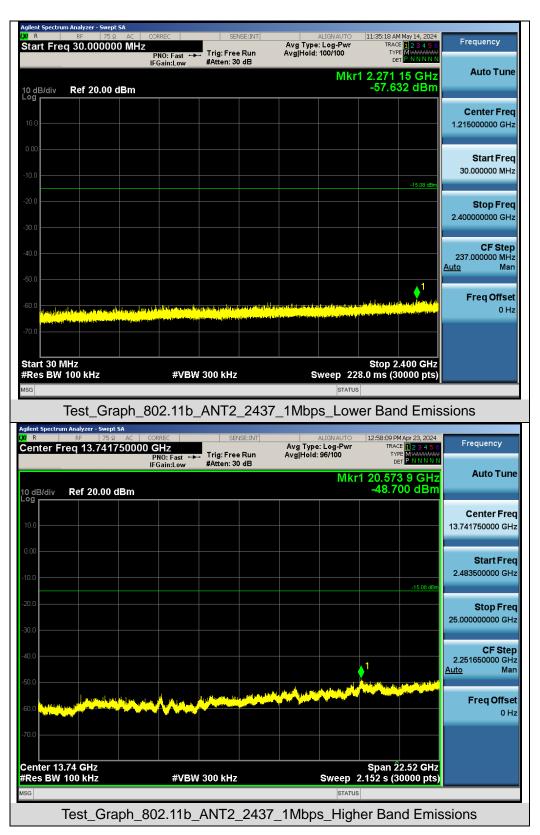
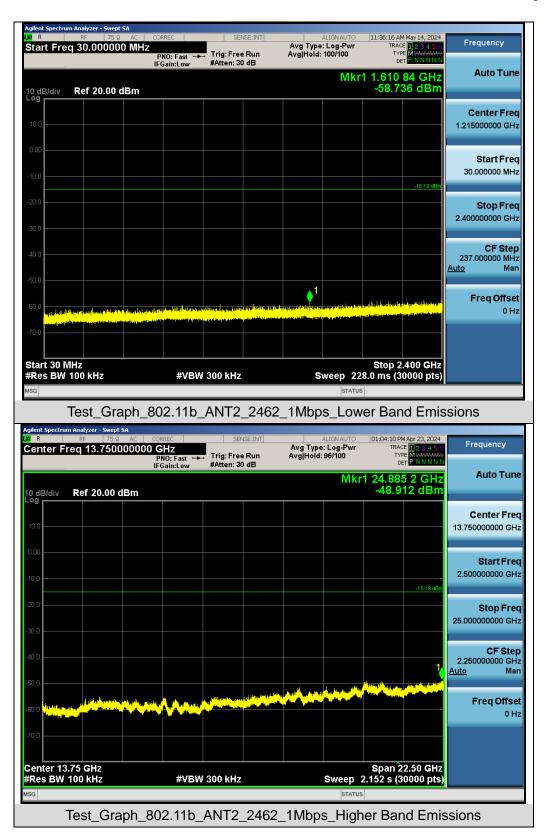
Report No.: AGC16253240402FR03 Page 81 of 125





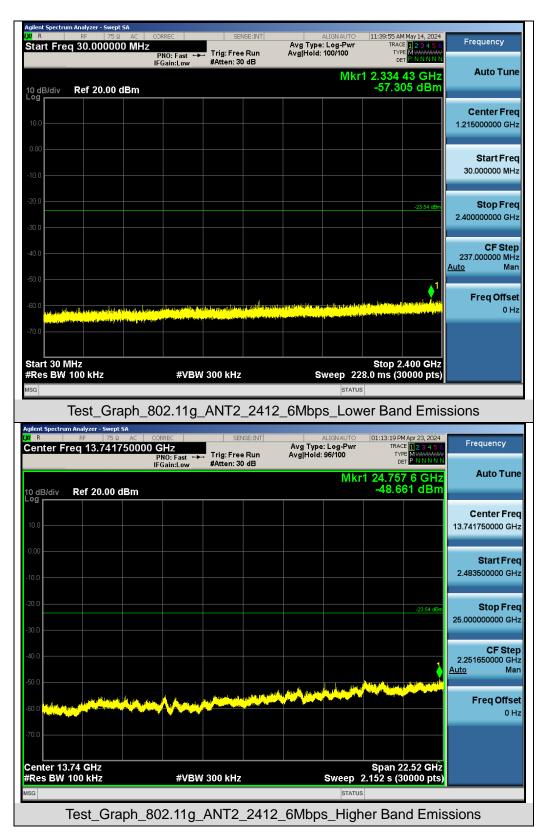
Report No.: AGC16253240402FR03 Page 82 of 125





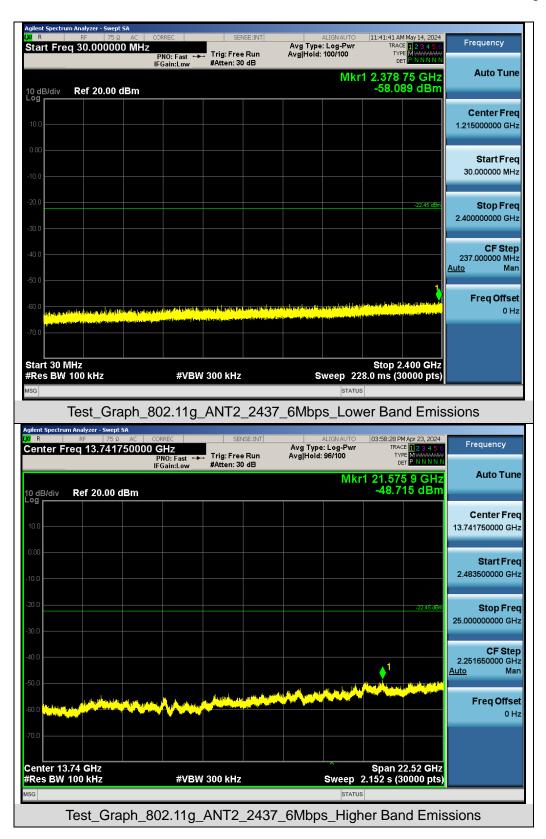
Report No.: AGC16253240402FR03 Page 83 of 125





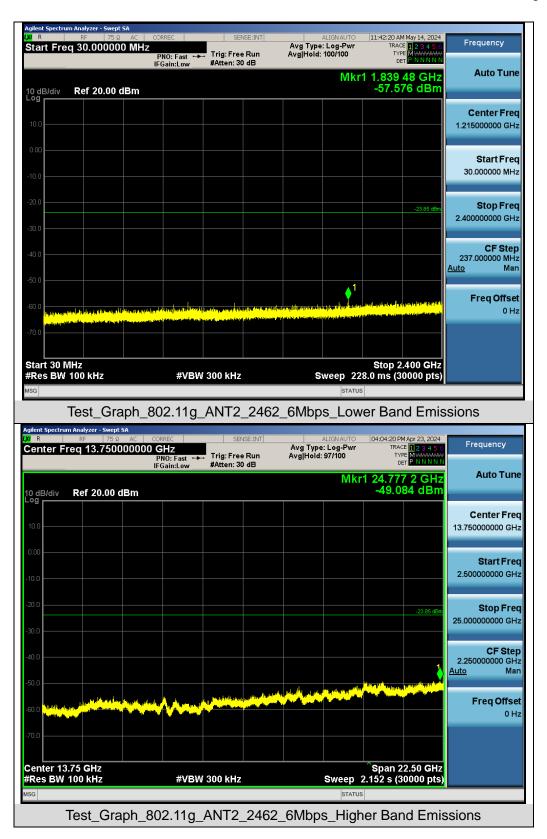
Report No.: AGC16253240402FR03 Page 84 of 125





