

Report No.: SZEM200900871802

Page: 1 of 328

TEST REPORT

SZEM2009008718CR Application No.:

Applicant: SAGEMCOM BROADBAND SAS

Address of Applicant: 250 Route de l'Empereur - 92848 RUEIL MALMAISON CEDEX-FRANCE

Manufacturer: SAGEMCOM BROADBAND SAS

Address of Manufacturer: 250 Route de l'Empereur - 92848 RUEIL MALMAISON CEDEX- FRANCE

Factory: AGEMCOM BROADBAND SAS

Address of Factory: 250 Route de l'Empereur - 92848 RUEIL MALMAISON CEDEX-FRANCE

Equipment Under Test (EUT):

EUT Name: Home Hub 4000(FAST 5689)

Model No.: **FAST 5689** FCC ID: VW3FAST5689 Trade mark: **SAGEMCOM**

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

Date of Receipt: 2020-09-02

2020-09-03 to 2020-09-30 **Date of Test:**

2020-11-19 Date of Issue:

Test Result: Pass*

Keny Xu **EMC** Laboratory Manager

Ceny. xu



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



Report No.: SZEM200900871802

Page: 2 of 328

Revision Record					
Version	Chapter	Date	Modifier	Remark	
01		2020-11-19		Original	

Authorized for issue by:		
	Lardin	
	Leo Lai/Project Engineer	
	EvicFu	
	Eric Fu/Reviewer	



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Report No.: SZEM200900871802

Page: 3 of 328

2 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	

Radio Spectrum Matt	Radio Spectrum Matter Part					
Item	Standard	Method	Requirement	Result		
Conducted Peak	47 CFR Part 15,	ANSI C63.10 (2013)	47 CFR Part 15, Subpart	Pass		
Output Power	Subpart C 15.247	Section 11.9.1	C 15.247(b)(3)			
Minimum 6dB	47 CFR Part 15,	ANSI C63.10 (2013)	47 CFR Part 15, Subpart	Pass		
Bandwidth	Subpart C 15.247	Section 11.8.1	C 15.247a(2)			
Power Spectrum Density	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass		
Conducted Band	47 CFR Part 15,	ANSI C63.10 (2013)	47 CFR Part 15, Subpart	Pass		
Edges Measurement	Subpart C 15.247	Section 11.13.3.2	C 15.247(d)			
Conducted Spurious	47 CFR Part 15,	ANSI C63.10 (2013)	47 CFR Part 15, Subpart	Pass		
Emissions	Subpart C 15.247	Section 11.11	C 15.247(d)			
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	47 CFR Part 15,	ANSI C63.10 (2013)	47 CFR Part 15, Subpart	Pass		
Emissions	Subpart C 15.247	Section 6.4,6.5,6.6	C 15.205 & 15.209			
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass		



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Report No.: SZEM200900871802

Page: 4 of 328

Contents

			age				
1	COV	ER PAGE	1				
2	TES	TEST SUMMARY					
3	CON	ITENTS	2				
4	GEN	ERAL INFORMATION					
	4.1 4.2	DETAILS OF E.U.T. DESCRIPTION OF SUPPORT UNITS					
	4.3	MEASUREMENT UNCERTAINTY					
	4.4	TEST LOCATION.					
	4.5	TEST FACILITY	8				
	4.6	DEVIATION FROM STANDARDS					
	4.7	ABNORMALITIES FROM STANDARD CONDITIONS	9				
5	EQU	IPMENT LIST	10				
6	DAD	NO SPECTRUM TECHNICAL REQUIREMENT	4.				
0							
	6.1 <i>6.1.1</i>	ANTENNA REQUIREMENT					
		•					
7	RAD	NO SPECTRUM MATTER TEST RESULTS	15				
	7.1	CONDUCTED PEAK OUTPUT POWER	15				
	7.1.1	1 E.U.T. Operation	15				
	7.1.2	· · · · · · · · · · · · · · · · · · ·					
	7.1.3						
	7.1.4						
	7.2	MINIMUM 6DB BANDWIDTH					
	7.2.1 7.2.2	•					
	7.2.2	·					
	7.2.4	•					
	7.3	POWER SPECTRUM DENSITY					
	7.3.1						
	7.3.2	? Test Mode Description	19				
	7.3.3	B Test Setup Diagram	19				
	7.3.4						
	7.4	CONDUCTED BAND EDGES MEASUREMENT					
	7.4.1						
	7.4.2 7.4.3						
	7.4.3 7.4.4	· · · · · · · · · · · · · · · · · · ·					
	7. 4 .4 7.5	CONDUCTED SPURIOUS EMISSIONS					
	7.5.1						
	7.5.2	·					
	7.5.3	·					
	7.5.4	•					
	7.6	RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS	25				



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Report No.: SZEM200900871802

Page: 5 of 328

7.6.	1 E.U.T. Operation	25
7.6.		
7.6.	3 Test Setup Diagram	26
7.6.	4 Measurement Procedure and Data	26
7.7	RADIATED SPURIOUS EMISSIONS	91
7.7.	1 E.U.T. Operation	91
7.7.	2 Test Mode Description	91
7.7.	3 Test Setup Diagram	92
7.7.		
8 EMI	SSION TEST RESULTS	144
8.1	CONDUCTED EMISSIONS AT AC POWER LINE (150kHz-30MHz)	144
8.1.		
8.1.	·	
8.1.	,	
8.1.	· · · · · · · · · · · · · · · · · · ·	
9 TES	T SETUP PHOTO	148
10 EUT	CONSTRUCTIONAL DETAILS (EUT PHOTOS)	149
11 APF	PENDIX	150
11.1	APPENDIX FOR 15.247 - 2.4G WIFI-CDD	150
11.2	APPENDIX FOR 15.247 - 2.4G WIFI-11B&G-SISO	
11.3	APPENDIX FOR 15.247 - 2.4G WIFI-11B&G-SISO-ADJACENT CHANNEL	
11.4	APPENDIX FOR 15.247 - 2.4G WIFI-11AX-CDD	



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Report No.: SZEM200900871802

Page: 6 of 328

4 General Information

4.1 Details of E.U.T.

Test voltage:	120V~60Hz
Power adapter:	Model: MSA-Z5000IS12.0-60A-P
	Input: 100-120V~50/60Hz 1.5A Max,
	Output: DC 12V 5A
Operation Francisco	802.11b/g/n/ax(HT20/HE20): 2412MHz to 2462MHz
Operation Frequency:	802.11n/ax(HT40/HE40): 2422MHz to 2452MHz
	802.11b: DSSS (CCK, DQPSK, DBPSK)
Modulation Type:	802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Modulation Type.	802.11ax: OFDM&OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)
Number of Channels:	802.11802.11b/g/n(HT20)/ax(HE20): 11
Number of Channels.	802.11n(HT40)/ax(HE40):7
Channel Spacing:	5MHz
Antenna Type:	Internal Antenna

2.4G WiFi Power Setting

2.49 WIFI FOWEI Selling				
	802.11b n	node		
Test channel	Conducte	Conducted Setting		d Setting
rest channel	CDD	SISO	CDD	SISO
Lowest	94.00	116.00	94.00	116.00
Lowest+1	-	119.00	-	119.00
Middle	94.00	120.00	94.00	120.00
Highest-1	-	120.00	-	120.00
Highest	94.00	116.00	94.00	116.00
	802.11g n	node		
Test channel	Conducte	ed Setting	Radiated Setting	
rest channel	CDD	SISO	CDD	SISO
Lowest	95.00	110.00	95.00	110.00
Lowest+1	-	112.00	-	112.00
Middle	95.00	120.00	95.00	120.00
Highest-1	-	112.00	-	112.00
Highest	96.00	102.00	96.00	102.00
3	302.11n(HT2	0)mode		
Test channel	Conducte	ed Setting	Radiated	d Setting
rest channel	CDD	SISO	CDD	SISO
Lowest	94.00	-	94.00	-
Middle	94.00	-	94.00	-
Highest	92.00	-	92.00	-
3	302.11n(HT4	0)mode		
Test channel	Conducte	ed Setting	Radiated	d Setting



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Report No.: SZEM200900871802

Page: 7 of 328

	CDD	SISO	CDD	SISO
Lowest	86.00	-	86.00	-
Middle	94.00	-	94.00	-
Highest	86.00	-	86.00	-
802	2.11ax 20(H	Γ20)mode		
Test channel	Conducte	ed Setting	Radiated	d Setting
rest channel	CDD	SISO	CDD	SISO
Lowest	94.00	-	94.00	-
Middle	94.00	-	94.00	-
Highest	92.00	-	92.00	-
803	2.11ax 40(H ⁻	Γ40)mode		
Test channel	Conducte	ed Setting	Radiated	d Setting
rest channel	CDD	SISO	CDD	SISO
Lowest	86.00	-	86.00	-
Middle	94.00	-	94.00	-
Highest	86.00	-	86.00	-

Antenna Gain:

2.4G-1	2.4G-2	2.4G-3	DB-2 (2.4G)	5G-1	5G-2
Vertical (dipole)	Vertical (dipole)	Horizontal (dipole)	Horizontal (dipole)	Mix (PIFA)	Mix (PIFA)
5G-3	DB-2 (5G)	5G-4	5G-5	5G-6	DB-1 (5G)
Horizontal (dipole)	Horizontal (dipole)	Mix (PIFA)	Mix (PIFA)	Horizontal (dipole)	Horizontal (dipole)

Frequency (MHz)	E-total(dBi) ANT1	E-total(dBi) ANT2	E-total(dBi) ANT3	E-total(dBi) ANT4 (DB-2)	Peak Gain of 3D Directional pattern
2400	3.57	3.49	3.94	3.12	6.45
2450	3.85	3.35	3.85	2.52	6.78
2500	3.22	2.88	3.34	2.72	6.79

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Laptop	Lenovo	T430u	REF. No.SEA1800

Measurement Uncertainty

Test Item	Measurement Uncertainty



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Report No.: SZEM200900871802

Page: 8 of 328

Conducted Emissions at AC Power Line (150kHz-30MHz)	± 3.0dB (150kHz to 30MHz)
Conducted Peak Output Power	± 0.75dB
Minimum 6dB Bandwidth	± 3%
Power Spectrum Density	± 2.84dB
Conducted Band Edges Measurement	± 0.75dB
Conducted Spurious Emissions	± 0.75dB
Radiated Emissions which fall in the restricted bands	± 4.5dB (Below 1GHz);± 4.8dB (Above 1GHz)
Radiated Spurious Emissions	± 4.5dB (Below 1GHz);± 4.8dB (Above 1GHz)

Remark:

The U_{lab} (lab Uncertainty) is less than U_{cispr} (CISPR Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

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:

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

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Page: 9 of 328

4.7 Abnormalities from Standard Conditions

None



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Page: 10 of 328

Equipment List 5

Conducted Emissions at AC Power Line (150kHz-30MHz)						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2019-06-13	2022-06-12	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM024-01	2020-07-10	2021-07-09	
LISN	Rohde & Schwarz	ENV216	SEM007-01	2019-09-24	2021-09-22	
LISN	ETS-LINDGREN	3816/2	SEM007-02	2020-04-01	2021-03-31	
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2020-03-24	2021-03-23	

Minimum 6dB Bandwidth							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12		
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23		
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2021-09-22		
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09		
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	N/A	N/A		
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2021-09-22		
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2021-09-22		
Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27		

Conducted Peak Output Power						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12	
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23	
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2021-09-22	
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	N/A	N/A	
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2021-09-22	
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2021-09-22	
Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27	



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Report No.: SZEM200900871802

Page: 11 of 328

Power Spectrum Density							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12		
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23		
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2021-09-22		
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09		
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	N/A	N/A		
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2021-09-22		
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2021-09-22		
Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27		

Conducted Band Edges Measurement						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12	
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23	
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2021-09-22	
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	N/A	N/A	
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2021-09-22	
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2021-09-22	
Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27	



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Report No.: SZEM200900871802

Page: 12 of 328

Conducted Spurious Emissions						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12	
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23	
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2021-09-22	
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	N/A	N/A	
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2021-09-22	
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2021-09-22	
Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27	

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	2020-07-10	2021-07-09	
EXA Spectrum Analyzer	AgilentTechnologies Inc	N9010A	SEM004-12	2020-04-09	2021-04-08	
Horn Antenna	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12	
Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16	
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2019-09-24	2021-09-22	
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2020-04-01	2021-03-31	
Pre-amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2020-04-01	2021-03-31	
DC Power Supply	Zhao Xin	KXN-6020D	SEM011-08	2019-09-24	2021-09-22	
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2020-08-14	2023-08-13	



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Report No.: SZEM200900871802

Page: 13 of 328

Radiated Spurious Emissions (30MHz-1GHz)						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020-07-19	2023-07-18	
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2019-12-16	2020-12-15	
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-02	2019-05-24	2022-05-23	
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2020-04-01	2021-03-31	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM025-01	2020-07-10	2021-07-09	

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	2020-07-10	2021-07-09	
EXA Spectrum Analyzer	AgilentTechnologies Inc	N9010A	SEM004-12	2020-04-09	2021-04-08	
Horn Antenna	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12	
Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16	
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2019-09-24	2021-09-22	
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2020-04-01	2021-03-31	
Pre-amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2020-04-01	2021-03-31	
DC Power Supply	Zhao Xin	KXN-6020D	SEM011-08	2019-09-24	2021-09-22	
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2020-08-14	2023-08-13	

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	2019-09-26	2021-09-14	
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2019-09-26	2021-09-14	
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2019-09-26	2021-09-14	
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2020-04-07	2021-04-06	



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Report No.: SZEM200900871802

Page: 14 of 328

Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

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

Limit:

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 shall be considered sufficient to comply with the provisions of this section. 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 6.79dBi.

Antenna location: Refer to Internal photos.



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Page: 15 of 328

7 Radio Spectrum Matter Test Results

7.1 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247
Test Method: ANSI C63.10 (2013) Section 11.9.1

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				

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C Humidity: 56.2 % RH Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @8Mbps is the worst case of IEEE 802.11ax(HE20); data rate@16Mbps is the worst case of IEEE 802.11ax(HE40). Only the data of worst case is recorded in the report.



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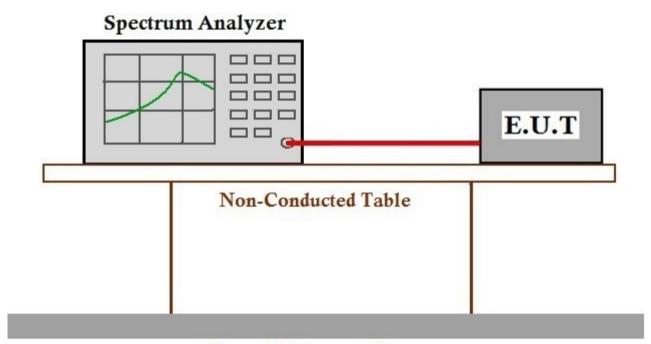
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Report No.: SZEM200900871802

Page: 16 of 328

7.1.3 Test Setup Diagram



Ground Reference Plane

7.1.4 Measurement Procedure and Data

Please Refer To Appendix For Details



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Page: 17 of 328

7.2 Minimum 6dB Bandwidth

47 CFR Part 15, Subpart C 15.247 Test Requirement Test Method: ANSI C63.10 (2013) Section 11.8.1

Limit:

≥500 kHz

7.2.1 E.U.T. Operation

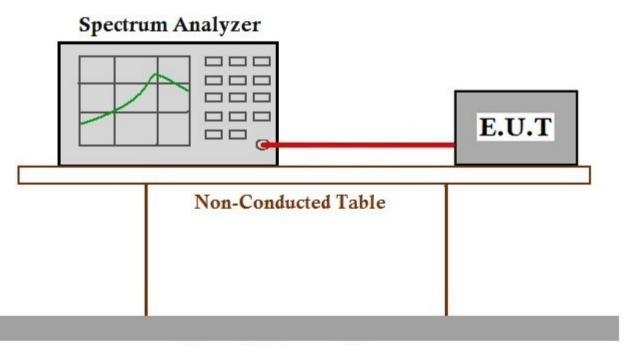
Operating Environment:

Temperature: 23.4 °C Humidity: 56.2 % RH Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

7.2.2 100t mode 2000 pton								
Pre-scan / Final test	Mode Code	Description						
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @8Mbps is the worst case of IEEE 802.11ax(HE20); data rate@16Mbps is the worst case of IEEE 802.11ax(HE40). Only the data of worst case is recorded in the report.						

7.2.3 Test Setup Diagram



Ground Reference Plane



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Page: 18 of 328

7.2.4 Measurement Procedure and Data

Please Refer To Appendix For Details



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Report No.: SZEM200900871802

Page: 19 of 328

7.3 Power Spectrum Density

Test Requirement 47 CFR Part 15, Subpart C 15.247 Test Method: ANSI C63.10 (2013) Section 11.10.2

Limit:

≤8dBm in any 3 kHz band during any time interval of continuous transmission

7.3.1 E.U.T. Operation

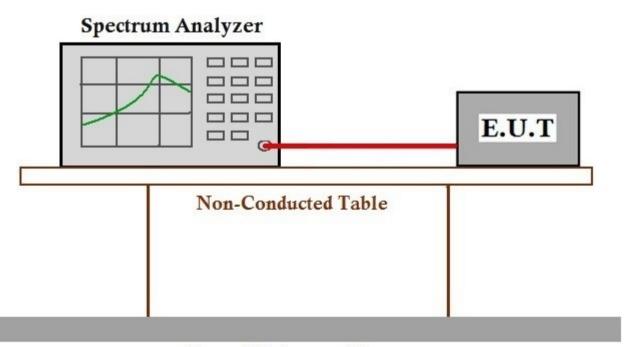
Operating Environment:

Temperature: 23.4 °C Humidity: 56.2 % RH Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @8Mbps is the worst case of IEEE 802.11ax(HE20); data rate@16Mbps is the worst case of IEEE 802.11ax(HE40). Only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram



Ground Reference Plane



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Page: 20 of 328

7.3.4 Measurement Procedure and Data

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Report No.: SZEM200900871802

Page: 21 of 328

7.4 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247
Test Method: ANSI C63.10 (2013) Section 11.13.3.2

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).

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 56.2 % RH Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @8Mbps is the worst case of IEEE 802.11ax(HE20); data rate@16Mbps is the worst case of IEEE 802.11ax(HE40). Only the data of worst case is recorded in the report.



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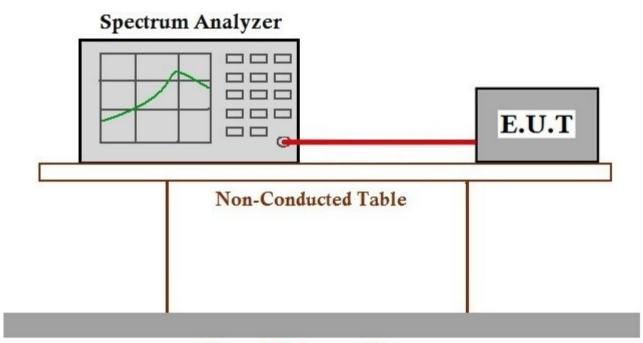
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Report No.: SZEM200900871802

Page: 22 of 328

7.4.3 Test Setup Diagram



Ground Reference Plane

7.4.4 Measurement Procedure and Data

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Report No.: SZEM200900871802

Page: 23 of 328

7.5 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247 Test Method: ANSI C63.10 (2013) Section 11.11

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).

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 56.2 % RH Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @8Mbps is the worst case of IEEE 802.11ax(HE20); data rate@16Mbps is the worst case of IEEE 802.11ax(HE40). Only the data of worst case is recorded in the report.



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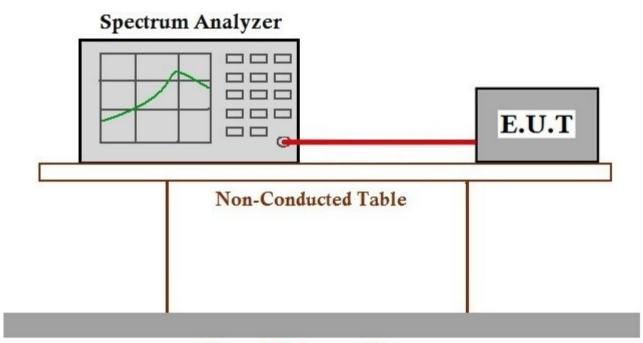
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Report No.: SZEM200900871802

Page: 24 of 328

7.5.3 Test Setup Diagram



Ground Reference Plane

7.5.4 Measurement Procedure and Data

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Report No.: SZEM200900871802

Page: 25 of 328

7.6 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.

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 56.2 % RH Atmospheric Pressure: 1010 mbar

7.6.2 Test Mode Description

7.0.2 Test mode besomption								
Pre-scan / Final test	Mode Code	Description						
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @8Mbps is the worst case of IEEE 802.11ax(HE20); data rate@16Mbps is the worst case of IEEE 802.11ax(HE40). Only the data of worst case is recorded in the report.						



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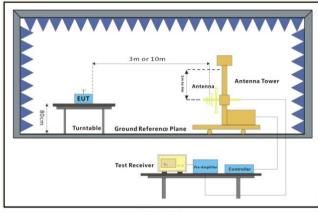
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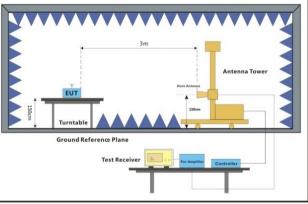


Report No.: SZEM200900871802

Page: 26 of 328

7.6.3 Test Setup Diagram





30MHz-1GHz

Above 1GHz

7.6.4 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.
- q. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.
- Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

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



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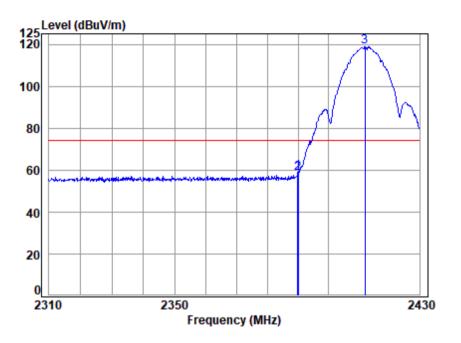
Report No.: SZEM200900871802

Page: 27 of 328

For SISO mode: ANT1 is the worst case among ANT1, ANT2, ANT3 and ANT4;

MIMO mode: ANT1 & ANT2 & ANT3 & ANT4 is the worst case.

Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 08718CR/08719CR Job No Mode : 2412 Band edge Note : 2.4G WIFI 11B

1TX

	. 11/	^							
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	2389.847	4.34	28.52	35.33	61.31	58.84	74.00	-15.16	peak
	2390.000	4.34	28.52	35.33	60.74	58.27	74.00	-15.73	peak
*	2412.000	4.38	28.56	35.31	121.09	118.72	74.00	44.72	peak



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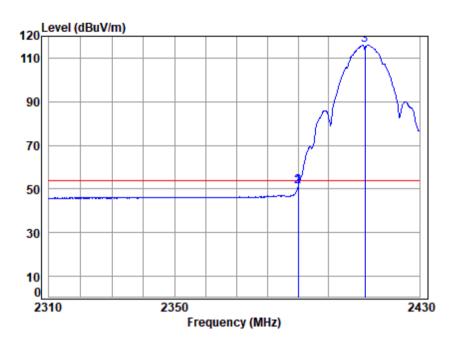
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Report No.: SZEM200900871802

Page: 28 of 328

Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 08718CR/08719CR Mode : 2412 Band edge Note : 2.4G WIFI 11B

: 1TX

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	4.34	28.52	35.33	53.65	51.18	54.00	-2.82	Average
2	2390.000	4.34	28.52	35.33	53.65	51.18	54.00	-2.82	Average
3 *	2412.000	4.38	28.56	35.31	118.36	115.99	54.00	61.99	Average



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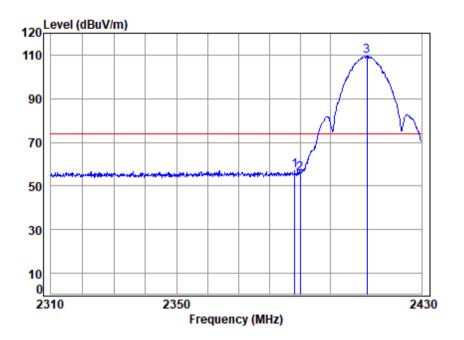
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Report No.: SZEM200900871802

Page: 29 of 328

Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 08718CR/08719CR Mode : 2412 Band edge Note : 2.4G WIFI 11B

: 1TX

	Freq		Ant Factor						Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2388.274	4.34	28.52	35.33	59.64	57.17	74.00	-16.83	Peak
2	2390.000	4.34	28.52	35.33	58.13	55.66	74.00	-18.34	Peak
3 :	* 2412.000	4.38	28.56	35.31	111.86	109.49	74.00	35.49	Peak



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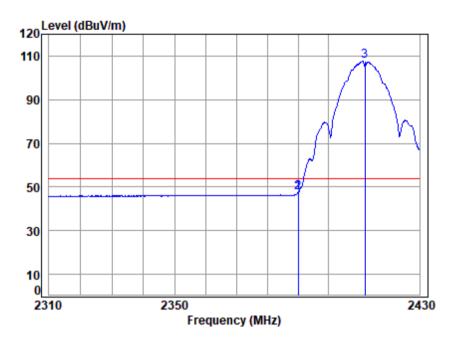
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Report No.: SZEM200900871802

Page: 30 of 328

Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 08718CR/08719CR Mode : 2412 Band edge Note : 2.4G WIFI 11B

: 1TX

			-							
		Freq						Limit Line		Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		2389.968	4.34	28.52	35.33	49.87	47.40	54.00	-6.60	Average
2		2390.000	4.34	28.52	35.33	49.87	47.40	54.00	-6.60	Average
3	*	2412.000	4.38	28.56	35.31	109.89	107.52	54.00	53.52	Average



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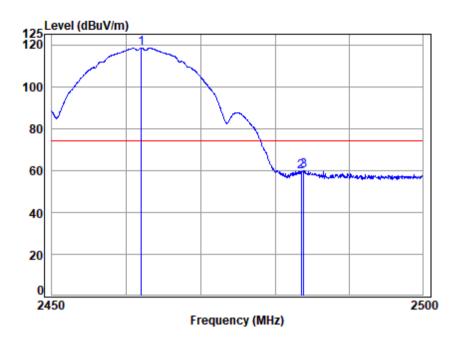
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Report No.: SZEM200900871802

Page: 31 of 328

Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 08718CR/08719CR Mode : 2462 Band edge Note : 2.4G WIFI 11B

: 1TX

	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 * 2462.000	4.46	28.64	35.29	120.69	118.50	74.00	44.50	peak
2 2483.500	4.49	28.67	35.28	61.32	59.20	74.00	-14.80	peak
3 2483.890	4.49	28.67	35.28	62.13	60.01	74.00	-13.99	peak



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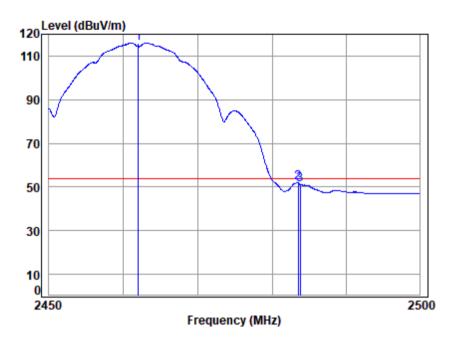
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Report No.: SZEM200900871802

Page: 32 of 328

Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 08718CR/08719CR Mode : 2462 Band edge Note : 2.4G WIFI 11B

: 1TX

		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 *	2462.000	4.46	28.64	35.29	118.16	115.97	54.00	61.97	Average
2	2483.500	4.49	28.67	35.28	53.97	51.85	54.00	-2.15	Average
3	2483.790								_
,	2403.730	4.47	20.07	33.20	33.34	31.22	54.00	-2.70	Average



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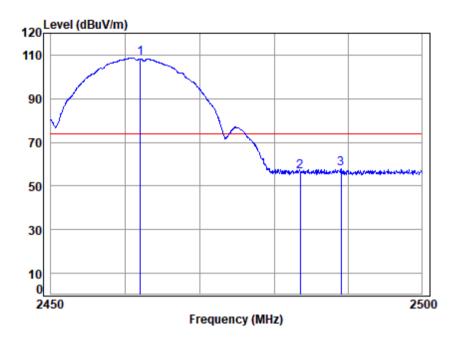
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Report No.: SZEM200900871802

Page: 33 of 328

Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 08718CR/08719CR Mode : 2462 Band edge Note : 2.4G WIFI 11B

: 1TX

	Freq		Ant Factor						Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 *	2462.000	4.46	28.64	35.29	110.80	108.61	74.00	34.61	Peak
2	2483.500	4.49	28.67	35.28	58.62	56.50	74.00	-17.50	Peak
3	2489.064	4.50	28.68	35.28	59.88	57.78	74.00	-16.22	Peak



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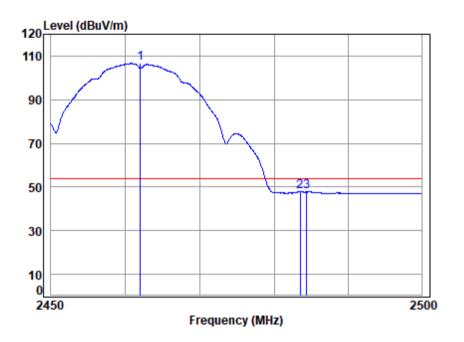
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Report No.: SZEM200900871802

Page: 34 of 328

Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 08718CR/08719CR Mode : 2462 Band edge Note : 2.4G WIFI 11B

: 1TX

		Freq						Limit Line		Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	*	2462.000	4.46	28.64	35.29	108.83	106.64	54.00	52.64	Average
2		2483.500	4.49	28.67	35.28	49.81	47.69	54.00	-6.31	Average
3		2484.392	4.50	28.67	35.28	49.90	47.79	54.00	-6.21	Average



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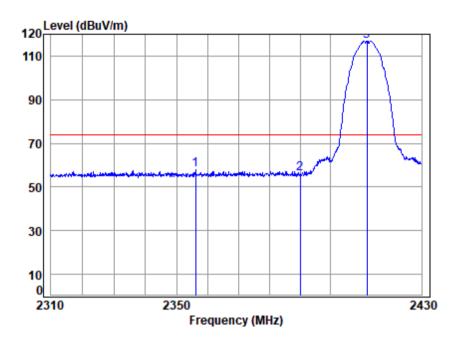
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Report No.: SZEM200900871802

Page: 35 of 328

Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 08718CR/08719CR Mode : 2412 Band edge Note : 2.4G WIFI 11B

: 4TX

	Freq		Ant Factor						Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2356.078	4.29	28.46	35.35	60.39	57.79	74.00	-16.21	peak
2	2390.000	4.34	28.52	35.33	58.63	56.16	74.00	-17.84	peak
3 ;	* 2412.000	4.38	28.56	35.31	119.28	116.91	74.00	42.91	peak



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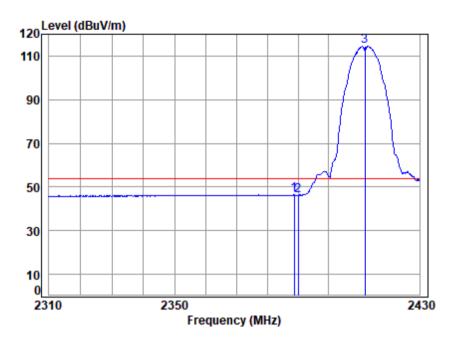
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Report No.: SZEM200900871802

Page: 36 of 328

Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 08718CR/08719CR Mode : 2412 Band edge Note : 2.4G WIFI 11B

: 4TX

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2388.758	4.34	28.52	35.33	48.80	46.33	54.00	-7.67	Average
2	2390.000	4.34	28.52	35.33	48.68	46.21	54.00	-7.79	Average
3 *	2412.000	4.38	28.56	35.31	116.82	114.45	54.00	60.45	Average



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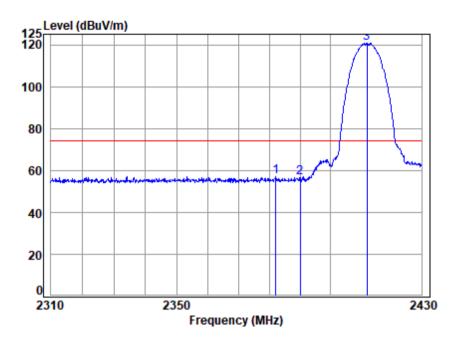
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Report No.: SZEM200900871802

Page: 37 of 328

Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 08718CR/08719CR Mode : 2412 Band edge Note : 2.4G WIFI 11B

: 4TX

	Freq		Ant Factor						Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2382.114	4.33	28.51	35.33	59.62	57.13	74.00	-16.87	Peak
2	2390.000	4.34	28.52	35.33	59.03	56.56	74.00	-17.44	Peak
3 *	2412.000	4.38	28.56	35.31	122.98	120.61	74.00	46.61	Peak



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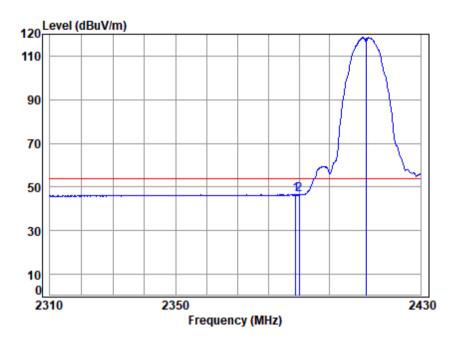
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Report No.: SZEM200900871802

Page: 38 of 328

Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 08718CR/08719CR Mode : 2412 Band edge Note : 2.4G WIFI 11B

: 4TX

		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	2388.879	4.34	28.52	35.33	48.91	46.44	54.00	-7.56	Average
2	2390.000	4.34	28.52	35.33	48.89	46.42	54.00	-7.58	Average
3	* 2412.000	4.38	28.56	35.31	120.83	118.46	54.00	64.46	Average



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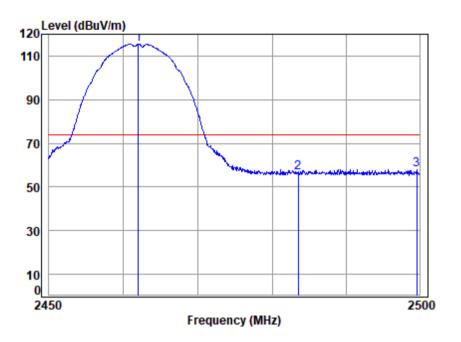
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Report No.: SZEM200900871802

Page: 39 of 328

Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 08718CR/08719CR Mode : 2462 Band edge Note : 2.4G WIFI 11B

: 4TX

	Freq		Ant Factor						Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	* 2462.000	4.46	28.64	35.29	117.60	115.41	74.00	41.41	peak
2	2483.500	4.49	28.67	35.28	58.70	56.58	74.00	-17.42	peak
3	2499.596	4.52	28.70	35.27	60.15	58.10	74.00	-15.90	peak



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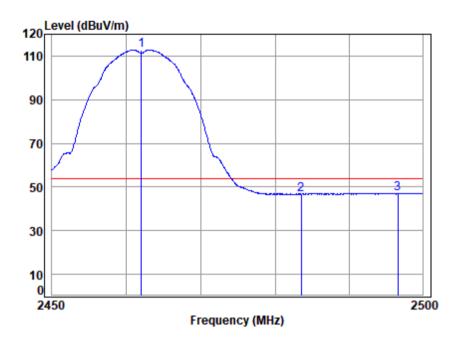
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Report No.: SZEM200900871802

Page: 40 of 328

Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 08718CR/08719CR Mode : 2462 Band edge Note : 2.4G WIFI 11B

: 4TX

	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 * 2462.000	4.46	28.64	35.29	114.93	112.74	54.00	58.74	Average
2 2483.500	4.49	28.67	35.28	48.88	46.76	54.00	-7.24	Average
3 2496.618	4.51	28.69	35.27	49.06	46.99	54.00	-7.01	Average



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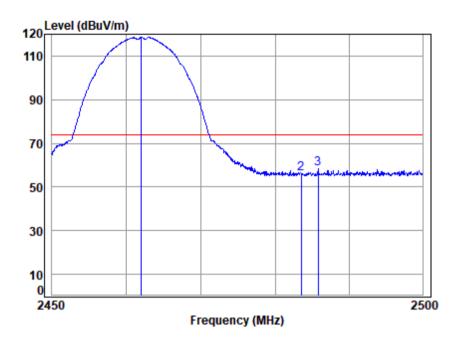
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Report No.: SZEM200900871802

Page: 41 of 328

Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 08718CR/08719CR Mode : 2462 Band edge Note : 2.4G WIFI 11B

: 4TX

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Line Limit Remark Freq Level Level dBuV dBuV/m dBuV/m MHz dB dB/m dB dB 1 * 2462.000 28.64 35.29 120.73 118.54 74.00 44.54 Peak 4.46 2483.500 4.49 28.67 35.28 58.35 56.23 74.00 -17.77 Peak 3 2485.848 4.50 28.68 35.28 60.32 58.22 74.00 -15.78 Peak



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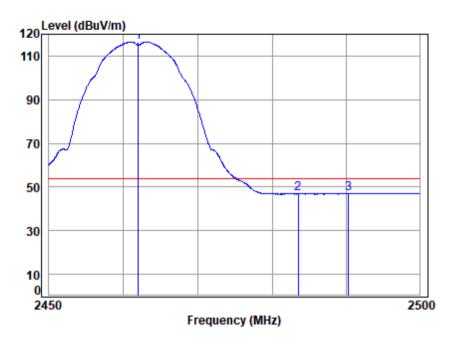
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Report No.: SZEM200900871802

Page: 42 of 328

Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 08718CR/08719CR Mode : 2462 Band edge Note : 2.4G WIFI 11B

: 4TX

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 *	2462.000	4.46	28.64	35.29	118.77	116.58	54.00	62.58	Average
2	2483.500	4.49	28.67	35.28	48.97	46.85	54.00	-7.15	Average
3	2490.372	4.50	28.68	35.27	49.15	47.06	54.00	-6.94	Average



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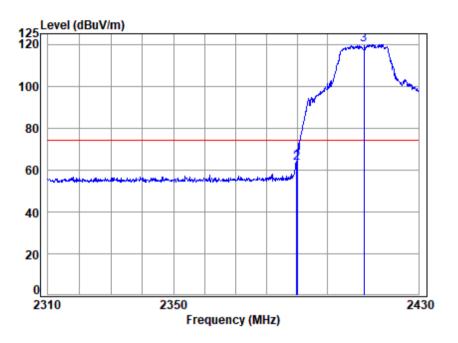
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Report No.: SZEM200900871802

Page: 43 of 328

Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL
Job No : 08718CR/08719CR
Mode : 2412 Band edge
Note : 2.4G WIFI 11G

: 1TX

		-							
	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	2389.847	4.34	28.52	35.33	66.55	64.08	74.00	-9.92	peak
	2390.000	4.34	28.52	35.33	65.88	63.41	74.00	-10.59	peak
*	2412.000	4.38	28.56	35.31	122.16	119.79	74.00	45.79	peak



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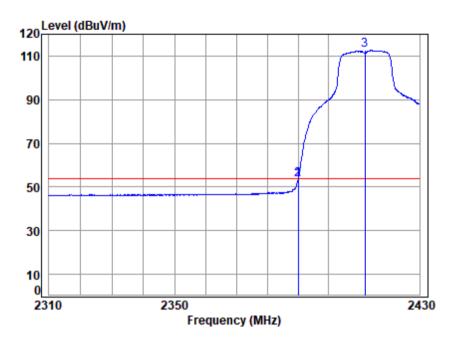
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Report No.: SZEM200900871802

Page: 44 of 328

Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 08718CR/08719CR Mode : 2412 Band edge Note : 2.4G WIFI 11G

: 1TX

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	4.34	28.52	35.33	55.68	53.21	54.00	-0.79	Average
2	2390.000	4.34	28.52	35.33	55.68	53.21	54.00	-0.79	Average
3 *	2412.000	4.38	28.56	35.31	114.90	112.53	54.00	58.53	Average



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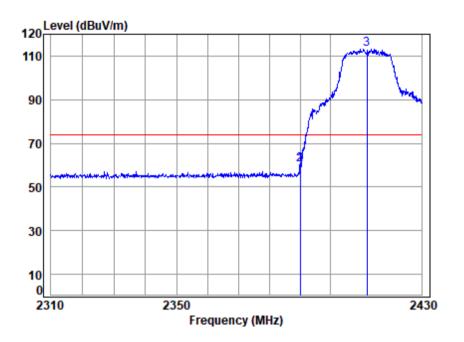
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Report No.: SZEM200900871802

Page: 45 of 328

Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 08718CR/08719CR Mode : 2412 Band edge Note : 2.4G WIFI 11G

: 1TX

	Freq		Ant Factor						Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	4.34	28.52	35.33	62.76	60.29	74.00	-13.71	Peak
2	2390.000	4.34	28.52	35.33	62.76	60.29	74.00	-13.71	Peak
3 *	2412.000	4.38	28.56	35.31	115.70	113.33	74.00	39.33	Peak



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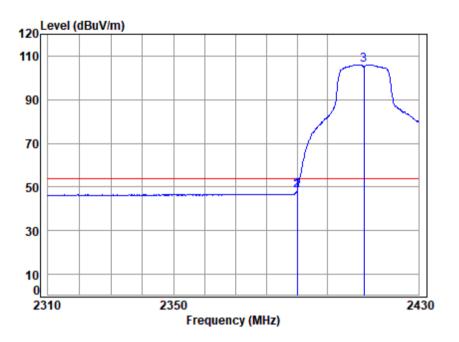
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Report No.: SZEM200900871802

Page: 46 of 328

Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 08718CR/08719CR Mode : 2412 Band edge Note : 2.4G WIFI 11G

: 1TX

		Freq						Limit Line		Remark	
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1		2389.968	4.34	28.52	35.33	50.62	48.15	54.00	-5.85	Average	
2		2390.000	4.34	28.52	35.33	50.62	48.15	54.00	-5.85	Average	
3	*	2412.000	4.38	28.56	35.31	108.42	106.05	54.00	52.05	Average	



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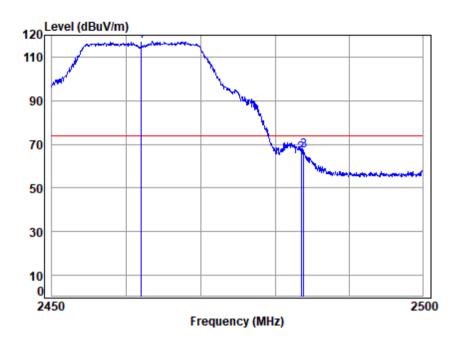
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Report No.: SZEM200900871802

Page: 47 of 328

Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 08718CR/08719CR Mode : 2462 Band edge Note : 2.4G WIFI 11G

: 1TX

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 *	2462.000	4.46	28.64	35.29	119.24	117.05	74.00	43.05	peak
2	2483.500	4.49	28.67	35.28	67.95	65.83	74.00	-8.17	peak
3	2483.840	4.49	28.67	35.28	69.09	66.97	74.00	-7.03	peak



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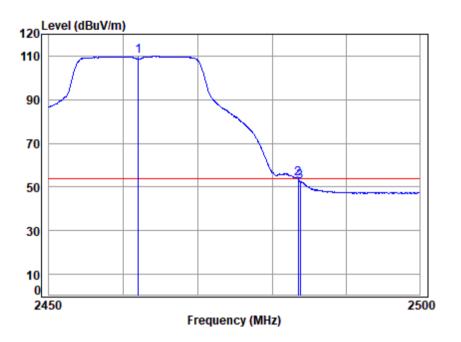
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Report No.: SZEM200900871802

Page: 48 of 328

Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 08718CR/08719CR Mode : 2462 Band edge Note : 2.4G WIFI 11G

: 1TX

		Freq						Limit Line		Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	*	2462.000	4.46	28.64	35.29	112.03	109.84	54.00	55.84	Average
2		2483.500	4.49	28.67	35.28	55.82	53.70	54.00	-0.30	Average
3		2483.790	4.49	28.67	35.28	54.55	52.43	54.00	-1.57	Average



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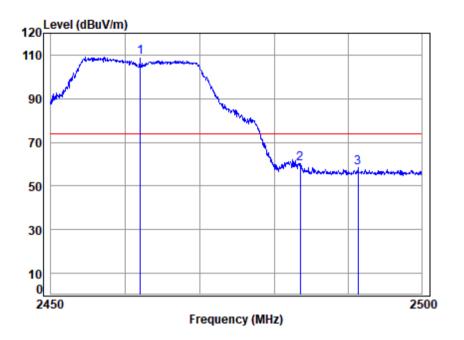
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Report No.: SZEM200900871802

Page: 49 of 328

Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 08718CR/08719CR Mode : 2462 Band edge Note : 2.4G WIFI 11G

: 1TX

	Freq		Ant Factor						Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 *	* 2462.000	4.46	28.64	35.29	111.02	108.83	74.00	34.83	Peak
2	2483.500	4.49	28.67	35.28	62.46	60.34	74.00	-13.66	Peak
3	2491.328	4.51	28.69	35.27	60.50	58.43	74.00	-15.57	Peak



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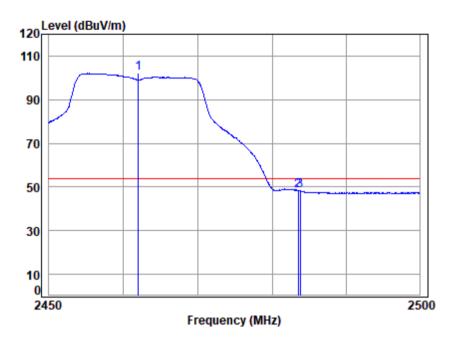
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Report No.: SZEM200900871802

Page: 50 of 328

Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 08718CR/08719CR Mode : 2462 Band edge Note : 2.4G WIFI 11G

: 1TX

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 *	2462.000	4.46	28.64	35.29	104.17	101.98	54.00	47.98	Average
2	2483.500	4.49	28.67	35.28	50.41	48.29	54.00	-5.71	Average
3	2483.790	4.49	28.67	35.28	50.35	48.23	54.00	-5.77	Average



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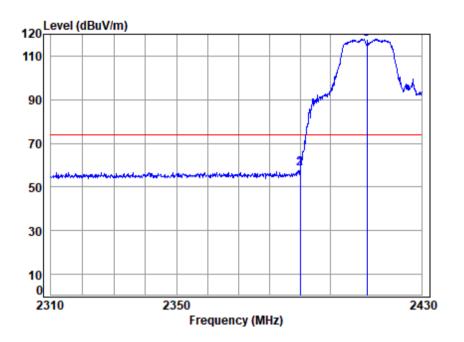
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Report No.: SZEM200900871802

Page: 51 of 328

Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 08718CR/08719CR Mode : 2412 Band edge Note : 2.4G WIFI 11G

: 4TX

	Freq					Level			Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	4.34	28.52	35.33	60.92	58.45	74.00	-15.55	peak
2	2390.000	4.34	28.52	35.33	60.92	58.45	74.00	-15.55	peak
3 *	2412.000	4.38	28.56	35.31	120.28	117.91	74.00	43.91	peak



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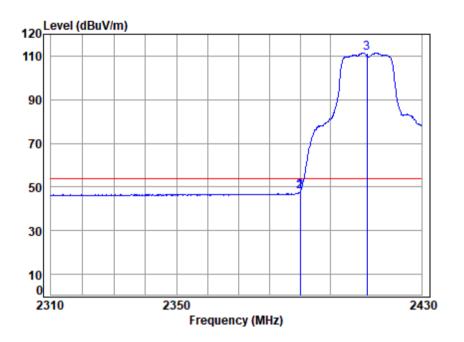
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Report No.: SZEM200900871802

Page: 52 of 328

Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 08718CR/08719CR Mode : 2412 Band edge Note : 2.4G WIFI 11G

: 4TX

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	4.34	28.52	35.33	50.30	47.83	54.00	-6.17	Average
2	2390.000	4.34	28.52	35.33	50.30	47.83	54.00	-6.17	Average
3 *	2412.000	4.38	28.56	35.31	113.60	111.23	54.00	57.23	Average



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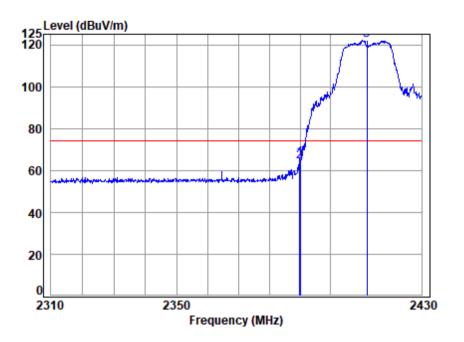
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Report No.: SZEM200900871802

Page: 53 of 328

Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 08718CR/08719CR Mode : 2412 Band edge Note : 2.4G WIFI 11G

: 4TX

	Freq		Ant Factor						Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.847	4.34	28.52	35.33	67.85	65.38	74.00	-8.62	Peak
2	2390.000	4.34	28.52	35.33	66.42	63.95	74.00	-10.05	Peak
3 *	2412.000	4.38	28.56	35.31	124.46	122.09	74.00	48.09	Peak



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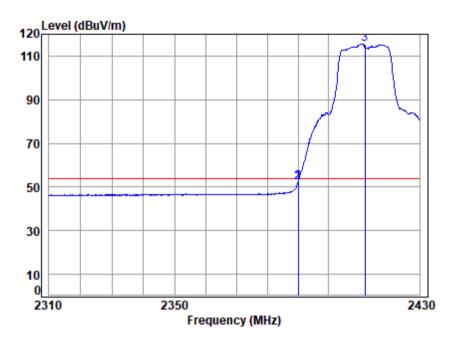
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Report No.: SZEM200900871802

Page: 54 of 328

Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 08718CR/08719CR Mode : 2412 Band edge Note : 2.4G WIFI 11G

: 4TX

		Freq						Limit Line		Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		2389.968	4.34	28.52	35.33	54.58	52.11	54.00	-1.89	Average
2		2390.000	4.34	28.52	35.33	54.58	52.11	54.00	-1.89	Average
3	*	2412.000	4.38	28.56	35.31	117.82	115.45	54.00	61.45	Average



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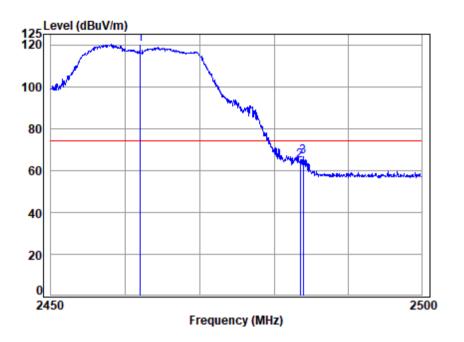
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Page: 55 of 328

Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 08718CR/08719CR Mode : 2462 Band edge Note : 2.4G WIFI 11G

: 4TX

			-							
			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	*	2462.000	4.46	28.64	35.29	122.21	120.02	74.00	46.02	peak
2		2483.500	4.49	28.67	35.28	66.62	64.50	74.00	-9.50	peak
3		2483.940	4.49	28.67	35.28	68.46	66.34	74.00	-7.66	peak



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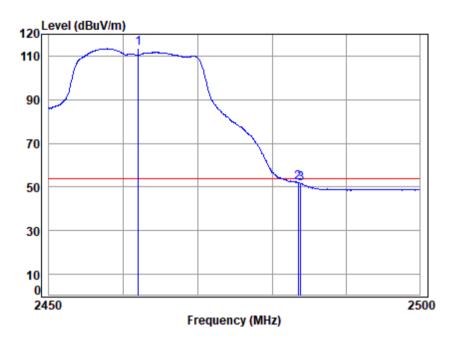
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Report No.: SZEM200900871802

Page: 56 of 328

Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 08718CR/08719CR Mode : 2462 Band edge Note : 2.4G WIFI 11G

: 4TX

	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 * 2462.000	4.46	28.64	35.29	115.58	113.39	54.00	59.39	Average
2 2483.500	4.49	28.67	35.28	54.30	52.18	54.00	-1.82	Average
3 2483.840	4.49	28.67	35.28	53.78	51.66	54.00	-2.34	Average
								_



