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Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053 Report No.: SZEM180100075801

Fax: +86 (0) 755 2671 0594 Page: 1 of 136

TEST REPORT

Application No.: SZEM1801000758CR

Applicant: SHENZHEN ELECTRON TECHNOLOGY CO., LTD

Address of Applicant: Bld.2, Yingfeng Industrial Zone, Tantou Community, Songgang Street,

Bao'an, Shenzhen

Manufacturer: SHENZHEN ELECTRON TECHNOLOGY CO., LTD

Address of Manufacturer: Bld.2, Yingfeng Industrial Zone, Tantou Community, Songgang Street,

Bao'an, Shenzhen

Factory: SHENZHEN ELECTRON TECHNOLOGY CO., LTD

Address of Factory: Bld.2, Yingfeng Industrial Zone, Tantou Community, Songgang Street,

Bao'an, Shenzhen

Equipment Under Test (EUT):

EUT Name: Wifi Digital Photo Frame

Model No.: W13B, S08A, S10A, S13A, W17A, S17A, NSP01 *

Please refer to section 2 of this report which indicates which model was

actually tested and which were electrically identical.

FCC ID: 2ABC5-B0523

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

Date of Receipt: 2018-01-25

Date of Test: 2018-01-29 to 2018-02-05

Date of Issue: 2018-02-07

Test Result: Pass*



EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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



Report No.: SZEM180100075801

Page: 2 of 136

| | Revision Record | | | | | | |
|---------|-------------------------------|------------|--|----------|--|--|--|
| Version | Version Chapter Date Modifier | | | | | | |
| 01 | | 2018-02-07 | | Original | | | |
| | | | | | | | |
| | | | | | | | |

| Authorized for issue by: | | |
|--------------------------|--------------------------|--|
| | Co. Ci | |
| | Leo Li /Project Engineer | |
| | EvicFu | |
| | Eric Fu /Reviewer | |



Report No.: SZEM180100075801

Page: 3 of 136

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(c) | Pass | | |

| Radio Spectrum Matter Part | | | | | | | |
|---|-------------------------------------|---|---|--------|--|--|--|
| Item | Standard | Method | Requirement | Result | | | |
| 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 | | | |
| Minimum 6dB Bandwidth | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2013) Section 11.8.1 | 47 CFR Part 15, Subpart C 15.247a(2) | Pass | | | |
| Conducted Peak Output Power | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2013) Section 7.8.5 | 47 CFR Part 15, Subpart C 15.247(b)(3) | Pass | | | |
| 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 Edges Measurement | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2013) Section 7.8.6 | 47 CFR Part 15, Subpart C 15.247(d) | Pass | | | |
| Conducted Spurious Emissions | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2013) Section 7.8.8 | 47 CFR Part 15, Subpart C 15.247(d) | Pass | | | |
| Radiated Emissions which fall in the restricted bands | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2013) Section 6.10.5 | 47 CFR Part 15, Subpart C 15.209 & 15.247(d) | Pass | | | |
| Radiated Spurious Emissions | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2013) Section 6.4&6.5&6.6 | 47 CFR Part 15, Subpart C 15.209 & 15.247(d) | Pass | | | |

Remark:

Model No.: W13B, S08A, S10A, S13A, W17A, S17A, NSP01

Only the model W13B was tested, since the electrical circuit design, layout, components used, internal wiring and functions were identical for all the above models, only different on model name.



Report No.: SZEM180100075801

Page: 4 of 136

3 Contents

| | | | Page |
|---|----------------|---|------------|
| 1 | COVE | R PAGE | 1 |
| 2 | TEST | SUMMARY | 3 |
| 3 | CONT | TENTS | 4 |
| | OFNE | TRAL INFORMATION | |
| 4 | | ERAL INFORMATION | |
| | | DETAILS OF E.U.T | _ |
| | | DESCRIPTION OF SUPPORT UNITS | |
| | | MEASUREMENT UNCERTAINTY | |
| | | TEST LOCATION | |
| | | TEST FACILITYDEVIATION FROM STANDARDS | |
| | | ABNORMALITIES FROM STANDARD CONDITIONS | |
| | | | |
| 5 | EQUI | PMENT LIST | 8 |
| _ | | | |
| 6 | | O SPECTRUM TECHNICAL REQUIREMENT | |
| | 6.1 | Antenna Requirement | |
| | 6.1.1 | Test Requirement: | |
| | 6.1.2 | Conclusion | 12 |
| 7 | RADI | O SPECTRUM MATTER TEST RESULTS | 13 |
| | 7.1 | CONDUCTED EMISSIONS AT AC POWER LINE (150kHz-30MHz) | 10 |
| | 7.1.1 | | دا۱۵ 1/ |
| | 7.1.2 | Test Setup Diagram | |
| | 7.1.3 | Measurement Procedure and Data | |
| | _ | MINIMUM 6DB BANDWIDTH | |
| | 7.2.1 | E.U.T. Operation | 17 |
| | 7.2.2 | Test Setup Diagram | 17 |
| | 7.2.3 | Measurement Procedure and Data | |
| | | CONDUCTED PEAK OUTPUT POWER | |
| | 7.3.1 | , | |
| | 7.3.2 | Test Setup Diagram | |
| | 7.3.3 | Measurement Procedure and Data POWER SPECTRUM DENSITY | |
| | 7.4 I 7.4.1 | | ······ |
| | 7.4.1 7.4.2 | Test Setup Diagram | |
| | 7.4.3 | Measurement Procedure and Data | |
| | | CONDUCTED BAND EDGES MEASUREMENT | |
| | 7.5.1 | E.U.T. Operation | |
| | 7.5.2 | Test Setup Diagram | |
| | 7.5.3 | Measurement Procedure and Data | 22 |
| | | CONDUCTED SPURIOUS EMISSIONS | |
| | 7.6.1 | E.U.T. Operation | |
| | 7.6.2 | Test Setup Diagram | |
| | 7.6.3 | Measurement Procedure and Data | |
| | | RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS | |
| | 7.7.1 | E.U.T. Operation | |
| | 7.7.2 | Test Setup Diagram | 26 |

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Report No.: SZEM180100075801

Page: 5 of 136

| | 7.7. | 3 Measurement Procedure and Data | 27 |
|---|------|--|--------|
| | 7.8 | RADIATED SPURIOUS EMISSIONS | 60 |
| | 7.8. | 1 E.U.T. Operation | 61 |
| | 7.8. | 2 Test Setup Diagram | 61 |
| | 7.8. | | 62 |
| 8 | PHO | DTOGRAPHS | 89 |
| | 8.1 | CONDUCTED EMISSIONS AT AC POWER LINE (150KHz-30MHz) TEST SETUP | 89 |
| | 8.2 | RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS TEST SETUP | 89 |
| | 8.3 | RADIATED SPURIOUS EMISSIONS TEST SETUP | 90 |
| | 8.4 | EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS) | 90 |
| 9 | APF | PENDIX | 91 |
| | 9.1 | APPENDIX 15.247 | 91-136 |



Report No.: SZEM180100075801

Page: 6 of 136

4 General Information

4.1 Details of E.U.T.

| Power supply: | DC 12V from adapter input AC 120V/60Hz |
|---------------------|--|
| | Adapter Model:NBS12E120100UV |
| | Input:AC100-240V 50/60Hz 0.3A |
| | Output: DC 12V 1.0A |
| Cable: | DC cable: 180cm shielded |
| Antenna Gain | 3.58dBi |
| Antenna Type | FPC Antenna |
| Channel Spacing | 5MHz |
| Modulation Type | 802.11b: DSSS (CCK, DQPSK, DBPSK) |
| | 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) |
| | 802.11n(HT20 and HT40): |
| Number of Channels | 802.11b/g/n(HT20):11 |
| | 802.11n(HT40):7 |
| Operation Frequency | 802.11b/g/n(HT20): 2412MHz to 2462MHz |
| | 802.11n(HT40): 2422MHz to 2452MHz |

4.2 Description of Support Units

The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

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



Report No.: SZEM180100075801

Page: 7 of 136

4.4 Test Location

All tests were performed at:

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

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

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

No tests were sub-contracted.

4.5 Test Facility

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

• CNAS (No. CNAS L2929)

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

A2LA (Certificate No. 3816.01)

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

VCCI

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

FCC –Designation Number: CN1178

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

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

Industry Canada (IC)

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



Report No.: SZEM180100075801

Page: 8 of 136

5 Equipment List

| 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 | 2017-05-10 | 2018-05-09 | |
| Measurement Software | AUDIX | e3 V5.4.1221d | N/A | N/A | N/A | |
| Coaxial Cable | SGS | N/A | SEM024-01 | 2017-07-13 | 2018-07-12 | |
| LISN | Rohde & Schwarz | ENV216 | SEM007-01 | 2017-09-27 | 2018-09-26 | |
| LISN | ETS-LINDGREN | 3816/2 | SEM007-02 | 2017-04-14 | 2018-04-13 | |
| EMI Test Receiver | Rohde & Schwarz | ESCI | SEM004-02 | 2017-04-14 | 2018-04-13 | |

| Minimum 6dB Bandwidth | | | | | | | |
|-----------------------|----------------------|-------------------------|--------------|------------|--------------|--|--|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date | | |
| DC Power Supply | ZhaoXin | RXN-305D | SEM011-02 | 2017-09-27 | 2018-09-26 | | |
| Spectrum Analyzer | Rohde & Schwarz | FSP | SEM004-06 | 2017-09-27 | 2018-09-26 | | |
| Measurement Software | JS Tonscend | JS1120-2 BT/WIFI V2. | N/A | N/A | N/A | | |
| Coaxial Cable | SGS | N/A | SEM031-02 | 2017-07-13 | 2018-07-12 | | |
| Attenuator | Weinschel Associates | WA41 | SEM021-09 | N/A | N/A | | |
| Signal Generator | KEYSIGHT | N5173B | SEM006-05 | 2017-09-27 | 2018-09-26 | | |
| Power Meter | Rohde & Schwarz | NRVS | SEM014-02 | 2017-09-27 | 2018-09-26 | | |

| Conducted Peak Output Power | | | | | | |
|-----------------------------|----------------------|-------------------------|--------------|------------|--------------|--|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date | |
| DC Power Supply | ZhaoXin | RXN-305D | SEM011-02 | 2017-09-27 | 2018-09-26 | |
| Spectrum Analyzer | Rohde & Schwarz | FSP | SEM004-06 | 2017-09-27 | 2018-09-26 | |
| Measurement Software | JS Tonscend | JS1120-2 BT/WIFI V2. | N/A | N/A | N/A | |
| Coaxial Cable | SGS | N/A | SEM031-02 | 2017-07-13 | 2018-07-12 | |
| Attenuator | Weinschel Associates | WA41 | SEM021-09 | N/A | N/A | |
| Signal Generator | KEYSIGHT | N5173B | SEM006-05 | 2017-09-27 | 2018-09-26 | |
| Power Meter | Rohde & Schwarz | NRVS | SEM014-02 | 2017-09-27 | 2018-09-26 | |

| Power Spectrum Density | | | | | | |
|------------------------|----------------------|-------------------------|--------------|------------|--------------|--|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date | |
| DC Power Supply | ZhaoXin | RXN-305D | SEM011-02 | 2017-09-27 | 2018-09-26 | |
| Spectrum Analyzer | Rohde & Schwarz | FSP | SEM004-06 | 2017-09-27 | 2018-09-26 | |
| Measurement Software | JS Tonscend | JS1120-2 BT/WIFI V2. | N/A | N/A | N/A | |
| Coaxial Cable | SGS | N/A | SEM031-02 | 2017-07-13 | 2018-07-12 | |
| Attenuator | Weinschel Associates | WA41 | SEM021-09 | N/A | N/A | |
| Signal Generator | KEYSIGHT | N5173B | SEM006-05 | 2017-09-27 | 2018-09-26 | |
| Power Meter | Rohde & Schwarz | NRVS | SEM014-02 | 2017-09-27 | 2018-09-26 | |

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Report No.: SZEM180100075801

Page: 9 of 136

| Conducted Band Edges Measurement | | | | | | | |
|----------------------------------|----------------------|-------------------------|--------------|------------|--------------|--|--|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date | | |
| DC Power Supply | ZhaoXin | RXN-305D | SEM011-02 | 2017-09-27 | 2018-09-26 | | |
| Spectrum Analyzer | Rohde & Schwarz | FSP | SEM004-06 | 2017-09-27 | 2018-09-26 | | |
| Measurement Software | JS Tonscend | JS1120-2 BT/WIFI V2. | N/A | N/A | N/A | | |
| Coaxial Cable | SGS | N/A | SEM031-02 | 2017-07-13 | 2018-07-12 | | |
| Attenuator | Weinschel Associates | WA41 | SEM021-09 | N/A | N/A | | |
| Signal Generator | KEYSIGHT | N5173B | SEM006-05 | 2017-09-27 | 2018-09-26 | | |
| Power Meter | Rohde & Schwarz | NRVS | SEM014-02 | 2017-09-27 | 2018-09-26 | | |

| Conducted Spurious Emissions | | | | | | | |
|------------------------------|----------------------|-------------------------|--------------|------------|--------------|--|--|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date | | |
| DC Power Supply | ZhaoXin | RXN-305D | SEM011-02 | 2017-09-27 | 2018-09-26 | | |
| Spectrum Analyzer | Rohde & Schwarz | FSP | SEM004-06 | 2017-09-27 | 2018-09-26 | | |
| Measurement Software | JS Tonscend | JS1120-2 BT/WIFI V2. | N/A | N/A | N/A | | |
| Coaxial Cable | SGS | N/A | SEM031-02 | 2017-07-13 | 2018-07-12 | | |
| Attenuator | Weinschel Associates | WA41 | SEM021-09 | N/A | N/A | | |
| Signal Generator | KEYSIGHT | N5173B | SEM006-05 | 2017-09-27 | 2018-09-26 | | |
| Power Meter | Rohde & Schwarz | NRVS | SEM014-02 | 2017-09-27 | 2018-09-26 | | |

| Radiated Emissions whi | | | | | | | | |
|--|--|-----------------------|--------------|------------|--------------|--|--|--|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date | | | |
| 3m Semi-Anechoic Chamber | AUDIX | N/A | SEM001-02 | 2017-05-02 | 2020-05-01 | | | |
| Measurement Software | AUDIX | e3 V8.2014-6- 27 | N/A | N/A | N/A | | | |
| Coaxial Cable | SGS | N/A | SEM026-01 | 2017-07-13 | 2018-07-12 | | | |
| Spectrum Analyzer | Rohde & Schwarz | FSU43 | SEM004-08 | 2017-04-14 | 2018-04-13 | | | |
| BiConiLog Antenna (26- 3000MHz) | ETS-Lindgren | 3142C | SEM003-01 | 2017-06-27 | 2020-06-26 | | | |
| Horn Antenna (1- 18GHz) | Rohde & Schwarz | HF907 | SEM003-07 | 2015-06-14 | 2018-06-13 | | | |
| Horn Antenna(15GHz- 40GHz) | Schwarzbeck | BBHA 9170 | SEM003-15 | 2017-10-17 | 2020-10-16 | | | |
| Pre-amplifier (0.1- 1300MHz) | HP | 8447D | SEM005-02 | 2017-09-27 | 2018-09-26 | | | |
| Low Noise Amplifier(100MHz- 18GHz) | Black Diamond Series | BDLNA-0118- 352810 | SEM005-05 | 2017-09-27 | 2018-09-27 | | | |
| Pre-amplifier(18-26GHz) | Rohde & Schwarz | CH14-H052 | SEM005-17 | 2017-12-04 | 2018-12-03 | | | |
| Pre-amplifier(26GHz- 40GHz) | Compliance Directions Systems Inc. | PAP-2640-50 | SEM005-08 | 2017-04-14 | 2018-04-13 | | | |
| DC Power Supply | Zhao Xin | RXN-305D | SEM011-02 | 2017-09-27 | 2018-09-26 | | | |

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Report No.: SZEM180100075801

Page: 10 of 136

| Active Loop Antenna | ETS-Lindgren | 6502 | SEM003-08 | 2017-08-22 | 2020-08-21 |
|---------------------|--------------|------|-----------|------------|------------|
| Band filter | N/A | N/A | SEM023-01 | N/A | N/A |

| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
|--|--|-----------------------|--------------|------------|--------------|
| 3m Semi-Anechoic Chamber | AUDIX | N/A | SEM001-02 | 2017-05-02 | 2020-05-01 |
| Measurement Software | AUDIX | e3 V8.2014-6- 27 | N/A | N/A | N/A |
| Coaxial Cable | SGS | N/A | SEM026-01 | 2017-07-13 | 2018-07-12 |
| Spectrum Analyzer | Rohde & Schwarz | FSU43 | SEM004-08 | 2017-04-14 | 2018-04-13 |
| BiConiLog Antenna (26- 3000MHz) | ETS-Lindgren | 3142C | SEM003-01 | 2017-06-27 | 2020-06-26 |
| Horn Antenna (1- 18GHz) | Rohde & Schwarz | HF907 | SEM003-07 | 2015-06-14 | 2018-06-13 |
| Horn Antenna(15GHz- 40GHz) | Schwarzbeck | BBHA 9170 | SEM003-15 | 2017-10-17 | 2020-10-16 |
| Pre-amplifier (0.1- 1300MHz) | HP | 8447D | SEM005-02 | 2017-09-27 | 2018-09-26 |
| Low Noise Amplifier(100MHz- 18GHz) | Black Diamond Series | BDLNA-0118- 352810 | SEM005-05 | 2017-09-27 | 2018-09-27 |
| Pre-amplifier(18-26GHz) | Rohde & Schwarz | CH14-H052 | SEM005-17 | 2017-12-04 | 2018-12-03 |
| Pre-amplifier(26GHz- 40GHz) | Compliance Directions Systems Inc. | PAP-2640-50 | SEM005-08 | 2017-04-14 | 2018-04-13 |
| DC Power Supply | Zhao Xin | RXN-305D | SEM011-02 | 2017-09-27 | 2018-09-26 |
| Active Loop Antenna | ETS-Lindgren | 6502 | SEM003-08 | 2017-08-22 | 2020-08-21 |
| Band filter | N/A | N/A | SEM023-01 | N/A | N/A |

| | RE in Chamber | | | | | |
|------|-----------------------------------|----------------------|---------------------|---------------|---------------------------|----------------------------|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal. Date (yyyy-mm-dd) | Cal. Due date (yyyy-mm-dd) |
| 1 | 3m Semi-Anechoic Chamber | ETS-LINDGREN | N/A | SEM001-01 | 2017-08-05 | 2020-08-04 |
| 2 | MXE EMI Receiver (20Hz-8.4GHz) | Agilent Technologies | N9038A | SEM004-05 | 2017-09-27 | 2018-09-26 |
| 3 | BiConiLog Antenna (26-3000MHz) | ETS-LINDGREN | 3142C | SEM003-01 | 2017-06-27 | 2020-06-26 |
| 4 | Pre-amplifier (0.1-1300MHz) | Agilent Technologies | 8447D | SEM005-01 | 2017-04-14 | 2018-04-13 |
| 5 | Measurement Software | AUDIX | e3 V8.2014-6- 27 | N/A | N/A | N/A |
| 6 | Coaxial Cable | SGS | N/A | SEM025-01 | 2017-07-13 | 2018-07-12 |



Report No.: SZEM180100075801

Page: 11 of 136

| General used equipmen Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
|------------------------------------|---|----------|--------------|------------|--------------|
| Humidity/ Temperature Indicator | Shanghai Meteorological Industry Factory | ZJ1-2B | SEM002-03 | 2017-09-29 | 2018-09-28 |
| Humidity/ Temperature Indicator | Shanghai Meteorological Industry Factory | ZJ1-2B | SEM002-04 | 2017-09-29 | 2018-09-28 |
| Humidity/ Temperature Indicator | Mingle | N/A | SEM002-08 | 2017-09-29 | 2018-09-28 |
| Barometer | Changchun Meteorological Industry Factory | DYM3 | SEM002-01 | 2017-04-18 | 2018-04-17 |



Report No.: SZEM180100075801

Page: 12 of 136

6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

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

6.1.2 Conclusion

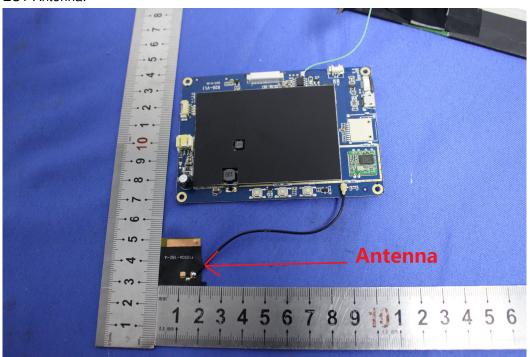
Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an 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 3.58dBi.



Report No.: SZEM180100075801

Page: 13 of 136

7 Radio Spectrum Matter Test Results

7.1 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:

| Francisco (MU) | 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 | 50 | | | | | |
| *Decreases with the logarithm of the frequency. | | | | | | |



Report No.: SZEM180100075801

Page: 14 of 136

7.1.1 E.U.T. Operation

Operating Environment:

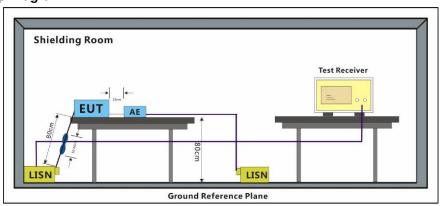
Temperature: 18.6 °C Humidity: 46.6 % RH Atmospheric Pressure: 1015 mbar

Test mode a: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).

Only the data of worst case is recorded in the report.

7.1.2 Test Setup Diagram



7.1.3 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 $50 \text{ohm}/50 \mu\text{H} + 5 \text{ohm}$ 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.

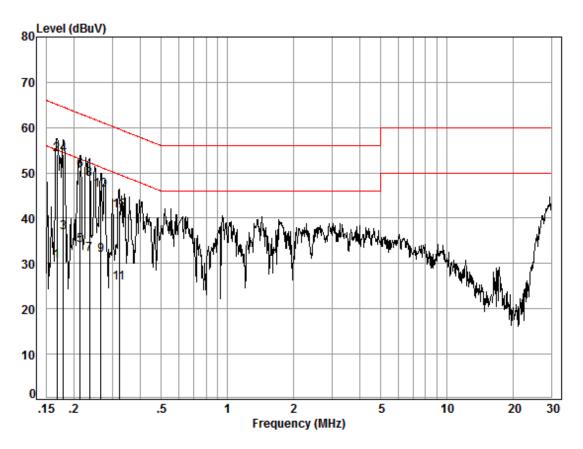
Remark: LISN=Read Level+ Cable Loss+ LISN Factor



Report No.: SZEM180100075801

Page: 15 of 136

Mode:a; Line:Live Line



Site : Shielding Room

Condition: Line Job No. : 00758CR

Test mode: a

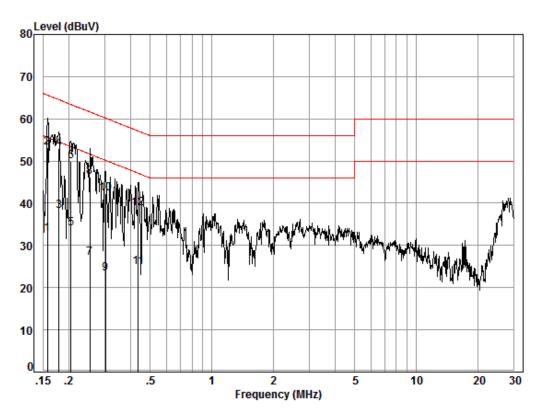
| | Freq | Cable Loss | LISN Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|----|------|---------------|----------------|---------------|-------|---------------|---------------|---------|
| | MHz | dB | dB | dBuV | dBuV | dBuV | dB | |
| 1 | 0.17 | 0.02 | 9.52 | 20.94 | 30.48 | 55.08 | -24.60 | Average |
| 2 | 0.17 | 0.02 | 9.52 | 44.61 | 54.15 | 65.08 | -10.93 | QP |
| 3 | 0.18 | 0.02 | 9.51 | 27.27 | 36.80 | 54.55 | -17.75 | Average |
| 4 | 0.18 | 0.02 | 9.51 | 44.63 | 54.16 | 64.55 | -10.39 | QP |
| 5 | 0.21 | 0.02 | 9.50 | 24.43 | 33.95 | 53.05 | -19.10 | Average |
| 6 | 0.21 | 0.02 | 9.50 | 40.99 | 50.51 | 63.05 | -12.54 | QP |
| 7 | 0.24 | 0.01 | 9.51 | 22.63 | 32.15 | 52.26 | -20.11 | Average |
| 8 | 0.24 | 0.01 | 9.51 | 39.11 | 48.63 | 62.26 | -13.63 | QP |
| 9 | 0.27 | 0.01 | 9.51 | 22.27 | 31.79 | 51.25 | -19.46 | Average |
| 10 | 0.27 | 0.01 | 9.51 | 36.76 | 46.28 | 61.25 | -14.97 | QP |
| 11 | 0.32 | 0.01 | 9.51 | 16.26 | 25.78 | 49.66 | -23.88 | Average |
| 12 | 0.32 | 0.01 | 9.51 | 32.10 | 41.62 | 59.66 | -18.04 | QP |



Report No.: SZEM180100075801

Page: 16 of 136

Mode:a; Line:Neutral Line



Site : Shielding Room

Condition: Neutral Job No. : 00758CR

Test mode: a

| | Freq | Cable Loss | LISN Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|----|------|---------------|----------------|---------------|-------|---------------|---------------|---------|
| | MHz | dB | dB | dBuV | dBuV | dBuV | dB | |
| 1 | 0.16 | 0.02 | 9.58 | 23.07 | 32.67 | 55.60 | -22.93 | Average |
| 2 | 0.16 | 0.02 | 9.58 | 43.67 | 53.27 | 65.60 | -12.33 | QP |
| 3 | 0.18 | 0.02 | 9.58 | 28.65 | 38.25 | 54.55 | -16.30 | Average |
| 4 | 0.18 | 0.02 | 9.58 | 43.40 | 53.00 | 64.55 | -11.55 | QP |
| 5 | 0.21 | 0.02 | 9.57 | 24.35 | 33.94 | 53.40 | -19.46 | Average |
| 6 | 0.21 | 0.02 | 9.57 | 40.29 | 49.88 | 63.40 | -13.52 | QP |
| 7 | 0.25 | 0.01 | 9.58 | 17.50 | 27.09 | 51.64 | -24.55 | Average |
| 8 | 0.25 | 0.01 | 9.58 | 36.70 | 46.29 | 61.64 | -15.35 | QP |
| 9 | 0.30 | 0.01 | 9.58 | 13.65 | 23.24 | 50.19 | -26.95 | Average |
| 10 | 0.30 | 0.01 | 9.58 | 32.74 | 42.33 | 60.19 | -17.86 | QP |
| 11 | 0.44 | 0.01 | 9.59 | 15.23 | 24.83 | 47.11 | -22.28 | Average |
| 12 | 0.44 | 0.01 | 9.59 | 29.09 | 38.69 | 57.11 | -18.42 | QP |



Report No.: SZEM180100075801

Page: 17 of 136

7.2 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2)
Test Method: ANSI C63.10 (2013) Section 11.8.1

Limit: ≥500 kHz

7.2.1 E.U.T. Operation

Operating Environment:

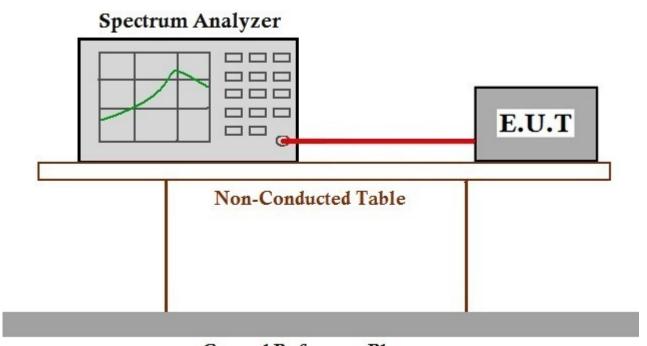
Temperature: 20 °C Humidity: 36.5 % RH Atmospheric Pressure: 1015 mbar

Test mode a: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).

