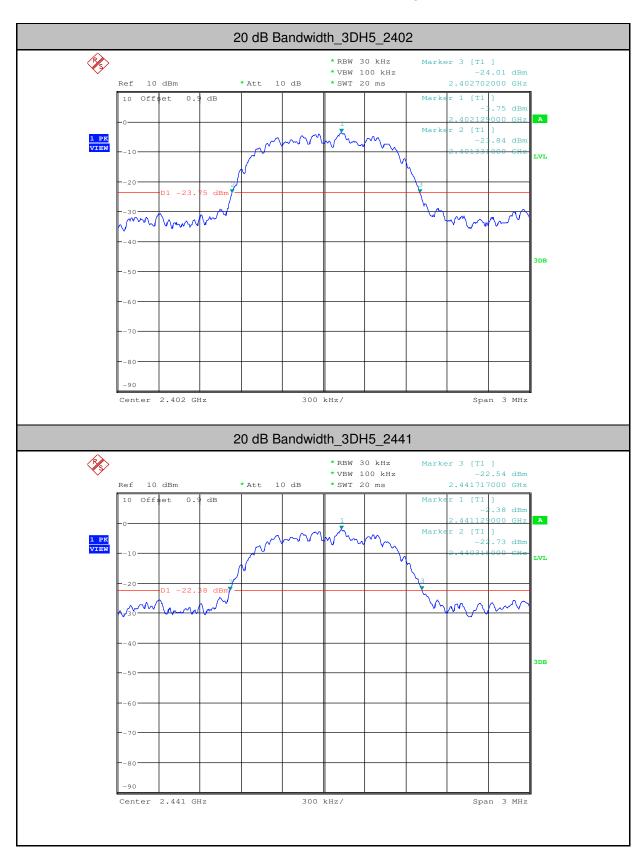
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Page: 111 of 152





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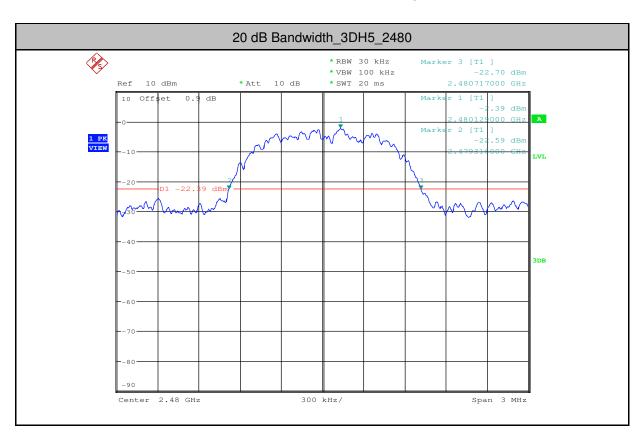
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Report No.: SZEM190601521102

Page: 112 of 152



2.Conducted Peak Output Power

	-			
Test Mode	Test Channel	Power[dBm]	Limit[dBm]	Verdict
DH5	2402	1.58	<=20.97	PASS
DH5	2441	3.42	<=20.97	PASS
DH5	2480	3.98	<=20.97	PASS
2DH5	2402	4.81	<=20.97	PASS
2DH5	2441	5.22	<=20.97	PASS
2DH5	2480	5.19	<=20.97	PASS
3DH5	2402	5.07	<=20.97	PASS
3DH5	2441	5.32	<=20.97	PASS
3DH5	2480	5.28	<=20.97	PASS



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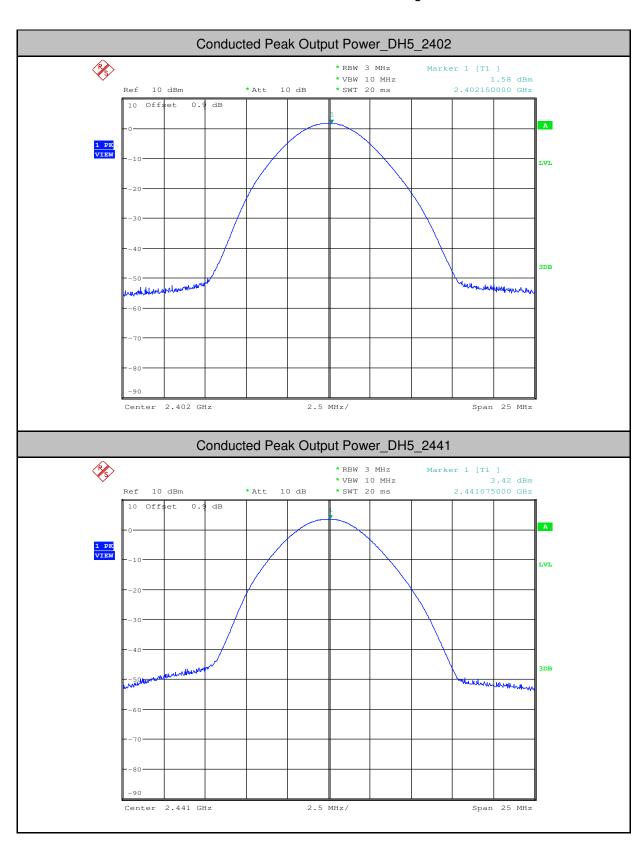
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Page: 113 of 152





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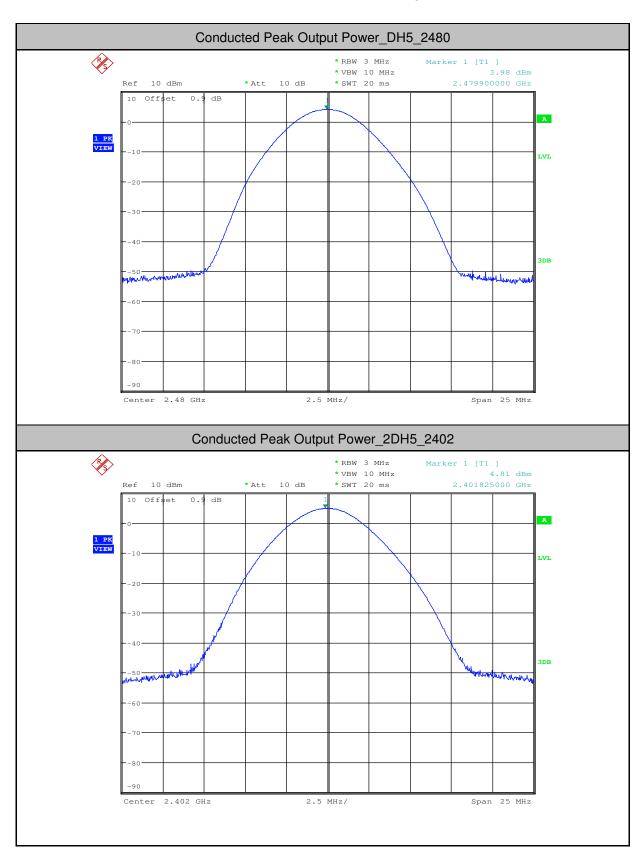
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Report No.: SZEM190601521102

114 of 152 Page:





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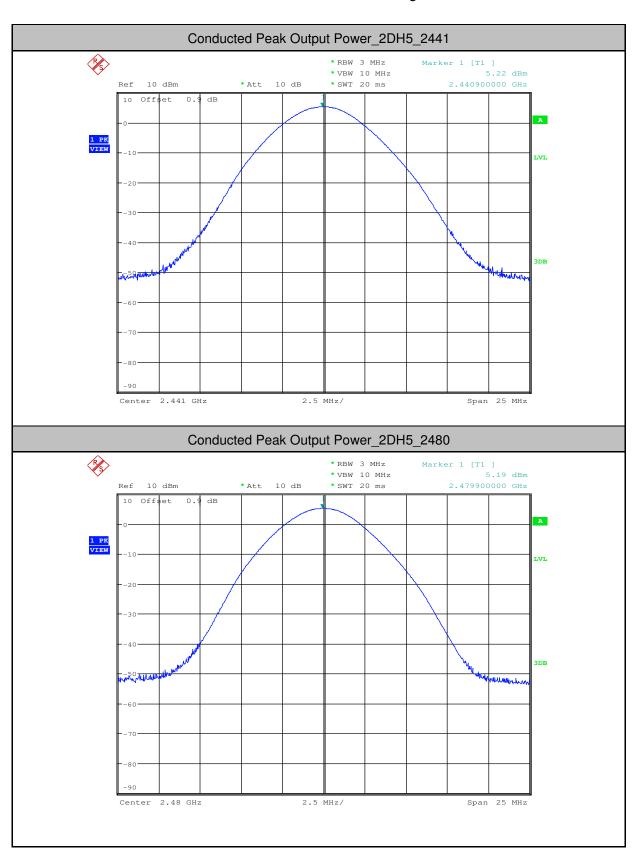
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115 of 152 Page:





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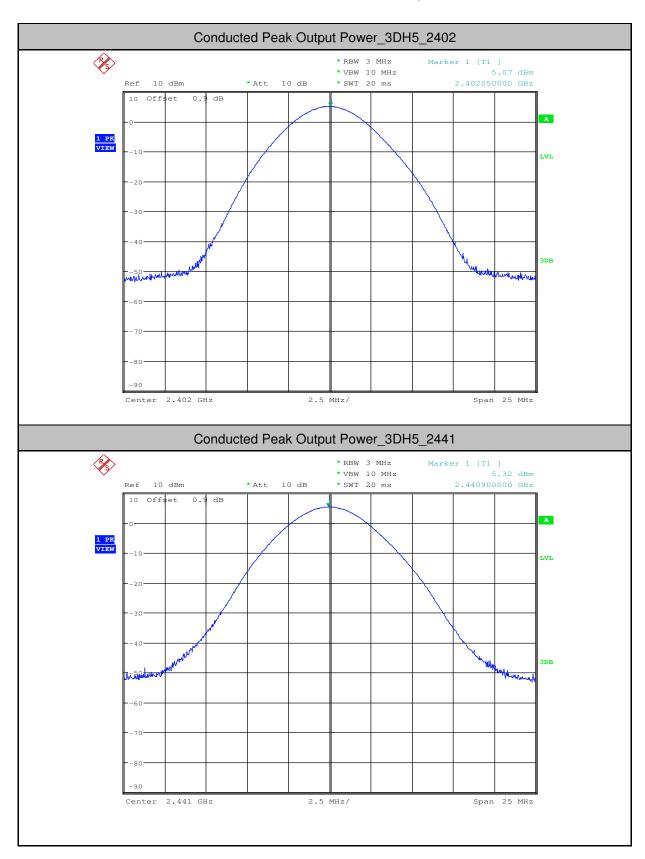
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Report No.: SZEM190601521102

Page: 116 of 152





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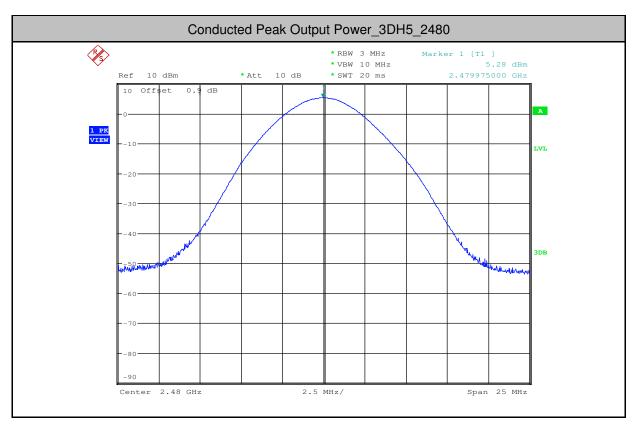
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Report No.: SZEM190601521102

Page: 117 of 152



3. Carrier Frequency Separation

Test Mode	Test Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	2441	0.942	>=0.68	PASS
2DH5	2441	1.014	>=0.94	PASS
3DH5	2441	0.993	>=0.93	PASS



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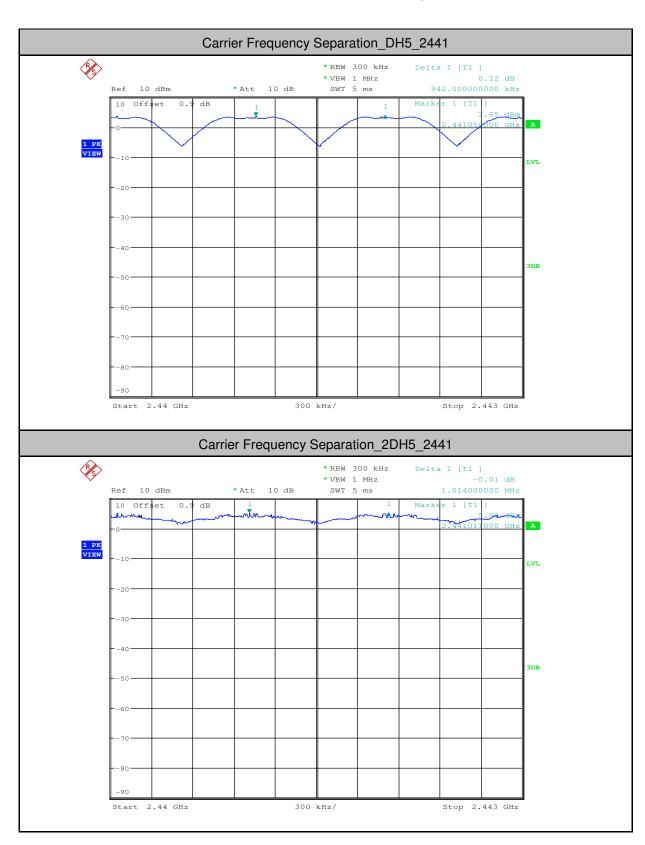
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Report No.: SZEM190601521102

Page: 118 of 152





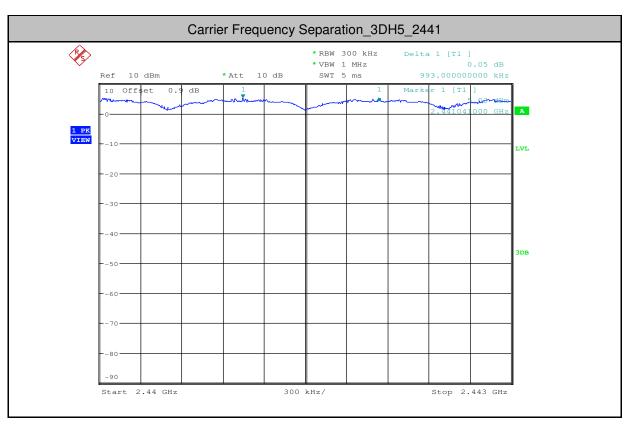
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Report No.: SZEM190601521102

Page: 119 of 152



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	320	0.122	<0.4	PASS
DH3	2402	1.64	200	0.328	<0.4	PASS
DH5	2402	2.88	70	0.202	<0.4	PASS
2DH1	2402	0.39	320	0.125	<0.4	PASS
2DH3	2402	1.64	150	0.246	<0.4	PASS
2DH5	2402	2.89	90	0.26	<0.4	PASS
3DH1	2402	0.38	320	0.122	<0.4	PASS
3DH3	2402	1.64	170	0.279	<0.4	PASS
3DH5	2402	2.89	100	0.289	<0.4	PASS



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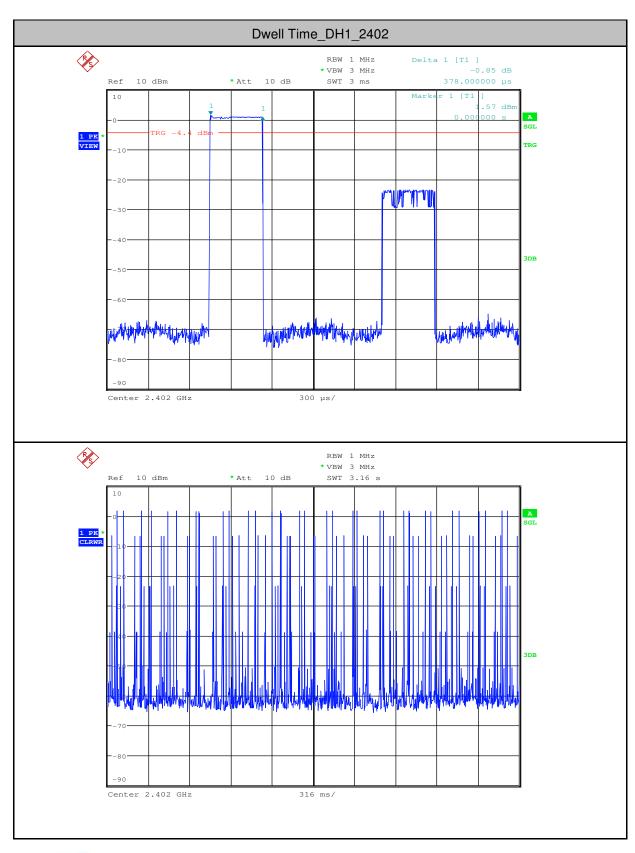
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Report No.: SZEM190601521102

