

Report No.: SZEM160400205405

No. 1 Workshop, M-10, Middle section, Science & Technology Park, Nanshan

District, Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594

Email: ee.shenzhen@sgs.com Page: 1 of 109

FCC REPORT

Application No: SZEM1604002054RG

Applicant: Techvision Intelligent Technology Limited

Manufacturer: Medion AG

Factory: ShenZhen Xinwujie Technology Company Limited

Product Name: LIFETAB
Model No.(EUT): PIC A1051.00

Add Model No.: PIC A1051.xx (PIC A1051.xx where x can be number 0 to 9)

Trade Mark: MEDION AG **FCC ID:** 2AHYJA1051

Standards: 47 CFR Part 15, Subpart E (2015)

Date of Receipt: 2016-04-11

Date of Test: 2016-04-13 to 2016-04-24

Date of Issue: 2016-06-13

Test Result: PASS *

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

Authorized Signature:



Jack Zhang 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.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.



Report No.: SZEM160400205405

Page: 2 of 109

2 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
00		2016-06-13		Original

Authorized for issue by:		
Tested By	Hank yan.	2016-04-13
	(Hank yan) /Project Engineer	Date
Prepared By	Joyce Shi	2016-06-13
	(Joyce Shi) /Clerk	Date
Checked By	Eric Fu	2016-06-13
	(Eric Fu) /Reviewer	Date

[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sqs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sqs.com/terms.e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



Report No.: SZEM160400205405

Page: 3 of 109

3 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15 Section 15.203	ANSI C63.10: 2013	PASS
AC Power Line Conducted Emission	47 CFR Part 15 Section 15.407(b)	ANSI C63.10: 2013	PASS
Conducted Output Power	47 CFR Part 15 Section 15.407(a)	ANSI C63.10: 2013	PASS
Equivalent Isotropic Radiated Power (e.i.r.p.)	47 CFR Part 15 Section 15.407(a)	ANSI C63.10: 2013	PASS
6dB Occupied Bandwidth	47 CFR Part 15 Section 15.407(e)	ANSI C63.10: 2013	PASS
26 dB Emission Bandwidth & 99% Occupied Bandwidth	47 CFR Part 15 Section 15.407(a)	ANSI C63.10: 2013	PASS
Power Spectral Density	47 CFR Part 15 Section 15.407(a)	ANSI C63.10: 2013	PASS
Radiated Spurious Emissions	47 CFR Part 15 Section 15.407(b)	ANSI C63.10: 2013	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15 Section 15.407(b)	ANSI C63.10: 2013	PASS
Frequency Stability	47 CFR Part 15 Section 15.407(g)	ANSI C63.10: 2013	PASS



Report No.: SZEM160400205405

Page: 4 of 109

4 Contents

			Page
1	COV	/ER PAGE	1
2	VER	SION	2
3		T SUMMARY	
	_		_
4		ITENTS	
5	GEN	IERAL INFORMATION	5
	5.1	CLIENT INFORMATION	5
	5.2	GENERAL DESCRIPTION OF EUT	
	5.3	TEST ENVIRONMENT AND MODE	
	5.4	DESCRIPTION OF SUPPORT UNITS	
	5.5 5.6	TEST LOCATION	
	5.7	DEVIATION FROM STANDARDS	_
	5.8	ABNORMALITIES FROM STANDARD CONDITIONS	
	5.9	OTHER INFORMATION REQUESTED BY THE CUSTOMER	
	5.10	EQUIPMENT LIST	10
6	TES	T RESULTS AND MEASUREMENT DATA	12
	6.1	ANTENNA REQUIREMENT	12
	6.2	CONDUCTED EMISSIONS	13
	6.3	CONDUCTED OUTPUT POWER.	
	6.4	EQUIVALENT ISOTROPIC RADIATED POWER (E.I.R.P.)	
	6.5 6.6	26DB EMISSION BANDWIDTH AND 99% OCCUPIED BANDWIDTH	
	6.7	RADIATED SPURIOUS EMISSIONS	
	6.7.1		
	6.7.2		65
	6.8	RESTRICTED BANDS AROUND FUNDAMENTAL FREQUENCY	65 75
	-		65 75
7	6.8 6.9	RESTRICTED BANDS AROUND FUNDAMENTAL FREQUENCY	65 75 101
7	6.8 6.9 PHO 7.1	RESTRICTED BANDS AROUND FUNDAMENTAL FREQUENCY FREQUENCY STABILITY TOGRAPHS - EUT TEST SETUP CONDUCTED EMISSION	65 101 108
7	6.8 6.9 PHO	RESTRICTED BANDS AROUND FUNDAMENTAL FREQUENCYFREQUENCY STABILITY	65 101 108



Report No.: SZEM160400205405

Page: 5 of 109

5 General Information

5.1 Client Information

Applicant:	Techvision Intelligent Technology Limited	
Address of Applicant:	5F, No.2 Building, District D, TCL international E City, Nanshan, ShenZhen, China	
Manufacturer:	Medion AG	
Address of Manufacturer:	Am Zehnthof 77 D-45307 Essen.Germany	
Factory:	ShenZhen Xinwujie Technology Company Limited	
Address of Factory:	5-6/F, Building No.3, Hongfa hi-tech industrial park, interchange of Genyu Road and Nanming Road, Guangming New district, ShenZhen City, GuangDong Province P.R. China	

5.2 General Description of EUT

Product Name:	LIFETAB	LIFETAB			
Model No.:	PIC A1051	PIC A1051.00			
Trade Mark:	MEDION A	MEDION AG			
Operation Frequency:	Band	Mode	Frequency Range(MHz)	Number of channels	
	UNII	IEEE 802.11a	5180-5240	4	
	Band I	IEEE 802.11n 20MHz	5180-5240	4	
	UNII	IEEE 802.11a	5260-5320	4	
	Band II-A	IEEE 802.11n 20MHz	5260-5320	4	
	UNII	IEEE 802.11a	5500-5700	11	
	Band II-C	IEEE 802.11n 20MHz	5500-5700	11	
Type of Modulation:		IEEE 802.11a: OFDM(BPSK/QPSK/16QAM/64QAM) IEEE 802.11n: OFDM(BPSK/QPSK/16QAM/64QAM)			
Sample Type:	Portable pr	Portable production			
Antenna Type:	FPCB	FPCB			
Antenna Gain:	1.6dBi	1.6dBi			
Power Supply:	Adaptor:				
	Model: KS/	Model: KSA29B0500200HU			
	Input: AC 1	Input: AC 100~240V, 50/60Hz, 0.5A			
	Output: DC	Output: DC 5.0V, 2.0A			
	Or DC 3.7\	/ Li-ion Battery			
Test Voltage:	DC 3.7V	DC 3.7V			

[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms.e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



Report No.: SZEM160400205405

Page: 6 of 109

Remark:

Model No.: PIC A1051.xx (PIC A1051.xx where x can be number 0 to 9)

Only the model **PIC A1051.00** was tested, since the appearance, circuitry design, PCB layout, electrical components used, internal wiring and functions were identical for the above models.

And the accessories have different colors as below for marketing purpose.

Accessories	Model No.	Color
OTG Cable	ASDA666006	black
	ASDA666007	white
USB Cable	02-GE05-1511002	white
	(MSN 40050707)	
	02-GE05-1511001	black
	(MSN 40050706)	
Charger	KSA29B0500200HU	black & white



Report No.: SZEM160400205405

Page: 7 of 109

Note:

In FCC 15.31, for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table, and the selected channel to perform the test as below:

Frequency Range of Operation Operating Frequency Range (in each Band)	Number of Measurement Frequencies Required	Location of Measurement Frequency in Band of Operation
1 MHz or less	1	centre
1 MHz to 10 MHz	2	1 near high end, 1 near low end
Greater than 10 MHz	3	1 near high end, 1 near centre

For UNII Band I:

Mode	Channel	Frequency(MHz)
IEEE 802.11a/n 20MHz	The Lowest channel	5180
	The Middle channel	5200
	The Highest channel	5240

For UNII Band II-A:

Mode	Channel	Frequency(MHz)
IEEE 802.11a/n 20MHz	The Lowest channel	5260
	The Middle channel	5300
	The Highest channel	5320

For UNII Band II-C:

Mode	Channel	Frequency(MHz)
IEEE 802.11a/n 20MHz	The Lowest channel	5500
	The Middle channel	5600
	The Highest channel	5700

[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



Report No.: SZEM160400205405

Page: 8 of 109

5.3 Test Environment and Mode

Operating Environment:	Operating Environment:		
Temperature:	24.8 °C		
Humidity:	53 % RH		
Atmospheric Pressure:	1016mbar		
Test mode:			
Transmitting mode:	Keep the EUT in transmitting mode with all kind of modulation and all kind of data rate.		

5.4 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Earphone	PHILIPS	SHE6000	REF. No.SEA1000

5.5 Test Location

All tests were performed at:

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

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.



Report No.: SZEM160400205405

Page: 9 of 109

5.6 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 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-823, R-4188, T-1153 and C-2383 respectively.

• FCC - Registration No.: 556682

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 556682.

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.

5.7 Deviation from Standards

None.

5.8 Abnormalities from Standard Conditions

None.

5.9 Other Information Requested by the Customer

None.



Report No.: SZEM160400205405

Page: 10 of 109

5.10 Equipment List

	RE in Chamber (30MHz to 1GHz)							
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	2015-05-13	2016-05-13		
2	EMI Test Receiver	Agilent Technologies	N9038A	SEM004-05	2015-09-16	2016-09-16		
3	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2014-11-01	2017-11-01		
4	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEM003-11	2015-10-17	2018-10-17		
5	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEM005-01	2015-05-13	2016-05-13		
6	Band filter	Amindeon	Asi 3314	SEM023-01	N/A	N/A		
7	DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2015-10-09	2016-10-09		

	RE in Chamber (Above 1GHz)						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm- dd)	Cal.Due date (yyyy-mm- dd)	
1	3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2015-05-13	2016-05-13	
2	EMI Test Receiver	Rohde & Schwarz	ESIB26	SEM004-04	2015-05-13	2016-05-13	
3	BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-02	2014-11-15	2017-11-15	
4	Amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2015-10-09	2016-10-09	
5	Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2015-06-14	2018-06-14	
6	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEM003-12	2014-11-24	2017-11-24	
7	Low Noise Amplifier	Black Diamond Series	BDLNA- 0118- 352810	SEM005-05	2015-10-09	2016-10-09	
8	Band filter	Amindeon	Asi 3314	SEM023-01	N/A	N/A	



Report No.: SZEM160400205405

Page: 11 of 109

	Conducted Emission	1				
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
1	Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2015-05-13	2016-05-13
2	LISN	Rohde & Schwarz	ENV216	SEM007-01	2015-10-09	2016-10-09
3	LISN	ETS-LINDGREN	3816/2	SEM007-02	2015-05-13	2016-05-13
4	8 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN- T8-02	EMC0120	2015-08-30	2016-08-30
5	4 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN- T4-02	EMC0121	2015-08-30	2016-08-30
6	2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN- T2-02	EMC0122	2015-08-30	2016-08-30
7	EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2015-05-13	2016-05-13
8	DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2015-10-09	2016-10-09

	RF connected test					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
1	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2015-10-09	2016-10-09
2	Humidity/ Temperature Indicator	HYGRO	ZJ1-2B	SEL0033	2015-10-24	2016-10-24
3	Spectrum Analyzer	Rohde & Schwarz	FSP	SEL0154	2015-10-17	2016-10-17
4	Coaxial cable	SGS	N/A	SEL0178	2015-05-13	2016-05-13
5	Coaxial cable	SGS	N/A	SEL0179	2015-05-13	2016-05-13
6	Barometer	ChangChun	DYM3	SEL0088	2015-05-13	2016-05-13
7	Signal Generator	Rohde & Schwarz	SML03	SEL0068	2015-05-13	2016-05-13
8	Power Meter	R&S	NRVS	SEL0144	2015-10-09	2016-10-09
9	Attenuator	Beijin feihang taida	TST-2-6dB	SEL0205	2015-05-13	2016-05-13

[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sqs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sqs.com/terms.e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



Report No.: SZEM160400205405

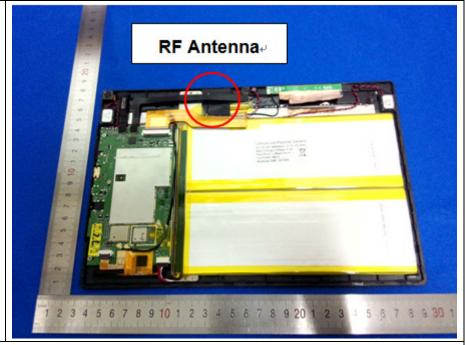
Page: 12 of 109

6 Test results and Measurement Data

6.1 Antenna Requirement

Test Requirement: 47 CFR Part 15 Section 15.203

EUT Antenna:



The antenna is integrated on the main FPCB and no consideration of replacement. The best case gain of the antenna is 1.6dBi.



Report No.: SZEM160400205405

Page: 13 of 109

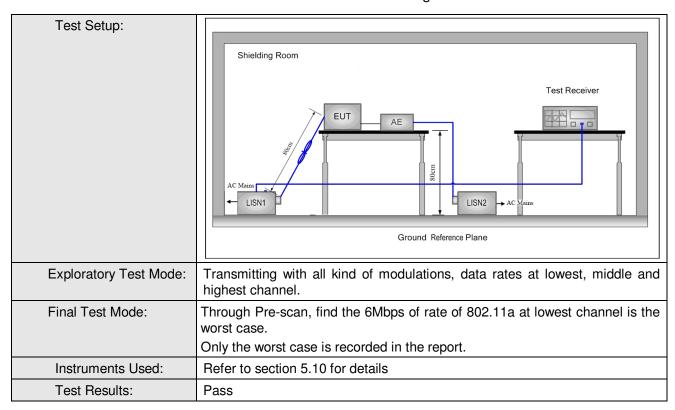
6.2 Conducted Emissions

Test Requirement:	47 CFR Part 15 Section 15.407(b)					
Test Method:	ANSI C63.10: 2013					
Test Frequency Range:	150kHz to 30MHz					
Limit:	F (A.411-)	Limit (c	dBuV)			
	Frequency range (MHz)	Quasi-peak	Average			
	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	5-30	60	50			
	* Decreases with the logarithm	n of the frequency.		1		
Test Procedure:	 The mains terminal disturbation. The EUT was connected to Impedance Stabilization Not impedance. The power call connected to a second reference plane in the same way as a multiple socket outlet strip a single LISN provided the reasonable of the test was performed with of the EUT shall be 0.4 meaning of the EUT shall be 0.4 meaning the EUT shall be 0.4 meaning the EUT and associated end between the closest points the EUT and associated end in order to find the maximum equipment and all of the in ANSI C63.10: 2013 on contract the EUT and contractions. 	cance voltage test was cance voltage test was cance voltage test was cance voltage test was cancer of all other units of LISN 2, which was the LISN 1 for the unit of was used to connect ating of the LISN was not be upon a non-metallished upon a non-metallished for floor-standing arround reference plane, the a vertical ground reference plane was bonded to the standard of the LISN 1 and the quipment was at least of the LISN 1 and the quipment was at least of the units of the relative terface cables must be	bugh a LISN 1 (Line is a 50Ω/50μH + 5Ω line is a 50Ω/50μH + 5Ω line if the EUT were bonded to the growth being measured. A multiple power cable into exceeded. In the case of	near bund es to ne was ar ne he		



Report No.: SZEM160400205405

Page: 14 of 109



Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

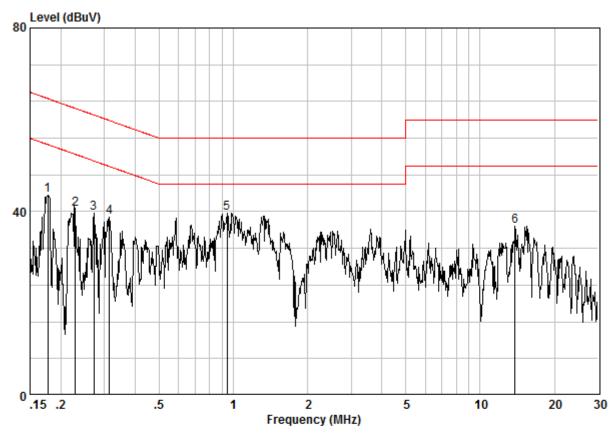
Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



Report No.: SZEM160400205405

Page: 15 of 109

Live Line:



Site : Shielding Room Condition : CE LINE Job No. : 2054RG

Test Mode : Charge+TX mode

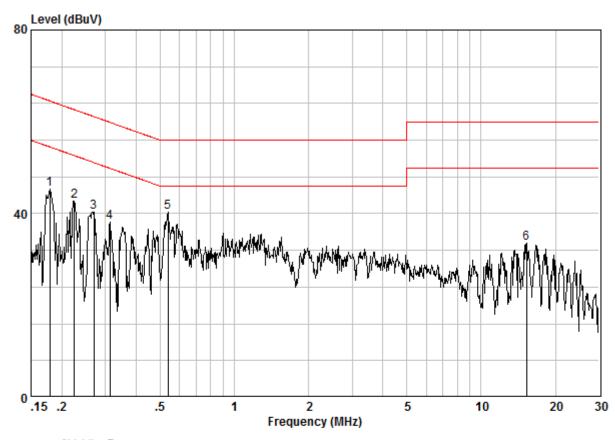
	Freq		LISN Factor			Limit Line		Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.17678	0.02	9.61	34.01	43.64	54.64	-11.00	Peak
2	0.22918	0.02	9.61	31.00	40.63	52.48	-11.85	Peak
3	0.27152	0.01	9.61	30.10	39.73	51.07	-11.34	Peak
4	0.31495	0.01	9.62	29.27	38.90	49.84	-10.94	Peak
5	0.94308	0.02	9.64	30.01	39.66	46.00	-6.34	Peak
6	13.841	0.01	9.88	27.04	36.93	50.00	-13.07	Peak



Report No.: SZEM160400205405

Page: 16 of 109

Neutral Line:



Site : Shielding Room
Condition : CE NEUTRAL
Job No. : 2054RG
Test Mode : Charge+TX mode

			LISN					D1-
	rreq	Loss	Factor	revel	revel	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.17866	0.02	9.61	35.62	45.24	54.55	-9.31	Peak
2	0.22437	0.02	9.62	33.04	42.67	52.66	-9.98	Peak
3	0.27009	0.01	9.61	30.78	40.41	51.12	-10.71	Peak
4	0.31328	0.01	9.62	28.55	38.18	49.88	-11.70	Peak
5 @	0.53782	0.01	9.63	30.64	40.28	46.00	-5.72	Peak
6	15.307	0.02	9.91	23.58	33.50	50.00	-16.50	Peak

Notes:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.