Only the data of worst case is recorded in the report.

7.2.2 Test Setup Diagram



Ground Reference Plane

7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



Report No.: SZEM180100075801

Page: 18 of 136

7.3 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)
Test Method: ANSI C63.10 (2013) Section 7.8.5

Limit:

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



Report No.: SZEM180100075801

Page: 19 of 136

7.3.1 E.U.T. Operation

Operating Environment:

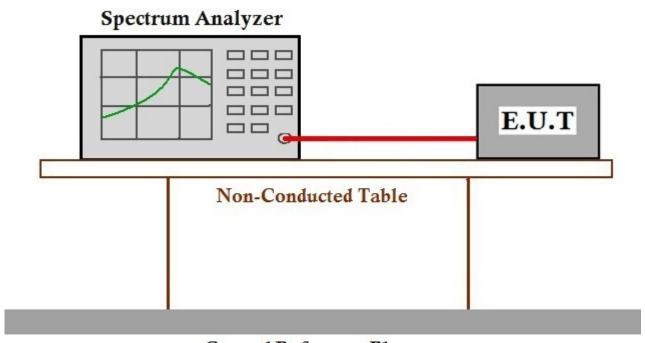
Temperature: 20 °C Humidity: 36.5 % RH Atmospheric Pressure: 1015 mbar

Test mode a: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).

Only the data of worst case is recorded in the report.

7.3.2 Test Setup Diagram



Ground Reference Plane

7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



Report No.: SZEM180100075801

Page: 20 of 136

7.4 Power Spectrum Density

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

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

transmission

7.4.1 E.U.T. Operation

Operating Environment:

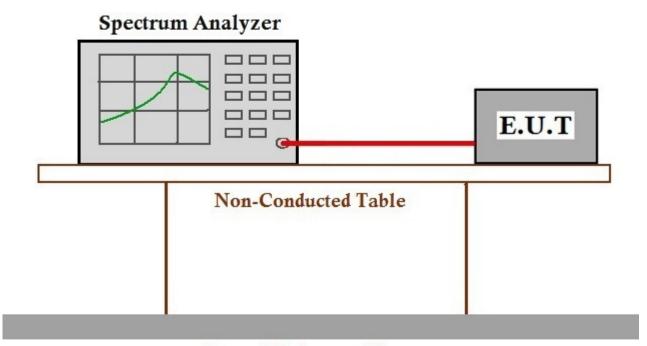
Temperature: 20 °C Humidity: 36.5 % RH Atmospheric Pressure: 1015 mbar

Test mode a: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).

Only the data of worst case is recorded in the report.

7.4.2 Test Setup Diagram



Ground Reference Plane

7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



Report No.: SZEM180100075801

Page: 21 of 136

7.5 Conducted Band Edges Measurement

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

Limit: In any 100 kHz bandwidth outside the frequency band in which the spread

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

radiated emissions which fall in the restricted bands, as defined in

§15.205(a), must also comply with the radiated emission limits specified in

§15.209(a) (see §15.205(c)



Report No.: SZEM180100075801

Page: 22 of 136

7.5.1 E.U.T. Operation

Operating Environment:

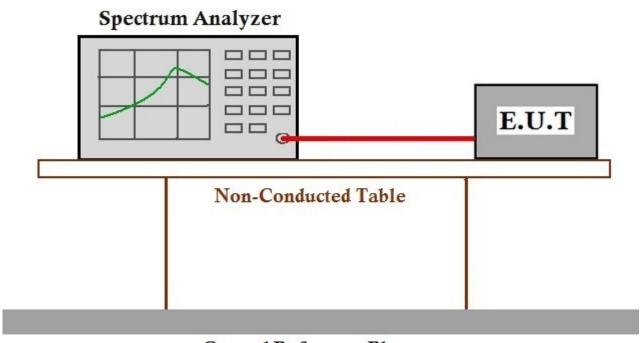
Temperature: 20 °C Humidity: 36.5 % RH Atmospheric Pressure: 1015 mbar

Test mode a: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).

Only the data of worst case is recorded in the report.

7.5.2 Test Setup Diagram



Ground Reference Plane

7.5.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



Report No.: SZEM180100075801

Page: 23 of 136

7.6 Conducted Spurious Emissions

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

Limit: In any 100 kHz bandwidth outside the frequency band in which the spread

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

radiated emissions which fall in the restricted bands, as defined in

§15.205(a), must also comply with the radiated emission limits specified in

§15.209(a) (see §15.205(c)



Report No.: SZEM180100075801

Page: 24 of 136

7.6.1 E.U.T. Operation

Operating Environment:

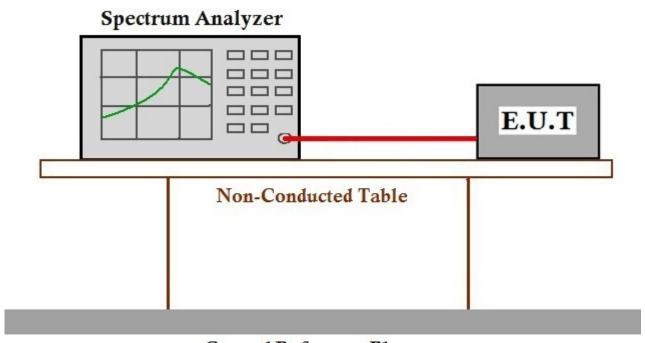
Temperature: 20 °C Humidity: 36.5 % RH Atmospheric Pressure: 1015 mbar

Test mode a: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).

Only the data of worst case is recorded in the report.

7.6.2 Test Setup Diagram



Ground Reference Plane

7.6.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



Report No.: SZEM180100075801

Page: 25 of 136

7.7 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.247(d)

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.



Report No.: SZEM180100075801

Page: 26 of 136

7.7.1 E.U.T. Operation

Operating Environment:

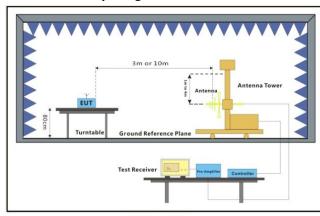
Temperature: 17.7 °C Humidity: 36.1 % RH Atmospheric Pressure: 1015 mbar

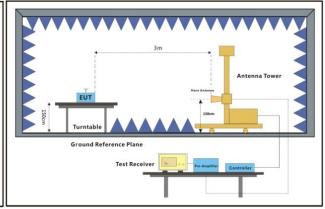
Test mode a:TX mode_Keep the EUT in continuously transmitting mode with all modulation

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).

Only the data of worst case is recorded in the report.

7.7.2 Test Setup Diagram





30MHz-1GHz Above 1GHz



Report No.: SZEM180100075801

Page: 27 of 136

7.7.3 Measurement Procedure and Data

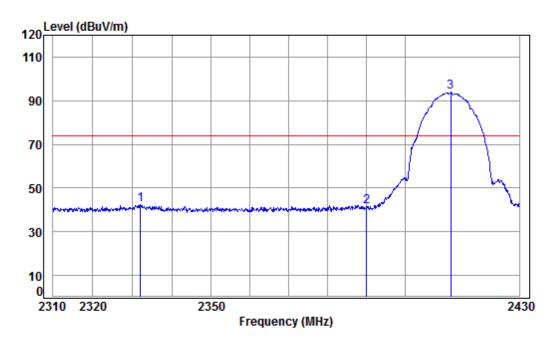
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.
- Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



Report No.: SZEM180100075801

Page: 28 of 136

Mode:a; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00758CR

Mode : 2412 Band edge

: 2.4G WiFi 11B

: 40

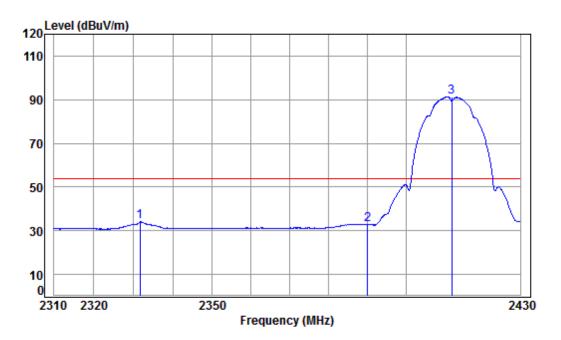
| | Freq | | | | | | Limit Line | | Remark |
|----------------|----------------------------------|------|-------|-------|-------|--------|---------------|--------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 2 3 pp | 2332.099 2390.000 2412.000 | 5.47 | 29.08 | 41.87 | 49.03 | 41.71 | | -32.29 | peak |



Report No.: SZEM180100075801

Page: 29 of 136

Mode:a; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00758CR

1

3

Mode : 2412 Band edge

: 2.4G WiFi 11B

: 40

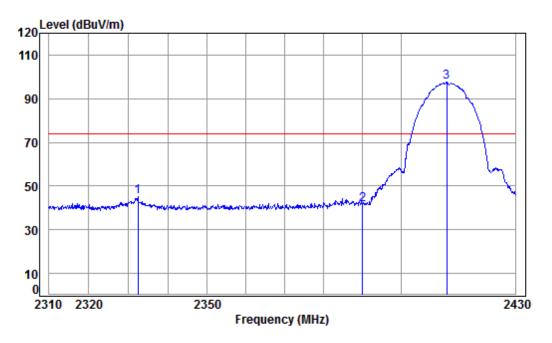
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | | |
|----|----------|-------|--------|--------|-------|--------|--------|--------|---------|---|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark | |
| | | | | | | | | | | _ |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | | |
| | | | | | | | | | | |
| | 2331.744 | 5.40 | 28.90 | 41.85 | 41.57 | 34.02 | 54.00 | -19.98 | Average | |
| | 2390.000 | 5.47 | 29.08 | 41.87 | 40.16 | 32.84 | 54.00 | -21.16 | Average | |
| pp | 2412.000 | 5.50 | 29.14 | 41.88 | 98.53 | 91.29 | 54.00 | 37.29 | Average | |



Report No.: SZEM180100075801

Page: 30 of 136

Mode:a; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL Job No : 00758CR

Mode : 2412 Band edge

: 2.4G WiFi 11B

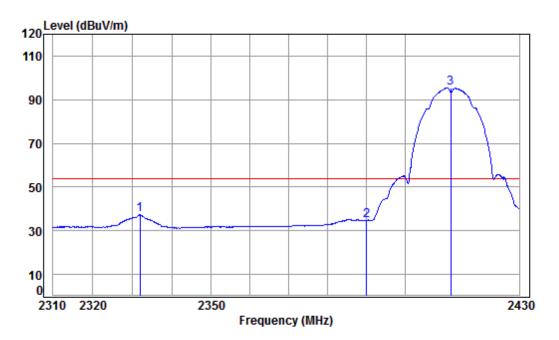
| | Freq | | | | | | Limit Line | | Remark |
|----------------|----------------------------------|------|-------|-------|-------|--------|---------------|--------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 2 3 pp | 2332.453 2390.000 2412.000 | 5.47 | 29.08 | 41.87 | 48.68 | 41.36 | | -32.64 | Peak |



Report No.: SZEM180100075801

31 of 136 Page:

Mode:a; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL Job No : 00758CR

Mode : 2412 Band edge

: 2.4G WiFi 11B

: 40

1

2

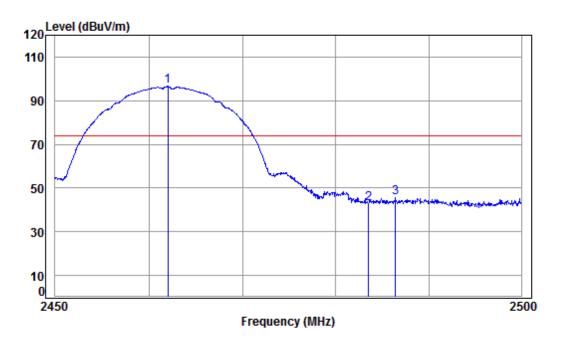
Ant Preamp Limit Cable Read 0ver Loss Factor Factor Level Level Line Limit Remark Freq MHz dBuV dBuV/m dBuV/m dΒ dB/m dB dB 2331.980 28.90 41.85 44.89 37.34 54.00 -16.66 Average 5.40 2390.000 5.47 29.08 41.87 42.02 34.70 54.00 -19.30 Average 3 pp 2412.000 5.50 29.14 41.88 102.70 95.46 54.00 41.46 Average



Report No.: SZEM180100075801

Page: 32 of 136

Mode:a; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00758CR

Mode : 2462 Band edge

: 2.4G WiFi 11B

: 40

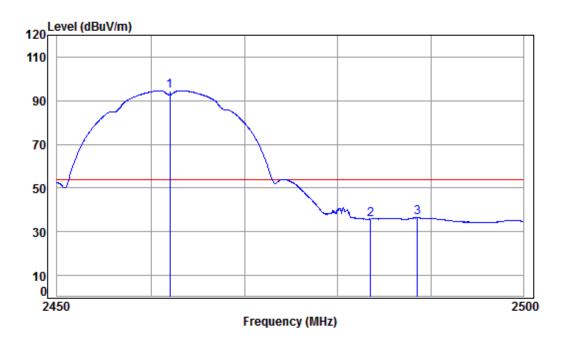
| | Freq | | | | | Level | | | Remark |
|------|----------|------|-------|-------|--------|--------|--------|--------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 pp | 2462.000 | 5.57 | 29.29 | 41.90 | 103.66 | 96.62 | 74.00 | 22.62 | peak |
| 2 | 2483.500 | 5.60 | 29.35 | 41.91 | 49.88 | 42.92 | 74.00 | -31.08 | peak |
| 3 | 2486.400 | 5.60 | 29.36 | 41.91 | 52.37 | 45.42 | 74.00 | -28.58 | peak |



Report No.: SZEM180100075801

Page: 33 of 136

Mode:a; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00758CR

1 2 3

Mode : 2462 Band edge

: 2.4G WiFi 11B

: 40

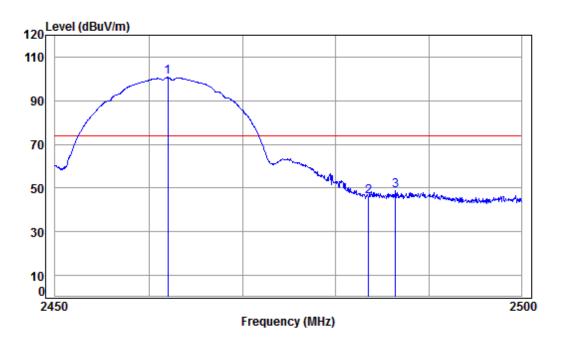
| | Freq | | | | | | Limit Line | | Remark | |
|----|----------------------|----|------|----|------|--------|---------------|----|--------|---|
| - | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | | _ |
| pp | 2462.000 | | | | | | | | _ | |
| | 2483.500 2488.561 | | | | | | | | _ | |



Report No.: SZEM180100075801

Page: 34 of 136

Mode:a; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL Job No : 00758CR

Mode : 2462 Band edge

: 2.4G WiFi 11B

: 40

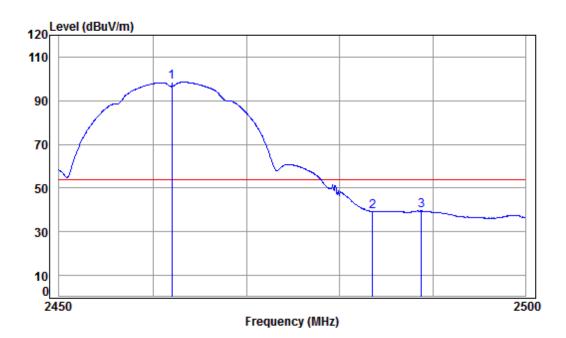
| | Freq | | | | | Level | | | Remark |
|------|----------|------|-------|-------|--------|--------|--------|--------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 pp | 2462.000 | 5.57 | 29.29 | 41.90 | 107.82 | 100.78 | 74.00 | 26.78 | Peak |
| 2 | 2483.500 | 5.60 | 29.35 | 41.91 | 53.23 | 46.27 | 74.00 | -27.73 | Peak |
| 3 | 2486.400 | 5.60 | 29.36 | 41.91 | 55.82 | 48.87 | 74.00 | -25.13 | Peak |



Report No.: SZEM180100075801

Page: 35 of 136

Mode:a; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00758CR

Mode : 2462 Band edge

: 2.4G WiFi 11B

: 40

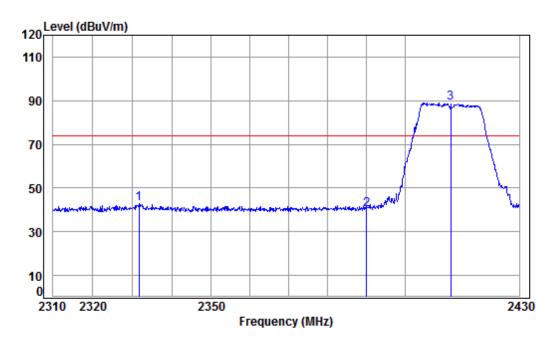
| | Freq | | | | | | Limit Line | | Remark | |
|-----|------------|------|-------|-------|--------|--------|---------------|--------|---------|---|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | | _ |
| 1 p | p 2462.000 | 5.57 | 29.29 | 41.90 | 105.49 | 98.45 | 54.00 | 44.45 | Average | |
| 2 | 2483.500 | 5.60 | 29.35 | 41.91 | 46.27 | 39.31 | 54.00 | -14.69 | Average | |
| 3 | 2488.762 | 5.61 | 29.37 | 41.91 | 46.56 | 39.63 | 54.00 | -14.37 | Average | |



Report No.: SZEM180100075801

Page: 36 of 136

Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00758CR

Mode : 2412 Band edge

: 2.4G WiFi 11G

: 40

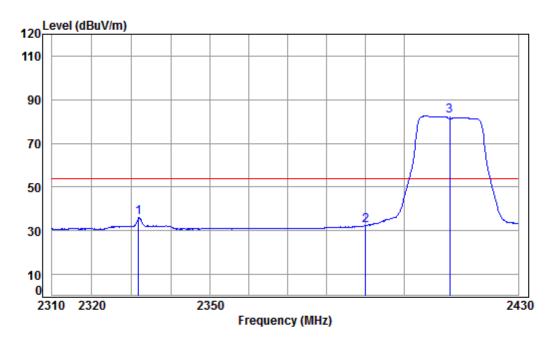
| | Freq | | | Preamp Factor | | | | | Remark |
|----------------|----------------------------------|------|-------|------------------|-------|--------|--------|--------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 2 3 pp | 2331.744 2390.000 2412.000 | 5.47 | 29.08 | | 47.58 | 40.26 | 74.00 | -33.74 | peak |



Report No.: SZEM180100075801

Page: 37 of 136

Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00758CR

1 2

Mode : 2412 Band edge

: 2.4G WiFi 11G

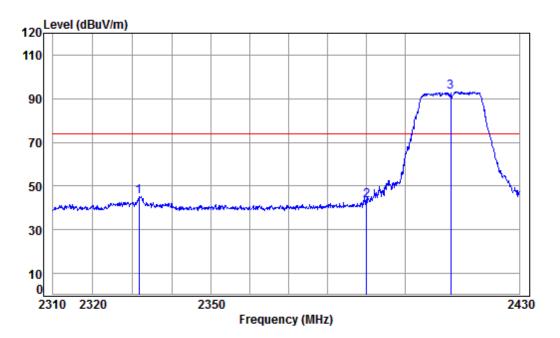
| Freq | | | Preamp Factor | | | | | Remark |
|-----------|----|------|------------------|------|--------|--------|----|--------------------|
| MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1.862 | | | | | | | | Average |
| | | | | | | | | Average Average |



Report No.: SZEM180100075801

Page: 38 of 136

Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL Job No : 00758CR

Mode : 2412 Band edge

: 2.4G WiFi 11G

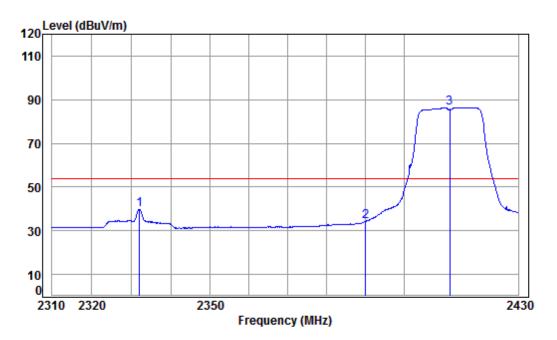
| | Freq | | | | | | Limit Line | | Remark |
|----------------|----------------------------------|------|-------|-------|-------|--------|---------------|--------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 2 3 pp | 2331.626 2390.000 2412.000 | 5.47 | 29.08 | 41.87 | 50.76 | 43.44 | | -30.56 | Peak |



Report No.: SZEM180100075801

Page: 39 of 136

Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL Job No : 00758CR

Mode : 2412 Band edge

: 2.4G WiFi 11G

: 40

1 2

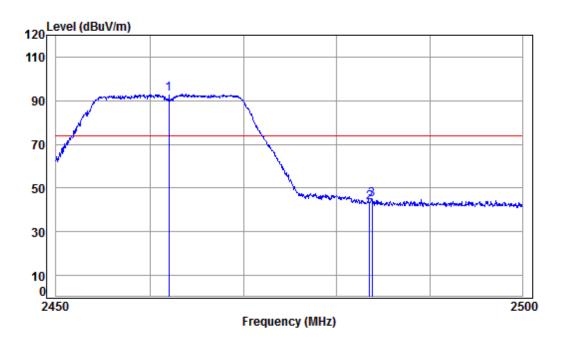
| | Freq | | | Preamp Factor | | | | | Remark |
|----|----------------------|------|-------|------------------|-------|--------|--------|-------|--------------------|
| - | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | 2332.099 2390.000 | | | | | | | | Average Average |
| pp | 2412.000 | 5.50 | 29.14 | 41.88 | 93.52 | 86.28 | 54.00 | 32.28 | Average |



Report No.: SZEM180100075801

Page: 40 of 136

Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00758CR

Mode : 2462 Band edge

: 2.4G WiFi 11G

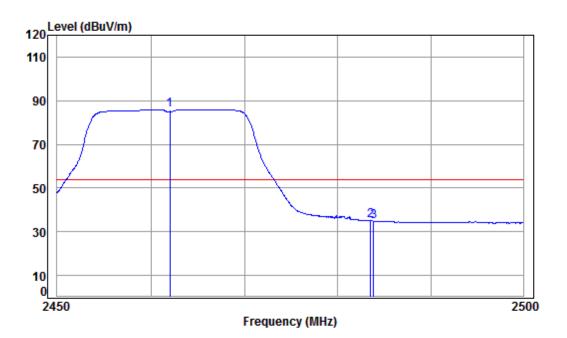
| | Freq | | | Preamp Factor | | | | | Remark |
|------|----------|------|-------|------------------|-------|--------|--------|--------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 pp | 2462.000 | 5.57 | 29.29 | 41.90 | 99.93 | 92.89 | 74.00 | 18.89 | peak |
| 2 | 2483.500 | 5.60 | 29.35 | 41.91 | 50.36 | 43.40 | 74.00 | -30.60 | peak |
| 3 | 2483.790 | 5.60 | 29.35 | 41.91 | 51.82 | 44.86 | 74.00 | -29.14 | peak |