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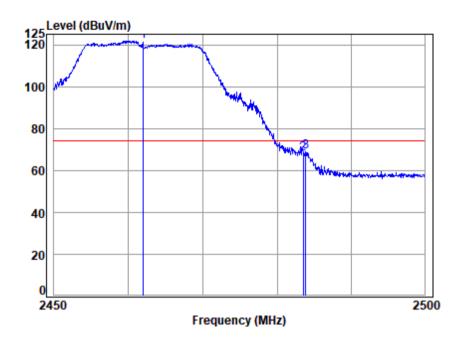
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Report No.: SZEM200900871802

Page: 57 of 328

Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 08718CR/08719CR Mode : 2462 Band edge Note : 2.4G WIFI 11G

: 4TX

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 *	2462.000	4.46	28.64	35.29	123.99	121.80	74.00	47.80	Peak
2	2483.500	4.49	28.67	35.28	70.31	68.19	74.00	-5.81	Peak
3	2483.840	4.49	28.67	35.28	70.98	68.86	74.00	-5.14	Peak



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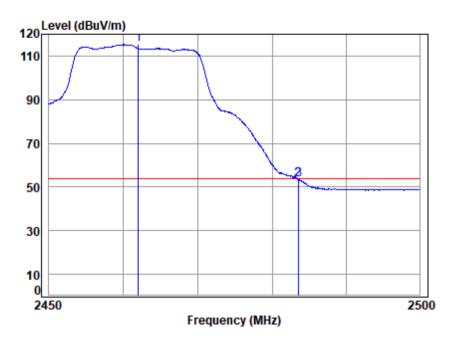
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Report No.: SZEM200900871802

Page: 58 of 328

Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 08718CR/08719CR Mode : 2462 Band edge Note : 2.4G WIFI 11G

: 4TX

			-								
		Freq						Limit Line		Remark	
	-	MHz	dB	dB/m	——dB	dBuV	dBuV/m	dBuV/m	dB		_
1										Average	
_		2483.500 2483.589								Average Average	



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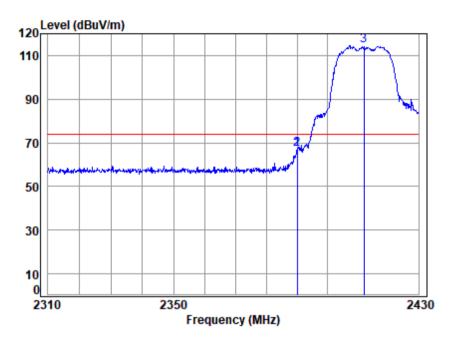
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Report No.: SZEM200900871802

Page: 59 of 328

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 08718CR/08719CR Mode : 2412 Band edge : 2.4G WIFI 11N20 Note

: 4TX

	Freq						Limit Line		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	2389.968								•
	2390.000	4.34	28.52	40.97	75.06	66.95	74.00	-7.05	peak
*	2412.000	4.38	28.56	40.98	122.77	114.73	74.00	40.73	peak



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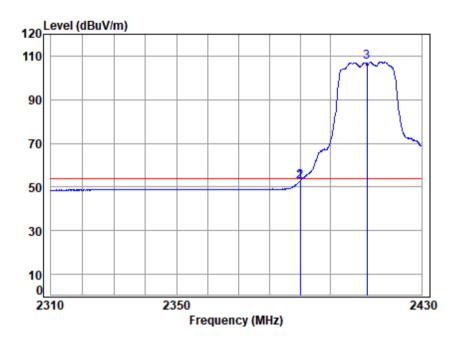
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Report No.: SZEM200900871802

Page: 60 of 328

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 08718CR/08719CR Mode : 2412 Band edge Note : 2.4G WIFI 11N20

: 4TX

		-								
	Freq						Limit Line		Remark	
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
1	2389.968	4.34	28.52	40.97	60.80	52.69	54.00	-1.31	Average	
2	2390.000	4.34	28.52	40.97	60.80	52.69	54.00	-1.31	Average	
3 *	2412.000	4.38	28.56	40.98	115.30	107.26	54.00	53.26	Average	



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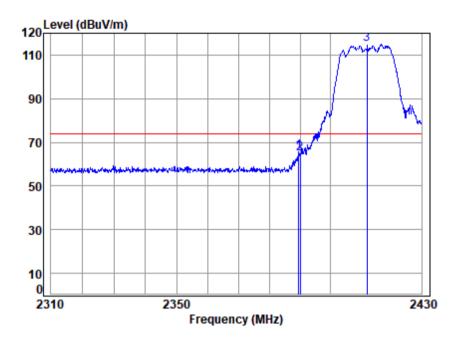
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Report No.: SZEM200900871802

Page: 61 of 328

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 08718CR/08719CR Mode : 2412 Band edge Note : 2.4G WIFI 11N20

: 4TX

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.605	4.34	28.52	40.97	73.81	65.70	74.00	-8.30	peak
2	2390.000	4.34	28.52	40.97	72.72	64.61	74.00	-9.39	peak
3 *	* 2412.000	4.38	28.56	40.98	122.98	114.94	74.00	40.94	peak



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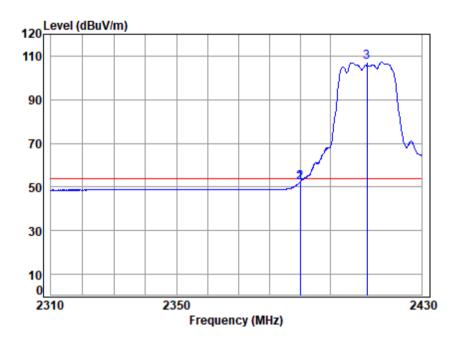
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Report No.: SZEM200900871802

Page: 62 of 328

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 08718CR/08719CR Mode : 2412 Band edge Note : 2.4G WIFI 11N20

: 4TX

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	4.34	28.52	40.97	60.34	52.23	54.00	-1.77	Average
2	2390.000	4.34	28.52	40.97	60.34	52.23	54.00	-1.77	Average
3 *	2412.000	4.38	28.56	40.98	115.19	107.15	54.00	53.15	Average



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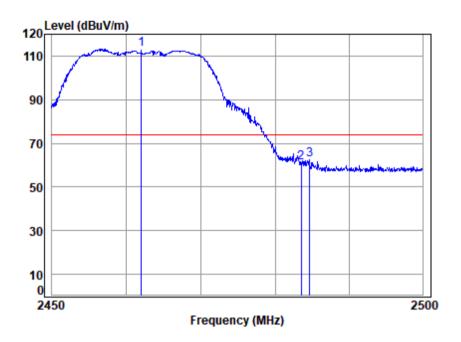
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Report No.: SZEM200900871802

Page: 63 of 328

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 08718CR/08719CR Mode : 2462 Band edge Note : 2.4G WIFI 11N20

: 4TX

	Freq		Ant Factor						Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 *	2462.000	4.46	28.64	41.00	121.16	113.26	74.00	39.26	peak
2	2483.500	4.49	28.67	41.01	69.10	61.25	74.00	-12.75	peak
3	2484.643	4.50	28.68	41.01	70.36	62.53	74.00	-11.47	peak



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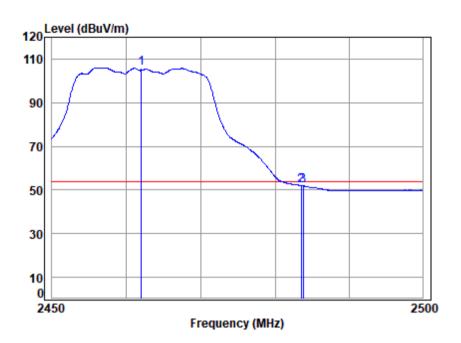
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Page: 64 of 328

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 08718CR/08719CR Mode : 2462 Band edge Note : 2.4G WIFI 11N20

: 4TX

	_						Limit		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 *	2462.000	4.46	28.64	41.00	113.84	105.94	54.00	51.94	Average
2	2483.500	4.49	28.67	41.01	59.86	52.01	54.00	-1.99	Average
3	2483.790	4.49	28.67	41.01	59.68	51.83	54.00	-2.17	Average



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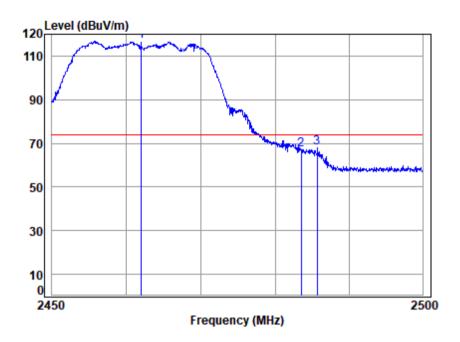
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Report No.: SZEM200900871802

Page: 65 of 328

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 08718CR/08719CR Mode : 2462 Band edge Note : 2.4G WIFI 11N20

: 4TX

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 *	* 2462.000	4.46	28.64	41.00	124.49	116.59	74.00	42.59	peak
2	2483.500	4.49	28.67	41.01	74.96	67.11	74.00	-6.89	peak
3	2485.697	4.50	28.68	41.01	75.77	67.94	74.00	-6.06	peak



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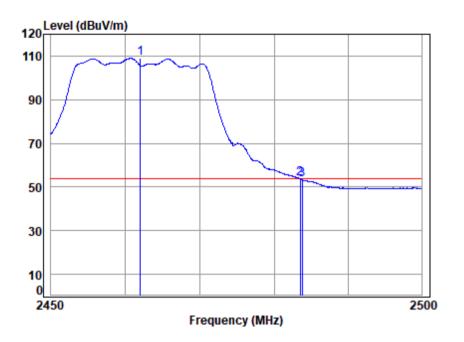
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Report No.: SZEM200900871802

Page: 66 of 328

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 08718CR/08719CR Mode : 2462 Band edge Note : 2.4G WIFI 11N20

: 4TX

	-								
Freq						Limit Line		Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
1 * 2462.000								_	
2 2483.500	4.49	28.67	41.01	61.58	53.73	54.00	-0.27	Average	
3 2483.790	4.49	28.67	41.01	61.05	53.20	54.00	-0.80	Average	



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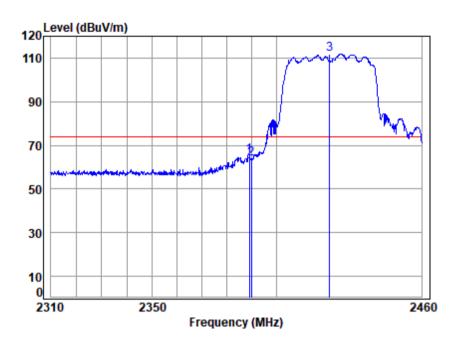
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Report No.: SZEM200900871802

Page: 67 of 328

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 08718CR/08719CR Mode : 2422 Band edge Note : 2.4G WIFI 11N40

: 4TX

	Freq		Ant Factor						Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.226	4.34	28.52	40.97	73.42	65.31	74.00	-8.69	peak
2	2390.000	4.34	28.52	40.97	71.78	63.67	74.00	-10.33	peak
3 *	2422.000	4.40	28.57	40.99	119.98	111.96	74.00	37.96	peak



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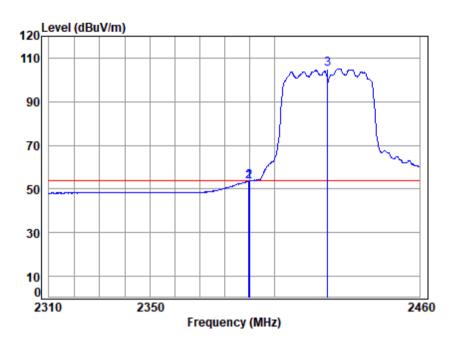
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Report No.: SZEM200900871802

Page: 68 of 328

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 08718CR/08719CR Mode : 2422 Band edge Note : 2.4G WIFI 11N40

: 4TX

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.827	4.34	28.52	40.97	61.70	53.59	54.00	-0.41	Average
2	2390.000	4.34	28.52	40.97	61.69	53.58	54.00	-0.42	Average
3 *	2422.000	4.40	28.57	40.99	113.11	105.09	54.00	51.09	Average



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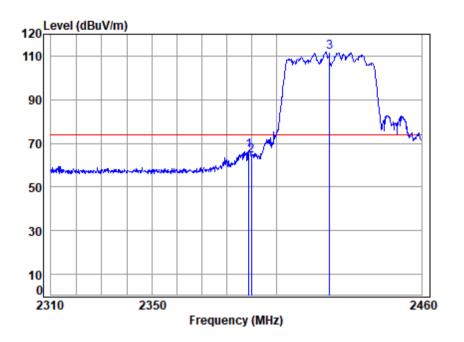
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Report No.: SZEM200900871802

Page: 69 of 328

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 08718CR/08719CR Mode : 2422 Band edge Note : 2.4G WIFI 11N40

: 4TX

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2388.925	4.34	28.52	40.97	74.92	66.81	74.00	-7.19	peak
2	2390.000	4.34	28.52	40.97	72.67	64.56	74.00	-9.44	peak
3 *	2422.000	4.40	28.57	40.99	119.67	111.65	74.00	37.65	peak



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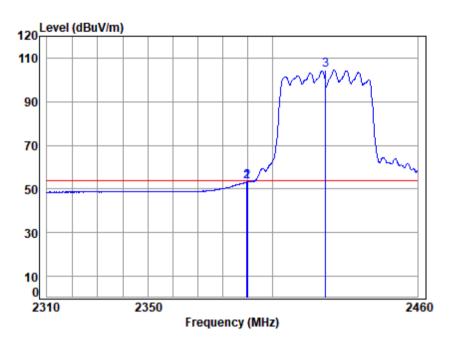
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Report No.: SZEM200900871802

Page: 70 of 328

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 08718CR/08719CR Mode : 2422 Band edge Note : 2.4G WIFI 11N40

: 4TX

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.827	4.34	28.52	40.97	61.33	53.22	54.00	-0.78	Average
2	2390.000	4.34	28.52	40.97	61.30	53.19	54.00	-0.81	Average
3 *	2422.000	4.40	28.57	40.99	112.42	104.40	54.00	50.40	Average



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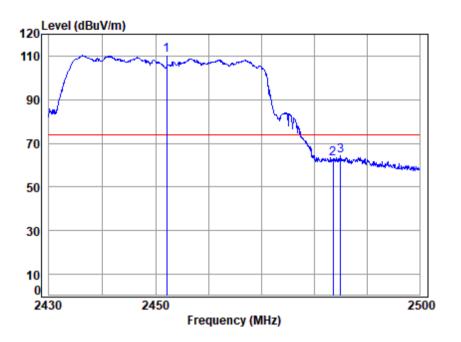
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Report No.: SZEM200900871802

Page: 71 of 328

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 08718CR/08719CR Mode : 2452 Band edge Note : 2.4G WIFI 11N40

: 4TX

	Freq		Ant Factor						Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	* 2452.000								•
2	2483.500	4.49	28.67	41.01	70.79	62.94	74.00	-11.06	peak
3	2484.923	4.50	28.68	41.01	72.10	64.27	74.00	-9.73	peak



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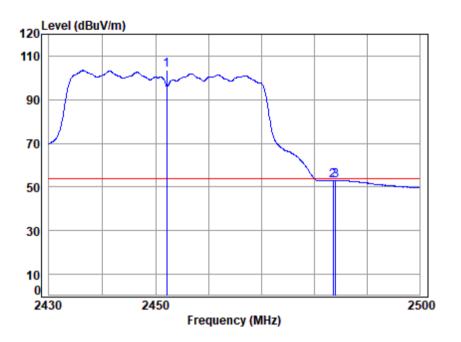
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Page: 72 of 328

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 08718CR/08719CR Mode : 2452 Band edge Note : 2.4G WIFI 11N40

: 4TX

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	* 2452.000	4.44	28.62	41.00	111.32	103.38	54.00	49.38	Average
2	2483.500	4.49	28.67	41.01	60.85	53.00	54.00	-1.00	Average
3	2483.935	4.49	28.67	41.01	60.92	53.07	54.00	-0.93	Average



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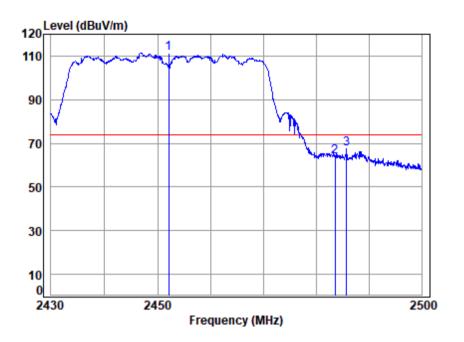
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Report No.: SZEM200900871802

Page: 73 of 328

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 08718CR/08719CR Mode : 2452 Band edge Note : 2.4G WIFI 11N40

: 4TX

	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 * 2452.000	4.44	28.62	41.00	119.38	111.44	74.00	37.44	peak
2 2483.500	4.49	28.67	41.01	71.55	63.70	74.00	-10.30	peak
3 2485.629	4.50	28.68	41.01	75.36	67.53	74.00	-6.47	peak



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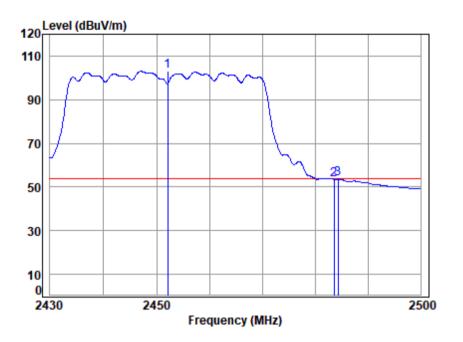
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Report No.: SZEM200900871802

Page: 74 of 328

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 08718CR/08719CR Mode : 2452 Band edge Note : 2.4G WIFI 11N40

: 4TX

	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 * 2452.000	4.44	28.62	41.00	110.94	103.00	54.00	49.00	Average
2 2483.500	4.49	28.67	41.01	61.37	53.52	54.00	-0.48	Average
3 2484.217	4.50	28.67	41.01	61.45	53.61	54.00	-0.39	Average



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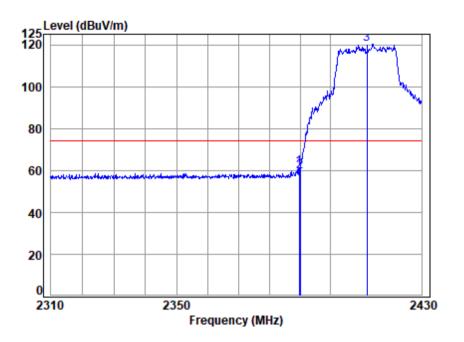
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Report No.: SZEM200900871802

Page: 75 of 328

Test Mode: 00; Polarity: Horizontal; Bandwidth: 20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 08718CR/08719CR Mode : 2412 Band edge : 2.4G WIFI 11ax20 Note

: 4TX

	Freq					Level			Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.726	4.34	28.52	35.33	63.91	61.44	74.00	-12.56	peak
2	2390.000	4.34	28.52	35.33	61.73	59.26	74.00	-14.74	peak
3 *	2412.000	4.38	28.56	35.31	122.55	120.18	74.00	46.18	peak



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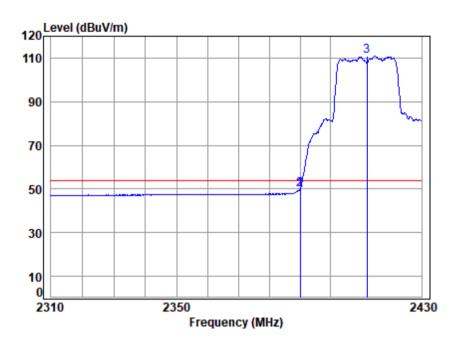
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Report No.: SZEM200900871802

Page: 76 of 328

Test Mode: 00; Polarity: Horizontal; Bandwidth: 20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 08718CR/08719CR Mode : 2412 Band edge : 2.4G WIFI 11ax20 Note

: 4TX

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	4.34	28.52	35.33	52.20	49.73	54.00	-4.27	Average
2	2390.000	4.34	28.52	35.33	52.20	49.73	54.00	-4.27	Average
3 *	2412.000	4.38	28.56	35.31	113.34	110.97	54.00	56.97	Average



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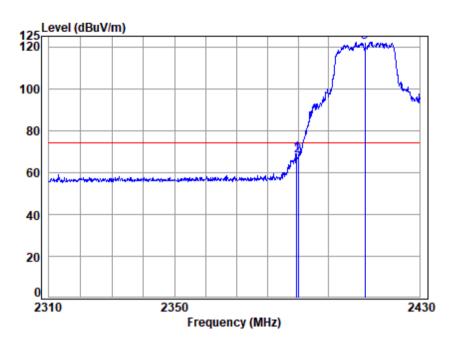
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Report No.: SZEM200900871802

Page: 77 of 328

Test Mode: 00; Polarity: Vertical; Bandwidth: 20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 08718CR/08719CR Mode : 2412 Band edge Note : 2.4G WIFI 11ax20

: 4TX

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.484	4.34	28.52	35.33	71.51	69.04	74.00	-4.96	Peak
2	2390.000	4.34	28.52	35.33	70.52	68.05	74.00	-5.95	Peak
3 *	2412.000	4.38	28.56	35.31	124.56	122.19	74.00	48.19	Peak



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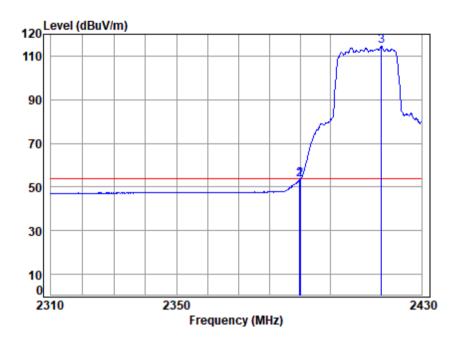
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Report No.: SZEM200900871802

Page: 78 of 328

Test Mode: 00; Polarity: Vertical; Bandwidth: 20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 08718CR/08719CR Mode : 2412 Band edge : 2.4G WIFI 11ax20 Note

: 4TX

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.847	4.34	28.52	35.33	55.72	53.25	54.00	-0.75	Average
2	2390.000	4.34	28.52	35.33	55.95	53.48	54.00	-0.52	Average
3 *	2416.745	4.39	28.56	35.31	116.82	114.46	54.00	60.46	Average



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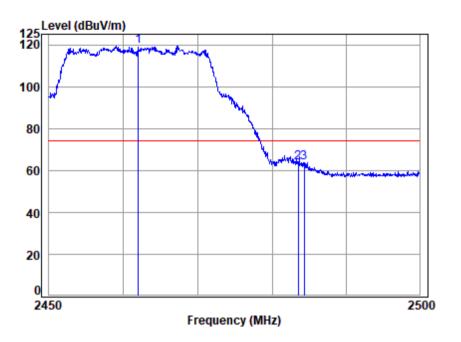
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Report No.: SZEM200900871802

Page: 79 of 328

Test Mode: 00; Polarity: Horizontal; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 08718CR/08719CR Mode : 2462 Band edge : 2.4G WIFI 11ax20 Note

: 4TX

	Freq		Ant Factor						Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	* 2462.000	4.46	28.64	35.29	121.47	119.28	74.00	45.28	peak
2	2483.500	4.49	28.67	35.28	65.79	63.67	74.00	-10.33	peak
3	2484.342	4.50	28.67	35.28	66.00	63.89	74.00	-10.11	peak



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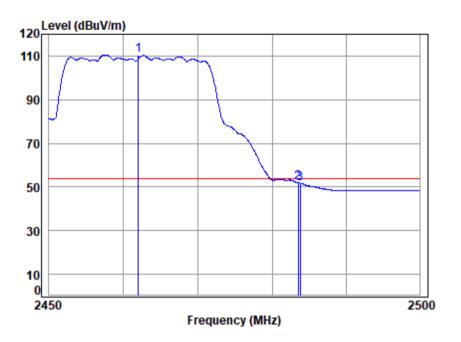
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Report No.: SZEM200900871802

Page: 80 of 328

Test Mode: 00; Polarity: Horizontal; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 08718CR/08719CR Mode : 2462 Band edge : 2.4G WIFI 11ax20 Note

: 4TX

		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 *	2462.000	4.46	28.64	35.29	112.80	110.61	54.00	56.61	Average
2	2483.500	4.49	28.67	35.28	54.22	52.10	54.00	-1.90	Average
3	2483.790	4.49	28.67	35.28	53.89	51.77	54.00	-2.23	Average
2		4.49	28.67	35.28	54.22	52.10	54.00	-1.90	Average



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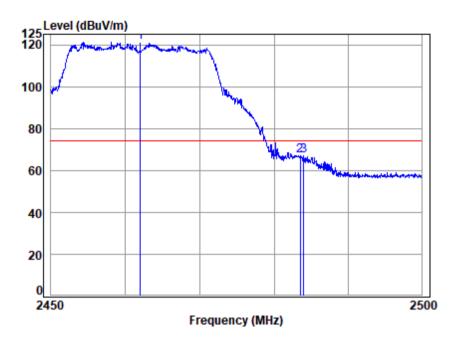
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Report No.: SZEM200900871802

Page: 81 of 328

Test Mode: 00; Polarity: Vertical; Bandwidth: 20MHz; Channel: High



Site : chamber Condition: 3m VERTICAL

Job No : 08718CR/08719CR Mode : 2462 Band edge Note : 2.4G WIFI 11ax20

: 4TX

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 *	2462.000	4.46	28.64	35.29	123.60	121.41	74.00	47.41	Peak
2	2483.500	4.49	28.67	35.28	68.95	66.83	74.00	-7.17	Peak
3	2483.990	4.49	28.67	35.28	68.97	66.85	74.00	-7.15	Peak



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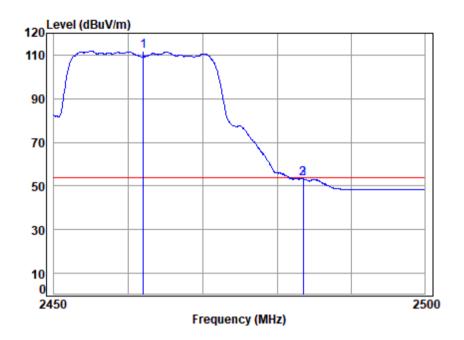
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Report No.: SZEM200900871802

