FCC Test Report

Report No.: AGC00210200519FE07

FCC ID	:	2AVUHTT-ND001
APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	:	AC3000 Tri-Band Mesh Router
BRAND NAME	:	TAOTRONICS
MODEL NAME	:	TT-ND001
APPLICANT	:	Shenzhen NearbyExpress Technology Development Company Limited
DATE OF ISSUE	:	Jul. 17, 2020
STANDARD(S) **TEST PROCEDURE(S)**	:	FCC Part 15.407 KDB 905462 D02
REPORT VERSION	:	V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jul. 17, 2020	Valid	Initial Release

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1. VERIFICATION OF CONFORMITY

Applicant	Shenzhen NearbyExpress Technology Development Company Limited
Address	Room 701, 702, 703, 705, 706, 708, 709, Building E, Galaxy World Phase II, Minle Community, Minzhi Street, Longhua District, Shenzhen, Guangdong, China 518000
Manufacturer	Shenzhen NearbyExpress Technology Development Company Limited
Address	Room 701, 702, 703, 705, 706, 708, 709, Building E, Galaxy World Phase II, Minle Community, Minzhi Street, Longhua District, Shenzhen, Guangdong, China 518000
Factory	Shenzhen Dazoo Technologies Co., Ltd
Address	Room 506, Building 2A, Skyworth Innovation Valley, Baoan District, Shenzhen, Guangdong, China
Product Designation	AC3000 Tri-Band Mesh Router
Brand Name	TAOTRONICS
Test Model	TT-ND001
Date of test	Jun. 03, 2020 to Jul. 17, 2020
Deviation	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Report Template	AGCRT-US-BGN/RF

We hereby certify that:
The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in KDB 905462 D02.

Prepared By	Sky Dong (Project Engineer)	Jul. 17, 2020	
Reviewed By	Max Zhang (Reviewer)	Jul. 17, 2020	
Approved By	Forrest Lei (Authorized Officer)	Jul. 17, 2020	

2. GENERAL INFORMATION

The EUT is designed as “Client without Radar Detection”. It is designed by way of utilizing the OFDM technology to achieve the system operation.

Operation Frequency	5150 MHz～5250MHz; 5250 MHz～5350MHz, 5470 MHz～5727MHz, 5725 MHz～5850MHz
Output Power	IEEE 802.11a20:14.37dBm; IEEE 802.11n(20):20.49dBm; IEEE 802.11ac(20):20.28dBm; IEEE802.11n(40):19.33dBm; IEEE802.11ac(40):18.70dBm; IEEE802.11ac(80):17.53dBm
Modulation	BPSK, QPSK, 16QAM, 64QAM, 128QAM, 256QAM,OFDM
Number of channels	39
Hardware Version	D9-WIFI
Software Version	ND001_1.0.0.8
Antenna Designation	Integral Antenna
Number of transmit chain	6(5150MHz-5250MHz&5250-5350 used two antennas, 5470MHz-5725MHz&5725-5850 used four antennas, 802.11a support SISO and 802.11n/ac support MIMO)
Directional gain	All transmit signals are completely uncorrelated with each other
Antenna Gain	IN 5150MHz-5250MHz&5250MHz-5350MHz, antenna 0:4.65dBi ;antenna 1:4.73dBi IN 5470MHz-5725MHz&5725MHz-5850MHz, antenna 0:4.12dBi; antenna 1:4.12dBi ;antenna 2:3.93dBi; antenna 3:3.97dBi
Power Supply	DC 12V by adapter

3. DESCRIPTION OF TEST MODES

The tests in this section are run sequentially and the UUT must pass all tests successfully.
If the UUT fails any one of the tests it will count as a failure of compliance.
To show compliance, all tests must be performed with waveforms randomly generated as specified with test results meeting the required percentage of successful detection criteria.
One frequency will be chosen from the operating Channels of the UUT within the 5250-5350 MHz or 5470-5725 MHz bands.

4. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.407	DFS Detection Threshold	Compliant
§15.407	Channel Availability Check Time	Compliant
§15.407	Channel Move Time	Compliant
§15.407	Channel Closing Transmission Time	Compliant
§15.407	Non- Occupancy Period	Compliant
§15.407	U-NII Detection Bandwidth	Compliant

5. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Designation Number	CN1259
FCC Test Firm Registration Number	975832
A2LA Cert. No.	5054.02
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA

Description	Manufacturer	Model No.	S/N	Calibration Due.	Calibration Due.
MXG X-Series Vector Signal Generator	Keysight	N5182B	MY50140530	Sep. 09, 2019	Sep. 08, 2020
EXA Signal Analyzer	Keysight	N9020A	MY52090123	Sep. 09, 2019	Sep. 08, 2020
Attenuator	Wariors	W13	11324	Sep. 09, 2019	Sep. 08, 2020
Power spliter	Mini-Circuits	ZFRSC-183-s	3122	Sep. 09, 2019	Sep. 08, 2020
RF Cable	Harbour	SHWCB-3000-N	N/A	May 15, 2020	May 14, 2022
DFS waveform Generator software	Keysight	N7607C V2.0.0.0	N/A	N/A	N/A
DFS data Analyzer software	Tonscend	JS1120-2	N/A	N/A	N/A
AP(Master)	ZTE	ZXHN F670	N/A	N/A	N/A

6. DYNAMIC FREQUENCY SELECTION (DFS)

6.1. APPLICABILITY OF DFS REQUIREMENTS

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

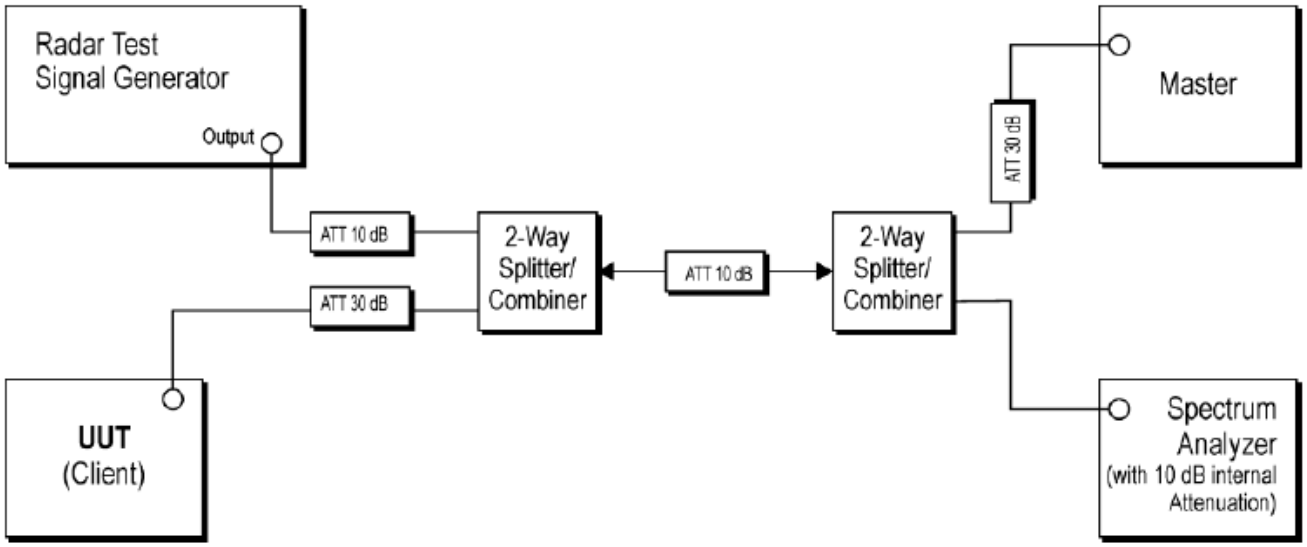
Requirement	Operational Mode		
	☒Master	☐Client Without Radar Detection	☐Client With Radar Detection
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode	
	☒Master Device or Client with Radar Detection	☐Client Without Radar Detection
DFS Detection Threshold	Yes	Not required
Channel Closing Transmission Time	Yes	Yes
Channel Move Time	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required

Additional requirements for devices with multiple bandwidth modes	☒Master Device or Client with Radar Detection	☐Client Without Radar Detection
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission 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
Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.		

6.2. TEST SET-UP



6.3. LIMITS

Table 3: DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection

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 amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.
Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

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 second 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.

6.4. RADAR TEST WAVEFORMS

Table 5 – Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (µsec)	PRI (µsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a	Roundup $\left\{\left(\frac{1}{360}\right)\cdot\left(\frac{19\cdot10^6}{PRI_{\mu sec}}\right)\right\}$	60%	30
		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
Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.					

Table 6 – Long Pulse Radar Test Waveform

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

Table 7 – Frequency Hopping Radar Test Waveform

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

Radar Type 0

Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Number of Pulses	Waveform Length (us)
0	Type 0	1.0	1428.0	18	25704.0
1	Type 0	1.0	1428.0	18	25704.0
2	Type 0	1.0	1428.0	18	25704.0
3	Type 0	1.0	1428.0	18	25704.0
4	Type 0	1.0	1428.0	18	25704.0
5	Type 0	1.0	1428.0	18	25704.0
6	Type 0	1.0	1428.0	18	25704.0
7	Type 0	1.0	1428.0	18	25704.0
8	Type 0	1.0	1428.0	18	25704.0
9	Type 0	1.0	1428.0	18	25704.0
10	Type 0	1.0	1428.0	18	25704.0
11	Type 0	1.0	1428.0	18	25704.0
12	Type 0	1.0	1428.0	18	25704.0
13	Type 0	1.0	1428.0	18	25704.0
14	Type 0	1.0	1428.0	18	25704.0
15	Type 0	1.0	1428.0	18	25704.0
16	Type 0	1.0	1428.0	18	25704.0
17	Type 0	1.0	1428.0	18	25704.0
18	Type 0	1.0	1428.0	18	25704.0
19	Type 0	1.0	1428.0	18	25704.0
20	Type 0	1.0	1428.0	18	25704.0
21	Type 0	1.0	1428.0	18	25704.0
22	Type 0	1.0	1428.0	18	25704.0
23	Type 0	1.0	1428.0	18	25704.0
24	Type 0	1.0	1428.0	18	25704.0
25	Type 0	1.0	1428.0	18	25704.0
26	Type 0	1.0	1428.0	18	25704.0
27	Type 0	1.0	1428.0	18	25704.0
28	Type 0	1.0	1428.0	18	25704.0
29	Type 0	1.0	1428.0	18	25704.0

Radar Type 1

Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Number of Pulses	Waveform Length (us)
0	Type 1	1.0	938.0	57	53466.0
1	Type 1	1.0	698.0	76	53048.0
2	Type 1	1.0	618.0	86	53148.0
3	Type 1	1.0	538.0	99	53262.0
4	Type 1	1.0	878.0	61	53558.0
5	Type 1	1.0	3066.0	18	55188.0
6	Type 1	1.0	638.0	83	52954.0
7	Type 1	1.0	918.0	58	53244.0
8	Type 1	1.0	838.0	63	52794.0
9	Type 1	1.0	858.0	62	53196.0
10	Type 1	1.0	798.0	67	53466.0
11	Type 1	1.0	718.0	74	53132.0
12	Type 1	1.0	578.0	92	53176.0
13	Type 1	1.0	598.0	89	53222.0
14	Type 1	1.0	558.0	95	53010.0
15	Type 1	1.0	2536.0	21	53256.0
16	Type 1	1.0	966.0	55	53130.0
17	Type 1	1.0	827.0	64	52928.0
18	Type 1	1.0	2501.0	22	55022.0
19	Type 1	1.0	2595.0	21	54495.0
20	Type 1	1.0	1114.0	48	53472.0
21	Type 1	1.0	1302.0	41	53382.0
22	Type 1	1.0	3045.0	18	54810.0
23	Type 1	1.0	1624.0	33	53592.0
24	Type 1	1.0	2878.0	19	54682.0
25	Type 1	1.0	1027.0	52	53404.0
26	Type 1	1.0	2485.0	22	54670.0
27	Type 1	1.0	1600.0	33	52800.0
28	Type 1	1.0	1172.0	46	53912.0
29	Type 1	1.0	1177.0	45	52965.0

Radar Type 2

Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Number of Pulses	Waveform Length (us)
0	Type 2	3.2	179.0	26	4654.0
1	Type 2	1.1	207.0	23	4761.0
2	Type 2	2.1	230.0	24	5520.0
3	Type 2	4.8	200.0	29	5800.0
4	Type 2	3.9	214.0	28	5992.0
5	Type 2	2.9	222.0	26	5772.0
6	Type 2	3.2	204.0	26	5304.0
7	Type 2	2.5	192.0	25	4800.0
8	Type 2	3.1	164.0	26	4264.0
9	Type 2	1.2	156.0	23	3588.0
10	Type 2	3.9	210.0	27	5670.0
11	Type 2	4.6	201.0	29	5829.0
12	Type 2	3.2	162.0	26	4212.0
13	Type 2	2.2	197.0	25	4925.0
14	Type 2	4.5	163.0	29	4727.0
15	Type 2	3.0	203.0	26	5278.0
16	Type 2	5.0	168.0	29	4872.0
17	Type 2	2.4	217.0	25	5425.0
18	Type 2	2.9	191.0	26	4966.0
19	Type 2	2.3	166.0	25	4150.0
20	Type 2	3.7	150.0	27	4050.0
21	Type 2	2.2	176.0	25	4400.0
22	Type 2	4.9	195.0	29	5655.0
23	Type 2	2.9	202.0	26	5252.0
24	Type 2	2.5	178.0	25	4450.0
25	Type 2	1.1	206.0	23	4738.0
26	Type 2	3.8	155.0	27	4185.0
27	Type 2	4.7	157.0	29	4553.0
28	Type 2	2.4	224.0	25	5600.0
29	Type 2	4.2	159.0	28	4452.0

Radar Type 3

Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Number of Pulses	Waveform Length (us)
0	Type 3	8.2	355.0	17	6035.0
1	Type 3	6.1	487.0	16	7792.0
2	Type 3	7.1	344.0	16	5504.0
3	Type 3	9.8	288.0	18	5184.0
4	Type 3	8.9	230.0	18	4140.0
5	Type 3	7.9	432.0	17	7344.0
6	Type 3	8.2	207.0	17	3519.0
7	Type 3	7.5	443.0	17	7531.0
8	Type 3	8.1	439.0	17	7463.0
9	Type 3	6.2	223.0	16	3568.0
10	Type 3	8.9	208.0	18	3744.0
11	Type 3	9.6	463.0	18	8334.0
12	Type 3	8.2	441.0	17	7497.0
13	Type 3	7.2	323.0	16	5168.0
14	Type 3	9.5	297.0	18	5346.0
15	Type 3	8.0	412.0	17	7004.0
16	Type 3	10.0	324.0	18	5832.0
17	Type 3	7.4	271.0	17	4607.0
18	Type 3	7.9	349.0	17	5933.0
19	Type 3	7.3	409.0	16	6544.0
20	Type 3	8.7	373.0	18	6714.0
21	Type 3	7.2	254.0	16	4064.0
22	Type 3	9.9	274.0	18	4932.0
23	Type 3	7.9	278.0	17	4726.0
24	Type 3	7.5	317.0	17	5389.0
25	Type 3	6.1	260.0	16	4160.0
26	Type 3	8.8	211.0	18	3798.0
27	Type 3	9.7	272.0	18	4896.0
28	Type 3	7.4	264.0	17	4488.0
29	Type 3	9.2	284.0	18	5112.0