Page: 120 of 152





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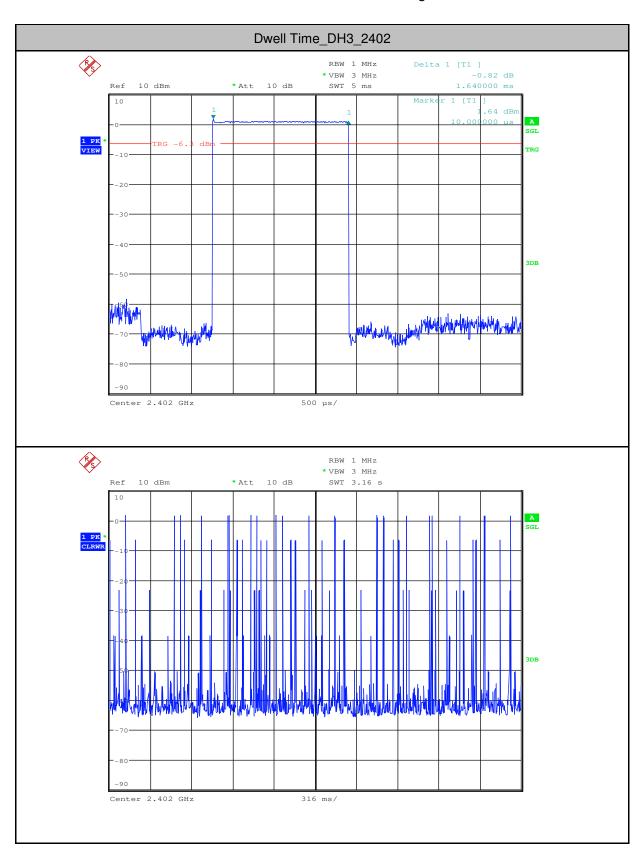
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Report No.: SZEM190601521102

Page: 121 of 152





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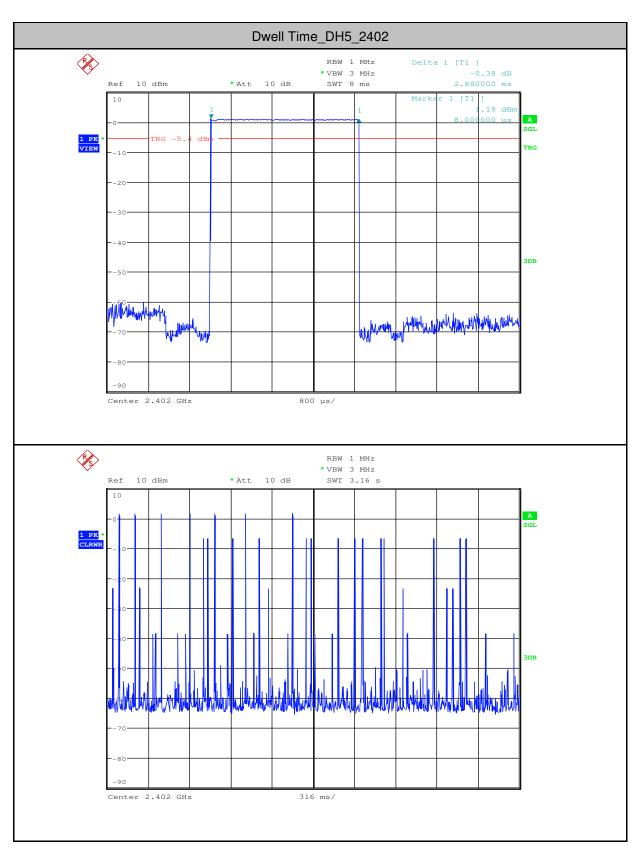
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Page: 122 of 152





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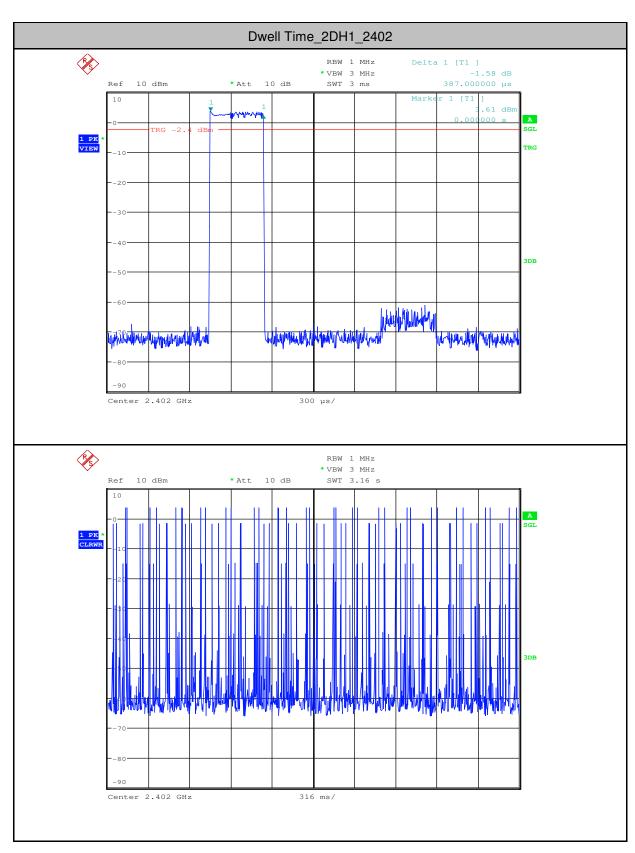
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Page: 123 of 152





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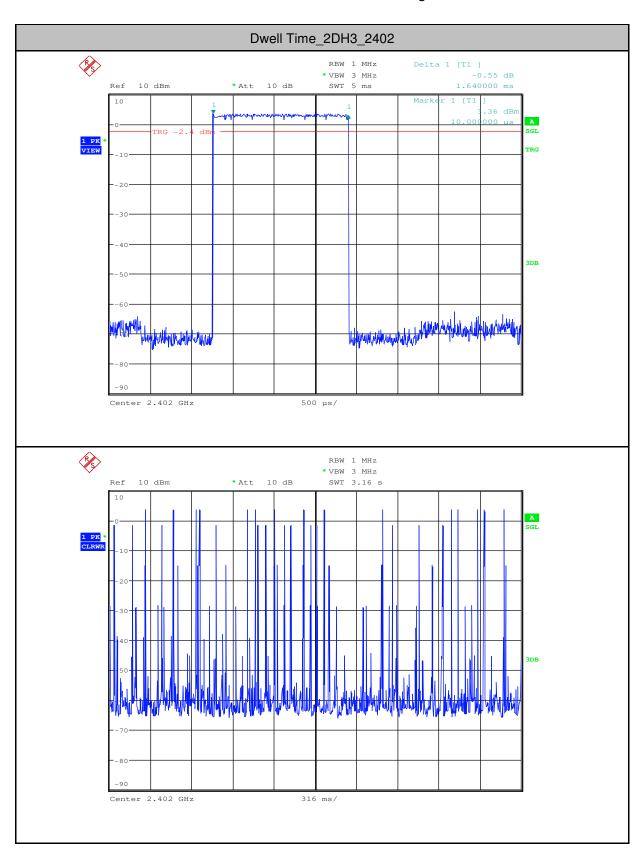
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Page: 124 of 152





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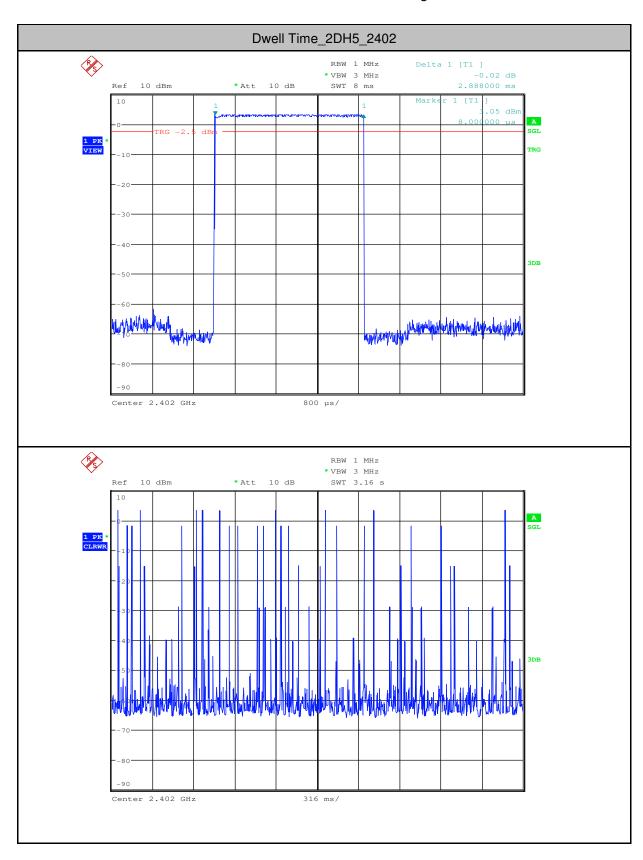
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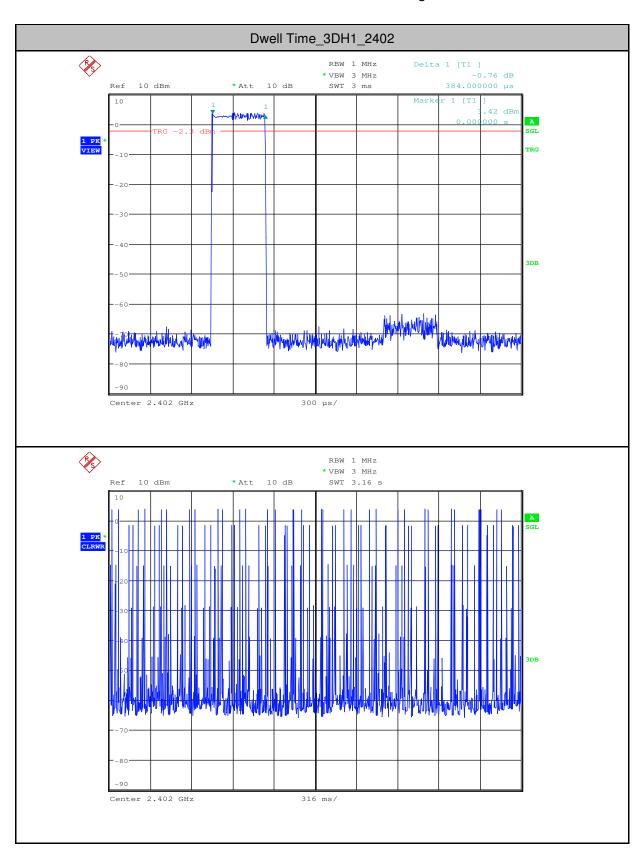
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Page: 126 of 152