Report No.: SZEM160400205405

Page: 17 of 109

6.3 Conducted Output Power

Test Requirement:	47 CFR Part 15 S	ection 15.407(a)		
Test Method:	ANSI C63.10: 201	ANSI C63.10: 2013		
Test Setup:	Spectrum Remark: Offset the High-Fi	Analyzer E.U.T Non-Conducted Table Ground Reference Plane requency cable loss 1.5dB in the spectrum analyzer.		
Test Procedure:		3.10 Section 12.3.2.2		
Test Instruments:	Refer to section 5.	10 for details		
Exploratory Test Mode:	Transmitting with a	all kind of modulations, data rates		
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20); Only the worst case is recorded in the report.			
Limit:	Frequency Band	Limit		
	5150-5250MHz	Not exceed 250mW(24dBm)		
	5250-5350MHz	The lesser of 250mW(24dBm) or 11+ 10logB		
	5470-5725MHz	The lesser of 250mW(24dBm) or 11+ 10logB		
	5725-5850MHz	Not exceed 1W(30dBm)		
	*Where B is the 2	6dB emission bandwidth in MHz		
Test Results:	Pass			

[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



Report No.: SZEM160400205405

Page: 18 of 109

Measurement Data:

802.11a mode							
Frequency (MHz)	Conducted Output Power (dBm)	Limit (dBm)	Result				
5180	8.42	24.00	Pass				
5200	8.12	24.00	Pass				
5240	7.88	24.00	Pass				
5260	7.90	24.00	Pass				
5300	7.32	24.00	Pass				
5320	7.15	24.00	Pass				
5500	6.34	24.00	Pass				
5600	7.33	24.00	Pass				
5700	6.47	24.00	Pass				

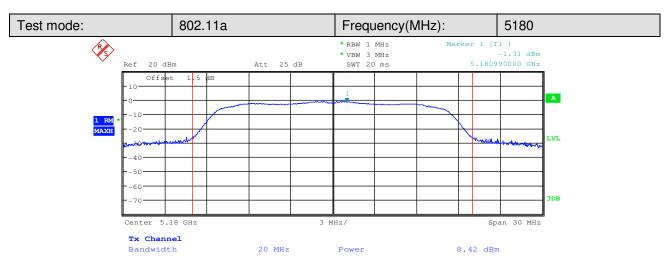
802.11n(HT20) mode						
Frequency (MHz)	Conducted Output Power (dBm)	Limit (dBm)	Result			
5180	7.08	24.00	Pass			
5200	6.87	24.00	Pass			
5240	6.69	24.00	Pass			
5260	6.75	24.00	Pass			
5300	6.06	24.00	Pass			
5320	5.74	24.00	Pass			
5500	5.23	24.00	Pass			
5600	6.19	24.00	Pass			
5700	5.55	24.00	Pass			

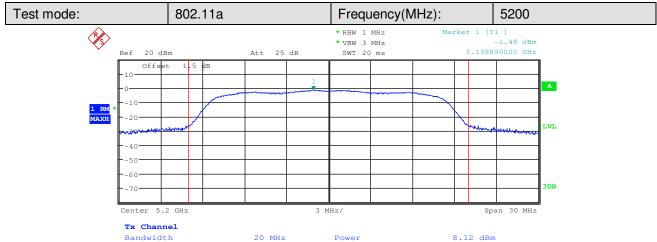


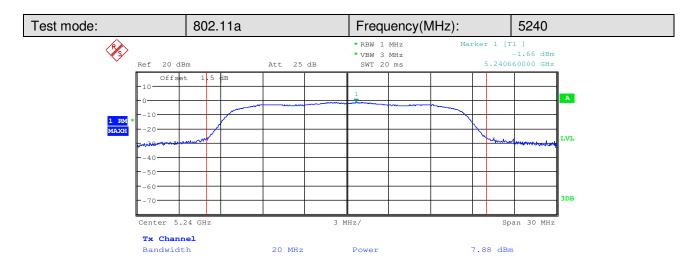
Report No.: SZEM160400205405

Page: 19 of 109

Test plot as follows:



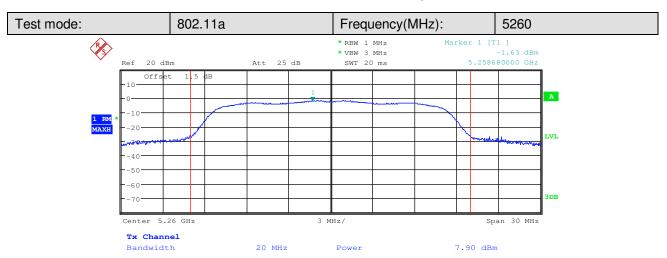


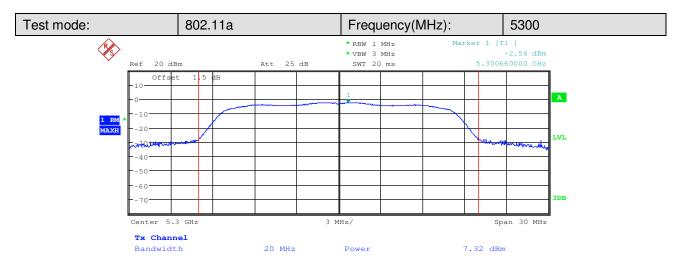


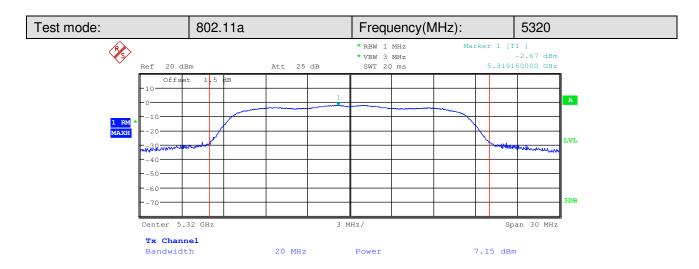


Report No.: SZEM160400205405

Page: 20 of 109



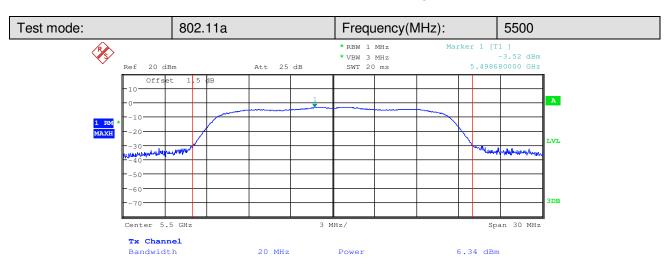


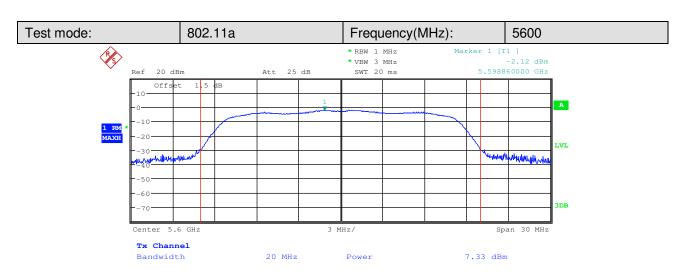


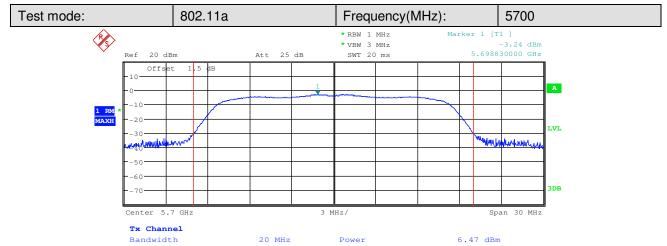


Report No.: SZEM160400205405

Page: 21 of 109



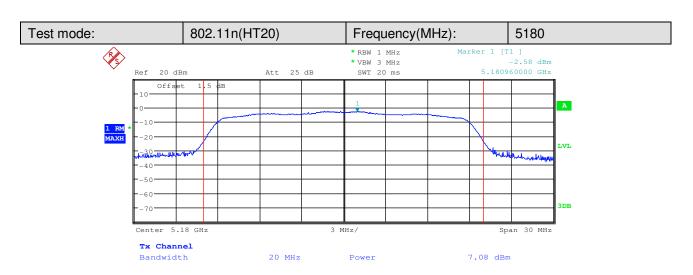


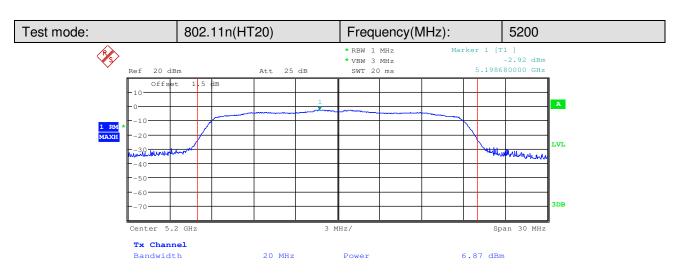


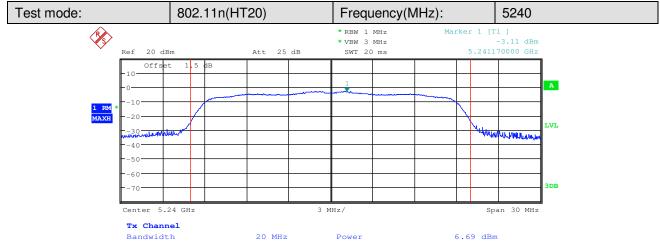


Report No.: SZEM160400205405

Page: 22 of 109



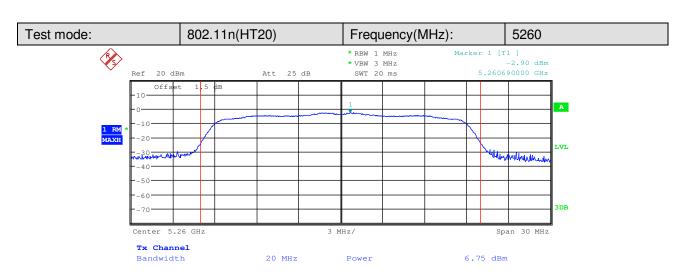


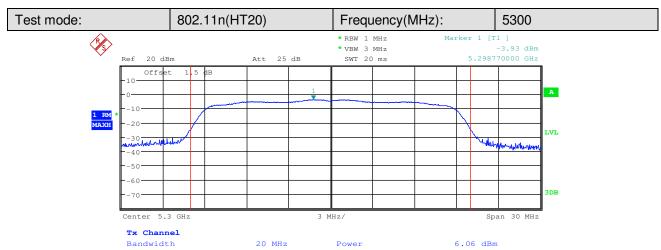


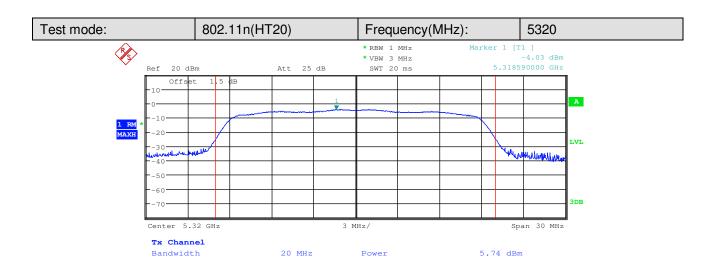


Report No.: SZEM160400205405

Page: 23 of 109



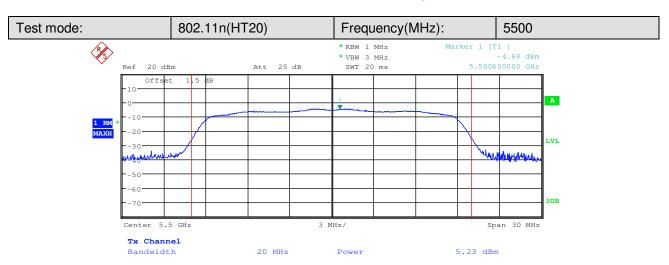


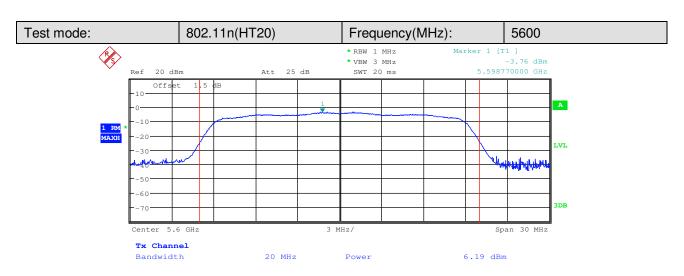


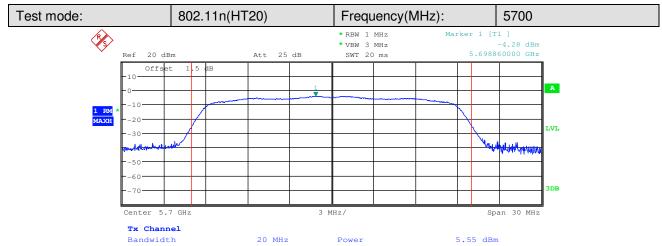


Report No.: SZEM160400205405

Page: 24 of 109









Report No.: SZEM160400205405

Page: 25 of 109

6.4 Equivalent Isotropic Radiated Power (e.i.r.p.)

Test Requirement:	47 CFR Part 15 Sect	ion 15.407(a)	
Test Method:	ANSI C63.10: 2013		
Test Setup:	Gr Remark:	E.U.T Con-Conducted Table ound Reference Plane uency cable loss 1.5dB in the spectrum analyzer.	
Test Instruments:	Refer to section 5.10	for details	
Exploratory Test Mode:	Transmitting with all k	ind of modulations, data rates	
Final Test Mode:	Through Pre-scan, fir MCS0 of rate is the w	nd the 6Mbps of rate is the worst case of 802.11a; Forst case of 802.11n(HT20) Is recorded in the report.	
Limit:	Frequency Band	Limit	
	5150-5250MHz	4W(36dBm) with 6dBi antenna	
	5250-5350MHz	1W(30dBm) with 6dBi antenna	
	5470-5725MHz 1W(30dBm) with 6dBi antenna		
	5725-5850MHz	4W(36dBm) with 6dBi antenna	
	*The limit =the maxim	um output conducted power limit+ actual antenna gain	
Test Results:	Pass		

[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



Report No.: SZEM160400205405

Page: 26 of 109

Measurement Data:

802.11a mode				
Frequency (MHz)	EIRP (dBm)	Limit (dBm) Resul		
5180	8.12	36	Pass	
5200	7.82	36 Pas		
5240	7.58	36	Pass	
5260	7.60	30	Pass	
5300	7.02	30	Pass	
5320	6.85	30	30 Pass	
5500	6.04	30	Pass	
5600	7.03	30	Pass	
5700	6.17	30	Pass	