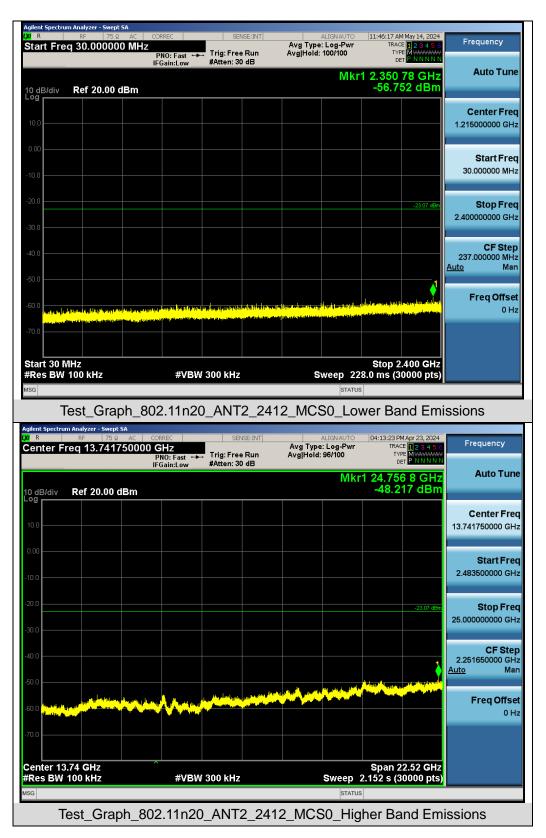
Report No.: AGC16253240402FR03 Page 85 of 125





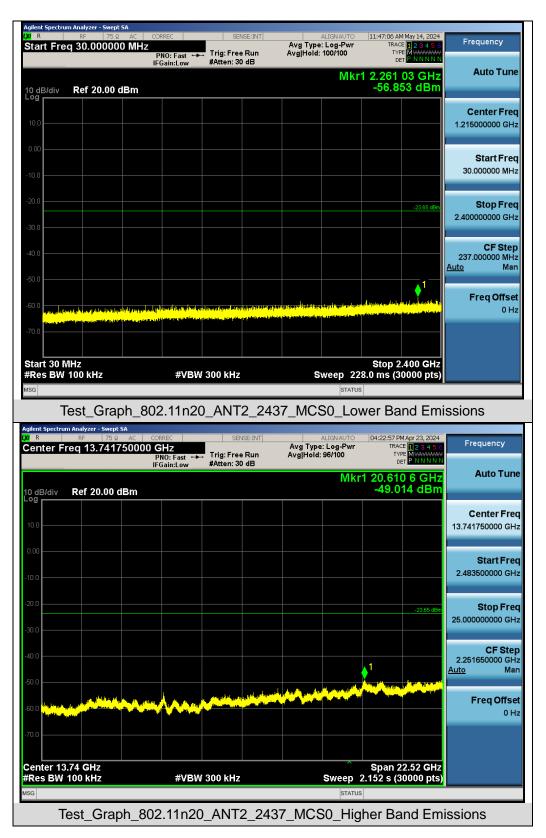
Report No.: AGC16253240402FR03 Page 86 of 125





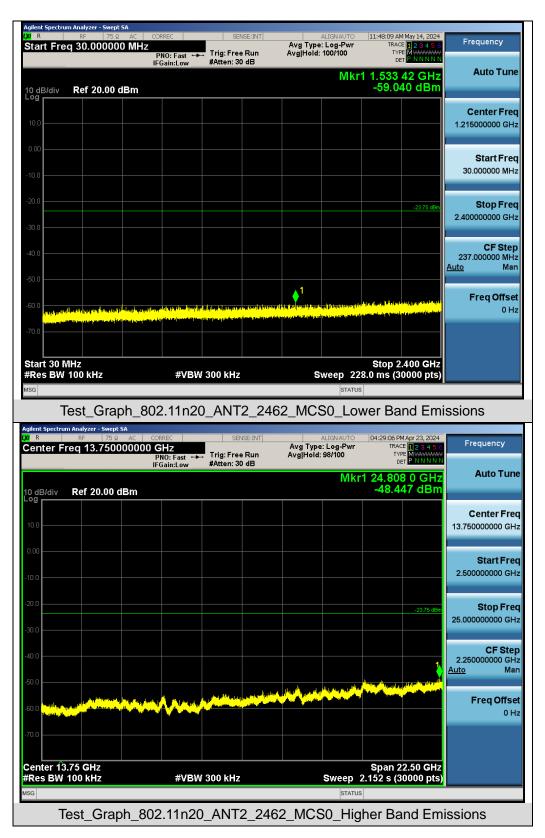
Report No.: AGC16253240402FR03 Page 87 of 125





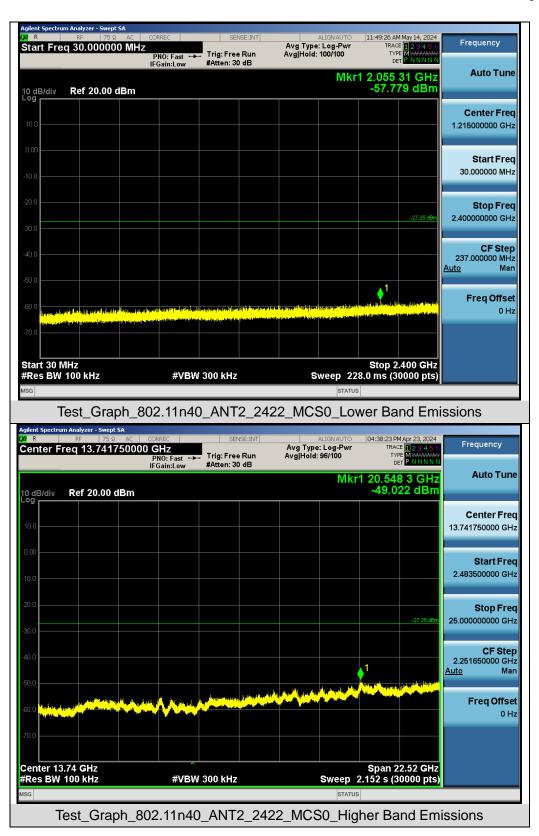
Report No.: AGC16253240402FR03 Page 88 of 125





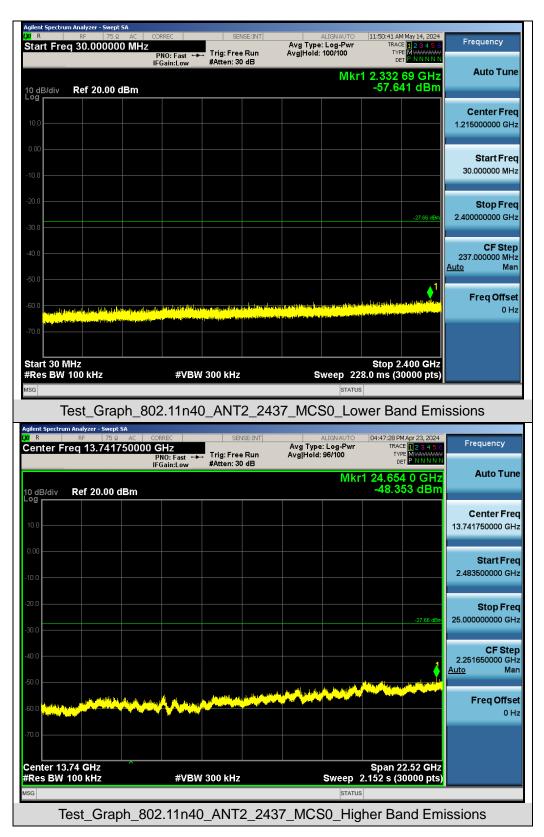
Report No.: AGC16253240402FR03 Page 89 of 125





