

ELECTROMAGNETIC EMISSIONS **COMPLIANCE REPORT**



Applicant: Manufacturer:	silex technology, Inc. 2-3-1 Hikaridai, Seika-cho, Soraku-gun, Kyoto 619-0237, Japan silex technology, Inc. 2-3-1 Hikaridai, Seika-cho, Soraku-gun, Kyoto 619-0237, Japan
Product Name:	AP-800AX
Brand Name:	Silex Technology
Model No.:	AP-800AX
Model Difference:	N/A
Report Number:	TERF2303000754ER
FCC ID	N6C-AP800AX
IC:	4908A-AP800AX
Date of EUT Received:	March 29, 2023
Date of Test:	March 29, 2023 \sim July 10, 2023
Issue Date:	August 21, 2023

Approved By______ Blue Yang

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.407, ISED RSS-247.

The results of this report relate only to the sample identified in this report.

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.

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Revision History					
Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2303000754ER	00	Original.	July 20, 2023	Susan Lin	
TERF2303000754ER	01	Update channel number in section 1.3	August 21, 2023	Susan Lin	*

Note:

1 The remark "*" indicates modification of the report upon requests from certification body.

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GENERAL INFORMATION 1

1.1 **Product Description**

Product Name:	AP-800AX
Brand Name:	Silex Technology
Model No.:	AP-800AX
Model Difference:	N/A
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	000001814
Power Supply:	12Vdc

1.2 **DFS Firmware version:**

Series Name	silex
Product Name	AP-800AX
Version	1.0.069
MAC Address	1c:bc:ec:00:07:16
Access Point Name	SX000716

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1.3 FCC WLAN 5GHz:

Wi-Fi	Frequency Range	Channels	Modulation Technology
a/	5180~5240	4	OFDMA
n_HT/	5260~5320	4	OFDMA
ac_VHT/ ax_HE	5500~5720	12	OFDM
20M	5745-5825	5	OFDM
- UT	5190~5230	2	OFDM
n_HT ac_VHT/	5270~5310	2	OFDM
ax_HE 40M	5510~5710	6	OFDM
4010	5755-5795	2	OFDM
	5210	1	OFDMA
ac_VHT/	5290	1	OFDM
ax_HE 80M	5530~5690	3	OFDM
	5775	1	OFDM

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IC WLAN 5GHz:

WLAN 5 GHz for ISED (Master)

Wi-Fi	Frequency Range	Channels	Modulation Technology
	5180~5240	4	OFDMA
a/	5260~5320	4	OFDMA
n_HT/	(*)5500~5700	8	OFDM
ac_VHT/ ax_HE	5720 (U-NII 2C)	1	OFDM
20M	5720 (U-NII 3)	1	OFDMA
	5745-5825	5	OFDM
	5190~5230	2	OFDM
n HT	5270~5310	2	OFDM
ac_VHT/	(*)5510~5670	3	OFDM
ax_HE 40M	5710 (U-NII 2C)	1	OFDM
4010	5710 (U-NII 3)	1	OFDMA
	5755-5795	2	OFDM
	5210	1	OFDMA
	5290	1	OFDM
ac_VHT/ ax_HE	5530	1	OFDM
80M	5690 (U-NII 2C)	1	OFDM
	5690 (U-NII 3)	1	OFDM
	5775	1	OFDM

*Note : TDWR frequencies are not available in Canada.

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1.4 Antenna Designation

Antenna Type	Ch0/Ch1	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)	Directional Gain (dBi)
			5150~5250	1.1	4.11
		ANTDP-039A0	5250~5350	1.1	4.11
	Ch0 Dipole		5470~5725	1.2	4.21
Dipolo			5725~5850	1.3	4.31
Dipole			5150~5250	1.1	4.11
			5250~5350	1.1	4.11
	Ch1	Ch1	5470~5725	1.2	4.21
			5725~5850	1.3	4.31

Note:

- 1. Pre-scanned was done on the above antennas, measurements were demonstrated by using the antenna with the highest gain as the worst case scenarios.
- 2. Antenna information is provided by the applicant.

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1.5 **Test Methodology of Applied Standards**

FCC Part 15, Subpart E §15.407

FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02 RSS-247 issue 2 Feb. 2017

Test Facility 1.6

Laboratory	Test Site Address	Test Site Name	FCC Designa- tion number	IC CAB identifier
		SAC 1		
		SAC 2		
		SAC 3		
	No 124 Wu Kung Dood Now Toingi	Conduction 1		
	No.134, Wu Kung Road, New Taipei	Conducted 1	TW0027	
	Industrial Park, Wuku District, New Taipei City, Taiwan.	Conducted 2	100027	
	Taiper City, Taiwan.	Conducted 3		
		Conducted 4		
		Conducted 5		
SGS Taiwan Ltd.		Conducted 6		
Central RF Lab.		Conduction C		TW3702
(TAF code 3702)		SAC C		
		SAC D		
		SAC G		
	No. 9. Koji dat Del - Oviak an District	Conducted A]	
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conducted B	TW0028	
	Tabyuan City, Taiwan 555	Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
		Conducted G		

1.7 **Special Accessories**

There are no special accessories used while test was conducted.

1.8 **Equipment Modifications**

There was no modification incorporated into the EUT.

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SUMMARY OF TEST RESULT 2

FCC and ISED Rules	Description Of Test	Result
§15.407(h) FCC KDB 905462 D02 IC RSS-247 issue 1 §6.3	TPC and DFS Measurement	Compliant

3 MEASUREMENT UNCERTAINTY

Test Items	Test Items Unce		nty
TPC and DFS Measurement	+/-	1.04	Hz
Temperature	+/-	0.7	°C
Humidity	+/-	3	%
DC / AC Power Source	+/-	1	%

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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4 TPC AND DFS MEASUREMENT

4.1 TPC Requirements

According to Part 15.407 (h)(1) Transmit power control (TPC). U-NII devices operating in the 5.25-5.35 GHz band and the 5.47-5.725 GHz band shall employ a TPC mechanism. The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm. A TPC mechanism is not required for systems with an e.i.r.p. of less than 500 mW.

Result:

N/A, e.i.r.p is less then 500 mW, TPC is not required.