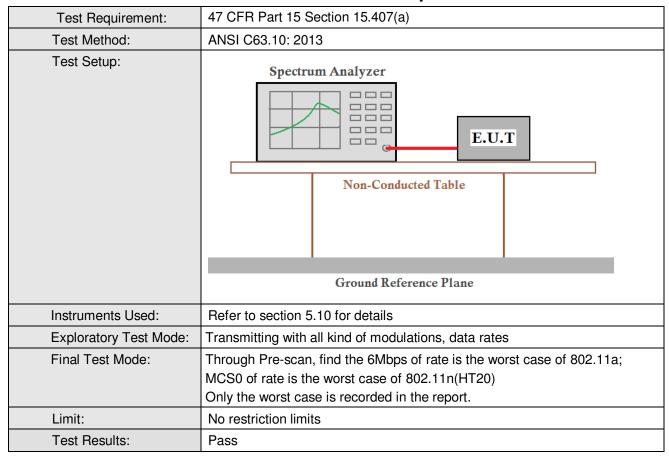
802.11n(HT20) mode				
Frequency (MHz)	EIRP (dBm)	Limit (dBm) Resul		
5180	6.78	36	Pass	
5200	6.57	36	Pass	
5240	6.39	36	Pass	
5260	6.45	30	Pass	
5300	5.76	30	Pass	
5320	5.44	30	Pass	
5500	4.93	30	Pass	
5600	5.89	30	Pass	
5700	5.25	30	Pass	



Report No.: SZEM160400205405

Page: 27 of 109

6.5 26dB Emission Bandwidth and 99% Occupied Bandwidth



[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms.e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



Report No.: SZEM160400205405

Page: 28 of 109

Measurement Data:

802.11a mode				
Frequency (MHz)	26dB Emission Bandwidth (MHz)	99% Occupied Bandwidth (MHz)		
5180	19.54	16.38		
5200	22.32	16.41		
5240	20.72	16.41		
5260	19.86	16.41		
5300	19.22	16.38		
5320	18.90	16.38		
5500	18.59	16.35		
5600	18.59	16.35		
5700	18.51	16.35		

802.11n(HT20) mode				
Frequency (MHz)	26dB Emission Bandwidth (MHz)	99% Occupied Bandwidth (MHz)		
5180	19.14	17.52		
5200	18.97	17.52		
5240	18.97	17.52		
5260	18.97	17.52		
5300	18.93	17.52		
5320	18.90	17.52		
5500	18.92	17.49		
5600	18.92	17.49		
5700	18.90	17.49		



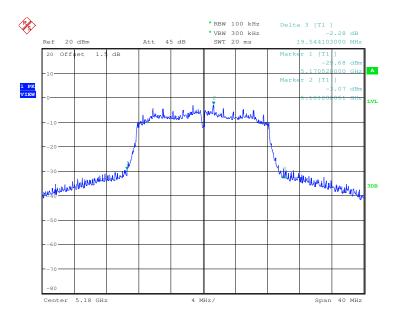
Report No.: SZEM160400205405

Page: 29 of 109

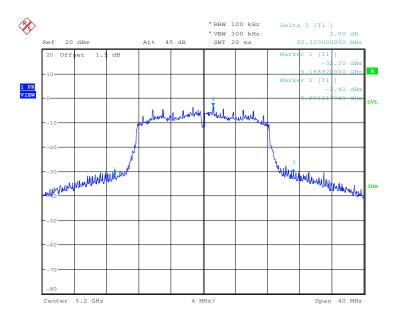
26dB Emission Bandwidth

Test plot as follows:

Test mode: 80	302.11a	Frequency(MHz):	5180
---------------	---------	-----------------	------



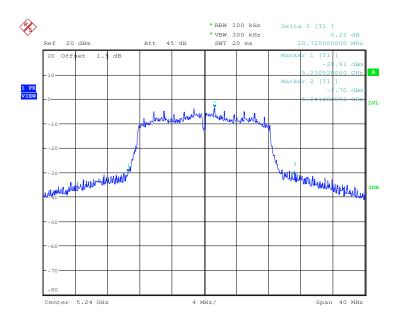




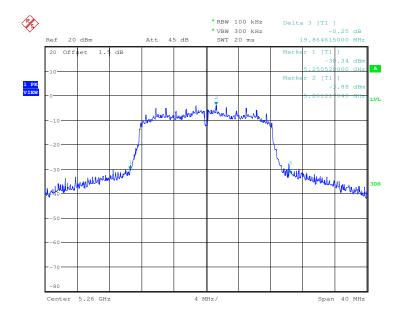


Report No.: SZEM160400205405

Page: 30 of 109





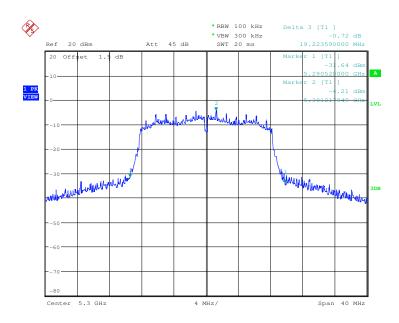


[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms.e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."

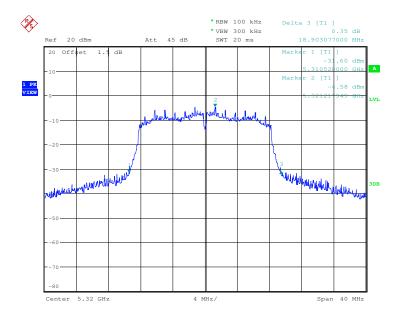


Report No.: SZEM160400205405

Page: 31 of 109





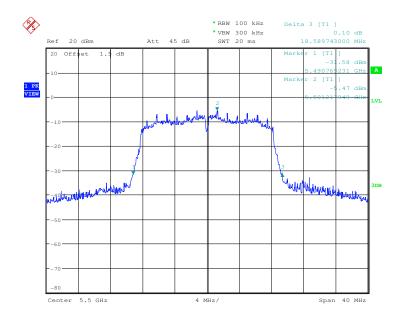


[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."

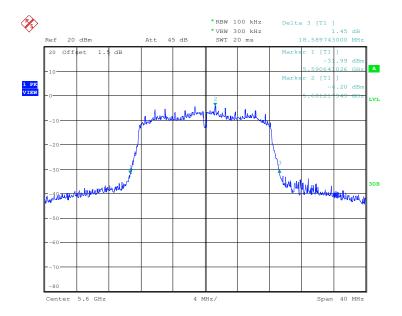


Report No.: SZEM160400205405

Page: 32 of 109





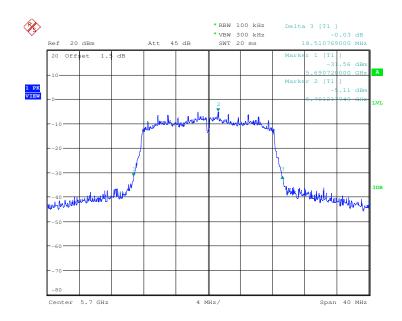


[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



Report No.: SZEM160400205405

Page: 33 of 109

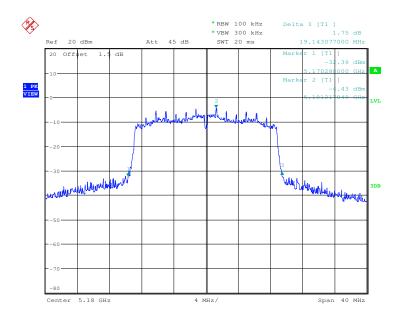




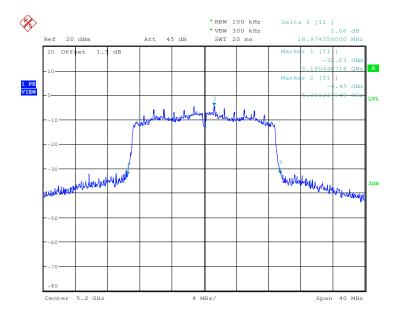
Report No.: SZEM160400205405

Page: 34 of 109

Test mode: 802.11n(HT20) Frequency(MHz): 5180





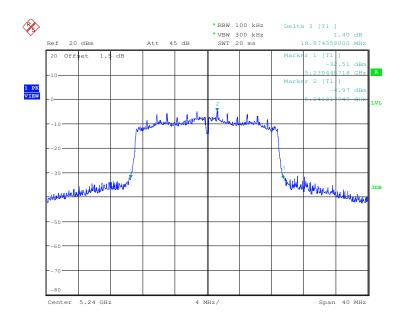




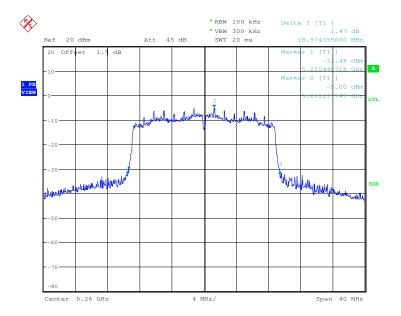
Report No.: SZEM160400205405

Page: 35 of 109

Test mode: 802.11n(HT20) Frequency(MHz): 5240







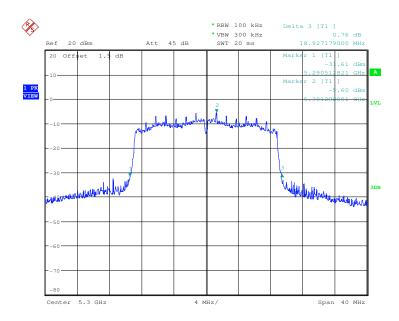
[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



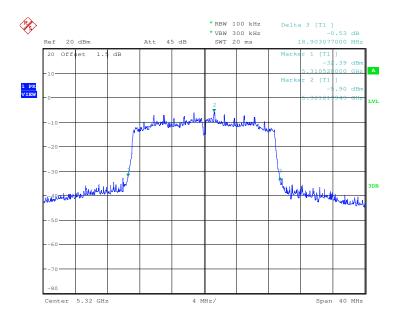
Report No.: SZEM160400205405

Page: 36 of 109

Test mode: 802.11n(HT20) Frequency(MHz): 5300





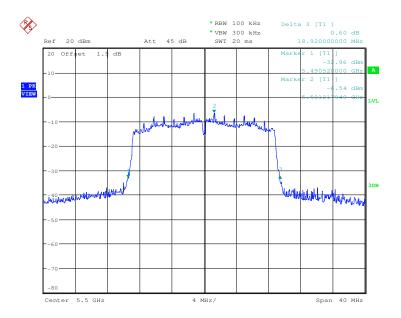


[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."

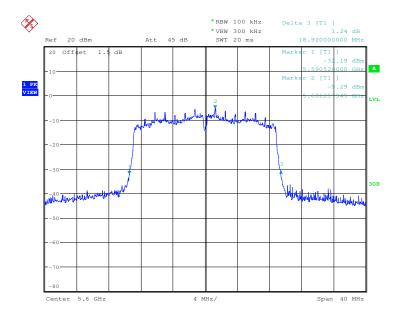


Report No.: SZEM160400205405

Page: 37 of 109





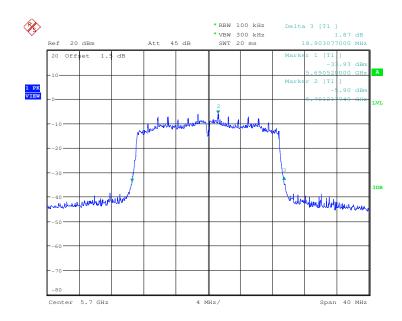


[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms.e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



Report No.: SZEM160400205405

Page: 38 of 109





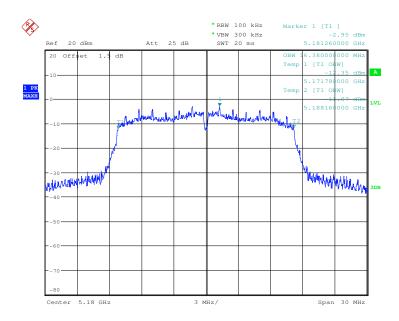
Report No.: SZEM160400205405

Page: 39 of 109

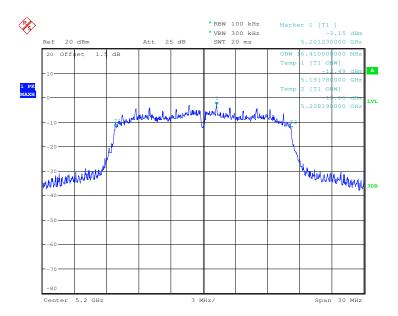
99% occupied bandwidth

Test plot as follows:

Test mode:	802.11a	Frequency(MHz):	5180
1 001 1110401	00 <u>2</u> a	1 10quo110	0.00





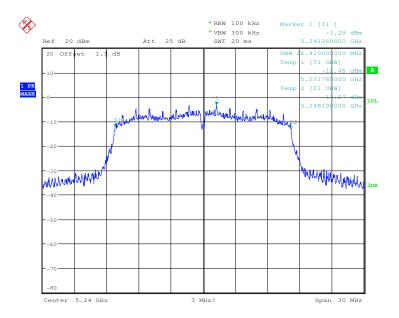


"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."

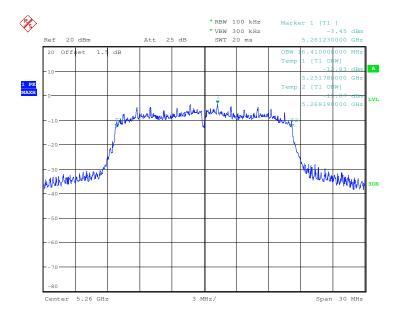


Report No.: SZEM160400205405

Page: 40 of 109





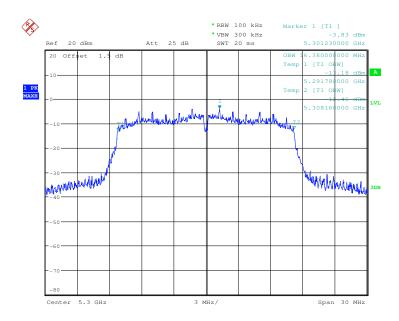


[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."

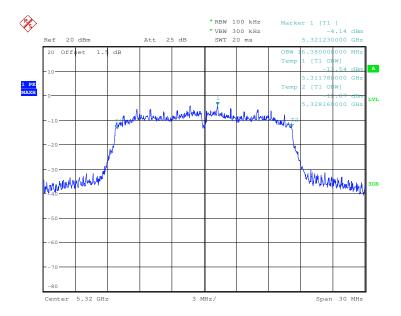


Report No.: SZEM160400205405

Page: 41 of 109





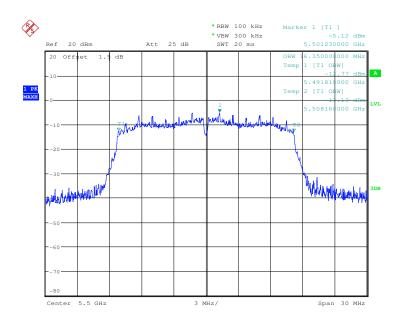


[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."

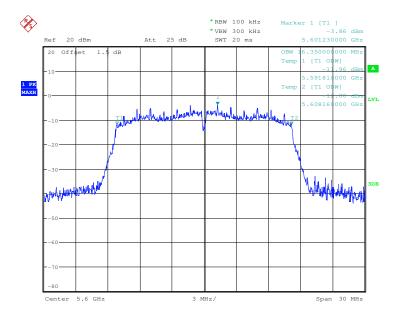


Report No.: SZEM160400205405

Page: 42 of 109





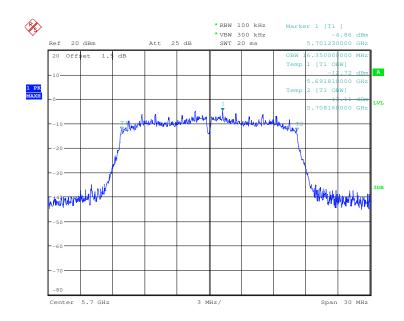


[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms.e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



Report No.: SZEM160400205405

Page: 43 of 109

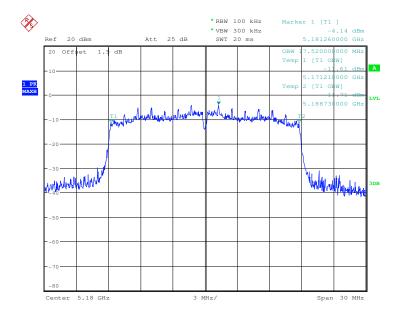


[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms.e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."