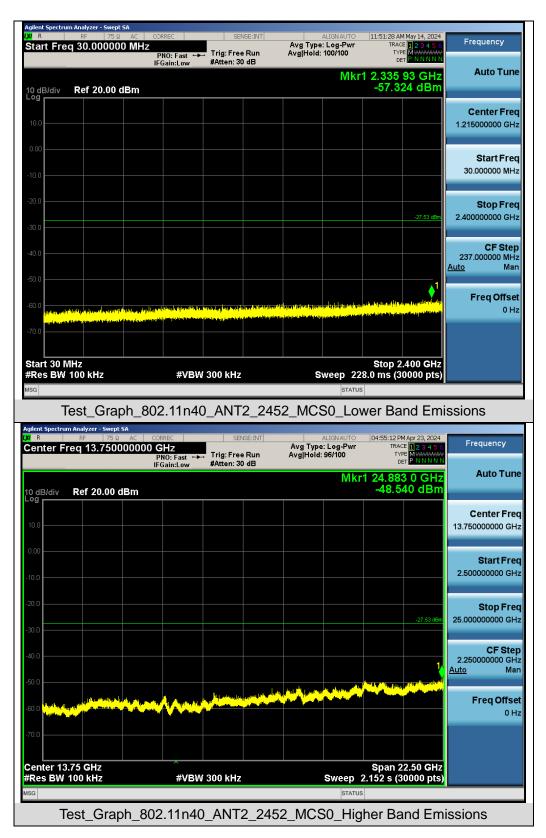
Report No.: AGC16253240402FR03 Page 90 of 125





Report No.: AGC16253240402FR03 Page 91 of 125









Test Graphs of Band Edge Emissions in Non-Restricted Frequency Bands

Report No.: AGC16253240402FR03 Page 93 of 125



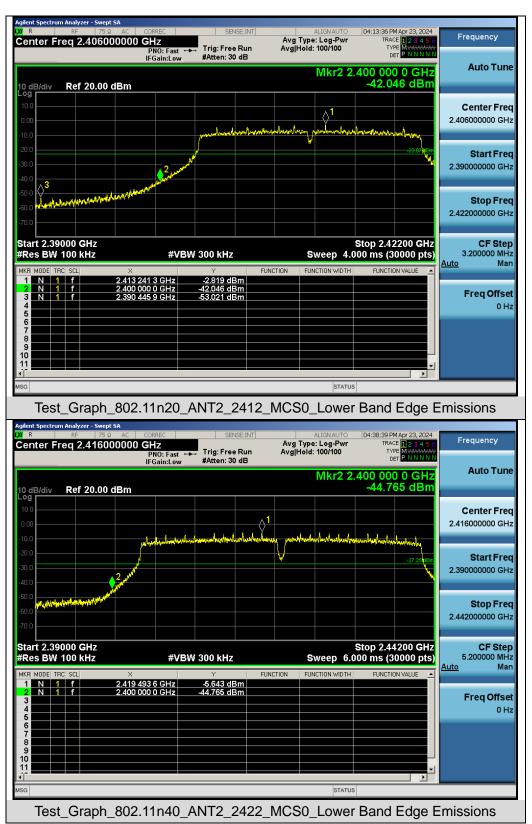






Report No.: AGC16253240402FR03 Page 95 of 125





Note: Emissions from 2483.5-2500MHz which fall in the restricted bands had been considered with the radiated emission limits specified.



11. Radiated Spurious Emission

11.1 Measurement Limits

15.209(a) Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note: All modes were tested for restricted band radiated emission, the test records reported below are the worst result compared to other modes.

11.2 Measurement Procedure

- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emission, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds.
 Any redating alternative (provided the transmitter operates for longer than 0.1 seconds), or in cases where the

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pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.

- 8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.
- The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	1GHz~26.5GHz
Start ~Stop Trequency	1MHz/3MHz for Peak, 1MHz/3MHz for Average

Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP



• Quasi-Peak Measurements below 1GHz

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. Span was set greater than 1MHz
- 3. RBW = as shown in the table above
- 4. Detector = CISPR quasi-peak
- 5. Sweep time = auto couple
- 6. Trace was allowed to stabilize

• Peak Measurements above 1GHz

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW = 3MHz
- 4. Detector = peak
- 5. Sweep time = auto couple
- 6. Trace mode = max hold
- 7. Trace was allowed to stabilize

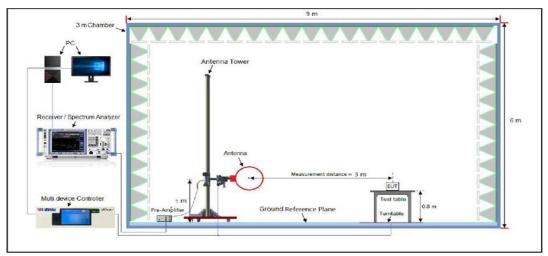
• Average Measurements above 1GHz (Method VB)

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW setting requirements are as follows:
- 4. If the EUT is configured to transmit with duty cycle \ge 98%, set VBW = 10 Hz.
- 5. If the EUT duty cycle is < 98%, set VBW \ge 1/T. T is the minimum transmission duration.
- 6. Detector = Peak
- 7. Sweep time = auto
- 8. Trace mode = max hold