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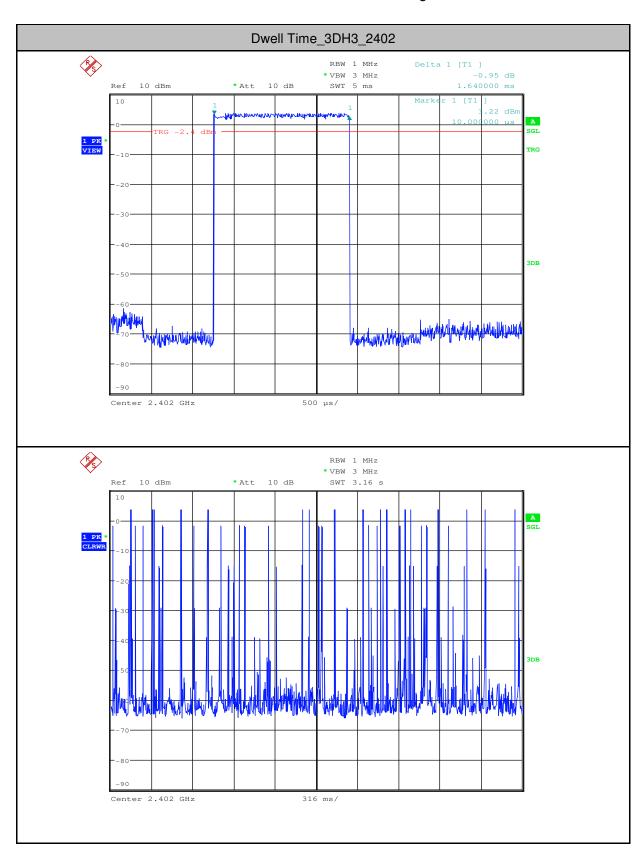
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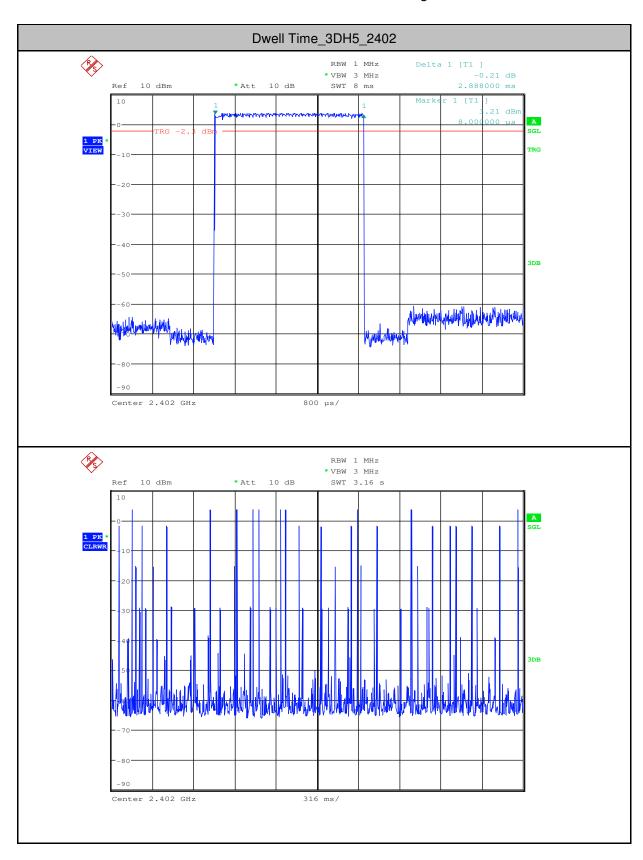
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Report No.: SZEM190601521102

Page: 129 of 152

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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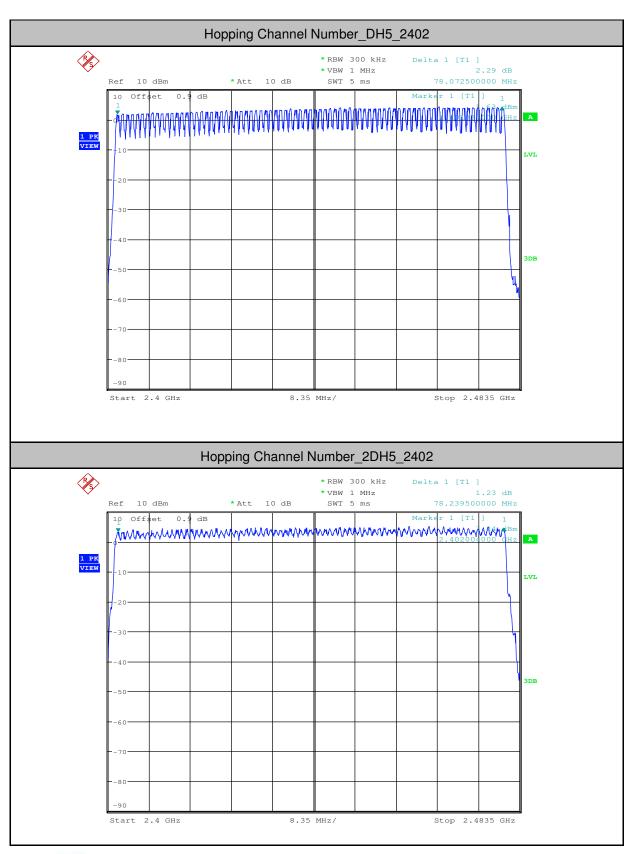
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Page: 130 of 152





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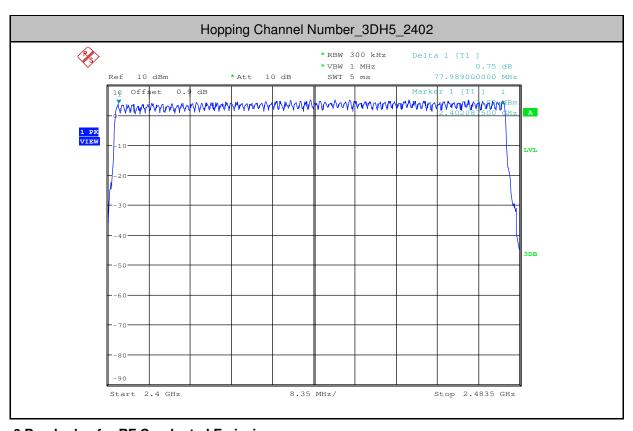
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Report No.: SZEM190601521102

Page: 131 of 152



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	1.090	-57.751	<-18.91	PASS
DH5	2402	Off	0.740	-61.715	<-19.26	PASS
DH5	2480	On	3.470	-57.043	<-16.53	PASS
DH5	2480	Off	3.040	-60.352	<-16.96	PASS
2DH5	2402	On	2.980	-58.175	<-17.02	PASS
2DH5	2402	Off	0.300	-63.445	<-19.7	PASS
2DH5	2480	On	3.340	-50.366	<-16.66	PASS
2DH5	2480	Off	2.060	-48.631	<-17.94	PASS
3DH5	2402	On	3.360	-58.536	<-16.64	PASS
3DH5	2402	Off	0.350	-63.350	<-19.65	PASS
3DH5	2480	On	2.860	-51.755	<-17.14	PASS
3DH5	2480	Off	1.890	-47.395	<-18.11	PASS