Radar Type 4

Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Number of Pulses	Waveform Length (us)
0	Type 4	16.0	355.0	14	4970.0
1	Type 4	11.3	487.0	12	5844.0
2	Type 4	13.5	344.0	13	4472.0
3	Type 4	19.4	288.0	16	4608.0
4	Type 4	17.5	230.0	15	3450.0
5	Type 4	15.3	432.0	14	6048.0
6	Type 4	15.9	207.0	14	2898.0
7	Type 4	14.3	443.0	13	5759.0
8	Type 4	15.8	439.0	14	6146.0
9	Type 4	11.5	223.0	12	2676.0
10	Type 4	17.4	208.0	15	3120.0
11	Type 4	19.0	463.0	16	7408.0
12	Type 4	16.0	441.0	14	6174.0
13	Type 4	13.8	323.0	13	4199.0
14	Type 4	18.9	297.0	16	4752.0
15	Type 4	15.5	412.0	14	5768.0
16	Type 4	19.9	324.0	16	5184.0
17	Type 4	14.1	271.0	13	3523.0
18	Type 4	15.2	349.0	14	4886.0
19	Type 4	13.8	409.0	13	5317.0
20	Type 4	17.1	373.0	15	5595.0
21	Type 4	13.8	254.0	13	3302.0
22	Type 4	19.8	274.0	16	4384.0
23	Type 4	15.3	278.0	14	3892.0
24	Type 4	14.5	317.0	13	4121.0
25	Type 4	11.3	260.0	12	3120.0
26	Type 4	17.3	211.0	15	3165.0
27	Type 4	19.2	272.0	16	4352.0
28	Type 4	14.2	264.0	13	3432.0
29	Type 4	18.2	284.0	15	4260.0

Radar Type 5

	Trial Id	Radar Type	Number of Bursts	Burst Period (s)	Waveform Length (s)	Center Frequency (GHz)
Download	0	Type 5	15	0.8000000	12.0000000	5.500000000
Download	1	Type 5	8	1.5000000	12.0000000	5.500000000
Download	2	Type 5	11	1.0909091	12.0000000	5.500000000
Download	3	Type 5	20	0.6000000	12.0000000	5.500000000
Download	4	Type 5	17	0.7058824	12.0000000	5.500000000
Download	5	Type 5	14	0.8571429	12.0000000	5.500000000
Download	6	Type 5	15	0.8000000	12.0000000	5.500000000
Download	7	Type 5	12	1.0000000	12.0000000	5.500000000
Download	8	Type 5	14	0.8571429	12.0000000	5.500000000
Download	9	Type 5	8	1.5000000	12.0000000	5.500000000
Download	10	Type 5	17	0.7058824	12.0000000	5.504000000
Download	11	Type 5	19	0.6315789	12.0000000	5.505000000
Download	12	Type 5	15	0.8000000	12.0000000	5.503000000
Download	13	Type 5	12	1.0000000	12.0000000	5.502000000
Download	14	Type 5	19	0.6315789	12.0000000	5.505000000
Download	15	Type 5	14	0.8571429	12.0000000	5.502000000
Download	16	Type 5	20	0.6000000	12.0000000	5.506000000
Download	17	Type 5	12	1.0000000	12.0000000	5.502000000
Download	18	Type 5	14	0.8571429	12.0000000	5.502000000
Download	19	Type 5	12	1.0000000	12.0000000	5.502000000
Download	20	Type 5	16	0.7500000	12.0000000	5.496000000
Download	21	Type 5	12	1.0000000	12.0000000	5.499000000
Download	22	Type 5	20	0.6000000	12.0000000	5.494000000
Download	23	Type 5	14	0.8571429	12.0000000	5.498000000
Download	24	Type 5	13	0.9230769	12.0000000	5.498000000
Download	25	Type 5	8	1.5000000	12.0000000	5.500000000
Download	26	Type 5	17	0.7058824	12.0000000	5.496000000
Download	27	Type 5	19	0.6315789	12.0000000	5.495000000
Download	28	Type 5	12	1.0000000	12.0000000	5.498000000
Download	29	Type 5	18	0.6666667	12.0000000	5.496000000

Radar Type 6

Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (ms)	Visible Frequency Number
0	Type 6	1.0	333.3	9	0.3333	300.0000000	32
1	Type 6	1.0	333.3	9	0.3333	300.0000000	27
2	Type 6	1.0	333.3	9	0.3333	300.0000000	25
3	Type 6	1.0	333.3	9	0.3333	300.0000000	33
4	Type 6	1.0	333.3	9	0.3333	300.0000000	37
5	Type 6	1.0	333.3	9	0.3333	300.0000000	30
6	Type 6	1.0	333.3	9	0.3333	300.0000000	33
7	Type 6	1.0	333.3	9	0.3333	300.0000000	27
8	Type 6	1.0	333.3	9	0.3333	300.0000000	33
9	Type 6	1.0	333.3	9	0.3333	300.0000000	30
10	Type 6	1.0	333.3	9	0.3333	300.0000000	37
11	Type 6	1.0	333.3	9	0.3333	300.0000000	36
12	Type 6	1.0	333.3	9	0.3333	300.0000000	38
13	Type 6	1.0	333.3	9	0.3333	300.0000000	35
14	Type 6	1.0	333.3	9	0.3333	300.0000000	28
15	Type 6	1.0	333.3	9	0.3333	300.0000000	37
16	Type 6	1.0	333.3	9	0.3333	300.0000000	35
17	Type 6	1.0	333.3	9	0.3333	300.0000000	37
18	Type 6	1.0	333.3	9	0.3333	300.0000000	27
19	Type 6	1.0	333.3	9	0.3333	300.0000000	34
20	Type 6	1.0	333.3	9	0.3333	300.0000000	35
21	Type 6	1.0	333.3	9	0.3333	300.0000000	37
22	Type 6	1.0	333.3	9	0.3333	300.0000000	41
23	Type 6	1.0	333.3	9	0.3333	300.0000000	36
24	Type 6	1.0	333.3	9	0.3333	300.0000000	29
25	Type 6	1.0	333.3	9	0.3333	300.0000000	32
26	Type 6	1.0	333.3	9	0.3333	300.0000000	30
27	Type 6	1.0	333.3	9	0.3333	300.0000000	31
28	Type 6	1.0	333.3	9	0.3333	300.0000000	31
29	Type 6	1.0	333.3	9	0.3333	300.0000000	40

6.5. TEST PROCEDURE

1. When a Client Device without Radar Detection is the UUT, the Master Device is the Radar Detection Device.
2. A spectrum analyzer is used to establish the test signal level for each radar type.
3. During this process, there are no transmissions by either the Master Device or Client Device.
4. The spectrum analyzer is switched to the zero span (time domain) mode at the frequency of the Radar Waveform generator. The peak detector function of the spectrum analyzer is utilized. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) are set to at least 3 MHz.
5. The measured channels are 5530MHz in 80MHz Bandwidth and 5290MHz in 80MHz Bandwidth. The Radar signal was the same as transmitted channels, and injected into the antenna port of AP(master) ,measured the DFS parameters. The master transmitted the test data to client, the transmitted duty cycle is 30.8%.

6.6. TEST RESULT

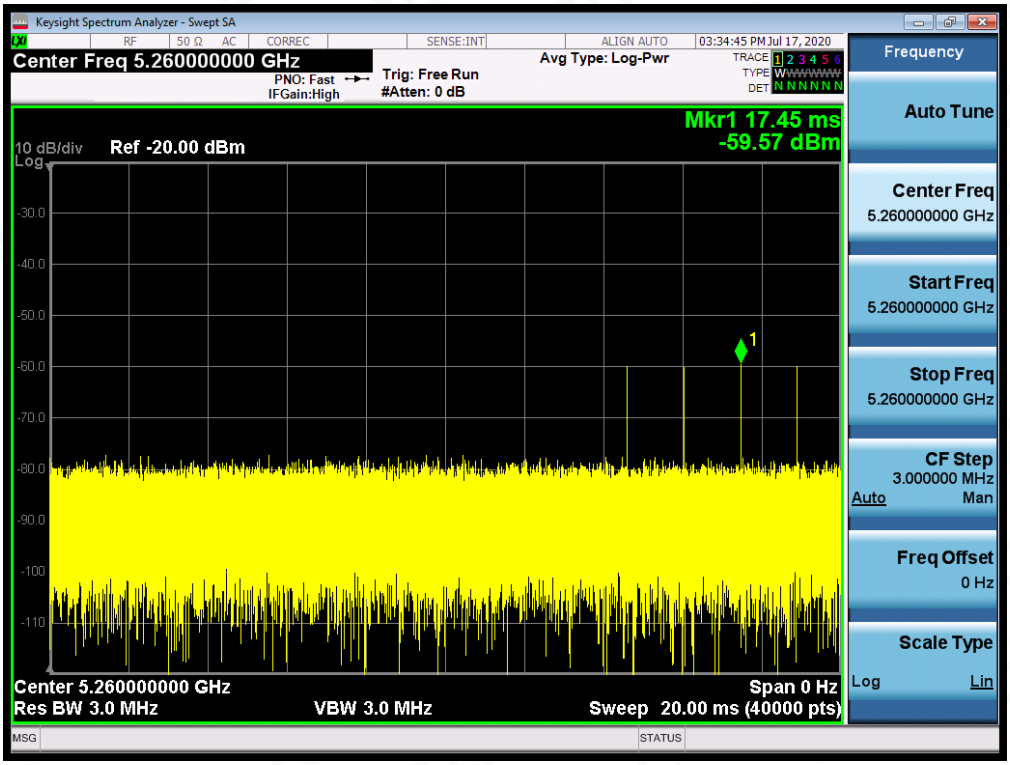
6.6.1 DFS DETECTION THRESHOLD

Calibration:

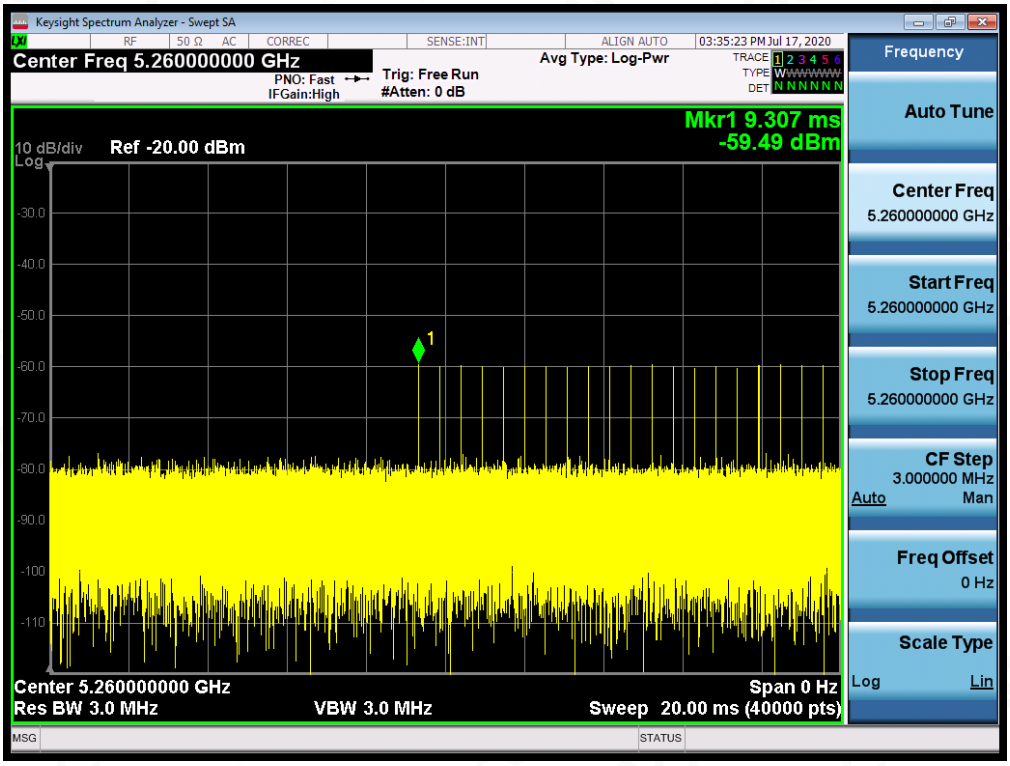
For a detection threshold level of -64dBm and the Master antenna gain is 4.73dBi, required detection threshold is -59.27 dBm (= -64+4.73).

Note: Maximum Transmit Power is greater than 200 milliwatt in this report, so detection threshold level is -64dBm .