Report No.: SZEM180100075801

Page: 41 of 136

Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00758CR

Mode : 2462 Band edge

: 2.4G WiFi 11G

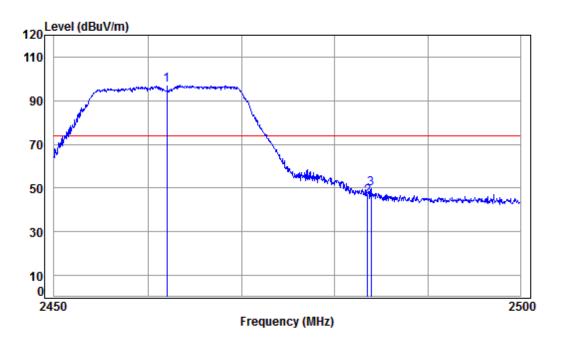
| | Freq | | | Preamp Factor | | | | | |
|------|----------|------|-------|------------------|-------|--------|--------|--------|---------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 pp | 2462.000 | 5.57 | 29.29 | 41.90 | 93.03 | 85.99 | 54.00 | 31.99 | Average |
| 2 | 2483.500 | 5.60 | 29.35 | 41.91 | 41.91 | 34.95 | 54.00 | -19.05 | Average |
| 3 | 2483.840 | 5.60 | 29.35 | 41.91 | 41.81 | 34.85 | 54.00 | -19.15 | Average |



Report No.: SZEM180100075801

Page: 42 of 136

Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL Job No : 00758CR

Mode : 2462 Band edge

: 2.4G WiFi 11G

: 40

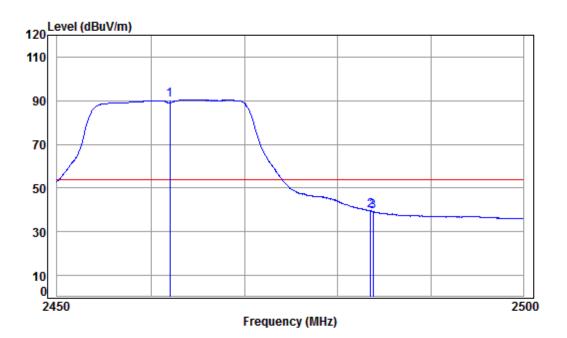
| | Freq | | | | | Level | | | Remark |
|------|----------|------|-------|-------|--------|--------|--------|--------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 pp | 2462.000 | 5.57 | 29.29 | 41.90 | 104.01 | 96.97 | 74.00 | 22.97 | Peak |
| 2 | 2483.500 | 5.60 | 29.35 | 41.91 | 52.95 | 45.99 | 74.00 | -28.01 | Peak |
| 3 | 2483.890 | 5.60 | 29.35 | 41.91 | 56.59 | 49.63 | 74.00 | -24.37 | Peak |



Report No.: SZEM180100075801

Page: 43 of 136

Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00758CR Mode : 2462 Band edge

: 2.4G WiFi 11G

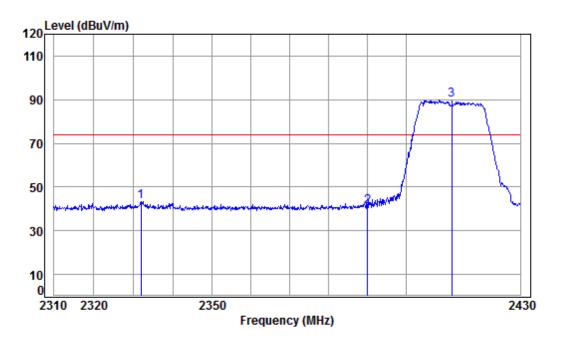
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
|------|----------|-------|--------|--------|-------|--------|--------|--------|---------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 pp | 2462.000 | 5.57 | 29.29 | 41.90 | 97.33 | 90.29 | 54.00 | 36.29 | Average |
| 2 | 2483.500 | 5.60 | 29.35 | 41.91 | 46.46 | 39.50 | 54.00 | -14.50 | Average |
| 3 | 2483.790 | 5.60 | 29.35 | 41.91 | 46.16 | 39.20 | 54.00 | -14.80 | Average |



Report No.: SZEM180100075801

Page: 44 of 136

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00758CR

Mode : 2412 Band edge

: 2.4G WiFi 11N20

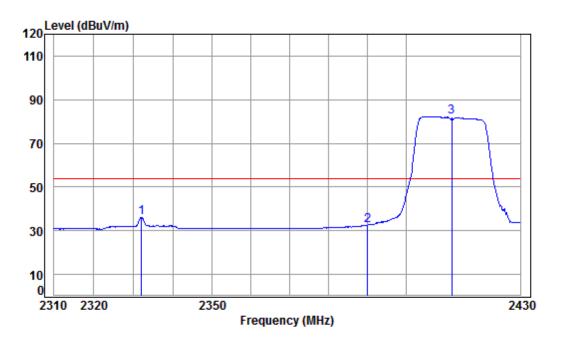
| | Freq | | | Preamp Factor | | | | | |
|----------------|----------------------------------|------|-------|------------------|-------|--------|--------|--------|------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 2 3 pp | 2331.980 2390.000 2412.000 | 5.47 | 29.08 | | 48.45 | 41.13 | 74.00 | -32.87 | peak |



Report No.: SZEM180100075801

Page: 45 of 136

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00758CR

1

3

Mode : 2412 Band edge

: 2.4G WiFi 11N20

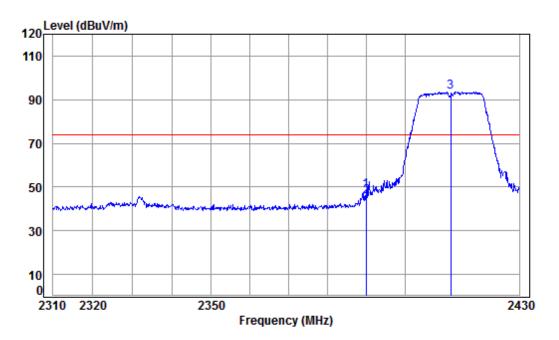
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | | |
|---|----------|-------|--------|--------|-------|--------|--------|--------|---------|---|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark | |
| | | | | | | | | | | _ |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | | |
| | | | | | | | | | | |
| | 2332.099 | 5.40 | 28.90 | 41.85 | 43.70 | 36.15 | 54.00 | -17.85 | Average | |
| | 2390.000 | 5.47 | 29.08 | 41.87 | 39.87 | 32.55 | 54.00 | -21.45 | Average | |
| p | 2412.000 | 5.50 | 29.14 | 41.88 | 89.46 | 82.22 | 54.00 | 28.22 | Average | |



Report No.: SZEM180100075801

Page: 46 of 136

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL Job No : 00758CR

Mode : 2412 Band edge

: 2.4G WiFi 11N20

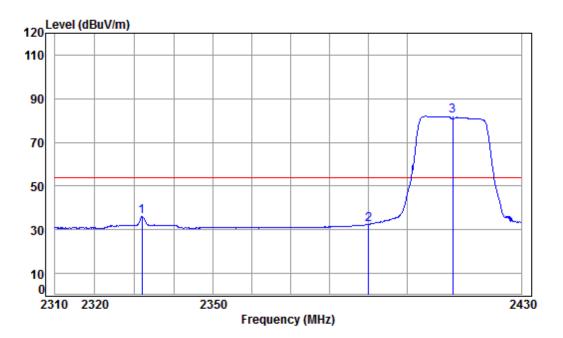
| | Freq | | | | | | Limit Line | | Remark |
|----------------|----------------------------------|------|-------|-------|-------|--------|---------------|--------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 2 3 pp | 2389.847 2390.000 2412.000 | 5.47 | 29.08 | 41.87 | 53.04 | 45.72 | 74.00 | -28.28 | peak |



Report No.: SZEM180100075801

Page: 47 of 136

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00758CR

1

3

Mode : 2412 Band edge

: 2.4G WiFi 11N20

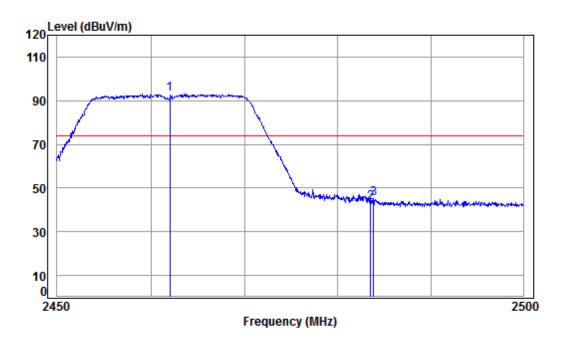
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | | |
|---|-------------|-------|--------|--------|-------|--------|--------|--------|---------|--|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark | |
| | | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | | |
| | | | | | | | | | | |
| L | 2331.980 | 5.40 | 28.90 | 41.85 | 43.58 | 36.03 | 54.00 | -17.97 | Average | |
| 2 | 2390.000 | 5.47 | 29.08 | 41.87 | 39.55 | 32.23 | 54.00 | -21.77 | Average | |
| 3 | pp 2412.000 | 5.50 | 29.14 | 41.88 | 89.19 | 81.95 | 54.00 | 27.95 | Average | |



Report No.: SZEM180100075801

Page: 48 of 136

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00758CR

1

3

Mode : 2462 Band edge

: 2.4G WiFi 11N20

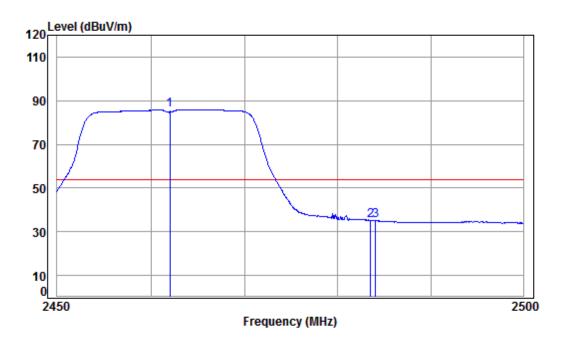
| | Freq | | Ant Factor | | | | | | Remark |
|----|----------|------|---------------|-------|--------|--------|--------|--------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| рр | 2462.000 | 5.57 | 29.29 | 41.90 | 100.13 | 93.09 | 74.00 | 19.09 | peak |
| | 2483.500 | 5.60 | 29.35 | 41.91 | 50.20 | 43.24 | 74.00 | -30.76 | peak |
| | 2483.840 | 5.60 | 29.35 | 41.91 | 52.21 | 45.25 | 74.00 | -28.75 | peak |



Report No.: SZEM180100075801

Page: 49 of 136

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00758CR

1 2 3

Mode : 2462 Band edge

: 2.4G WiFi 11N20

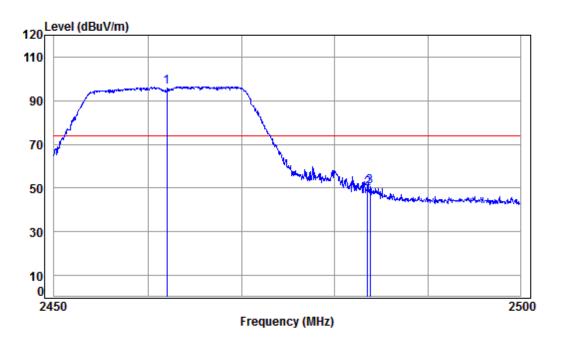
| | Freq | | | Preamp Factor | | | | | Remark | |
|----|----------------------|----|------|------------------|------|--------|--------|----|--------------------|---|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | | _ |
| рр | 2462.000 | | | | | | | | _ | |
| | 2483.500 2484.041 | | | | | | | | Average Average | |



Report No.: SZEM180100075801

Page: 50 of 136

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL Job No : 00758CR

Mode : 2462 Band edge

: 2.4G WiFi 11N20

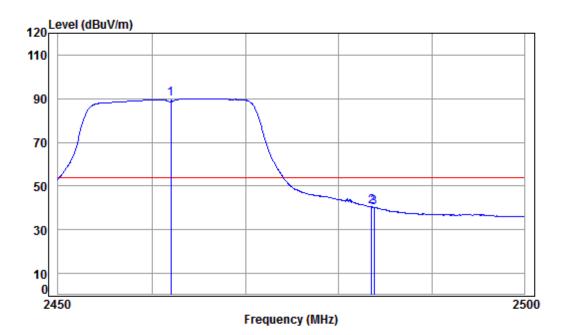
| . 40 | | | | | | | | |
|---------------|-------|--------|--------|--------|--------|--------|--------|--------|
| | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| - | | | | | | | | |
| MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | |
| 1 pp 2462.000 | 5 57 | 29 29 | 41 90 | 103 46 | 96 42 | 74 00 | 22 42 | Peak |
| 1 pp 2402.000 | 3.37 | 27.27 | 41.50 | 103.40 | 30.42 | 74.00 | 22.72 | I Cuik |
| 2 2483.500 | 5.60 | 29.35 | 41.91 | 56.77 | 49.81 | 74.00 | -24.19 | Peak |
| 3 2483.790 | 5.60 | 29.35 | 41.91 | 57.65 | 50.69 | 74.00 | -23.31 | Peak |



Report No.: SZEM180100075801

Page: 51 of 136

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00758CR

Mode : 2462 Band edge

: 2.4G WiFi 11N20

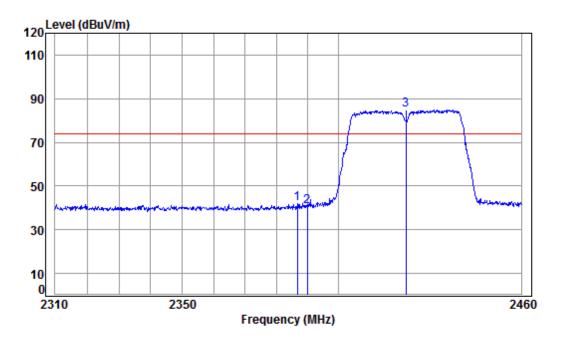
| Freq | | | Preamp Factor | | | | | Remark |
|--------------------------|----|------|------------------|------|--------|--------|----|--------|
| MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 pp 2462.000 | | | | | | | | _ |
| 2 2483.500 3 2483.790 | | | | | | | | _ |



Report No.: SZEM180100075801

Page: 52 of 136

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00758CR

1

3

Mode : 2422 Band edge

: 2.4G WiFi 11N40

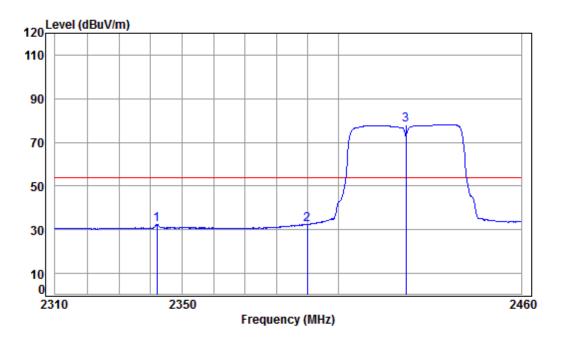
| | Freq | | | Preamp Factor | | | | | Remark | |
|---|------------|------|-------|------------------|-------|--------|--------|--------|--------|---|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | | - |
| | 2386.822 | 5.47 | 29.07 | 41.87 | 49.53 | 42.20 | 74.00 | -31.80 | peak | |
| 2 | 2390.000 | 5.47 | 29.08 | 41.87 | 47.77 | 40.45 | 74.00 | -33.55 | peak | |
| р | p 2422.000 | 5.52 | 29.17 | 41.89 | 92.24 | 85.04 | 74.00 | 11.04 | peak | |



Report No.: SZEM180100075801

Page: 53 of 136

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00758CR

1 2

Mode : 2422 Band edge

: 2.4G WiFi 11N40

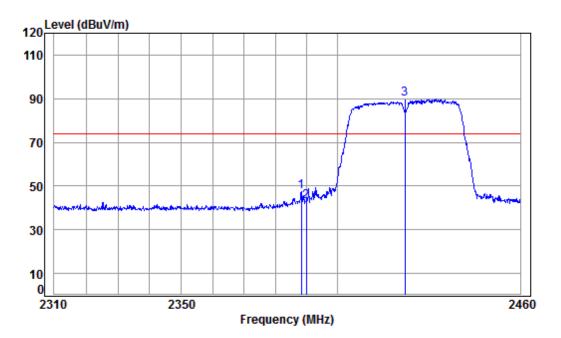
| Freq | | | Preamp Factor | | | | | Remark | |
|----------------------|----|------|------------------|------|--------|--------|----|---------|---|
| MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | | _ |
| 2342.048 2390.000 | | | | | | | | _ | |
| pp 2422,000 | | | | | | | | Average | |



Report No.: SZEM180100075801

54 of 136 Page:

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL Job No : 00758CR

Mode : 2422 Band edge

: 2.4G WiFi 11N40

: 40

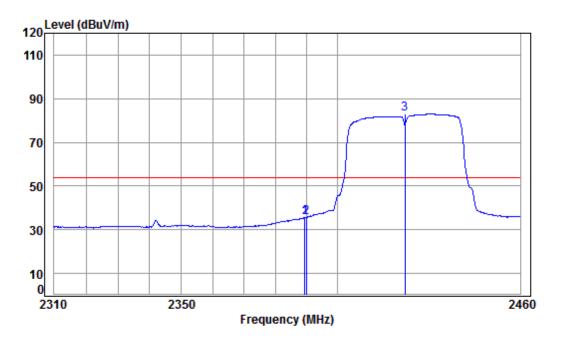
| | Freq | | | Preamp Factor | | | | | Remark |
|------|----------|------|-------|------------------|-------|--------|--------|--------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 2388.324 | 5.47 | 29.07 | 41.87 | 54.81 | 47.48 | 74.00 | -26.52 | Peak |
| 2 | 2390.000 | 5.47 | 29.08 | 41.87 | 50.24 | 42.92 | 74.00 | -31.08 | Peak |
| 3 рр | 2422.000 | 5.52 | 29.17 | 41.89 | 97.02 | 89.82 | 74.00 | 15.82 | Peak |



Report No.: SZEM180100075801

55 of 136 Page:

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL Job No : 00758CR

Mode : 2422 Band edge

: 2.4G WiFi 11N40

: 40

1

2

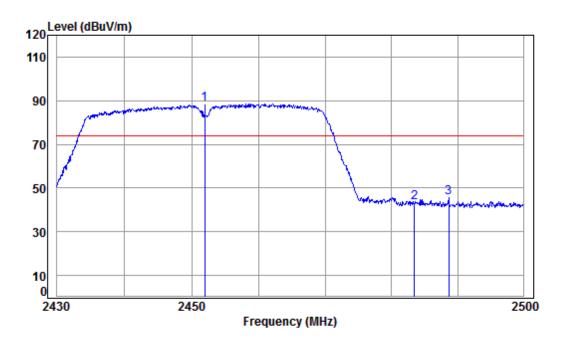
Ant Preamp Limit Cable Read 0ver Loss Factor Factor Level Level Line Limit Remark Freq MHz dBuV dBuV/m dBuV/m dΒ dB/m dB dB 2389.526 29.08 41.87 42.78 35.46 54.00 -18.54 Average 5.47 2390.000 5.47 29.08 41.87 42.94 35.62 54.00 -18.38 Average 3 pp 2422.000 5.52 29.17 41.89 90.10 82.90 54.00 28.90 Average



Report No.: SZEM180100075801

Page: 56 of 136

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00758CR

Mode : 2452 Band edge

: 2.4G WiFi 11N40

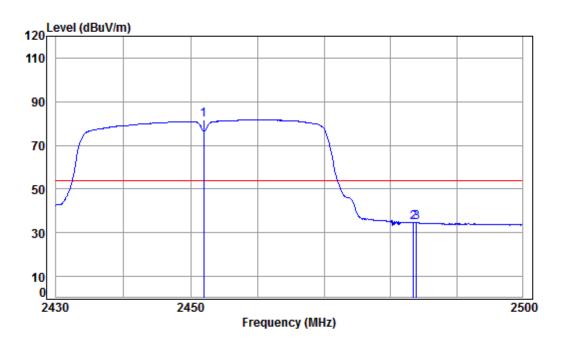
| | Freq | | | Preamp Factor | | | | | |
|------|----------|------|-------|------------------|-------|--------|--------|--------|------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 pp | 2452.000 | 5.56 | 29.26 | 41.90 | 95.57 | 88.49 | 74.00 | 14.49 | peak |
| 2 | 2483.500 | 5.60 | 29.35 | 41.91 | 50.09 | 43.13 | 74.00 | -30.87 | peak |
| 3 | 2488.666 | 5.61 | 29.37 | 41.91 | 52.46 | 45.53 | 74.00 | -28.47 | peak |



Report No.: SZEM180100075801

Page: 57 of 136

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00758CR

1 2 3

Mode : 2452 Band edge

: 2.4G WiFi 11N40

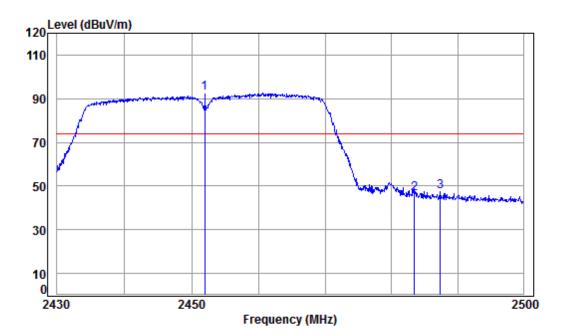
| Freq | | | Preamp Factor | | | | | Remark | |
|--------------|------|-------|------------------|-------|--------|--------|--------|---------|---|
| MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | | - |
| 2452.000 | | | | | | | | _ | |
| 2483.500 | 5.60 | 29.35 | 41.91 | 41.59 | 34.63 | 54.00 | -19.37 | Average | |
| 2483.935 | 5.60 | 29.35 | 41.91 | 41.51 | 34.55 | 54.00 | -19.45 | Average | |



Report No.: SZEM180100075801

Page: 58 of 136

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00758CR

Mode : 2452 Band edge

: 2.4G WiFi 11N40

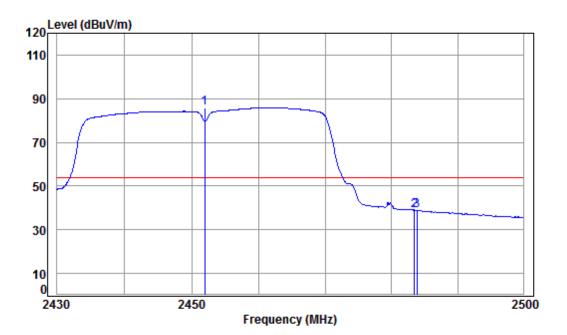
| | Freq | | | Preamp Factor | | | | | |
|------|----------|------|-------|------------------|-------|--------|--------|--------|------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 pp | 2452.000 | 5.56 | 29.26 | 41.90 | 99.55 | 92.47 | 74.00 | 18.47 | Peak |
| 2 | 2483.500 | 5.60 | 29.35 | 41.91 | 53.28 | 46.32 | 74.00 | -27.68 | Peak |
| 3 | 2487.394 | 5.60 | 29.36 | 41.91 | 54.23 | 47.28 | 74.00 | -26.72 | Peak |



Report No.: SZEM180100075801

Page: 59 of 136

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00758CR

Mode : 2452 Band edge

: 2.4G WiFi 11N40

| | 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 pp 2452.000 | 5.56 | 29.26 | 41.90 | 92.87 | 85.79 | 54.00 | 31.79 | Average |
| 2 2483.500 | 5.60 | 29.35 | 41.91 | 45.95 | 38.99 | 54.00 | -15.01 | Average |
| 3 2483.865 | 5.60 | 29.35 | 41.91 | 45.84 | 38.88 | 54.00 | -15.12 | Average |



Report No.: SZEM180100075801

Page: 60 of 136

7.8 Radiated Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.247(d)
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.



Report No.: SZEM180100075801

Page: 61 of 136

7.8.1 E.U.T. Operation

Operating Environment:

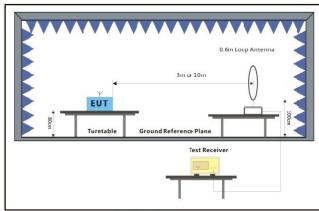
Temperature: 19.4 °C Humidity: 40.6 % RH Atmospheric Pressure: 1015 mbar

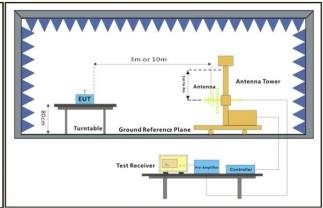
Test mode a:TX mode_Keep the EUT in continuously transmitting mode with all modulation

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).

Only the data of worst case is recorded in the report.

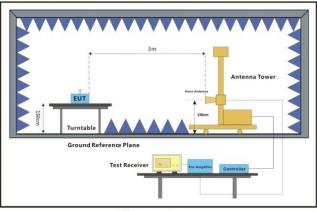
7.8.2 Test Setup Diagram





Below 30MHz

30MHz-1GHz



Above 1GHz



Report No.: SZEM180100075801

Page: 62 of 136

7.8.3 Measurement Procedure and Data

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

Remark:

- 1) 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.