Page: 82 of 328

Test Mode: 00; Polarity: Vertical; Bandwidth: 20MHz; Channel: High



Site : chamber Condition: 3m VERTICAL

Job No : 08718CR/08719CR Mode : 2462 Band edge Note : 2.4G WIFI 11ax20

: 4TX

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MII-					JD: 3//	JD: 4//		
	MHZ	ав	ab/m	ав	abuv	dBuV/m	abuv/m	dB	
1 *	2462.000	4.45	28.63	35.29	114.16	111.95	54.00	57.95	Average
2	2483.500	4.49	28.67	35.28	55.41	53.29	54.00	-0.71	Average
3	2483.539	4.49	28.67	35.28	55.40	53.28	54.00	-0.72	Average



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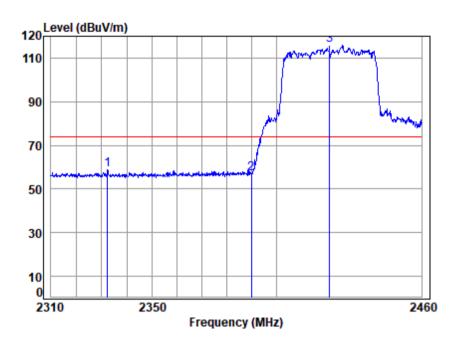
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Report No.: SZEM200900871802

Page: 83 of 328

Test Mode: 00; Polarity: Horizontal; Bandwidth: 40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 08718CR/08719CR Mode : 2422 Band edge : 2.4G WIFI 11ax40 Note

: 4TX

	Freq		Ant Factor						Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2332.343	4.25	28.42	35.37	61.67	58.97	74.00	-15.03	peak
2	2390.000	4.34	28.52	35.33	59.59	57.12	74.00	-16.88	peak
3 *	2422.000	4.40	28.57	35.31	118.31	115.97	74.00	41.97	peak



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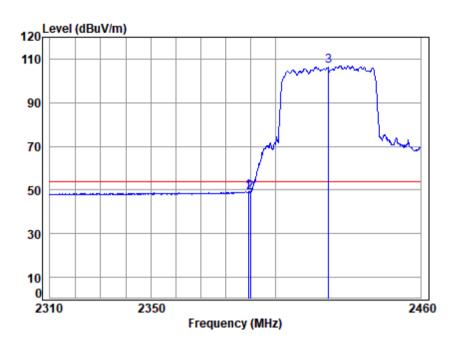
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Report No.: SZEM200900871802

Page: 84 of 328

Test Mode: 00; Polarity: Horizontal; Bandwidth: 40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 08718CR/08719CR Mode : 2422 Band edge : 2.4G WIFI 11ax40 Note

: 4TX

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.075	4.34	28.52	35.33	51.88	49.41	54.00	-4.59	Average
2	2390.000	4.34	28.52	35.33	51.50	49.03	54.00	-4.97	Average
3 *	2422.000	4.40	28.57	35.31	109.29	106.95	54.00	52.95	Average



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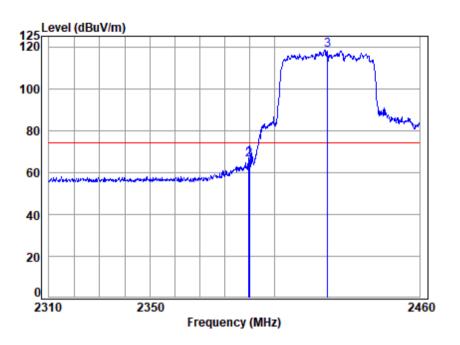
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Report No.: SZEM200900871802

Page: 85 of 328

Test Mode: 00; Polarity: Vertical; Bandwidth: 40MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 08718CR/08719CR Mode : 2422 Band edge : 2.4G WIFI 11ax40 Note

: 4TX

	Freq						Limit Line		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.827	4.34	28.52	35.33	69.45	66.98	74.00	-7.02	Peak
2	2390.000	4.34	28.52	35.33	68.47	66.00	74.00	-8.00	Peak
3 *	2422.000	4.40	28.57	35.31	120.62	118.28	74.00	44.28	Peak



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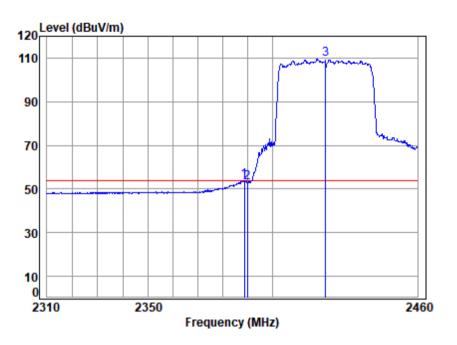
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Report No.: SZEM200900871802

Page: 86 of 328

Test Mode: 00; Polarity: Vertical; Bandwidth: 40MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 08718CR/08719CR Mode : 2422 Band edge : 2.4G WIFI 11ax40 Note

: 4TX

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2388.775	4.34	28.52	35.33	56.11	53.64	54.00	-0.36	Average
2	2390.000	4.34	28.52	35.33	55.39	52.92	54.00	-1.08	Average
3 *	2422.000	4.39	28.57	35.31	111.74	109.39	54.00	55.39	Average



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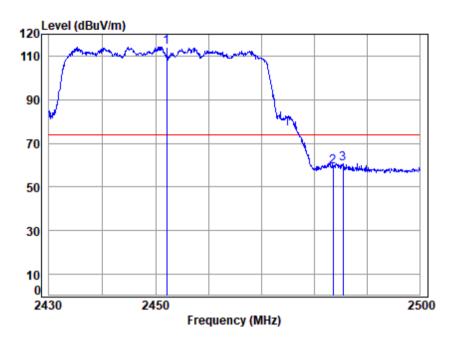
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Report No.: SZEM200900871802

Page: 87 of 328

Test Mode: 00; Polarity: Horizontal; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 08718CR/08719CR Mode : 2452 Band edge : 2.4G WIFI 11ax40 Note

: 4TX

	Freq		Ant Factor						Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 *	2452.000	4.44	28.62	35.29	116.51	114.28	74.00	40.28	peak
2	2483.500	4.49	28.67	35.28	61.66	59.54	74.00	-14.46	peak
3	2485.346	4.50	28.68	35.28	62.98	60.88	74.00	-13.12	peak



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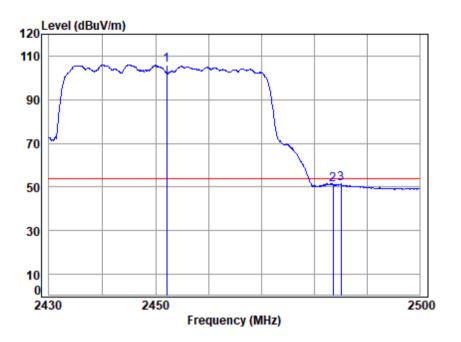
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Report No.: SZEM200900871802

Page: 88 of 328

Test Mode: 00; Polarity: Horizontal; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 08718CR/08719CR Mode : 2452 Band edge : 2.4G WIFI 11ax40 Note

: 4TX

	-								
Freq						Limit Line		Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 * 2452.000								_	
2 2483.500	4.49	28.67	35.28	53.11	50.99	54.00	-3.01	Average	
3 2484.993	4.50	28.68	35.28	53.63	51.53	54.00	-2.47	Average	



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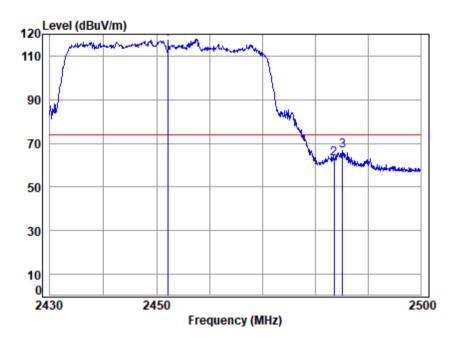
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Report No.: SZEM200900871802

Page: 89 of 328

Test Mode: 00; Polarity: Vertical; Bandwidth: 40MHz; Channel: High



Site : chamber Condition: 3m VERTICAL

Job No : 08718CR/08719CR Mode : 2452 Band edge : 2.4G WIFI 11ax40 Note

: 4TX

		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 *	2452.000	4.44	28.62	35.29	119.95	117.72	74.00	43.72	Peak
2	2483.500	4.49	28.67	35.28	64.97	62.85	74.00	-11.15	Peak
3	2485.135	4.50	28.68	35.28	68.70	66.60	74.00	-7.40	Peak



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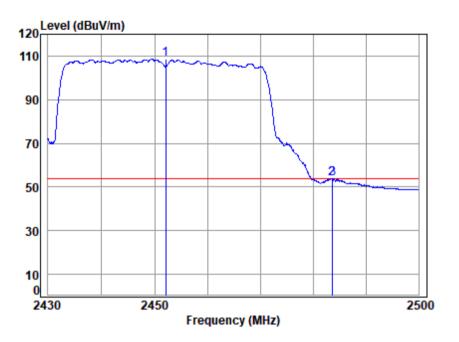
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Report No.: SZEM200900871802

Page: 90 of 328

Test Mode: 00; Polarity: Vertical; Bandwidth: 40MHz; Channel: High



Site : chamber Condition: 3m VERTICAL

Job No : 08718CR/08719CR Mode : 2452 Band edge : 2.4G WIFI 11ax40 Note

: 4TX

Freq						Limit Line		Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
1 * 2452.000	4.44	28.62	35.30	110.77	108.53	54.00	54.53	Average	
2 2483.500	4.49	28.67	35.28	55.77	53.65	54.00	-0.35	Average	
3 2483.583	4.49	28.67	35.28	55.77	53.65	54.00	-0.35	Average	



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Page: 91 of 328

7.7 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.

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 56.2 % RH Atmospheric Pressure: 1010 mbar

7.7.2 Test Mode Description

		In the second secon
Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @8Mbps is the worst case of IEEE 802.11ax(HE20); data rate@16Mbps is the worst case of IEEE 802.11ax(HE40). Only the data of worst case is recorded in the report.



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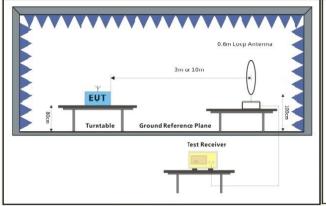
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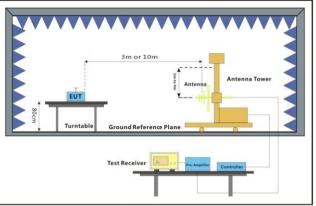


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Page: 92 of 328

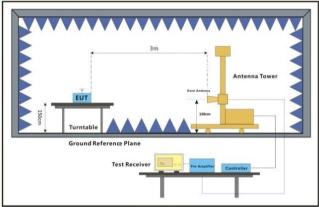
7.7.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz



Above 1GHz



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Page: 93 of 328

7.7.4 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.
- i. 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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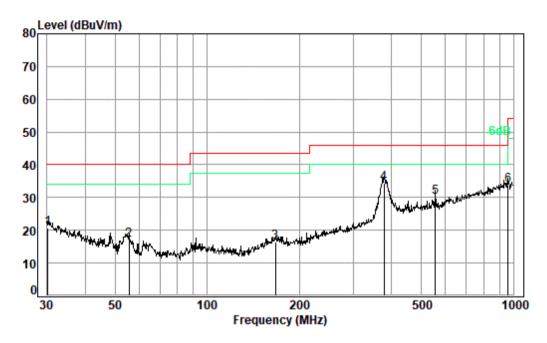
Report No.: SZEM200900871802

Page: 94 of 328

For SISO mode: ANT1 is the worst case among ANT1, ANT2, ANT3 and ANT4;

MIMO mode: ANT1 & ANT2 & ANT3 & ANT4 is the worst case.

Test Mode: 00; Polarity: Horizontal



Condition: 3m HORIZONTAL : 08718CR/08719CR Job No.

Test Mode: 00

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.21	0.60	22.84	27.73	25.11	20.82	40.00	-19.18	QP
2	55.61	0.76	13.02	27.67	30.79	16.90	40.00	-23.10	QP
3	167.24	1.17	15.55	27.26	26.90	16.36	43.50	-27.14	QP
4 pp	378.58	2.24	22.20	27.29	37.25	34.40	46.00	-11.60	QP
5	556.77	2.62	25.03	27.99	30.57	30.23	46.00	-15.77	QP
6	962.16	3.56	29.50	26.84	27.53	33.75	54.00	-20.25	QP



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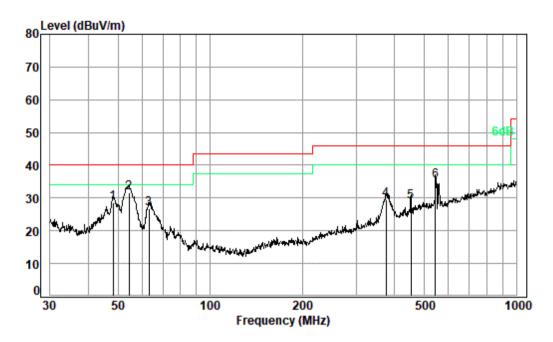
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Report No.: SZEM200900871802

Page: 95 of 328

Test Mode: 00; Polarity: Vertical



Condition: 3m VERTICAL : 08718CR/08719CR Job No.

Test Mode: 00

	Freq			Preamp Factor					Remark
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	48.16	0.70	14.56	27.69	40.97	28.54	40.00	-11.46	QP
2 pp	54.26	0.74	13.42	27.67	45.28	31.77	40.00	-8.23	QP
3	63.09	0.80	12.84	27.66	40.74	26.72	40.00	-13.28	QP
4	375.94	2.24	22.20	27.28	32.46	29.62	46.00	-16.38	QP
5	452.72	2.41	22.83	27.62	31.31	28.93	46.00	-17.07	QP
6	543.27	2.59	25.03	27.95	35.52	35.19	46.00	-10.81	OP



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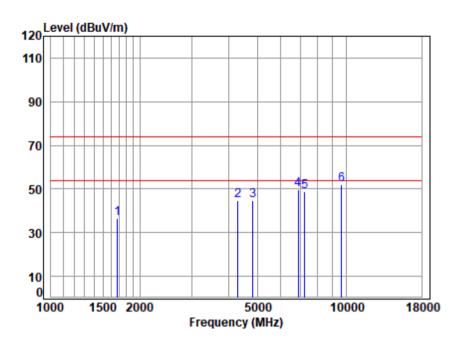
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Report No.: SZEM200900871802

Page: 96 of 328

Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 08718CR&08719CR

Mode : 2412 TX SE Note : 2.4G WIFI 11B

: 1TX

	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	
1682.477	3.42	26.60	40.62	46.90	36.30	74.00	-37.70	peak
4304.400	6.58	33.26	42.40	47.20	44.64	74.00	-29.36	peak
4824.000	7.12	34.00	42.78	46.19	44.53	74.00	-29.47	peak
6874.906	8.48	35.83	41.75	47.33	49.89	74.00	-24.11	peak
7236.000	8.77	36.09	41.56	45.55	48.85	74.00	-25.15	peak
9648.000	10.79	37.69	38.51	42.10	52.07	74.00	-21.93	peak
	MHz 1682.477 4304.400 4824.000 6874.906 7236.000	Freq Loss MHz dB 1682.477 3.42 4304.400 6.58 4824.000 7.12 6874.906 8.48 7236.000 8.77	Freq Loss Factor MHz dB dB/m 1682.477 3.42 26.60 4304.400 6.58 33.26 4824.000 7.12 34.00 6874.906 8.48 35.83 7236.000 8.77 36.09	Freq Loss Factor Factor MHz dB dB/m dB 1682.477 3.42 26.60 40.62 4304.400 6.58 33.26 42.40 4824.000 7.12 34.00 42.78 6874.906 8.48 35.83 41.75 7236.000 8.77 36.09 41.56	Freq Loss Factor Factor Level MHz dB dB/m dB dBuV 1682.477 3.42 26.60 40.62 46.90 4304.400 6.58 33.26 42.40 47.20 4824.000 7.12 34.00 42.78 46.19 6874.906 8.48 35.83 41.75 47.33 7236.000 8.77 36.09 41.56 45.55	MHz dB dB/m dB dBuV dBuV/m 1682.477 3.42 26.60 40.62 46.90 36.30 4304.400 6.58 33.26 42.40 47.20 44.64 4824.000 7.12 34.00 42.78 46.19 44.53 6874.906 8.48 35.83 41.75 47.33 49.89 7236.000 8.77 36.09 41.56 45.55 48.85	Freq Loss Factor Factor Level Level Line MHz dB dB/m dB dBuV dBuV/m dBuV/m 1682.477 3.42 26.60 40.62 46.90 36.30 74.00 4304.400 6.58 33.26 42.40 47.20 44.64 74.00 4824.000 7.12 34.00 42.78 46.19 44.53 74.00 6874.906 8.48 35.83 41.75 47.33 49.89 74.00 7236.000 8.77 36.09 41.56 45.55 48.85 74.00	Freq Cable Loss Factor Factor Read Level Level Limit Limit Over Level Limit MHz dB dB/m dB dBuV dBuV/m dBuV/m dBuV/m dB 1682.477 3.42 26.60 40.62 46.90 36.30 74.00 -37.70 4304.400 6.58 33.26 42.40 47.20 44.64 74.00 -29.36 4824.000 7.12 34.00 42.78 46.19 44.53 74.00 -29.47 6874.906 8.48 35.83 41.75 47.33 49.89 74.00 -24.11 7236.000 8.77 36.09 41.56 45.55 48.85 74.00 -25.15 9648.000 10.79 37.69 38.51 42.10 52.07 74.00 -21.93



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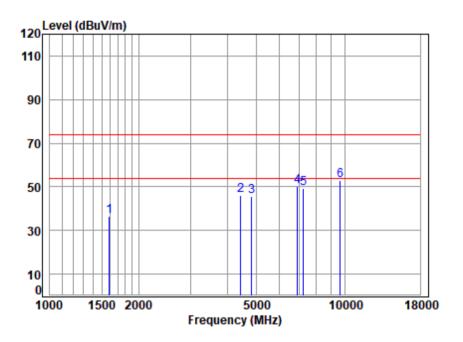
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Report No.: SZEM200900871802

Page: 97 of 328

Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 08718CR&08719CR

Mode : 2412 TX SE Note : 2.4G WIFI 11B

: 1TX

		-							
		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	3.34	26.22	40.57	47.31	36.30	74.00	-37.70	peak
2	4443.453	6.71	33.50	42.51	48.24	45.94	74.00	-28.06	peak
3	4824.000	7.12	34.00	42.78	47.33	45.67	74.00	-28.33	peak
4	6914.763	8.50	35.85	41.73	47.55	50.17	74.00	-23.83	peak
5	7236.000	8.77	36.09	41.56	46.18	49.48	74.00	-24.52	peak
6	9648.000	10.79	37.69	38.51	42.96	52.93	74.00	-21.07	peak



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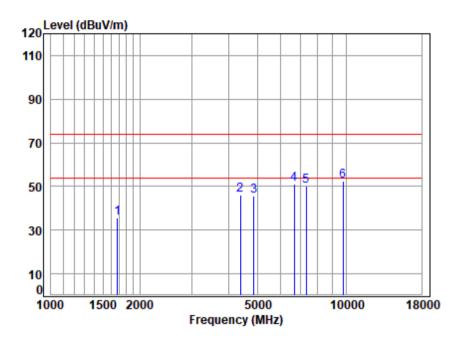
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Report No.: SZEM200900871802

Page: 98 of 328

Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL : 08718CR&08719CR

Mode : 2437 TX SE : 2.4G WIFI 11B Note

: 1TX

		•							
		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	1677.621	3.41	26.58	40.62	46.36	35.73	74.00	-38.27	peak
2	4379.699	6.65	33.39	42.46	48.29	45.87	74.00	-28.13	peak
3	4874.000	7.17	34.05	42.82	47.28	45.68	74.00	-28.32	peak
4	6659.763	8.37	35.70	41.86	48.92	51.13	74.00	-22.87	peak
5	7311.000	8.84	36.15	41.53	46.54	50.00	74.00	-24.00	peak
6	9748.000	10.76	37.75	38.37	42.25	52.39	74.00	-21.61	peak



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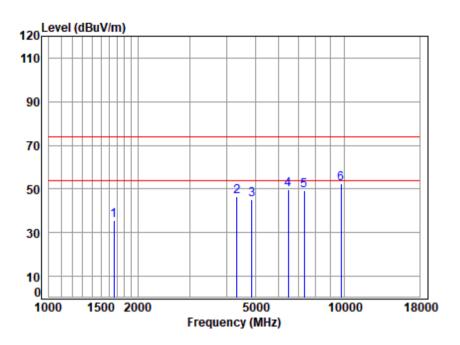
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Report No.: SZEM200900871802

Page: 99 of 328

Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber Condition: 3m VERTICAL

Job No : 08718CR&08719CR

Mode : 2437 TX SE Note : 2.4G WIFI 11B

: 1TX

		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	1663.137	3.40	26.52	40.61	46.13	35.44	74.00	-38.56	peak
2	4341.886	6.61	33.33	42.43	48.98	46.49	74.00	-27.51	peak
3	4874.000	7.17	34.05	42.82	46.68	45.08	74.00	-28.92	peak
4	6470.026	8.28	35.57	41.97	48.06	49.94	74.00	-24.06	peak
5	7311.000	8.84	36.15	41.53	45.78	49.24	74.00	-24.76	peak
6	9748.000	10.76	37.75	38.37	42.39	52.53	74.00	-21.47	peak



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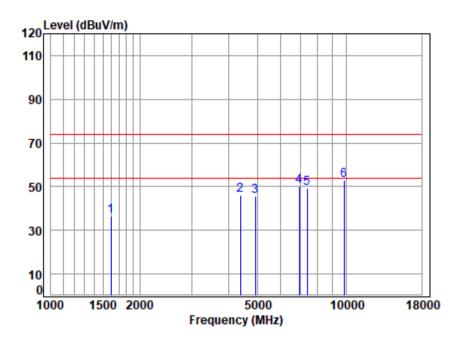
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Report No.: SZEM200900871802

Page: 100 of 328

Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 08718CR&08719CR

Mode : 2462 TX SE Note : 2.4G WIFI 11B

: 1TX

		•							
		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	1597.181	3.35	26.24	40.57	47.44	36.46	74.00	-37.54	peak
2	4392.376	6.66	33.42	42.47	48.43	46.04	74.00	-27.96	peak
3	4924.000	7.22	34.11	42.85	47.27	45.75	74.00	-28.25	peak
4	6934.778	8.51	35.86	41.72	47.59	50.24	74.00	-23.76	peak
5	7386.000	8.91	36.21	41.49	45.76	49.39	74.00	-24.61	peak
6	9848.000	10.73	37.81	38.22	42.72	53.04	74.00	-20.96	peak



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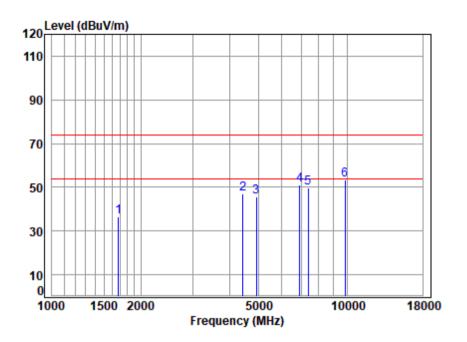
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Report No.: SZEM200900871802

Page: 101 of 328

Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 08718CR&08719CR

Mode : 2462 TX SE Note : 2.4G WIFI 11B

: 1TX

	. 11/	•							
		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	1677.621	3.41	26.58	40.62	47.24	36.61	74.00	-37.39	peak
2	4430.628	6.70	33.48	42.50	49.18	46.86	74.00	-27.14	peak
3	4924.000	7.22	34.11	42.85	47.11	45.59	74.00	-28.41	peak
4	6914.763	8.50	35.85	41.73	48.59	51.21	74.00	-22.79	peak
5	7386.000	8.91	36.21	41.49	46.03	49.66	74.00	-24.34	peak
6	9848.000	10.73	37.81	38.22	43.03	53.35	74.00	-20.65	peak



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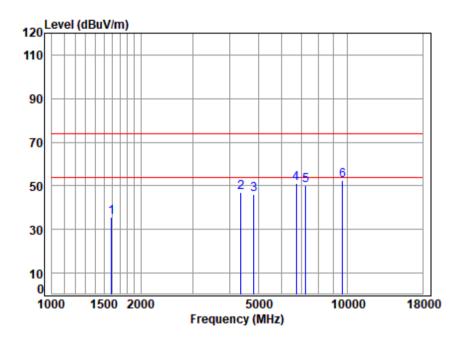
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Report No.: SZEM200900871802

Page: 102 of 328

Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 08718CR&08719CR

Mode : 2412 TX SE Note : 2.4G WIFI 11B

: 4TX

		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	3.34	26.22	40.57	46.80	35.79	74.00	-38.21	peak
2	4367.058	6.64	33.37	42.45	49.21	46.77	74.00	-27.23	peak
3	4824.000	7.12	34.00	42.78	47.91	46.25	74.00	-27.75	peak
4	6717.762	8.40	35.73	41.83	48.68	50.98	74.00	-23.02	peak
5	7236.000	8.77	36.09	41.56	46.85	50.15	74.00	-23.85	peak
6	9648.000	10.79	37.69	38.51	42.53	52.50	74.00	-21.50	peak



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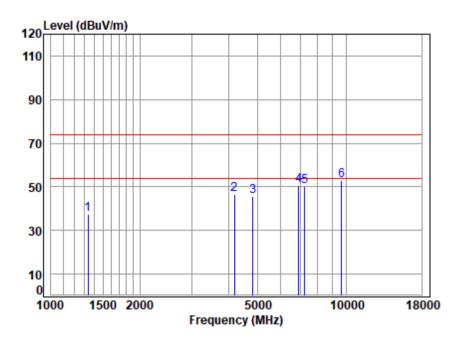
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Report No.: SZEM200900871802