4.2 DFS: Standard Applicable

According to §15.407(h)(2) and FCC KDB 905462 D02, Radar Detection Function of Dynamic Frequency Selection (DFS).

Radar Detection Function of Dynamic Frequency Selection (DFS). U-NII devices operating with any part of its 26 dB emission bandwidth in the 5.25-5.35 GHz and 5.47-5.725 GHz bands shall employ a DFS radar detection mechanism to detect the presence of radar systems and to avoid co-channel operation with radar systems. Operators shall only use equipment with a DFS mechanism that is turned on when operating in these bands. The device must sense for radar signals at 100 percent of its emission bandwidth. The minimum DFS detection threshold for devices with a maximum e.i.r.p. of 200 mW to 1 W is -64 dBm. For devices that operate with less than 200 mW e.i.r.p. and a power spectral density of less than 10 dBm in a 1 MHz band, the minimum detection threshold is -62 dBm. The detection threshold is the received power averaged over 1 microsecond referenced to a 0 dBi antenna. For the initial channel setting, the manufacturers shall be permitted to provide for either random channel selection or manual channel selection.

- (i) Operational Modes. The DFS requirement applies to the following operational modes:
 - (a) The requirement for channel availability check time applies in the master operational mode.
 - (b) The requirement for channel move time applies in both the master and slave operational modes.
- (ii) Channel Availability Check Time. A U-NII device shall check if there is a radar system already operating on the channel before it can initiate a transmission on a channel and when it has to move to a new channel. The U-NII device may start using the channel if no radar signal with a power level greater than the interference threshold values listed in paragraph (h)(2) of this section, is detected within 60 seconds.
- (iii) Channel Move Time. After a radar's presence is detected, all transmissions shall cease on the operating channel within 10 seconds. Transmissions during this period shall consist of normal traffic for a maximum of 200 ms after detection of the radar signal. In addition, intermittent management and control signals can be sent during the remaining time to facilitate vacating the operating channel.

Non-occupancy Period. A channel that has been flagged as containing a radar system,

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either by a channel availability check or in-service monitoring, is subject to a non-occupancy period of at least 30 minutes. The non-occupancy period starts at the time when the radar system is detected.

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5 APPLICABLE STANDARDS

Table 1: Applicability of DFS requirements prior to use of a channel

	Operational Mode			
Requirement	Master	Client(without radar detection)	Client(with radar detection)	
Non-occupancy Period	Yes	Not required	Yes	
DFS Detection Threshold	Yes	Not required	Yes	
Channel Availability Check Time	Yes	Not required	Not required	
U-NII Detection Band- width	Yes	Not required	Yes	

Table 2: Applicability of DFS requirements during normal operation

	Operational Mode						
Requirement	Master Device or Client with Radar Detection	Client Without Radar Detection					
DFS Detection Threshold	Yes	Not required					
Cannel Closing Transmis- sion time	Yes	Yes					
Channel Move time	Yes	Yes					
U-NII Detection Bandwidth	Yes	Not required					

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Additional requirements for devices with multiple bandwidth mode	Master Device or Client with Radar Detection	Client Without Radar Detection		
U-NII Detection Bandwidth and Statistical Perfor- mance Check	All BW modes must be tested	Not required		
Channel Move Time and Channel Closing Trans- mission Time	Test using widest BW mode available	Test using the widest BW mode available for the link		
All other tests	Any single BW mode	Not required		
clude several frequencies w edge of the radar detection l	for statistical performance cheo ithin the radar detection bandwi bandwidth. For 802.11 devices ded 20 MHz channels and the c	dth and frequencies near the it is suggested to select fre-		

Table 3: Interference Threshold values, Master or Client incorporating In-Service Monitoring

Maximum Transmit Power	Value (See Notes 1, 2, and 3)							
EIRP ≥ 200 milliwatt	-64 dBm							
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm							
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm							
Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna. Note 2: Throughout these test procedures an additional 1 dB has been added to the ampli- tude of the test transmission waveforms to account for variations in measurement equip- ment. This will ensure that the test signal is at or above the detection threshold level to trig- ger a DFS response. Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publica- tion 662911 D01.								

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Table 4: DFS Response requirement values

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 sec- ond period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

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Table 5: Radar Test Waveforms

Short Pulse Radar

Radar	Pulse	PRI	Number of Pulses	Minimum	Minimum
Type	Width	(µsec)		Percentage of	Number
	(µsec)			Successful	of
				Detection	Trials
0	1	1428	18	See Note 1	See Note
					1
1	1	Test A: 15 unique	$\left(\begin{pmatrix} 1 \end{pmatrix} \right)$	60%	30
		PRI values	$\left(\frac{1}{360}\right)$		
		randomly selected	Roundun		
		from the list of 23	(19.10 ⁶)		
		PRI values in	PRI		
		Table 5a	[(μsec)]		
		Test B: 15 unique			
		PRI values			
		randomly selected			
		within the range			
		of 518-3066 µsec,			
		with a minimum			
		increment of 1			
		µsec, excluding			
		PRI values			
		selected in Test A			
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types	1-4)		80%	120
			sed for the detection ba	ndwidth test, ch	annel move
time, and cl	nannel closing	g time tests.			

Long Pulse Radar

Radar Type	Pulse Width (µsec)	Chirp Width (MHz)	PRI (µsec)	Number of Pulses per Burst	Number of <i>Bursts</i>	Minimum Percentage of Successful Detection	Minimum Number of Trials
5	50-100	5-20	1000- 2000	1-3	8-20	80%	30

Frequency Hopping Radar

Radar	Pulse	PRI	Pulses	Hopping	Hopping	Minimum	Minimum
Туре	Width (µsec)	(µsec)	per Hop	Rate (kHz)	Sequence Percentage of Length Successful		Number of Trials
					(msec)	Detection	
6	1	333	9	0.333	300 70%		30

The applicant of this given application confirms that information regarding the parameters of the detected Radar Waveforms is not available to the end user.