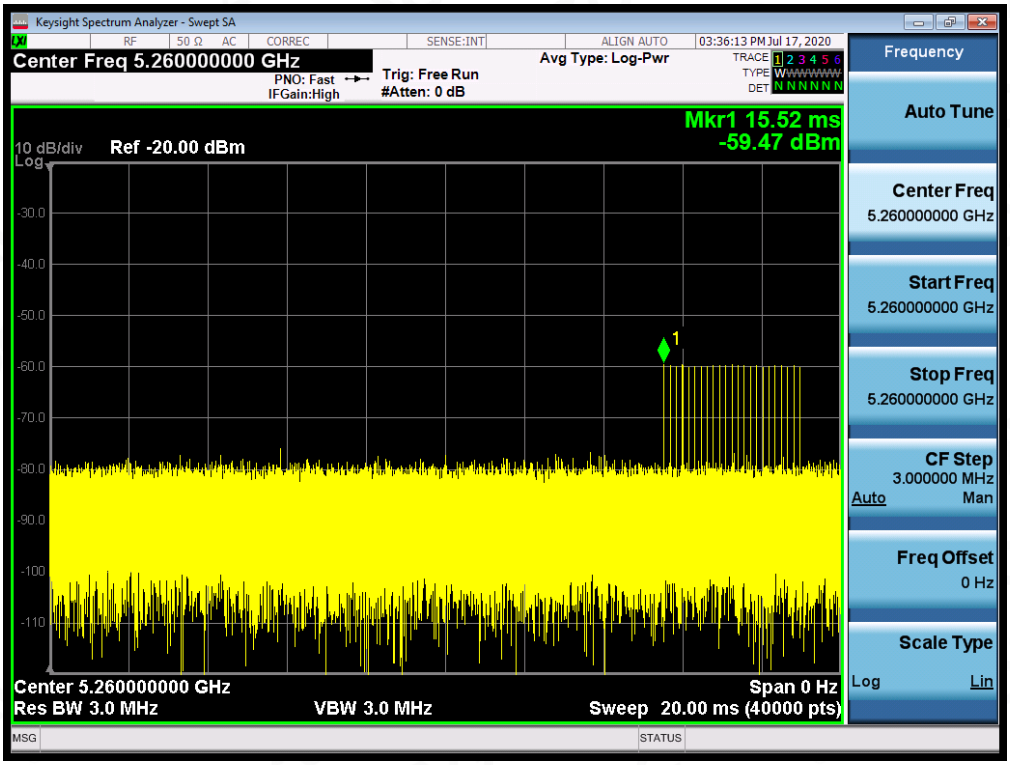
Radar Type 0



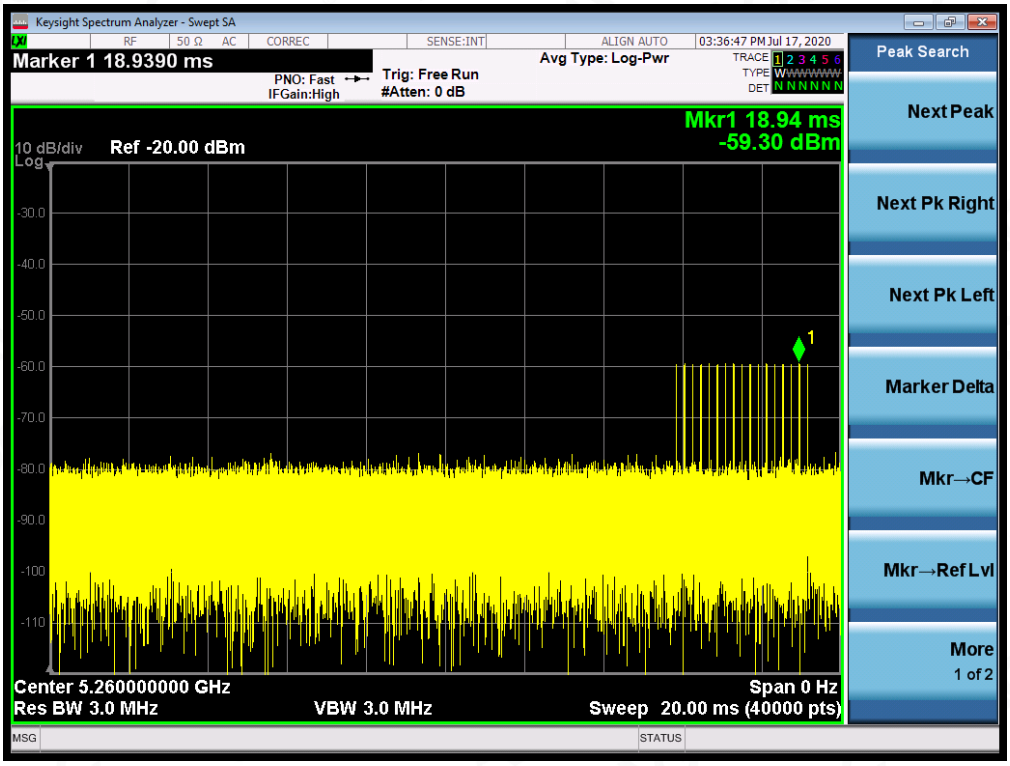
Radar Type 1



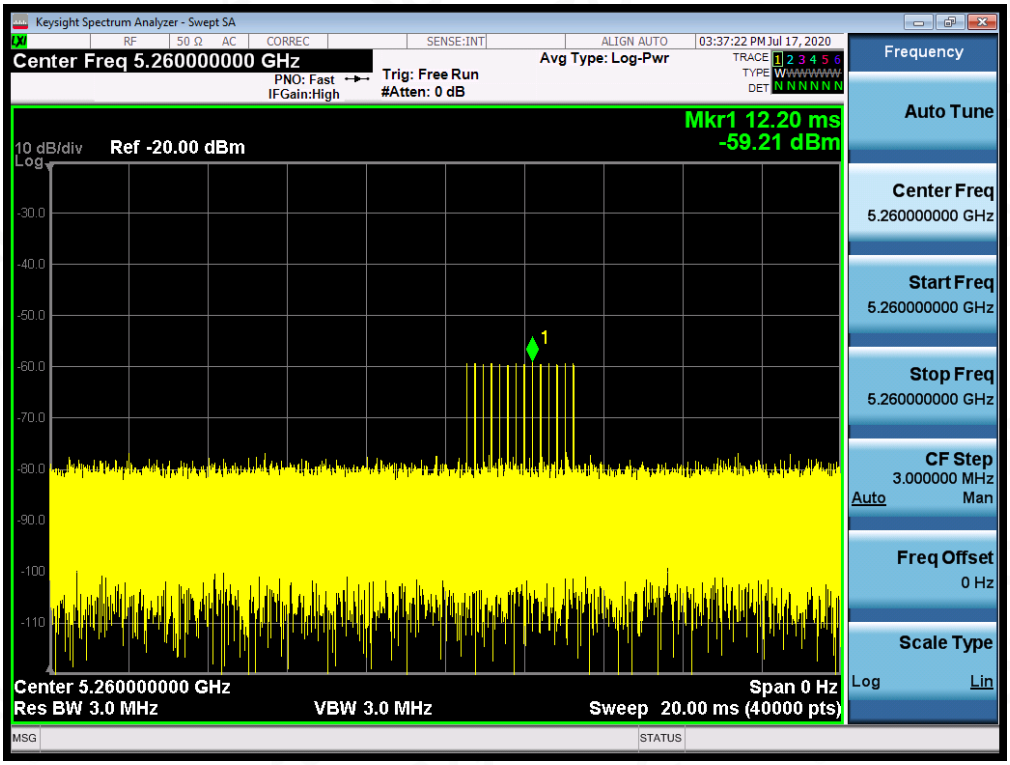
Radar Type 2



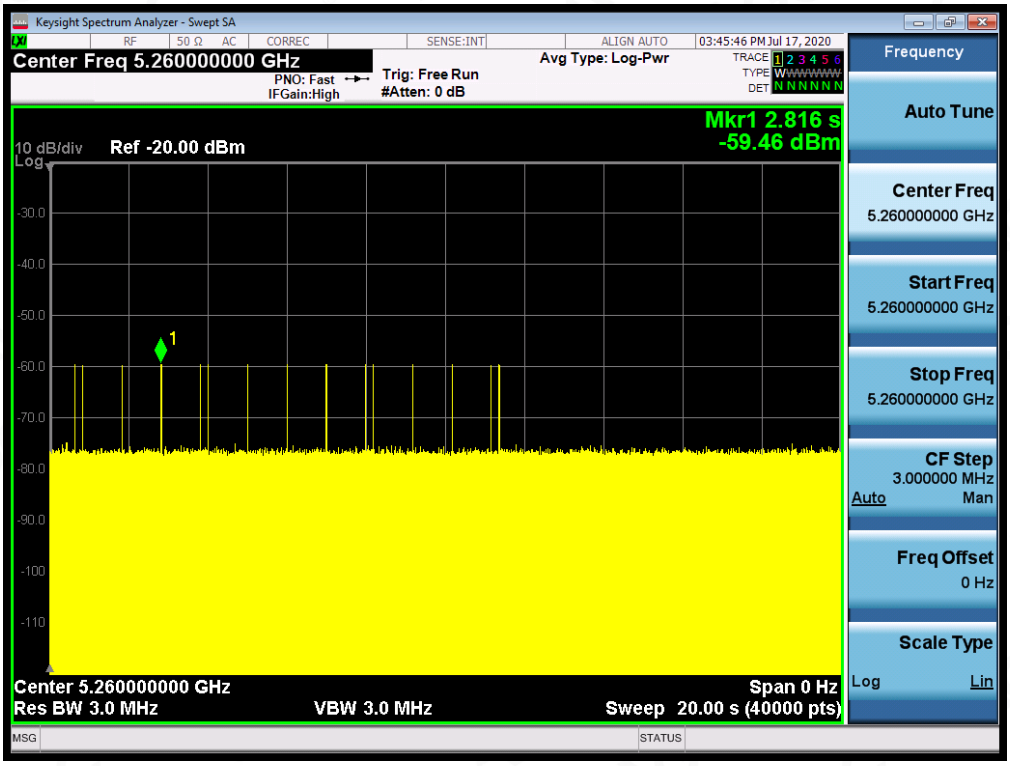
Radar Type 3



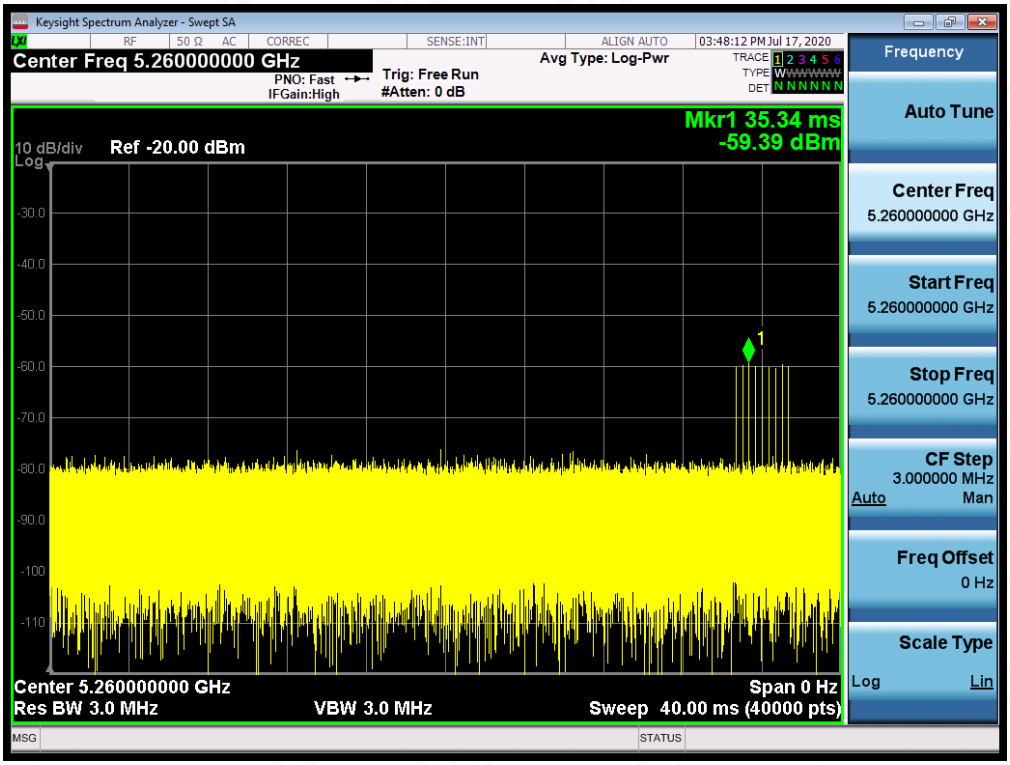
Radar Type 4



Radar Type 5

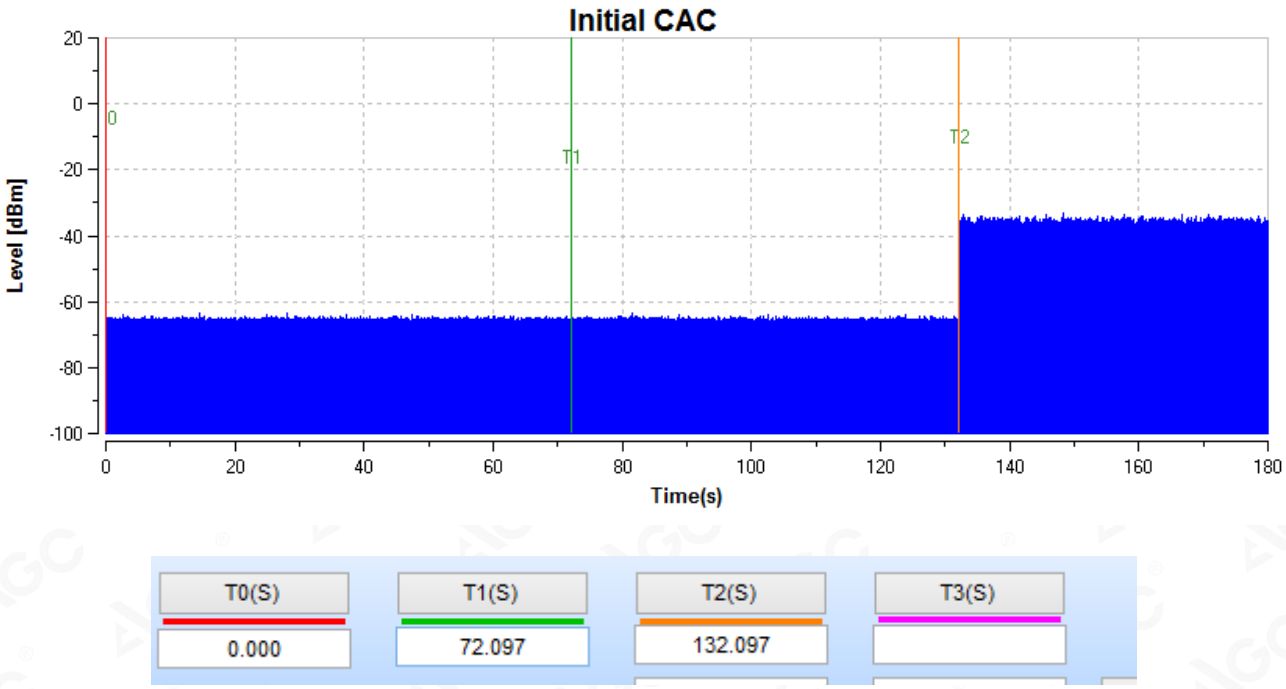


Radar Type 6


Keysight Spectrum Analyzer - Swept SA
RF
50 Ω AC
CORREC
SENSE:INT
ALIGN AUTO
03:48:12 PM Jul 17, 2020
Center Freq 5.260000000 GHz
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Avg Type: Log-Pwr
TRACE 1 2 3 4 5 6
TYPE WWWWW
DET N N N N N
Mkr1 35.34 ms
-59.39 dBm
10 dB/div
Log
Ref -20.00 dBm
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100
-110
Center 5.260000000 GHz
Res BW 3.0 MHz
VBW 3.0 MHz
Span 0 Hz
Sweep 40.00 ms (40000 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
5.260000000 GHz
Start Freq
5.260000000 GHz
Stop Freq
5.260000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz
Scale Type
Log
Lin