Page: 103 of 328

Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 08718CR&08719CR

Mode : 2412 TX SE Note : 2.4G WIFI 11B

: 4TX

		-							
		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	1335.141	3.00	25.17	40.39	49.50	37.28	74.00	-36.72	peak
2	4181.768	6.46	33.04	42.31	49.34	46.53	74.00	-27.47	peak
3	4824.000	7.12	34.00	42.78	47.40	45.74	74.00	-28.26	peak
4	6914.763	8.50	35.85	41.73	47.84	50.46	74.00	-23.54	peak
5	7236.000	8.77	36.09	41.56	46.69	49.99	74.00	-24.01	peak
6	9648.000	10.79	37.69	38.51	43.10	53.07	74.00	-20.93	peak



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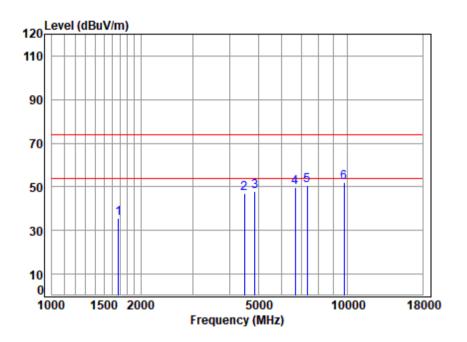
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Report No.: SZEM200900871802

Page: 104 of 328

Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL Job No : 08718CR&08719CR

Mode : 2437 TX SE Note : 2.4G WIFI 11B

: 4TX

		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	1677.621	3.41	26.58	40.62	46.36	35.73	74.00	-38.27	peak
2	4495.125	6.76	33.59	42.55	48.98	46.78	74.00	-27.22	peak
3	4874.000	7.17	34.05	42.82	49.29	47.69	74.00	-26.31	peak
4	6679.040	8.38	35.71	41.85	47.57	49.81	74.00	-24.19	peak
5	7311.000	8.84	36.15	41.53	47.00	50.46	74.00	-23.54	peak
6	9748.000	10.76	37.75	38.37	41.92	52.06	74.00	-21.94	peak



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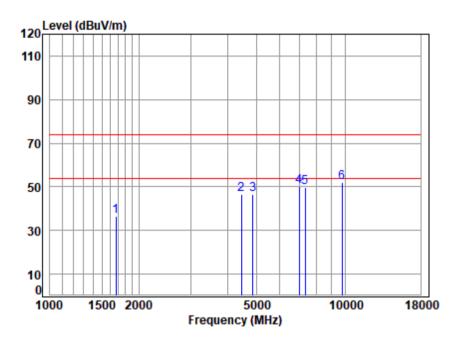
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Report No.: SZEM200900871802

Page: 105 of 328

Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber Condition: 3m VERTICAL

Job No : 08718CR&08719CR

Mode : 2437 TX SE Note : 2.4G WIFI 11B

: 4TX

		-							
		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	1672.779	3.41	26.56	40.62	47.02	36.37	74.00	-37.63	peak
2	4456.315	6.72	33.53	42.52	48.61	46.34	74.00	-27.66	peak
3	4874.000	7.17	34.05	42.82	47.96	46.36	74.00	-27.64	peak
4	6974.982	8.53	35.89	41.70	47.54	50.26	74.00	-23.74	peak
5	7311.000	8.84	36.15	41.53	46.08	49.54	74.00	-24.46	peak
6	9748.000	10.76	37.75	38.37	42.02	52.16	74.00	-21.84	peak



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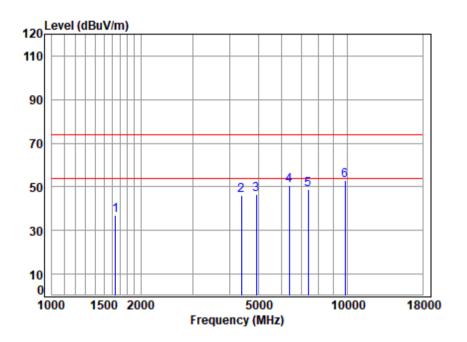
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Report No.: SZEM200900871802

Page: 106 of 328

Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 08718CR&08719CR

Mode : 2462 TX SE Note : 2.4G WIFI 11B

: 4TX

		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	3.38	26.42	40.59	47.53	36.74	74.00	-37.26	peak
2	4379.699	6.65	33.39	42.46	48.61	46.19	74.00	-27.81	peak
3	4924.000	7.22	34.11	42.85	47.99	46.47	74.00	-27.53	peak
4	6377.195	8.28	35.48	42.02	48.79	50.53	74.00	-23.47	peak
5	7386.000	8.91	36.21	41.49	45.00	48.63	74.00	-25.37	peak
6	9848.000	10.73	37.81	38.22	42.55	52.87	74.00	-21.13	peak



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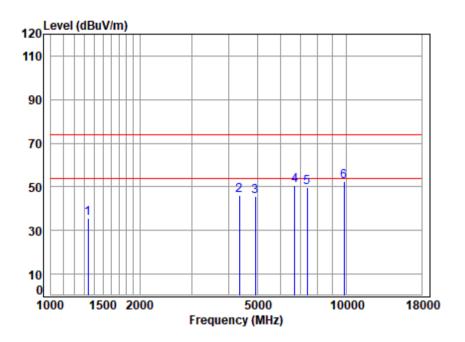
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Report No.: SZEM200900871802

Page: 107 of 328

Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 08718CR&08719CR

Mode : 2462 TX SE Note : 2.4G WIFI 11B

: 4TX

		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	1335.141	3.00	25.17	40.39	47.94	35.72	74.00	-38.28	peak	
2	4354.454	6.63	33.35	42.44	48.36	45.90	74.00	-28.10	peak	
3	4924.000	7.22	34.11	42.85	47.00	45.48	74.00	-28.52	peak	
4	6698.373	8.39	35.72	41.84	48.24	50.51	74.00	-23.49	peak	
5	7386.000	8.91	36.21	41.49	46.13	49.76	74.00	-24.24	peak	
6	9848.000	10.73	37.81	38.22	42.02	52.34	74.00	-21.66	peak	



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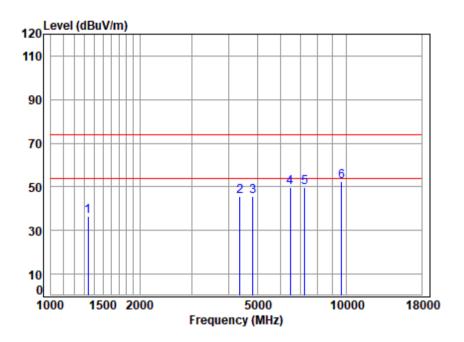
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Report No.: SZEM200900871802

Page: 108 of 328

Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 08718CR&08719CR

Mode : 2412 TX SE Note : 2.4G WIFI 11G

: 1TX

		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	1335.141	3.00	25.17	40.39	48.88	36.66	74.00	-37.34	peak
2	4367.058	6.64	33.37	42.45	47.86	45.42	74.00	-28.58	peak
3	4824.000	7.12	34.00	42.78	47.19	45.53	74.00	-28.47	peak
4	6470.026	8.28	35.57	41.97	47.94	49.82	74.00	-24.18	peak
5	7236.000	8.77	36.09	41.56	46.54	49.84	74.00	-24.16	peak
6	9648.000	10.79	37.69	38.51	42.31	52.28	74.00	-21.72	peak



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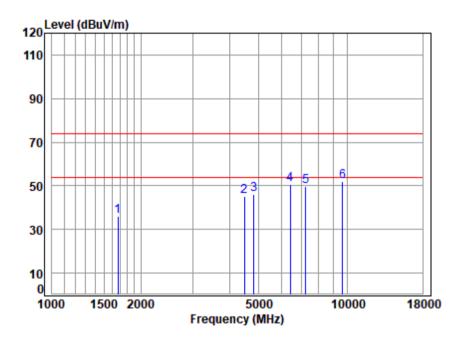
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Report No.: SZEM200900871802

Page: 109 of 328

Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 08718CR&08719CR

Mode : 2412 TX SE Note : 2.4G WIFI 11G

: 1TX

		-							
		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	1672.779	3.41	26.56	40.62	46.55	35.90	74.00	-38.10	peak
2	4482.150	6.74	33.57	42.54	47.60	45.37	74.00	-28.63	peak
3	4824.000	7.12	34.00	42.78	47.66	46.00	74.00	-28.00	peak
4	6414.167	8.28	35.52	42.00	49.05	50.85	74.00	-23.15	peak
5	7236.000	8.77	36.09	41.56	46.41	49.71	74.00	-24.29	peak
6	9648.000	10.79	37.69	38.51	42.23	52.20	74.00	-21.80	peak



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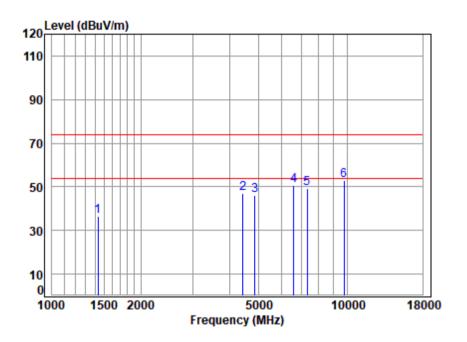
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Page: 110 of 328

Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL Job No : 08718CR&08719CR

Mode : 2437 TX SE Note : 2.4G WIFI 11G

: 1TX

		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	1431.047	3.16	25.54	40.46	48.25	36.49	74.00	-37.51	peak
2	4443.453	6.71	33.50	42.51	49.25	46.95	74.00	-27.05	peak
3	4874.000	7.17	34.05	42.82	47.47	45.87	74.00	-28.13	peak
4	6583.209	8.32	35.65	41.91	48.77	50.83	74.00	-23.17	peak
5	7311.000	8.84	36.15	41.53	45.59	49.05	74.00	-24.95	peak
6	9748.000	10.76	37.75	38.37	42.83	52.97	74.00	-21.03	peak



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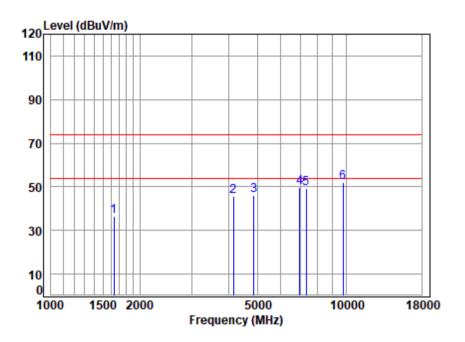
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Report No.: SZEM200900871802

Page: 111 of 328

Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Site : chamber Condition: 3m VERTICAL

Job No : 08718CR&08719CR

Mode : 2437 TX SE Note : 2.4G WIFI 11G

: 1TX

		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	1634.543	3.38	26.40	40.59	47.28	36.47	74.00	-37.53	peak
2	4145.664	6.43	32.97	42.28	48.29	45.41	74.00	-28.59	peak
3	4874.000	7.17	34.05	42.82	47.65	46.05	74.00	-27.95	peak
4	6954.852	8.52	35.87	41.71	47.26	49.94	74.00	-24.06	peak
5	7311.000	8.84	36.15	41.53	45.91	49.37	74.00	-24.63	peak
6	9748.000	10.76	37.75	38.37	41.77	51.91	74.00	-22.09	peak



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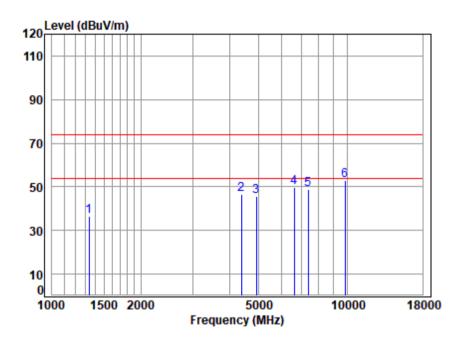
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Page: 112 of 328

Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 08718CR&08719CR

Mode : 2462 TX SE Note : 2.4G WIFI 11G

: 1TX

		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	1335.141	3.00	25.17	40.39	48.58	36.36	74.00	-37.64	peak
2	4392.376	6.66	33.42	42.47	48.95	46.56	74.00	-27.44	peak
3	4924.000	7.22	34.11	42.85	47.12	45.60	74.00	-28.40	peak
4	6621.375	8.34	35.67	41.88	47.56	49.69	74.00	-24.31	peak
5	7386.000	8.91	36.21	41.49	45.15	48.78	74.00	-25.22	peak
6	9848.000	10.73	37.81	38.22	42.54	52.86	74.00	-21.14	peak



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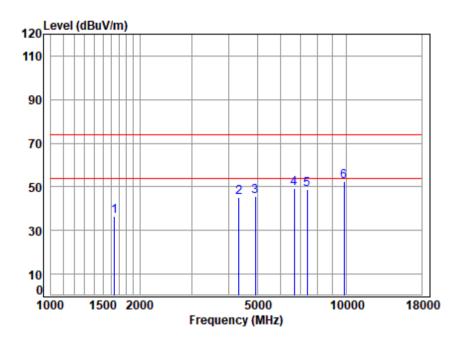
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Report No.: SZEM200900871802

Page: 113 of 328

Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 08718CR&08719CR

Mode : 2462 TX SE Note : 2.4G WIFI 11G

: 1TX

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1644.019	3.38	26.44	40.60	47.18	36.40	74.00	-37.60	peak
2	4329.354	6.60	33.30	42.42	47.81	45.29	74.00	-28.71	peak
3	4924.000	7.22	34.11	42.85	47.21	45.69	74.00	-28.31	peak
4	6679.040	8.38	35.71	41.85	47.16	49.40	74.00	-24.60	peak
5	7386.000	8.91	36.21	41.49	45.01	48.64	74.00	-25.36	peak
6	9848.000	10.73	37.81	38.22	42.23	52.55	74.00	-21.45	peak



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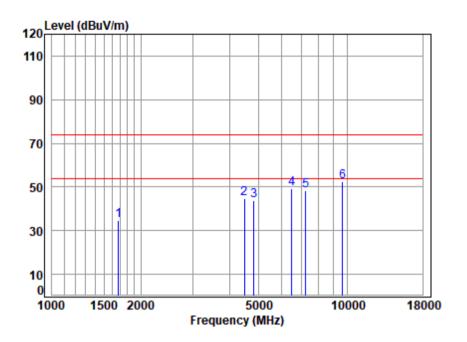
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Report No.: SZEM200900871802

Page: 114 of 328

Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 08718CR&08719CR

Mode : 2412 TX SE Note : 2.4G WIFI 11G

: 4TX

		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	1677.621	3.41	26.58	40.62	45.35	34.72	74.00	-39.28	peak
2	4482.150	6.74	33.57	42.54	47.08	44.85	74.00	-29.15	peak
3	4824.000	7.12	34.00	42.78	45.45	43.79	74.00	-30.21	peak
4	6488.754	8.28	35.59	41.96	47.47	49.38	74.00	-24.62	peak
5	7236.000	8.77	36.09	41.56	44.91	48.21	74.00	-25.79	peak
6	9648.000	10.79	37.69	38.51	42.61	52.58	74.00	-21.42	peak



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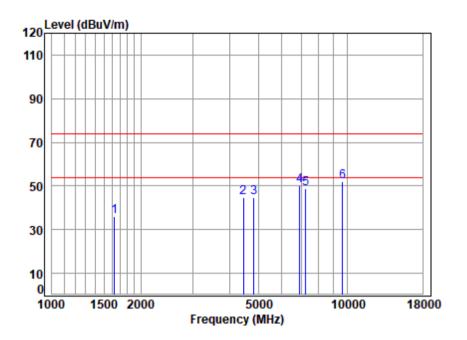
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Report No.: SZEM200900871802

Page: 115 of 328

Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 08718CR&08719CR

Mode : 2412 TX SE Note : 2.4G WIFI 11G

: 4TX

		•							
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1629.825	3.37	26.38	40.59	46.76	35.92	74.00	-38.08	peak
2	4456.315	6.72	33.53	42.52	47.02	44.75	74.00	-29.25	peak
3	4824.000	7.12	34.00	42.78	46.20	44.54	74.00	-29.46	peak
4	6914.763	8.50	35.85	41.73	47.63	50.25	74.00	-23.75	peak
5	7236.000	8.77	36.09	41.56	45.38	48.68	74.00	-25.32	peak
6	9648.000	10.79	37.69	38.51	42.15	52.12	74.00	-21.88	peak



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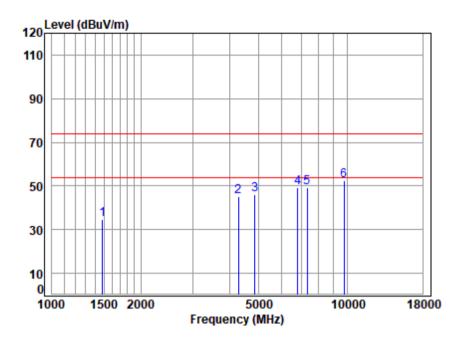
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Report No.: SZEM200900871802

Page: 116 of 328

Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL Job No : 08718CR&08719CR

Mode : 2437 TX SE Note : 2.4G WIFI 11G

: 4TX

		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	1481.553	3.23	25.73	40.49	46.29	34.76	74.00	-39.24	peak
2	4291.977	6.57	33.24	42.39	47.90	45.32	74.00	-28.68	peak
3	4874.000	7.17	34.05	42.82	47.55	45.95	74.00	-28.05	peak
4	6795.879	8.44	35.78	41.79	46.97	49.40	74.00	-24.60	peak
5	7311.000	8.84	36.15	41.53	45.79	49.25	74.00	-24.75	peak
6	9748.000	10.76	37.75	38.37	42.39	52.53	74.00	-21.47	peak



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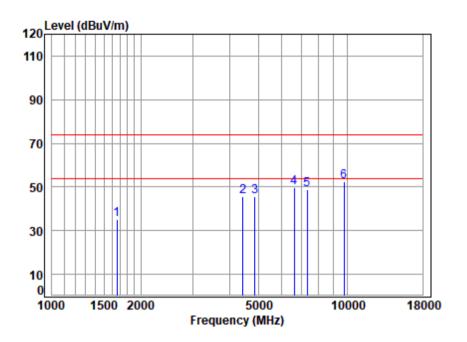
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Report No.: SZEM200900871802

Page: 117 of 328

Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Site : chamber Condition: 3m VERTICAL

Job No : 08718CR&08719CR

Mode : 2437 TX SE Note : 2.4G WIFI 11G

: 4TX

		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	1663.137	3.40	26.52	40.61	45.63	34.94	74.00	-39.06	peak
2	4443.453	6.71	33.50	42.51	48.09	45.79	74.00	-28.21	peak
3	4874.000	7.17	34.05	42.82	47.07	45.47	74.00	-28.53	peak
4	6621.375	8.34	35.67	41.88	47.52	49.65	74.00	-24.35	peak
5	7311.000	8.84	36.15	41.53	45.35	48.81	74.00	-25.19	peak
6	9748.000	10.76	37.75	38.37	42.28	52.42	74.00	-21.58	peak



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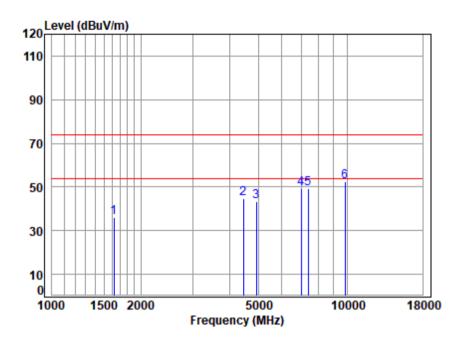
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Report No.: SZEM200900871802

Page: 118 of 328

Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 08718CR&08719CR

Mode : 2462 TX SE Note : 2.4G WIFI 11G

: 4TX

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1620.431	3.36	26.34	40.58	46.94	36.06	74.00	-37.94	peak
2	4456.315	6.72	33.53	42.52	47.00	44.73	74.00	-29.27	peak
3	4924.000	7.22	34.11	42.85	45.09	43.57	74.00	-30.43	peak
4	6974.982	8.53	35.89	41.70	46.72	49.44	74.00	-24.56	peak
5	7386.000	8.91	36.21	41.49	45.47	49.10	74.00	-24.90	peak
6	9848.000	10.73	37.81	38.22	42.03	52.35	74.00	-21.65	peak
2 3 4 5	1620.431 4456.315 4924.000 6974.982 7386.000	3.36 6.72 7.22 8.53 8.91	26.34 33.53 34.11 35.89 36.21	40.58 42.52 42.85 41.70 41.49	46.94 47.00 45.09 46.72 45.47	36.06 44.73 43.57 49.44 49.10	74.00 74.00 74.00 74.00 74.00	-37.94 -29.27 -30.43 -24.56 -24.90	peak peak peak peak peak



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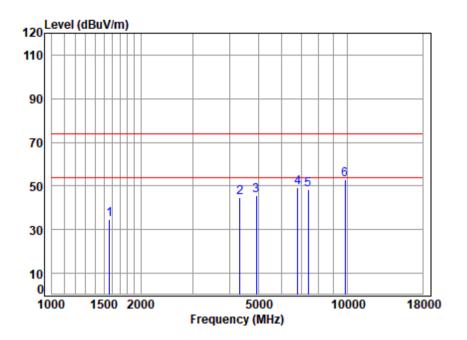
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Report No.: SZEM200900871802

Page: 119 of 328

Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 08718CR&08719CR

Mode : 2462 TX SE Note : 2.4G WIFI 11G

: 4TX

	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	
1565.191	3.32	26.10	40.55	45.92	34.79	74.00	-39.21	peak
4329.354	6.60	33.30	42.42	47.34	44.82	74.00	-29.18	peak
4924.000	7.22	34.11	42.85	47.01	45.49	74.00	-28.51	peak
6795.879	8.44	35.78	41.79	47.02	49.45	74.00	-24.55	peak
7386.000	8.91	36.21	41.49	44.59	48.22	74.00	-25.78	peak
9848.000	10.73	37.81	38.22	42.59	52.91	74.00	-21.09	peak
	MHz 1565.191 4329.354 4924.000 6795.879 7386.000	Freq Loss MHz dB 1565.191 3.32 4329.354 6.60 4924.000 7.22 6795.879 8.44 7386.000 8.91	Freq Loss Factor MHz dB dB/m 1565.191 3.32 26.10 4329.354 6.60 33.30 4924.000 7.22 34.11 6795.879 8.44 35.78 7386.000 8.91 36.21	Freq Loss Factor Factor MHz dB dB/m dB 1565.191 3.32 26.10 40.55 4329.354 6.60 33.30 42.42 4924.000 7.22 34.11 42.85 6795.879 8.44 35.78 41.79 7386.000 8.91 36.21 41.49	Freq Loss Factor Factor Level MHz dB dB/m dB dBuV 1565.191 3.32 26.10 40.55 45.92 4329.354 6.60 33.30 42.42 47.34 4924.000 7.22 34.11 42.85 47.01 6795.879 8.44 35.78 41.79 47.02 7386.000 8.91 36.21 41.49 44.59	Freq Loss Factor Factor Level Level MHz dB dB/m dB dBuV dBuV/m 1565.191 3.32 26.10 40.55 45.92 34.79 4329.354 6.60 33.30 42.42 47.34 44.82 4924.000 7.22 34.11 42.85 47.01 45.49 6795.879 8.44 35.78 41.79 47.02 49.45 7386.000 8.91 36.21 41.49 44.59 48.22	Freq Loss Factor Factor Level Level Line MHz dB dB/m dB dBuV dBuV/m dBuV/m 1565.191 3.32 26.10 40.55 45.92 34.79 74.00 4329.354 6.60 33.30 42.42 47.34 44.82 74.00 4924.000 7.22 34.11 42.85 47.01 45.49 74.00 6795.879 8.44 35.78 41.79 47.02 49.45 74.00 7386.000 8.91 36.21 41.49 44.59 48.22 74.00	Freq Cable Loss Factor Factor Level Level Level Limit Limit Over Level Level Limit MHz dB dB/m dB dBuV dBuV/m dud



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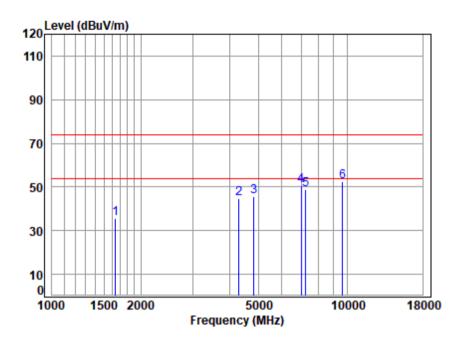
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Report No.: SZEM200900871802

Page: 120 of 328

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 08718CR&08719CR

Mode : 2412 TX SE

Note : 2.4G WIFI 11N20

: 4TX

	Freq			Preamp Factor		Level			Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1644.019	3.38	26.44	40.60	46.23	35.45	74.00	-38.55	peak
2	4304.400	6.58	33.26	42.40	47.45	44.89	74.00	-29.11	peak
3	4824.000	7.12	34.00	42.78	47.43	45.77	74.00	-28.23	peak
4	6995.172	8.54	35.90	41.69	47.96	50.71	74.00	-23.29	peak
5	7236.000	8.77	36.09	41.56	45.58	48.88	74.00	-25.12	peak
6	9648.000	10.79	37.69	38.51	42.61	52.58	74.00	-21.42	peak



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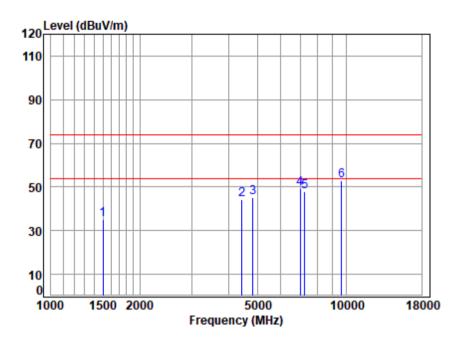
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Report No.: SZEM200900871802