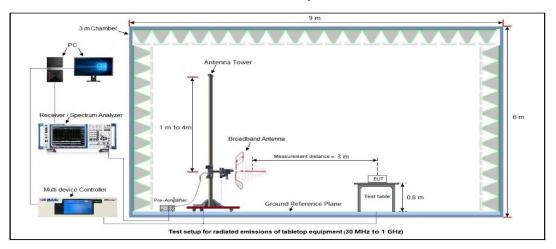


11.3 Measurement Setup (Block Diagram of Configuration)

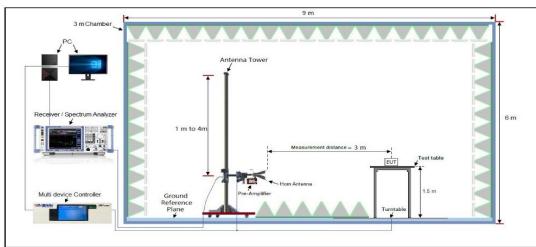




Radiated Emission Test Setup 30MHz-1000MHz



Radiated Emission Test Setup Above 1000MHz



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11.4 Measurement Result

Radiated Emission at 9kHz-30MHz

The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

			Radiate	ed Emiss	ion Test Res	ults at 30MHz	z-1GHz			
EUT N	ame	Set Top E	Зох			Model Nan	ne	SEI700B2	2MW	
Tempe	erature	22.8°C Relative Humidity				58.3%				
Pressu	ure	960hPa				Test Voltag	je	Normal Voltage ity Horizontal		
Test M	ode	Mode 3				Antenna P	olarity			
	130 120 110 100 90 80 70 70 60 50 50 40 30 20 10 0 30M		e		FCC Part 15C		Aller and a start of the start			
	•	- QP Limit	Horizontal PK	100M	Frequency[Hz]			1G	
Peak D	* Data List		Horizontal PK	100M	Frequency[Hz	1			16	
Peak D		QP Detector	Horizontal PK	Factor [dB]	Frequency[Hz Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
	ata List Freq	QP Detector . L [] [dE	evel	Factor	Limit	Margin				
NO.	Pata List Freq [MHz	QP Detector . L [] [dE 1 2	₋evel βµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	[cm]	[°]	Polarity	
NO. 1	Pata List Freq [MHz 52.3	QP Detector . L [] [dE 1 2 4 3	_evel 3μV/m] 23.47	Factor [dB] 15.83	Limit [dBµV/m] 40.00	Margin [dB] 16.53	[cm] 100	[°] 105	Polarity Horizontal	
NO. 1 2	Pata List Freq [MHz 52.3 109.5	QP Detector . L [] [dE 1 2 :4 3 '7 3	_evel 3μV/m] 23.47 31.56	Factor [dB] 15.83 16.57	Limit [dBµV/m] 40.00 43.50	Margin [dB] 16.53 11.94	[cm] 100 100	[°] 105 5	Polarity Horizontal Horizontal	
NO. 1 2 3	Pata List Freq [MHz 52.3 109.5 166.7	AP Detector . L [d] [dE 1 2 4 3 7 3 8 3	-evel 3μV/m] 23.47 31.56 32.69	Factor [dB] 15.83 16.57 16.04	Limit [dBµV/m] 40.00 43.50 43.50	Margin [dB] 16.53 11.94 10.81	[cm] 100 100 100	[°] 105 5 209	Polarity Horizontal Horizontal Horizontal	
NO. 1 2 3 4	Pata List Freq [MHz 52.3 109.5 166.7 218.1	QP Detector . L [dE] [dE] 1 2 :4 3 '7 3 8 3 !1 3	evel 3μV/m] 23.47 31.56 32.69 34.12	Factor [dB] 15.83 16.57 16.04 12.04	Limit [dBµV/m] 40.00 43.50 43.50 46.00	Margin [dB] 16.53 11.94 10.81 11.88	[cm] 100 100 100 100	[°] 105 5 209 4	Polarity Horizontal Horizontal Horizontal Horizontal	
NO. 1 2 3 4 5 6	Pata List Freq [MHz 52.3 109.5 166.7 218.1 450.0	QP Detector . L [dE] [dE] 1 2 :4 3 '7 3 8 3 !1 3	Level 3μV/m] 23.47 31.56 32.69 34.12 35.03	Factor [dB] 15.83 16.57 16.04 12.04 21.92	Limit [dBµV/m] 40.00 43.50 43.50 46.00 46.00	Margin [dB] 16.53 11.94 10.81 11.88 10.97	[cm] 100 100 100 100 100	[°] 105 5 209 4 234	Polarity Horizontal Horizontal Horizontal Horizontal Horizontal	



			Radiate	ed Emissie	on Test Resu	Its at 30MHz	-1GHz		
EUT Na	ame	Set	Тор Вох			Model Nan	ne	SEI700B2	MW
Tempe	rature	22.8°C			Relative Humidity 58.3%				
Pressu	ire	960ł	nPa			Test Voltage Normal Voltage			oltage
Test M	ode	Mode 3 Antenna Polarity Vertical							
		QP Limit QP Detector		100M	FCC Part 15C				16
Final D	ata List								
NO.	Freq [MHz		Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	70.74	1	30.17	14.45	40.00	9.83	100	78	Vertical
2	109.5	4	35.70	16.57	43.50	7.80	100	332	Vertical
3	240.4	9	31.35	15.92	46.00	14.65	100	215	Vertical
4	463.5	9	34.79	23.86	46.00	11.21	100	239	Vertical
5	618.7	9	35.38	25.79	46.00	10.62	100	11	Vertical
6	834.1	3	42.09	28.79	46.00	3.91	100	324	Vertical

RESULT: Pass

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.



Radiated Emissions	Test Results above 1 G	θHz
--------------------	------------------------	-----

UT Name						I Name	SEI700B2	2MW
emperature	rature 22.8°C				Relati	elative Humidity 58.3%		
Pressure		960hPa			Test Voltage		Normal Voltage	
est Mode		Mode 1			Anter	nna Polarity	Horizonta	I
		1						
Frequency	Met	er Reading	Factor	Emissio	n Level	Limits	Margin	Value Type
(MHz)		(dBµV)	(dB)	(dBµ\	//m)	(dBµV/m)	(dB)	value Type
4824.000		46.56	0.08	46.6	64	74	-27.36	peak
4824.000		37.77	0.08	37.8	85	54	-16.15	AVG
7236.000		41.08	2.21	43.2	29	74	-30.71	peak
7236.000		32.61	2.21	34.8	82	54	-19.18	AVG
Remark:								
Factor = Ante	nna Fa	actor + Cabl	e Loss – Pre-	amplifier.				_
EUT Name	nna Fa	actor + Cabl		-amplifier.	Mode	l Name	SEI700B2	2MW
				amplifier.		l Name ive Humidity	SEI700B2	2MW
EUT Name		Set Top Bo		-amplifier.	Relati			
UT Name Temperature		Set Top Bo 22.8°C		amplifier.	Relati	ive Humidity	58.3%	
EUT Name Temperature Pressure Test Mode		Set Top Bo 22.8°C 960hPa Mode 1	X		Relati Test \ Anter	ive Humidity /oltage nna Polarity	58.3% Normal V Vertical	
EUT Name emperature Pressure Frequency		Set Top Bo 22.8°C 960hPa Mode 1 er Reading	Factor	Emissio	Relati Test \ Anter	ive Humidity /oltage nna Polarity Limits	58.3% Normal V Vertical Margin	
EUT Name Femperature Pressure Fest Mode Frequency (MHz)		Set Top Bo 22.8°C 960hPa Mode 1 er Reading (dBµV)	Factor (dB)	Emissio (dBµ\	Relati Test V Anter n Level	ive Humidity /oltage nna Polarity Limits (dBµV/m)	58.3% Normal Vertical Margin (dB)	oltage Value Type
EUT Name Femperature Pressure Fest Mode Frequency (MHz) 4824.000		Set Top Bo 22.8°C 960hPa Mode 1 er Reading (dBµV) 46.36	Factor (dB) 0.08	Emissio (dBµ\ 46.4	Relati Test V Anter n Level //m)	ive Humidity /oltage nna Polarity Limits (dBµV/m) 74	58.3% 58.3% Normal V Vertical Margin (dB) -27.56	oltage - Value Type peak
EUT Name Temperature Pressure Test Mode Frequency (MHz) 4824.000 4824.000		Set Top Bo 22.8°C 960hPa Mode 1 er Reading (dBµV) 46.36 37.11	Factor (dB) 0.08 0.08	Emissio (dBµ\ 46.4 37.4	Relati Test V Anter n Level //m) 44	Limits (dBµV/m) 74 54	58.3% Normal V Vertical Margin (dB) -27.56 -16.81	oltage Value Type peak AVG
EUT Name emperature Pressure Fest Mode Frequency (MHz) 4824.000 4824.000 7236.000		Set Top Bo 22.8°C 960hPa Mode 1 er Reading (dBµV) 46.36 37.11 41.85	Factor (dB) 0.08 0.08 2.21	Emissio (dBµ\ 46. 37. 44.(Relati Test V Anter n Level //m) 44 19 06	ive Humidity /oltage nna Polarity Limits (dBµV/m) 74 54 74	58.3% Normal V Vertical Margin (dB) -27.56 -16.81 -29.94	oltage Value Type peak AVG peak
EUT Name Temperature Pressure Test Mode Frequency (MHz) 4824.000 4824.000		Set Top Bo 22.8°C 960hPa Mode 1 er Reading (dBµV) 46.36 37.11	Factor (dB) 0.08 0.08	Emissio (dBµ\ 46.4 37.4	Relati Test V Anter n Level //m) 44 19 06	Limits (dBµV/m) 74 54	58.3% Normal V Vertical Margin (dB) -27.56 -16.81	oltage Value Type peak AVG
EUT Name emperature Pressure Fest Mode Frequency (MHz) 4824.000 4824.000 7236.000		Set Top Bo 22.8°C 960hPa Mode 1 er Reading (dBµV) 46.36 37.11 41.85	Factor (dB) 0.08 0.08 2.21	Emissio (dBµ\ 46. 37. 44.(Relati Test V Anter n Level //m) 44 19 06	ive Humidity /oltage nna Polarity Limits (dBµV/m) 74 54 74	58.3% Normal V Vertical Margin (dB) -27.56 -16.81 -29.94	oltage Value Type peak AVG peak