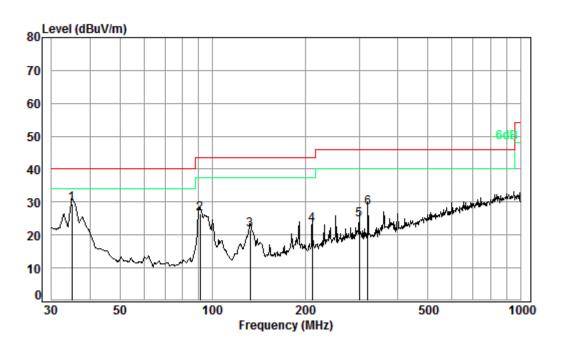


Report No.: SZEM180100075801

Page: 63 of 136

Radiated emission below 1GHz

Mode:a; Polarization:Horizontal



Condition: 3m HORIZONTAL

Job No. : 00758CR

Test mode: a

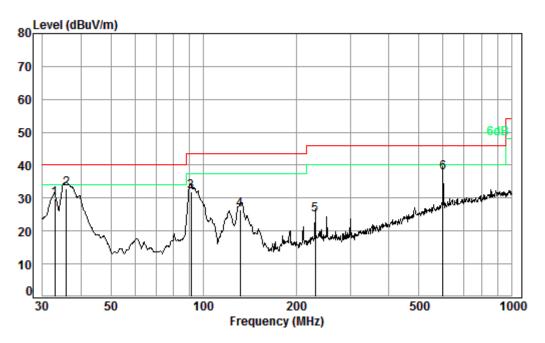
| | | Cable | Ant | Preamp | Read | | Limit | 0ver |
|------|--------|-------|--------|--------|-------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit |
| | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| | | | | | | | | |
| 1 pp | 34.88 | 0.60 | 19.88 | 27.65 | 36.77 | 29.60 | 40.00 | -10.40 |
| 2 | 91.17 | 1.11 | 13.21 | 27.51 | 39.61 | 26.42 | 43.50 | -17.08 |
| 3 | 132.69 | 1.28 | 13.49 | 27.52 | 34.30 | 21.55 | 43.50 | -21.95 |
| 4 | 210.79 | 1.46 | 16.89 | 27.53 | 32.32 | 23.14 | 43.50 | -20.36 |
| 5 | 299.32 | 1.90 | 19.57 | 27.54 | 30.77 | 24.70 | 46.00 | -21.30 |
| 6 | 319.94 | 1.97 | 20.23 | 27.58 | 33.61 | 28.23 | 46.00 | -17.77 |



Report No.: SZEM180100075801

Page: 64 of 136

Mode:a; Polarization:Vertical



Condition: 3m VERTICAL Job No. : 00758CR

Test mode: a

| | | Cable | Ant | Preamp | Read | | Limit | 0ver |
|------|--------|-------|--------|--------|-------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit |
| _ | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| | | | | | | | | |
| 1 | 32.86 | 0.60 | 20.92 | 27.66 | 36.07 | 29.93 | 40.00 | -10.07 |
| 2 pp | 35.87 | 0.60 | 19.39 | 27.65 | 40.59 | 32.93 | 40.00 | -7.07 |
| 3 | 91.17 | 1.11 | 13.21 | 27.51 | 45.27 | 32.08 | 43.50 | -11.42 |
| 4 | 131.30 | 1.28 | 13.45 | 27.52 | 39.11 | 26.32 | 43.50 | -17.18 |
| 5 | 230.91 | 1.58 | 18.09 | 27.53 | 32.76 | 24.90 | 46.00 | -21.10 |
| 6 | 599.32 | 2.70 | 26.59 | 27.70 | 36.07 | 37.66 | 46.00 | -8.34 |

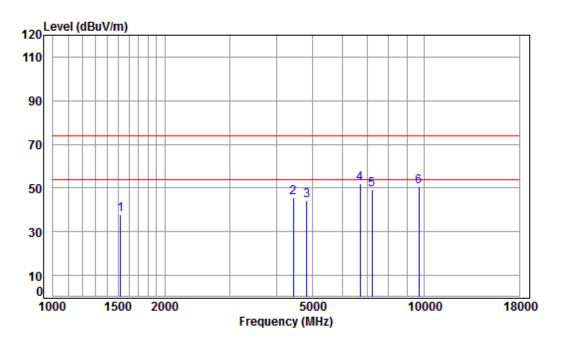


Report No.: SZEM180100075801

Page: 65 of 136

Transmitter emission above 1GHz

Mode:a; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00758CR

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

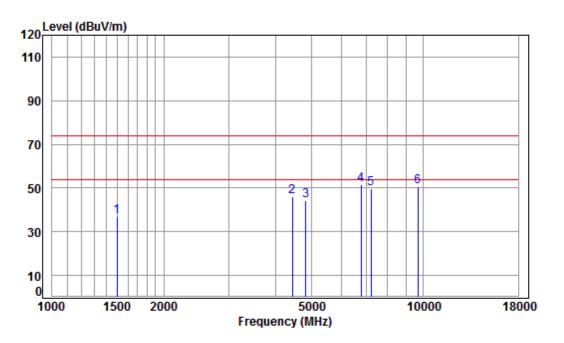
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
|-----|------------|-------|--------|--------|-------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 | 1520.598 | 5.45 | 25.89 | 41.42 | 47.93 | 37.85 | 74.00 | -36.15 | peak |
| 2 | 4430.628 | 7.48 | 33.60 | 42.41 | 46.98 | 45.65 | 74.00 | -28.35 | peak |
| 3 | 4824.000 | 7.91 | 34.19 | 42.47 | 44.46 | 44.09 | 74.00 | -29.91 | peak |
| 4 p | p 6717.762 | 10.91 | 35.72 | 41.05 | 46.22 | 51.80 | 74.00 | -22.20 | peak |
| 5 | 7236.000 | 10.07 | 36.40 | 40.69 | 43.43 | 49.21 | 74.00 | -24.79 | peak |
| 6 | 9648.000 | 10.77 | 37.53 | 37.68 | 40.18 | 50.80 | 74.00 | -23.20 | peak |



Report No.: SZEM180100075801

Page: 66 of 136

Mode:a; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 00758CR

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

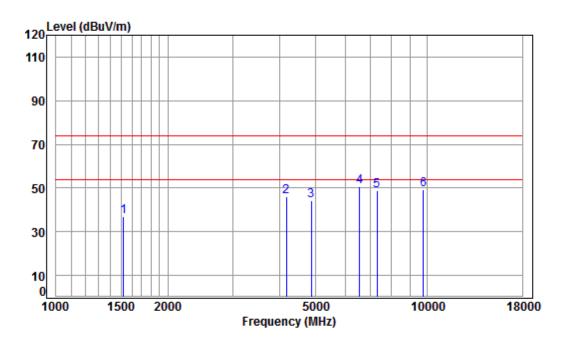
| ,,, | | . 2.4 | T MATIT | 110 | | | | | | |
|-----|----|----------|---------|--------|--------|-------|--------|--------|--------|--------|
| | | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| | | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | _ | | | | | | | | | |
| | | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | | |
| 1 | | 1498.781 | 5.48 | 25.80 | 41.41 | 47.14 | 37.01 | 74.00 | -36.99 | peak |
| 2 | | 4430.628 | 7.48 | 33.60 | 42.41 | 47.27 | 45.94 | 74.00 | -28.06 | peak |
| 3 | | 4824.000 | 7.91 | 34.19 | 42.47 | 44.76 | 44.39 | 74.00 | -29.61 | peak |
| 4 | pp | 6795.879 | 10.69 | 35.94 | 41.00 | 45.98 | 51.61 | 74.00 | -22.39 | peak |
| 5 | | 7236.000 | 10.07 | 36.40 | 40.69 | 43.90 | 49.68 | 74.00 | -24.32 | peak |
| 6 | | 9648.000 | 10.77 | 37.53 | 37.68 | 40.02 | 50.64 | 74.00 | -23.36 | peak |
| | | | | | | | | | | |



Report No.: SZEM180100075801

Page: 67 of 136

Mode:a; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 00758CR

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

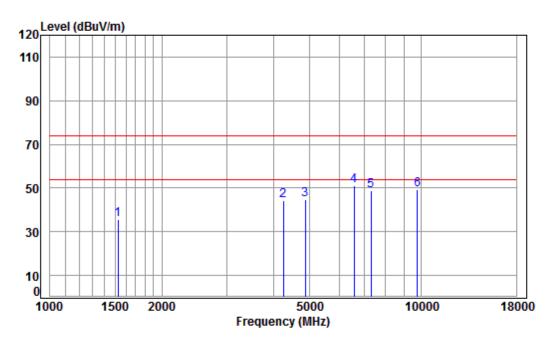
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
|-----|------------|-------|--------|--------|-------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 | 1520.598 | 5.45 | 25.89 | 41.42 | 47.11 | 37.03 | 74.00 | -36.97 | peak |
| 2 | 4169.698 | 7.18 | 33.60 | 42.36 | 47.77 | 46.19 | 74.00 | -27.81 | peak |
| 3 | 4874.000 | 7.96 | 34.28 | 42.48 | 44.33 | 44.09 | 74.00 | -29.91 | peak |
| 4 p | p 6564.209 | 11.35 | 35.29 | 41.17 | 45.18 | 50.65 | 74.00 | -23.35 | peak |
| 5 | 7311.000 | 10.05 | 36.37 | 40.64 | 42.89 | 48.67 | 74.00 | -25.33 | peak |
| 6 | 9748.000 | 10.82 | 37.55 | 37.54 | 38.30 | 49.13 | 74.00 | -24.87 | peak |



Report No.: SZEM180100075801

Page: 68 of 136

Mode:a; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 00758CR

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

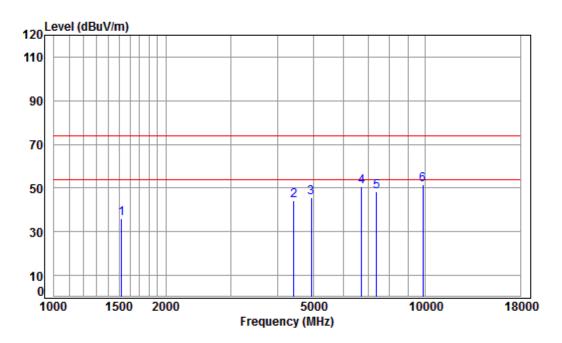
| oτe | e | : 2.40 | a MTFT | 118 | | | | | | | |
|-----|----|----------|--------|--------|--------|-------|--------|--------|--------|--------|---|
| | | | Cable | Ant | Preamp | Read | | Limit | 0ver | | |
| | | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark | |
| | - | | | | | | | | | | _ |
| | | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | | |
| | | 4505 000 | - 4- | 25 24 | 44 40 | 45 63 | 25 57 | 74.00 | 20.42 | | |
| 1 | | 1525.000 | 5.45 | 25.91 | 41.42 | 45.63 | 35.5/ | /4.00 | -38.43 | peak | |
| 2 | | 4254.921 | 7.28 | 33.60 | 42.37 | 45.76 | 44.27 | 74.00 | -29.73 | peak | |
| 3 | | 4874.000 | 7.96 | 34.28 | 42.48 | 45.08 | 44.84 | 74.00 | -29.16 | peak | |
| 4 | pp | 6583.209 | 11.30 | 35.34 | 41.15 | 45.56 | 51.05 | 74.00 | -22.95 | peak | |
| 5 | | 7311.000 | 10.05 | 36.37 | 40.64 | 43.26 | 49.04 | 74.00 | -24.96 | peak | |
| 6 | | 9748.000 | 10.82 | 37.55 | 37.54 | 38.51 | 49.34 | 74.00 | -24.66 | peak | |



Report No.: SZEM180100075801

Page: 69 of 136

Mode:a; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00758CR

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

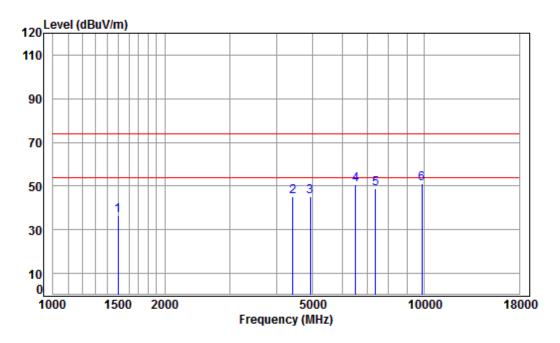
Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark Freq MHz dBuV dBuV/m dBuV/m dB/m dB dB dB 1 1520.598 5.45 25.89 41.42 46.20 36.12 74.00 -37.88 peak 2 4417.841 7.47 33.60 42.40 45.37 44.04 74.00 -29.96 peak 3 4924.000 8.01 34.37 42.49 45.67 45.56 74.00 -28.44 peak 4 50.63 74.00 -23.37 peak 10.86 35.78 41.04 45.03 6737.207 5 7386.000 10.03 36.34 40.59 42.60 48.38 74.00 -25.62 peak 6 pp 9848.000 10.87 37.57 37.41 40.39 51.42 74.00 -22.58 peak



Report No.: SZEM180100075801

Page: 70 of 136

Mode:a; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00758CR

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

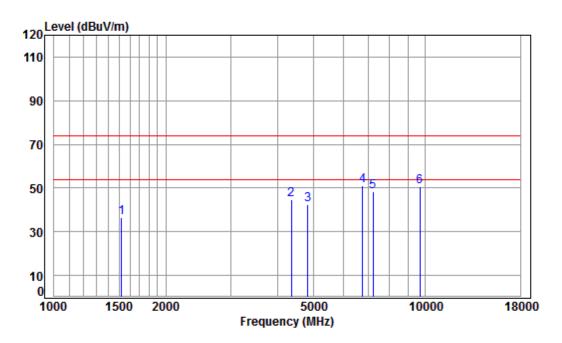
| OCC | . 2.4 | G MILI | 110 | | | | | | |
|------|----------|--------|--------|--------|-------|--------|--------|--------|--------|
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 | 1498.781 | 5.48 | 25.80 | 41.41 | 46.57 | 36.44 | 74.00 | -37.56 | peak |
| 2 | 4417.841 | 7.47 | 33.60 | 42.40 | 46.69 | 45.36 | 74.00 | -28.64 | peak |
| 3 | 4924.000 | 8.01 | 34.37 | 42.49 | 45.09 | 44.98 | 74.00 | -29.02 | peak |
| 4 | 6526.373 | 11.46 | 35.18 | 41.20 | 45.40 | 50.84 | 74.00 | -23.16 | peak |
| 5 | 7386.000 | 10.03 | 36.34 | 40.59 | 43.04 | 48.82 | 74.00 | -25.18 | peak |
| 6 pp | 9848.000 | 10.87 | 37.57 | 37.41 | 40.26 | 51.29 | 74.00 | -22.71 | peak |
| | | | | | | | | | |



Report No.: SZEM180100075801

Page: 71 of 136

Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00758CR

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

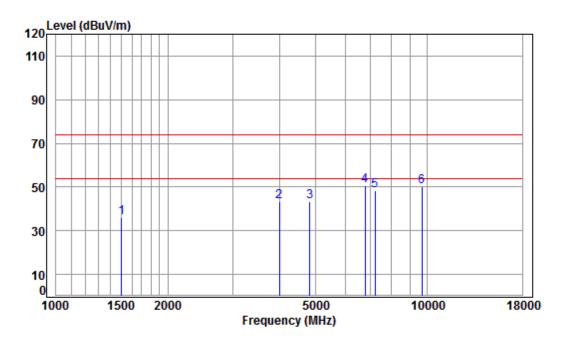
| 0 | . 2.7 | G 1111 I | 110 | | | | | | |
|------|----------|----------|--------|--------|-------|--------|--------|--------|--------|
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 | 1520.598 | 5.45 | 25.89 | 41.42 | 46.73 | 36.65 | 74.00 | -37.35 | peak |
| 2 | 4354.454 | 7.40 | 33.60 | 42.39 | 46.25 | 44.86 | 74.00 | -29.14 | peak |
| 3 | 4824.000 | 7.91 | 34.19 | 42.47 | 42.95 | 42.58 | 74.00 | -31.42 | peak |
| 4 pp | 6776.265 | 10.75 | 35.89 | 41.01 | 45.63 | 51.26 | 74.00 | -22.74 | peak |
| 5 | 7236.000 | 10.07 | 36.40 | 40.69 | 42.49 | 48.27 | 74.00 | -25.73 | peak |
| 6 | 9648.000 | 10.77 | 37.53 | 37.68 | 39.84 | 50.46 | 74.00 | -23.54 | peak |



Report No.: SZEM180100075801

Page: 72 of 136

Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 00758CR

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

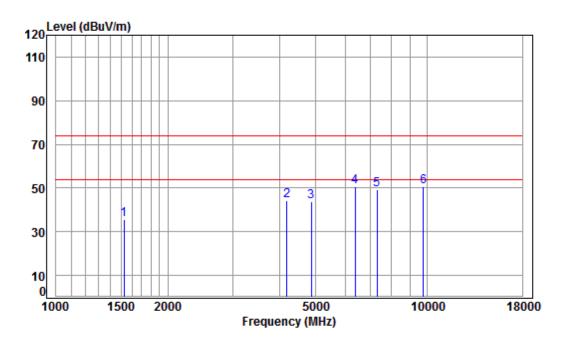
| ot (| e | : 2.40 | a MTFT | 11G | | | | | | |
|------|----|----------|--------|--------|--------|-------|--------|--------|--------|--------|
| | | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| | | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | | |
| | | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | | |
| 1 | | 1503.119 | 5.48 | 25.81 | 41.41 | 46.17 | 36.05 | 74.00 | -37.95 | peak |
| 2 | | 3992.781 | 6.97 | 33.58 | 42.32 | 45.33 | 43.56 | 74.00 | -30.44 | peak |
| 3 | | 4824.000 | 7.91 | 34.19 | 42.47 | 43.78 | 43.41 | 74.00 | -30.59 | peak |
| 4 | pp | 6795.879 | 10.69 | 35.94 | 41.00 | 45.14 | 50.77 | 74.00 | -23.23 | peak |
| 5 | | 7236.000 | 10.07 | 36.40 | 40.69 | 42.65 | 48.43 | 74.00 | -25.57 | peak |
| 6 | | 9648.000 | 10.77 | 37.53 | 37.68 | 39.69 | 50.31 | 74.00 | -23.69 | peak |



Report No.: SZEM180100075801

Page: 73 of 136

Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 00758CR

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

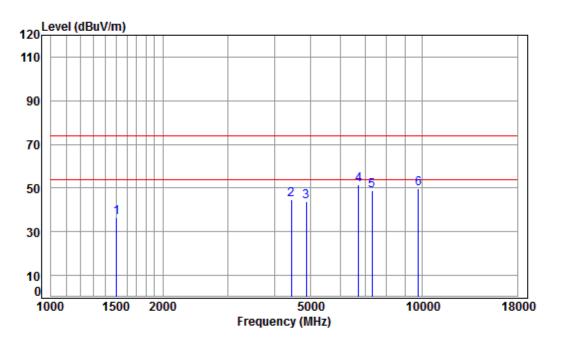
| ote | : 2.4 | G MTFT | 116 | | | | | | |
|------|----------|--------|--------|--------|-------|--------|--------|--------|--------|
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 | 1525.000 | 5.45 | 25.91 | 41.42 | 45.74 | 35.68 | 74.00 | -38.32 | peak |
| 2 | 4181.768 | 7.20 | 33.60 | 42.36 | 45.60 | 44.04 | 74.00 | -29.96 | peak |
| 3 | 4874.000 | 7.96 | 34.28 | 42.48 | 44.00 | 43.76 | 74.00 | -30.24 | peak |
| 4 pp | 6377.195 | 11.31 | 35.00 | 41.31 | 45.70 | 50.70 | 74.00 | -23.30 | peak |
| 5 | 7311.000 | 10.05 | 36.37 | 40.64 | 43.38 | 49.16 | 74.00 | -24.84 | peak |
| 6 | 9748.000 | 10.82 | 37.55 | 37.54 | 39.74 | 50.57 | 74.00 | -23.43 | peak |



Report No.: SZEM180100075801

Page: 74 of 136

Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 00758CR

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

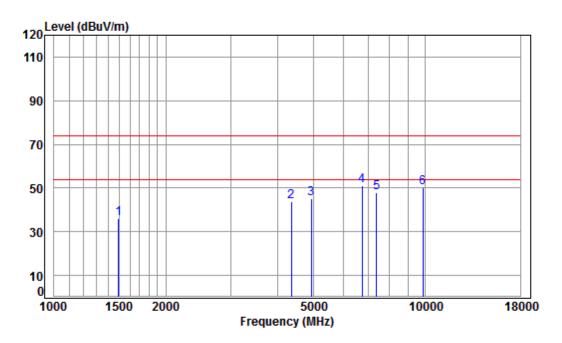
| ot (| e | : 2.40 | a MTFT | 11G | | | | | | | |
|------|----|----------|--------|--------|--------|-------|--------|--------|--------|--------|--|
| | | | Cable | Ant | Preamp | Read | | Limit | 0ver | | |
| | | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark | |
| | - | | | | | | | | | | |
| | | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | | |
| 4 | | 4502 440 | F 40 | 25 04 | 44 44 | 46 53 | 26 44 | 74.00 | 27.50 | | |
| 1 | | 1503.119 | 5.48 | 25.81 | 41.41 | 46.53 | 36.41 | 74.00 | -37.59 | реак | |
| 2 | | 4430.628 | 7.48 | 33.60 | 42.41 | 46.17 | 44.84 | 74.00 | -29.16 | peak | |
| 3 | | 4874.000 | 7.96 | 34.28 | 42.48 | 44.23 | 43.99 | 74.00 | -30.01 | peak | |
| 4 | pp | 6737.207 | 10.86 | 35.78 | 41.04 | 45.89 | 51.49 | 74.00 | -22.51 | peak | |
| 5 | | 7311.000 | 10.05 | 36.37 | 40.64 | 43.12 | 48.90 | 74.00 | -25.10 | peak | |
| 6 | | 9748.000 | 10.82 | 37.55 | 37.54 | 39.13 | 49.96 | 74.00 | -24.04 | peak | |



Report No.: SZEM180100075801

Page: 75 of 136

Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00758CR

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

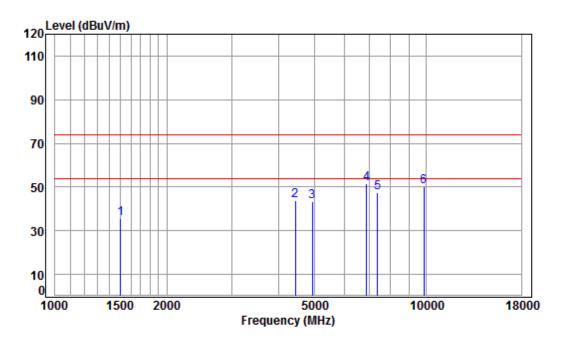
| ote | : 2.4 | G MILI | 110 | | | | | | |
|------|----------|--------|--------|--------|-------|--------|--------|--------|--------|
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | 4404 455 | - 46 | 05.70 | 44 40 | 46.43 | 25.07 | 74.00 | 20.02 | |
| 1 | 1494.455 | 5.46 | 25./8 | 41.40 | 46.13 | 35.97 | 74.00 | -38.03 | peak |
| 2 | 4354.454 | 7.40 | 33.60 | 42.39 | 45.21 | 43.82 | 74.00 | -30.18 | peak |
| 3 | 4924.000 | 8.01 | 34.37 | 42.49 | 45.26 | 45.15 | 74.00 | -28.85 | peak |
| 4 pp | 6756.708 | 10.80 | 35.83 | 41.03 | 45.65 | 51.25 | 74.00 | -22.75 | peak |
| 5 | 7386.000 | 10.03 | 36.34 | 40.59 | 42.02 | 47.80 | 74.00 | -26.20 | peak |
| 6 | 9848 000 | 10.87 | 37.57 | 37.41 | 39.21 | 50.24 | 74.00 | -23.76 | neak |



Report No.: SZEM180100075801

Page: 76 of 136

Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00758CR

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

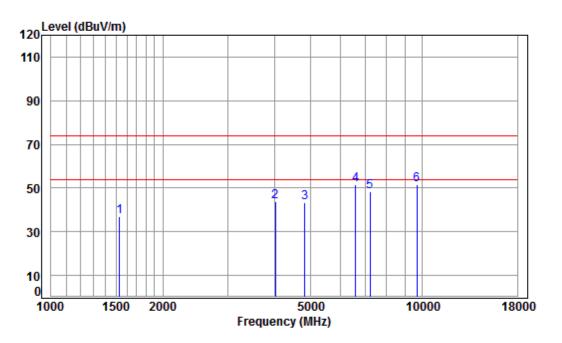
| ,,, | _ | . 2.4 | a MILI | 110 | | | | | | |
|-----|----|----------|--------|--------|--------|-------|--------|--------|--------|--------|
| | | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| | | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | | |
| | | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | | |
| 1 | | 1503.119 | 5.48 | 25.81 | 41.41 | 45.68 | 35.56 | 74.00 | -38.44 | peak |
| 2 | | 4430.628 | 7.48 | 33.60 | 42.41 | 45.35 | 44.02 | 74.00 | -29.98 | peak |
| 3 | | 4924.000 | 8.01 | 34.37 | 42.49 | 43.49 | 43.38 | 74.00 | -30.62 | peak |
| 4 | pp | 6894.806 | 10.42 | 36.21 | 40.93 | 45.76 | 51.46 | 74.00 | -22.54 | peak |
| 5 | | 7386.000 | 10.03 | 36.34 | 40.59 | 41.72 | 47.50 | 74.00 | -26.50 | peak |
| 6 | | 9848.000 | 10.87 | 37.57 | 37.41 | 39.04 | 50.07 | 74.00 | -23.93 | peak |
| | | | | | | | | | | |