Page: 121 of 328

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 08718CR&08719CR

Mode : 2412 TX SE

Note : 2.4G WIFI 11N20

: 4TX

		-							
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1503.119	3.26	25.81	40.51	46.64	35.20	74.00	-38.80	peak
2	4430.628	6.70	33.48	42.50	46.65	44.33	74.00	-29.67	peak
3	4824.000	7.12	34.00	42.78	46.69	45.03	74.00	-28.97	peak
4	6995.172	8.54	35.90	41.69	46.50	49.25	74.00	-24.75	peak
5	7236.000	8.77	36.09	41.56	44.77	48.07	74.00	-25.93	peak
6	9648.000	10.79	37.69	38.51	43.16	53.13	74.00	-20.87	peak



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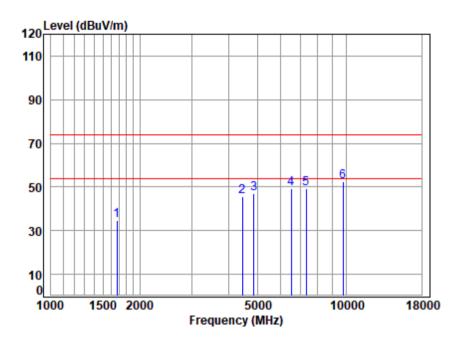
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Report No.: SZEM200900871802

Page: 122 of 328

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL Job No : 08718CR&08719CR

Mode : 2437 TX SE

Note : 2.4G WIFI 11N20

: 4TX

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1672.779	3.41	26.56	40.62	45.40	34.75	74.00	-39.25	peak
2	4456.315	6.72	33.53	42.52	48.11	45.84	74.00	-28.16	peak
3	4874.000	7.17	34.05	42.82	48.50	46.90	74.00	-27.10	peak
4	6507.536	8.28	35.60	41.95	47.31	49.24	74.00	-24.76	peak
5	7311.000	8.84	36.15	41.53	45.98	49.44	74.00	-24.56	peak
6	9748.000	10.76	37.75	38.37	42.29	52.43	74.00	-21.57	peak



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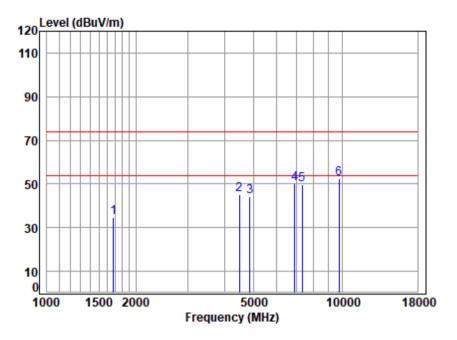
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Report No.: SZEM200900871802

Page: 123 of 328

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL

Job No : 08718CR&08719CR

Mode : 2437 TX SE

Note : 2.4G WIFI 11N20

: 4TX

		-							
		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	1677.621	3.41	26.58	40.62	45.43	34.80	74.00	-39.20	peak
2	4482.150	6.74	33.57	42.54	47.26	45.03	74.00	-28.97	peak
3	4874.000	7.17	34.05	42.82	45.97	44.37	74.00	-29.63	peak
4	6914.763	8.50	35.85	41.73	47.44	50.06	74.00	-23.94	peak
5	7311.000	8.84	36.15	41.53	46.41	49.87	74.00	-24.13	peak
6	9748.000	10.76	37.75	38.37	42.32	52.46	74.00	-21.54	peak



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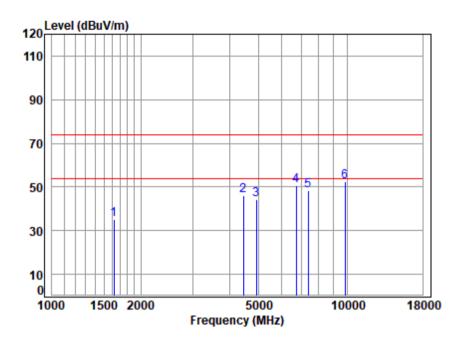
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Report No.: SZEM200900871802

Page: 124 of 328

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 08718CR&08719CR

Mode : 2462TX SE

Note : 2.4G WIFI 11N20

: 4TX

		•							
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1620.431	3.36	26.34	40.58	46.24	35.36	74.00	-38.64	peak
2	4456.315	6.72	33.53	42.52	48.32	46.05	74.00	-27.95	peak
3	4924.000	7.22	34.11	42.85	45.57	44.05	74.00	-29.95	peak
4	6717.762	8.40	35.73	41.83	48.27	50.57	74.00	-23.43	peak
5	7386.000	8.91	36.21	41.49	44.85	48.48	74.00	-25.52	peak
6	9848.000	10.73	37.81	38.22	41.96	52.28	74.00	-21.72	peak



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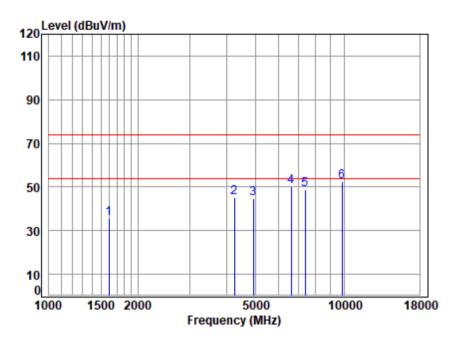
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Report No.: SZEM200900871802

Page: 125 of 328

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 08718CR&08719CR

Mode : 2462 TX SE

Note : 2.4G WIFI 11N20

: 4TX

		-							
		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	1597.181	3.35	26.24	40.57	46.60	35.62	74.00	-38.38	peak
2	4254.921	6.53	33.17	42.36	47.68	45.02	74.00	-28.98	peak
3	4924.000	7.22	34.11	42.85	46.27	44.75	74.00	-29.25	peak
4	6621.375	8.34	35.67	41.88	47.92	50.05	74.00	-23.95	peak
5	7386.000	8.91	36.21	41.49	45.09	48.72	74.00	-25.28	peak
6	9848.000	10.73	37.81	38.22	42.03	52.35	74.00	-21.65	peak



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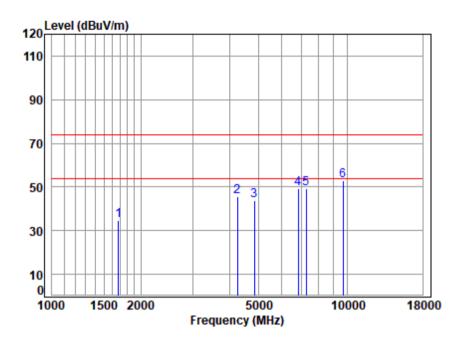
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Report No.: SZEM200900871802

Page: 126 of 328

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 08718CR&08719CR

Mode : 2422TX SE

Note : 2.4G WIFI 11N40

: 4TX

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1682.477	3.42	26.60	40.62	45.45	34.85	74.00	-39.15	peak
2	4254.921	6.53	33.17	42.36	48.31	45.65	74.00	-28.35	peak
3	4844.000	7.14	34.02	42.79	45.54	43.91	74.00	-30.09	peak
4	6815.551	8.45	35.79	41.78	46.83	49.29	74.00	-24.71	peak
5	7266.000	8.79	36.12	41.55	45.82	49.18	74.00	-24.82	peak
6	9688.000	10.78	37.71	38.45	42.98	53.02	74.00	-20.98	peak



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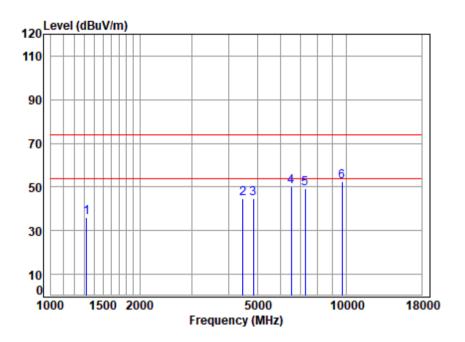
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Report No.: SZEM200900871802

Page: 127 of 328

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 08718CR&08719CR

Mode : 2422 TX SE

Note : 2.4G WIFI 11N40

: 4TX

		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	1319.794	2.98	25.11	40.38	48.22	35.93	74.00	-38.07	peak
2	4469.214	6.73	33.55	42.53	47.12	44.87	74.00	-29.13	peak
3	4844.000	7.14	34.02	42.79	46.22	44.59	74.00	-29.41	peak
4	6507.536	8.28	35.60	41.95	48.12	50.05	74.00	-23.95	peak
5	7266.000	8.79	36.12	41.55	46.03	49.39	74.00	-24.61	peak
6	9688.000	10.78	37.71	38.45	42.22	52.26	74.00	-21.74	peak



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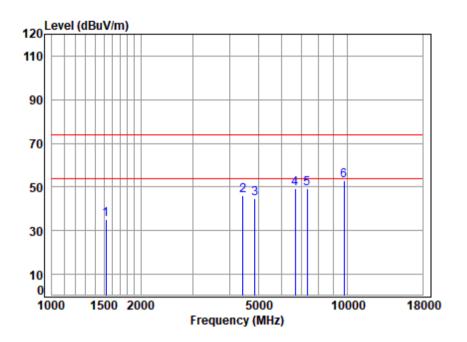
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Report No.: SZEM200900871802

Page: 128 of 328

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL Job No : 08718CR&08719CR

Mode : 2437 TX SE

Note : 2.4G WIFI 11N40

: 4TX

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1525.000	3.28	25.91	40.52	46.26	34.93	74.00	-39.07	peak
2	4430.628	6.70	33.48	42.50	48.61	46.29	74.00	-27.71	peak
3	4874.000	7.17	34.05	42.82	46.34	44.74	74.00	-29.26	peak
4	6679.040	8.38	35.71	41.85	47.23	49.47	74.00	-24.53	peak
5	7311.000	8.84	36.15	41.53	45.87	49.33	74.00	-24.67	peak
6	9748.000	10.76	37.75	38.37	42.85	52.99	74.00	-21.01	peak



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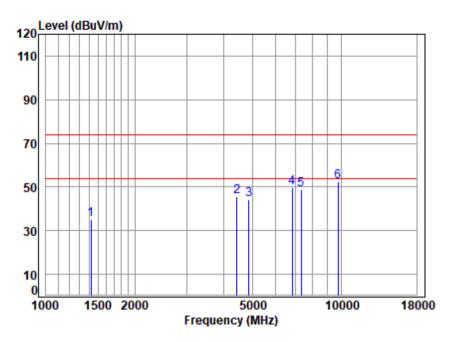
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Report No.: SZEM200900871802

Page: 129 of 328

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Site : chamber Condition: 3m VERTICAL

Job No : 08718CR&08719CR

Mode : 2437 TX SE

Note : 2.4G WIFI 11N40

: 4TX

	Freq		Ant Factor	Preamp Factor		Level			Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1422.798	3.14	25.51	40.45	46.81	35.01	74.00	-38.99	peak
2	4443.453	6.71	33.50	42.51	47.89	45.59	74.00	-28.41	peak
3	4874.000	7.17	34.05	42.82	46.04	44.44	74.00	-29.56	peak
4	6815.551	8.45	35.79	41.78	47.40	49.86	74.00	-24.14	peak
5	7311.000	8.84	36.15	41.53	45.52	48.98	74.00	-25.02	peak
6	9748.000	10.76	37.75	38.37	42.18	52.32	74.00	-21.68	peak



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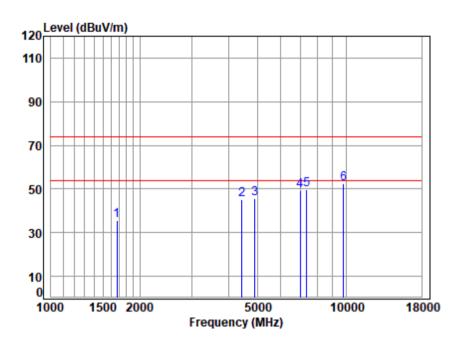
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Report No.: SZEM200900871802

Page: 130 of 328

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 08718CR&08719CR

Mode : 2452 TX SE

Note : 2.4G WIFI 11N40

: 4TX

		•							
		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	1672.779	3.41	26.56	40.62	46.38	35.73	74.00	-38.27	peak
2	4443.453	6.71	33.50	42.51	47.65	45.35	74.00	-28.65	peak
3	4904.000	7.20	34.09	42.84	47.27	45.72	74.00	-28.28	peak
4	6995.172	8.54	35.90	41.69	46.74	49.49	74.00	-24.51	peak
5	7356.000	8.88	36.19	41.50	45.95	49.52	74.00	-24.48	peak
6	9808.000	10.75	37.79	38.28	42.07	52.33	74.00	-21.67	peak



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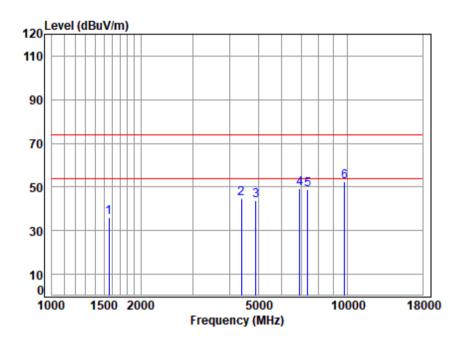
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Report No.: SZEM200900871802

Page: 131 of 328

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 08718CR&08719CR

Mode : 2452 TX SE

Note : 2.4G WIFI 11N40

: 4TX

		•							
		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	1560.673	3.31	26.08	40.55	47.23	36.07	74.00	-37.93	peak
2	4379.699	6.65	33.39	42.46	47.10	44.68	74.00	-29.32	peak
3	4904.000	7.20	34.09	42.84	45.42	43.87	74.00	-30.13	peak
4	6914.763	8.50	35.85	41.73	46.74	49.36	74.00	-24.64	peak
5	7356.000	8.88	36.19	41.50	45.18	48.75	74.00	-25.25	peak
6	9808.000	10.75	37.79	38.28	42.04	52.30	74.00	-21.70	peak



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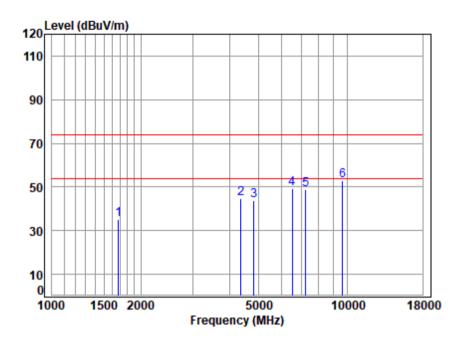
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Report No.: SZEM200900871802

Page: 132 of 328

Test Mode: 00; Polarity: Horizontal; Bandwidth: 20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 08718CR&08719CR

Mode : 2412 TX SE

Note : 2.4G WIFI 11AX20

: 4TX

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1677.621	3.41	26.58	40.62	45.88	35.25	74.00	-38.75	peak
2	4367.058	6.64	33.37	42.45	47.29	44.85	74.00	-29.15	peak
3	4824.000	7.12	34.00	42.78	45.53	43.87	74.00	-30.13	peak
4	6526.373	8.29	35.62	41.94	47.51	49.48	74.00	-24.52	peak
5	7236.000	8.77	36.09	41.56	45.30	48.60	74.00	-25.40	peak
6	9648.000	10.79	37.69	38.51	42.84	52.81	74.00	-21.19	peak



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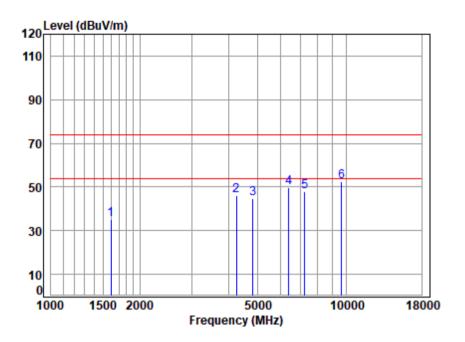
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Report No.: SZEM200900871802

Page: 133 of 328

Test Mode: 00; Polarity: Vertical; Bandwidth: 20MHz; Channel: Low



Site : chamber Condition: 3m VERTICAL

Job No : 08718CR&08719CR

Mode : 2412 TX SE

Note : 2.4G WIFI 11AX20

: 4TX

		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	1597.181	3.35	26.24	40.57	46.22	35.24	74.00	-38.76	peak
2	4242.641	6.52	33.15	42.35	48.96	46.28	74.00	-27.72	peak
3	4824.000	7.12	34.00	42.78	46.26	44.60	74.00	-29.40	peak
4	6395.654	8.28	35.50	42.01	47.75	49.52	74.00	-24.48	peak
5	7236.000	8.77	36.09	41.56	44.77	48.07	74.00	-25.93	peak
6	9648.000	10.79	37.69	38.51	42.55	52.52	74.00	-21.48	peak



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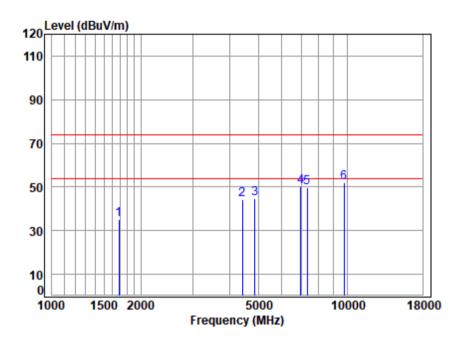
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Report No.: SZEM200900871802

Page: 134 of 328

Test Mode: 00; Polarity: Horizontal; Bandwidth: 20MHz; Channel: middle



Site : chamber

Condition: 3m HORIZONTAL Job No : 08718CR&08719CR

Mode : 2437 TX SE

Note : 2.4G WIFI 11AX20

: 4TX

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1687.347	3.42	26.62	40.62	45.82	35.24	74.00	-38.76	peak
2	4417.841	6.68	33.46	42.49	46.76	44.41	74.00	-29.59	peak
3	4874.000	7.17	34.05	42.82	46.23	44.63	74.00	-29.37	peak
4	6954.852	8.52	35.87	41.71	47.42	50.10	74.00	-23.90	peak
5	7311.000	8.84	36.15	41.53	46.26	49.72	74.00	-24.28	peak
6	9748.000	10.76	37.75	38.37	41.97	52.11	74.00	-21.89	peak



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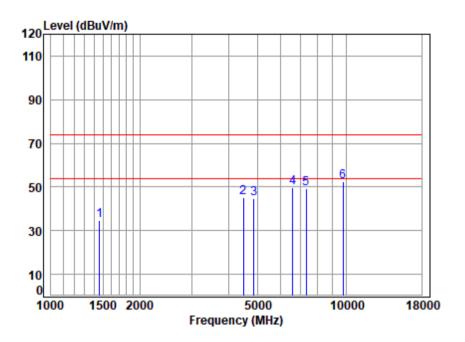
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Report No.: SZEM200900871802

Page: 135 of 328

Test Mode: 00; Polarity: Vertical; Bandwidth: 20MHz; Channel: middle



Site : chamber Condition: 3m VERTICAL

Job No : 08718CR&08719CR

Mode : 2437 TX SE

Note : 2.4G WIFI 11AX20

: 4TX

	Freq		Ant Factor	Preamp Factor			Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1460.295	3.20	25.65	40.48	46.27	34.64	74.00	-39.36	peak
2	4495.125	6.76	33.59	42.55	47.32	45.12	74.00	-28.88	peak
3	4874.000	7.17	34.05	42.82	46.16	44.56	74.00	-29.44	peak
4	6602.265	8.33	35.66	41.89	47.44	49.54	74.00	-24.46	peak
5	7311.000	8.84	36.15	41.53	46.03	49.49	74.00	-24.51	peak
6	9748.000	10.76	37.75	38.37	42.23	52.37	74.00	-21.63	peak



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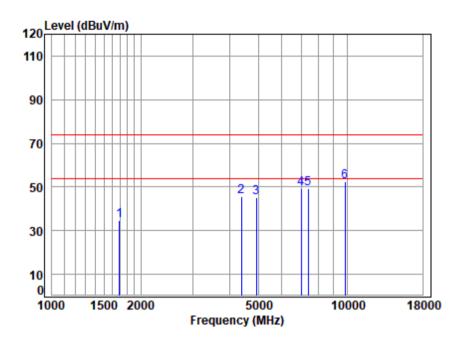
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Report No.: SZEM200900871802

Page: 136 of 328

Test Mode: 00; Polarity: Horizontal; Bandwidth: 20MHz; Channel: High



Site : chamber

Condition: 3m HORIZONTAL Job No : 08718CR&08719CR

Mode : 2462 TX SE

Note : 2.4G WIFI 11AX20

: 4TX

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1692.231	3.42	26.64	40.63	45.16	34.59	74.00	-39.41	peak
2	4392.376	6.66	33.42	42.47	48.17	45.78	74.00	-28.22	peak
3	4924.000	7.22	34.11	42.85	46.76	45.24	74.00	-28.76	peak
4	6995.172	8.54	35.90	41.69	46.31	49.06	74.00	-24.94	peak
5	7386.000	8.91	36.21	41.49	45.58	49.21	74.00	-24.79	peak
6	9848.000	10.73	37.81	38.22	42.12	52.44	74.00	-21.56	peak



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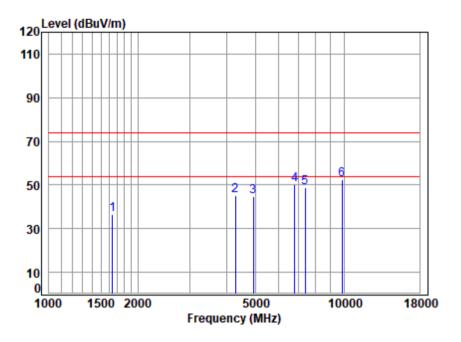
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Report No.: SZEM200900871802

Page: 137 of 328

Test Mode: 00; Polarity: Vertical; Bandwidth: 20MHz; Channel: High



Site : chamber Condition: 3m VERTICAL

Job No : 08718CR&08719CR

Mode : 2462 TX SE

Note : 2.4G WIFI 11AX20

: 4TX

		-							
	Гпол			Preamp					Domanie
	Freq	LOSS	ractor	Factor	rever	revei	Line	LIMIC	Kemark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1639.274	3.38	26. 42	40.59	47.15	36.36	74 00	-37 64	neak
2	4291.977								•
3	4924.000	7.22	34.11	42.85	46.36	44.84	74.00	-29.16	peak
4	6795.879	8.44	35.78	41.79	47.70	50.13	74.00	-23.87	peak
5	7386.000	8.91	36.21	41.49	45.20	48.83	74.00	-25.17	peak
6	9848.000	10.73	37.81	38.22	41.98	52.30	74.00	-21.70	peak



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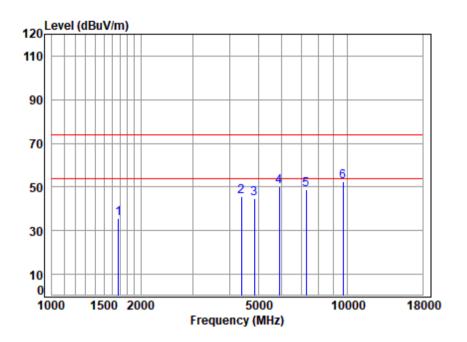
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Report No.: SZEM200900871802

Page: 138 of 328

Test Mode: 00; Polarity: Horizontal; Bandwidth: 40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 08718CR&08719CR

Mode : 2422 TX SE

Note : 2.4G WIFI 11AX40

: 4TX

	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	
1682.477	3.42	26.60	40.62	46.14	35.54	74.00	-38.46	peak
4392.376	6.66	33.42	42.47	48.00	45.61	74.00	-28.39	peak
4844.000	7.14	34.02	42.79	46.24	44.61	74.00	-29.39	peak
5881.418	8.24	34.99	42.31	49.05	49.97	74.00	-24.03	peak
7266.000	8.79	36.12	41.55	45.55	48.91	74.00	-25.09	peak
9688.000	10.78	37.71	38.45	42.22	52.26	74.00	-21.74	peak
	MHz 1682.477 4392.376 4844.000 5881.418 7266.000	MHz dB 1682.477 3.42 4392.376 6.66 4844.000 7.14 5881.418 8.24 7266.000 8.79	Freq Loss Factor MHz dB dB/m 1682.477 3.42 26.60 4392.376 6.66 33.42 4844.000 7.14 34.02 5881.418 8.24 34.99 7266.000 8.79 36.12	Freq Loss Factor Factor MHz dB dB/m dB 1682.477 3.42 26.60 40.62 4392.376 6.66 33.42 42.47 4844.000 7.14 34.02 42.79 5881.418 8.24 34.99 42.31 7266.000 8.79 36.12 41.55	Freq Loss Factor Factor Level MHz dB dB/m dB dBuV 1682.477 3.42 26.60 40.62 46.14 4392.376 6.66 33.42 42.47 48.00 4844.000 7.14 34.02 42.79 46.24 5881.418 8.24 34.99 42.31 49.05 7266.000 8.79 36.12 41.55 45.55	MHz dB dB/m dB dBuV dBuV/m 1682.477 3.42 26.60 40.62 46.14 35.54 4392.376 6.66 33.42 42.47 48.00 45.61 4844.000 7.14 34.02 42.79 46.24 44.61 5881.418 8.24 34.99 42.31 49.05 49.97 7266.000 8.79 36.12 41.55 45.55 48.91	Freq Loss Factor Factor Level Level Line MHz dB dB/m dB dBuV dBuV/m dBuV/m 1682.477 3.42 26.60 40.62 46.14 35.54 74.00 4392.376 6.66 33.42 42.47 48.00 45.61 74.00 4844.000 7.14 34.02 42.79 46.24 44.61 74.00 5881.418 8.24 34.99 42.31 49.05 49.97 74.00 7266.000 8.79 36.12 41.55 45.55 48.91 74.00	Freq Cable Loss Factor Factor Read Level Level Level Line Limit Limit Limit Over Level Level Level Line Limit MHz dB dB/m dB dBuV dBuV/m dBuV/m dBuV/m dB 1682.477 3.42 26.60 40.62 46.14 35.54 74.00 -38.46 4392.376 6.66 33.42 42.47 48.00 45.61 74.00 -28.39 4844.000 7.14 34.02 42.79 46.24 44.61 74.00 -29.39 5881.418 8.24 34.99 42.31 49.05 49.97 74.00 -24.03 7266.000 8.79 36.12 41.55 45.55 48.91 74.00 -25.09 9688.000 10.78 37.71 38.45 42.22 52.26 74.00 -21.74