RESULT: Pass



Radiated	Emissions	Test	Results	above	1GHz
----------	-----------	------	---------	-------	------

(MHz) (dBµV) (dB) (dBµVm) (dBµVm) (dB) (dB) 4874.000 46.77 0.08 46.85 74 -27.15 peak 4874.000 37.73 0.08 37.81 54 -16.19 AVG 7311.000 41.08 2.21 43.29 74 -30.71 peak 7311.000 32.40 2.21 34.61 54 -19.39 AVG Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Image: Comparison of the sector of th	EUT Name		Set Top Box				Name	SEI700B2I	WW	
Test Mode Mode 2 Antenna Polarity Horizontal Frequency Meter Reading Factor Emission Level Limits Margin Value Type (MHz) (dBµV) (dB) (dBµV/m) (dB) Value Type 4874.000 46.77 0.08 46.85 74 -27.15 peak 4874.000 37.73 0.08 37.81 54 -16.19 AVG 7311.000 41.08 2.21 43.29 74 -30.71 peak 7311.000 32.40 2.21 34.61 54 -19.39 AVG Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.	Temperature	22.8°C			Relativ	Relative Humidity58.3%				
Frequency Meter Reading Factor Emission Level Limits Margin Value Type (MHz) (dBµV) (dB) (dBµV/m) (dBµV/m) (dB) Value Type 4874.000 46.77 0.08 46.85 74 -27.15 peak 4874.000 37.73 0.08 37.81 54 -16.19 AVG 7311.000 41.08 2.21 43.29 74 -30.71 peak 7311.000 32.40 2.21 34.61 54 -19.39 AVG Remark:	Pressure				tage					
(MHz) (dBµV) (dB) (dBµV/m) (dBµV/m) (dB) Value Type 4874.000 46.77 0.08 46.85 74 -27.15 peak 4874.000 37.73 0.08 37.81 54 -16.19 AVG 7311.000 41.08 2.21 43.29 74 -30.71 peak 7311.000 32.40 2.21 34.61 54 -19.39 AVG Remark:	Test Mode					Anten	na Polarity	Horizontal		
(M+z) (dBµV) (dB) (dBµV/m) (dBµV/m) (dB) (dBµV/m) (dB) (dBµV/m) (dB) (dBµV/m) (dB) (dBµV/m) (dB) (dBµV/m) (dB)	_				<u> </u>				1	
4874.000 46.77 0.08 46.85 74 -27.15 peak 4874.000 37.73 0.08 37.81 54 -16.19 AVG 7311.000 41.08 2.21 43.29 74 -30.71 peak 7311.000 32.40 2.21 34.61 54 -19.39 AVG Remark:		Met	Ű					-	Value Type	
4874.000 37.73 0.08 37.81 54 -16.19 AVG 7311.000 41.08 2.21 43.29 74 -30.71 peak 7311.000 32.40 2.21 34.61 54 -19.39 AVG Remark:	· · · ·		,		· · ·	,	· · · /			
Total Difference Tele Tele <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>· · ·</td>									· · ·	
7311.000 32.40 2.21 34.61 54 -19.39 AVG Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Model Name SEI700B2MW Feetarise Factor = Antenna Factor + Cable Loss – Pre-amplifier. EUT Name Set Top Box Model Name SEI700B2MW Femperature 22.8°C Relative Humidity 58.3% Pressure 960hPa Test Voltage Normal Voltage Frequency Meter Reading Factor Emission Level Limits Margin Value Type (MHz) (dBµV) (dBµV/m) (dBµV/m) Value Type (MHz) (dBµV) (dBµV/m) (dBµV/m) Value Type (MHz) (dBµV) (dBµV/m) (dBµV/m) Value Type G Colspan= 46.82 74 <td col<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td>	<td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. EUT Name Set Top Box Model Name SEI700B2MW Temperature 22.8°C Relative Humidity 58.3% Pressure 960hPa Test Voltage Normal Voltage Test Mode Mode 2 Antenna Polarity Vertical Frequency Meter Reading Factor Emission Level Limits Margin Value Type (MH2) (dBµV) (dB) (dBµV/m) (dB) Value Type 4874.000 46.74 0.08 37.63 54 -16.37 AVG 7311.000 41.51 2.21 43.72 74 -30.28 peak 7311.000 32.28 2.21 34.49 54 -19.51 AVG Remark: Image: Normal Voltage Image: Normal Voltage Image: Normal Voltage Image: Normal Voltage									· ·	
Factor = Antenna Factor + Cable Loss – Pre-amplifier. EUT Name Set Top Box Model Name SEI700B2MW Temperature 22.8°C Relative Humidity 58.3% Pressure 960hPa Test Voltage Normal Voltage Test Mode Mode 2 Antenna Polarity Vertical Frequency Meter Reading Factor Emission Level Limits Margin Value Type (MHz) (dBµV) (dB) (dBµV/m) (dBµV/m) (dB) Value Type 4874.000 37.55 0.08 37.63 54 -16.37 AVG 7311.000 41.51 2.21 43.72 74 -30.28 peak 7311.000 32.28 2.21 34.49 54 -19.51 AVG Remark:	7311.000		32.40	2.21	34.	61	54	-19.39	AVG	
Temperature 22.8°C Relative Humidity 58.3% Pressure 960hPa Test Voltage Normal Voltage Test Mode Mode 2 Antenna Polarity Vertical Frequency Meter Reading Factor Emission Level Limits Margin Value Type (MHz) (dBµV) (dB) (dBµV/m) (dBµV/m) (dB) Peak 4874.000 37.55 0.08 37.63 54 -16.37 AVG 7311.000 41.51 2.21 43.72 74 -30.28 peak 7311.000 32.28 2.21 34.49 54 -19.51 AVG Remark: Kemark: Kemark Kemark Kemark Kemark Kemark Kemark										
Pressure 960hPa Test Voltage Normal Voltage Mode 2 Antenna Polarity Vertical Frequency Meter Reading Factor Emission Level Limits Margin Value Type (MHz) (dBµV) (dB) (dBµVm) (dBµVm) (dB) Value Type 4874.000 46.74 0.08 46.82 74 -27.18 peak 4874.000 37.55 0.08 37.63 54 -16.37 AVG 7311.000 41.51 2.21 43.72 74 -30.28 peak 7311.000 32.28 2.21 34.49 54 -19.51 AVG Remark: Image Image Image Image Image Image						Medel	News	05170000		
Frequency Meter Reading Factor Emission Level Limits Margin Value Type (MHz) (dBµV) (dB) (dBµV/m) (dBµV/m) (dB) Value Type 4874.000 46.74 0.08 46.82 74 -27.18 peak 4874.000 37.55 0.08 37.63 54 -16.37 AVG 7311.000 41.51 2.21 43.72 74 -30.28 peak 7311.000 32.28 2.21 34.49 54 -19.51 AVG Remark:				x					MW	
Frequency Meter Reading Factor Emission Level Limits Margin Value Type (MHz) (dBμV) (dB) (dBμV/m) (dBµV/m) (dB) Value Type 4874.000 46.74 0.08 46.82 74 -27.18 peak 4874.000 37.55 0.08 37.63 54 -16.37 AVG 7311.000 41.51 2.21 43.72 74 -30.28 peak 7311.000 32.28 2.21 34.49 54 -19.51 AVG Remark:				x					MW	
(MHz) (dBµV) (dB) (dBµV/m) (dBµV/m) (dB) Value Type 4874.000 46.74 0.08 46.82 74 -27.18 peak 4874.000 37.55 0.08 37.63 54 -16.37 AVG 7311.000 41.51 2.21 43.72 74 -30.28 peak 7311.000 32.28 2.21 34.49 54 -19.51 AVG Remark:	Temperature		22.8°C	x		Relativ	ve Humidity	58.3%		
(MHz) (dBµV) (dB) (dBµV/m) (dBµV/m) (dB) Value Type 4874.000 46.74 0.08 46.82 74 -27.18 peak 4874.000 37.55 0.08 37.63 54 -16.37 AVG 7311.000 41.51 2.21 43.72 74 -30.28 peak 7311.000 32.28 2.21 34.49 54 -19.51 AVG Remark:	Temperature Pressure		22.8°C 960hPa	x		Relativ Test V	ve Humidity oltage	58.3% Normal Vo		
4874.000 46.74 0.08 46.82 74 -27.18 peak 4874.000 37.55 0.08 37.63 54 -16.37 AVG 7311.000 41.51 2.21 43.72 74 -30.28 peak 7311.000 32.28 2.21 34.49 54 -19.51 AVG Remark:	Temperature Pressure Test Mode	Met	22.8°C 960hPa Mode 2		Emissio	Relativ Test V Anten	ve Humidity oltage na Polarity	58.3% Normal Vo Vertical	ltage	
4874.000 37.55 0.08 37.63 54 -16.37 AVG 7311.000 41.51 2.21 43.72 74 -30.28 peak 7311.000 32.28 2.21 34.49 54 -19.51 AVG Remark:	Temperature Pressure Test Mode Frequency	Met	22.8°C 960hPa Mode 2 er Reading	Factor		Relativ Test V Anten	ve Humidity oltage na Polarity Limits	58.3% Normal Vo Vertical Margin		
7311.000 41.51 2.21 43.72 74 -30.28 peak 7311.000 32.28 2.21 34.49 54 -19.51 AVG Remark:	Temperature Pressure Test Mode Frequency (MHz)	Met	22.8°C 960hPa Mode 2 er Reading (dBμV)	Factor (dB)	(dBµ'	Relativ Test V Anten on Level	ve Humidity oltage na Polarity Limits (dBµV/m)	58.3% Normal Vo Vertical Margin (dB)	Value Type	
7311.000 32.28 2.21 34.49 54 -19.51 AVG Remark:	Temperature Pressure Test Mode Frequency (MHz) 4874.000	Met	22.8°C 960hPa Mode 2 er Reading (dBµV) 46.74	Factor (dB) 0.08	(dBµ) 46.	Relativ Test V Anten on Level V/m) 82	ve Humidity oltage na Polarity Limits (dBµV/m) 74	58.3% Normal Vo Vertical Margin (dB) -27.18	Value Type	
	Temperature Pressure Test Mode Frequency (MHz) 4874.000 4874.000	Met	22.8°C 960hPa Mode 2 er Reading (dBµV) 46.74 37.55	Factor (dB) 0.08 0.08	(dBµ) 46. 37.	Relativ Test V Anten on Level V/m) 82 63	ve Humidity oltage na Polarity Limits (dBµV/m) 74 54	58.3% Normal Vo Vertical Margin (dB) -27.18 -16.37	Value Type Peak AVG	
Factor = Antenna Factor + Cable Loss – Pre-amplifier.	Temperature Pressure Test Mode Frequency (MHz) 4874.000 4874.000 7311.000	Met	22.8°C 960hPa Mode 2 er Reading (dBµV) 46.74 37.55 41.51	Factor (dB) 0.08 0.08 2.21	(dBµ) 46. 37. 43.	Relativ Test V Anten on Level V/m) 82 63 72	ve Humidity oltage na Polarity Limits (dBµV/m) 74 54 74	58.3% Normal Vo Vertical Margin (dB) -27.18 -16.37 -30.28	Value Type Peak AVG peak	
	Temperature Pressure Test Mode Frequency (MHz) 4874.000 4874.000 7311.000 7311.000	Met	22.8°C 960hPa Mode 2 er Reading (dBµV) 46.74 37.55 41.51	Factor (dB) 0.08 0.08 2.21	(dBµ) 46. 37. 43.	Relativ Test V Anten on Level V/m) 82 63 72	ve Humidity oltage na Polarity Limits (dBµV/m) 74 54 74	58.3% Normal Vo Vertical Margin (dB) -27.18 -16.37 -30.28	Value Type peak AVG peak	