Report No.: SZEM180100075801

Page: 77 of 136

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00758CR

Mode : 2412 TX RSE

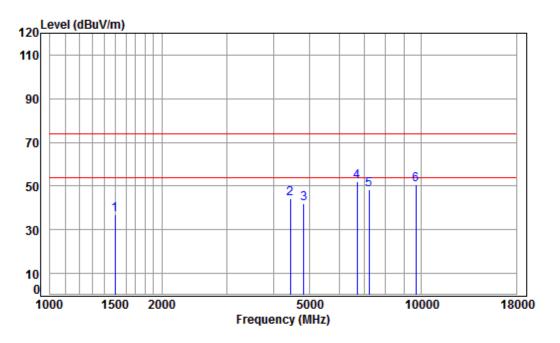
| | _ | | | | | | | | | |
|---|----|----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| | | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | _ | | | | | | | | | |
| | | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | | |
| 1 | | 1529.414 | 5.44 | 25.94 | 41.43 | 46.85 | 36.80 | 74.00 | -37.20 | peak |
| 2 | | 4015.929 | 7.00 | 33.60 | 42.33 | 45.41 | 43.68 | 74.00 | -30.32 | peak |
| 3 | | 4824.000 | 7.91 | 34.19 | 42.47 | 43.87 | 43.50 | 74.00 | -30.50 | peak |
| 4 | pp | 6602.265 | 11.24 | 35.39 | 41.14 | 46.28 | 51.77 | 74.00 | -22.23 | peak |
| 5 | | 7236.000 | 10.07 | 36.40 | 40.69 | 42.44 | 48.22 | 74.00 | -25.78 | peak |
| 6 | | 9648.000 | 10.77 | 37.53 | 37.68 | 41.11 | 51.73 | 74.00 | -22.27 | peak |



Report No.: SZEM180100075801

Page: 78 of 136

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 00758CR

Mode : 2412 TX RSE

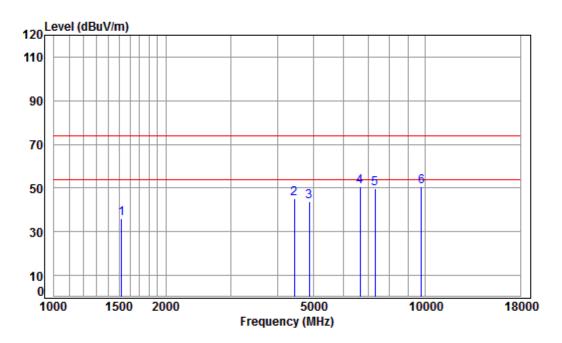
| ote | : 2.4 | G MTFT | 11N 2 | 0 | | | | | |
|------|----------|--------|--------|--------|-------|--------|--------|--------|--------|
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 | 1498.781 | 5.48 | 25.80 | 41.41 | 47.09 | 36.96 | 74.00 | -37.04 | peak |
| 2 | 4443.453 | 7.50 | 33.60 | 42.41 | 45.57 | 44.26 | 74.00 | -29.74 | peak |
| 3 | 4824.000 | 7.91 | 34.19 | 42.47 | 42.43 | 42.06 | 74.00 | -31.94 | peak |
| 4 pp | 6717.762 | 10.91 | 35.72 | 41.05 | 46.61 | 52.19 | 74.00 | -21.81 | peak |
| 5 | 7236.000 | 10.07 | 36.40 | 40.69 | 42.76 | 48.54 | 74.00 | -25.46 | peak |
| 6 | 9648.000 | 10.77 | 37.53 | 37.68 | 40.03 | 50.65 | 74.00 | -23.35 | peak |



Report No.: SZEM180100075801

Page: 79 of 136

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 00758CR

Mode : 2437 TX RSE

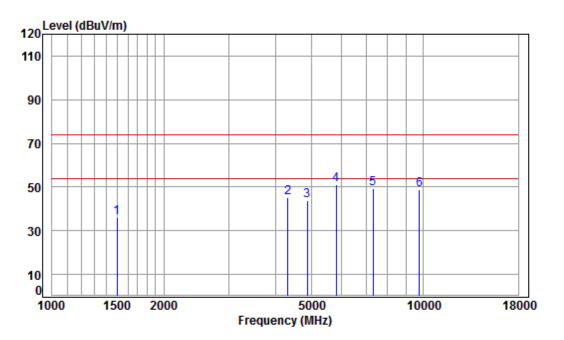
| | | | | • | | | | | |
|-----|------------|-------|--------|--------|-------|--------|--------|--------|--------|
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 | 1520.598 | 5.45 | 25.89 | 41.42 | 45.96 | 35.88 | 74.00 | -38.12 | peak |
| 2 | 4430.628 | 7.48 | 33.60 | 42.41 | 46.34 | 45.01 | 74.00 | -28.99 | peak |
| 3 | 4874.000 | 7.96 | 34.28 | 42.48 | 44.16 | 43.92 | 74.00 | -30.08 | peak |
| 4 p | p 6659.763 | 11.08 | 35.56 | 41.10 | 45.22 | 50.76 | 74.00 | -23.24 | peak |
| 5 | 7311.000 | 10.05 | 36.37 | 40.64 | 43.73 | 49.51 | 74.00 | -24.49 | peak |
| 6 | 9748.000 | 10.82 | 37.55 | 37.54 | 39.74 | 50.57 | 74.00 | -23.43 | peak |



Report No.: SZEM180100075801

Page: 80 of 136

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 00758CR

Mode : 2437 TX RSE

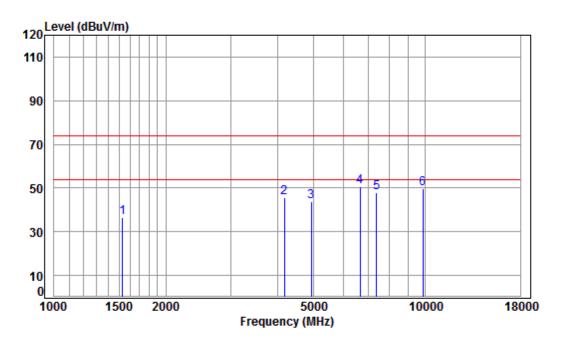
| ote | : 2.4 | G MTFT | 11N 20 | Ø | | | | | |
|------|----------|--------|--------|--------|-------|--------|--------|--------|--------|
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 | 1498.781 | 5.48 | 25.80 | 41.41 | 46.32 | 36.19 | 74.00 | -37.81 | peak |
| 2 | 4316.859 | 7.36 | 33.60 | 42.38 | 46.46 | 45.04 | 74.00 | -28.96 | peak |
| 3 | 4874.000 | 7.96 | 34.28 | 42.48 | 44.06 | 43.82 | 74.00 | -30.18 | peak |
| 4 pp | 5813.812 | 9.95 | 34.59 | 41.76 | 48.31 | 51.09 | 74.00 | -22.91 | peak |
| 5 | 7311.000 | 10.05 | 36.37 | 40.64 | 43.70 | 49.48 | 74.00 | -24.52 | peak |
| 6 | 9748.000 | 10.82 | 37.55 | 37.54 | 37.92 | 48.75 | 74.00 | -25.25 | peak |



Report No.: SZEM180100075801

Page: 81 of 136

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00758CR

Mode : 2462 TX RSE

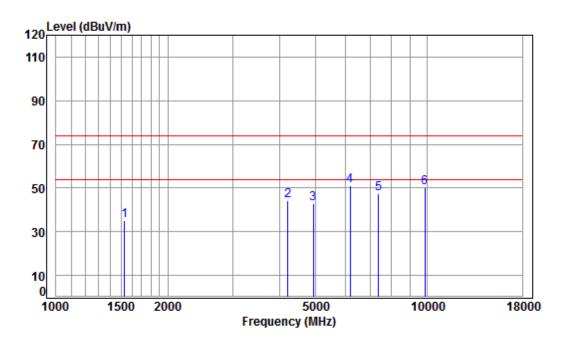
| | | | | _ | | | | | |
|-----|------------|-------|--------|--------|-------|--------|--------|--------|--------|
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 | 1529.414 | 5.44 | 25.94 | 41.43 | 46.68 | 36.63 | 74.00 | -37.37 | peak |
| 2 | 4169.698 | 7.18 | 33.60 | 42.36 | 47.02 | 45.44 | 74.00 | -28.56 | peak |
| 3 | 4924.000 | 8.01 | 34.37 | 42.49 | 43.99 | 43.88 | 74.00 | -30.12 | peak |
| 4 p | p 6659.763 | 11.08 | 35.56 | 41.10 | 45.22 | 50.76 | 74.00 | -23.24 | peak |
| 5 | 7386.000 | 10.03 | 36.34 | 40.59 | 41.99 | 47.77 | 74.00 | -26.23 | peak |
| 6 | 9848.000 | 10.87 | 37.57 | 37.41 | 38.68 | 49.71 | 74.00 | -24.29 | peak |



Report No.: SZEM180100075801

Page: 82 of 136

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00758CR

Mode : 2462 TX RSE

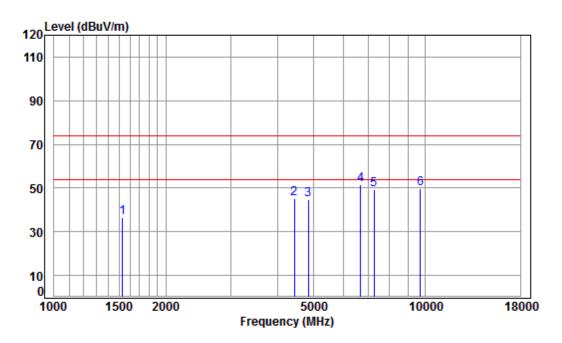
| ote | : 2.4 | G MTFT | 11N 2 | 0 | | | | | |
|------|----------|--------|--------|--------|-------|--------|--------|--------|--------|
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 | 1529.414 | 5.44 | 25.94 | 41.43 | 45.30 | 35.25 | 74.00 | -38.75 | peak |
| 2 | 4206.011 | 7.23 | 33.60 | 42.36 | 45.63 | 44.10 | 74.00 | -29.90 | peak |
| 3 | 4924.000 | 8.01 | 34.37 | 42.49 | 43.17 | 43.06 | 74.00 | -30.94 | peak |
| 4 pp | 6195.508 | 10.96 | 34.86 | 41.45 | 46.58 | 50.95 | 74.00 | -23.05 | peak |
| 5 | 7386.000 | 10.03 | 36.34 | 40.59 | 41.85 | 47.63 | 74.00 | -26.37 | peak |
| 6 | 9848.000 | 10.87 | 37.57 | 37.41 | 39.30 | 50.33 | 74.00 | -23.67 | neak |



Report No.: SZEM180100075801

Page: 83 of 136

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00758CR

Mode : 2422 TX RSE

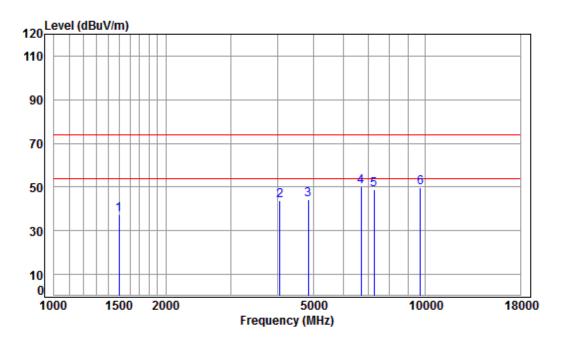
| ote | : 2.4 | G MTLT | 11N 4 | 0 | | | | | |
|------|----------|--------|--------|--------|-------|--------|--------|--------|--------|
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1529.414 | 5.44 | 25.94 | 41.43 | 46.68 | 36.63 | 74.00 | -37.37 | peak |
| 2 | 4443.453 | 7.50 | 33.60 | 42.41 | 46.54 | 45.23 | 74.00 | -28.77 | peak |
| 3 | 4844.000 | 7.93 | 34.23 | 42.48 | 44.87 | 44.55 | 74.00 | -29.45 | peak |
| 4 pp | 6679.040 | 11.02 | 35.61 | 41.08 | 45.87 | 51.42 | 74.00 | -22.58 | peak |
| 5 | 7266.000 | 10.06 | 36.39 | 40.67 | 43.40 | 49.18 | 74.00 | -24.82 | peak |
| 6 | 9688,000 | 10.79 | 37.54 | 37.63 | 39.26 | 49.96 | 74.00 | -24.04 | neak |



Report No.: SZEM180100075801

Page: 84 of 136

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 00758CR

Mode : 2422 TX RSE

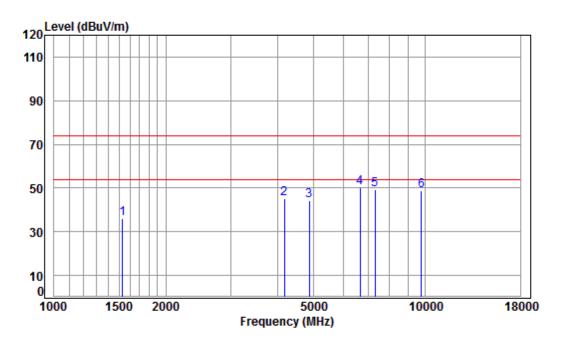
| ote | : 2.4 | G MTFT | 11N 4 | Ø | | | | | |
|------|----------|--------|--------|--------|-------|--------|--------|--------|--------|
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 | 1498.781 | 5.48 | 25.80 | 41.41 | 47.33 | 37.20 | 74.00 | -36.80 | peak |
| 2 | 4050.904 | 7.04 | 33.60 | 42.34 | 45.48 | 43.78 | 74.00 | -30.22 | peak |
| 3 | 4844.000 | 7.93 | 34.23 | 42.48 | 44.71 | 44.39 | 74.00 | -29.61 | peak |
| 4 pp | 6717.762 | 10.91 | 35.72 | 41.05 | 44.64 | 50.22 | 74.00 | -23.78 | peak |
| 5 | 7266.000 | 10.06 | 36.39 | 40.67 | 43.27 | 49.05 | 74.00 | -24.95 | peak |
| 6 | 9688.000 | 10.79 | 37.54 | 37.63 | 38.97 | 49.67 | 74.00 | -24.33 | peak |



Report No.: SZEM180100075801

Page: 85 of 136

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 00758CR

Mode : 2437 TX RSE

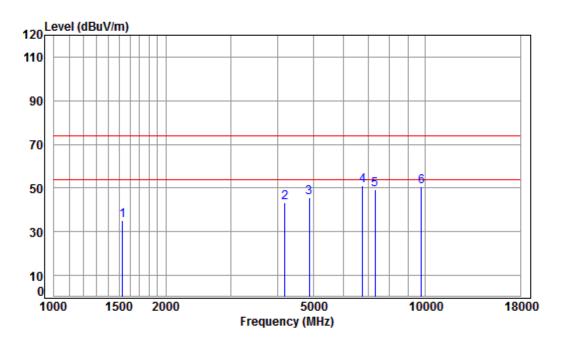
| ote | : 2.4 | G MTFT | 11N 4 | 0 | | | | | |
|------|----------|--------|--------|--------|-------|--------|--------|--------|--------|
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 | 1529.414 | 5.44 | 25.94 | 41.43 | 46.20 | 36.15 | 74.00 | -37.85 | peak |
| 2 | 4169.698 | 7.18 | 33.60 | 42.36 | 46.90 | 45.32 | 74.00 | -28.68 | peak |
| 3 | 4874.000 | 7.96 | 34.28 | 42.48 | 44.45 | 44.21 | 74.00 | -29.79 | peak |
| 4 pp | 6659.763 | 11.08 | 35.56 | 41.10 | 44.66 | 50.20 | 74.00 | -23.80 | peak |
| 5 | 7311.000 | 10.05 | 36.37 | 40.64 | 43.29 | 49.07 | 74.00 | -24.93 | peak |
| 6 | 9748.000 | 10.82 | 37.55 | 37.54 | 38.00 | 48.83 | 74.00 | -25.17 | peak |



Report No.: SZEM180100075801

Page: 86 of 136

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 00758CR

Mode : 2437 TX RSE

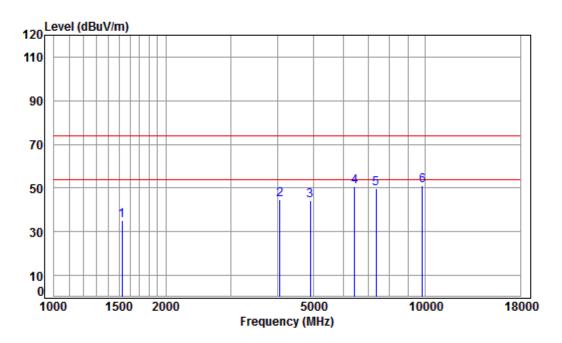
| ote | : 2.4 | G MTFT | 11N 4 | Ø | | | | | | |
|-----|------------|--------|--------|--------|-------|--------|--------|--------|--------|--|
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | | |
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | | |
| 1 | 1529.414 | 5.44 | 25.94 | 41.43 | 45.12 | 35.07 | 74.00 | -38.93 | peak | |
| 2 | 4181.768 | 7.20 | 33.60 | 42.36 | 45.10 | 43.54 | 74.00 | -30.46 | peak | |
| 3 | 4874.000 | 7.96 | 34.28 | 42.48 | 45.74 | 45.50 | 74.00 | -28.50 | peak | |
| 4 p | p 6776.265 | 10.75 | 35.89 | 41.01 | 45.51 | 51.14 | 74.00 | -22.86 | peak | |
| 5 | 7311.000 | 10.05 | 36.37 | 40.64 | 43.43 | 49.21 | 74.00 | -24.79 | peak | |
| 6 | 9748.000 | 10.82 | 37.55 | 37.54 | 39.97 | 50.80 | 74.00 | -23.20 | peak | |



Report No.: SZEM180100075801

Page: 87 of 136

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00758CR

Mode : 2452 TX RSE

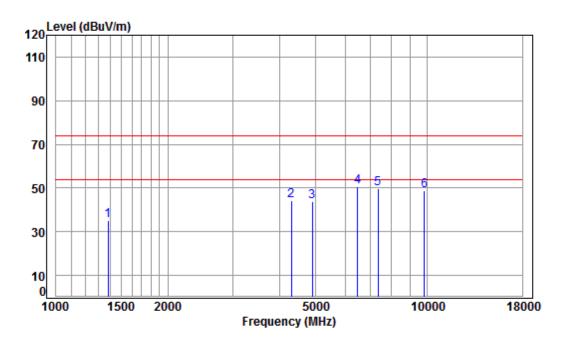
| οτε | : 2.4 | FG MTFT | . 11N 4 | Ø | | | | | | |
|-----|-------------|---------|---------|--------|-------|--------|--------|--------|--------|--|
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | | |
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | | |
| 1 | 1525.000 | 5.45 | 25.91 | 41.42 | 45.29 | 35.23 | 74.00 | -38.77 | peak | |
| 2 | 4050.904 | 7.04 | 33.60 | 42.34 | 46.37 | 44.67 | 74.00 | -29.33 | peak | |
| 3 | 4904.000 | 7.99 | 34.33 | 42.48 | 44.29 | 44.13 | 74.00 | -29.87 | peak | |
| 4 | 6451.353 | 11.45 | 35.06 | 41.25 | 45.18 | 50.44 | 74.00 | -23.56 | peak | |
| 5 | 7356.000 | 10.04 | 36.36 | 40.61 | 44.11 | 49.90 | 74.00 | -24.10 | peak | |
| 6 | pp 9808,000 | 10.85 | 37.56 | 37.46 | 40.15 | 51.10 | 74.00 | -22.90 | peak | |



Report No.: SZEM180100075801

Page: 88 of 136

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00758CR

Mode : 2452 TX RSE

| 000 | . 2.7 | G W11 1 | 1114 4 | • | | | | | |
|------|----------|---------|--------|--------|-------|--------|--------|--------|--------|
| | | 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 | 1382.262 | 5.09 | 25.32 | 41.32 | 45.99 | 35.08 | 74.00 | -38.92 | peak |
| 2 | 4304.400 | 7.34 | 33.60 | 42.38 | 45.69 | 44.25 | 74.00 | -29.75 | peak |
| 3 | 4904.000 | 7.99 | 34.33 | 42.48 | 44.13 | 43.97 | 74.00 | -30.03 | peak |
| 4 pr | 6488.754 | | | | | | | | - |
| 5 | 7356.000 | 10.04 | 36.36 | 40.61 | 43.72 | 49.51 | 74.00 | -24.49 | peak |
| 6 | 9808.000 | 10.85 | 37.56 | 37.46 | 37.98 | 48.93 | 74.00 | -25.07 | peak |
| | | | | | | | | | |



Report No.: SZEM180100075801

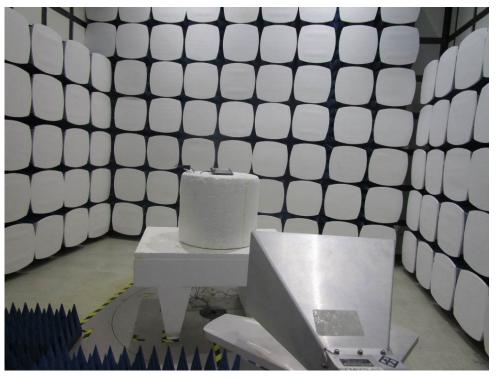
Page: 89 of 136

8 Photographs

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



8.2 Radiated Emissions which fall in the restricted bands Test Setup



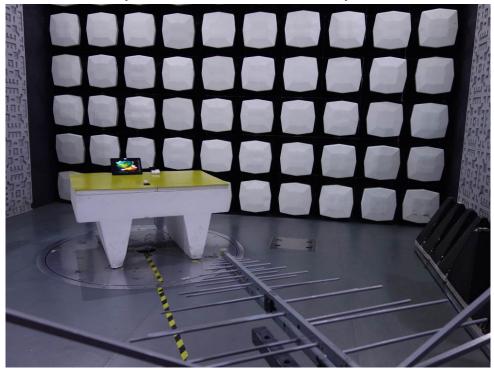
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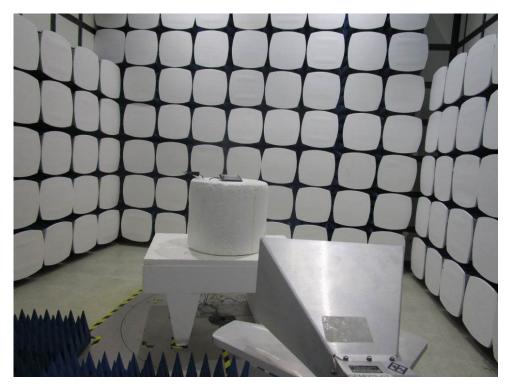


Report No.: SZEM180100075801

Page: 90 of 136

8.3 Radiated Spurious Emissions Test Setup





8.4 EUT Constructional Details (EUT Photos)

Refer to EUT external and internal photos.