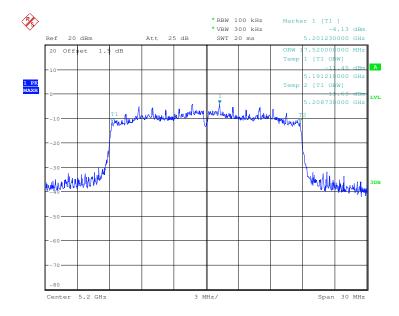


Report No.: SZEM160400205405

Page: 44 of 109





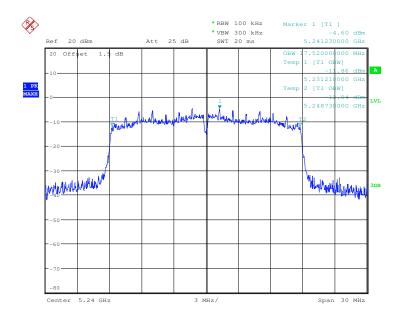


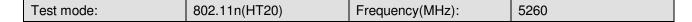
[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms.e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."

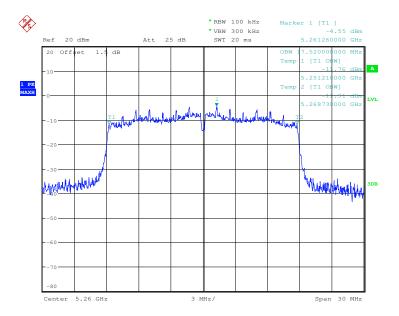


Report No.: SZEM160400205405

Page: 45 of 109





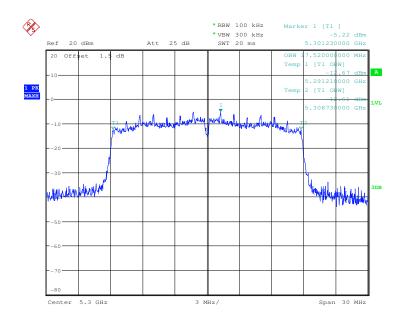


[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."

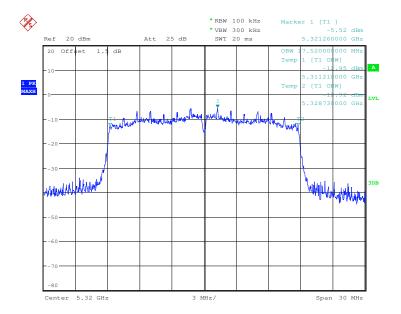


Report No.: SZEM160400205405

Page: 46 of 109





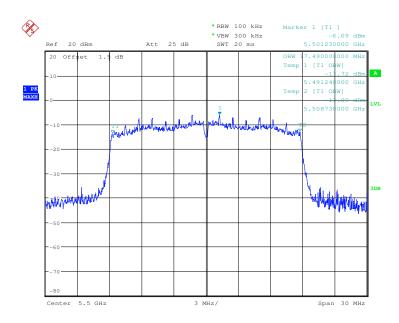


[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms.e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."

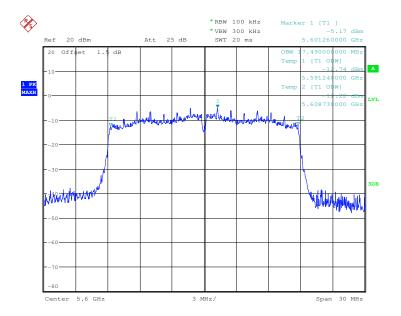


Report No.: SZEM160400205405

Page: 47 of 109





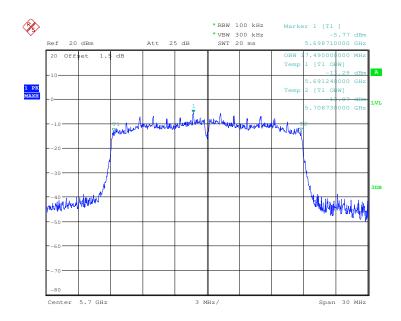


[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



Report No.: SZEM160400205405

Page: 48 of 109





Report No.: SZEM160400205405

Page: 49 of 109

6.6 Power Spectral Density

Test Requirement:	47 CFR Part 15 Secti	ion 15.407(a)		
Test Method:	ANSI C63.10: 2013	(-)		
Test Setup:	Spectrum Ana N Gre Remark:	E.U.T Con-Conducted Table ound Reference Plane Dency cable loss 1.5dB in the spectrum analyzer.		
Test Procedure:	Refer to ANSI C63.10 Section 12.5			
Test Instruments:	Refer to section 5.10	for details		
Exploratory Test Mode:	Transmitting with all k	ind of modulations, data rates		
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20); Only the worst case is recorded in the report.			
Limit:	Frequency Band	Limit		
	5150-5250MHz	The power spectral density less than 11dBm/1MHz		
	5250-5350MHz	The power spectral density less than 11dBm/1MHz		
	5470-5725MHz	The power spectral density less than 11dBm/1MHz		
	5725-5850MHz	The power spectral density less than 30dBm/500kHz		
Test Results:	Pass			

[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



Report No.: SZEM160400205405

Page: 50 of 109

Measurement Data:

	802.11a mode							
Frequency (MHz)	Power Spectral Density	Limit	Result					
5180	-1.85	≤11dBm/1MHz	Pass					
5200	-1.89	≤11dBm/1MHz	Pass					
5240	-2.25	≤11dBm/1MHz	Pass					
5260	-2.38	≤11dBm/1MHz	Pass					
5300	-2.89	≤11dBm/1MHz	Pass					
5320	-2.98	≤11dBm/1MHz	Pass					
5500	-4.00	≤11dBm/1MHz	Pass					
5600	-2.83	≤11dBm/1MHz	Pass					
5700	-3.51	≤11dBm/1MHz	Pass					

802.11n(HT20) mode							
Frequency (MHz)	Power Spectral Density	Limit	Result				
5180	-3.23	≤11dBm/1MHz	Pass				
5200	-3.30	≤11dBm/1MHz	Pass				
5240	-3.67	≤11dBm/1MHz	Pass				
5260	-3.51	≤11dBm/1MHz	Pass				
5300	-4.33	≤11dBm/1MHz	Pass				
5320	-4.60	≤11dBm/1MHz	Pass				
5500	-5.17	≤11dBm/1MHz	Pass				
5600	-4.00	≤11dBm/1MHz	Pass				
5700	-4.76	≤11dBm/1MHz	Pass				

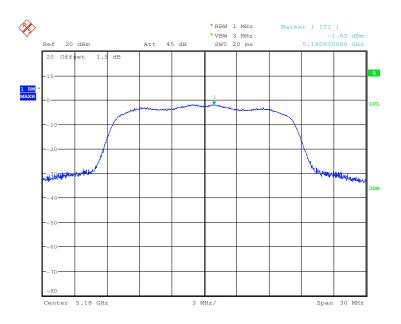
[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sqs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sqs.com/terms.e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



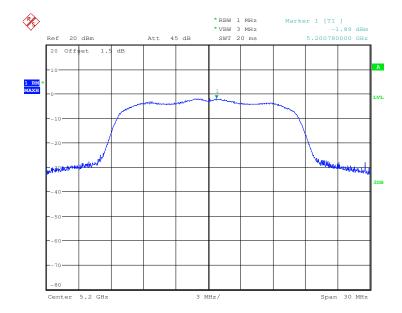
Report No.: SZEM160400205405

Page: 51 of 109

Test plot as follows:





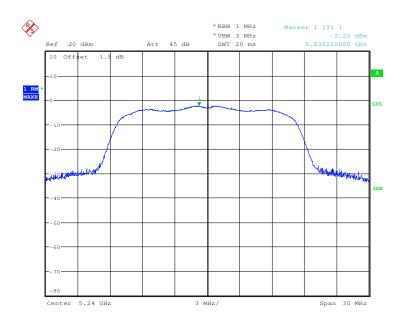


[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."

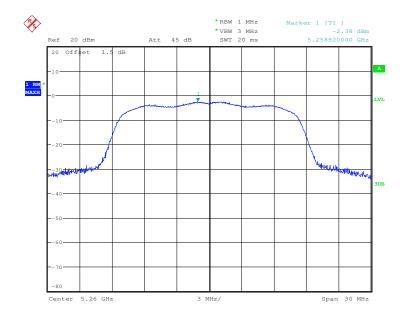


Report No.: SZEM160400205405

Page: 52 of 109





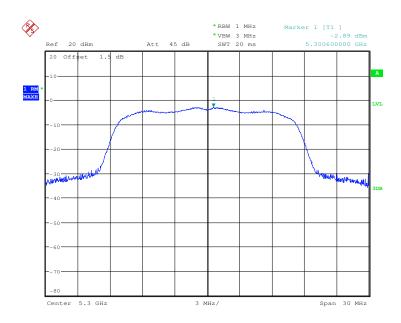


[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."

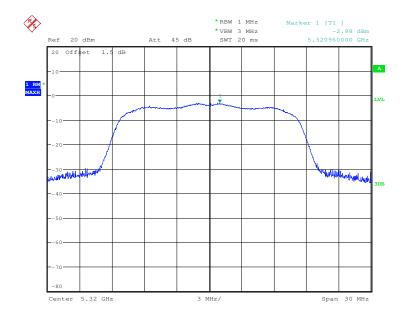


Report No.: SZEM160400205405

Page: 53 of 109





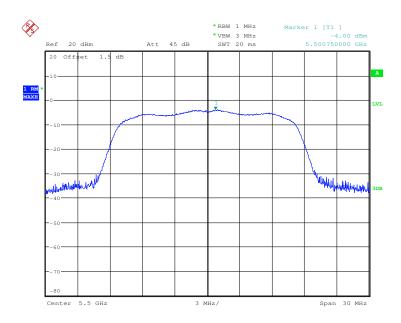


[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."

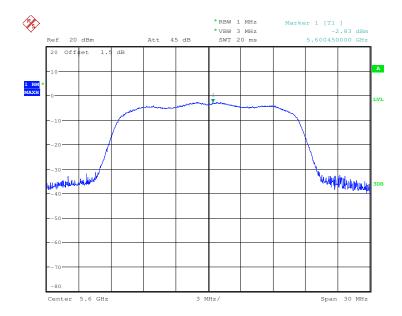


Report No.: SZEM160400205405

Page: 54 of 109





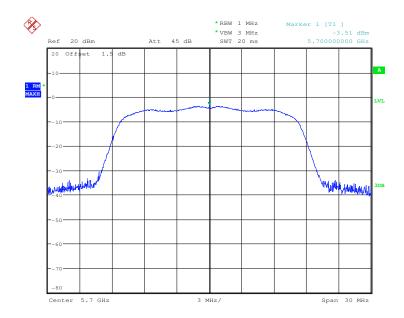


[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



Report No.: SZEM160400205405

Page: 55 of 109

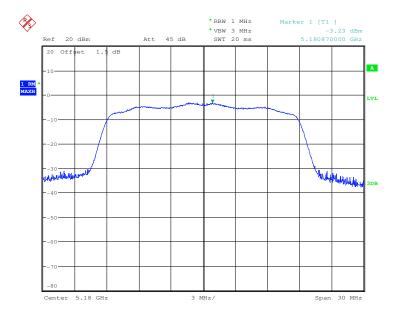


[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms.e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."

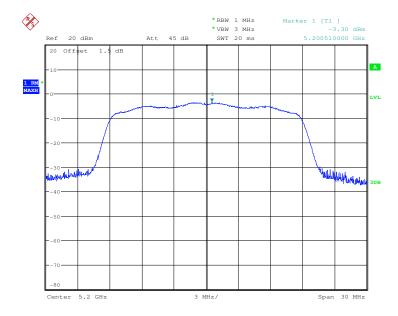


Report No.: SZEM160400205405

Page: 56 of 109





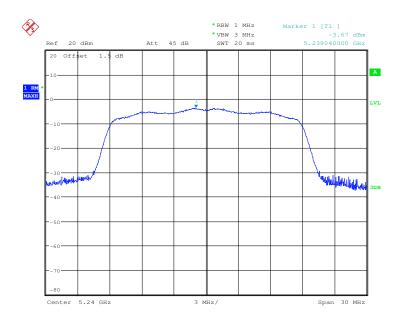


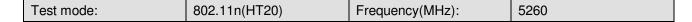
[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."

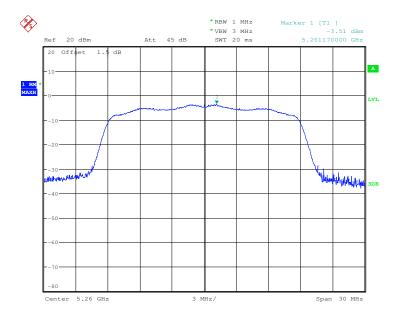


Report No.: SZEM160400205405

Page: 57 of 109





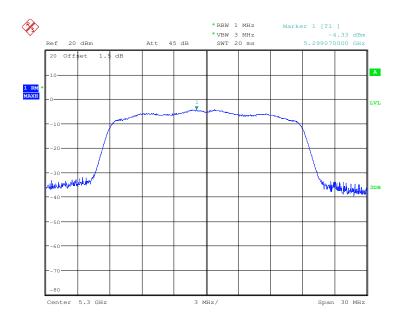


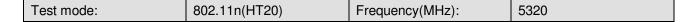
[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."

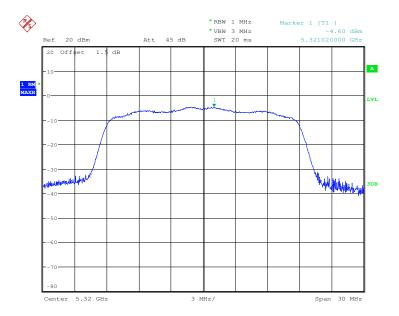


Report No.: SZEM160400205405

Page: 58 of 109





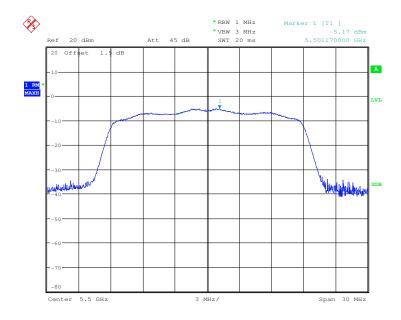


[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms.e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."

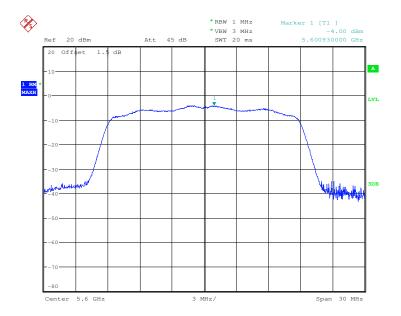


Report No.: SZEM160400205405

Page: 59 of 109





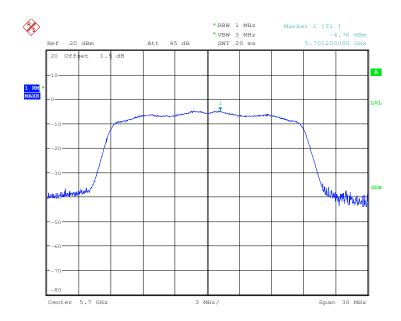


[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



Report No.: SZEM160400205405

Page: 60 of 109



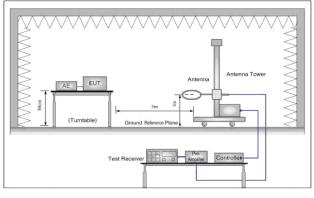


Report No.: SZEM160400205405

Page: 61 of 109

6.7 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15 Section 15.407(b)
Test Method:	ANSI C63.10: 2013
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)
Test Setup:	



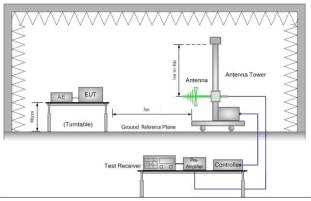


Figure 1. 30MHz	to 1GHz Figure 2. Above 1 GHz
Test Procedure:	 a. For below 1GHz test, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. b. For above 1GHz test, the EUT was placed on the top of a rotating table
	1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
	c. The EUT was set 3 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 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. Test the EUT in the outermost channels.
	h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the Y axis positioning which it is worse case.
	i. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20);

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



Report No.: SZEM160400205405

Page: 62 of 109

	For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11a at lowest channel is the worst case. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