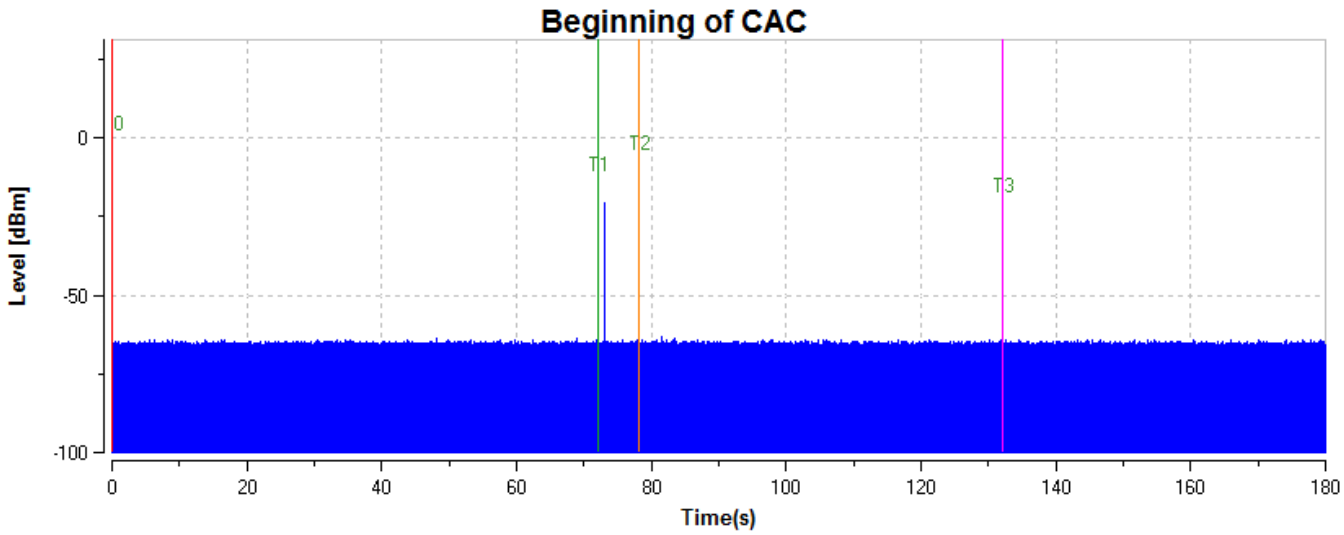
6.6.2 Channel Availability Check Time

A20-5260MHz



Note:

The UUT is powered on at T0,T1 denotes the instant when the UUT has completed its power-up sequence (Tpower_up),T2 denotes the end of Channel Availability Check Time.Channel Availability Check Time is equal to (T2-T1)60S

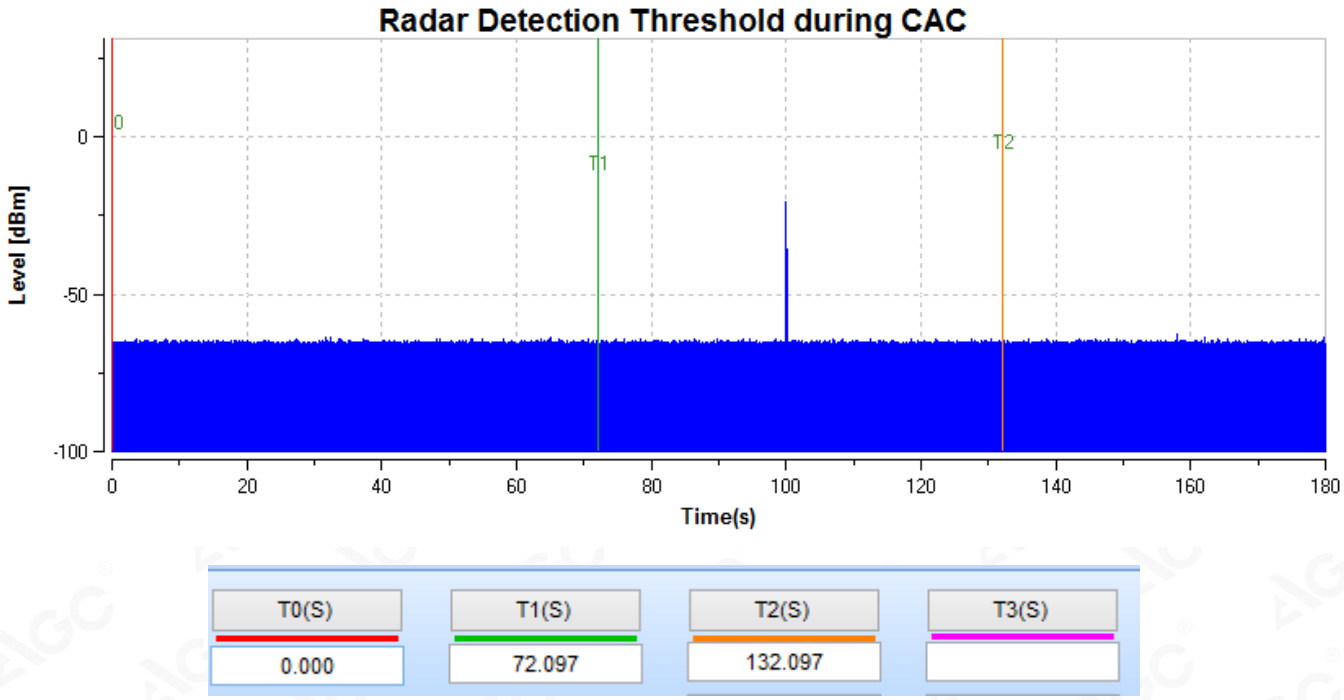


T0(S)	T1(S)	T2(S)	T3(S)
0.000	72.097	78.097	132.097

Note:

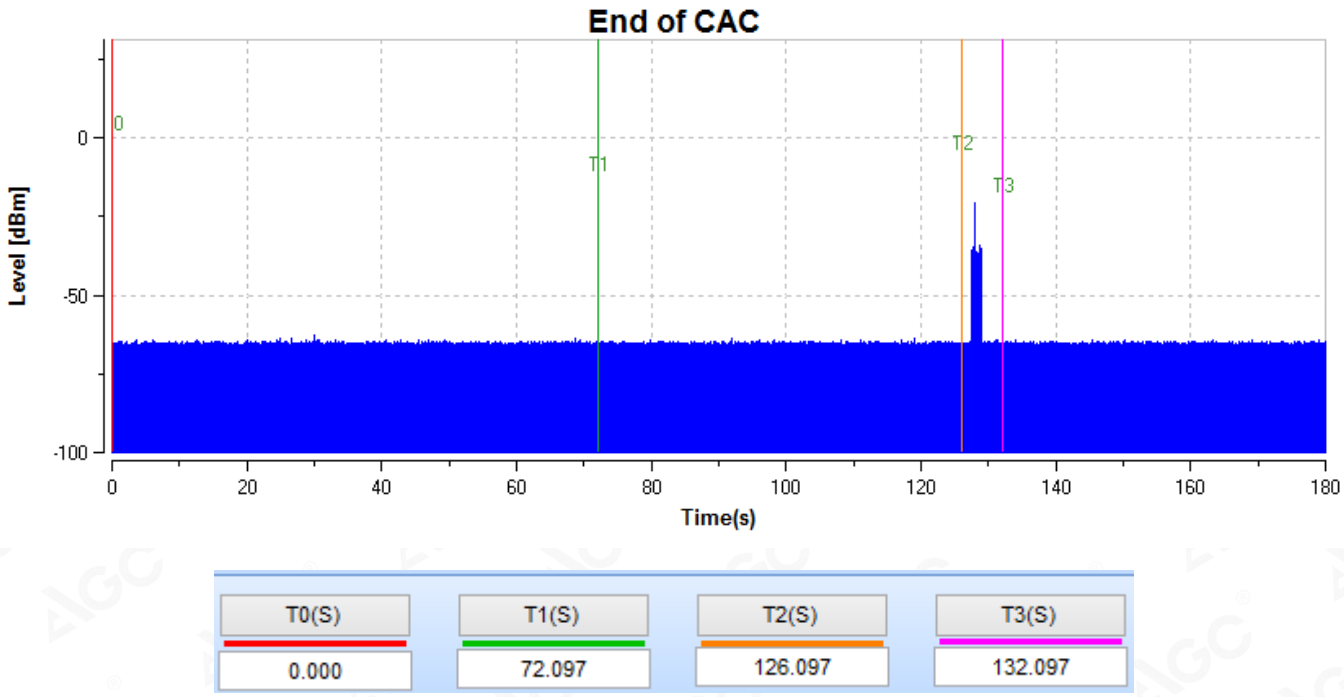
T1 denotes the instant when the UUT has completed its power-up sequence (Tpower_up),

T2 denotes the radar burst was commenced within a 6 second window.



Note:

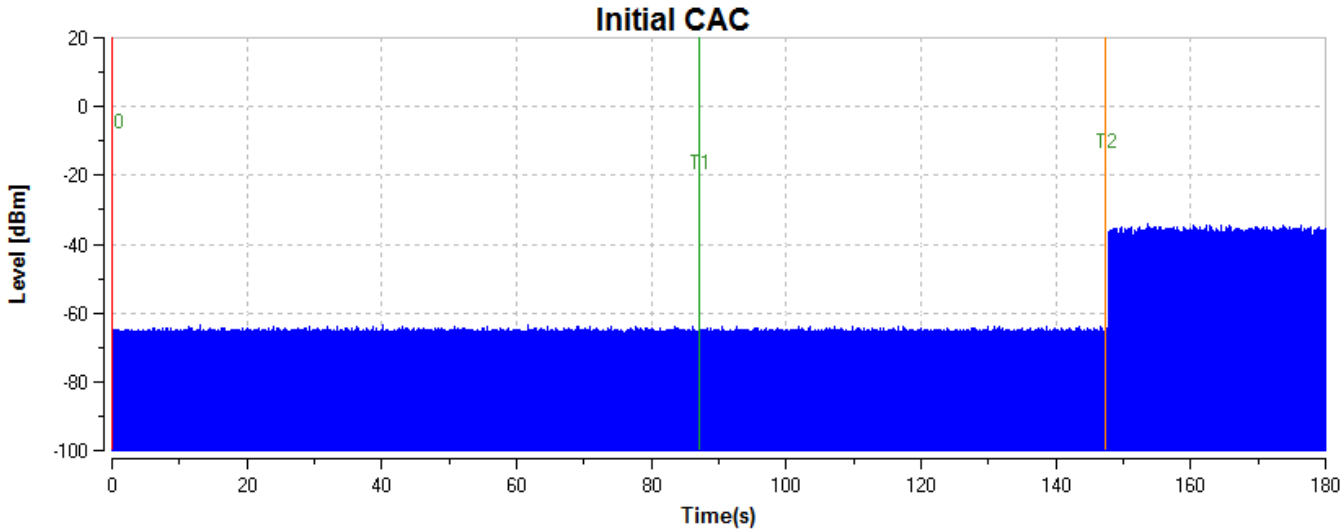
T1 denotes the instant when the UUT has completed its power-up sequence (Tpower_up)



T1 denotes the instant when the UUT has completed its power-up sequence (Tpower_up),

T3 denotes 6 seconds before end of the 60 second Channel Availability Check Time.

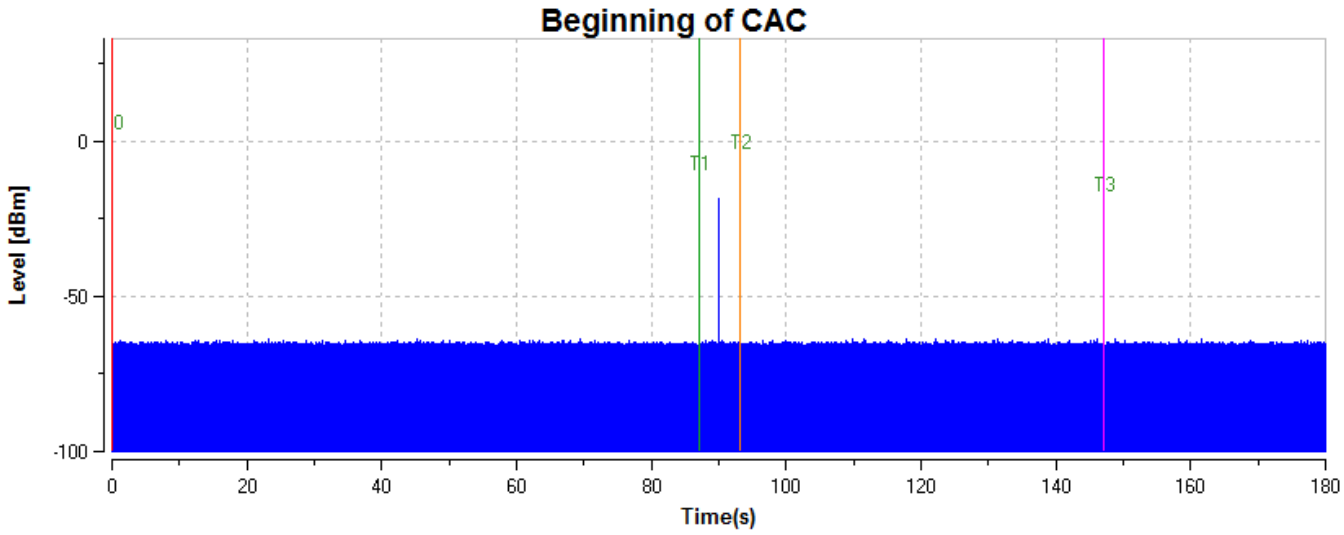
A20-5500MHz



T0(S)	T1(S)	T2(S)	T3(S)
0.000	87.097	147.097	

Note:

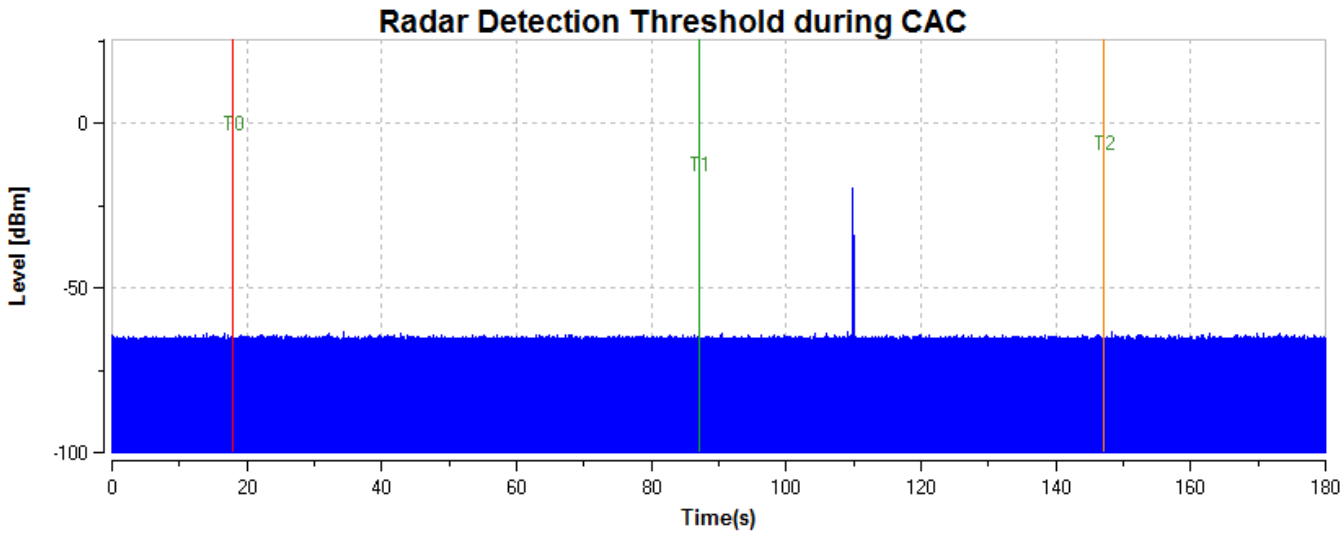
The UUT is powered on at T0,T1 denotes the instant when the UUT has completed its power-up sequence (Tpower_up),T2 denotes the end of Channel Availability Check Time.Channel Availability Check Time is equal to (T2-T1)60S



T0(S)	T1(S)	T2(S)	T3(S)
0.000	87.097	93.097	147.097

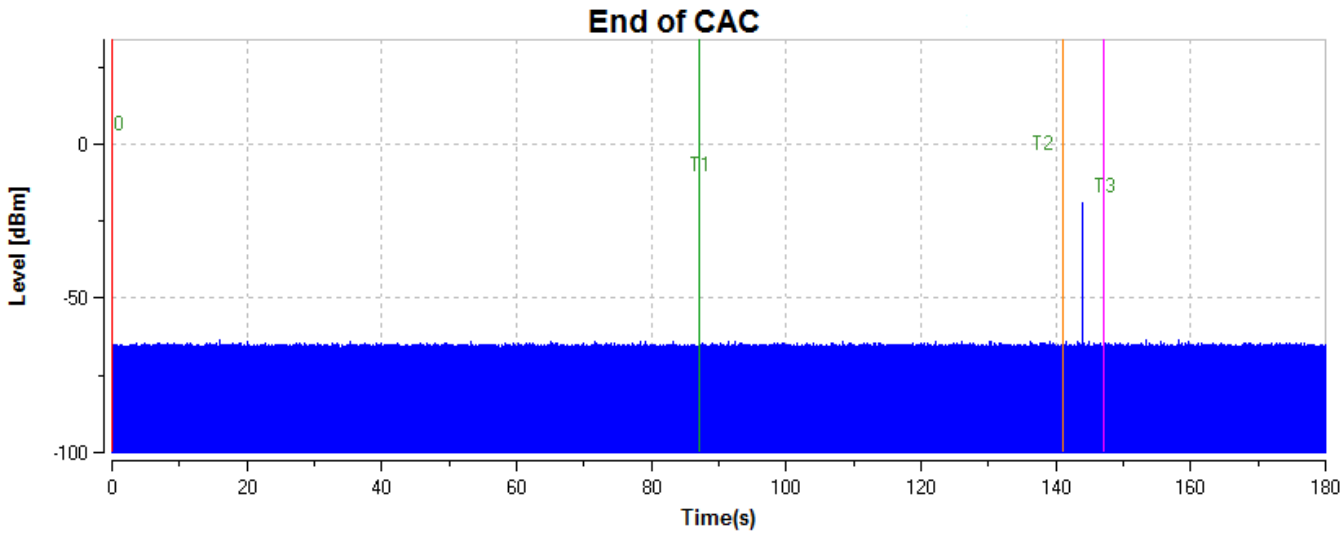
T1 denotes the instant when the UUT has completed its power-up sequence (Tpower_up),

T2 denotes the radar burst was commenced within a 6 second window.



T0(S)	T1(S)	T2(S)	T3(S)
18.000	87.097	147.097	

T1 denotes the instant when the UUT has completed its power-up sequence (Tpower_up)

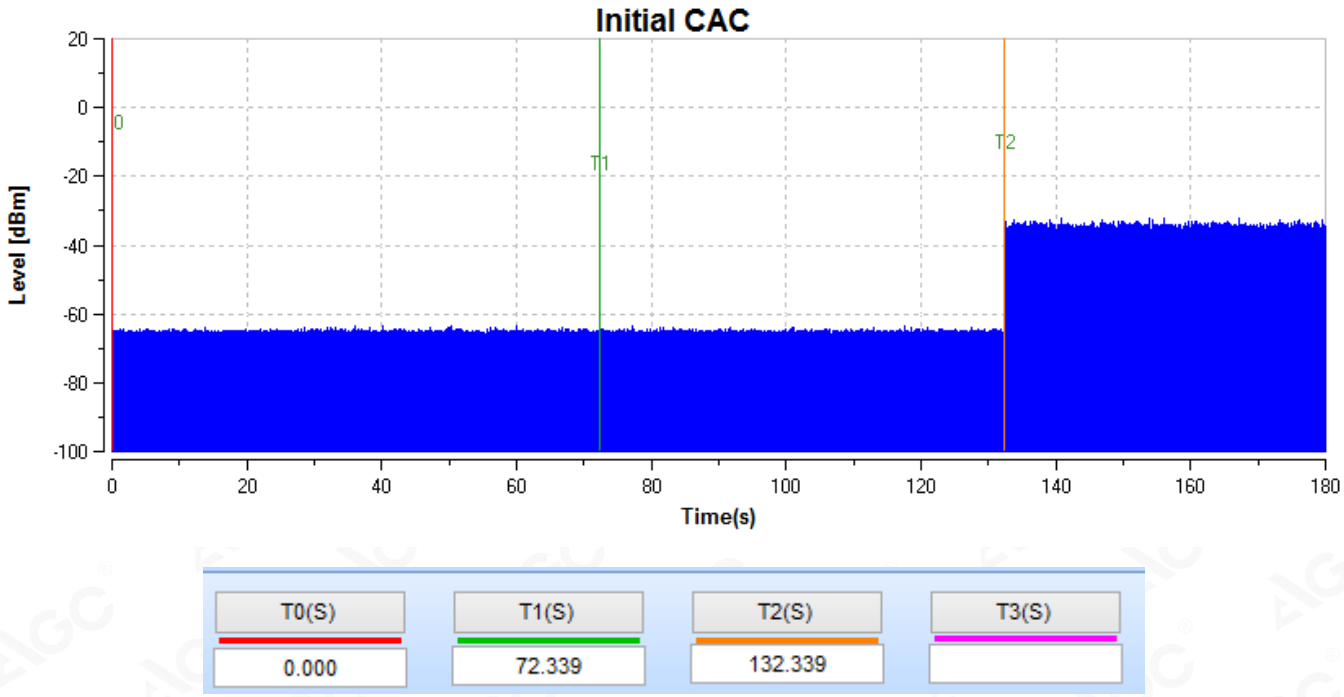


T0(S)	T1(S)	T2(S)	T3(S)
0.000	87.097	141.097	147.097

T1 denotes the instant when the UUT has completed its power-up sequence (Tpower_up),

T3 denotes 6 seconds before end of the 60 second Channel Availability Check Time

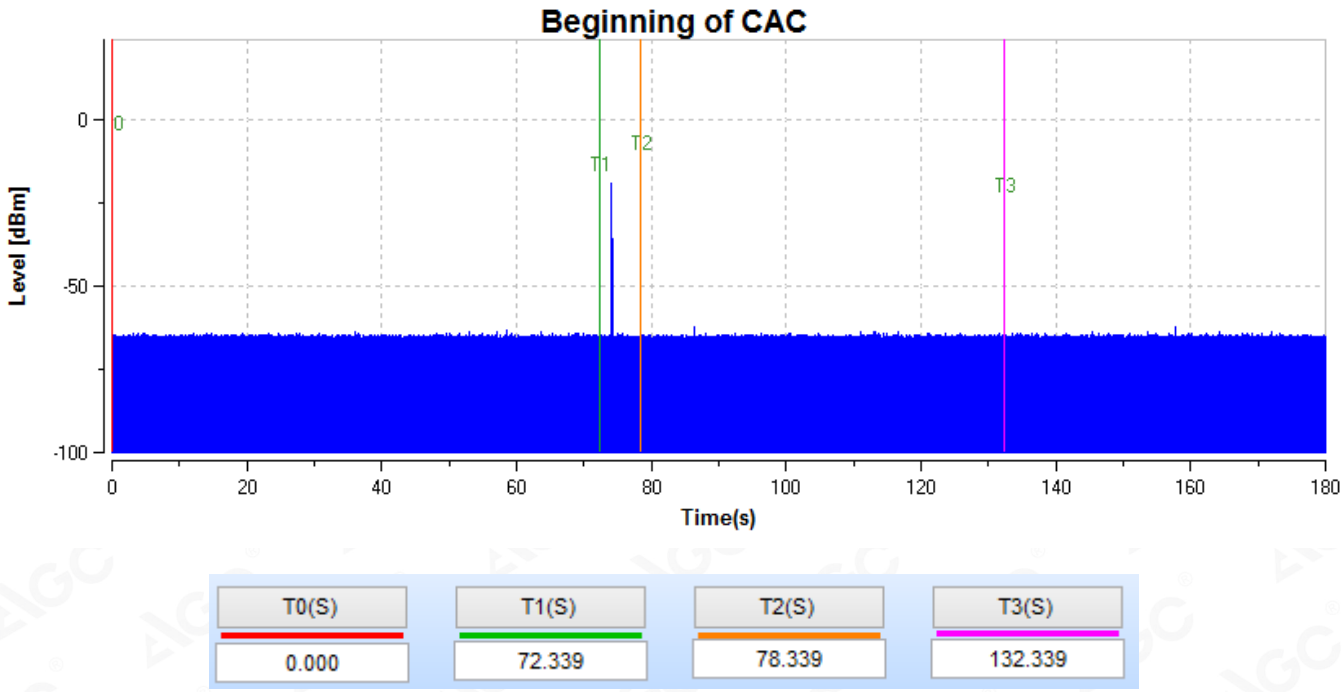
AC80-5290MHz



T0(S)	T1(S)	T2(S)	T3(S)
0.000	72.339	132.339	

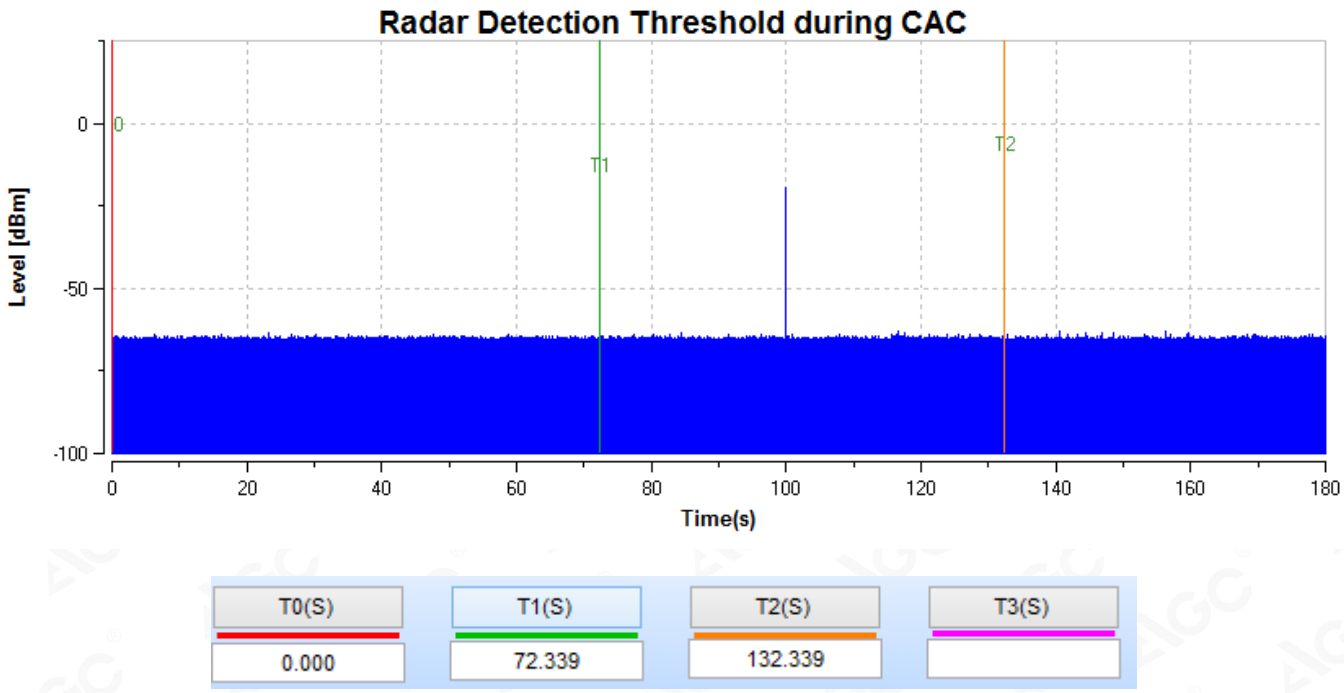
Note:

The UUT is powered on at T0,T1 denotes the instant when the UUT has completed its power-up sequence (Tpower_up),T2 denotes the end of Channel Availability Check Time.Channel Availability Check Time is equal to (T2-T1)60S

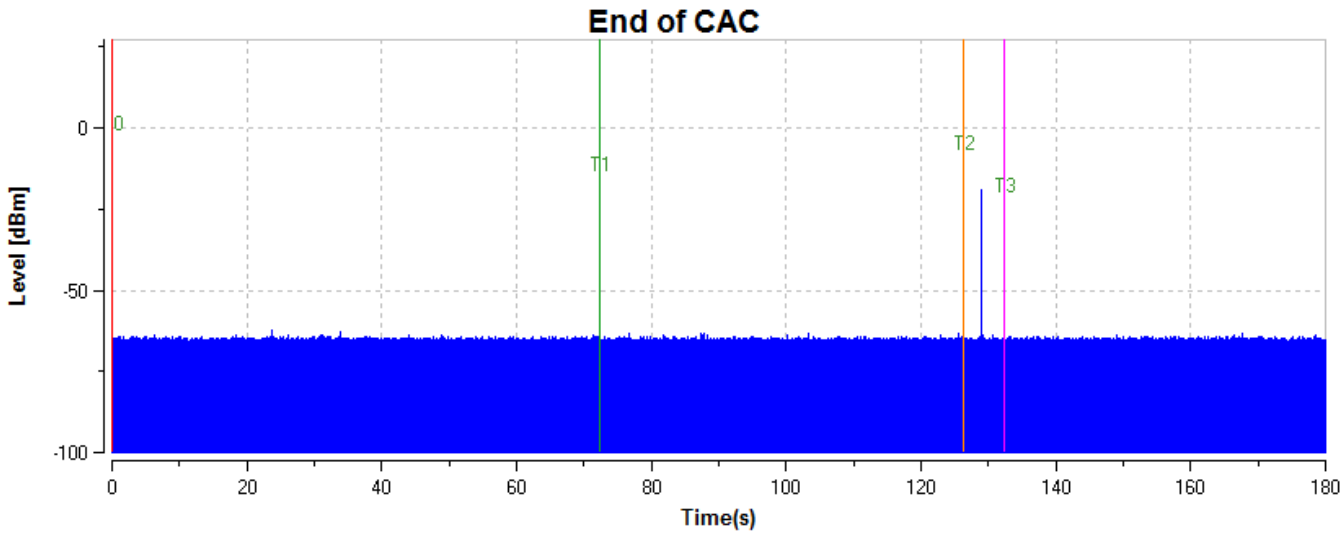


T1 denotes the instant when the UUT has completed its power-up sequence (Tpower_up)

T2 denotes the radar burst was commenced within a 6 second window.