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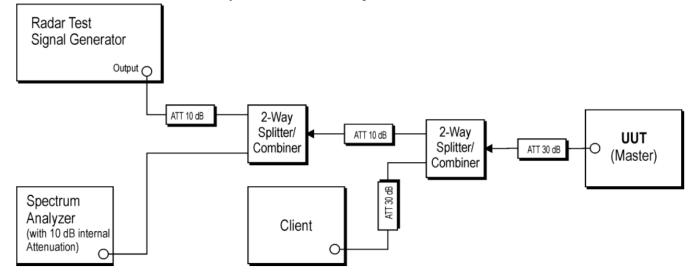
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Setup for Master with injection at the Master



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TEST EQUIPMENT USED: 7

	Conducted Emission Test Site: Conducted 6									
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.					
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60240503	12/13/2022	12/12/2023					
Signal Generator	KEYSIGHT	N5182B	MY61252553	09/22/2022	09/21/2023					
Test Software	KEYSIGHT	N7607B Signal Stdio for DFS Radar profile	Ver. 3.2.0.0	N.C.R	N.C.R					
DC Block	Mini-Circuits	BLK-18-S+	1	12/13/2022	12/12/2023					
Power Divider	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-017	12/13/2022	12/12/2023					
Power Divider	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-018	12/13/2022	12/12/2023					
Power Divider	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-020	12/13/2022	12/12/2023					
Power Divider	RF-LAMBDA	RFLT2W1G18G	18112200209	12/13/2022	12/12/2023					
Attenuator	Agilent	8495B	3308A22470	12/13/2022	12/12/2023					
Attenuator	HP	8494B	2812A17605	12/13/2022	12/12/2023					

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8 DESCRIPTION OF EUT:

EUT is a Master device with radar detection and DFS capability.

Timing plots are required with calculations demonstrating a minimum channel loading of approximately 17% or greater.

The rated output power of the master unit is \geq 23dBm(EIRP).therefore the required interference threshold level is -64dBm.after correction for antenna gain and procedural adjustments, the required conducted threshold at the antenna port is -64dBm.

The rated output power of the master unit is <23 dBm(EIRP).therefore the required interference threshold level is -62dBm.after correction for antenna gain and procedural adjustments, the required threshold at the antenna port is -62dBm.

DFS Detection Threshold (dBm) = -64 + G (dBi), for conducted test.

DFS Detection Threshold (dBm)	Minimum of Peak Antenna Gain (dBi)	Threshold for test (dBm)
-62	1.1	-60.9

While calibrate the path on antenna port of DFS test equipment (master), measurements equipments (spectrum) is ensured to be 50 Ohms, and therefore verification on antenna gain measurement can be ignored.

The EUT uses one transmitter/receiver chains and one receive only chain, each connected to an antenna to perform radiated tests.

The Slave device associated with the EUT during these tests does not have radar detection capability.

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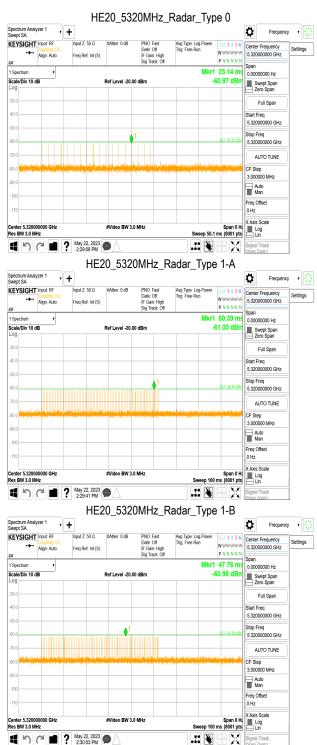
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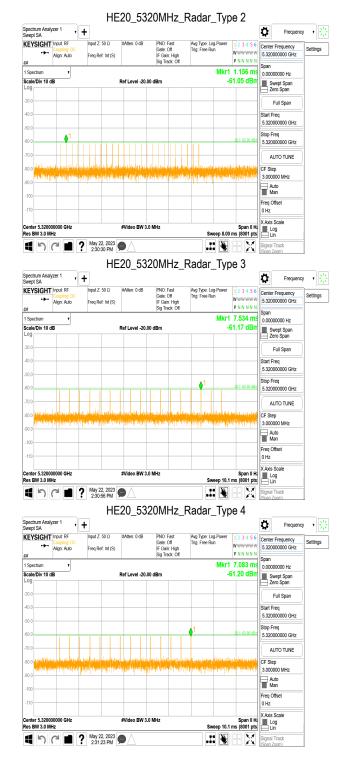
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RADAR TYPE WAVEFORM CALIBRATION AT DFS DETECTION THESHOLD 9





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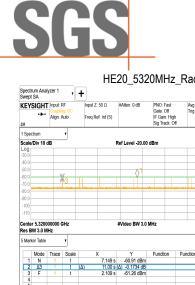
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HE20 5320MHz Radar Type 5 Ö

Frequency v

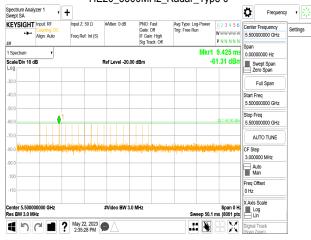
Frequency v

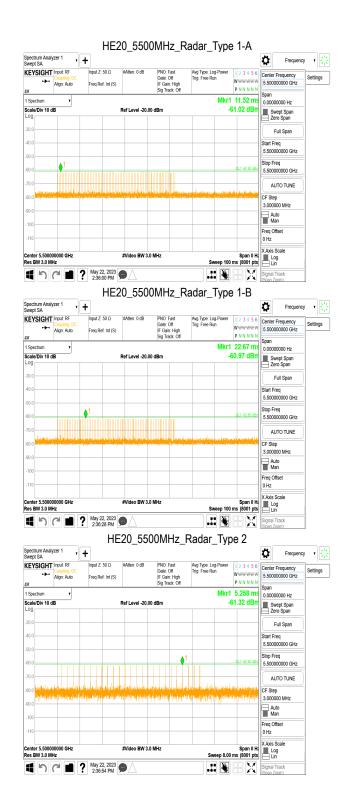
wept SA		Ŀ						
EYSIGHT	Input: RF Coupling: DC Align: Auto		put Z: 50 Ω eq Ref: Int (S)	#Atten: 0 dB	PNO: Fast Gate: Off IF Gain: Hig Sig Track: C			5.32000000 GHz
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cale/Div 10 c	iB			Ref Level -20.00	dBm		-0.17	dB Swept Span Zero Span
0.0								Full Span
50.0 30.0 70.0	¥3			01			¢2Δ3,«	Start Freq 5.32000000 GHz
10.0								Stop Freq 5.32000000 GHz
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4 N	C 🔳	? ⁵	Nay 22, 2023 2:32:34 PM					Signal Track (Span Zoom)