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Report No.: SZEM180100075801

Page: 91 of 136

9 Appendix

9.1 Appendix 15.247

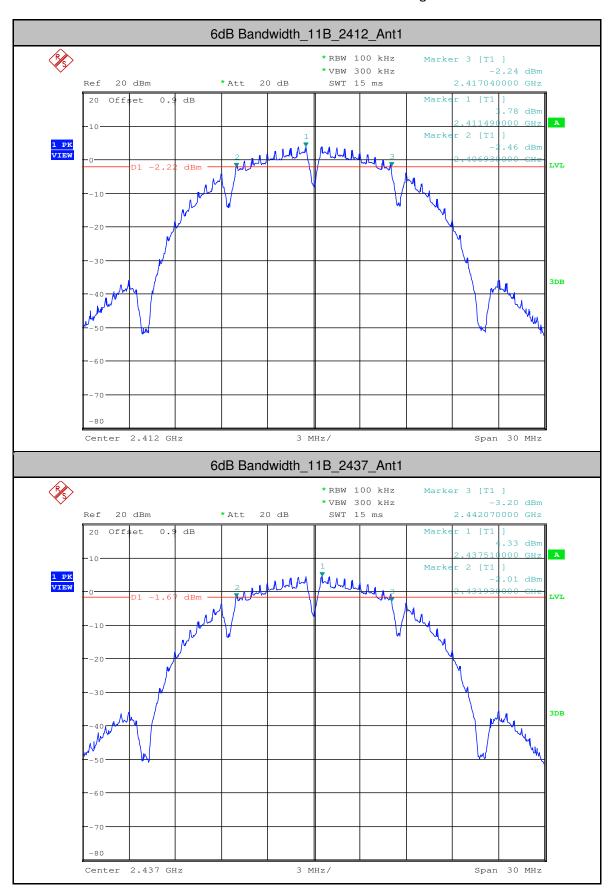
1.6dB Bandwidth

| Test Mode | Test | Ant | EBW[MHz] | Limit[MHz] | Verdict |
|-----------|------|------|----------|------------|---------|
| 11B | 2412 | Ant1 | 10.110 | >=0.5 | PASS |
| 11B | 2437 | Ant1 | 10.140 | >=0.5 | PASS |
| 11B | 2462 | Ant1 | 10.110 | >=0.5 | PASS |
| 11G | 2412 | Ant1 | 16.650 | >=0.5 | PASS |
| 11G | 2437 | Ant1 | 16.650 | >=0.5 | PASS |
| 11G | 2462 | Ant1 | 16.575 | >=0.5 | PASS |
| 11N20SISO | 2412 | Ant1 | 17.850 | >=0.5 | PASS |
| 11N20SISO | 2437 | Ant1 | 17.850 | >=0.5 | PASS |
| 11N20SISO | 2462 | Ant1 | 17.850 | >=0.5 | PASS |
| 11N40SISO | 2422 | Ant1 | 36.480 | >=0.5 | PASS |
| 11N40SISO | 2437 | Ant1 | 36.480 | >=0.5 | PASS |
| 11N40SISO | 2452 | Ant1 | 36.480 | >=0.5 | PASS |



Report No.: SZEM180100075801

Page: 92 of 136

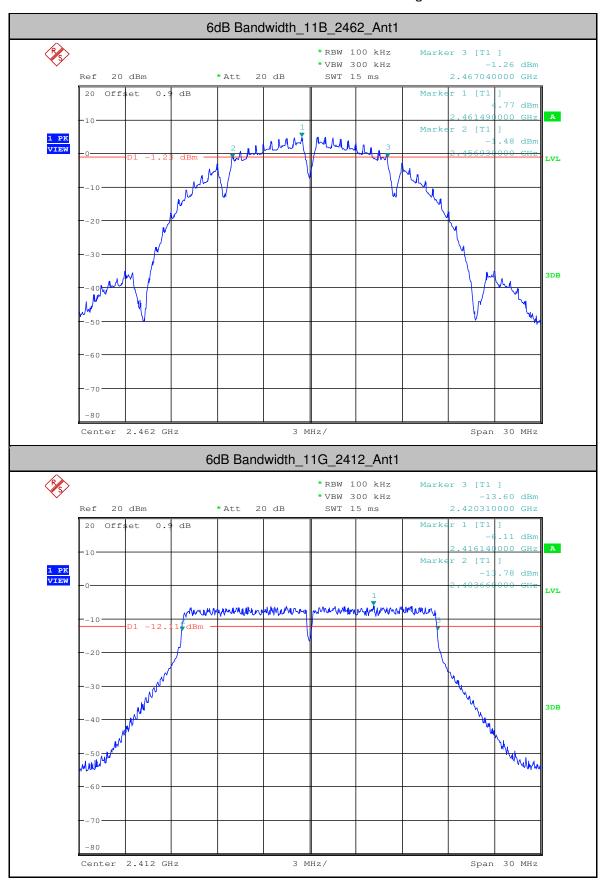


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Report No.: SZEM180100075801

Page: 93 of 136

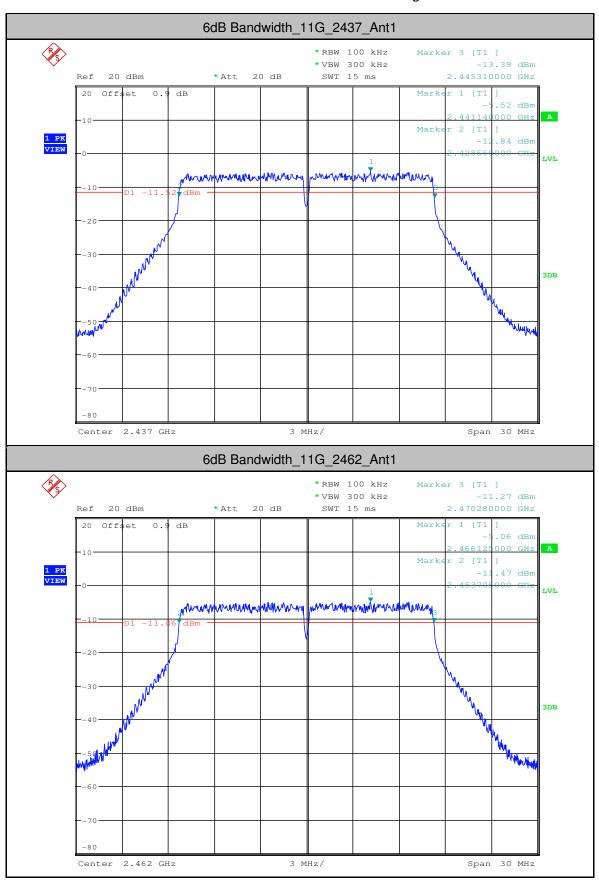


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Report No.: SZEM180100075801

Page: 94 of 136

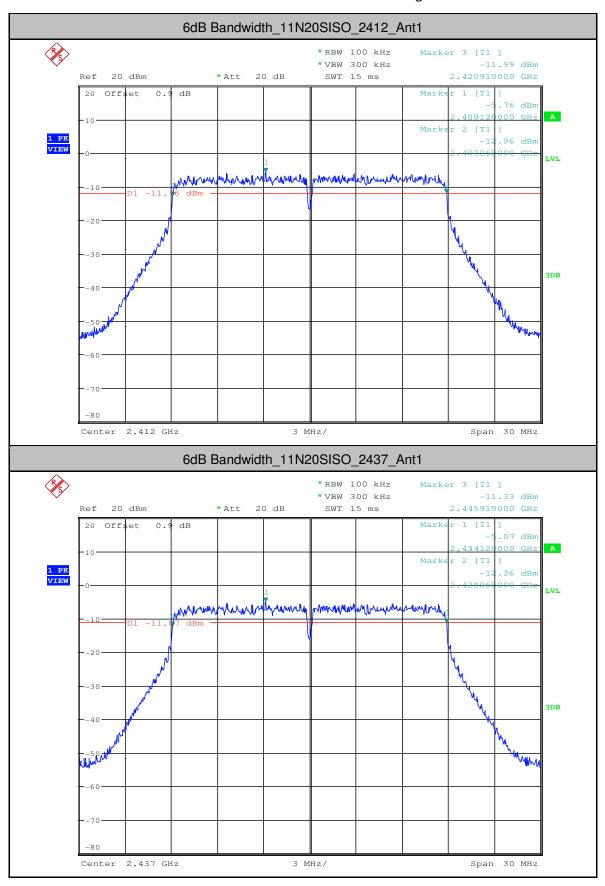


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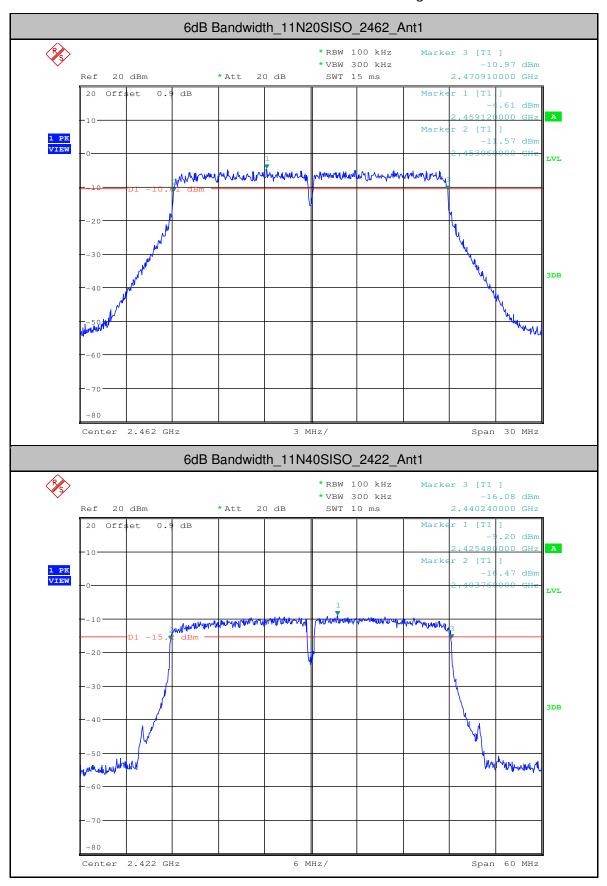
Page: 95 of 136





Report No.: SZEM180100075801

Page: 96 of 136

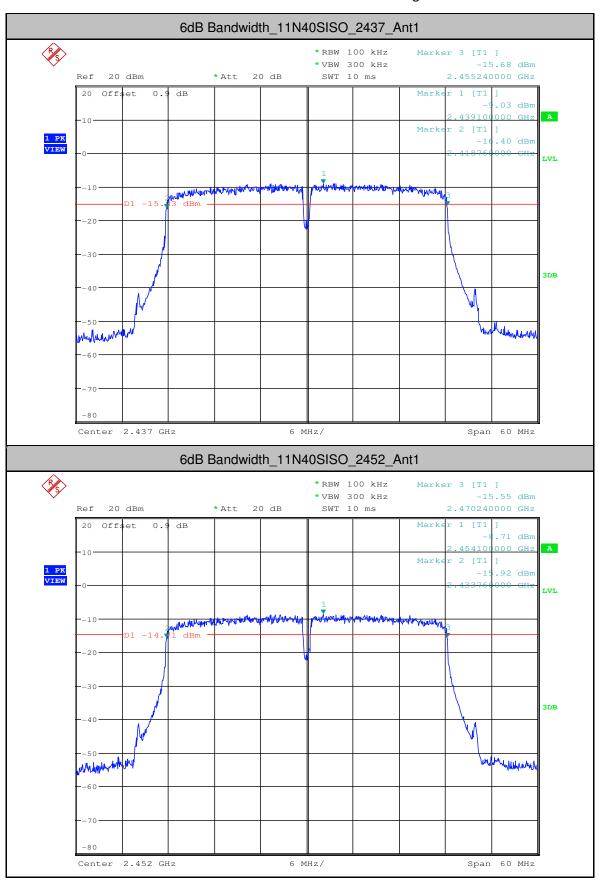


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Report No.: SZEM180100075801

Page: 97 of 136



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Report No.: SZEM180100075801

Page: 98 of 136

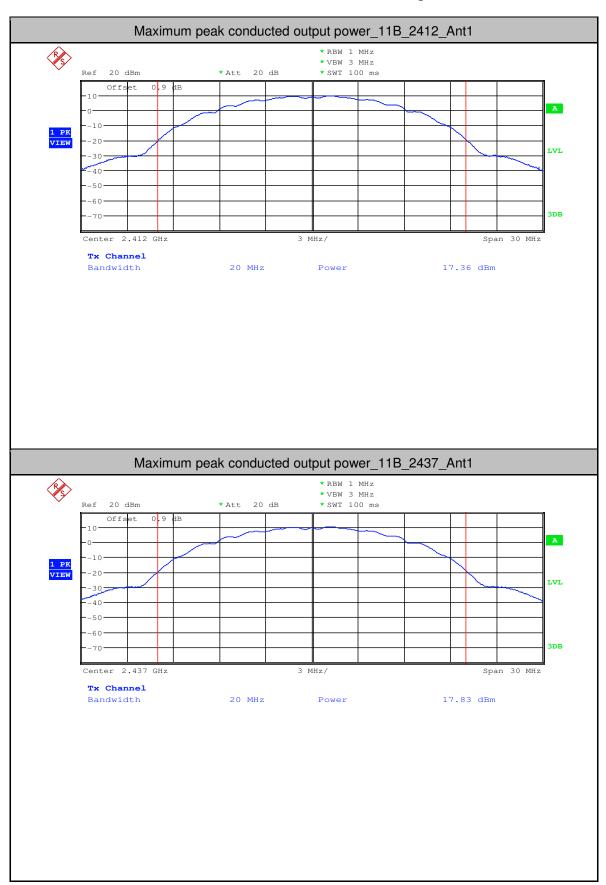
3.Maximum peak conducted output power

| Test Mode | Test Channel | Ant | Power[dBm] | Limit[dBm] | Verdict |
|-----------|--------------|------|------------|------------|---------|
| 11B | 2412 | Ant1 | 17.36 | <30 | PASS |
| 11B | 2437 | Ant1 | 17.83 | <30 | PASS |
| 11B | 2462 | Ant1 | 18.3 | <30 | PASS |
| 11G | 2412 | Ant1 | 16.43 | <30 | PASS |
| 11G | 2437 | Ant1 | 16.97 | <30 | PASS |
| 11G | 2462 | Ant1 | 17.51 | <30 | PASS |
| 11N20SISO | 2412 | Ant1 | 16.77 | <30 | PASS |
| 11N20SISO | 2437 | Ant1 | 17.45 | <30 | PASS |
| 11N20SISO | 2462 | Ant1 | 17.91 | <30 | PASS |
| 11N40SISO | 2422 | Ant1 | 16.25 | <30 | PASS |
| 11N40SISO | 2437 | Ant1 | 16.59 | <30 | PASS |
| 11N40SISO | 2452 | Ant1 | 16.84 | <30 | PASS |



Report No.: SZEM180100075801

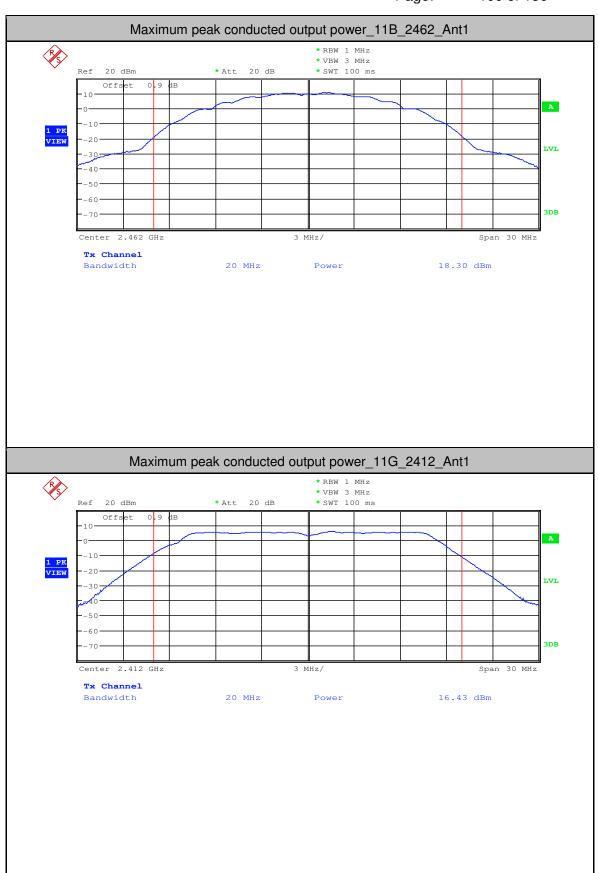
Page: 99 of 136





Report No.: SZEM180100075801

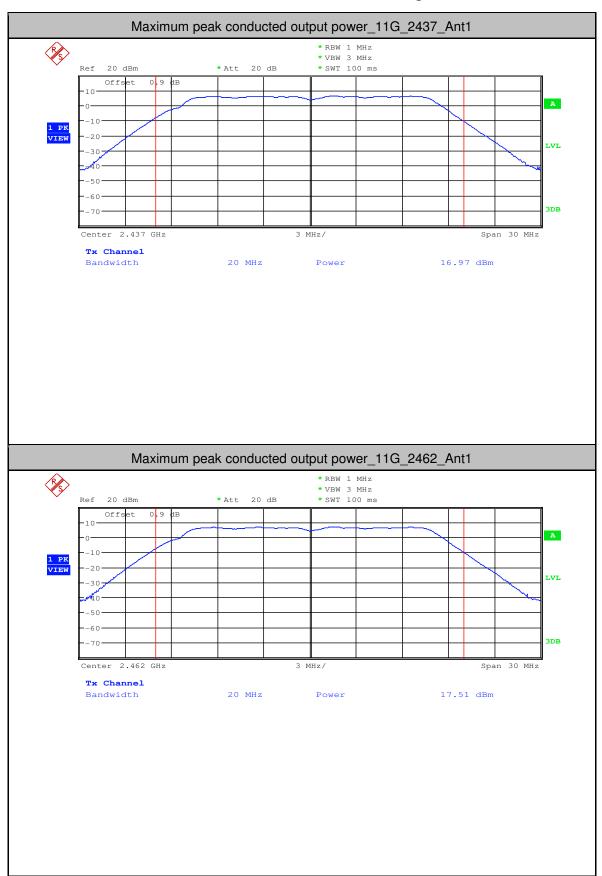
Page: 100 of 136





Report No.: SZEM180100075801

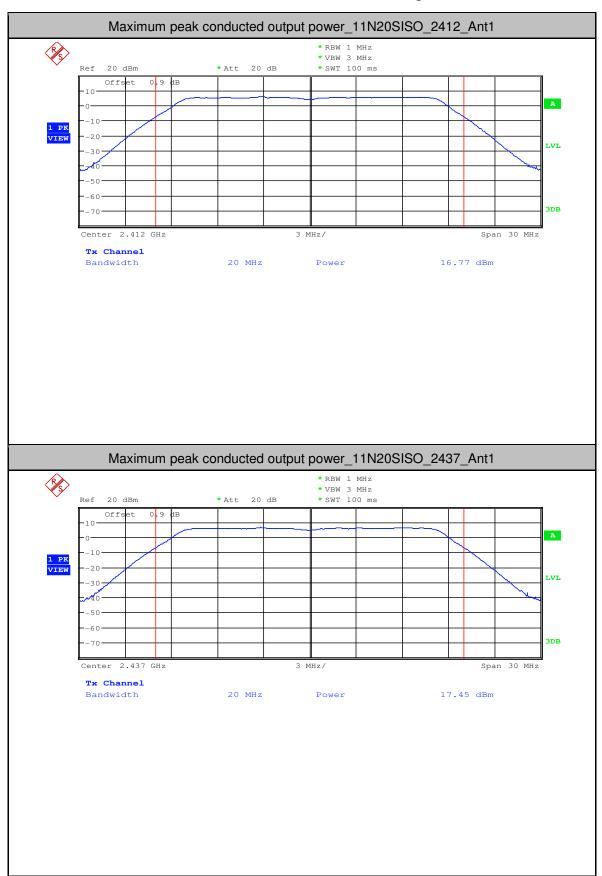
Page: 101 of 136





Report No.: SZEM180100075801

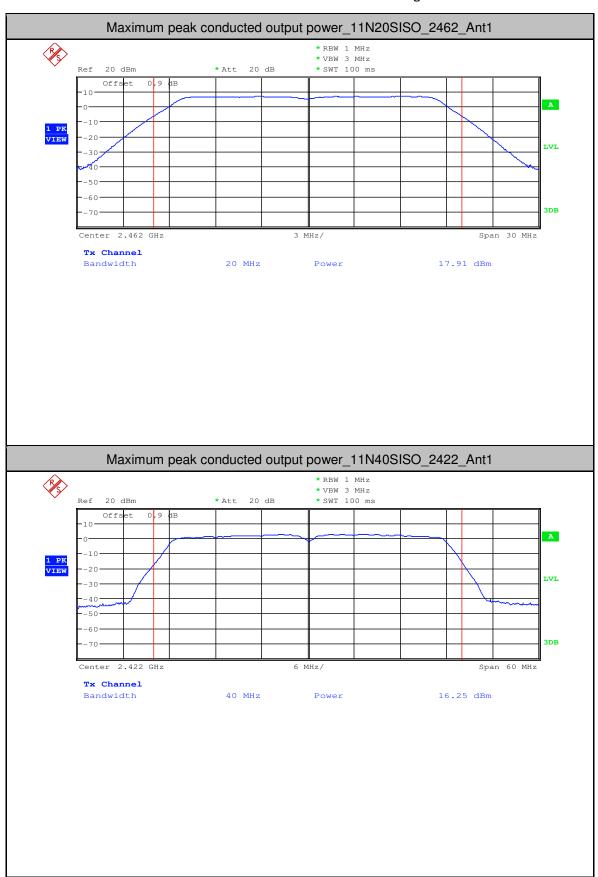
Page: 102 of 136





Report No.: SZEM180100075801

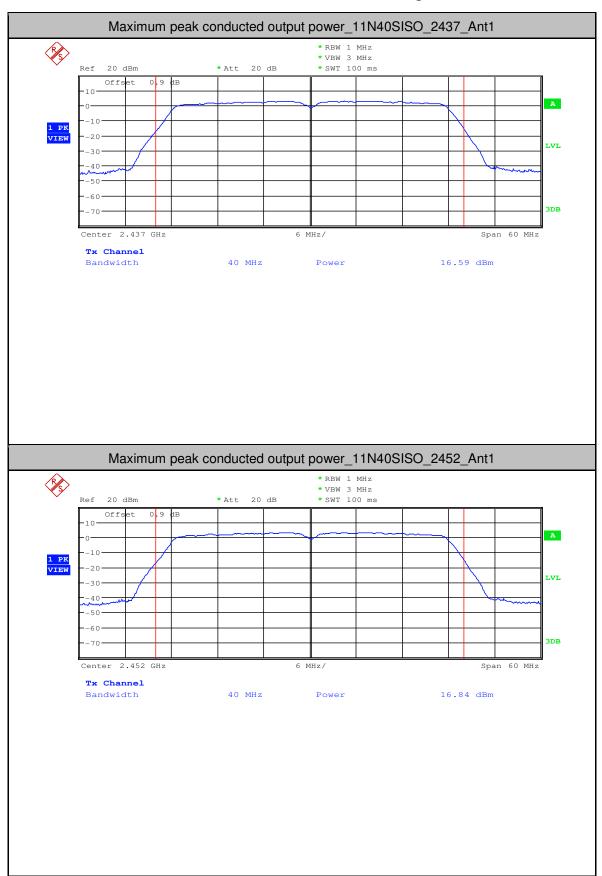
Page: 103 of 136





Report No.: SZEM180100075801

Page: 104 of 136





Report No.: SZEM180100075801

Page: 105 of 136

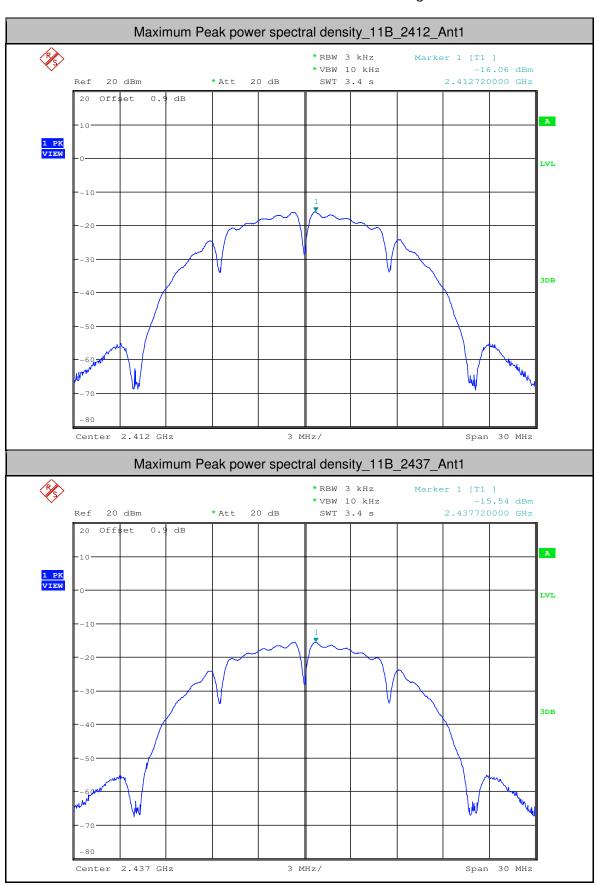
4. Maximum Peak power spectral density

| Test Mode | Test Channel | Ant | PSD[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|-----------|--------------|------|---------------|-----------------|---------|
| 11B | 2412 | Ant1 | -16.06 | <8.00 | PASS |
| 11B | 2437 | Ant1 | -15.54 | <8.00 | PASS |
| 11B | 2462 | Ant1 | -15.13 | <8.00 | PASS |
| 11G | 2412 | Ant1 | -20.15 | <8.00 | PASS |
| 11G | 2437 | Ant1 | -19.52 | <8.00 | PASS |
| 11G | 2462 | Ant1 | -19.02 | <8.00 | PASS |
| 11N20SISO | 2412 | Ant1 | -19.45 | <8.00 | PASS |
| 11N20SISO | 2437 | Ant1 | -19.1 | <8.00 | PASS |
| 11N20SISO | 2462 | Ant1 | -18.36 | <8.00 | PASS |
| 11N40SISO | 2422 | Ant1 | -22.32 | <8.00 | PASS |
| 11N40SISO | 2437 | Ant1 | -21.09 | <8.00 | PASS |
| 11N40SISO | 2452 | Ant1 | -21.28 | <8.00 | PASS |



Report No.: SZEM180100075801

Page: 106 of 136

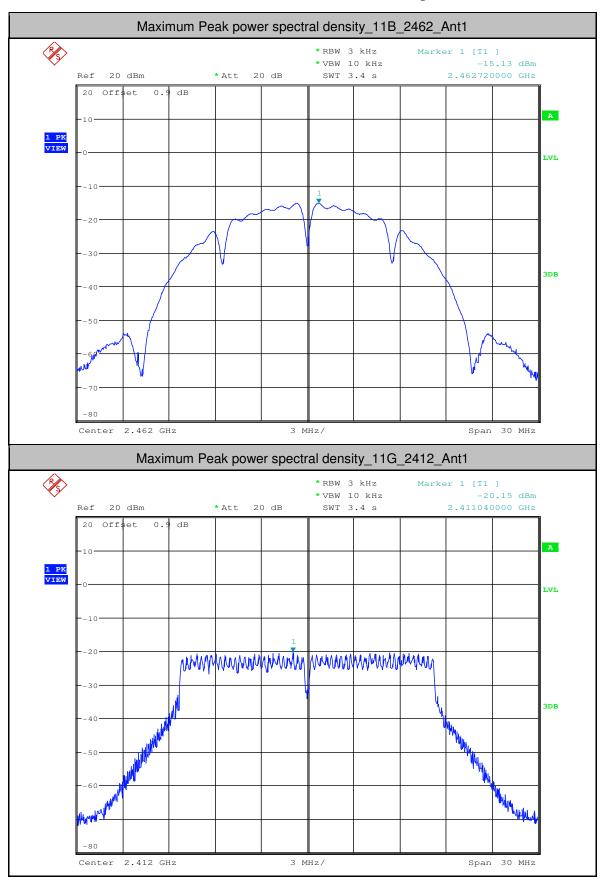


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Report No.: SZEM180100075801