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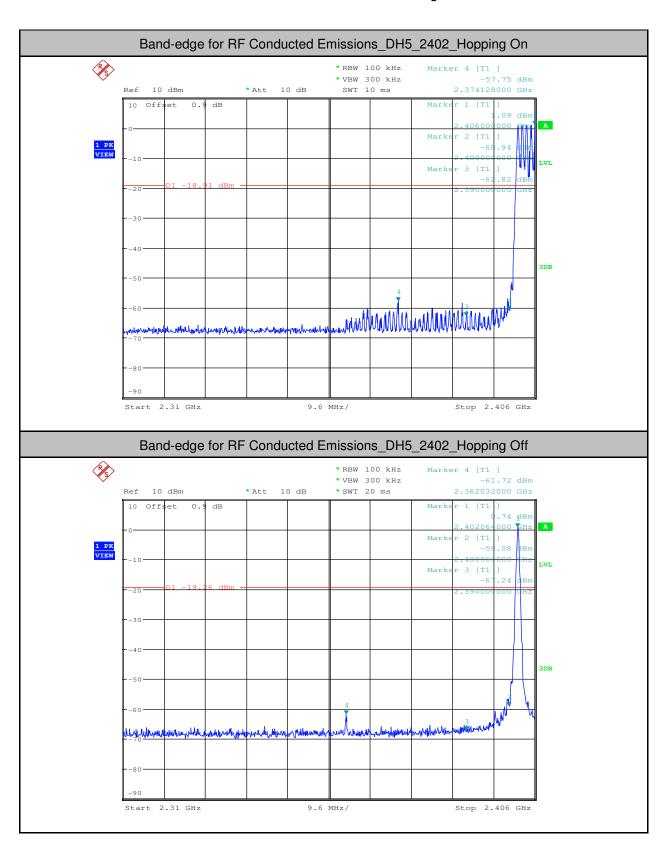
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Report No.: SZEM190601521102

Page: 132 of 152





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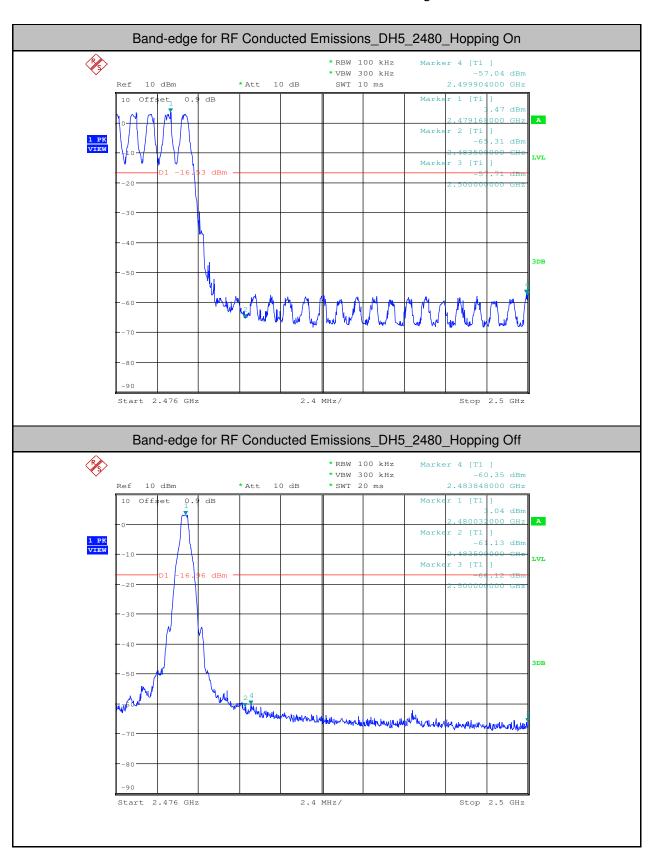
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Report No.: SZEM190601521102

Page: 133 of 152





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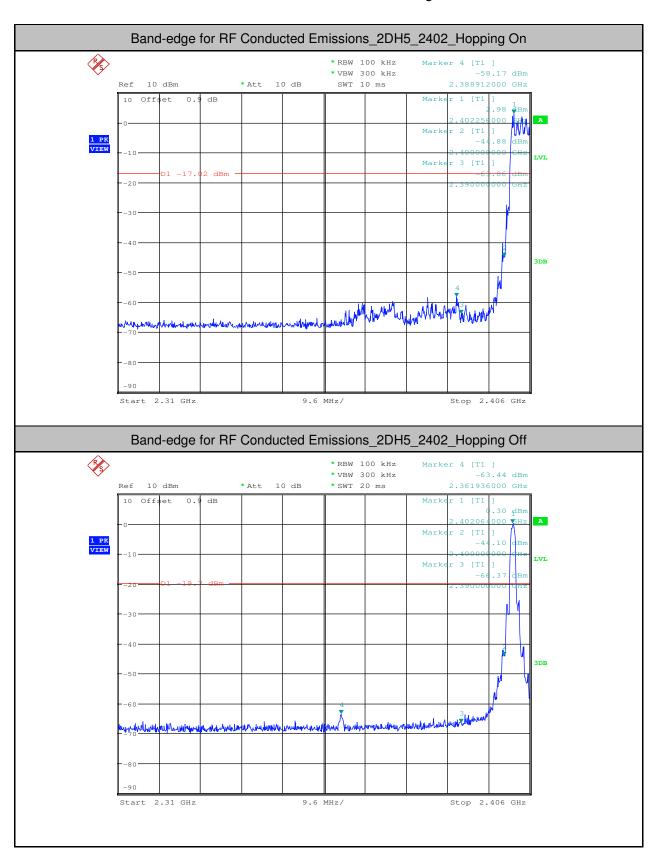
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Report No.: SZEM190601521102

Page: 134 of 152





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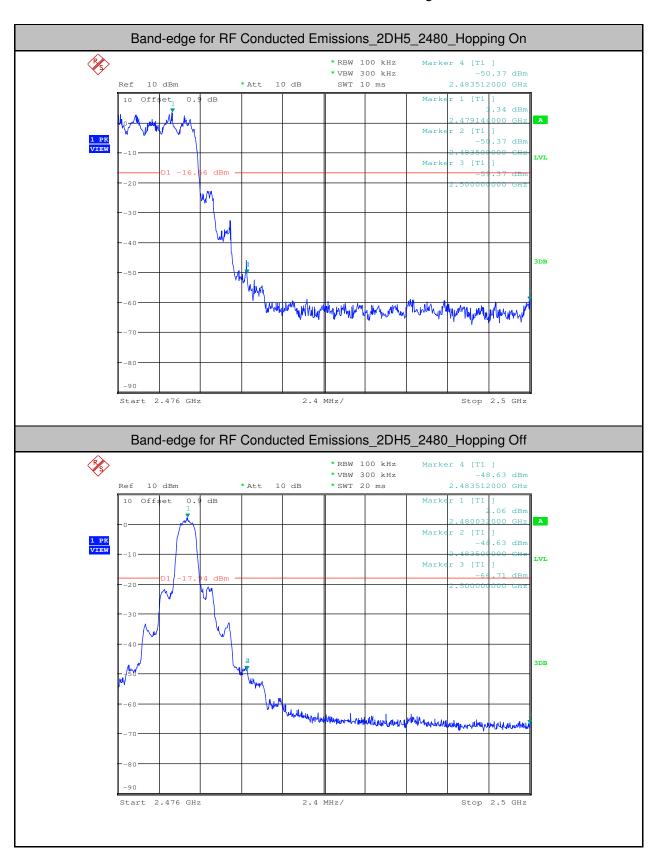
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Report No.: SZEM190601521102

Page: 135 of 152





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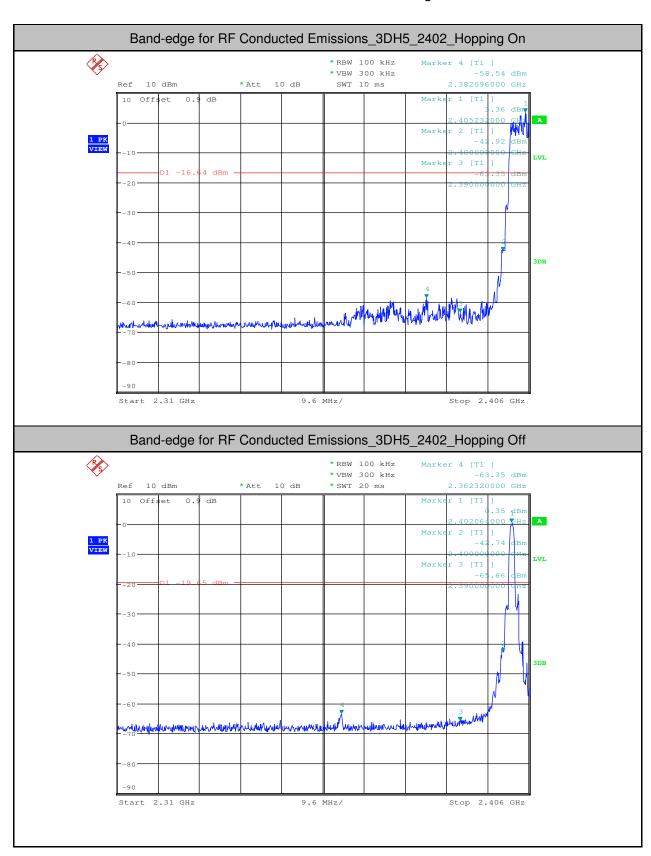
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Report No.: SZEM190601521102