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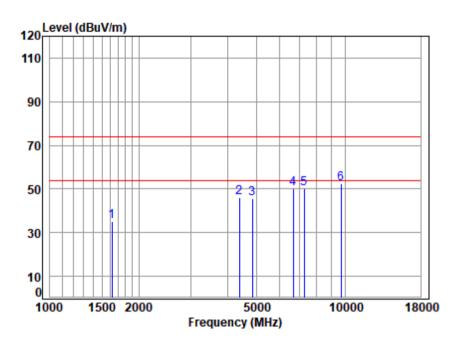
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Report No.: SZEM200900871802

Page: 139 of 328

Test Mode: 00; Polarity: Vertical; Bandwidth: 40MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 08718CR&08719CR

Mode : 2422 TX SE

Note : 2.4G WIFI 11AX40

: 4TX

		-							
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1620.431	3.36	26.34	40.58	45.85	34.97	74.00	-39.03	peak
2	4379.699	6.65	33.39	42.46	48.37	45.95	74.00	-28.05	peak
3	4844.000	7.14	34.02	42.79	47.04	45.41	74.00	-28.59	peak
4	6679.040	8.38	35.71	41.85	48.03	50.27	74.00	-23.73	peak
5	7266.000	8.79	36.12	41.55	46.65	50.01	74.00	-23.99	peak
6	9688.000	10.78	37.71	38.45	42.26	52.30	74.00	-21.70	peak



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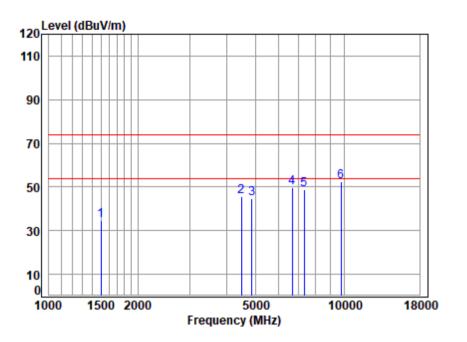
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Report No.: SZEM200900871802

Page: 140 of 328

Test Mode: 00; Polarity: Horizontal; Bandwidth: 40MHz; Channel: middle



Site : chamber

Condition: 3m HORIZONTAL Job No : 08718CR&08719CR

Mode : 2437 TX SE

Note : 2.4G WIFI 11AX40

: 4TX

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1503.119	3.26	25.81	40.51	46.09	34.65	74.00	-39.35	peak
2	4495.125	6.76	33.59	42.55	47.69	45.49	74.00	-28.51	peak
3	4874.000	7.17	34.05	42.82	46.23	44.63	74.00	-29.37	peak
4	6659.763	8.37	35.70	41.86	47.73	49.94	74.00	-24.06	peak
5	7311.000	8.84	36.15	41.53	45.24	48.70	74.00	-25.30	peak
6	9748.000	10.76	37.75	38.37	42.29	52.43	74.00	-21.57	peak



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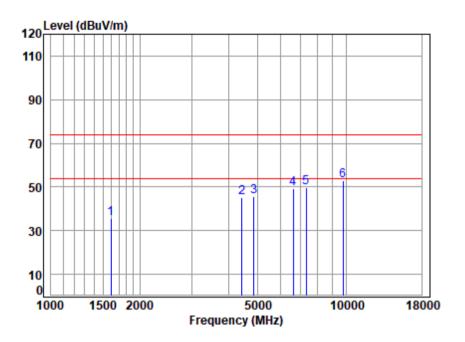
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Page: 141 of 328

Test Mode: 00; Polarity: Vertical; Bandwidth: 40MHz; Channel: middle



Site : chamber Condition: 3m VERTICAL

Job No : 08718CR&08719CR

Mode : 2437 TX SE

Note : 2.4G WIFI 11AX40

: 4TX

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1597.181	3.35	26.24	40.57	46.59	35.61	74.00	-38.39	peak
2	4443.453	6.71	33.50	42.51	47.41	45.11	74.00	-28.89	peak
3	4874.000	7.17	34.05	42.82	47.31	45.71	74.00	-28.29	peak
4	6621.375	8.34	35.67	41.88	47.25	49.38	74.00	-24.62	peak
5	7311.000	8.84	36.15	41.53	46.39	49.85	74.00	-24.15	peak
6	9748.000	10.76	37.75	38.37	42.83	52.97	74.00	-21.03	peak



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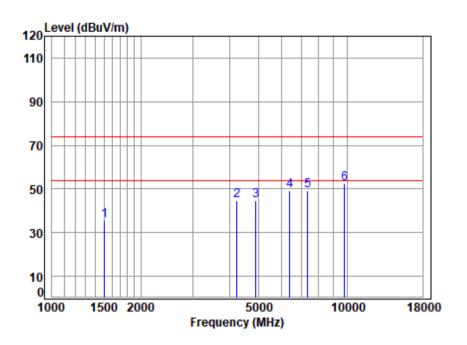
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Report No.: SZEM200900871802

Page: 142 of 328

Test Mode: 00; Polarity: Horizontal; Bandwidth: 40MHz; Channel: High



Site : chamber

Condition: 3m HORIZONTAL Job No : 08718CR&08719CR

Mode : 2452 TX SE

Note : 2.4G WIFI 11AX40

: 4TX

	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	
1507.470	3.27	25.83	40.51	47.04	35.63	74.00	-38.37	peak
4230.396	6.51	33.13	42.34	47.46	44.76	74.00	-29.24	peak
4904.000	7.20	34.09	42.84	46.31	44.76	74.00	-29.24	peak
6395.654	8.28	35.50	42.01	47.64	49.41	74.00	-24.59	peak
7356.000	8.88	36.19	41.50	45.64	49.21	74.00	-24.79	peak
9808.000	10.75	37.79	38.28	42.37	52.63	74.00	-21.37	peak
	MHz 1507.470 4230.396 4904.000 6395.654 7356.000	Freq Loss MHz dB 1507.470 3.27 4230.396 6.51 4904.000 7.20 6395.654 8.28 7356.000 8.88	Freq Loss Factor MHz dB dB/m 1507.470 3.27 25.83 4230.396 6.51 33.13 4904.000 7.20 34.09 6395.654 8.28 35.50 7356.000 8.88 36.19	Freq Loss Factor Factor MHz dB dB/m dB 1507.470 3.27 25.83 40.51 4230.396 6.51 33.13 42.34 4904.000 7.20 34.09 42.84 6395.654 8.28 35.50 42.01 7356.000 8.88 36.19 41.50	Freq Loss Factor Factor Level MHz dB dB/m dB dBuV 1507.470 3.27 25.83 40.51 47.04 4230.396 6.51 33.13 42.34 47.46 4904.000 7.20 34.09 42.84 46.31 6395.654 8.28 35.50 42.01 47.64 7356.000 8.88 36.19 41.50 45.64	Freq Loss Factor Factor Level Level MHz dB dB/m dB dBuV dBuV/m 1507.470 3.27 25.83 40.51 47.04 35.63 4230.396 6.51 33.13 42.34 47.46 44.76 4904.000 7.20 34.09 42.84 46.31 44.76 6395.654 8.28 35.50 42.01 47.64 49.41 7356.000 8.88 36.19 41.50 45.64 49.21	Freq Loss Factor Factor Level Level Line MHz dB dB/m dB dBuV dBuV/m dBuV/m 1507.470 3.27 25.83 40.51 47.04 35.63 74.00 4230.396 6.51 33.13 42.34 47.46 44.76 74.00 4904.000 7.20 34.09 42.84 46.31 44.76 74.00 6395.654 8.28 35.50 42.01 47.64 49.41 74.00 7356.000 8.88 36.19 41.50 45.64 49.21 74.00	Freq Cable Loss Factor Factor Read Level Level Level Limit Limit Over Level Limit MHz dB dB/m dB dBuV dBuV/m dBuV/m<



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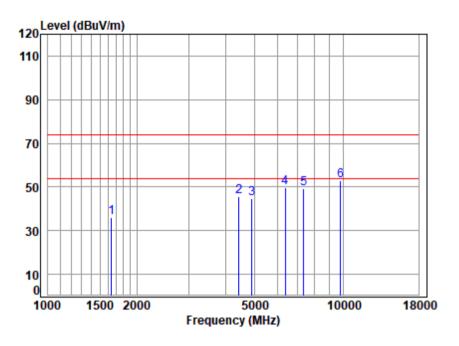
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Report No.: SZEM200900871802

Page: 143 of 328

Test Mode: 00; Polarity: Vertical; Bandwidth: 40MHz; Channel: High



Site : chamber Condition: 3m VERTICAL

Job No : 08718CR&08719CR

Mode : 2452 TX SE

Note : 2.4G WIFI 11AX40

: 4TX

		•							
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1644.019	3.38	26.44	40.60	46.72	35.94	74.00	-38.06	peak
2	4443.453	6.71	33.50	42.51	47.71	45.41	74.00	-28.59	peak
3	4904.000	7.20	34.09	42.84	46.43	44.88	74.00	-29.12	peak
4	6377.195	8.28	35.48	42.02	47.88	49.62	74.00	-24.38	peak
5	7356.000	8.88	36.19	41.50	45.93	49.50	74.00	-24.50	peak
6	9808.000	10.75	37.79	38.28	42.74	53.00	74.00	-21.00	peak



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Report No.: SZEM200900871802

Page: 144 of 328

8 Emission Test Results

8.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement: 47 CFR Part 15, Subpart C 15.207
Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Function of aminaian/BALL=)	Conducted limit(dBμV)						
Frequency of emission(MHz)	Quasi-peak	Average					
0.15-0.5	66 to 56*	56 to 46*					
0.5-5	56	46					
5-30	5-30 60 50						
*Decreases with the logarithm of the frequency.							
Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz							

8.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C Humidity: 56 % RH Atmospheric Pressure: 1000 mbar

8.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @8Mbps is the worst case of IEEE 802.11ax(HE20); data rate@16Mbps is the worst case of IEEE 802.11ax(HE40). Only the data of worst case is recorded in the report.



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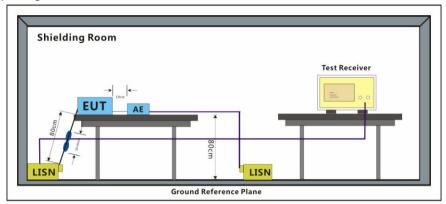
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Report No.: SZEM200900871802

Page: 145 of 328

8.1.3 Test Setup Diagram



8.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50µH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: LISN=Read Level+ Cable Loss+ LISN Factor



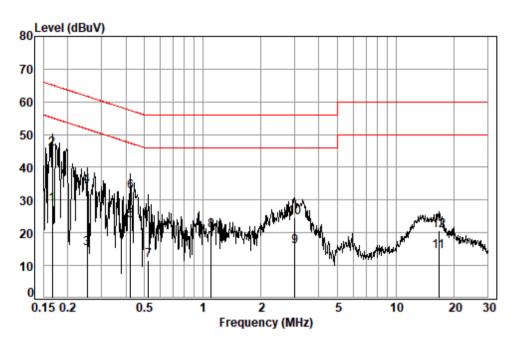
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Report No.: SZEM200900871802

Page: 146 of 328

Test Mode: 00: Line: Live line



Site : Shielding Room

Condition: Line Job No. : 08718CR

Test mode: 00

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1668	0.01	9.68	18.83	28.52	55.12	-26.60	Average
2	0.1668	0.01	9.68	36.00	45.69		-19.43	_
3	0.2521	0.03	9.68	5.62	15.33			Average
4	0.2521	0.03	9.68	24.62	34.33	61.69	-27.36	QP
5	0.4237	0.05	9.68	14.13	23.86	47.37	-23.51	Average
6	0.4237	0.05	9.68	22.85	32.58	57.37	-24.79	QP
7	0.5238	0.06	9.69	1.81	11.56	46.00	-34.44	Average
8	1.1056	0.10	9.71	10.74	20.55	56.00	-35.45	QP
9	3.0094	0.16	9.76	6.01	15.93	46.00	-30.07	Average
10	3.0094	0.16	9.76	14.84	24.76	56.00	-31.24	QP
11	16.6612	0.22	10.69	3.53	14.44	50.00	-35.56	Average
12	16.6612	0.22	10.69	9.81	20.72	60.00	-39.28	QP



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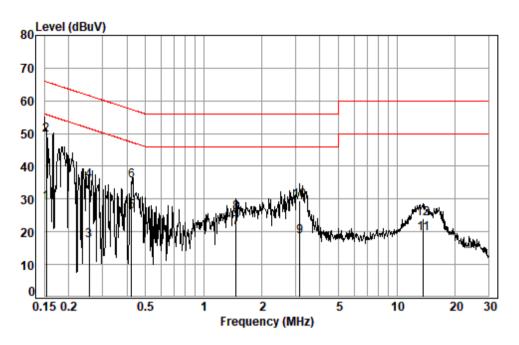
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Report No.: SZEM200900871802

Page: 147 of 328

Test Mode: 00: Line: Neutral Line



: Shielding Room

Condition: Neutral Job No. : 08718CR

Test mode: 00

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1532	0.01	9.67	19.22	28.90	55.82	-26.92	Average
2	0.1532	0.01	9.67	40.05	49.73	65.82	-16.09	QP
3	0.2548	0.03	9.66	7.65	17.34	51.60	-34.26	Average
4	0.2548	0.03	9.66	25.78	35.47	61.60	-26.13	QP
5	0.4241	0.05	9.67	16.51	26.23	47.37	-21.14	Average
6	0.4241	0.05	9.67	25.85	35.57	57.37	-21.80	QP
7	1.4718	0.13	9.71	11.60	21.44	46.00	-24.56	Average
8	1.4718	0.13	9.71	16.04	25.88	56.00	-30.12	QP
9	3.1563	0.16	9.77	8.77	18.70	46.00	-27.30	Average
10	3.1563	0.16	9.77	19.45	29.38	56.00	-26.62	QP
11	13.6952	0.20	10.52	8.74	19.46	50.00	-30.54	Average
12	13.6952	0.20	10.52	13.36	24.08	60.00	-35.92	QP



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9 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZEM2009008718CR



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Page: 149 of 328

10 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for SZEM2009008718CR



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Report No.: SZEM200900871802

Page: 150 of 328

11 Appendix

11.1 Appendix for 15.247 - 2.4G WiFi-CDD

1. Duty Cycle

1.1 Test Result

Test Mode	Channel Frequency(MHz)	ТХ Туре	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
	2412	MIMO	1	4.431	5.080	87.22	0.59
802.11b	2437	MIMO	1	4.419	5.063	87.28	0.59
	2462	MIMO	1	4.419	5.063	87.28	0.59
	2412	MIMO	1	2.061	2.169	95.02	0.22
802.11g	2437	MIMO	1	2.060	2.171	94.89	0.23
	2462	MIMO	1	2.061	2.172	94.89	0.23
	2412	MIMO	1	1.927	2.028	95.02	0.22
802.11n(HT20)	2437	MIMO	1	1.928	2.029	95.02	0.22
	2462	MIMO	1	1.928	2.031	94.93	0.23
	2422	MIMO	1	0.949	1.049	90.47	0.43
802.11n(HT40)	2437	MIMO	1	0.948	1.048	90.46	0.44
	2452	MIMO	1	0.947	1.048	90.36	0.44



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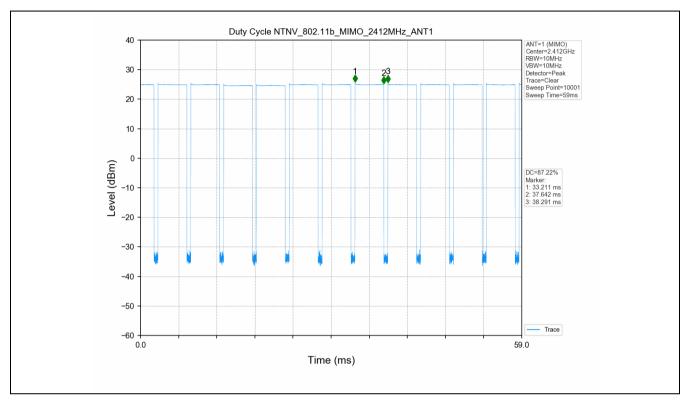
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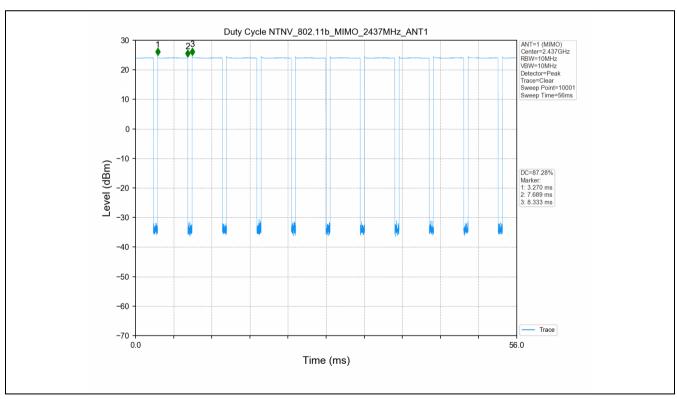


Report No.: SZEM200900871802

Page: 151 of 328

1.2 Test Graph







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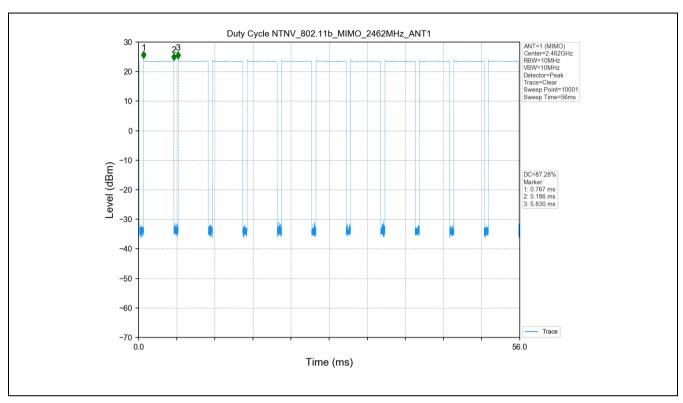
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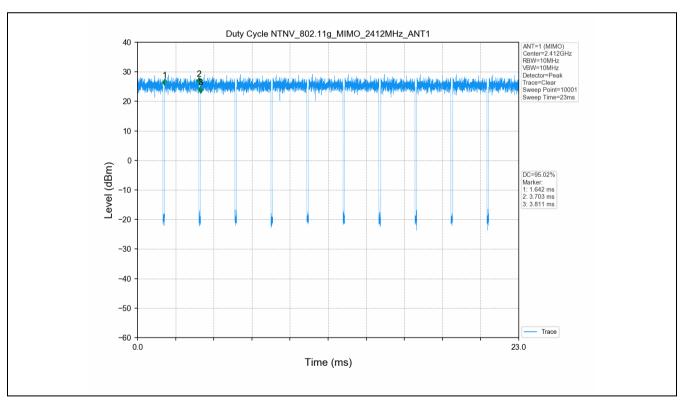
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Report No.: SZEM200900871802

Page: 152 of 328







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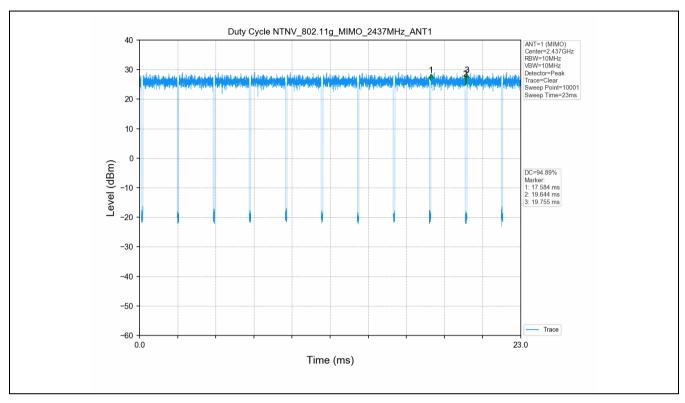
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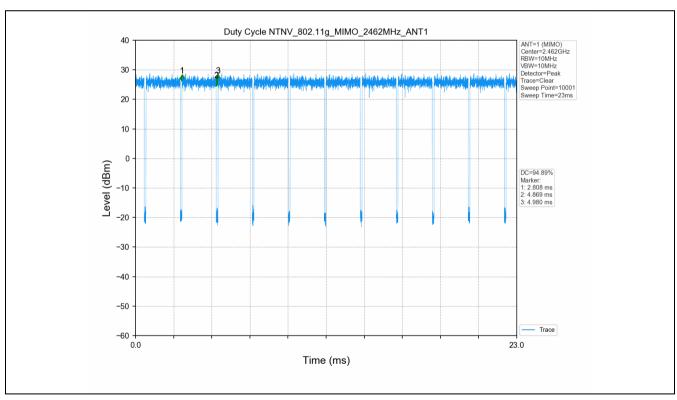
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Page: 153 of 328







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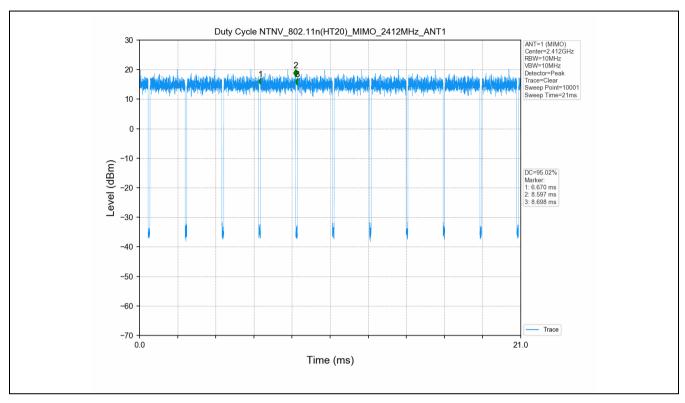
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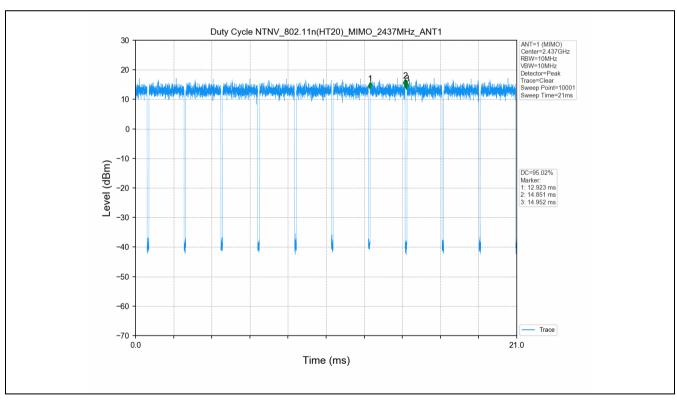
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Page: 154 of 328







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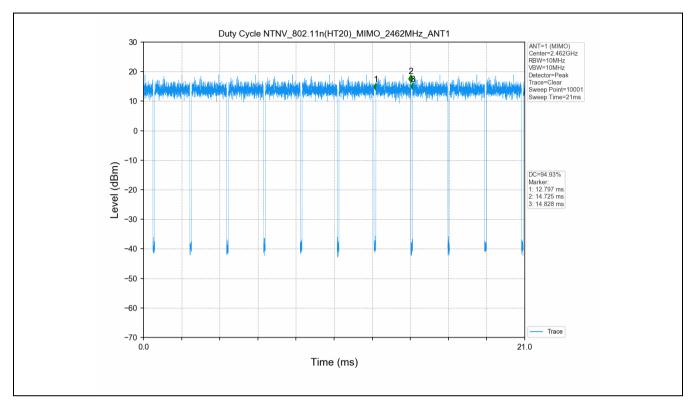
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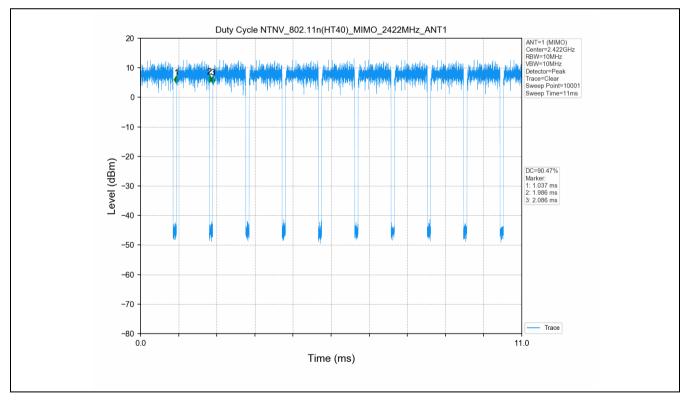
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Report No.: SZEM200900871802

Page: 155 of 328







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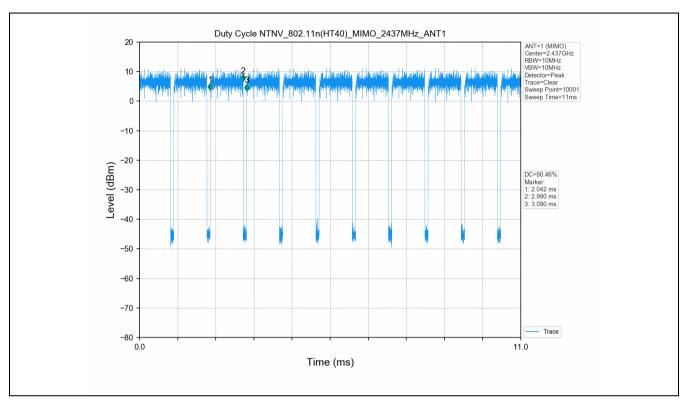
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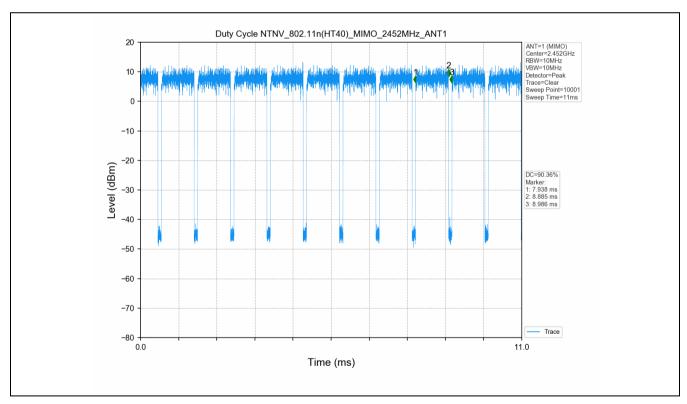
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Page: 156 of 328