Page: 107 of 136

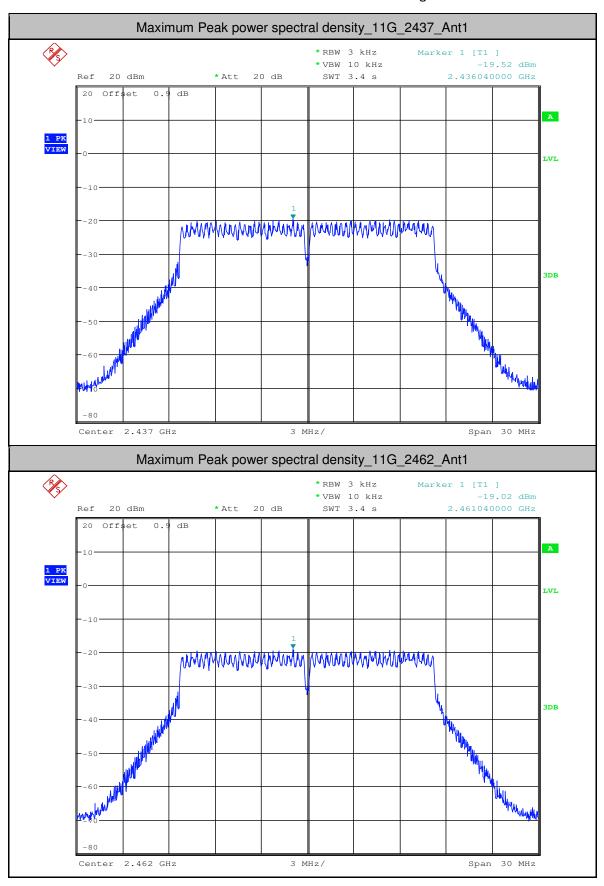


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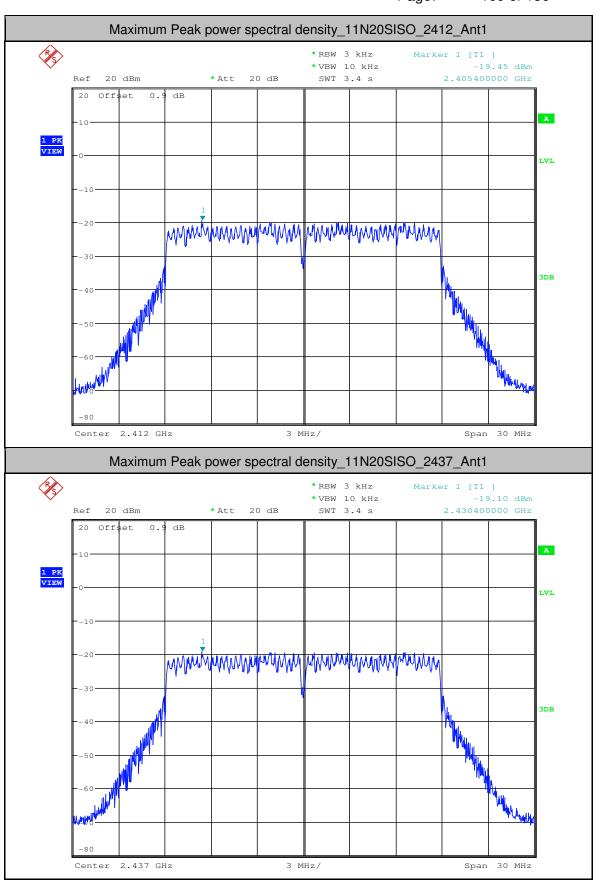
Page: 108 of 136





Report No.: SZEM180100075801

Page: 109 of 136

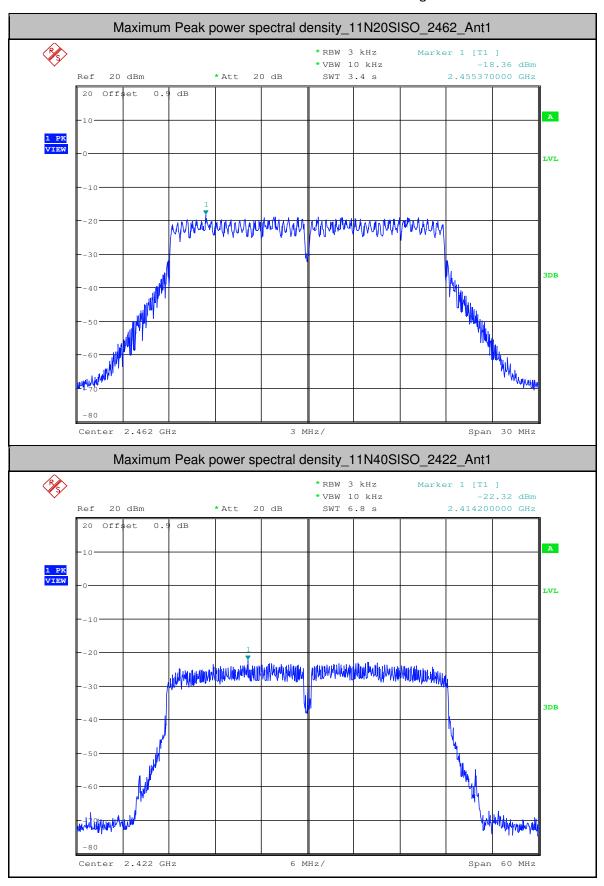


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Report No.: SZEM180100075801

Page: 110 of 136

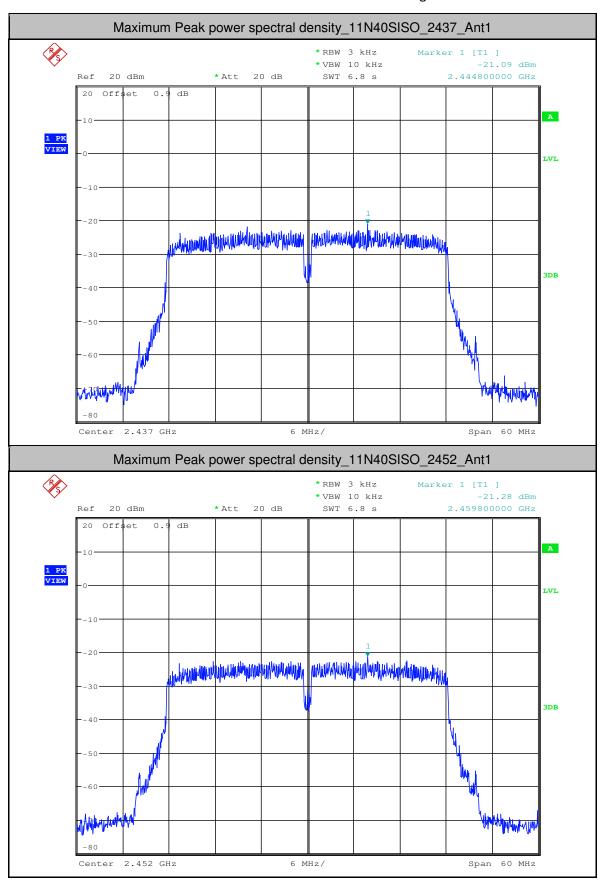


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Report No.: SZEM180100075801

Page: 111 of 136



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Report No.: SZEM180100075801

Page: 112 of 136

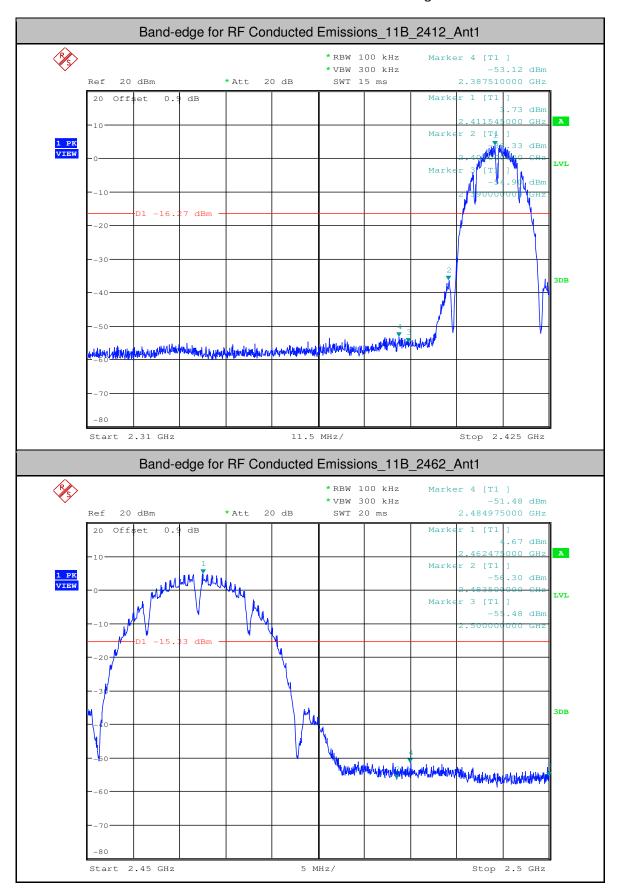
5.Band-edge for RF Conducted Emissions

| Test Mode | Test Channel | Ant | Carrier Power[dBm] | Max. Spurious Level [dBm] | Limit [dBm] | Verdict |
|--------------|-----------------|------|-----------------------|---------------------------------|----------------|---------|
| 11B | 2412 | Ant1 | 3.730 | -53.122 | <-16.27 | PASS |
| 11B | 2462 | Ant1 | 4.670 | -51.476 | <-15.33 | PASS |
| 11G | 2412 | Ant1 | -6.200 | -50.690 | <-26.2 | PASS |
| 11G | 2462 | Ant1 | -5.150 | -53.299 | <-25.15 | PASS |
| 11N20SISO | 2412 | Ant1 | -5.910 | -50.349 | <-25.91 | PASS |
| 11N20SISO | 2462 | Ant1 | -5.100 | -53.080 | <-25.1 | PASS |
| 11N40SISO | 2422 | Ant1 | -9.380 | -51.778 | <-29.38 | PASS |
| 11N40SISO | 2452 | Ant1 | -8.690 | -53.155 | <-28.69 | PASS |



Report No.: SZEM180100075801

Page: 113 of 136

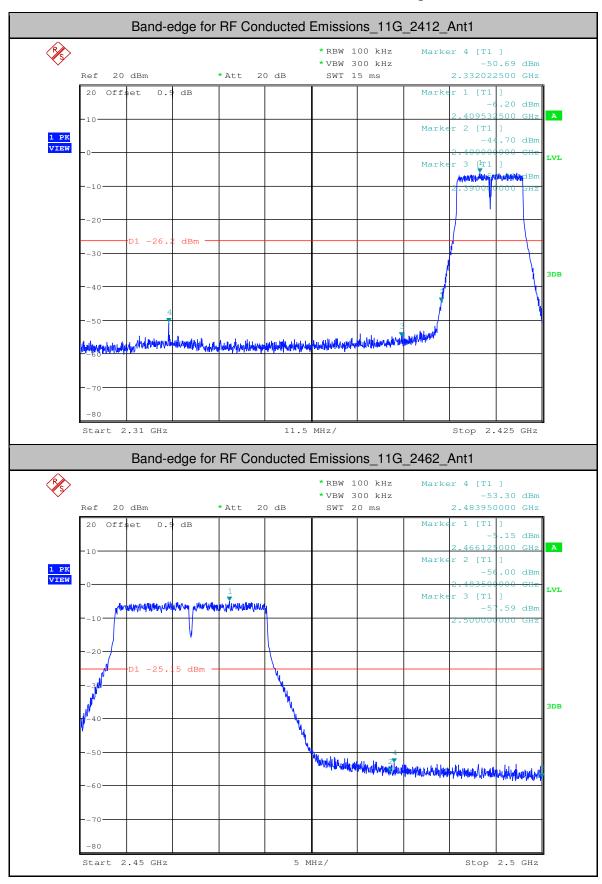


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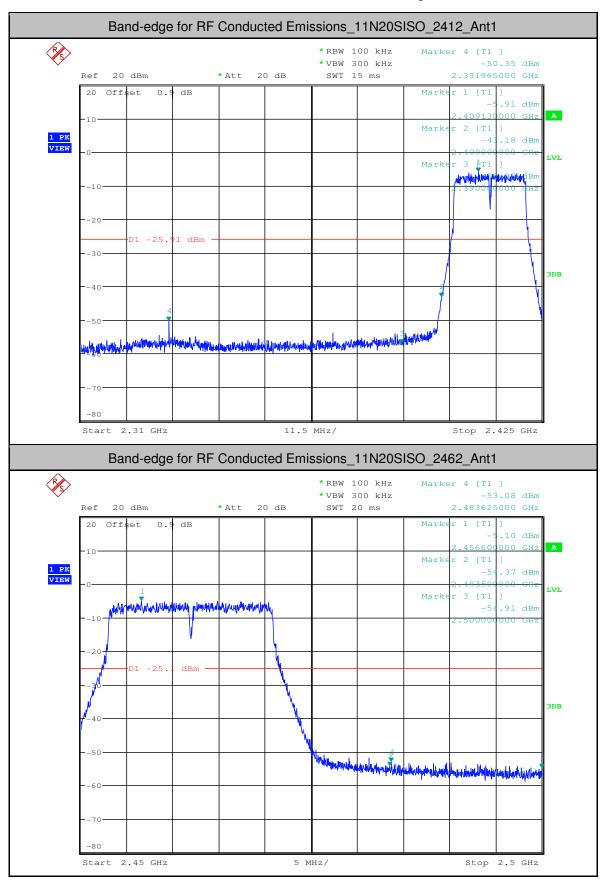
Page: 114 of 136





Report No.: SZEM180100075801

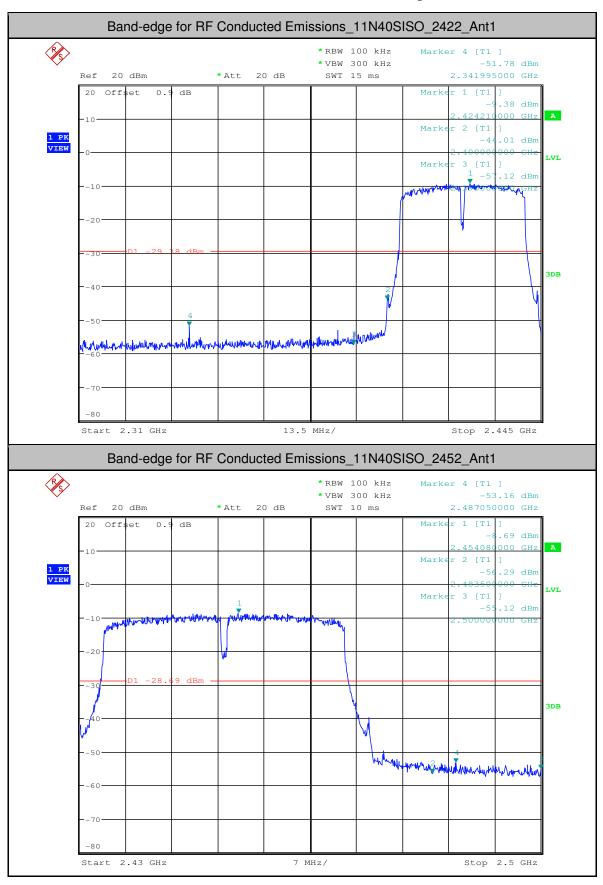
Page: 115 of 136





Report No.: SZEM180100075801

Page: 116 of 136





Report No.: SZEM180100075801

Page: 117 of 136

6.RF Conducted Spurious Emissions

| Test Mode | Test Channel | StartFre [MHz] | StopFre [MHz] | RBW [kHz] | VBW [kHz] | Pref[dBm] | Max. Level [dBm] | Limit [dBm] | Verdict |
|-----------|-----------------|-------------------|------------------|--------------|--------------|-----------|------------------------|----------------|---------|
| 11B | 2412 | 30 | 10000 | 1000 | 3000 | 3.56 | -23.390 | <- 16.44 | PASS |
| 11B | 2412 | 10000 | 25000 | 1000 | 3000 | 3.56 | -62.750 | <- 16.44 | PASS |
| 11B | 2437 | 30 | 10000 | 1000 | 3000 | 4.16 | -22.980 | <- 15.84 | PASS |
| 11B | 2437 | 10000 | 25000 | 1000 | 3000 | 4.16 | -62.020 | <- 15.84 | PASS |
| 11B | 2462 | 30 | 10000 | 1000 | 3000 | 4.57 | -22.050 | <- 15.43 | PASS |
| 11B | 2462 | 10000 | 25000 | 1000 | 3000 | 4.57 | -62.740 | <- 15.43 | PASS |
| 11G | 2412 | 30 | 10000 | 1000 | 3000 | -6.39 | -33.850 | <- 26.39 | PASS |
| 11G | 2412 | 10000 | 25000 | 1000 | 3000 | -6.39 | -62.330 | <- 26.39 | PASS |
| 11G | 2437 | 30 | 10000 | 1000 | 3000 | -5.44 | -34.270 | <- 25.44 | PASS |
| 11G | 2437 | 10000 | 25000 | 1000 | 3000 | -5.44 | -62.750 | <- 25.44 | PASS |
| 11G | 2462 | 30 | 10000 | 1000 | 3000 | -4.99 | -33.460 | <- 24.99 | PASS |
| 11G | 2462 | 10000 | 25000 | 1000 | 3000 | -4.99 | -62.350 | <- 24.99 | PASS |
| 11N20SISO | 2412 | 30 | 10000 | 1000 | 3000 | -5.69 | -31.480 | <- 25.69 | PASS |
| 11N20SISO | 2412 | 10000 | 25000 | 1000 | 3000 | -5.69 | -62.340 | <- 25.69 | PASS |
| 11N20SISO | 2437 | 30 | 10000 | 1000 | 3000 | -5.13 | -33.510 | <- 25.13 | PASS |
| 11N20SISO | 2437 | 10000 | 25000 | 1000 | 3000 | -5.13 | -61.410 | <- 25.13 | PASS |
| 11N20SISO | 2462 | 30 | 10000 | 1000 | 3000 | -5.09 | -30.650 | <- 25.09 | PASS |
| 11N20SISO | 2462 | 10000 | 25000 | 1000 | 3000 | -5.09 | -62.210 | <- 25.09 | PASS |
| 11N40SISO | 2422 | 30 | 10000 | 1000 | 3000 | -9.5 | -37.880 | <-29.5 | PASS |
| 11N40SISO | 2422 | 10000 | 25000 | 1000 | 3000 | -9.5 | -62.730 | <-29.5 | PASS |

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Report No.: SZEM180100075801

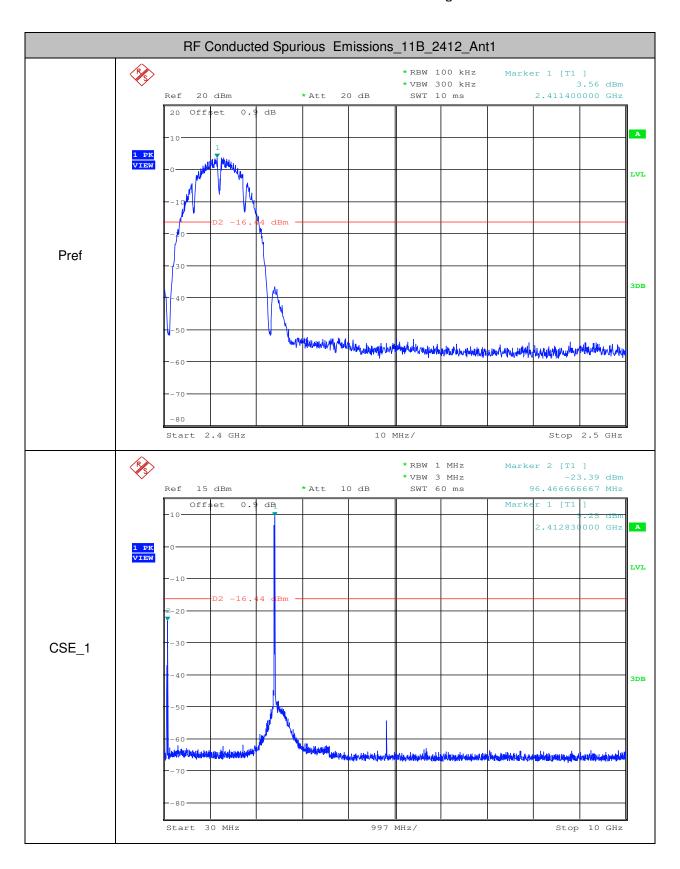
Page: 118 of 136

| 11N40SISO | 2437 | 30 | 10000 | 1000 | 3000 | -9 | -38.030 | <-29 | PASS |
|-----------|------|-------|-------|------|------|-------|---------|-------------|------|
| 11N40SISO | 2437 | 10000 | 25000 | 1000 | 3000 | -9 | -61.960 | <-29 | PASS |
| 11N40SISO | 2452 | 30 | 10000 | 1000 | 3000 | -8.56 | -38.310 | <- 28.56 | PASS |
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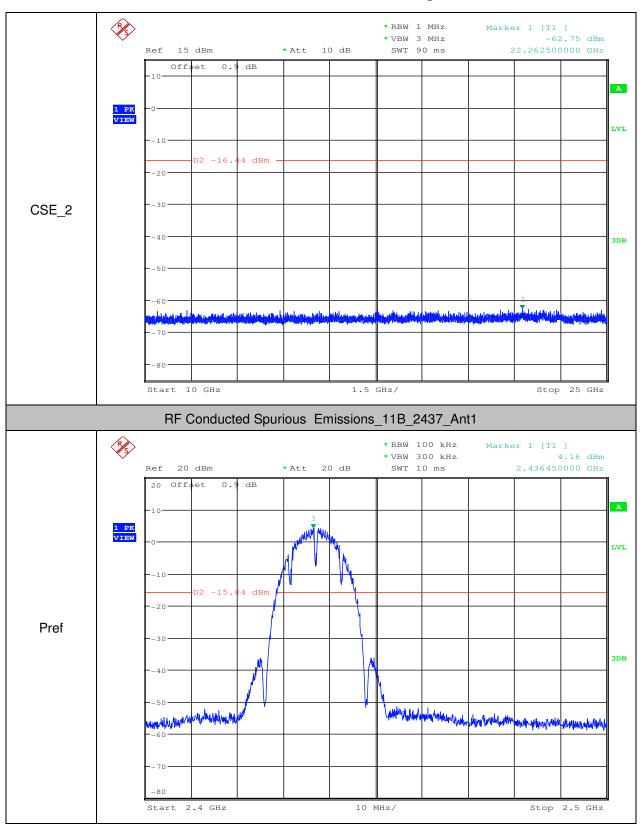
Page: 119 of 136





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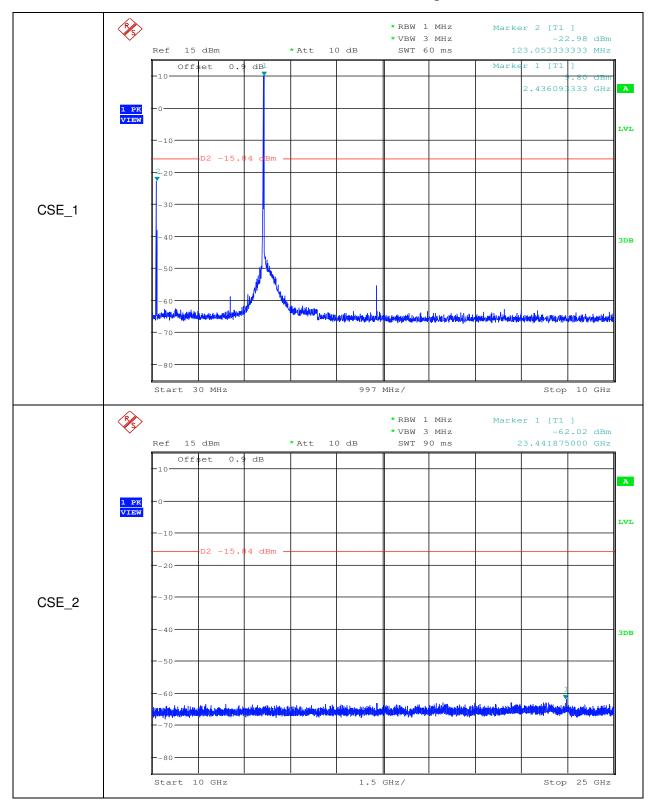
Page: 120 of 136





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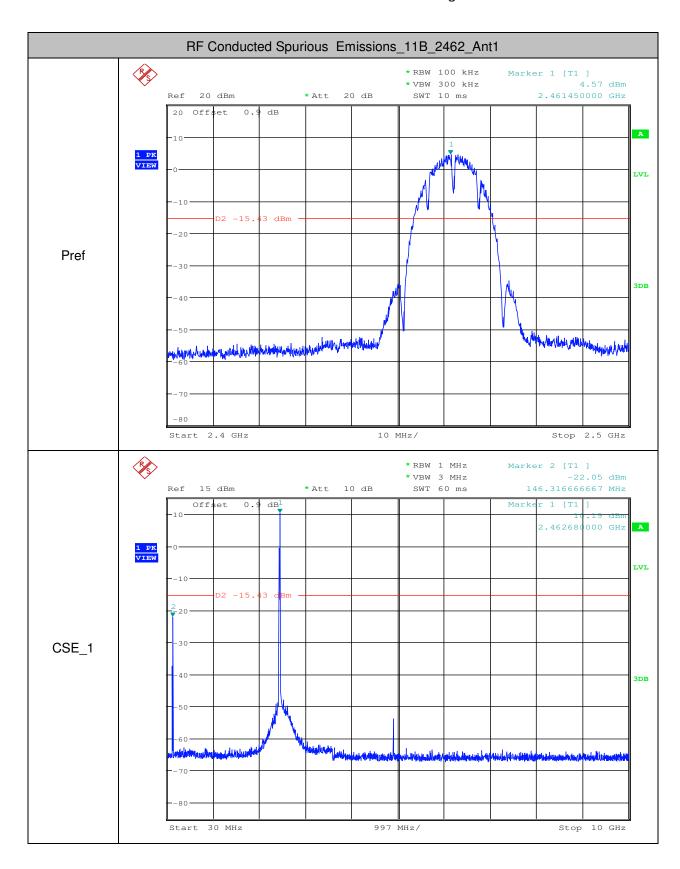
Page: 121 of 136