HE20_5320MHz_Radar_Type 6 · +



HE20_5500MHz_Radar_Type 0





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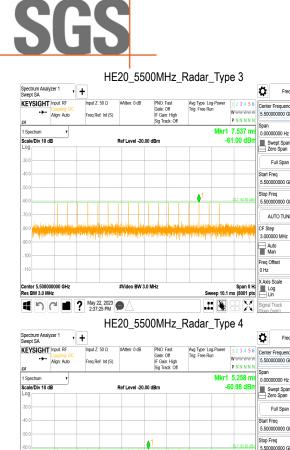
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Settings

Frequency

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Center Fr

5 50000000 GH

Full Span

Start Freq 5.50000000 GHz

Stop Freq 5.50000000 GHz

AUTO TUNE

CF Step

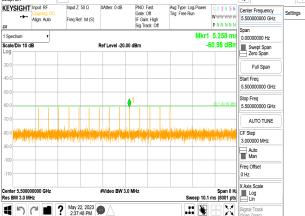
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Freq Offse 0 Hz

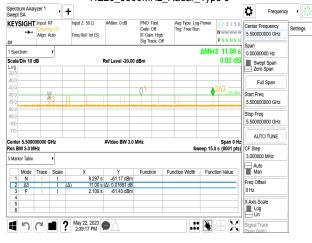
X Axis Scale

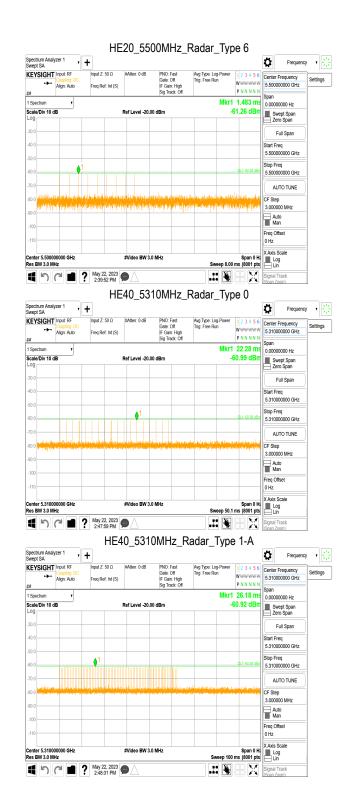
Frequency v

3.000000 MHz



HE20_5500MHz_Radar_Type 5





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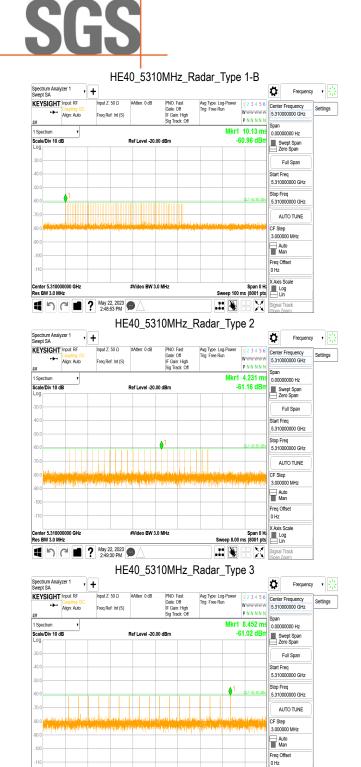
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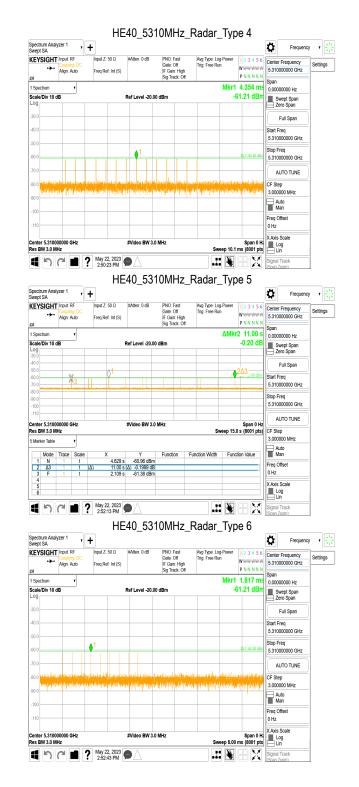
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(Axis Scale