Page: 136 of 152





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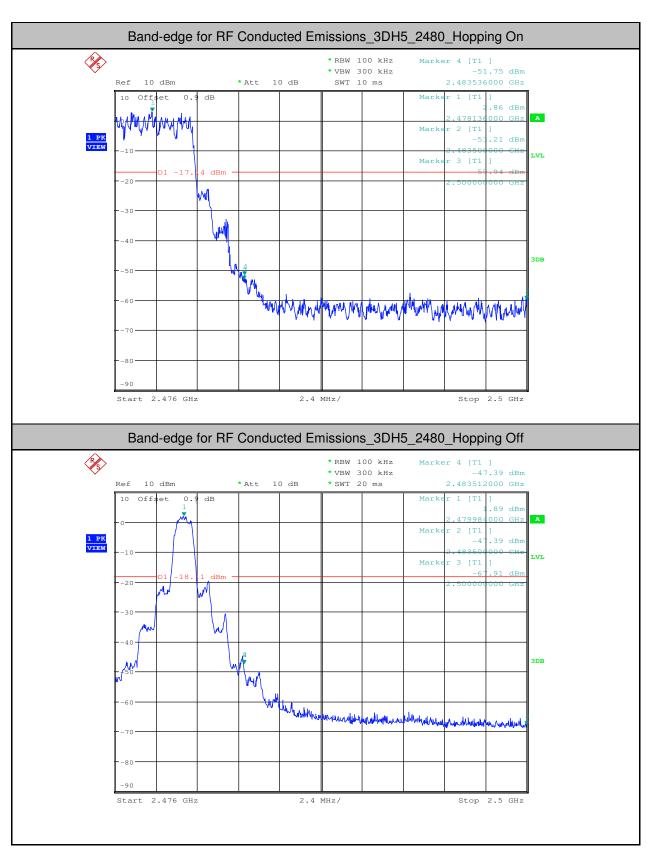
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Report No.: SZEM190601521102

Page: 137 of 152





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Report No.: SZEM190601521102

Page: 138 of 152

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	0.8	-54.270	<-19.2	PASS
DH5	2402	10000	25000	1000	3000	0.8	-55.090	<-19.2	PASS
DH5	2441	30	10000	1000	3000	2.59	-53.870	<-17.41	PASS
DH5	2441	10000	25000	1000	3000	2.59	-55.140	<-17.41	PASS
DH5	2480	30	10000	1000	3000	3.19	-52.150	<-16.81	PASS
DH5	2480	10000	25000	1000	3000	3.19	-54.840	<-16.81	PASS
2DH5	2402	30	10000	1000	3000	0.46	-51.800	<-19.54	PASS
2DH5	2402	10000	25000	1000	3000	0.46	-55.030	<-19.54	PASS
2DH5	2441	30	10000	1000	3000	1.98	-51.830	<-18.02	PASS
2DH5	2441	10000	25000	1000	3000	1.98	-54.780	<-18.02	PASS
2DH5	2480	30	10000	1000	3000	2.03	-51.390	<-17.97	PASS
2DH5	2480	10000	25000	1000	3000	2.03	-55.210	<-17.97	PASS
3DH5	2402	30	10000	1000	3000	0.29	-53.620	<-19.71	PASS
3DH5	2402	10000	25000	1000	3000	0.29	-55.290	<-19.71	PASS
3DH5	2441	30	10000	1000	3000	2.01	-51.910	<-17.99	PASS
3DH5	2441	10000	25000	1000	3000	2.01	-54.860	<-17.99	PASS
3DH5	2480	30	10000	1000	3000	1.99	-51.520	<-18.01	PASS
3DH5	2480	10000	25000	1000	3000	1.99	-54.570	<-18.01	PASS



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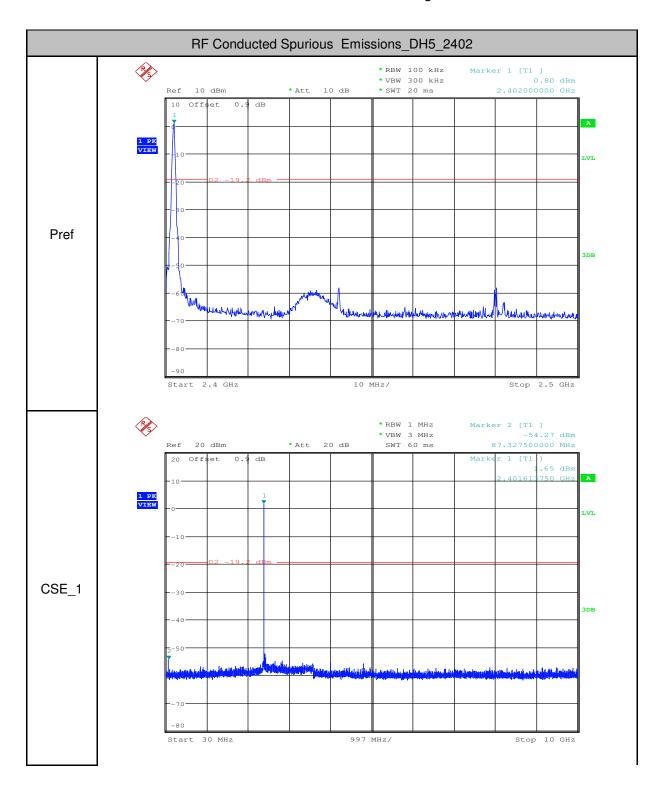
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Page: 139 of 152





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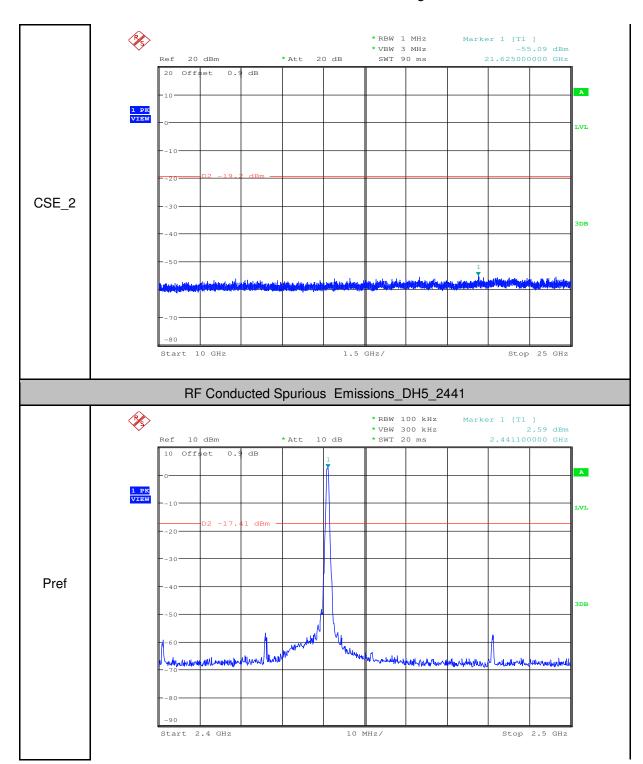
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Report No.: SZEM190601521102

Page: 140 of 152





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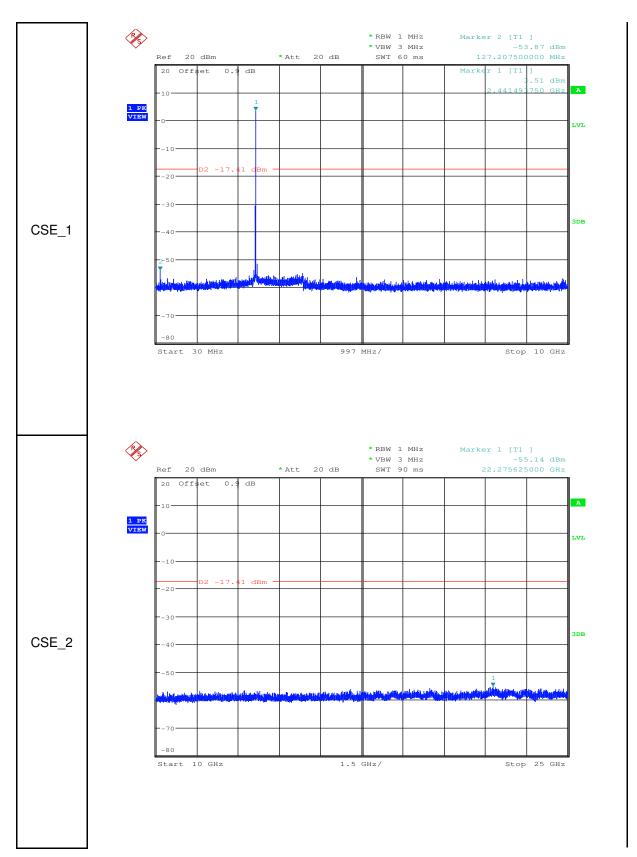
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Page: 141 of 152