T1 denotes the instant when the UUT has completed its power-up sequence (Tpower_up),

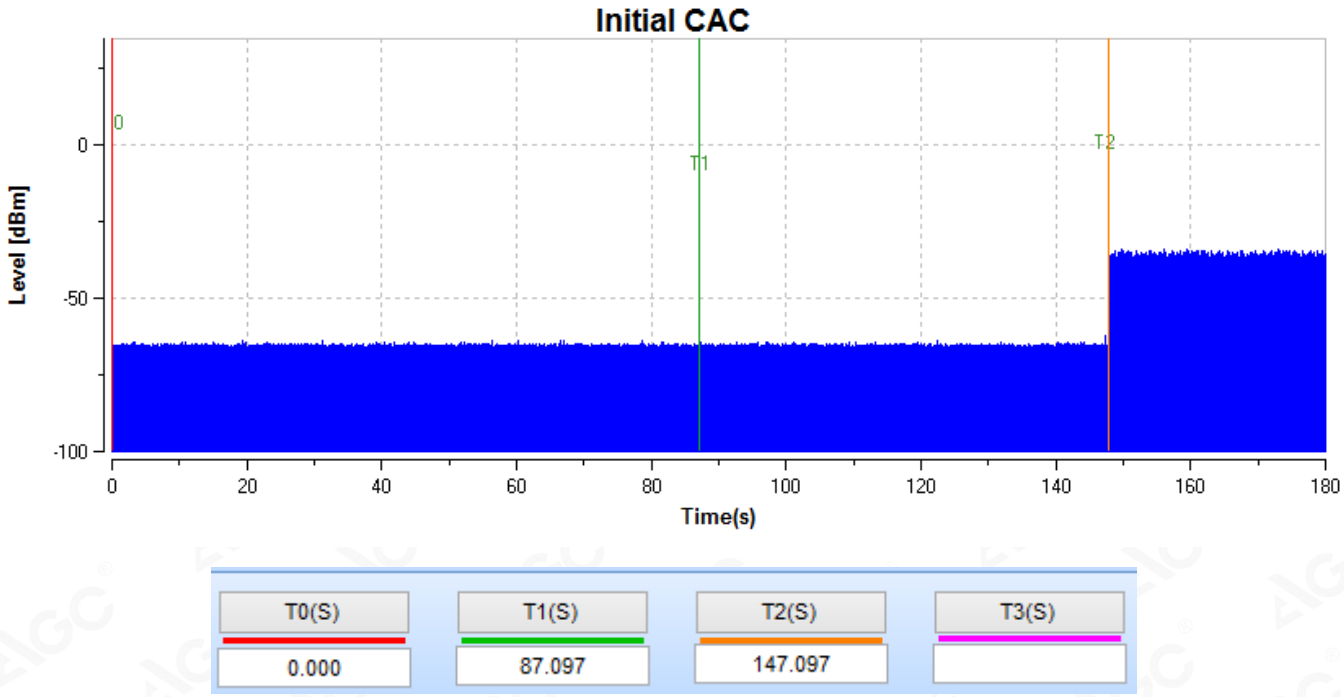


T0(S)	T1(S)	T2(S)	T3(S)
0.000	72.339	126.339	132.339

T1 denotes the instant when the UUT has completed its power-up sequence (Tpower_up),

T3 denotes 6 seconds before end of the 60 second Channel Availability Check Time

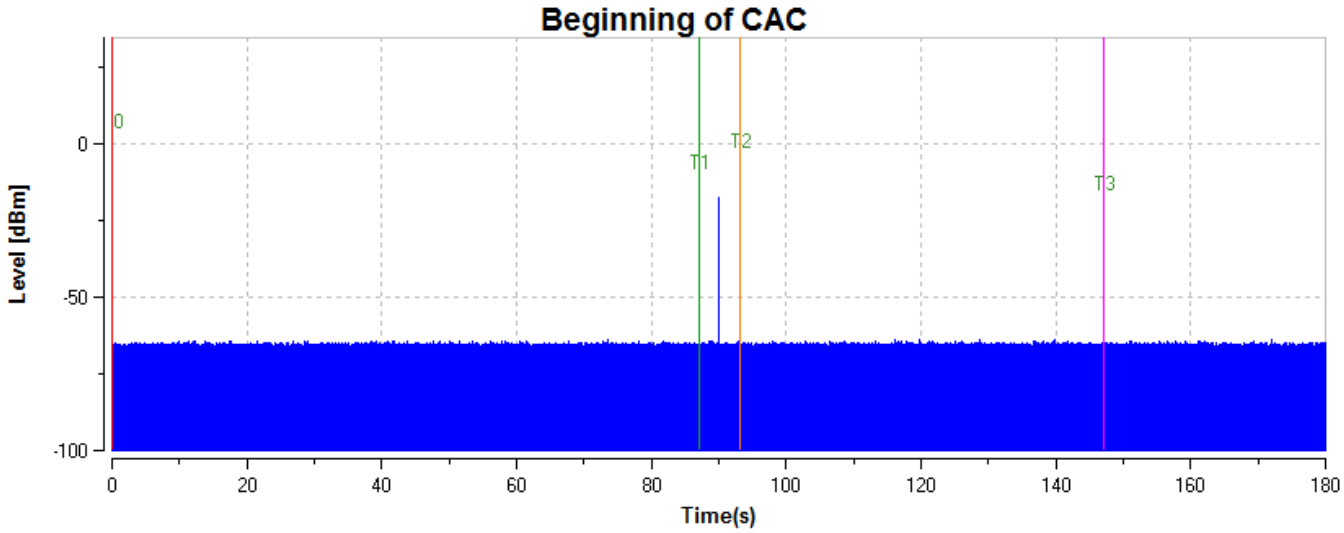
AC80-5530MHz



T0(S)	T1(S)	T2(S)	T3(S)
0.000	87.097	147.097	

Note:

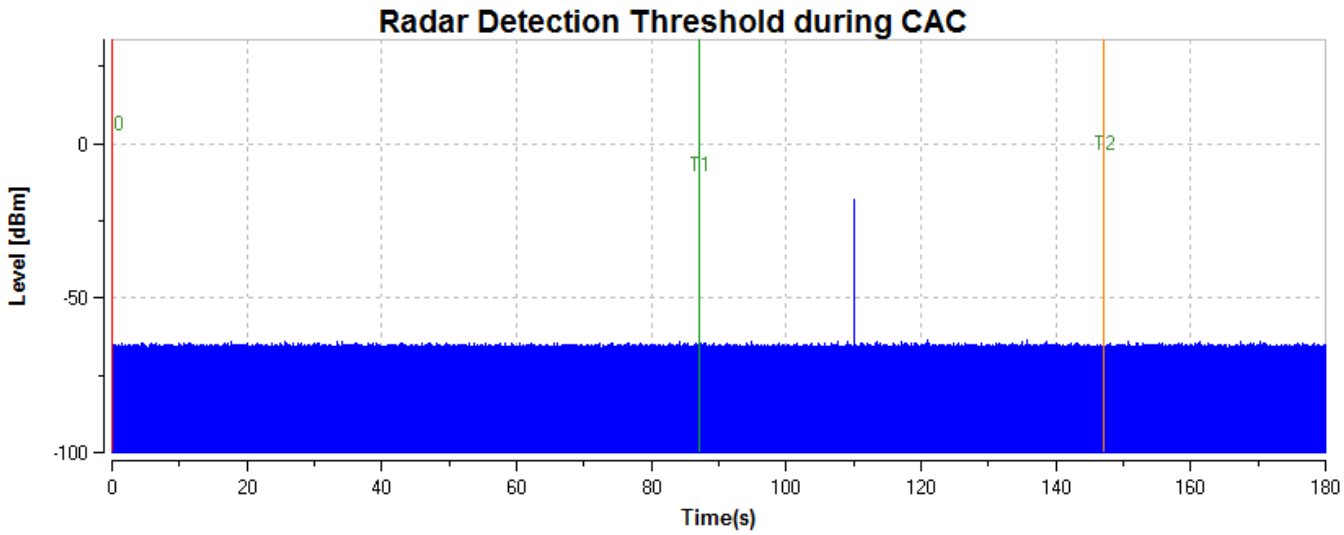
The UUT is powered on at T0,T1 denotes the instant when the UUT has completed its power-up sequence (Tpower_up),T2 denotes the end of Channel Availability Check Time.Channel Availability Check Time is equal to (T2-T1)60S



T0(S)	T1(S)	T2(S)	T3(S)
0.000	87.097	93.097	147.097

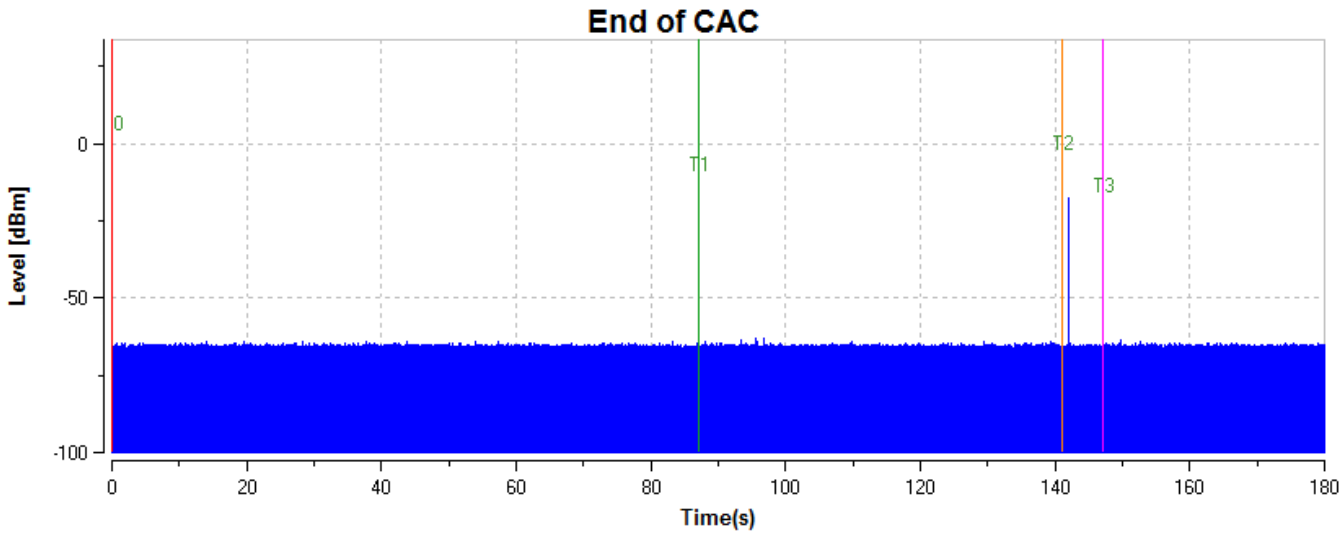
T1 denotes the instant when the UUT has completed its power-up sequence (Tpower_up)

T2 denotes the radar burst was commenced within a 6 second window.