Span 0 Hz Sweep 10.1 ms (8001 pts

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Wideo BW 3.0 MH

Center 5.3100000 Res BW 3.0 MHz

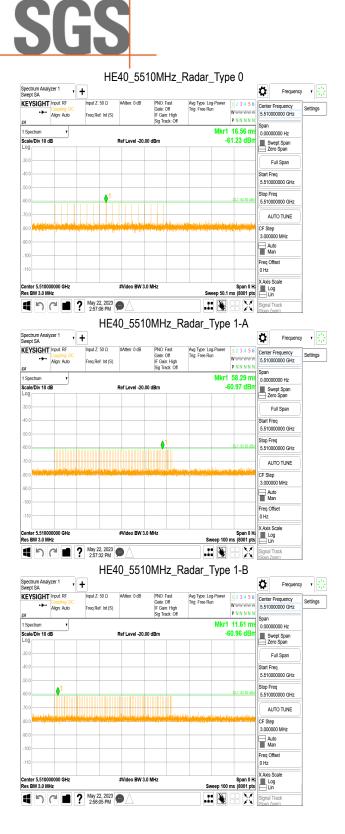
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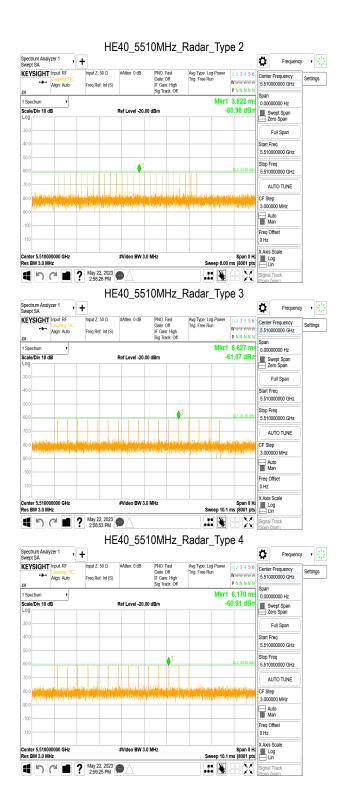
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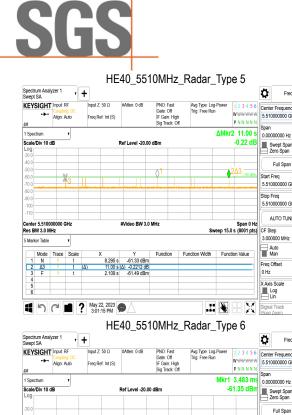
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Mkr1 3.483 ms 0 0000000 Hz -61 35 dBm Swept Span Full Span Start Freq 5.510000000 GHz Stop Freq 5.510000000 GH ۵1 AUTO TUNE CF Step 3.000000 MHz Auto Man Freq Offse 0 Hz X Axis Scale Span 0 Hz Log Sweep 8.00 ms (8001 pts Lin 0.00-DW 2 0 MU Res BW 3.0 MHz May 22, 2023
May 22, 2023
Signature X .# 😽 HE80_5290MHz_Radar_Type 0

Spectrum Analyzer 1 Swept SA Ö Frequency T · + KEYSIGHT Input: RF Input Z: 50 Q PNO: Fast Gate: Off IF Gain: Hi #Atten: 0 dB Avg Type: Log-Powe Trig: Free Run Center Frequency ettings Align: Auto Freq Ref: Int (S) 5.29000000 GH PNNNN Mkr1 7.996 ms 0.00000000 Hz I Spect Scale/Div 10 dB Ref Level -20.00 dBm -60 94 dBm Swept Spar Full Span art Fred 5.290000000 GHz Stop Freq 5.290000000 GH: ٥ AUTO TUNE CF Step 3.000000 N Auto Freq Offs 0 Hz Axis Scale #Video BW 3.0 MH Center 5.2900000 Res BW 3.0 MHz 0 0 11-7 Span 0 Hz Sweep 50.1 ms (8001 pts 📲 🥱 🍋 🔳 ? May 22, 2023 🗩 ΗX .# 😽

HE80 5290MHz Radar Type 1-A Spectrum Analyzer 1 Swept SA Frequency T · + Ö Avg Type: Log-Power Trig: Free Prin PNO: Fast Gate: Off IF Gain: High Sig Track: Off KEYSIGHT Input: RF nout 7:50.0 • 0 di Center Fre Settings Align: Auto Freq Ref: Int (S) 5.290000000 GH W W W W W P N N N N N Mkr1 22.69 ms 0.00000000 Hz 1 Spectrur Scale/Div 10 dB -61.26 dBm Swept Span Full Span Start Freq 5.29000000 GHz Stop Freq 5.290000000 GHz ٥ AUTO TUNE CF Step 3.000000 MHz Auto Man Freq Offse 0 Hz (Axis Scal Span 0 Hi Sweep 100 ms (8001 pts Center 5.290000 Res BW 3.0 MHz May 22, 2023
May 22, 2023
3:04:40 PM Signal Trac HE80_5290MHz_Radar_Type 1-B Spectrum Analyzer 1 Swept SA Ö Frequency v · + KEYSIGHT Input RF Input Z: 50 Q PNO: Fast Gate: Off IF Gain: High Sig Track: Off #Atten: 0 dB Avg Type: Log-Power Trig: Free Run Center Frequency 5.29000000 GHz Settings Align: Aut Free Ref. Int (S) PNNNN Mkr1 39.64 ms 0 0000000 Hz 1 Spectrum Ref Level -20.00 dBr Scale/Div 10 dB -61 04 dBm Swept Span Full Span Start Freq 5.290000000 GHz Stop Freq 5.290000000 GH AUTO TUNE CF Step 3.000000 MHz Auto Man Freq Offse 0 Hz X Axis Scale DM 2 0 MU Span 0 Hi Sweep 100 ms (8001 pts Res BW 3.0 MHz HX May 22, 2023
May 22, 2023
State HE80_5290MHz_Radar_Type 2 Spectrum Analyzer 1 Swept SA Ø Frequency T · + KEYSIGHT Input RE Input Z: 50 Q #Atten: 0 dB PNO: Fast Gate: Off IF Gain: Hi Avg Type: Log-Powe Trig: Free Run Center Frequence Settings Align: Auto Freq Ref: Int (S) 5.29000000 GH PNNNN Mkr1 951.0 µs 0.00000000 Hz Scale/Div 10 dB Ref Level -20.00 dBm -60 97 dB Swept Span Zero Span Full Span art Fred 5.290000000 GHz Stop Freq 5.290000000 GHz AUTO TUNE CF Step 3.000000 MHz Auto Freq Offse 0 Hz Span 0 Hz Sweep 8.00 ms (8001 pts #Video BW 3.0 MH Center 5.2900000 Res BW 3.0 MHz 0.01 📢 🖒 (~ 🔳 ? May 22, 2023 🗩 # 😽

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- 25

Settings

Frequency

Ö

Center Fr

5.510000000 GH

Full Span

Start Freq 5.510000000 GHz

Stop Freq 5.510000000 GHz

AUTO TUNE

3.000000 MH

Auto Man

Freq Offse

X Axis Scale

Log

Ö

Center Frequency 5.51000000 GHz

Frequency v

Settings

0 Hz

Span 0 Ha

Х Signal Track (Span Zoom)