RESULT: Pass



Radiated Emissions Test Results above 1GHz

EUT Name Set Top Box					Model Name		SEI700B2MW		
Temperature	pperature 22.8°C			Relativ	Relative Humidity 58.3%				
Pressure	e 960hPa				Test Vo	Test Voltage		Normal Voltage	
Test Mode 3					Antenr	na Polarity	Horizonta	al	
Frequency	Meter	eter Reading Factor Emis		Emissi	ion Level	Limits	Margin	Value Typ	
(MHz)	(d	IBμV)	(dB)	(dBj	µV/m)	(dBµV/m)	(dB)	value Typ	
4924.000	4	6.36	0.08	46	5.44	74	-27.56	peak	
4924.000	3.	7.30	0.08	37	7.38	54	-16.62	AVG	
7386.000	4	1.43	2.21	43	3.64	74	-30.36	peak	
7386.000	3:	2.76	2.21	34	1.97	54	-19.03	AVG	
Factor = Anten	na Faci	tor + Cable	Loss – Pre-	ampimer.					
		Set Top Box		ampiller.	Model	Name	SEI700B	2MW	
EUT Name	S				Model	Name ve Humidity	SEI700B	2MW	
EUT Name Temperature	S	Set Top Box			Model	e Humidity			
EUT Name Temperature Pressure	S 2 9	Set Top Box 2.8°C			Model Relativ Test Vo	e Humidity	58.3%		
EUT Name Temperature Pressure Test Mode	S 2 9 N	Set Top Box 22.8°C 960hPa Aode 3			Model Relativ Test Vo Antenr	ve Humidity oltage na Polarity	58.3% Normal \ Vertical	/oltage	
EUT Name Temperature Pressure Test Mode Frequency	S 2 9 N	Set Top Box 22.8°C 960hPa Aode 3 ter Reading	Factor	Emissio	Model Relativ Test Vo Antenr	ve Humidity oltage na Polarity Limits	58.3% Normal \ Vertical		
EUT Name Temperature Pressure Test Mode Frequency (MHz)	S 2 9 N	Set Top Box 22.8°C 960hPa Mode 3 ter Reading (dBµV)	Factor (dB)	Emissio (dBµ	Model Relativ Test Vo Antenr	Limits (dBµV/m)	58.3% Normal \ Vertical Margin (dB)	/oltage Value Type	
EUT Name Temperature Pressure Test Mode Frequency (MHz) 4924.000	S 2 9 N	Set Top Box 2.8°C 960hPa Mode 3 ter Reading (dBµV) 46.48	Factor (dB) 0.08	Emissic (dBµ 46	Model Relativ Test Vo Antenr on Level	Limits (dBµV/m) 74	58.3% Normal \ Vertical Margin (dB) -27.44	/oltage Value Type peak	
EUT Name Temperature Pressure Test Mode Frequency (MHz) 4924.000 4924.000	S 2 9 N	Set Top Box 22.8°C 960hPa Aode 3 ter Reading (dBµV) 46.48 37.32	Factor (dB) 0.08 0.08	Emissic (dBµ 46. 37	Model Relativ Test Vo Antenr on Level V/m) .56	ve Humidity oltage ha Polarity Limits (dBμV/m) 74 54	58.3% 58.3% Normal \ Vertical Margin (dB) -27.44 -16.60	/oltage Value Type peak AVG	
EUT Name Temperature Pressure Test Mode Frequency (MHz) 4924.000	S 2 9 N	Set Top Box 2.8°C 960hPa Mode 3 ter Reading (dBµV) 46.48	Factor (dB) 0.08	Emissio (dBµ 46 37 43	Model Relativ Test Vo Antenr on Level	Limits (dBµV/m) 74	58.3% Normal \ Vertical Margin (dB) -27.44	/oltage Value Type peak	
EUT Name Temperature Pressure Test Mode Frequency (MHz) 4924.000 7386.000	S 2 9 N	Set Top Box 22.8°C 960hPa Mode 3 ter Reading (dBµV) 46.48 37.32 41.48	Factor (dB) 0.08 0.08 2.21	Emissio (dBµ 46 37 43	Model Relativ Test Vo Antenr Dn Level IV/m) .56 .40 .69	Limits (dBµV/m) 74 54 74	58.3% Normal \ Vertical Margin (dB) -27.44 -16.60 -30.31	/oltage Value Type peak AVG peak	
EUT Name Temperature Pressure Test Mode Frequency (MHz) 4924.000 7386.000	S 2 9 N	Set Top Box 22.8°C 960hPa Mode 3 ter Reading (dBµV) 46.48 37.32 41.48	Factor (dB) 0.08 0.08 2.21	Emissio (dBµ 46 37 43	Model Relativ Test Vo Antenr Dn Level IV/m) .56 .40 .69	Limits (dBµV/m) 74 54 74	58.3% Normal \ Vertical Margin (dB) -27.44 -16.60 -30.31	/oltage Value Type peak AVG peak	