T0(S)	T1(S)	T2(S)	T3(S)
0	87.097	147.097	

T1 denotes the instant when the UUT has completed its power-up sequence (Tpower_up)



T0(S)	T1(S)	T2(S)	T3(S)
0	87.097	141.097	147.097

T1 denotes the instant when the UUT has completed its power-up sequence (Tpower_up),

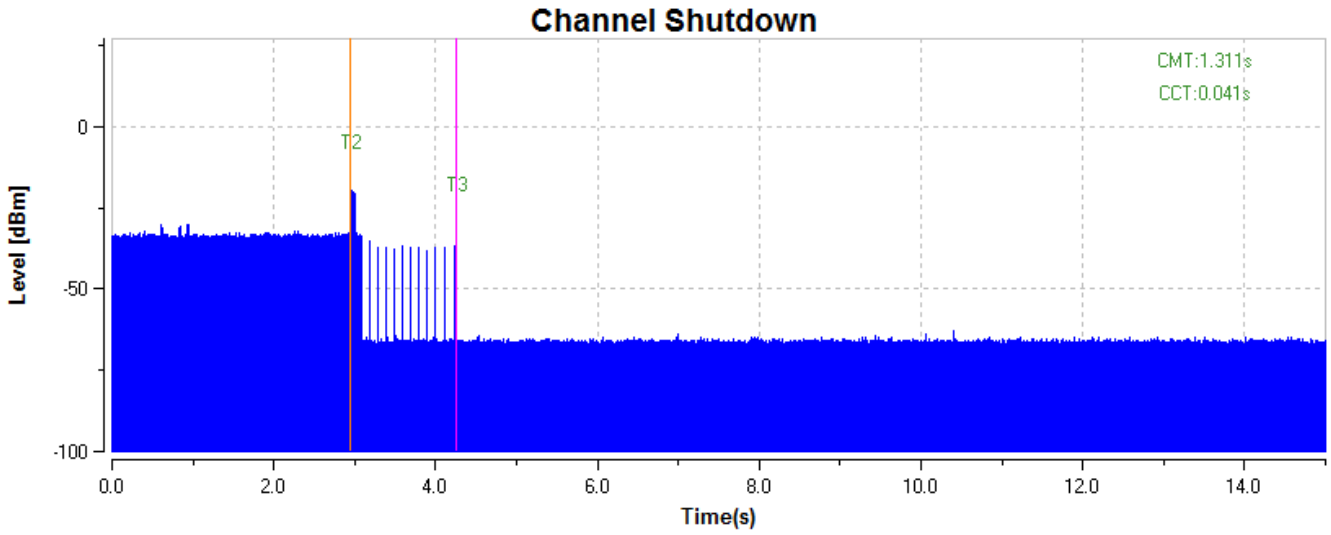
T3 denotes 6 seconds before end of the 60 second Channel Availability Check Time

6.2.3 CHANNEL CLOSING TRANSMISSION AND CHANNEL MOVE TIME WLAN TRAFFIC

Channel Move Time and Channel Closing Transmission Time

Test Frequency	Requirement	Measurement Level	Limit
5260MHz	Channel Closing Transmission Time	0.041	≤0.26s
	Channel Move Time	1.31	≤10s
5500MHz	Channel Closing Transmission Time	0.041	≤0.26s
	Channel Move Time	1.069	≤10s
5290MHz	Channel Closing Transmission Time	0.008	≤0.26s
	Channel Move Time	1.028	≤10s
5530MHz	Channel Closing Transmission Time	0.02	≤0.26s
	Channel Move Time	1.09	≤10s

A20-5260MHz



T0(S)	T1(S)	T2(S)	T3(S)
		2.944	4.275

Control Power Line CMT 1.311 CCT 0.041

Note :

CMT:Channel Move Time

CCT:Channel Closing Transmission Time

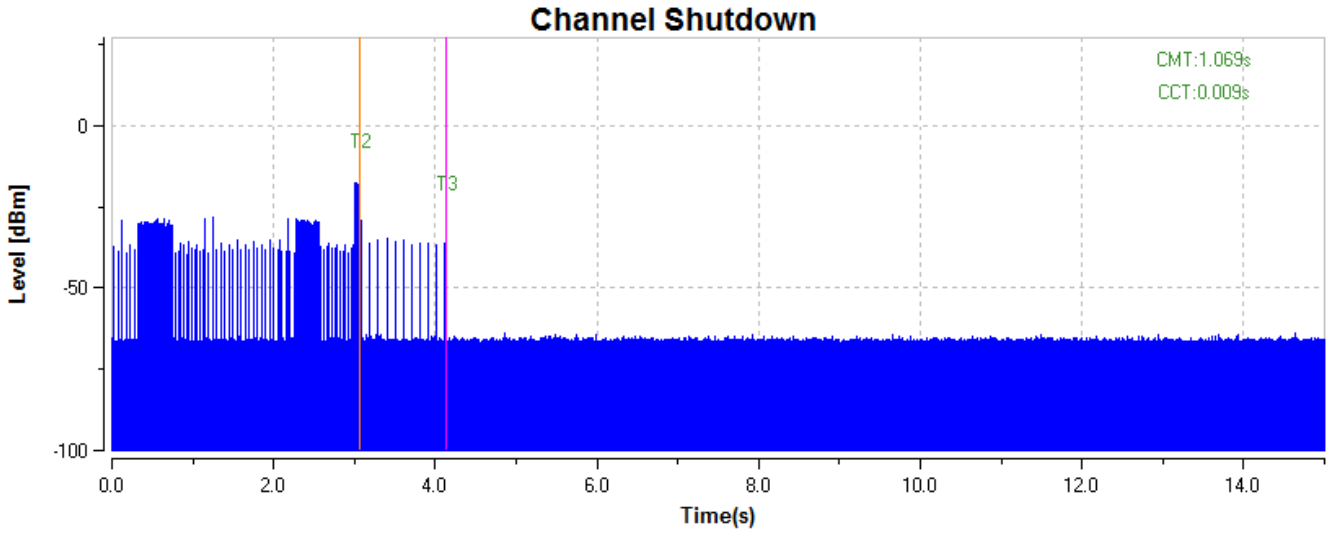
T2 donote injected radar burst.

T3 donote Channel Move Time

Test Frequency	Nr of times triggered	Radar Test Signal(#)					
		1	2	3	4	5	6
802.11ac20 5260MHz	1	Yes	Yes	Yes	Yes	Yes	Yes
	2	Yes	Yes	Yes	Yes	Yes	Yes
	3	Yes	Yes	Yes	Yes	Yes	Yes
	4	No	Yes	Yes	Yes	Yes	Yes
	5	Yes	Yes	Yes	Yes	Yes	Yes
	6	No	No	Yes	Yes	Yes	No
	7	Yes	Yes	Yes	Yes	Yes	Yes
	8	Yes	No	Yes	Yes	Yes	Yes
	9	Yes	Yes	No	Yes	Yes	Yes
	10	Yes	Yes	Yes	Yes	Yes	No
	11	Yes	Yes	Yes	Yes	No	Yes
	12	Yes	Yes	Yes	Yes	Yes	Yes
	13	Yes	Yes	Yes	Yes	Yes	Yes
	14	Yes	No	Yes	Yes	Yes	Yes
	15	Yes	Yes	No	Yes	Yes	Yes
	16	Yes	Yes	Yes	Yes	Yes	Yes
	17	Yes	Yes	No	Yes	Yes	Yes
	18	Yes	Yes	Yes	Yes	Yes	No
	19	Yes	Yes	Yes	No	Yes	Yes
	20	Yes	Yes	Yes	Yes	Yes	Yes
	21	Yes	Yes	Yes	Yes	Yes	No
	22	Yes	No	Yes	Yes	No	Yes
	23	Yes	Yes	Yes	Yes	No	Yes
	24	Yes	Yes	Yes	Yes	Yes	No
	25	Yes	No	Yes	Yes	Yes	Yes
	26	Yes	Yes	Yes	Yes	Yes	Yes
	27	Yes	Yes	Yes	Yes	No	Yes
	28	No	Yes	Yes	Yes	Yes	Yes
	29	Yes	Yes	Yes	Yes	Yes	Yes
	30	No	Yes	Yes	No	Yes	Yes
Successful Detection (%)		86.7	83.3	90.0	93.3	86.7	83.3

Aggregate (Radar Types 1-4): 88.3%

A20-5500MHz



T0(S)	T1(S)	T2(S)	T3(S)
		3.065	4.174

Control Power Line | CMT 1.069 | CCT 0.009

CMT:Channel Move Time

CCT:Channel Closing Transmission Time

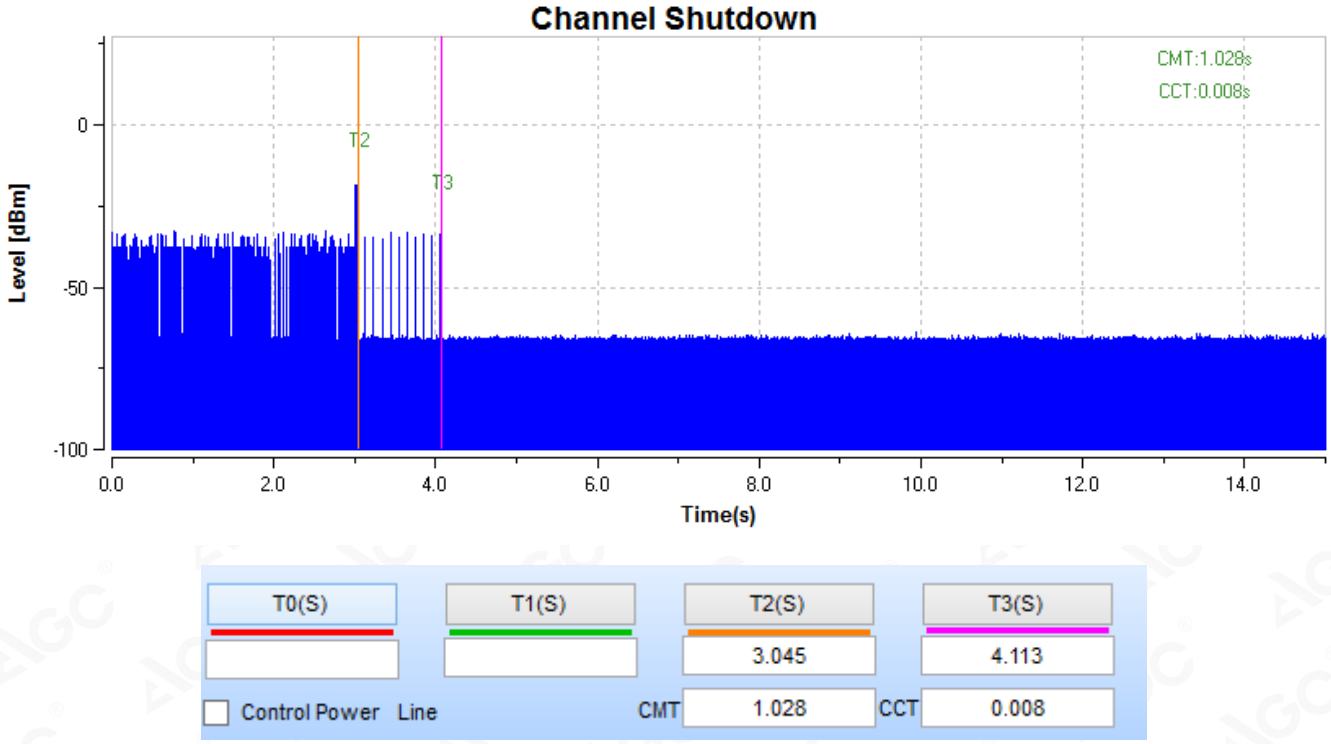
T2 donote injected radar burst.

T3 donote Channel Move Time

Test Frequency	Nr of times triggered	Radar Test Signal(#)					
		1	2	3	4	5	6
802.11ac20 5260MHz	1	Yes	Yes	Yes	Yes	Yes	Yes
	2	Yes	Yes	Yes	Yes	Yes	Yes
	3	Yes	Yes	No	Yes	Yes	Yes
	4	Yes	Yes	Yes	Yes	Yes	Yes
	5	Yes	Yes	Yes	Yes	Yes	Yes
	6	Yes	No	Yes	Yes	Yes	Yes
	7	Yes	Yes	Yes	Yes	Yes	Yes
	8	Yes	Yes	Yes	Yes	Yes	Yes
	9	No	Yes	Yes	Yes	Yes	Yes
	10	Yes	Yes	Yes	Yes	Yes	Yes
	11	No	Yes	Yes	Yes	No	Yes
	12	Yes	Yes	Yes	Yes	Yes	No
	13	Yes	Yes	Yes	Yes	Yes	Yes
	14	Yes	No	Yes	Yes	Yes	Yes
	15	Yes	Yes	Yes	Yes	Yes	Yes
	16	Yes	Yes	Yes	No	No	Yes
	17	Yes	Yes	No	Yes	Yes	Yes
	18	Yes	Yes	Yes	Yes	Yes	No
	19	Yes	Yes	Yes	Yes	Yes	Yes
	20	Yes	Yes	Yes	Yes	Yes	Yes
	21	Yes	Yes	Yes	Yes	Yes	No
	22	Yes	No	Yes	Yes	Yes	Yes
	23	Yes	Yes	Yes	Yes	Yes	Yes
	24	No	Yes	Yes	Yes	Yes	No
	25	Yes	Yes	Yes	No	Yes	Yes
	26	Yes	Yes	Yes	Yes	Yes	Yes
	27	Yes	Yes	Yes	Yes	Yes	Yes
	28	No	No	Yes	Yes	Yes	Yes
	29	Yes	Yes	Yes	Yes	Yes	Yes
	30	Yes	Yes	Yes	Yes	Yes	Yes
Successful Detection (%)		86.7	86.7	93.3	93.3	90.0	86.7

Aggregate (Radar Types 1-4): 90.0%

AC80-5290MHz



CMT:Channel Move Time

CCT:Channel Closing Transmission Time

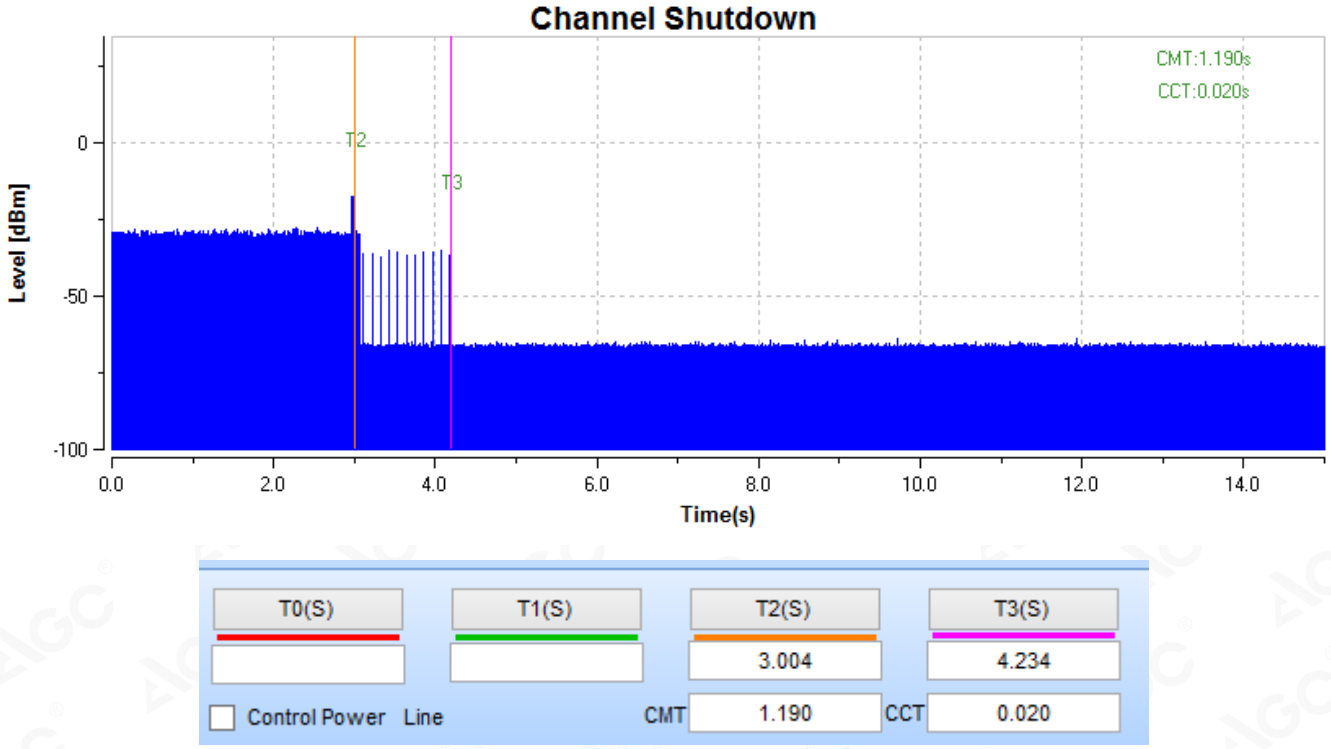
T2 donote injected radar burst.