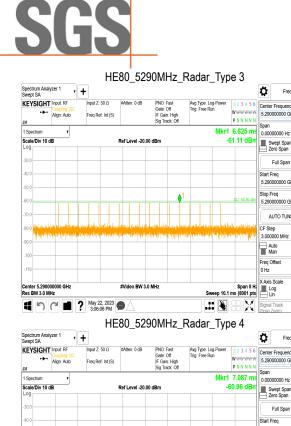
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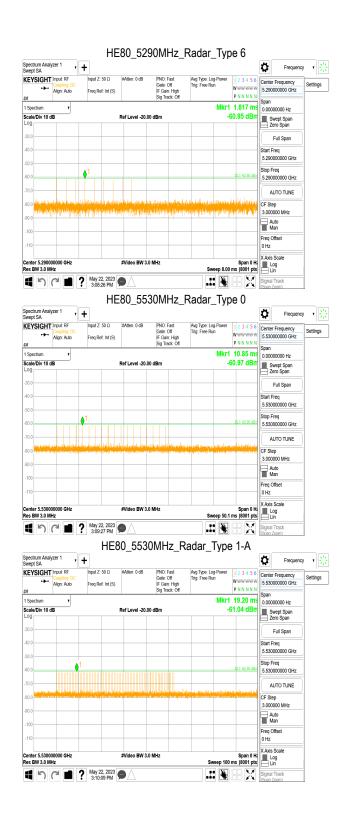
Mkr1 7.087 ms 0 0000000 Hz -60 96 dBm Swept Span Full Span Start Free 5.290000000 GH Stop Freq 5.290000 000 GH AUTO TUNE CF Step 3.000000 MHz Auto Man Freq Offse 0 Hz X Axis Scale Span 0 Hz Log Sweep 10.1 ms (8001 pts Lin DW 2 0 MU Res BW 3.0 MHz May 22, 2023
May 22, 2023
3:06:42 PM X .# 😽

HE80_5290MHz_Radar_Type 5 Spectrum Analyzer 1 Swept SA Ö Frequency T · + KEYSIGHT Input: RF Input Z: 50 Q PNO: Fast Gate: Off IF Gain: Hi #Atten: 0 dF Avg Type: Log-Powe Trig: Free Run Center Frequency ettings Align: Auto Frea Ref: Int (S) 5.29000000 GH PNNNN ΔMkr2 11.00 s I Spect -0.14 dB Swept Span Scale/Div 10 dB Ref Level -20.00 dBm Full Span ٥ 5.290000000 GH Stop Freq 5.290000000 GH: AUTO TUNE #Video BW 3.0 MHz Span 0 Hz Sweep 15.0 s (8001 pts) Center 5.2900000 Res BW 3.0 MHz 0 GHz CF Step 3.000000 f Auto Function Function Width Function Value Mode Trace Scale
 Y

 7.149 s
 -60.93 dBm

 11.00 s (Δ)
 -0.1440 dB

 2.109 s
 -61.57 dBm
 t t (Δ) Freq Offse 0 Hz X Axis Scale Log Lin May 22, 2023
May 22, 2023
3:07:53 PM X # 😽



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Settings

Frequency

Ö

Center Fr

5 29000000 GH

Full Span

Start Freq 5.29000000 GHz

Stop Freq 5.290000000 GHz

AUTO TUNE

CF Step

Auto Man

Freq Offse 0 Hz

X Axis Scale

Ö

Center Frequency 5.29000000 GHz

Frequency v

Settings

3.000000 MHz

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Frequency T

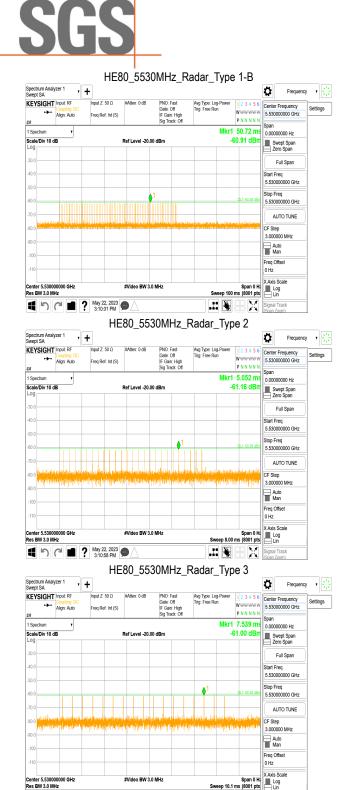
Ö

HE80_5530MHz_Radar_Type 4

Spectrum Analyzer 1 Swept SA

· +

nout 7:50.0



PNO: Fast Gate: Off IF Gain: High Sig Track: Of Avg Type: Log-Power Trig: Free Pro KEYSIGHT Input RF Center Fr Settings Align: Auto 5.530000000 GH W W W W W P N N N N N PNNNN Mkr1 4.343 ms 0.00000000 Hz 1 Spectrur Scale/Div 10 dB -61.06 dBm Swept Span Full Span Start Freq 5.530000000 GHz Stop Freq 5.530000000 GHz AUTO TUNE CF Step 3.000000 MHz Auto Man Freq Offse 0 Hz (Axis Scal Center 5.530000 Res BW 3.0 MHz Span 0 H; Sweep 10.1 ms (8001 pts May 22, 2023
May 22, 2023
3:12:01 PM Signal Track HE80_5530MHz_Radar_Type 5 Spectrum Analyzer 1 Swept SA Ö Frequency v · + KEYSIGHT Input RF Input Z: 50 Q PNO: Fast Gate: Off IF Gain: High Sig Track: Of #Atten: 0.dF Avg Type: Log-Power Trig: Free Run Center Frequency 5.53000000 GHz Settings Align: Aut Free Ref. Int (S) PNNNN ΔMkr2 11.00 s 0.00000000 Hz 1 Spectrum Ref Level -20.00 dRm Scale/Div 10 dB -0.36 dB Swept Span Full Span ٥ ¥3 Start Fred 5 530000000 GH Stop Freq 5.530000000 GH AUTO TUNE Center 5.5300000 Res BW 3.0 MHz #Video BW 3.0 MH: Span 0 Ha 00 GH2 Sweep 15.0 s (8001 pts) CF Step 3.000000 MHz 5 Marker Table Auto Man Mode Trace Scale Function Function Width Function Value 5.777 5.777 s -60.96 dBm 11.00 s (Δ) -0.3594 dB 2.109 s -61.28 dBm Freq Offse (Δ) 2 Δ3 0 Hz X Axis Scale Log Lin HX .# 😽 HE80_5530MHz_Radar_Type 6 Spectrum Analyzer 1 Swept SA Ø Frequency T · + KEYSIGHT Input RF Input Z: 50 Q #Atten: 0 dF PNO: Fast Gate: Off Avg Type: Log-Powe Trig: Free Run Center Frequence Settings Align: Auto Freq Ref: Int (S) 5.53000000 GH PNNNN Span Mkr1 3.483 ms 0.00000000 Hz Scale/Div 10 dB Ref Level -20.00 dBr -60 96 dB Swept Span Zero Span Full Span 5.530000000 GHz Stop Freq 5.530000000 GHz AUTO TUNE CF Step 3.000000 MHz Auto Freq Offse 0 Hz (Axis Scale #Video BW 3.0 MH Span 0 Hz Sweep 8.00 ms (8001 pts Center 5.5300000 Res BW 3.0 MHz 0.04-📲 🥱 🍋 🔳 ? May 22, 2023 🗩 # 😽