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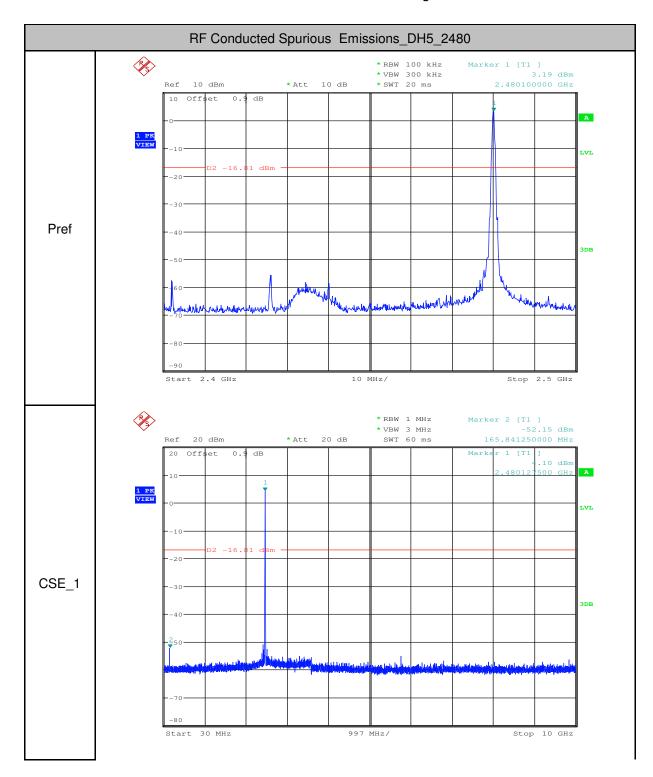
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Report No.: SZEM190601521102

Page: 142 of 152





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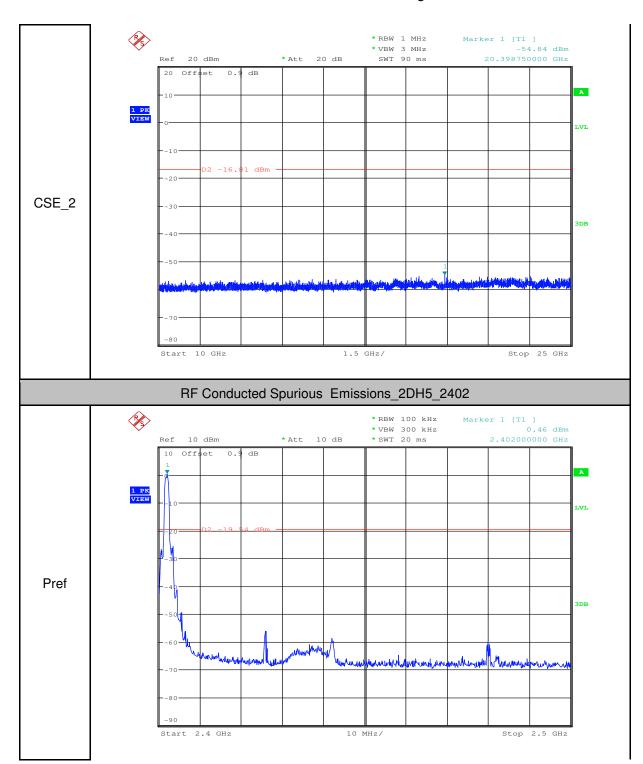
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Page: 143 of 152





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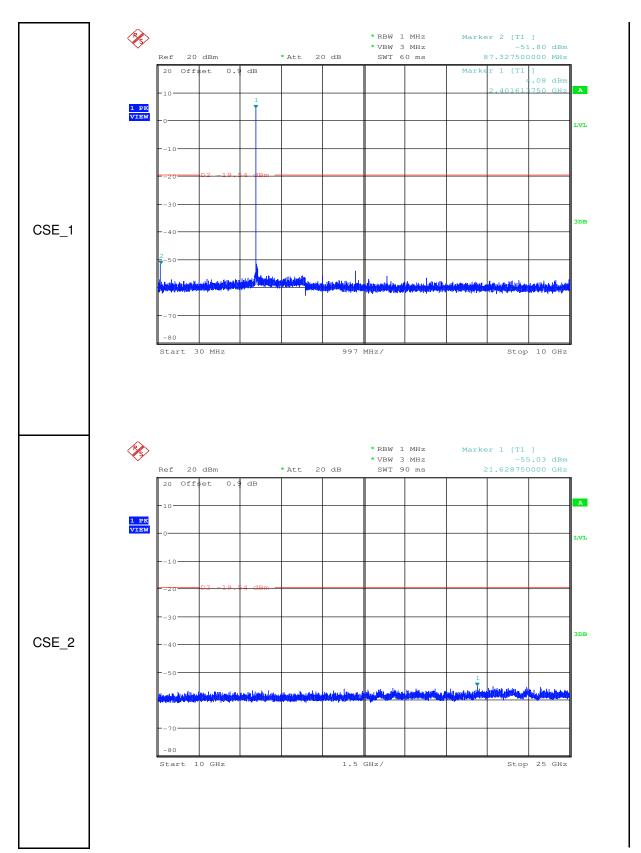
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Report No.: SZEM190601521102

Page: 144 of 152





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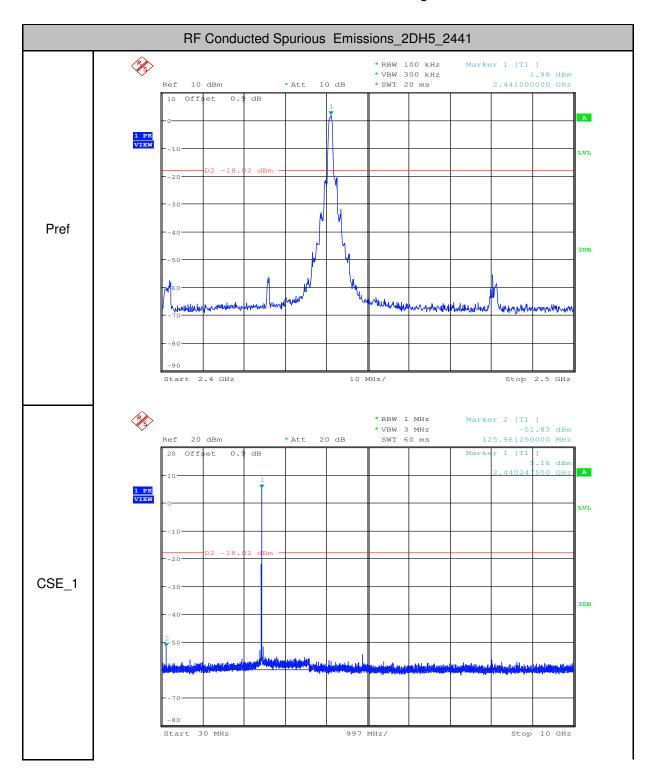
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Report No.: SZEM190601521102

Page: 145 of 152





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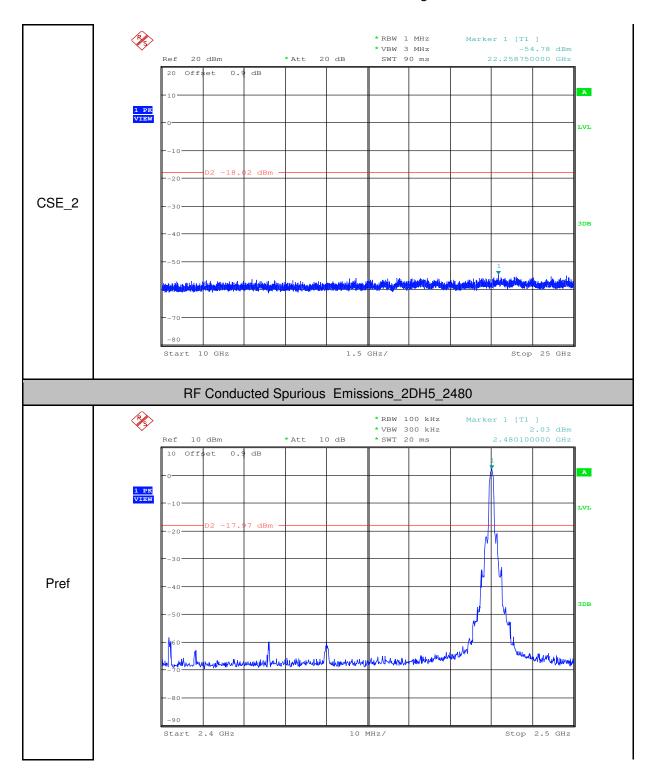
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Report No.: SZEM190601521102

Page: 146 of 152





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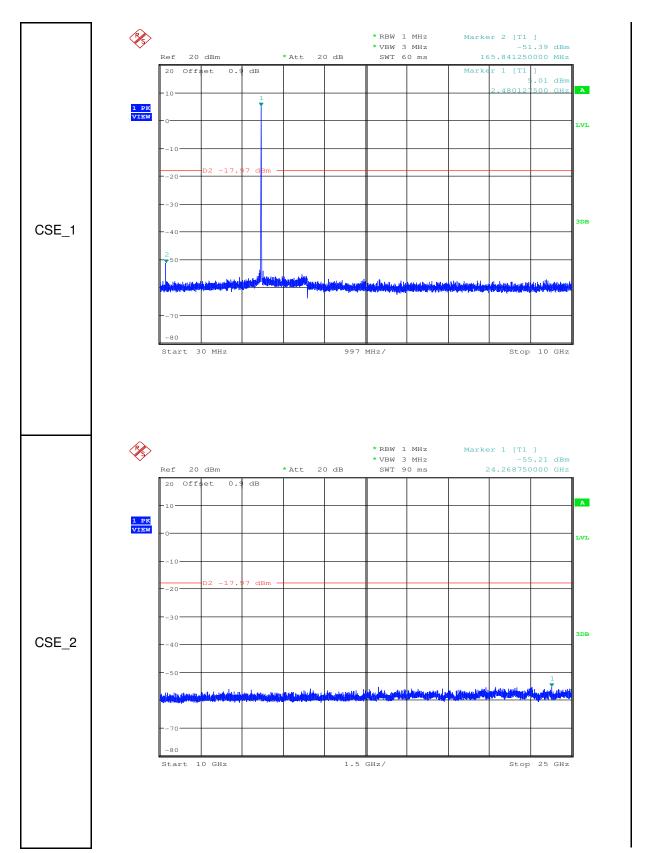
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Report No.: SZEM190601521102