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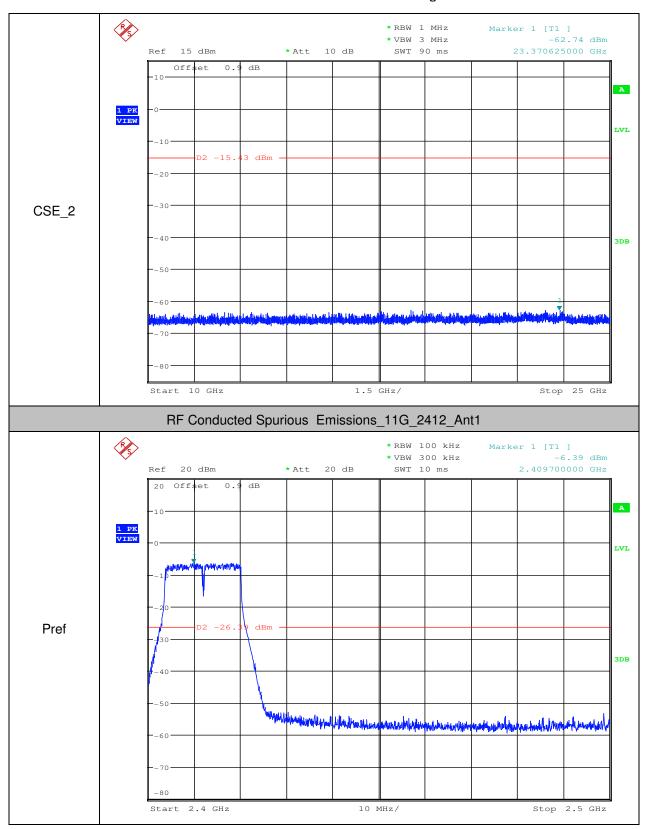
Page: 122 of 136





Report No.: SZEM180100075801

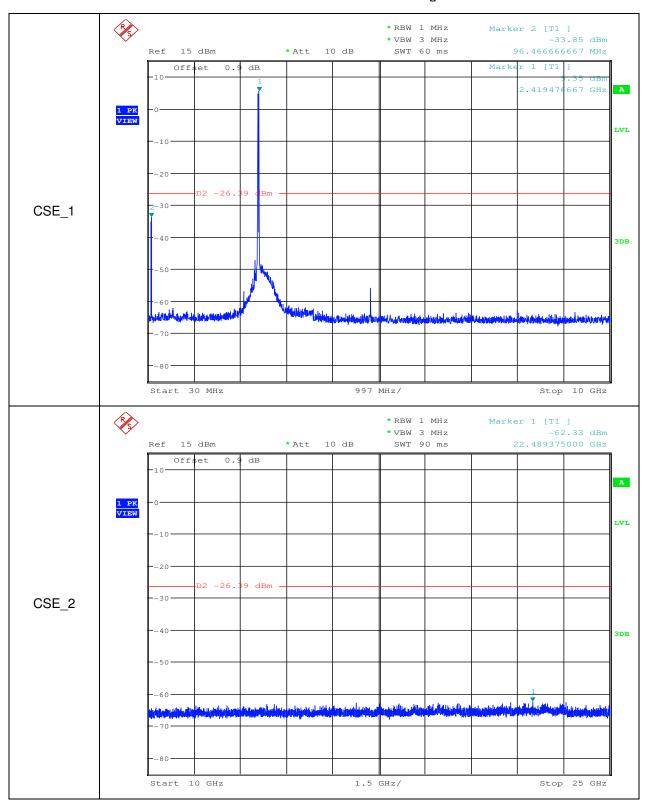
Page: 123 of 136





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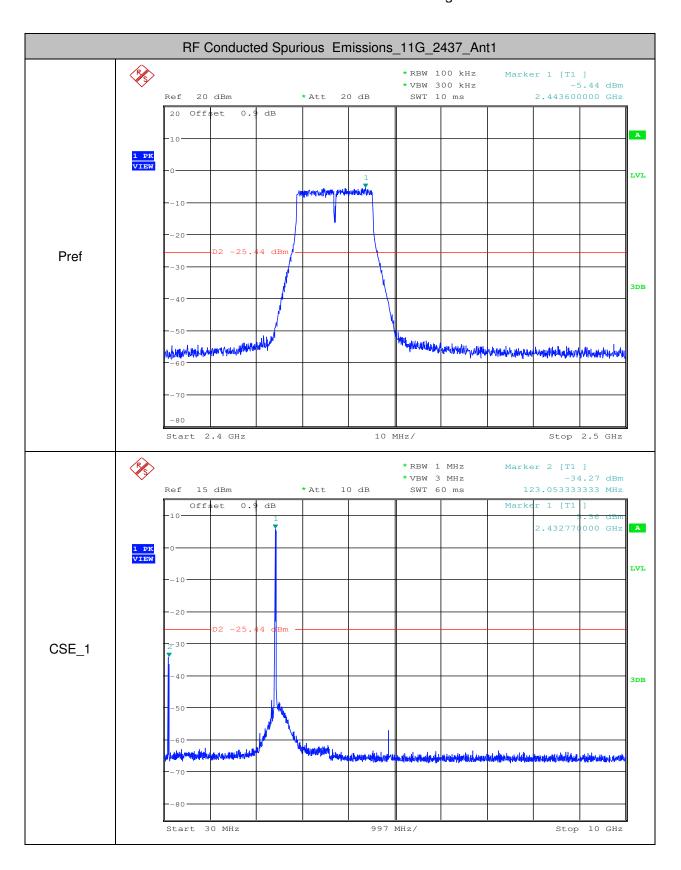
Page: 124 of 136





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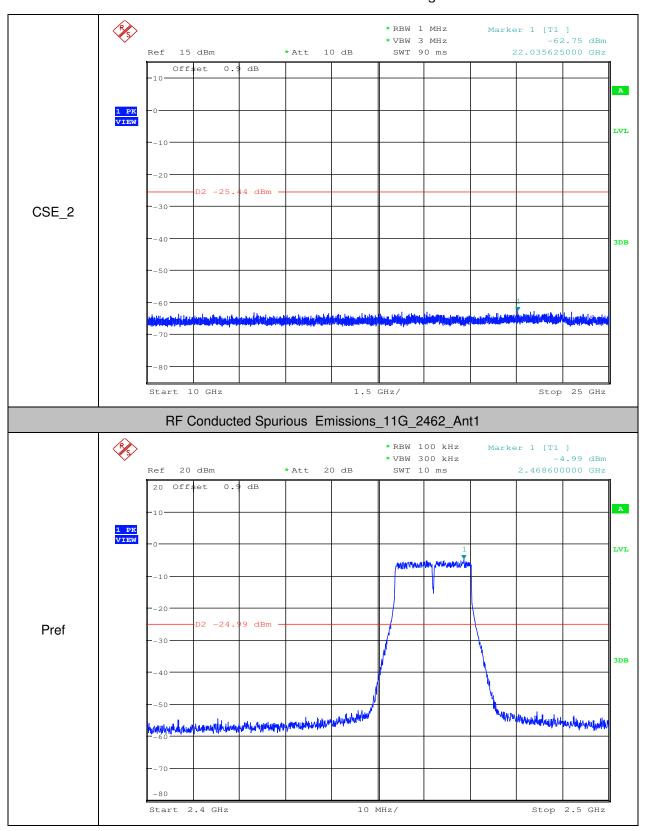
Page: 125 of 136





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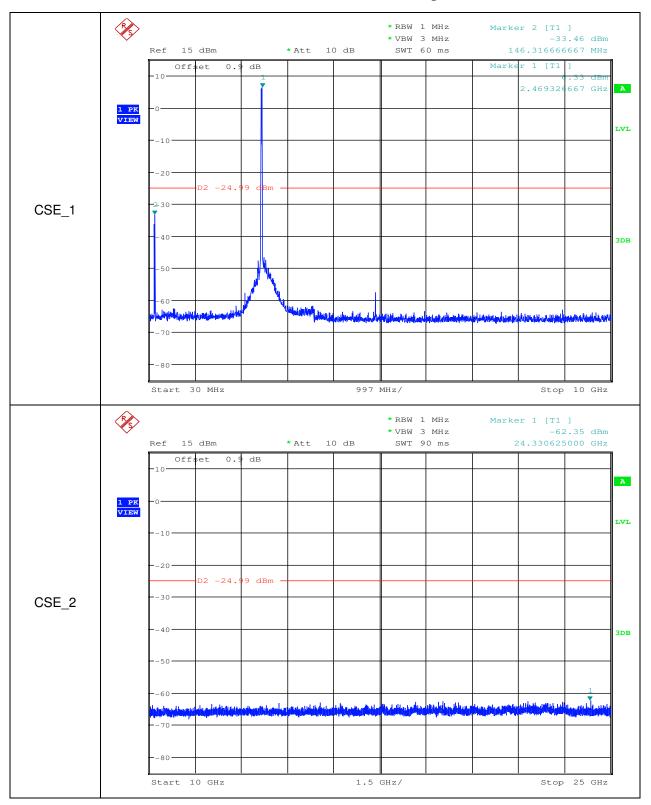
Page: 126 of 136





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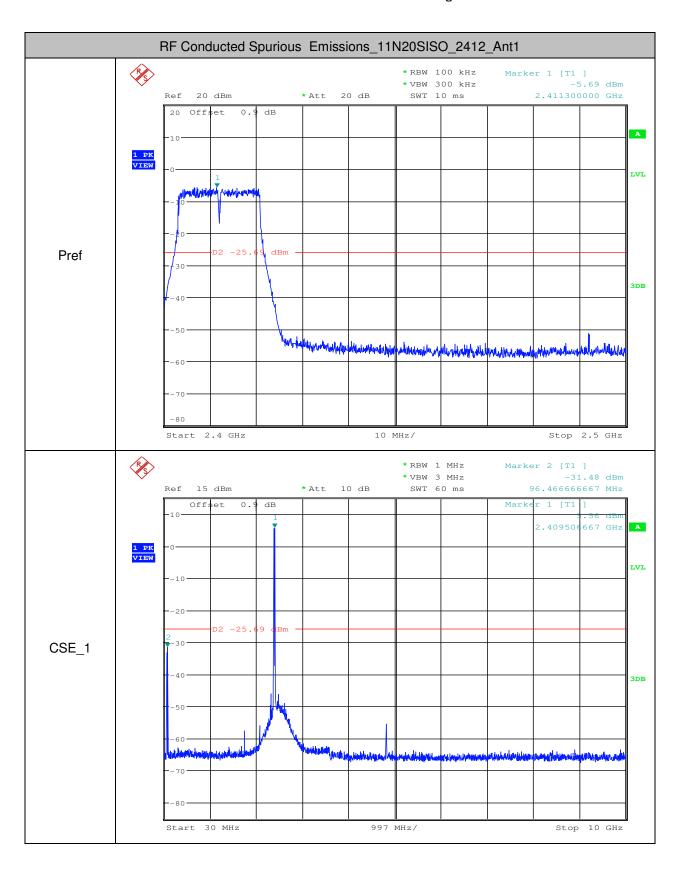
Page: 127 of 136





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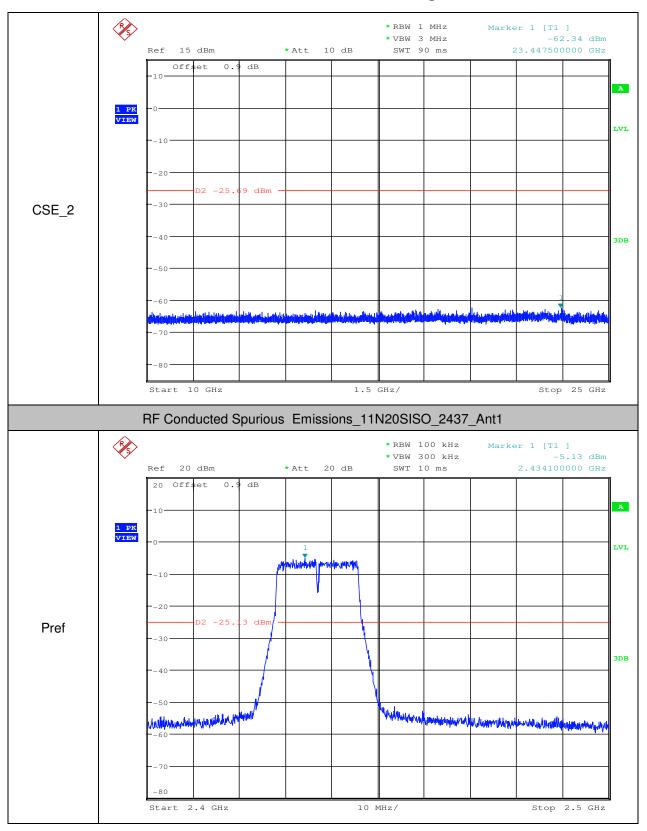
Page: 128 of 136





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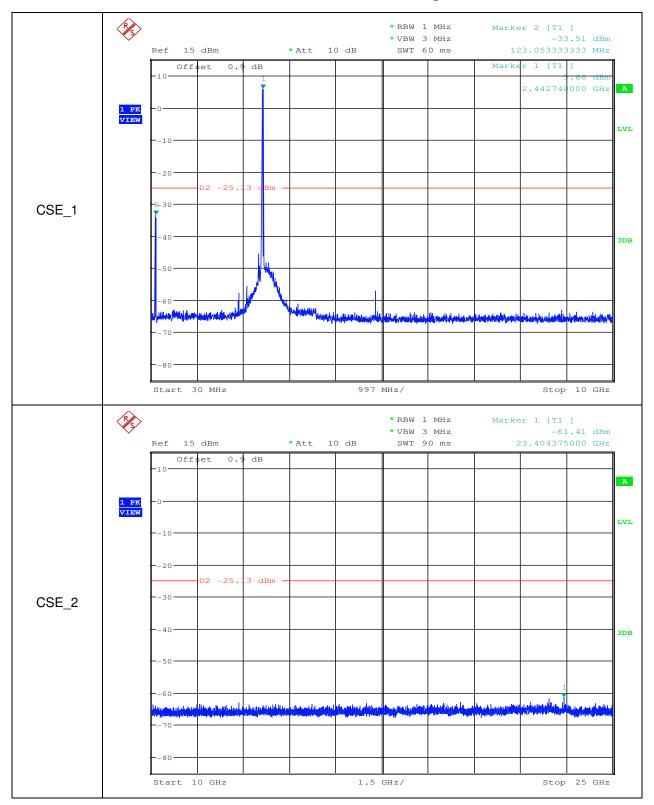
Page: 129 of 136





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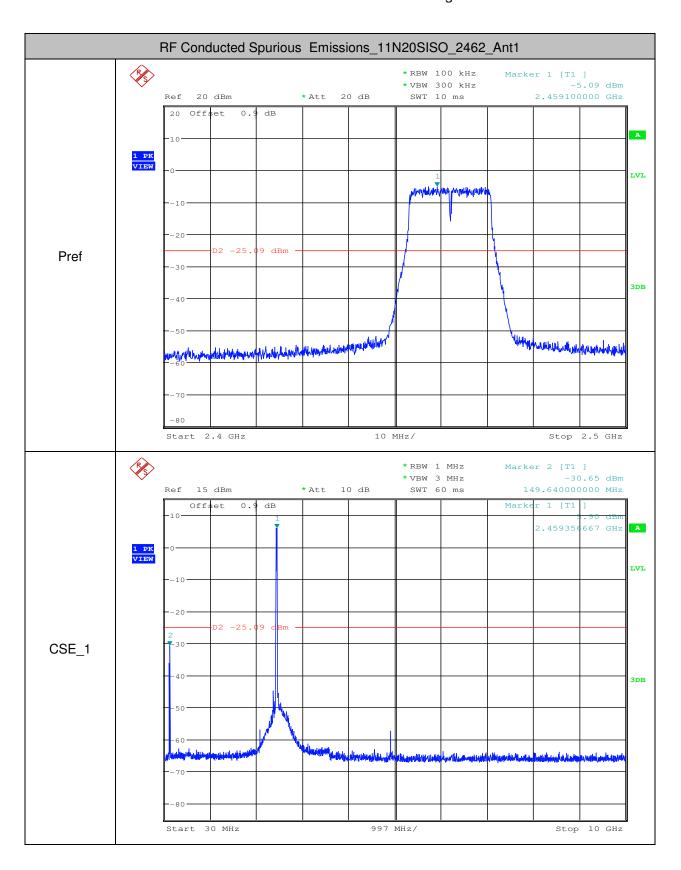
Page: 130 of 136





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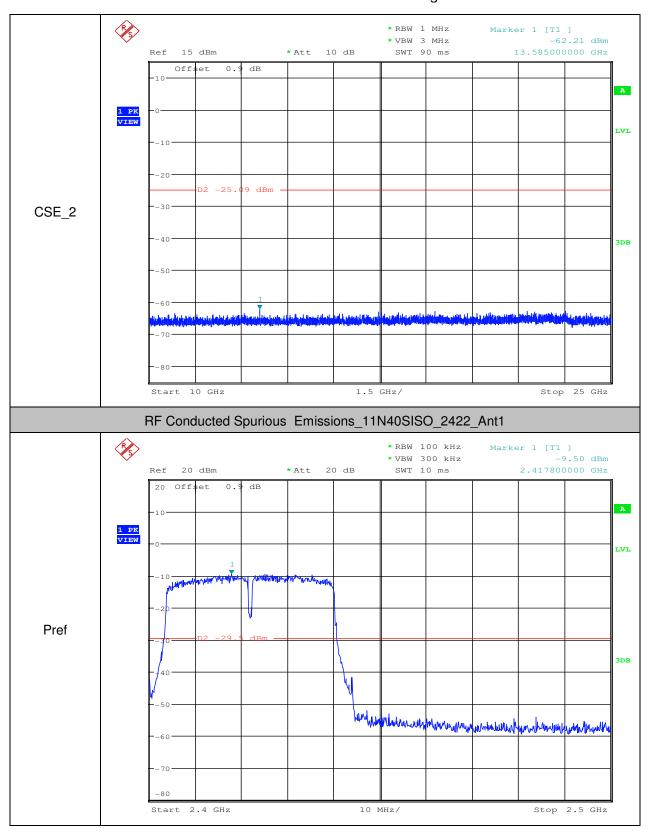
Page: 131 of 136





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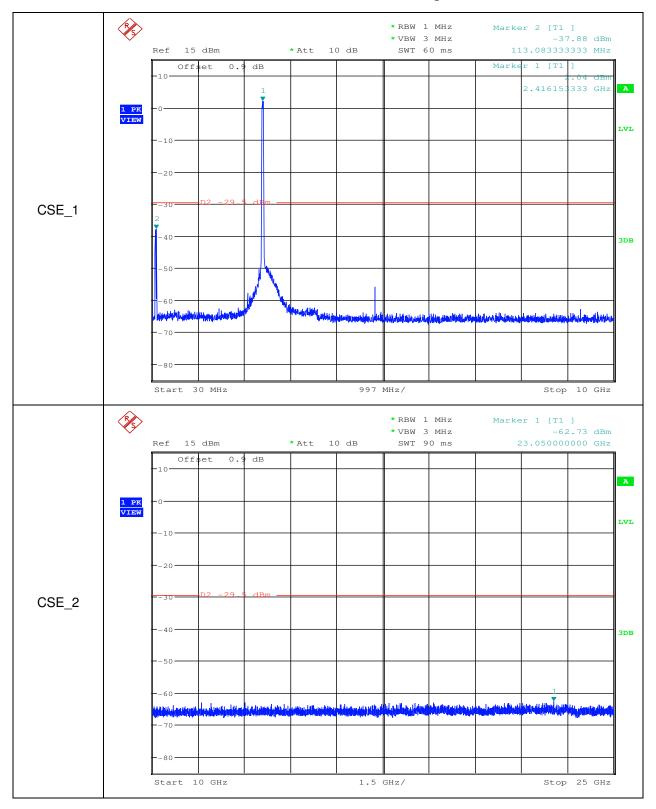
Page: 132 of 136





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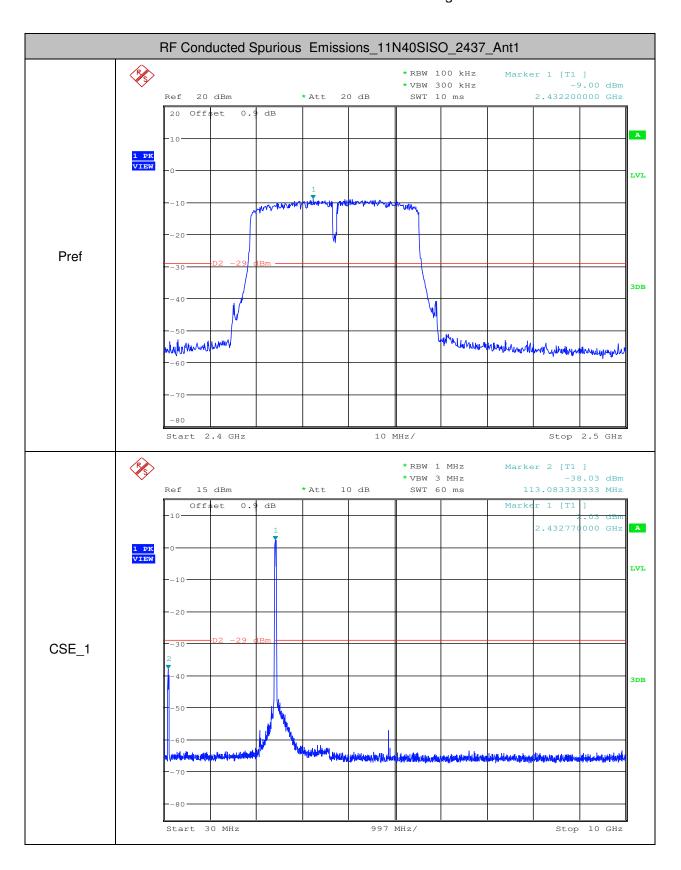
Page: 133 of 136





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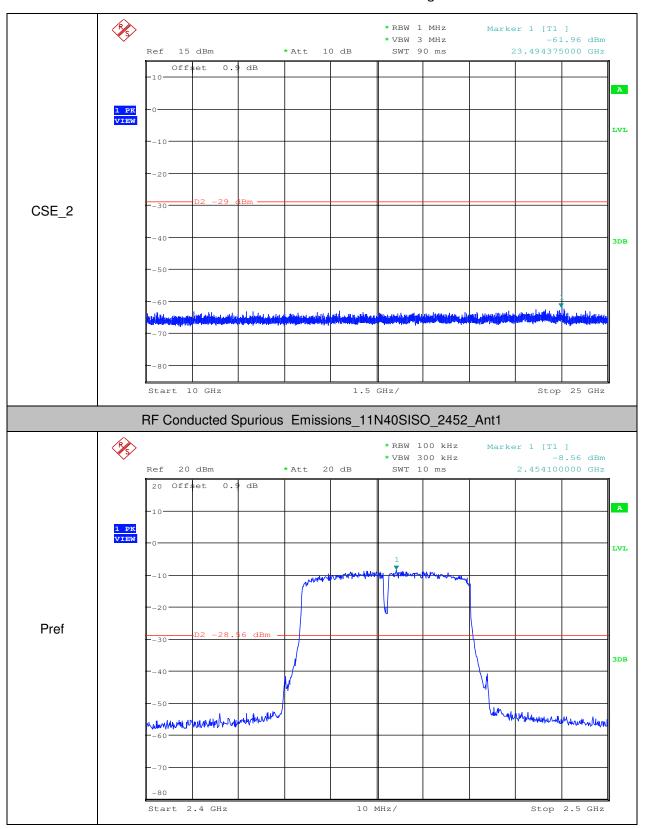
Page: 134 of 136





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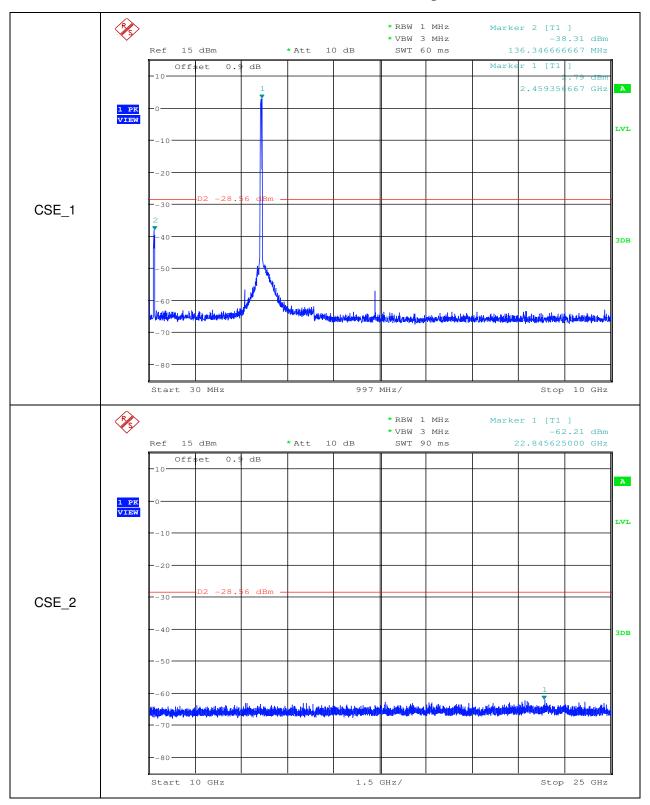
Page: 135 of 136





Report No.: SZEM180100075801

Page: 136 of 136



- End of the Report -