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10 CHANNEL CLOSING TRANSMISSION AND CHANNEL MOVE TIME MEAS-UREMENT (RADAR TYPE 0)

Channel Shutdown Result										
Detectio	on Threshold Leve	l (dBm)		-60).9					
Modulation Mode Freq. (MHz)		Radar Test Signal	Channel Clo Transmission T 200ms~10	ime(ms)	Channel Move	Time(s)				
HE80	5290	Туре 0	4	4 0.20						
HE80	5530	Туре 0	4		0.226					
	Limit		60	ms	10	sec				
	Result			Com	plied					

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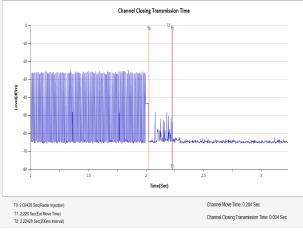
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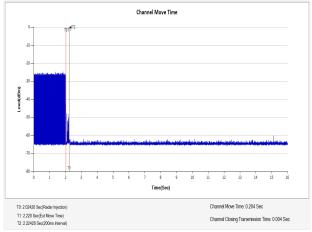


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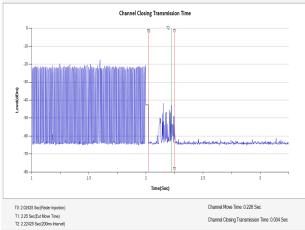
HE80 5290MHz Channel Close Time



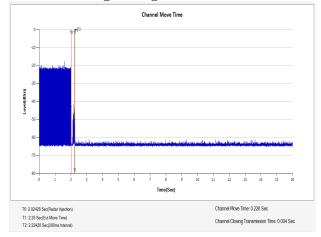
HE80_5290MHz_Channel Move Time



HE80_5530MHz_Channel Close Time



HE80 5530MHz Channel Move Time



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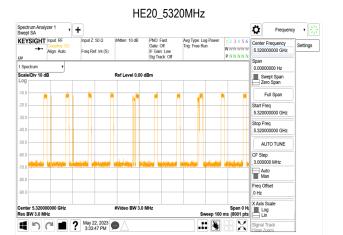
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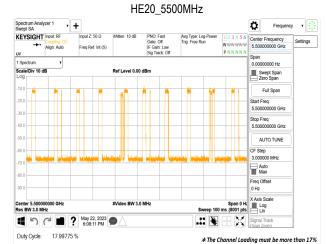
Report No.: TERF2303000754ER Page: 29 of 254



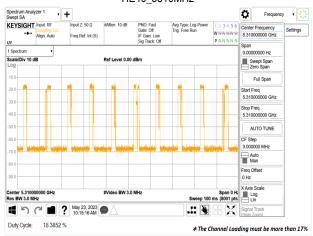


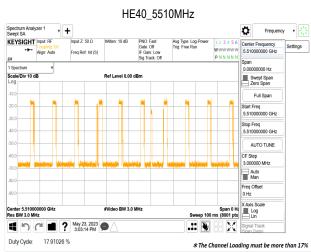


* The Channel Loading must be more than 17%

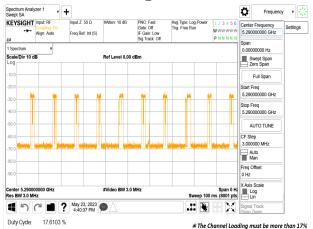


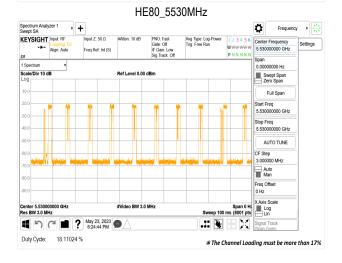
HE40_5310MHz





HE80 5290MHz





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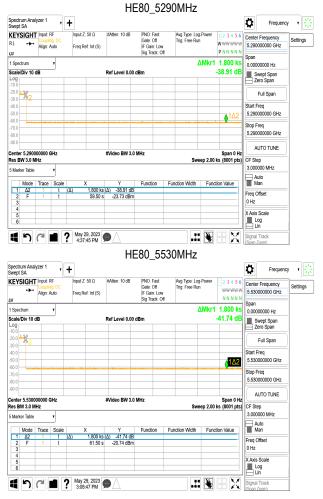
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12 NON-OCCUPANCY PERIOD MEASUREMENT

To verify whether channel is unavailable to be operated in 30 minutes. 1.8ks = 1800s = 1800 s/min /60 = 30minute



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13 UNII DETECTION BANDWIDTH MEASUREMENT