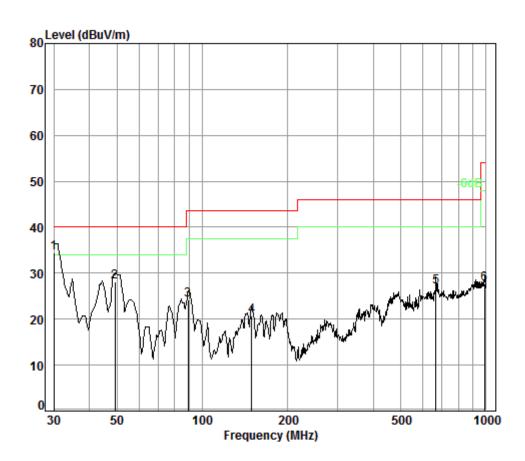


Report No.: SZEM160400205405

Page: 63 of 109

6.7.1 Radiated emission below 1GHz

30MHz~1GHz (QP)		
Test mode:	Transmitting mode	Vertical



Condition: 3m VERTICAL

Job No. : 2054RG

Test mode: Charge + TX

		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	30.00	0.60	19.00	26.00	40.91	34.51	40.00	-5.49
2	49.36	0.79	9.15	25.96	44.09	28.07	40.00	-11.93
3	89.28	1.10	8.73	25.91	40.25	24.17	43.50	-19.33
4	149.49	1.32	9.26	25.83	36.04	20.79	43.50	-22.71
5	665.80	2.84	20.97	25.67	28.99	27.13	46.00	-18.87
6	986.07	3.69	23.88	24.49	24.66	27.74	54.00	-26.26

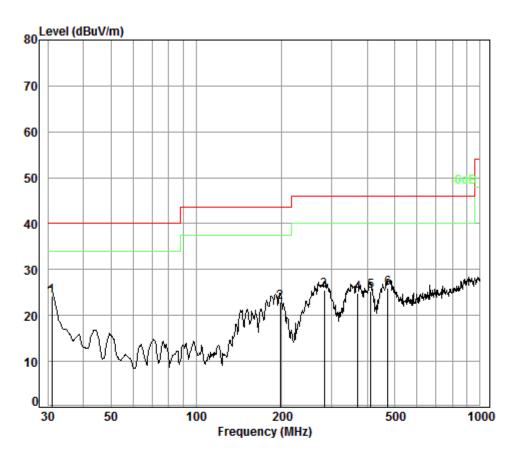
"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



Report No.: SZEM160400205405

Page: 64 of 109

rest mode. Transmitting mode Horizontal	Test mode:	Transmitting mode	Horizontal
---	------------	-------------------	------------



Condition: 3m HORIZONTAL

Job No. : 2054RG

Test mode: Charge + TX

	Freq	Cable	Ant	Preamp Factor				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp				26.00				
2	197.89			25.78				
3	281.99	1.82	12.96	25.71	36.34	25.41	46.00	-20.59
4	370.70	2.12	15.83	25.67	32.66	24.94	46.00	-21.06
5	411.82	2.25	16.35	25.65	32.41	25.36	46.00	-20.64
6	473.83	2.50	17.66	25.63	31.32	25.85	46.00	-20.15

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



Report No.: SZEM160400205405

Page: 65 of 109

6.7.2Transmitter emission above 1GHz

Test plot as follows:

Test mode:	802	.11a	Freque	Frequency(MHz):		Remark: P		ak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7678.83	36.04	10.89	37.44	43.41	52.90	74.00	-21.10	Vertical
9007.72	37.00	11.80	37.18	39.79	51.41	74.00	-22.59	Vertical
10360.00	37.08	12.98	35.96	37.18	51.28	74.00	-22.72	Vertical
12751.43	37.98	14.86	37.89	38.20	53.15	74.00	-20.85	Vertical
15540.00	40.94	17.07	38.92	34.37	53.46	74.00	-20.54	Vertical
17797.15	43.90	21.44	36.95	23.75	52.14	74.00	-21.86	Vertical
7214.79	35.59	10.68	37.63	40.98	49.62	74.00	-24.38	Horizontal
9007.72	37.00	11.80	37.18	40.26	51.88	74.00	-22.12	Horizontal
10360.00	37.08	12.98	35.96	36.59	50.69	74.00	-23.31	Horizontal
13179.99	38.28	15.60	38.40	36.20	51.68	74.00	-22.32	Horizontal
15540.00	40.94	17.07	38.92	34.60	53.69	74.00	-20.31	Horizontal
17864.51	44.06	21.66	36.94	24.37	53.15	74.00	-20.85	Horizontal

Test mode:	802	.11a	Freque	ency(MHz):	5200	Remark:		Pea	ık
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Ove Limit (-	Polarization
7093.17	35.49	10.64	37.69	42.53	50.97	74.00	-23.0	3	Vertical
8990.72	37.00	11.79	37.19	39.23	50.83	74.00	-23.1	7	Vertical
10400.00	37.10	13.04	35.99	36.11	50.26	74.00	-23.7	' 4	Vertical
13217.38	38.32	15.61	38.46	37.65	53.12	74.00	-20.8	88	Vertical
15600.00	41.06	17.18	38.73	33.71	53.22	74.00	-20.7	'8	Vertical
17864.51	44.06	21.66	36.94	24.22	53.00	74.00	-21.0	00	Vertical
7093.17	35.49	10.64	37.69	41.86	50.30	74.00	-23.7	0'	Horizontal
9007.72	37.00	11.80	37.18	39.70	51.32	74.00	-22.6	8	Horizontal
10400.00	37.10	13.04	35.99	37.44	51.59	74.00	-22.4	1	Horizontal
13217.38	38.32	15.61	38.46	37.18	52.65	74.00	-21.3	35	Horizontal
15600.00	41.06	17.18	38.73	34.04	53.55	74.00	-20.4	5	Horizontal
17864.51	44.06	21.66	36.94	24.04	52.82	74.00	-21.1	8	Horizontal



Report No.: SZEM160400205405

Page: 66 of 109

Test mode:	802	.11a	Freque	ency(MHz):	5240	Remark:	Pe	ak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7093.17	35.49	10.64	37.69	42.76	51.20	74.00	-22.80	Vertical
9007.72	37.00	11.80	37.18	38.86	50.48	74.00	-23.52	Vertical
10480.00	37.10	13.07	36.00	34.20	48.37	74.00	-25.63	Vertical
12751.43	37.98	14.86	37.89	37.71	52.66	74.00	-21.34	Vertical
15720.00	41.12	17.24	38.63	33.84	53.57	74.00	-20.43	Vertical
17864.51	44.06	21.66	36.94	23.74	52.52	74.00	-21.48	Vertical
7678.83	36.04	10.89	37.44	41.95	51.44	74.00	-22.56	Horizontal
8990.72	37.00	11.79	37.19	38.74	50.34	74.00	-23.66	Horizontal
10480.00	37.10	13.07	36.00	34.41	48.58	74.00	-25.42	Horizontal
13217.38	38.32	15.61	38.46	36.45	51.92	74.00	-22.08	Horizontal
15720.00	41.12	17.24	38.63	33.83	53.56	74.00	-20.44	Horizontal
17932.13	44.23	21.89	36.93	23.22	52.41	74.00	-21.59	Horizontal

Test mode:	802	.11a	Freque	ency(MHz):	5260	Remark:	F	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dl	Polarization
7093.17	35.49	10.64	37.69	41.60	50.04	74.00	-23.96	Vertical
8990.72	37.00	11.79	37.19	39.02	50.62	74.00	-23.38	Vertical
10520.00	37.10	13.10	36.02	33.82	48.00	74.00	-26.00	Vertical
12775.54	37.99	14.93	37.91	36.72	51.73	74.00	-22.27	Vertical
15780.00	41.18	17.29	38.54	32.99	52.92	74.00	-21.08	Vertical
17797.15	43.90	21.44	36.95	24.25	52.64	74.00	-21.36	Vertical
7678.83	36.04	10.89	37.44	41.78	51.27	74.00	-22.73	Horizontal
9007.72	37.00	11.80	37.18	38.82	50.44	74.00	-23.56	Horizontal
10520.00	37.10	13.10	36.02	34.83	49.01	74.00	-24.99	Horizontal
12751.43	37.98	14.86	37.89	36.14	51.09	74.00	-22.91	Horizontal
15780.00	41.18	17.29	38.54	32.77	52.70	74.00	-21.30	Horizontal
17730.04	43.83	21.21	36.96	25.21	53.29	74.00	-20.71	Horizontal

[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sqs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sqs.com/terms.e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



Report No.: SZEM160400205405

Page: 67 of 109

Test mode:	802	.11a	Freque	ency(MHz):	5300	Remark:	Pea	ak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7093.17	35.49	10.64	37.69	42.54	50.98	74.00	-23.02	Vertical
9007.72	37.00	11.80	37.18	39.45	51.07	74.00	-22.93	Vertical
10600.00	37.10	13.16	36.04	33.42	47.64	74.00	-26.36	Vertical
12751.43	37.98	14.86	37.89	37.20	52.15	74.00	-21.85	Vertical
15900.00	41.25	17.41	38.35	31.85	52.16	74.00	-21.84	Vertical
17830.80	43.98	21.55	36.94	24.90	53.49	74.00	-20.51	Vertical
7664.34	36.03	10.88	37.44	42.78	52.25	74.00	-21.75	Horizontal
9007.72	37.00	11.80	37.18	38.88	50.50	74.00	-23.50	Horizontal
10600.00	37.10	13.16	36.04	33.73	47.95	74.00	-26.05	Horizontal
13217.38	38.32	15.61	38.46	35.81	51.28	74.00	-22.72	Horizontal
15900.00	41.25	17.41	38.35	31.73	52.04	74.00	-21.96	Horizontal
17797.15	43.90	21.44	36.95	24.53	52.92	74.00	-21.08	Horizontal

Test mode:	802	2.11a	Freque	ency(MHz):	5320	Remark:	F	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dE	Polarization
7120.02	35.52	10.65	37.68	41.98	50.47	74.00	-23.53	Vertical
9007.72	37.00	11.80	37.18	38.71	50.33	74.00	-23.67	Vertical
10640.00	37.12	13.19	36.06	34.44	48.69	74.00	-25.31	Vertical
12763.48	37.98	14.89	37.90	36.63	51.60	74.00	-22.40	Vertical
15960.00	41.28	17.46	38.26	32.32	52.80	74.00	-21.20	Vertical
17797.15	43.90	21.44	36.95	24.76	53.15	74.00	-20.85	Vertical
7678.83	36.04	10.89	37.44	41.48	50.97	74.00	-23.03	Horizontal
9007.72	37.00	11.80	37.18	38.51	50.13	74.00	-23.87	Horizontal
10640.00	37.12	13.19	36.06	34.63	48.88	74.00	-25.12	Horizontal
13217.38	38.32	15.61	38.46	36.36	51.83	74.00	-22.17	Horizontal
15960.00	41.28	17.46	38.26	31.70	52.18	74.00	-21.82	Horizontal
17730.04	43.83	21.21	36.96	25.38	53.46	74.00	-20.54	Horizontal

[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sqs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sqs.com/terms.e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



Report No.: SZEM160400205405

Page: 68 of 109

Test mode:	802	.11a	Freque	ency(MHz):	5500	Remark:	Pea	ık
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7106.58	35.51	10.64	37.68	42.47	50.94	74.00	-23.06	Vertical
9007.72	37.00	11.80	37.18	39.59	51.21	74.00	-22.79	Vertical
11000.00	37.30	13.45	36.18	33.23	47.80	74.00	-26.20	Vertical
12751.43	37.98	14.86	37.89	37.65	52.60	74.00	-21.40	Vertical
14845.57	40.42	16.50	39.77	35.73	52.88	74.00	-21.12	Vertical
16500.00	42.00	17.59	37.62	31.41	53.38	74.00	-20.62	Vertical
7678.83	36.04	10.89	37.44	41.74	51.23	74.00	-22.77	Horizontal
9659.79	37.10	12.53	36.28	39.56	52.91	74.00	-21.09	Horizontal
11000.00	37.30	13.45	36.18	33.68	48.25	74.00	-25.75	Horizontal
12536.48	37.84	14.25	37.69	37.51	51.91	74.00	-22.09	Horizontal
14761.68	40.34	16.47	39.76	35.30	52.35	74.00	-21.65	Horizontal
16500.00	42.00	17.59	37.62	31.37	53.34	74.00	-20.66	Horizontal

Test mode:	802	.11a	Freque	ncy(MHz):	5600	Remark:	Pe	eak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7093.17	35.49	10.64	37.69	42.37	50.81	74.00	-23.19	Vertical
9007.72	37.00	11.80	37.18	39.08	50.70	74.00	-23.30	Vertical
11200.00	37.30	13.68	36.39	34.79	49.38	74.00	-24.62	Vertical
12775.54	37.99	14.93	37.91	36.77	51.78	74.00	-22.22	Vertical
14512.85	40.01	16.40	39.72	36.11	52.80	74.00	-21.20	Vertical
16800.00	42.50	18.24	37.28	29.49	52.95	74.00	-21.05	Vertical
7678.83	36.04	10.89	37.44	41.29	50.78	74.00	-23.22	Horizontal
9007.72	37.00	11.80	37.18	38.87	50.49	74.00	-23.51	Horizontal
11200.00	37.30	13.68	36.39	34.83	49.42	74.00	-24.58	Horizontal
13192.44	38.29	15.60	38.42	37.22	52.69	74.00	-21.31	Horizontal
15157.26	40.66	16.70	39.53	34.20	52.03	74.00	-21.97	Horizontal
16800.00	42.50	18.24	37.28	30.42	53.88	74.00	-20.12	Horizontal

[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sqs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sqs.com/terms.e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



Report No.: SZEM160400205405

Page: 69 of 109

Test mode:	802	.11a	Freque	ency(MHz):	5700	Remark:	Pea	ak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7228.43	35.59	10.69	37.63	40.08	48.73	74.00	-25.27	Vertical
9007.72	37.00	11.80	37.18	38.78	50.40	74.00	-23.60	Vertical
11400.00	37.40	13.91	36.59	35.85	50.57	74.00	-23.43	Vertical
13093.14	38.19	15.57	38.27	35.93	51.42	74.00	-22.58	Vertical
15157.26	40.66	16.70	39.53	34.21	52.04	74.00	-21.96	Vertical
17100.00	42.90	19.02	37.05	28.23	53.10	74.00	-20.90	Vertical
7678.83	36.04	10.89	37.44	42.90	52.39	74.00	-21.61	Horizontal
8990.72	37.00	11.79	37.19	39.76	51.36	74.00	-22.64	Horizontal
11400.00	37.40	13.91	36.59	34.88	49.60	74.00	-24.40	Horizontal
13217.38	38.32	15.61	38.46	36.95	52.42	74.00	-21.58	Horizontal
15071.61	40.57	16.61	39.67	35.67	53.18	74.00	-20.82	Horizontal
17100.00	42.90	19.02	37.05	28.21	53.08	74.00	-20.92	Horizontal

Test mode:	802	2.11n(HT20)	Freque	ency(MHz):	5180	Remark:	F	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (de	Polarization
7678.83	36.04	10.89	37.44	43.41	52.90	74.00	-21.10	Vertical
9007.72	37.00	11.80	37.18	39.79	51.41	74.00	-22.59	Vertical
10360.00	37.08	12.98	35.96	38.18	52.28	74.00	-21.72	Vertical
12751.43	37.98	14.86	37.89	38.20	53.15	74.00	-20.85	Vertical
15540.00	40.94	17.07	38.92	34.37	53.46	74.00	-20.54	Vertical
17596.58	43.69	20.75	36.98	24.87	52.33	74.00	-21.67	Vertical
7678.83	36.04	10.89	37.44	42.17	51.66	74.00	-22.34	Horizontal
9007.72	37.00	11.80	37.18	40.26	51.88	74.00	-22.12	Horizontal
10360.00	37.08	12.98	35.96	36.59	50.69	74.00	-23.31	Horizontal
12775.54	37.99	14.93	37.91	37.11	52.12	74.00	-21.88	Horizontal
15540.00	40.94	17.07	38.92	34.60	53.69	74.00	-20.31	Horizontal
17563.38	43.63	20.64	36.98	25.43	52.72	74.00	-21.28	Horizontal

[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



Report No.: SZEM160400205405

Page: 70 of 109

Test mode:	802	.11n(HT20)	Freque	ency(MHz):	5200	Remark:	F	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dE	Polarization
7678.83	36.04	10.89	37.44	41.83	51.32	74.00	-22.68	Vertical
8889.40	36.94	11.80	37.20	34.76	46.30	74.00	-27.70	Vertical
10400.00	37.10	13.04	35.99	35.11	49.26	74.00	-24.74	Vertical
12751.43	37.98	14.86	37.89	36.78	51.73	74.00	-22.27	Vertical
15600.00	41.06	17.18	38.73	33.71	53.22	74.00	-20.78	Vertical
17864.51	44.06	21.66	36.94	24.22	53.00	74.00	-21.00	Vertical
7093.17	35.49	10.64	37.69	41.86	50.30	74.00	-23.70	Horizontal
9007.72	37.00	11.80	37.18	39.70	51.32	74.00	-22.68	Horizontal
10400.00	37.10	13.04	35.99	35.44	49.59	74.00	-24.41	Horizontal
13217.38	38.32	15.61	38.46	37.18	52.65	74.00	-21.35	Horizontal
15600.00	41.06	17.18	38.73	34.04	53.55	74.00	-20.45	Horizontal
17864.51	44.06	21.66	36.94	24.04	52.82	74.00	-21.18	Horizontal