Page: 147 of 152





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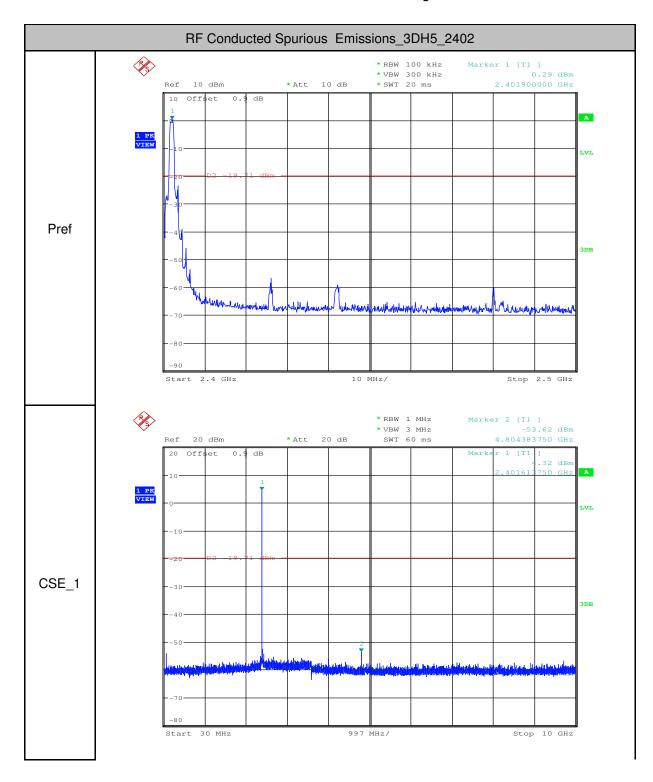
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Report No.: SZEM190601521102

Page: 148 of 152





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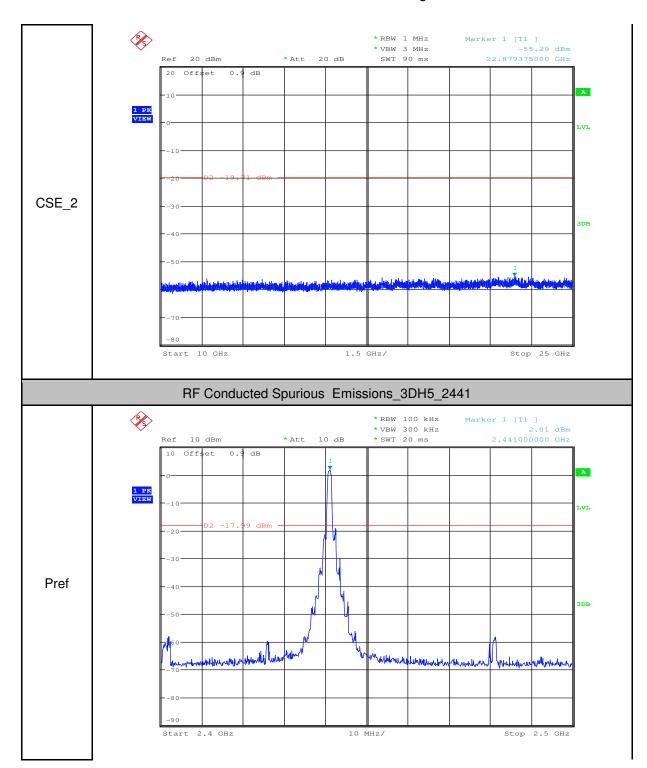
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Report No.: SZEM190601521102

Page: 149 of 152





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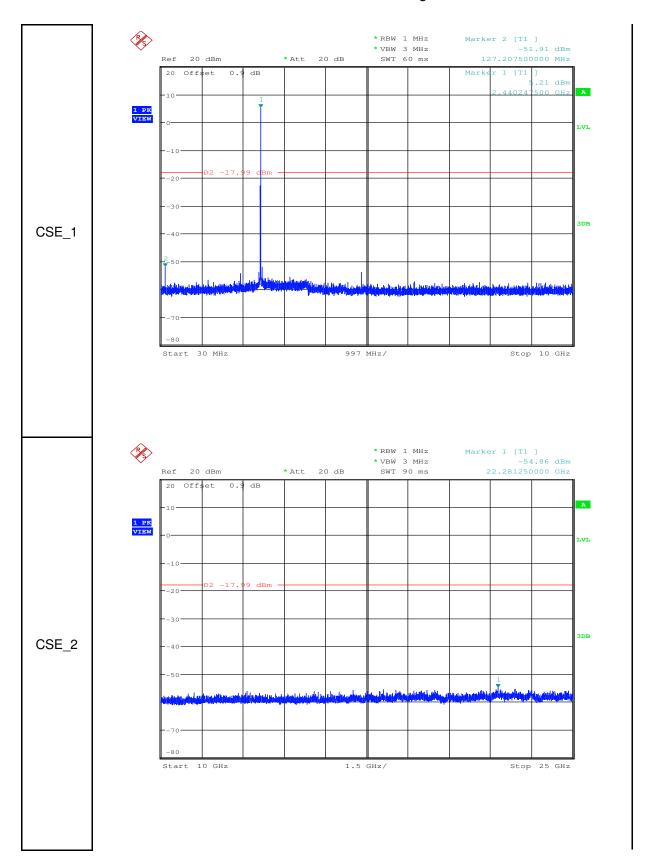
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Report No.: SZEM190601521102

Page: 150 of 152





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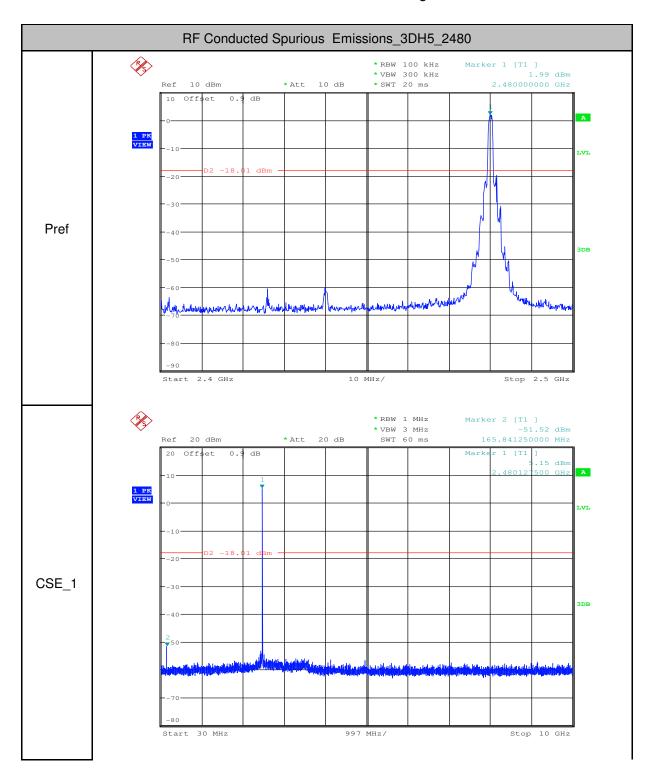
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Report No.: SZEM190601521102

Page: 151 of 152





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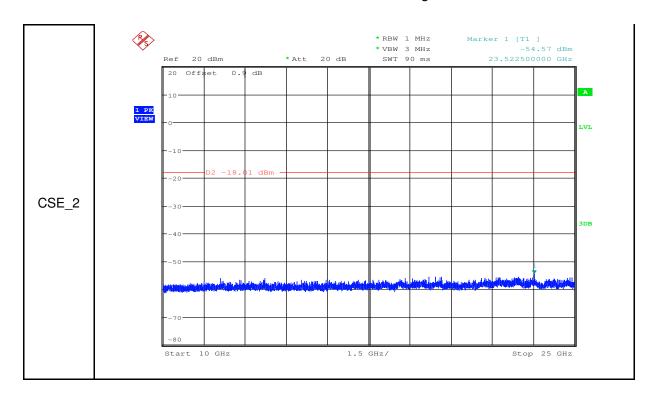
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Report No.: SZEM190601521102

Page: 152 of 152



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