13.1 **Test Result**

				HE	20 <u>5</u> 3	20MHz	2				
EUT operating Frequency(MHz)	:	5320			EUT 99	% Band	width(I	MHz)	:	18.997	
Radar Type	:	Type 0			Detctio	on BW(N	/IHz)		:	20	
Test Result	:	Pass		*	FH:	5330		FL:	5310		
Radio Frequency		DFS	S Detect	tion Tria	als (1=D	etection	, 0= No	Detecti	ion)	1	
(MHz)	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)
5310	1	1	1	1	1	1	1	1	1	1	100
5315	1	1	1	1	1	1	1	1	1	1	100
5320	1	1	1	1	1	1	1	1	1	1	100
5325	1	1	1	1	1	1	1	1	1	1	100
5330	1	1	1	1	1	1	1	1	1	1	100

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HE20 5500MHz

EUT operating Frequency(MHz)	:	5500 EUT 99% Bandwidth(MHz) : 18.970									
Radar Type	:	Type 0									
Test Result	:	Pass		*	FH:	5510		FL:	5490		
Dedie Freewoner											
Radio Frequency (MHz)	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)
5490	1	1	1	1	1	1	1	1	1	1	100
5495	1	1	1	1	1	1	1	1	1	1	100
5500	1	1	1	1	1	1	1	1	1	1	100
5505	1	1	1	1	1	1	1	1	1	1	100
5510	1	1	1	1	1	1	1	1	1	1	100

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				HE	<u>40_53</u>	10MHz	2				
EUT operating Frequency(MHz)	:	5310			EUT 99	% Band	width(N	/IHz)	:	37.763	
Radar Type	:	Type 0			Detctio	on BW(N	/IHz)		:	40	
Test Result	:	Pass		*	FH:	5330		FL:	5290		
Dadia Francisco a		DF	S Detec	tion Tria	als (1=D	etection	, 0= No	Detecti	on)	-	
Radio Frequency (MHz)	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)
5290	1	1	1	1	1	1	1	1	1	1	100
5295	1	1	1	1	1	1	1	1	1	1	100
5300	1	1	1	1	1	1	1	1	1	1	100
5305	1	1	1	1	1	1	1	1	1	1	100
5310	1	1	1	1	1	1	1	1	1	1	100
5315	1	1	1	1	1	1	1	1	1	1	100
5320	1	1	1	1	1	1	1	1	1	1	100
5325	1	1	1	1	1	1	1	1	1	1	100
5330	1	1	1	1	1	1	1	1	1	1	100
								Ī			
	-										

HE40 5310MHz

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				HE	40 <u>55</u>	10MHz	<u> </u>				
EUT operating Frequency(MHz)	:	5510			EUT 99	% Band	width(N	/IHz)	:	37.927	
Radar Type	:	Type 0			Detctio	on BW(N	/IHz)		:	40	
Test Result	:	Pass		*	FH:	5530		FL:	5490		
		DF	S Detec	tion Tria	als (1=D	etection	, 0= No	Detecti	on)		
Radio Frequency (MHz)	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)
5490	1	1	1	1	1	1	1	1	1	1	100
5495	1	1	1	1	1	1	1	1	1	1	100
5500	1	1	1	1	1	1	1	1	1	1	100
5505	1	1	1	1	1	1	1	1	1	1	100
5510	1	1	1	1	1	1	1	1	1	1	100
5515	1	1	1	1	1	1	1	1	1	1	100
5520	1	1	1	1	1	1	1	1	1	1	100
5525	1	1	1	0	1	1	1	1	1	1	90
5530	0	1	1	1	1	1	1	1	1	1	90
								Ī			
										1	
k											

HE40 5510MHz

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HE80 5290MHz

EUT operating Frequency(MHz)	:	5290 EUT 99% Bandwidth(MHz) : 77.3								77.382	
Radar Type	:	Radar Type 0Detction BW(MHz): 80									
Test Result	:	Pass		*	FH:	5330		FL:	5250		
Dadia Francesco		DF	S Detect	tion Tri	als (1=D	etection	, 0= No	Detecti	on)		
Radio Frequency (MHz)	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)
5250	1	1	1	1	1	1	1	1	1	1	100
5255	1	1	1	1	1	1	1	1	1	1	100
5260	1	1	1	1	1	1	1	1	1	1	100
5265	1	1	1	1	1	1	1	1	1	1	100
5270	1	1	1	1	1	1	1	1	1	1	100
5275	1	1	1	1	1	1	1	1	1	1	100
5280	1	1	1	1	1	1	1	1	1	1	100
5285	1	1	1	1	1	1	1	1	1	1	100
5290	1	1	1	1	1	1	1	1	1	1	100
5295	1	1	1	1	1	1	1	1	1	1	100
5300	1	1	1	1	1	1	1	1	1	1	100
5305	1	1	1	1	1	1	1	1	1	1	100
5310	1	1	1	1	1	1	1	1	1	1	100
5315	1	1	1	1	1	1	1	1	1	1	100
5320	1	1	1	1	1	1	1	1	1	1	100
5325	1	1	1	1	1	1	1	1	1	1	100
5330	1	1	1	1	1	1	1	1	1	1	100

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HE80 5530MHz

EUT operating Frequency(MHz)	:	5530	530 EUT 99% Bandwidth(MHz)								
Radar Type	:	Type 0			Detctio	on BW(N	:	80			
Test Result	:	Pass		*	FH:	5570		FL:	5490		
Padia Fraguanau											
Radio Frequency (MHz)	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)
5490	1	1	1	1	1	1	1	1	1	1	100
5495	1	1	1	1	1	1	1	1	1	1	100
5500	1	1	1	1	1	1	1	1	1	1	100
5505	1	1	1	1	1	1	1	1	1	1	100
5510	1	1	1	1	1	1	1	1	1	1	100
5515	1	1	1	1	1	1	1	1	1	1	100
5520	1	1	1	1	1	1	1	1	1	1	100
5525	1	1	1	1	1	1	1	1	1	1	100
5530	1	1	1	1	1	1	1	1	1	1	100
5535	1	1	1	1	1	1	1	1	1	1	100
5540	1	1	1	1	1	1	1	1	1	1	100
5545	1	1	1	1	1	1	1	1	1	1	100
5550	1	1	1	1	1	1	1	1	1	1	100
5555	1	1	1	1	1	1	1	1	1	1	100
5560	1	1	1	1	1	1	1	1	1	1	100
5565	1	1	1	1	1	1	1	1	1	1	100
5570	1	1	1	1	1	1	1	1	1	1	100

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