Test mode:	802	2.11n(HT20)	Freque	ency(MHz):	5240	Remark:	F	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dE	Polarization
7678.83	36.04	10.89	37.44	42.45	51.94	74.00	-22.06	Vertical
9007.72	37.00	11.80	37.18	38.86	50.48	74.00	-23.52	Vertical
10480.00	37.10	13.07	36.00	36.20	50.37	74.00	-23.63	Vertical
12751.43	37.98	14.86	37.89	37.71	52.66	74.00	-21.34	Vertical
15720.00	41.12	17.24	38.63	33.84	53.57	74.00	-20.43	Vertical
17864.51	44.06	21.66	36.94	24.74	53.52	74.00	-20.48	Vertical
7678.83	36.04	10.89	37.44	41.95	51.44	74.00	-22.56	Horizontal
8990.72	37.00	11.79	37.19	38.74	50.34	74.00	-23.66	Horizontal
10480.00	37.10	13.07	36.00	34.41	48.58	74.00	-25.42	Horizontal
12775.54	37.99	14.93	37.91	38.55	53.56	74.00	-20.44	Horizontal
15720.00	41.12	17.24	38.63	33.83	53.56	74.00	-20.44	Horizontal
17932.13	44.23	21.89	36.93	24.22	53.41	74.00	-20.59	Horizontal

[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sqs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sqs.com/terms.e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



Report No.: SZEM160400205405

Page: 71 of 109

Test mode:	802	.11n(HT20)	Freque	ency(MHz):	5260	Remark:	F	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dE	Polarization
7664.34	36.03	10.88	37.44	42.65	52.12	74.00	-21.88	Vertical
8990.72	37.00	11.79	37.19	39.40	51.00	74.00	-23.00	Vertical
10520.00	37.10	13.10	36.02	34.37	48.55	74.00	-25.45	Vertical
13217.38	38.32	15.61	38.46	36.77	52.24	74.00	-21.76	Vertical
15780.00	41.18	17.29	38.54	33.09	53.02	74.00	-20.98	Vertical
17730.04	43.83	21.21	36.96	25.80	53.88	74.00	-20.12	Vertical
7093.17	35.49	10.64	37.69	42.11	50.55	74.00	-23.45	Horizontal
9007.72	37.00	11.80	37.18	39.03	50.65	74.00	-23.35	Horizontal
10520.00	37.10	13.10	36.02	35.62	49.80	74.00	-24.20	Horizontal
12751.43	37.98	14.86	37.89	37.42	52.37	74.00	-21.63	Horizontal
15780.00	41.18	17.29	38.54	32.40	52.33	74.00	-21.67	Horizontal
17763.56	43.86	21.32	36.95	25.55	53.78	74.00	-20.22	Horizontal

Test mode: 80		.11n(HT20) Frequency(M		ency(MHz):	5300 Remark:		Peak	
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7093.17	35.49	10.64	37.69	42.11	50.55	74.00	-23.45	Vertical
9007.72	37.00	11.80	37.18	39.51	51.13	74.00	-22.87	Vertical
10600.00	37.10	13.16	36.04	34.55	48.77	74.00	-25.23	Vertical
13217.38	38.32	15.61	38.46	36.99	52.46	74.00	-21.54	Vertical
15900.00	41.25	17.41	38.35	32.91	53.22	74.00	-20.78	Vertical
17730.04	43.83	21.21	36.96	24.97	53.05	74.00	-20.95	Vertical
7678.83	36.04	10.89	37.44	42.04	51.53	74.00	-22.47	Horizontal
9007.72	37.00	11.80	37.18	38.57	50.19	74.00	-23.81	Horizontal
10600.00	37.10	13.16	36.04	35.04	49.26	74.00	-24.74	Horizontal
13204.91	38.30	15.60	38.44	36.56	52.02	74.00	-21.98	Horizontal
15900.00	41.25	17.41	38.35	31.94	52.25	74.00	-21.75	Horizontal
17797.15	43.90	21.44	36.95	24.91	53.30	74.00	-20.70	Horizontal

[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sqs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sqs.com/terms.e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



Report No.: SZEM160400205405

Page: 72 of 109

Test mode: 802		2.11n(HT20)	0) Frequency(MHz):		5320	Remark:	F	Peak	
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB	Polarization	
7133.48	35.53	10.65	37.67	40.62	49.13	74.00	-24.87	Vertical	
9007.72	37.00	11.80	37.18	39.57	51.19	74.00	-22.81	Vertical	
10640.00	37.12	13.19	36.06	34.20	48.45	74.00	-25.55	Vertical	
13192.44	38.29	15.60	38.42	35.63	51.10	74.00	-22.90	Vertical	
15960.00	41.28	17.46	38.26	32.03	52.51	74.00	-21.49	Vertical	
17864.51	44.06	21.66	36.94	24.97	53.75	74.00	-20.25	Vertical	
7664.34	36.03	10.88	37.44	41.67	51.14	74.00	-22.86	Horizontal	
9007.72	37.00	11.80	37.18	38.87	50.49	74.00	-23.51	Horizontal	
10640.00	37.12	13.19	36.06	35.60	49.85	74.00	-24.15	Horizontal	
13093.14	38.19	15.57	38.27	37.26	52.75	74.00	-21.25	Horizontal	
15960.00	41.28	17.46	38.26	32.03	52.51	74.00	-21.49	Horizontal	
17830.80	43.98	21.55	36.94	24.35	52.94	74.00	-21.06	Horizontal	

Test mode: 802		2.11n(HT20) Freque		ency(MHz): 5500		Remark:		Peak	
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (de	Polarization	
7099.87	35.50	10.64	37.69	41.45	49.90	74.00	-24.10	Vertical	
9007.72	37.00	11.80	37.18	39.41	51.03	74.00	-22.97	Vertical	
11000.00	37.30	13.45	36.18	34.12	48.69	74.00	-25.31	Vertical	
12775.54	37.99	14.93	37.91	36.91	51.92	74.00	-22.08	Vertical	
14650.57	40.18	16.44	39.74	34.75	51.63	74.00	-22.37	Vertical	
16500.00	42.00	17.59	37.62	30.97	52.94	74.00	-21.06	Vertical	
7678.83	36.04	10.89	37.44	42.15	51.64	74.00	-22.36	Horizontal	
9659.79	37.10	12.53	36.28	38.80	52.15	74.00	-21.85	Horizontal	
11000.00	37.30	13.45	36.18	34.28	48.85	74.00	-25.15	Horizontal	
12751.43	37.98	14.86	37.89	36.86	51.81	74.00	-22.19	Horizontal	
14512.85	40.01	16.40	39.72	36.11	52.80	74.00	-21.20	Horizontal	
16500.00	42.00	17.59	37.62	30.74	52.71	74.00	-21.29	Horizontal	

[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



Report No.: SZEM160400205405

Page: 73 of 109

Test mode:	802	.11n(HT20)	Freque	ency(MHz):	5600	Remark:	F	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dE	Polarization
7678.83	36.04	10.89	37.44	41.64	51.13	74.00	-22.87	Vertical
9007.72	37.00	11.80	37.18	39.29	50.91	74.00	-23.09	Vertical
11200.00	37.30	13.68	36.39	34.77	49.36	74.00	-24.64	Vertical
12751.43	37.98	14.86	37.89	37.95	52.90	74.00	-21.10	Vertical
14512.85	40.01	16.40	39.72	36.11	52.80	74.00	-21.20	Vertical
16800.00	42.50	18.24	37.28	29.56	53.02	74.00	-20.98	Vertical
7187.58	35.59	10.67	37.65	38.93	47.54	74.00	-26.46	Horizontal
8990.72	37.00	11.79	37.19	39.48	51.08	74.00	-22.92	Horizontal
11200.00	37.30	13.68	36.39	34.65	49.24	74.00	-24.76	Horizontal
13192.44	38.29	15.60	38.42	36.26	51.73	74.00	-22.27	Horizontal
15128.66	40.63	16.67	39.58	35.45	53.17	74.00	-20.83	Horizontal
16800.00	42.50	18.24	37.28	29.95	53.41	74.00	-20.59	Horizontal

Test mode:	de: 802.11n(HT20) Frequency(MH		ency(MHz):	5700	Remark:	F	Peak	
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB	Polarization
7133.48	35.53	10.65	37.67	40.91	49.42	74.00	-24.58	Vertical
9659.79	37.10	12.53	36.28	40.16	53.51	74.00	-20.49	Vertical
11400.00	37.40	13.90	36.58	35.70	50.42	74.00	-23.58	Vertical
13179.99	38.28	15.60	38.40	36.21	51.69	74.00	-22.31	Vertical
14929.94	40.47	16.52	39.78	35.69	52.90	74.00	-21.10	Vertical
17100.00	42.91	19.04	37.04	28.67	53.58	74.00	-20.42	Vertical
7671.58	36.04	10.88	37.44	41.83	51.31	74.00	-22.69	Horizontal
9659.79	37.10	12.53	36.28	39.60	52.95	74.00	-21.05	Horizontal
11400.00	37.40	13.90	36.58	36.05	50.77	74.00	-23.23	Horizontal
13217.38	38.32	15.61	38.46	36.59	52.06	74.00	-21.94	Horizontal
15157.26	40.66	16.70	39.53	35.68	53.51	74.00	-20.49	Horizontal
17100.00	42.91	19.04	37.04	28.88	53.79	74.00	-20.21	Horizontal

[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms.e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



Report No.: SZEM160400205405

Page: 74 of 109

Remark:

1) 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

- 2) Scan from 9kHz to 25GHz, The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3) As shown in this section, 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. So, only the peak measurements were shown in the report.

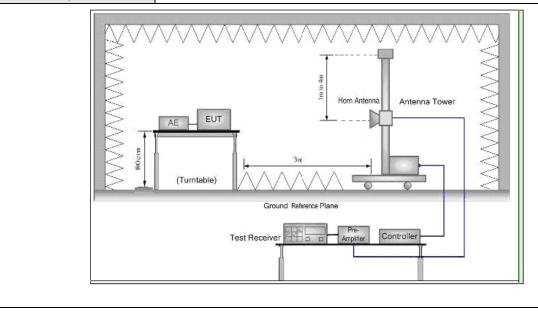


Report No.: SZEM160400205405

Page: 75 of 109

6.8 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15 Section 15	47 CFR Part 15 Section 15.407(b)								
Test Method:	ANSI C63.10: 2013	ANSI C63.10: 2013								
Test Site:	Measurement Distance: 3m	Measurement Distance: 3m (Semi-Anechoic Chamber)								
Limit:	Frequency	Limit (dBuV/m @3m)	Remark							
	30MHz-88MHz	40.0	Quasi-peak Value							
	88MHz-216MHz	88MHz-216MHz 43.5 Quasi-peak Value								
	216MHz-960MHz	46.0	Quasi-peak Value							
	960MHz-1GHz	54.0	Quasi-peak Value							
	Above 10Uz	54.0	Average Value							
	Above IGHZ	Above 1GHz 74.0 Peak Value								
Test Setup:										



[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



Report No.: SZEM160400205405

Page: 76 of 109

Test Procedure:	 a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. c. 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.
	 d. 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 and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
	e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	f. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel
	g. Test the EUT in the outermost channels.
	h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the Y axis positioning which it is worse case.
	 i. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a;
	MCS0 of rate is the worst case of 802.11n(HT20);
	Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

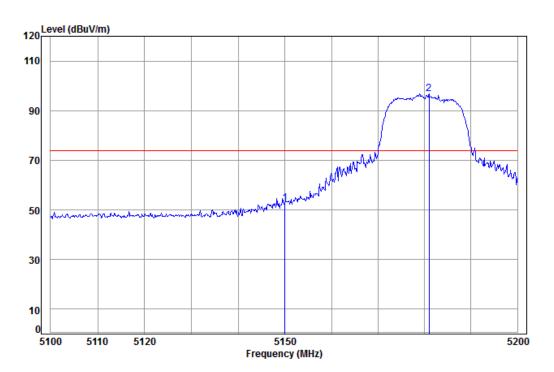


Report No.: SZEM160400205405

Page: 77 of 109

Test plot as follows:

Test mode: 802.11a Test Frequency: Antenna Polarization: Vertical



Condition: 3m Vertical Job No: : 2054RG

Mode: : 5180 Band edge

: A20

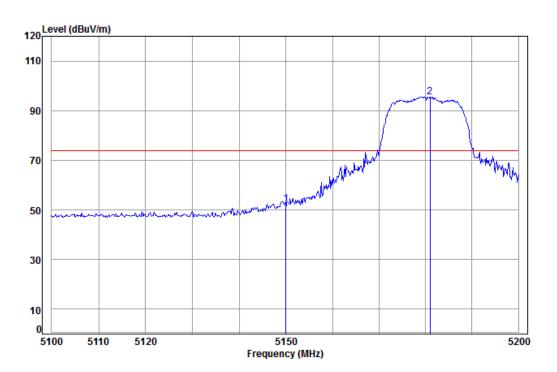
Cable Ant Preamp Read Limit 0ver Freq Loss Factor Factor Level Level Line Limit MHz dB dB/m dB dBuV dBuV/m dBuV/m 34.07 38.82 49.37 5150.00 8.08 52.70 74.00 -21.30 2 pp 5180.95 8.09 34.03 38.82 93.52 96.82 74.00 22.82



Report No.: SZEM160400205405

Page: 78 of 109

Test mode: 802.11a Test Frequency: Antenna Polarization: Horizontal



Condition: 3m Horizontal

Job No: : 2054RG

Mode: : 5180 Band edge

: A20

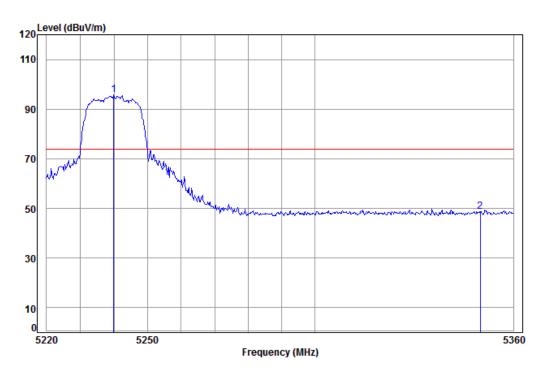
	Freq			Preamp Factor				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 2 pp	5150.00 5180.95							



Report No.: SZEM160400205405

Page: 79 of 109

Test mode: 802.11a Test Frequency: Antenna Polarization: Vertical



Condition: 3m Vertical Job No: : 2054RG

Mode: : 5240 Band edge

: A20

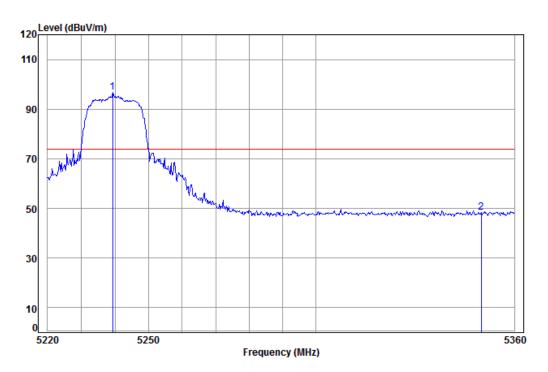
Ant Preamp Cable Read limit 0ver Freq Loss Factor Factor Level Limit Level Line dB dBuV dBuV/m dBuV/m MHz dB/m dB 8.12 34.08 38.83 92.43 95.80 74.00 21.80 5239.93 5350.00 8.18 34.30 38.85 45.15 48.78 74.00 -25.22



Report No.: SZEM160400205405

Page: 80 of 109

Test mode: 802.11a Test Frequency: Antenna Polarization: Horizontal



Condition: 3m Horizontal

Job No: : 2054RG

Mode: : 5240 Band edge

: A20

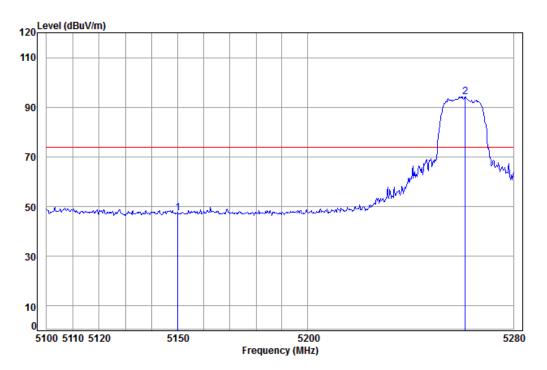
	Freq			Preamp Factor				
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB
	5239.38 5350.00							