2. Bandwidth



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Report No.: SZEM200900871802

Page: 157 of 328

2.1 Test Result

Took Mode	Frequency	TV Tura	ANIT NIA	6dB Bar	Verdict		
Test Mode	(MHz)	TX Type	ANT No.	Test Result (MHz)	Limits (MHz)	verdict	
	2412	MIMO	1	6.619	≥0.5	PASS	
802.11b	2437	MIMO	1	6.132	≥0.5	PASS	
	2462	MIMO	1	7.598	≥0.5	PASS	
	2412	MIMO	1	16.370	≥0.5	PASS	
802.11g	2437	MIMO	1	16.393	≥0.5	PASS	
	2462	MIMO	1	16.379	≥0.5	PASS	
	2412	MIMO	1	16.408	≥0.5	PASS	
802.11n(HT20)	2437	MIMO	1	17.622	≥0.5	PASS	
	2462	MIMO	1	17.598	≥0.5	PASS	
	2422	MIMO	1	35.248	≥0.5	PASS	
802.11n(HT40)	2437	MIMO	1	36.423	≥0.5	PASS	
	2452	MIMO	1	35.591	≥0.5	PASS	

Took Mode	Frequency	TV Turns	ANIT NI	99% Occupied Bandwidth Test Result (MHz)				
Test Mode	(MHz)	TX Type	ANT No.					
	2412	MIMO	1	10.404	Only for Report Use			
802.11b	2437	MIMO	1	10.480	Only for Report Use			
	2462	MIMO	1	10.511	Only for Report Use			
	2412	MIMO	1	17.281	Only for Report Use			
802.11g	2437	MIMO	1	17.836	Only for Report Use			
	2462	MIMO	1	17.533	Only for Report Use			
	2412	MIMO	1	18.336	Only for Report Use			
802.11n(HT20)	2437	MIMO	1	18.636	Only for Report Use			
	2462	MIMO	1	18.344	Only for Report Use			
	2422	MIMO	1	36.794	Only for Report Use			
802.11n(HT40)	2437	MIMO	1	37.250	Only for Report Use			
	2452	MIMO	1	36.917	Only for Report Use			



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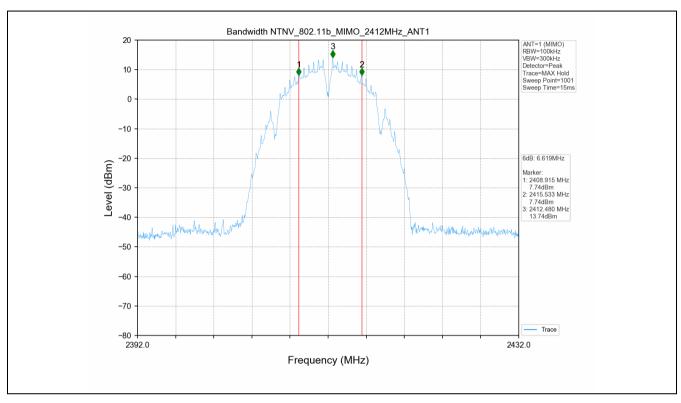
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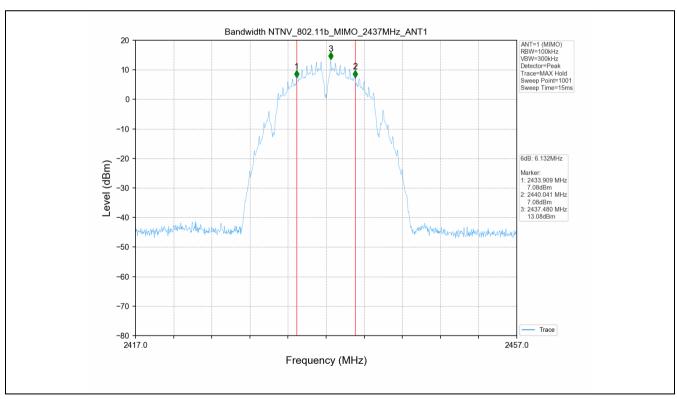


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Page: 158 of 328

2.2 Test Graph - 6dB Bandwidth







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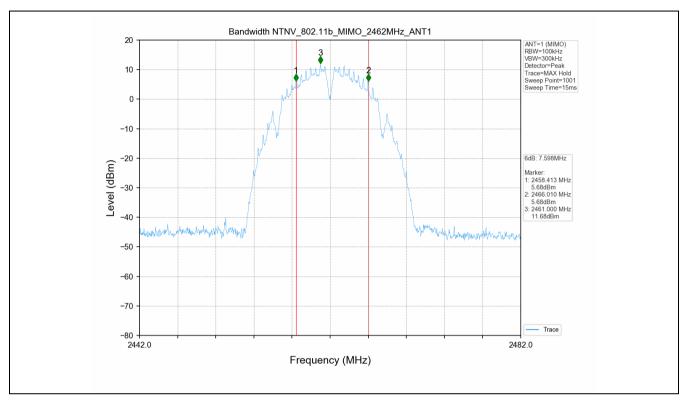
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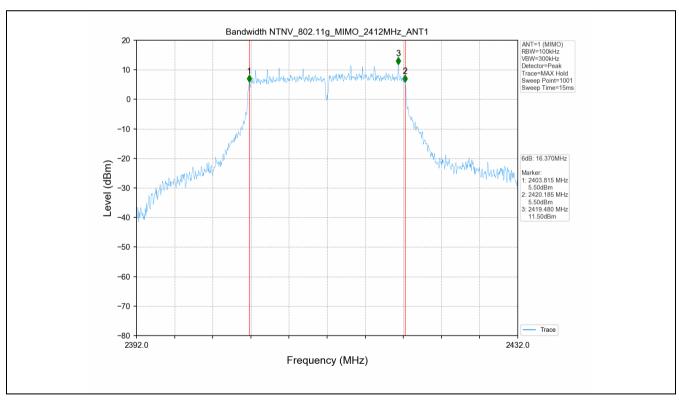
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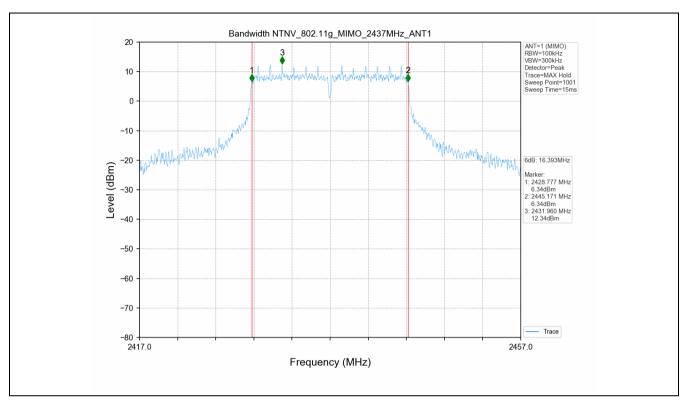
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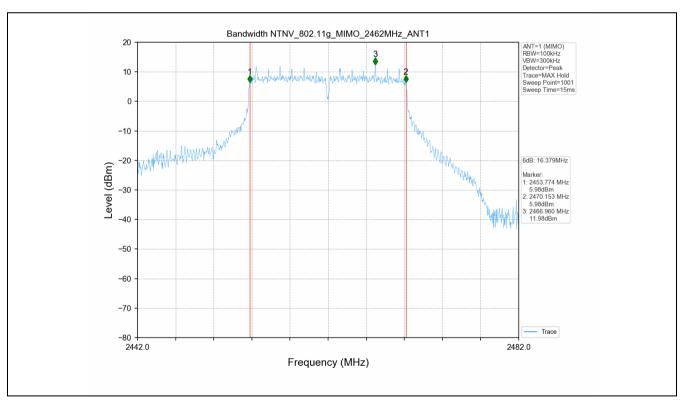
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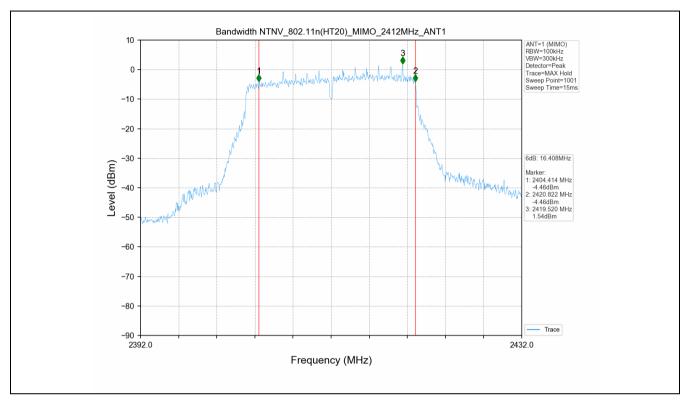
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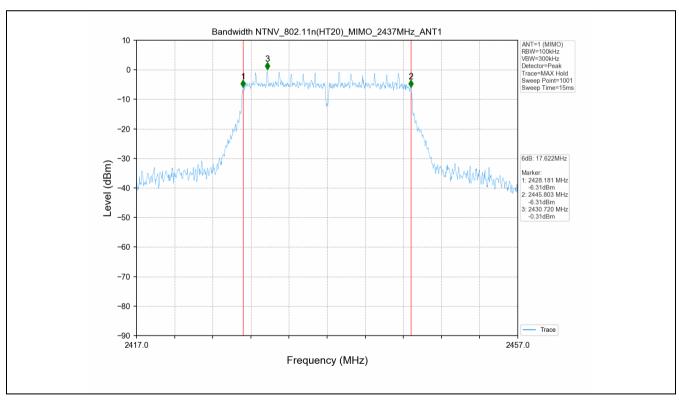
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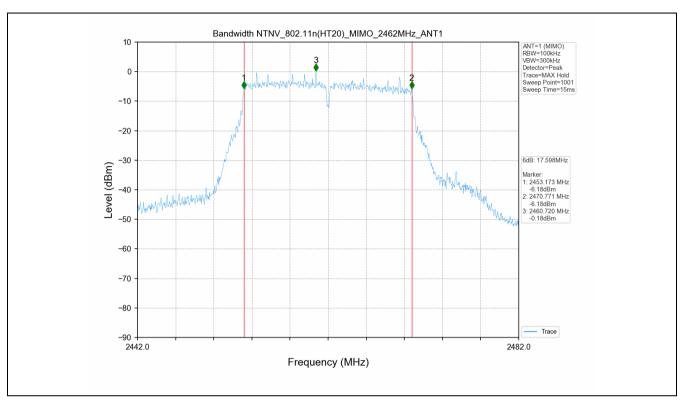
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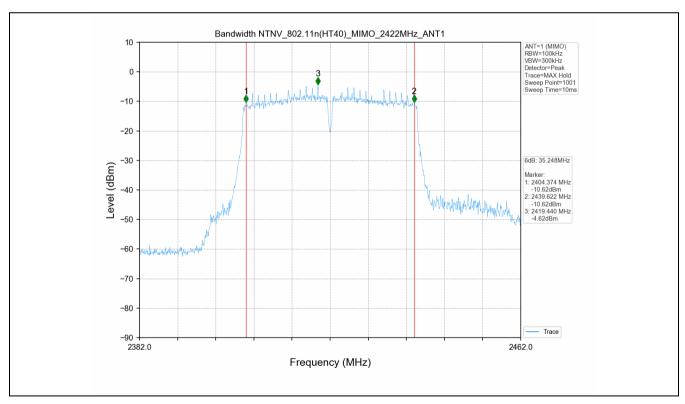
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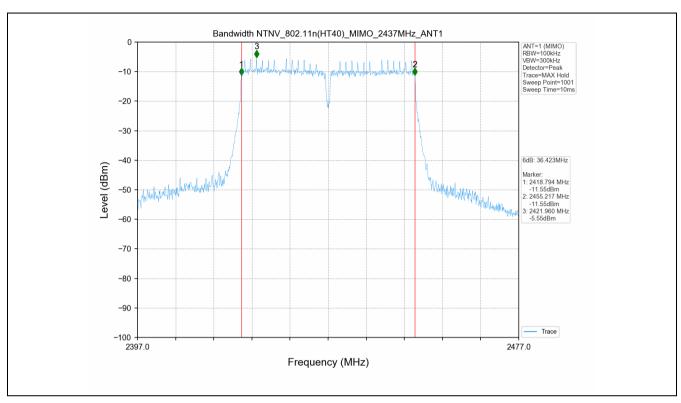
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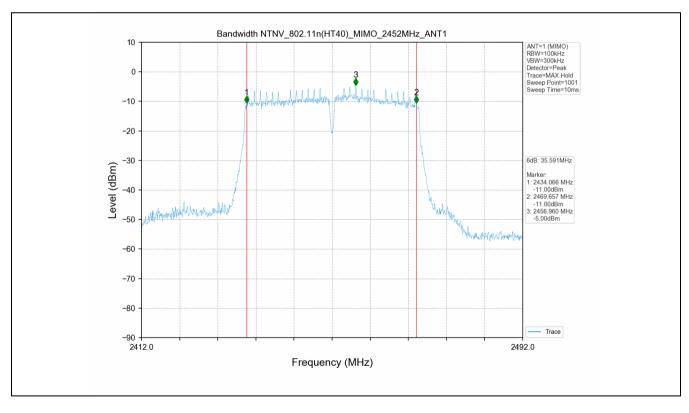
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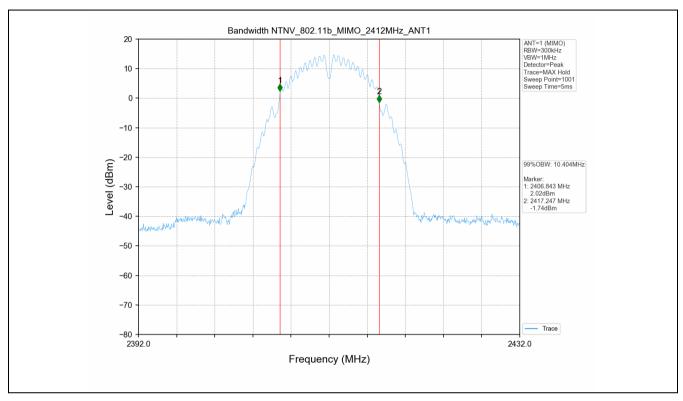
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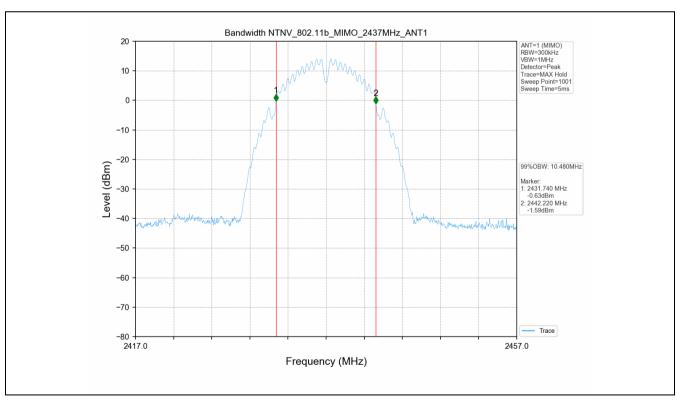


Report No.: SZEM200900871802

Page: 164 of 328

2.3 Test Graph - 99% Occupied Bandwidth







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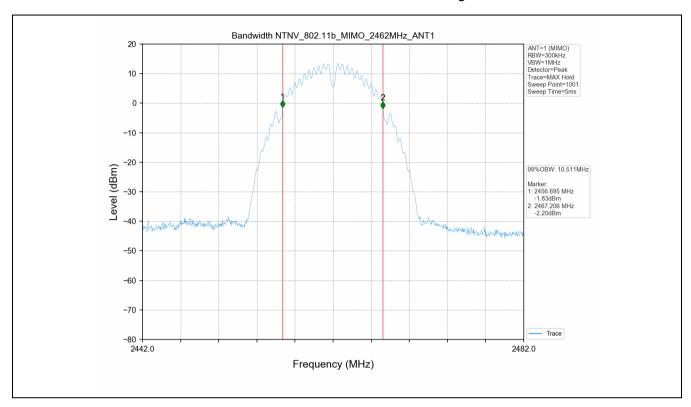
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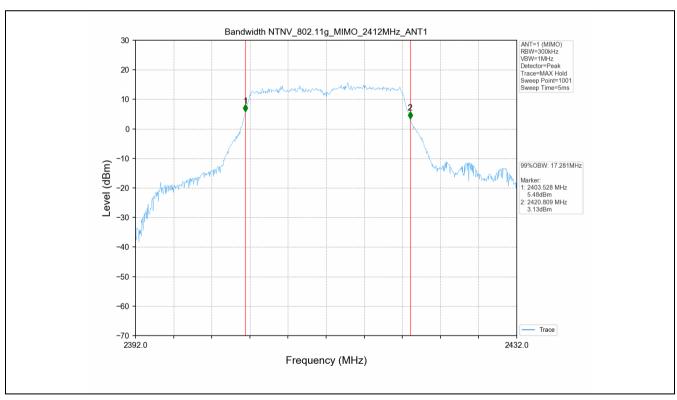
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Page: 165 of 328







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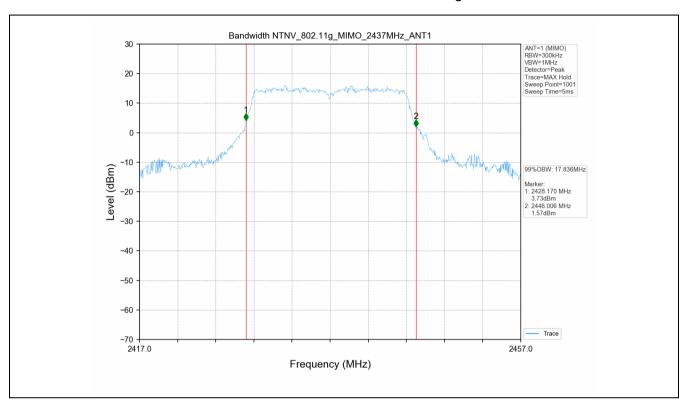
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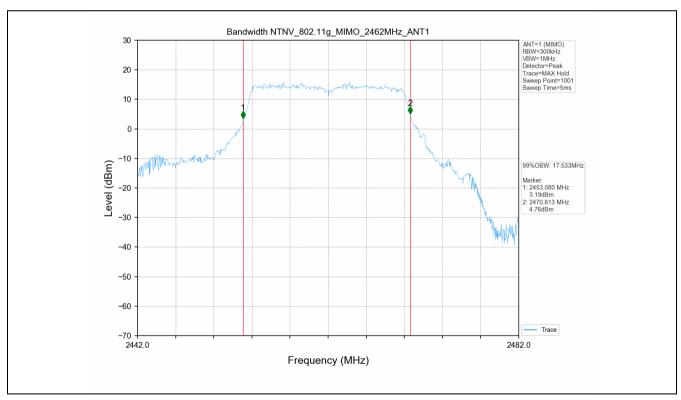
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Page: 166 of 328







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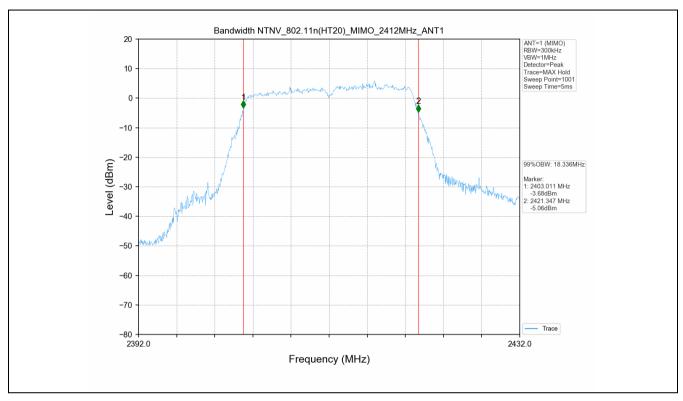
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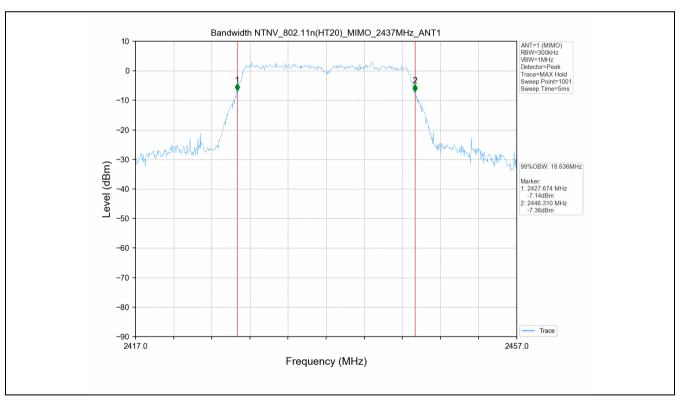
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Page: 167 of 328







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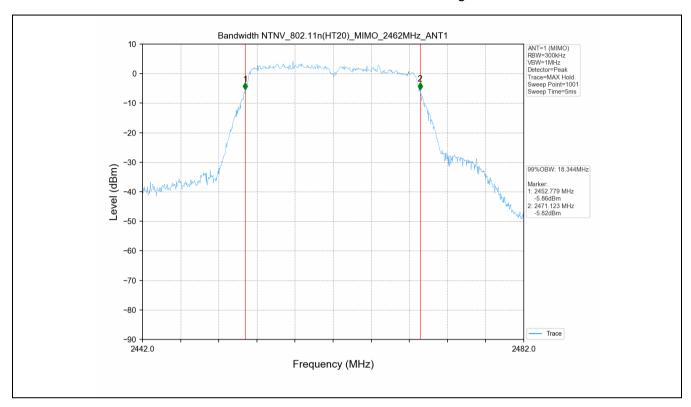
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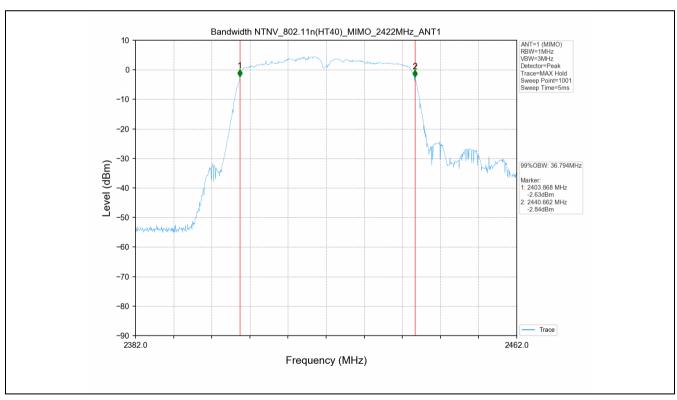
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Page: 168 of 328







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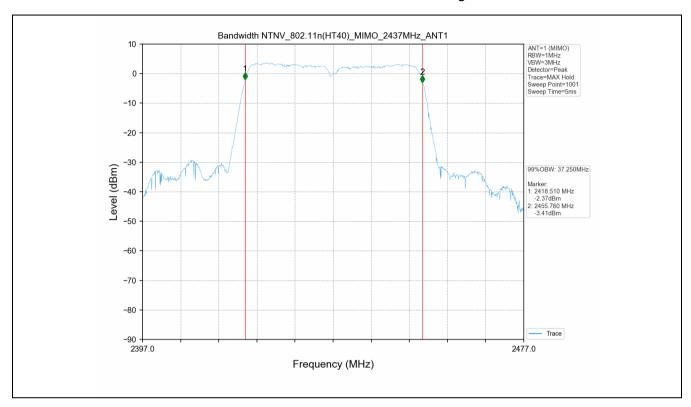
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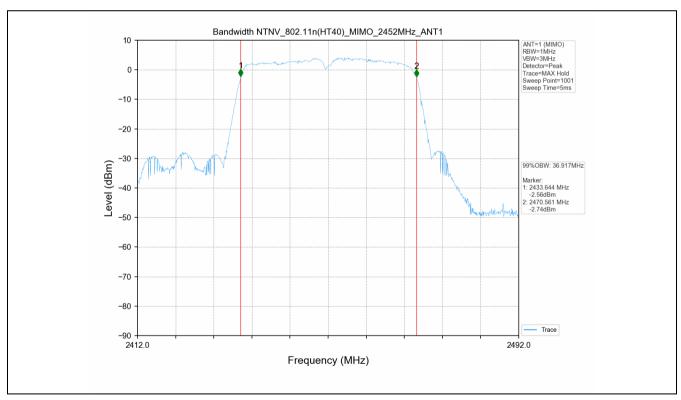
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Page: 169 of 328







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Page: 170 of 328

3. Maximum Conducted Output Power

3.1 Test Result

Test Mode	Frequency Ty Typ		Meas	ured Aver	Limita (dDm)	Verdict			
	(MHz)	Tx Type	Ant 1	Ant 2	Ant 3	Ant 4	Total	Limits (dBm)	verdict
	2412	MIMO	23.4	23.36	23.59	23.31	29.44	30	PASS
802.11b	2437	MIMO	23.34	23.45	23.58	23.3	29.44	30	PASS
	2462	MIMO	23.4	23.4	23.7	23.55	29.53	30	PASS
	2412	MIMO	23.35	23.48	23.56	23.41	29.47	30	PASS
802.11g	2437	MIMO	23.89	23.86	24.05	23.85	29.93	30	PASS
	2462	MIMO	23.95	23.89	24.05	23.91	29.97	30	PASS
	2412	MIMO	23.11	23	23.21	23.09	29.12	30	PASS
802.11n(HT20)	2437	MIMO	23.46	23.51	23.67	23.48	29.55	30	PASS
	2462	MIMO	22.89	22.95	23.11	22.93	28.99	30	PASS
802.11n(HT40)	2422	MIMO	21.23	21.35	21.19	21.07	27.23	30	PASS
	2437	MIMO	23.46	23.51	23.73	23.49	29.57	30	PASS
	2452	MIMO	21.08	21.1	21.33	21.26	27.21	30	PASS



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