RESULT: Pass

Note:

- 1. The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.
- 2. Factor = Antenna Factor + Cable loss Pre-amplifier gain, Margin = Emission Level-Limit.



3. The "Factor" value can be calculated automatically by software of measurement system.

Band Edge Emission Test Results for Restricted Bands

EUT Name	Set Top Box	Model Name	SEI700B2MW
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna Polarity	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: Pass

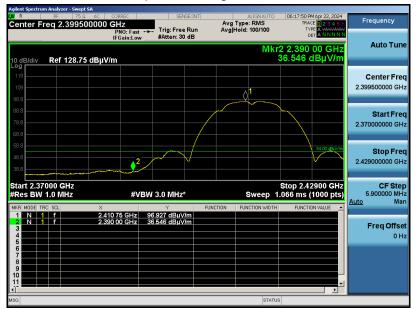


EUT Name	Set Top Box	Model Name	SEI700B2MW
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna Polarity	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: Pass



EUT Name	Set Top Box	Model Name	SEI700B2MW
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna Polarity	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: Pass

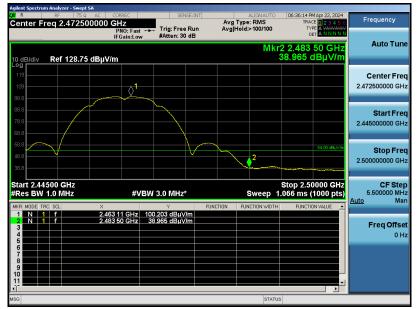


EUT Name	Set Top Box	Model Name	SEI700B2MW
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna Polarity	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: Pass

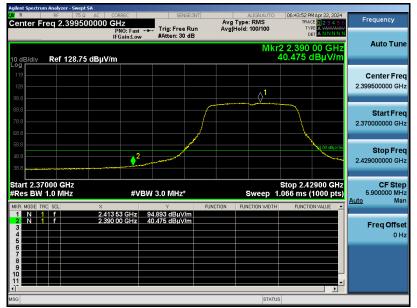


EUT Name	Set Top Box	Model Name	SEI700B2MW
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 4	Antenna Polarity	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: Pass

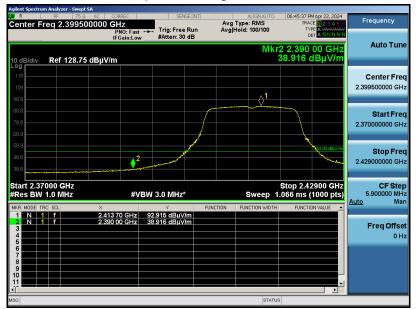


EUT Name	Set Top Box	Model Name	SEI700B2MW
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 4	Antenna Polarity	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: Pass

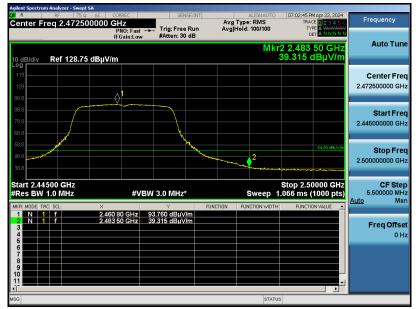


EUT Name	Set Top Box	Model Name	SEI700B2MW
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 6	Antenna Polarity	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: Pass

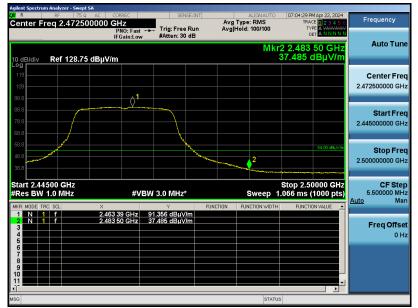


EUT Name	Set Top Box	Model Name	SEI700B2MW
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 6	Antenna Polarity	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: Pass

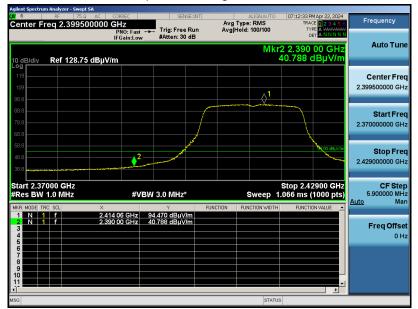


EUT Name	Set Top Box	Model Name	SEI700B2MW
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna Polarity	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: Pass

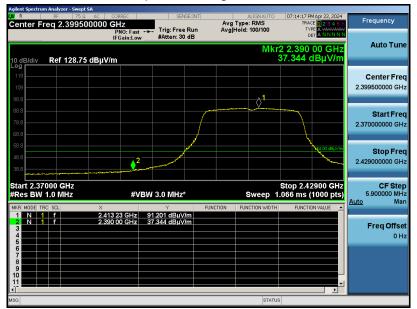


EUT Name	Set Top Box	Model Name	SEI700B2MW
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna Polarity	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: Pass

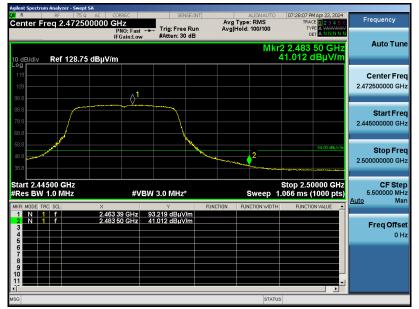


EUT Name	Set Top Box	Model Name	SEI700B2MW
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 9	Antenna Polarity	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: Pass