Report No.: SZEM160400205405

Page: 81 of 109

Test mode: 802.11a Test Frequency: Antenna Polarization: Vertical



Condition: 3m Vertical Job No: : 2054RG

Mode: : 5260 Band edge

: A20

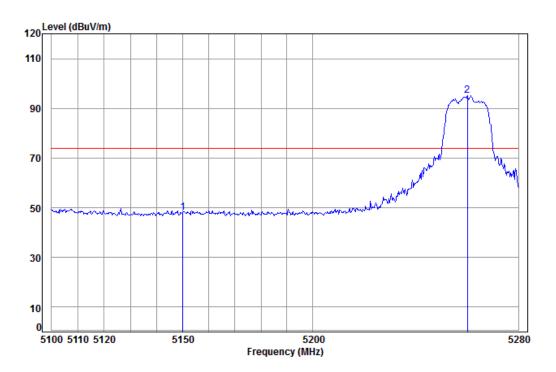
Cable Ant Preamp Read Limit 0ver Freq Loss Factor Factor Level Level Line limit MHz dBuV dBuV/m dBuV/m dB dB/m dB 5150.00 8.08 34.07 38.82 43.97 47.30 74.00 -26.70 34.12 38.84 90.88 94.29 74.00 20.29 5261.17 8.13



Report No.: SZEM160400205405

Page: 82 of 109

Test mode: 802.11a Test Frequency: Antenna Polarization: Horizontal



Condition: 3m Horizontal

Job No: : 2054RG

: 5260 Band edge

Mode: : 5260 Ba

: A20 Cable Ant Pre

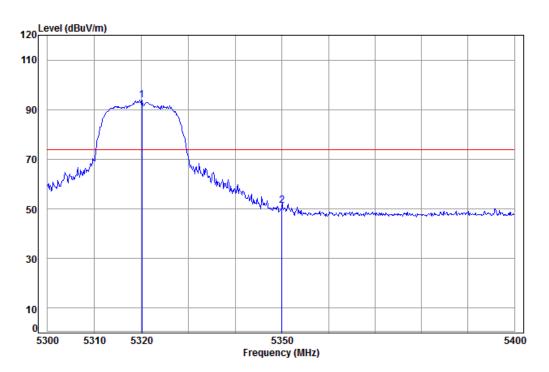
				Preamp Factor			Freq	
dB	dBuV/m	dBuV/m	dBuV	dB	dB/m	dB	MHz	-
							5150.00 5260.08	



Report No.: SZEM160400205405

Page: 83 of 109

Test mode: 802.11a Test Frequency: Antenna Polarization: Vertical



Condition: 3m Vertical Job No: : 2054RG

Mode: : 5320 Band edge

: A20

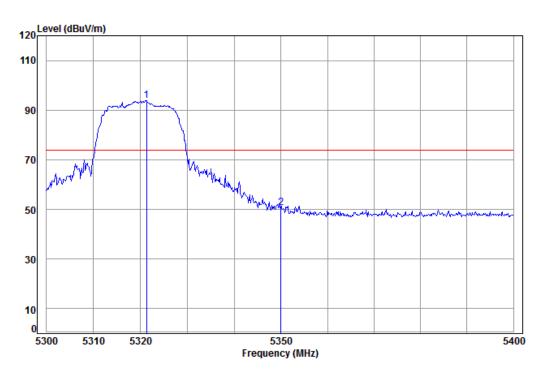
Ant Preamp Cable Read Limit 0ver Freq Loss Factor Factor Level Level Line Limit MHz dB dB/m dB dBuV dBuV/m dBuV/m 5320.05 8.16 34.24 38.85 90.42 93.97 74.00 19.97 5350.00 8.18 34.30 38.85 47.58 51.21 74.00 -22.79



Report No.: SZEM160400205405

Page: 84 of 109

Test mode: 802.11a Test Frequency: Antenna Polarization: Horizontal



Condition: 3m Horizontal

Job No: : 2054RG

Mode: : 5320 Band edge

: A20

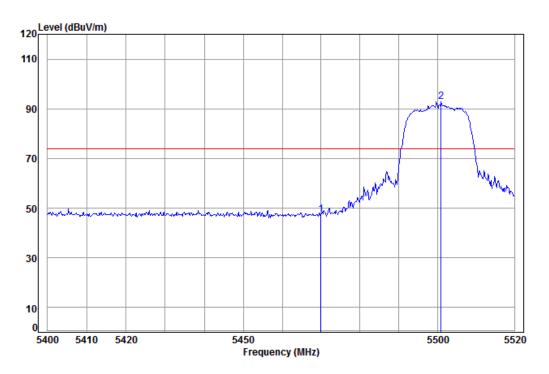
Ant Preamp Cable Read limit 0ver Loss Factor Factor Level Limit Freq Level Line dB dBuV dBuV/m dBuV/m MHz dB/m 34.24 38.85 90.23 93.78 74.00 19.78 5321.24 8.16 5350.00 8.18 34.30 38.85 46.99 50.62 74.00 -23.38



Report No.: SZEM160400205405

Page: 85 of 109

Test mode: 802.11a Test Frequency: Antenna Polarization: Vertical



Condition: 3m Vertical Job No: : 2054RG

Mode: : 5500 Band edge

: A20

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Freq Level Level Line Limit MHz dB dBuV dBuV/m dBuV/m dB/m dB 5470.00 8.24 34.36 38.87 43.60 47.33 74.00 -26.67 8.25 34.35 38.88 89.27 92.99 74.00 18.99 5500.99

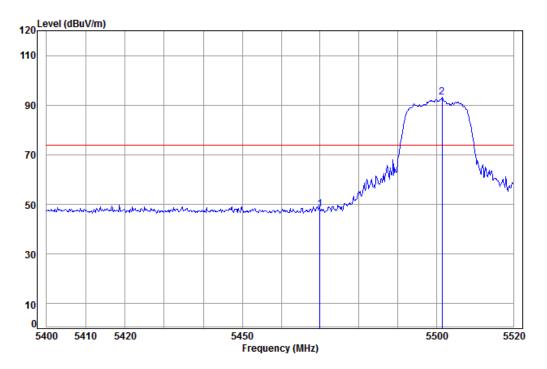
[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms.e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



Report No.: SZEM160400205405

Page: 86 of 109

Test mode: 802.11a Test Frequency: Antenna Polarization: Horizontal



Condition: 3m Horizontal

Job No: : 2054RG

Mode: : 5500 Band edge

: A20

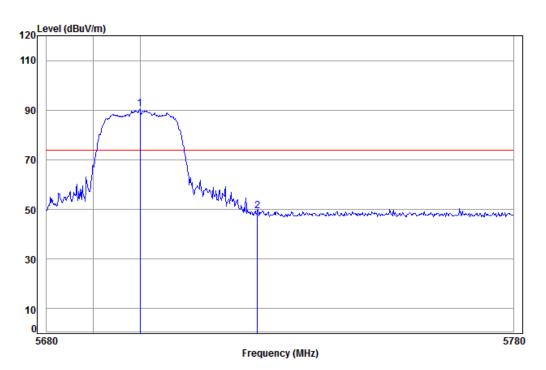
	Fred			Preamp Factor				
_								
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 2 pp	5470.00 5501.47							



Report No.: SZEM160400205405

Page: 87 of 109

Test mode: 802.11a Test Frequency: Antenna Polarization: Vertical



Condition: 3m Vertical Job No: : 2054RG

Mode: : 5700 Band edge

: A20

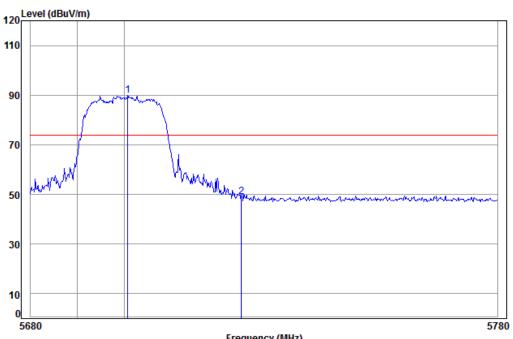
Ant Preamp Cable Read limit 0ver Freq Loss Factor Factor Limit Level Level Line dBuV dBuV/m dBuV/m MHz dB dB/m 8.46 34.25 38.91 86.87 90.67 74.00 16.67 5699.86 5725.00 8.48 34.24 38.92 45.64 49.44 74.00 -24.56



Report No.: SZEM160400205405

88 of 109 Page:

Test mode: 802.11a **Test Frequency: Antenna Polarization:** Horizontal



Frequency (MHz)

Condition: 3m Horizontal

Job No: : 2054RG

Mode: : 5700 Band edge

: A20

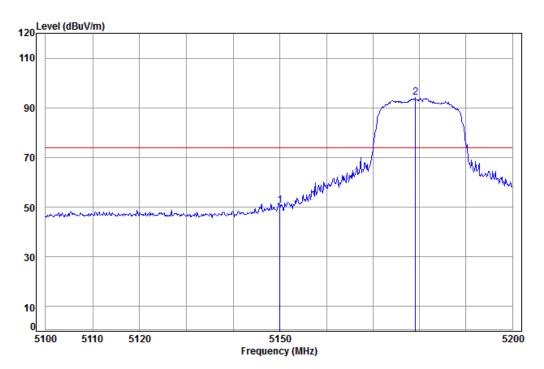
		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5700.66	8.46	34.25	38.91	86.01	89.81	74.00	15.81
2	5725.00	8.48	34.24	38.92	45.31	49.11	74.00	-24.89



Report No.: SZEM160400205405

Page: 89 of 109

Test mode: 802.11n(HT20) Test Frequency: Antenna Polarization: Vertical



Condition: 3m Vertical Job No: : 2054RG

Mode: : 5180 Band edge

: N20

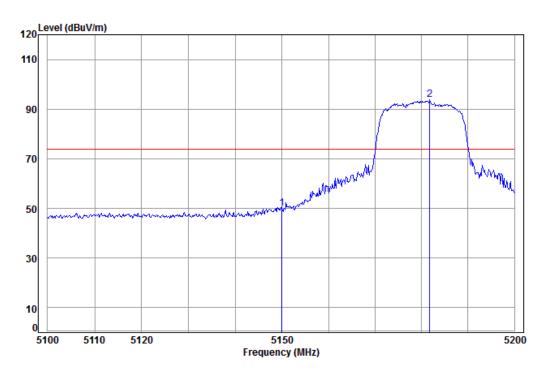
Ant Preamp 0ver Cable Read limit Freq Loss Factor Factor Level Level Line Limit MHz dB dB/m dBuV dBuV/m dBuV/m 5150.00 8.08 34.07 38.82 47.30 50.63 74.00 -23.37 2 pp 5179.14 8.09 34.03 38.82 90.74 94.04 74.00 20.04



Report No.: SZEM160400205405

Page: 90 of 109

Test mode: 802.11n(HT20) Test Frequency: Antenna Polarization: Horizontal



Condition: 3m Horizontal

Job No: : 2054RG

Mode: : 5180 Band edge

: N20

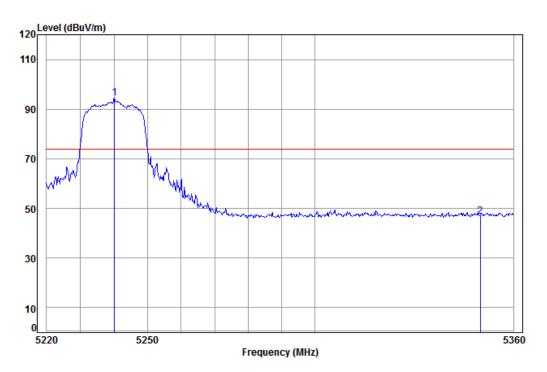
		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5150.00	8.08	34.07	38.82	46.73	50.06	74.00	-23.94
2 p	p 5181.76	8.09	34.03	38.82	90.42	93.72	74.00	19.72



Report No.: SZEM160400205405

Page: 91 of 109

Test mode: 802.11n(HT20) Test Frequency: Antenna Polarization: Vertical



Condition: 3m Vertical Job No: : 2054RG

Mode: : 5240 Band edge

: N20

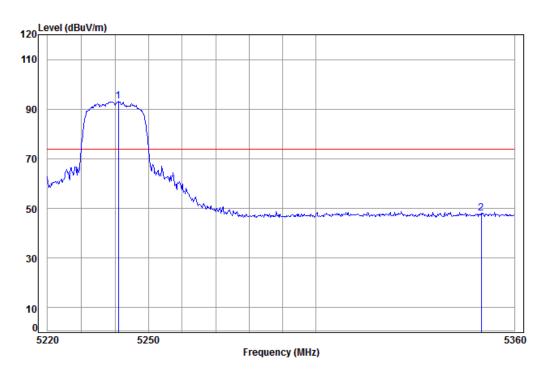
Ant Preamp Cable Read limit 0ver Freq Loss Factor Factor Level Level Limit Line dB dBuV dBuV/m dBuV/m MHz dB/m 8.12 34.08 38.83 91.08 94.45 74.00 20.45 5240.21 5350.00 8.18 34.30 38.85 43.21 46.84 74.00 -27.16



Report No.: SZEM160400205405

Page: 92 of 109

Test mode: 802.11n(HT20) Test Frequency: Antenna Polarization: Horizontal



Condition: 3m Horizontal

Job No: : 2054RG

Mode: : 5240 Band edge

: N20

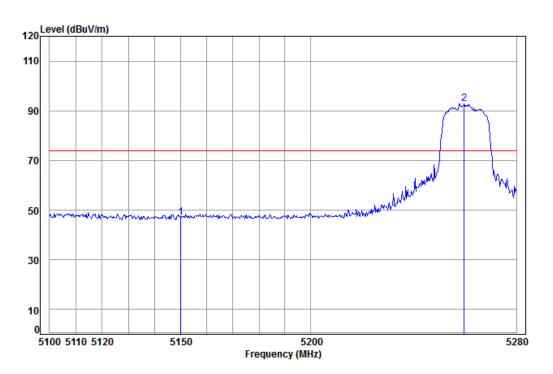
		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
_								
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5241.04	8.12	34.08	38.83	89.74	93.11	74.00	19.11
2	5350.00	8.18	34.30	38.85	44.45	48.08	74.00	-25.92



Report No.: SZEM160400205405

Page: 93 of 109

Test mode: 802.11n(HT20) Test Frequency: Antenna Polarization: Vertical



Condition: 3m Vertical Job No: : 2054RG

Mode: : 5260 Band edge

: N20

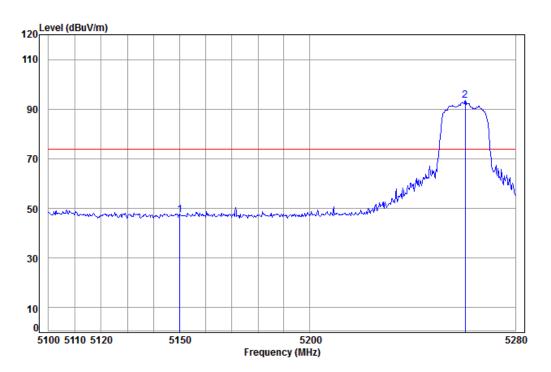
Ant Preamp 0ver Cable Read limit Freq Loss Factor Factor Level Level Line Limit MHz dB dB/m dBuV dBuV/m dBuV/m 5150.00 8.08 34.07 38.82 43.84 47.17 74.00 -26.83 2 pp 5259.53 8.13 34.12 38.84 89.43 92.84 74.00 18.84



Report No.: SZEM160400205405

Page: 94 of 109

Test mode: 802.11n(HT20) Test Frequency: Antenna Polarization: Horizontal



Condition: 3m Horizontal

Job No: : 2054RG

Mode: : 5260 Band edge

: N20

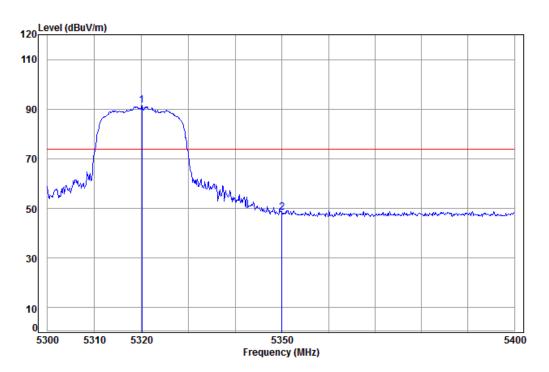
Ant Preamp Cable Read limit 0ver Freq Loss Factor Factor Level Level Limit Line dBuV dBuV/m dBuV/m MHz dB dB/m 5150.00 8.08 34.07 38.82 44.20 47.53 74.00 -26.47 5260.44 8.13 34.12 38.84 90.02 93.43 74.00 19.43