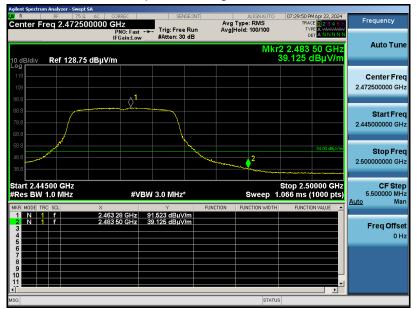


EUT Name	Set Top Box	Model Name	SEI700B2MW
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 9	Antenna Polarity	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: Pass

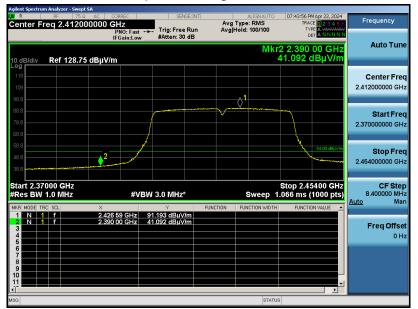


EUT Name	Set Top Box	Model Name	SEI700B2MW
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 10	Antenna Polarity	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: Pass

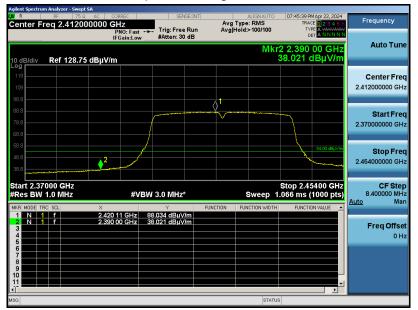


EUT Name	Set Top Box	Model Name	SEI700B2MW
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 10	Antenna Polarity	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: Pass



EUT Name	Set Top Box	Model Name	SEI700B2MW
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 12	Antenna Polarity	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: Pass



EUT Name	Set Top Box	Model Name	SEI700B2MW
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 12	Antenna Polarity	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: Pass

Note: The factor had been edited in the "Input Correction" of the Spectrum Analyzer.



12. AC Power Line Conducted Emission

12.1 Measurement Limits

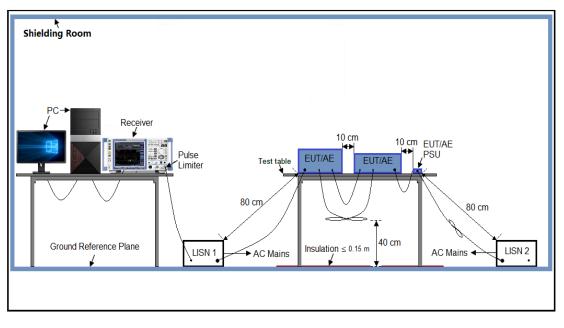
Frequency	Maximum RF Line Voltage		
Frequency	Q.P (dBµV)	Average (dBµV)	
150kHz~500kHz	66-56	56-46	
500kHz~5MHz	56	46	
5MHz~30MHz	60	50	

Note:

1. The lower limit shall apply at the transition frequency.

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

12.2 Block Diagram of Line Conducted Emission Test





12.3 Preliminary Procedure of Line Conducted Emission Test

- 1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. All support equipment received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received DC 12V power from adapter which received AC120V/60Hz power from a LISN.
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 Ohm load; the second scan had Line 1 connected to a 50 Ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

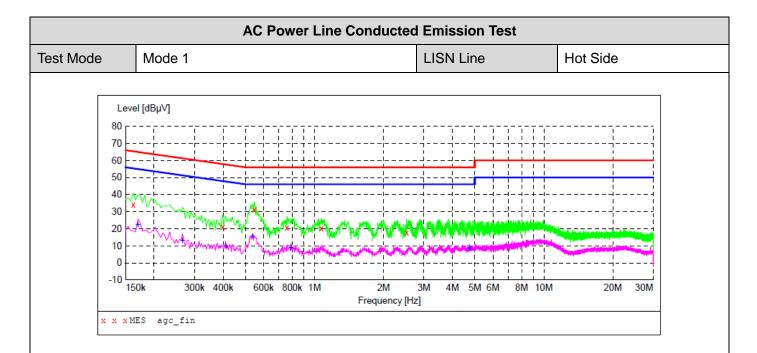
Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

12.4 Final Procedure of Line Conducted Emission Test

- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less – 2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 3. The test data of the worst case was reported on the Summary Data page.

12.5 Test Result of Line Conducted Emission Test





MEASUREMENT RESULT: "agc fin"

2024/4/18 10:	51					
Frequency	Level	Transd	Limit	Margin	Detector	Line
MHz	dBµV	dB	dBµV	dB		
0.162000	34.00	6.1	65	31.4	QP	L1
0.398000	21.00	6.1	58	36.9	QP	L1
0.546000	31.10	6.2	56	24.9	QP	L1
0.758000	20.90	6.2	56	35.1	QP	L1
1.070000	20.40	6.2	56	35.6	QP	L1
2.522000	17.80	6.3	56	38.2	QP	L1

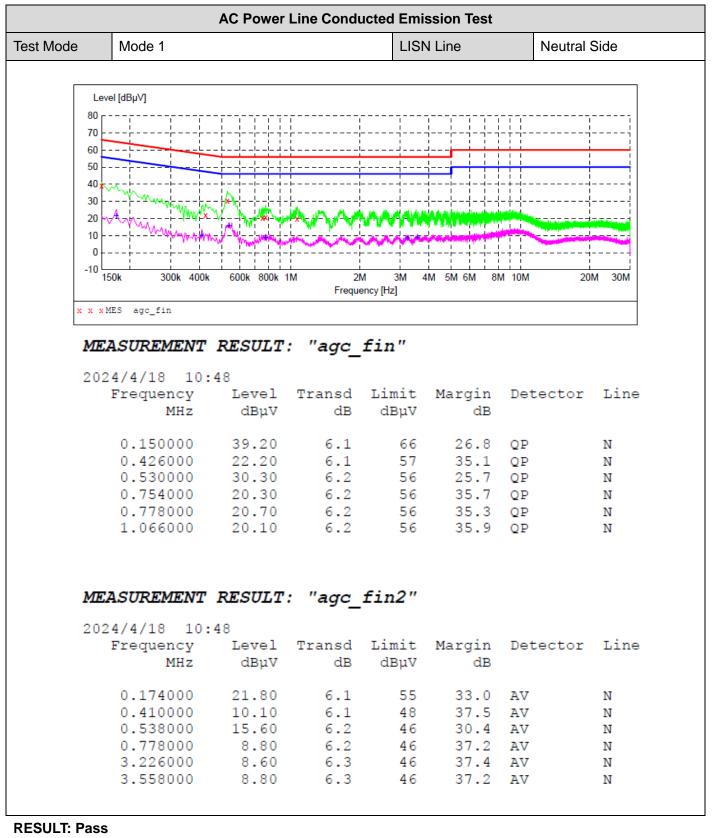
MEASUREMENT RESULT: "agc_fin2"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.170000	22.40	6.1	55	32.6	AV	L1
0.266000	13.10	6.1	51	38.1	AV	L1
0.410000	9.90	6.1	48	37.7	AV	L1
0.538000	15.90	6.2	46	30.1	AV	L1
0.790000	9.00	6.2	46	37.0	AV	L1
4.738000	8.50	6.3	46	37.5	AV	L1

RESULT: Pass Any report naving not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Any report naving not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Any report naving not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Any report naving not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection" Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

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Appendix I: Photographs of Test Setup

Refer to the Report No.: AGC16253240402AP01

Appendix II: Photographs of Test EUT

Refer to the Report No.: AGC16253240402AP02

-----End of Report-----



Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the "Clients").

2. Any report issued by Company as a result of this application for testing services (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.

3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.

4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.

5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.

6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.

7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.

8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.

9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.