Report No.: SZEM160400205405

Page: 95 of 109

Test mode: 802.11n(HT20) Test Frequency: Antenna Polarization: Vertical



Condition: 3m Vertical Job No: : 2054RG

Mode: : 5320 Band edge

: N20

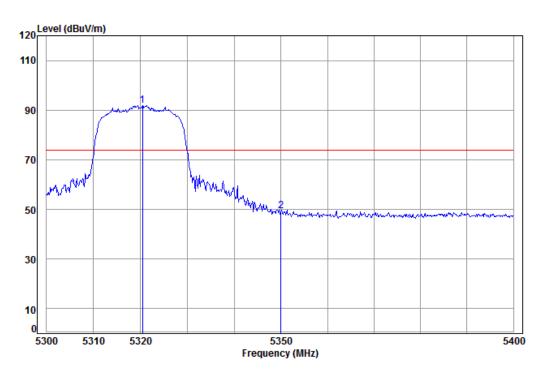
Ant Preamp Cable Read limit 0ver Freq Loss Factor Factor Limit Level Level Line dB dBuV dBuV/m dBuV/m MHz dB/m 34.24 38.85 87.98 91.53 74.00 17.53 5320.05 8.16 5350.00 8.18 34.30 38.85 44.68 48.31 74.00 -25.69



Report No.: SZEM160400205405

Page: 96 of 109

Test mode: 802.11n(HT20) Test Frequency: Antenna Polarization: Horizontal



Condition: 3m Horizontal

Job No: : 2054RG

Mode: : 5320 Band edge

: N20

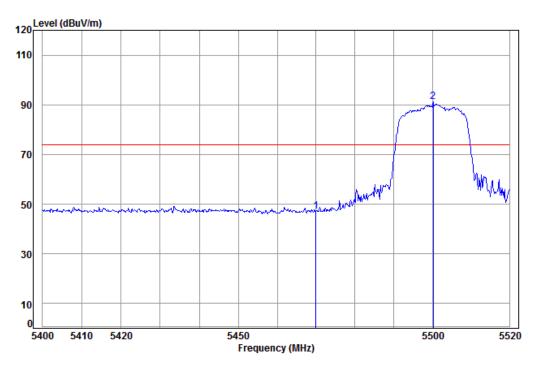
	_			Preamp				
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5320.45	8.16	34.24	38.85	88.39	91.94	74.00	17.94
2	5350.00	8.18	34.30	38.85	45.90	49.53	74.00	-24.47



Report No.: SZEM160400205405

Page: 97 of 109

Test mode: 802.11n(HT20) Test Frequency: Antenna Polarization: Vertical



Condition: 3m Vertical Job No: : 2054RG

Mode: : 5500 Band edge

: N20

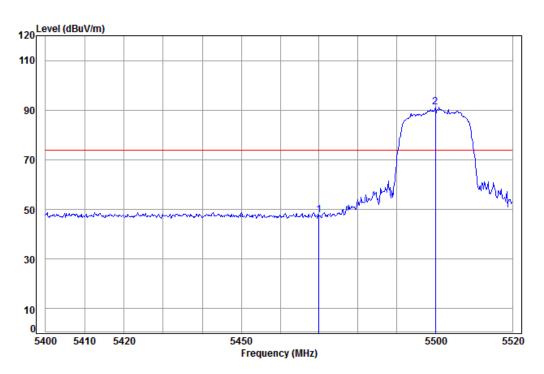
Ant Preamp 0ver Cable Read limit Freq Loss Factor Factor Level Level Line Limit MHz dB dB/m dBuV dBuV/m dBuV/m 5470.00 8.24 34.36 38.87 43.44 47.17 74.00 -26.83 2 pp 5500.26 8.25 34.35 38.88 87.57 91.29 74.00 17.29



Report No.: SZEM160400205405

Page: 98 of 109

Test mode: 802.11n(HT20) Test Frequency: Antenna Polarization: Horizontal



Condition: 3m Horizontal

Job No: : 2054RG

Mode: : 5500 Band edge

: N20

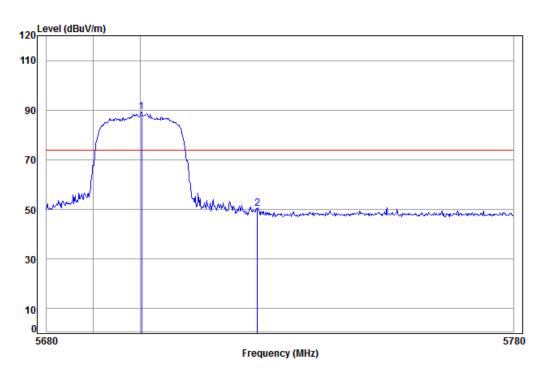
Cable Ant Preamp Read limit 0ver Freq Loss Factor Factor Level Limit Level Line dBuV dBuV/m dBuV/m MHz dB/m 5470.00 8.24 34.36 38.87 43.89 47.62 74.00 -26.38 5500.02 8.25 34.35 38.88 87.44 91.16 74.00 17.16



Report No.: SZEM160400205405

Page: 99 of 109

Test mode: 802.11n(HT20) Test Frequency: Antenna Polarization: Vertical



Condition: 3m Vertical Job No: : 2054RG

Mode: : 5700 Band edge

: N20

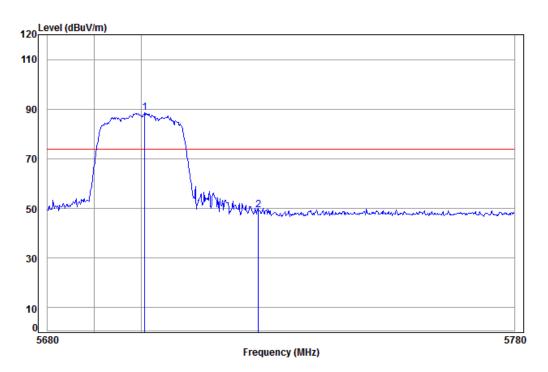
Ant Preamp Cable Read limit 0ver Freq Loss Factor Factor Limit Level Level Line dBuV dBuV/m dBuV/m MHz dB dB/m 5700.26 8.46 34.25 38.91 85.53 89.33 74.00 15.33 5725.00 8.48 34.24 38.92 46.50 50.30 74.00 -23.70



Report No.: SZEM160400205405

Page: 100 of 109

Test mode: 802.11n(HT20) Test Frequency: Antenna Polarization: Horizontal



Condition: 3m Horizontal

Job No: : 2054RG

Mode: : 5700 Band edge

: N20

		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	5700.66	8.46	34.25	38.91	84.79	88.59	74.00	14.59
2	5725.00	8.48	34.24	38.92	45.67	49.47	74.00	-24.53

Note:

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

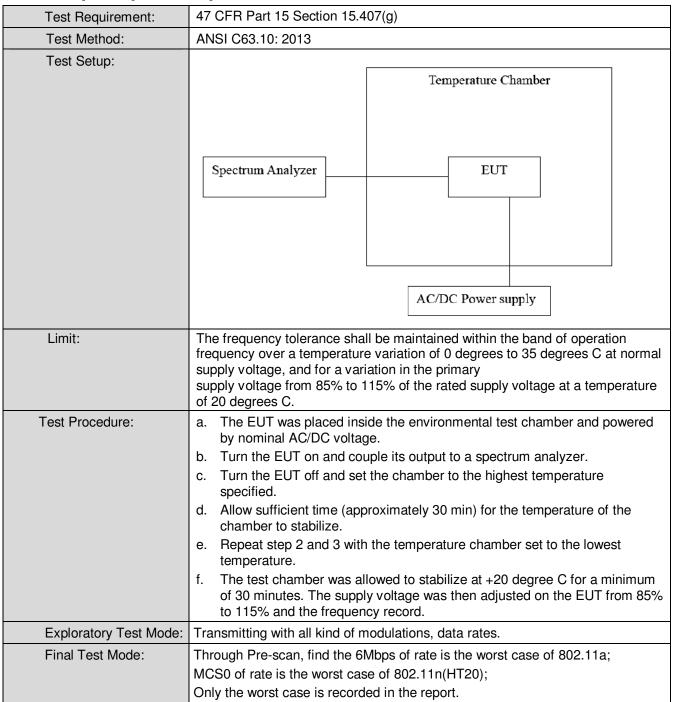
[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



Report No.: SZEM160400205405

Page: 101 of 109

6.9 Frequency Stability



[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms.e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



Report No.: SZEM160400205405

Page: 102 of 109

Test plot as follows:

Test mode: 802.11a		Frequency(MHz): 5	5180	
Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Result	
35	3.7	5181.2592	Pass	
25		5181.2600	Pass	
15		5181.2609	Pass	
5		5181.2603	Pass	
0		5181.2594	Pass	
20	3.145	5181.2599	Pass	
	3.7	5181.2600 Pass		
	4.255	5181.2610	Pass	

Test mode:	802.11a	Frequency(MHz): 5	200
Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Result
35	3.7	5201.2594	Pass
25		5201.2600	Pass
15		5201.2601	Pass
5		5201.2594	Pass
0		5201.2592	Pass
20	3.145	5201.2596	Pass
	3.7	5201.2600	Pass
	4.255	5201.2605	Pass

Test mode:	802.11a	Frequency(MHz): 5	240
Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Result
35	3.7	5241.2596	Pass
25		5241.2600	Pass
15		5241.2602	Pass
5		5241.2593	Pass
0		5241.2584	Pass
20	3.145	5241.2596	Pass
	3.7	5241.2600	Pass
	4.255	5241.2602	Pass



Report No.: SZEM160400205405

Page: 103 of 109

Test mode:	802.11a		Frequency(MHz):	5260	
Temperature (℃)	Voltage(VDC)	Mea	surement Frequency(MHz)		Result
35	3.7		5261.2591	Pass	
25			5261.2600		Pass
15			5261.2609		Pass
5			5261.2604		Pass
0			5261.2601		Pass
20	3.145		5261.2593		Pass
	3.7		5261.2600		Pass
	4.255		5261.2605		Pass

Test mode:	802.11a		Frequency(MHz):	5300	
Temperature (°C)	Voltage(VDC)	Mea	surement Frequency(MHz)		Result
35	3.7		5301.2595		Pass
25			5301.2600		Pass
15			5301.2603		Pass
5			5301.2598		Pass
0			5301.2592		Pass
20	3.145	5301.2593		Pass	
	3.7	5301.2600		5301.2600 Pa	
	4.255		5301.2603		Pass

Test mode: 802.11a		Frequency(MHz): 53	320
Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Result
35	3.7	5321.2593	Pass
25		5321.2600	Pass
15		5321.2601	Pass
5		5321.2595	Pass
0		5321.2594	Pass
20	3.145	5321.2597	Pass
	3.7	5321.2600	Pass
	4.255	5321.2604	Pass

[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms.e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



Report No.: SZEM160400205405

Page: 104 of 109

Test mode:	802.11a		Frequency(MHz):	5500	
Temperature (°C)	Voltage(VDC)	Mea	surement Frequency(MHz)		Result
35	3.7		5501.2591	Pass	
25			5501.2600		Pass
15			5501.2603		Pass
5			5501.2593		Pass
0			5501.2586		Pass
20	3.145	5501.2598		Pass	
	3.7		5501.2600		Pass
	4.255		5501.2607		Pass

Test mode:	802.11a		Frequency(MHz): 5600		
Temperature (°C)	Voltage(VDC)	Mea	surement Frequency(MHz)		Result
35	3.7		5601.1993		Pass
25			5601.2000		Pass
15			5601.2005		Pass
5			5601.1999		Pass
0			5601.1991		Pass
20	3.145	5601.1995		Pass	
	3.7		5601.2000		Pass
	4.255		5601.2009		Pass

Test mode:	802.11a		Frequency(MHz): 570)
Temperature (°C)	Voltage(VDC)	Mea	surement Frequency(MHz)		Result
35	3.7		5701.2591		Pass
25			5701.2600		Pass
15			5701.2608		Pass
5			5701.2606		Pass
0			5701.2598		Pass
20	3.145		5701.2592	Pass	
	3.7		5701.2600	5701.2600	
	4.255		5701.2608		Pass

[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sqs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sqs.com/terms.e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



Report No.: SZEM160400205405

Page: 105 of 109

Test mode:	802.11n(HT20		Frequency(MHz): 5180)
Temperature (°C)	Voltage(VDC)	Mea	surement Frequency(MHz)		Result
35	3.7		5181.2592		Pass
25			5181.2600		Pass
15			5181.2606	Pass	
5			5181.2604		Pass
0			5181.2596		Pass
20	3.145		5181.2595		Pass
	3.7		5181.2600		Pass
	4.255		5181.2605		Pass

Test mode:	802.11n(HT20)	802.11n(HT20)		Frequency(MHz): 5200	
Temperature (°C)	Voltage(VDC)	Mea	surement Frequency(MHz)		Result
35	3.7		5201.2594		Pass
25			5201.2600		Pass
15			5201.2601		Pass
5			5201.2594	Pass	
0			5201.2590		Pass
20	3.145		5201.2597		Pass
	3.7		5201.2600		Pass
	4.255		5201.2605	·	Pass

Test mode:	Test mode: 802.11n(HT20)		Frequency(MHz): 5240		0	
Temperature (°C)	٧	oltage(VDC)	age(VDC) Measureme		lz)	Result
35		3.7		5241.2591		Pass
25				5241.2600		Pass
15				5241.2607		Pass
5				5241.2601		Pass
0			5241.2599			Pass
20		3.145	5241.2597			Pass
		3.7	5241.2600		Pass	
		4.255	5241.2603			Pass

[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sqs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sqs.com/terms.e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



Report No.: SZEM160400205405

Page: 106 of 109

Test mode: 802.11n(HT2		Frequency(MHz):		5260	5260	
Temperature (°C)	Voltage(VDC)	Mea	surement Frequency(MHz)		Result	
35	3.7		5261.2593	Pass		
25			5261.2600		Pass	
15			5261.2602		Pass	
5			5261.2597		Pass	
0		5261.2596			Pass	
20	3.145		5261.2595		Pass	
	3.7		5261.2600		Pass	
	4.255		5261.2603		Pass	

Test mode:	de: 802.11n(HT20)		Frequency(MHz): 530)
Temperature (°C)	Voltage(VDC)	Voltage(VDC) Meas		surement Frequency(MHz)	
35	3.7		5301.2596		Pass
25			5301.2600		Pass
15			5301.2607		Pass
5			5301.2601		Pass
0		5301.2592			Pass
20	3.145	5301.2593		Pass	
	3.7		5301.2600		Pass
	4.255	5301.2609		Pass	

Test mode:	802.11n(HT20)	Frequency(MHz): 53	20
Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Result
35	3.7	5321.2594	Pass
25		5321.2600	Pass
15		5321.2609	Pass
5		5321.2606	Pass
0		5321.2602	Pass
20	3.145	5321.2595	Pass
	3.7	5321.2600	Pass
	4.255	5321.2603	Pass

[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms.e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



Report No.: SZEM160400205405

Page: 107 of 109

Test mode: 802.11n(HT2		802.11n(HT20)	Frequency(MHz): 550		0	
Temperature (°C)	Voltage(VDC) Mea		surement Frequency(MHz)		Result	
35		3.7	5501.2591		Pass	
25				5501.2600		Pass
15			5501.2609		Pass	
5				5501.2601		Pass
0			5501.2596			Pass
20		3.145	5501.2594		Pass	
		3.7		5501.2600		Pass
		4.255		5501.2606		Pass

Test mode: 802.11n(HT20)		Frequency(MHz):	5600
Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Result
35	3.7	5601.2590	Pass
25		5601.2600	Pass
15		5601.2606	Pass
5		5601.2601	Pass
0		5601.2596	Pass
20	3.145	5601.2591	Pass
	3.7	5601.2600	Pass
	4.255	5601.2601	Pass

Test mode:	802.11n(HT20)	Frequency(MHz): 57		5700	
Temperature (°C)	Voltage(VDC)	Mea	surement Frequency(MHz)		Result	
35	3.7		5701.2594		Pass	
25			5701.2600		Pass	
15			5701.2602		Pass	
5			5701.2594		Pass	
0		5701.2589			Pass	
20	3.145		5701.2593		Pass	
	3.7		5701.2600		Pass	
	4.255	5701.2610			Pass	

[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sqs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sqs.com/terms.e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



Report No.: SZEM160400205405

Page: 108 of 109

7 Photographs - EUT Test Setup

Test model No.: PIC A1051.00

7.1 Conducted Emission



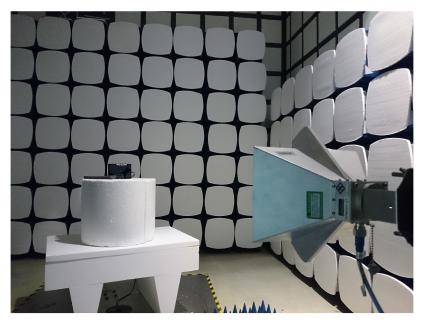
7.2 Radiated Spurious Emission





Report No.: SZEM160400205405

Page: 109 of 109



8 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for SZEM1604002054CR.