T3 donote Channel Move Time

Test Frequency	Nr of times triggered	Radar Test Signal(#)					
		1	2	3	4	5	6
802.11ac80 5290MHz	1	Yes	Yes	Yes	Yes	Yes	Yes
	2	Yes	Yes	Yes	Yes	Yes	Yes
	3	Yes	No	Yes	Yes	Yes	Yes
	4	Yes	Yes	Yes	Yes	Yes	Yes
	5	Yes	Yes	Yes	Yes	Yes	Yes
	6	Yes	Yes	Yes	Yes	Yes	Yes
	7	Yes	No	Yes	Yes	Yes	No
	8	Yes	Yes	Yes	Yes	Yes	Yes
	9	Yes	Yes	Yes	Yes	Yes	Yes
	10	Yes	Yes	Yes	Yes	No	Yes
	11	Yes	Yes	Yes	Yes	Yes	Yes
	12	Yes	Yes	Yes	Yes	Yes	Yes
	13	Yes	Yes	Yes	Yes	Yes	Yes
	14	Yes	Yes	Yes	Yes	Yes	Yes
	15	Yes	Yes	Yes	Yes	Yes	Yes
	16	Yes	Yes	Yes	No	Yes	Yes
	17	Yes	Yes	No	Yes	Yes	No
	18	Yes	Yes	Yes	Yes	Yes	Yes
	19	Yes	Yes	Yes	Yes	Yes	Yes
	20	Yes	Yes	Yes	Yes	Yes	Yes
	21	No	Yes	Yes	Yes	Yes	Yes
	22	Yes	Yes	Yes	Yes	Yes	Yes
	23	Yes	Yes	Yes	Yes	Yes	Yes
	24	Yes	Yes	No	Yes	Yes	Yes
	25	Yes	No	Yes	Yes	Yes	Yes
	26	Yes	Yes	Yes	No	Yes	Yes
	27	No	Yes	Yes	Yes	Yes	Yes
	28	Yes	Yes	Yes	Yes	No	Yes
	29	Yes	Yes	Yes	Yes	Yes	Yes
	30	Yes	Yes	Yes	Yes	Yes	Yes
Successful Detection (%)		93.3	90.0	93.3	93.3	93.3	93.3

Aggregate (Radar Types 1-4): 92.5%

AC80-5530MHz



CMT:Channel Move Time

CCT:Channel Closing Transmission Time

T2 donote injected radar burst.

T3 donote Channel Move Time

Test Frequency	Nr of times triggered	Radar Test Signal(#)					
		1	2	3	4	5	6
802.11ac80 5530MHz	1	Yes	Yes	Yes	Yes	Yes	Yes
	2	Yes	Yes	Yes	Yes	Yes	Yes
	3	Yes	Yes	Yes	Yes	Yes	Yes
	4	Yes	Yes	Yes	Yes	Yes	Yes
	5	Yes	Yes	Yes	Yes	Yes	Yes
	6	No	Yes	Yes	Yes	Yes	Yes
	7	Yes	Yes	Yes	Yes	Yes	Yes
	8	Yes	Yes	Yes	Yes	No	Yes
	9	Yes	Yes	Yes	No	Yes	Yes
	10	Yes	No	Yes	Yes	Yes	Yes
	11	Yes	Yes	Yes	Yes	Yes	Yes
	12	Yes	Yes	Yes	Yes	Yes	Yes
	13	Yes	No	Yes	Yes	Yes	No
	14	Yes	Yes	No	Yes	Yes	Yes
	15	Yes	Yes	Yes	Yes	Yes	Yes
	16	Yes	Yes	Yes	No	Yes	Yes
	17	Yes	Yes	Yes	Yes	Yes	Yes
	18	Yes	Yes	Yes	Yes	Yes	Yes
	19	Yes	Yes	Yes	Yes	Yes	Yes
	20	Yes	Yes	Yes	Yes	Yes	Yes
	21	Yes	Yes	Yes	Yes	Yes	Yes
	22	Yes	Yes	Yes	Yes	Yes	Yes
	23	Yes	Yes	Yes	Yes	Yes	Yes
	24	Yes	Yes	Yes	Yes	Yes	Yes
	25	No	No	Yes	Yes	Yes	Yes
	26	Yes	Yes	Yes	Yes	No	Yes
	27	Yes	Yes	Yes	Yes	Yes	No
	28	Yes	Yes	Yes	Yes	Yes	Yes
	29	Yes	Yes	Yes	Yes	Yes	Yes
	30	Yes	Yes	Yes	Yes	Yes	Yes
Successful Detection (%)		93.3	0.9	96.7	93.3	93.3	93.3

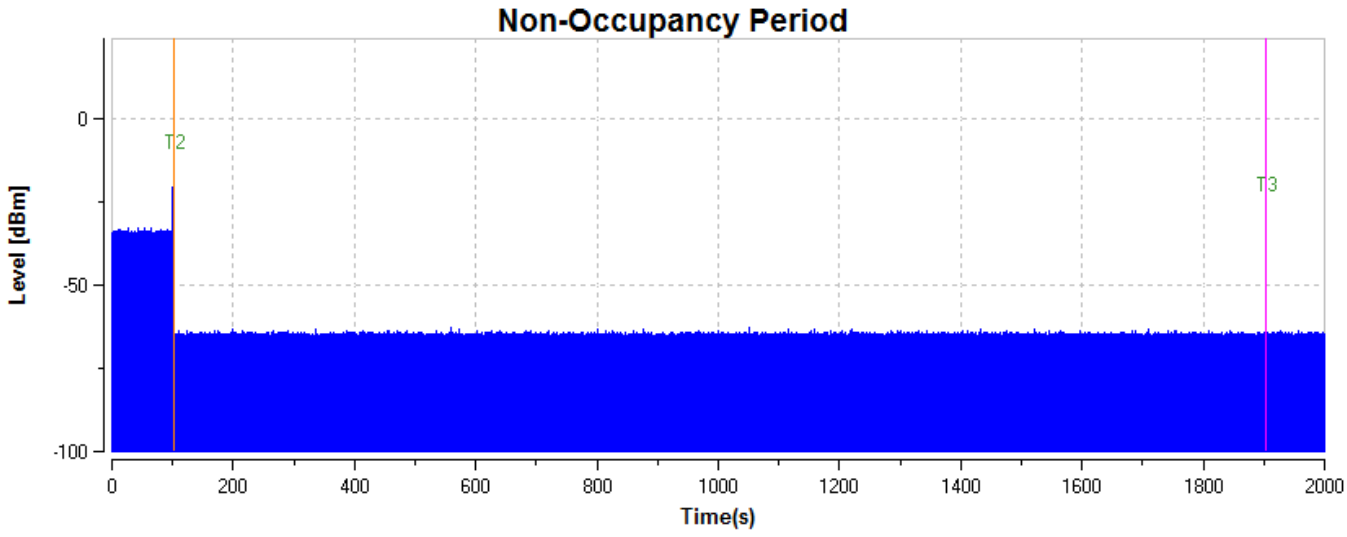
Aggregate (Radar Types 1-4): 93.3%

RESULT: PASS

6.2.4 NON- OCCUPANCY PERIOD

During the 30 minutes observation time, UUT did not make any transmissions on a channel after a radar signal was detected on that channel by either the Channel Availability Check or the In-Service Monitoring.

A20-5260MHz

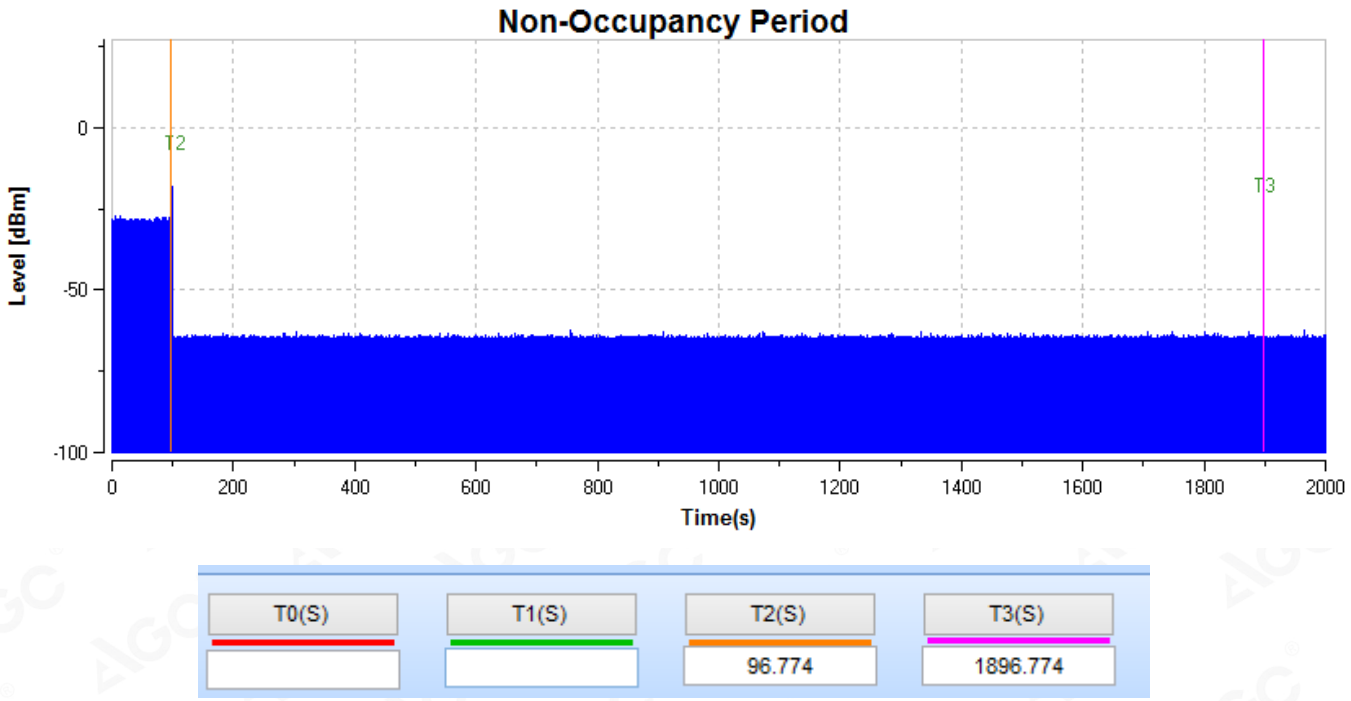


T0(S)	T1(S)	T2(S)	T3(S)
		102.151	1902.151

Note:

T3-T2 denotes Non-occupancy period

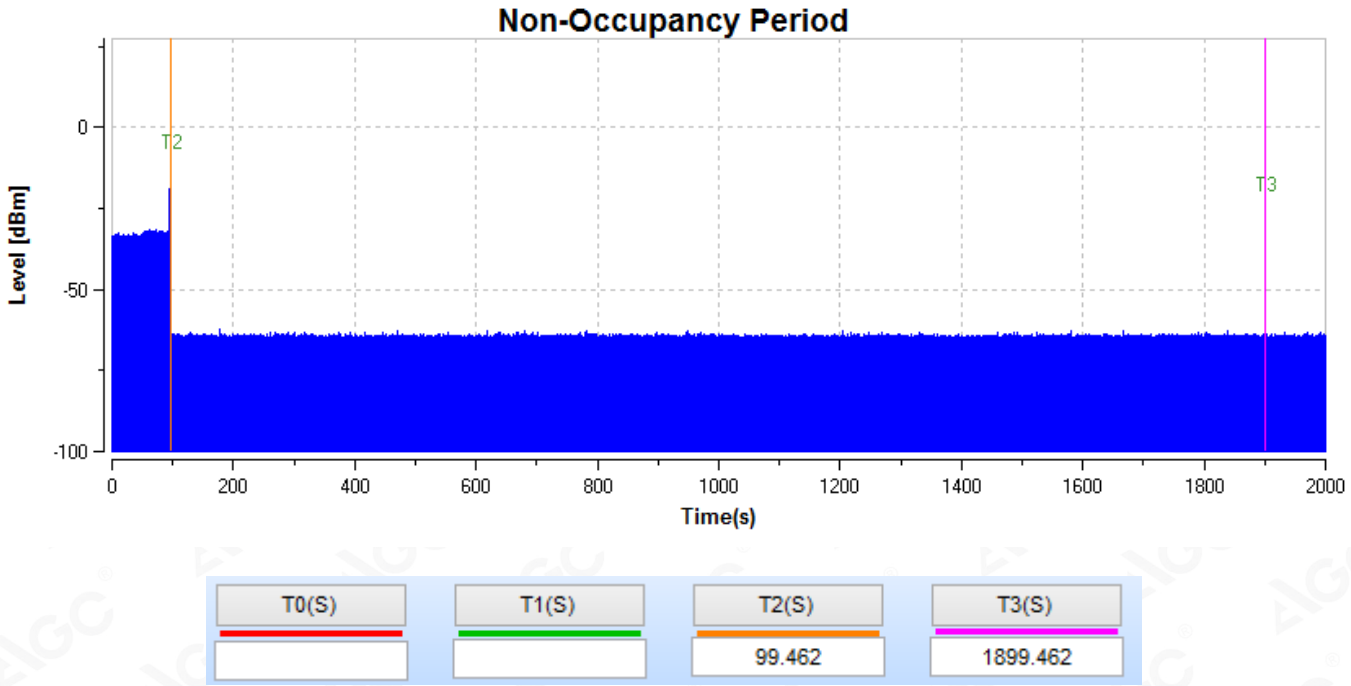
A20-5500MHz



Note:

T3-T2 denotes Non-occupancy period

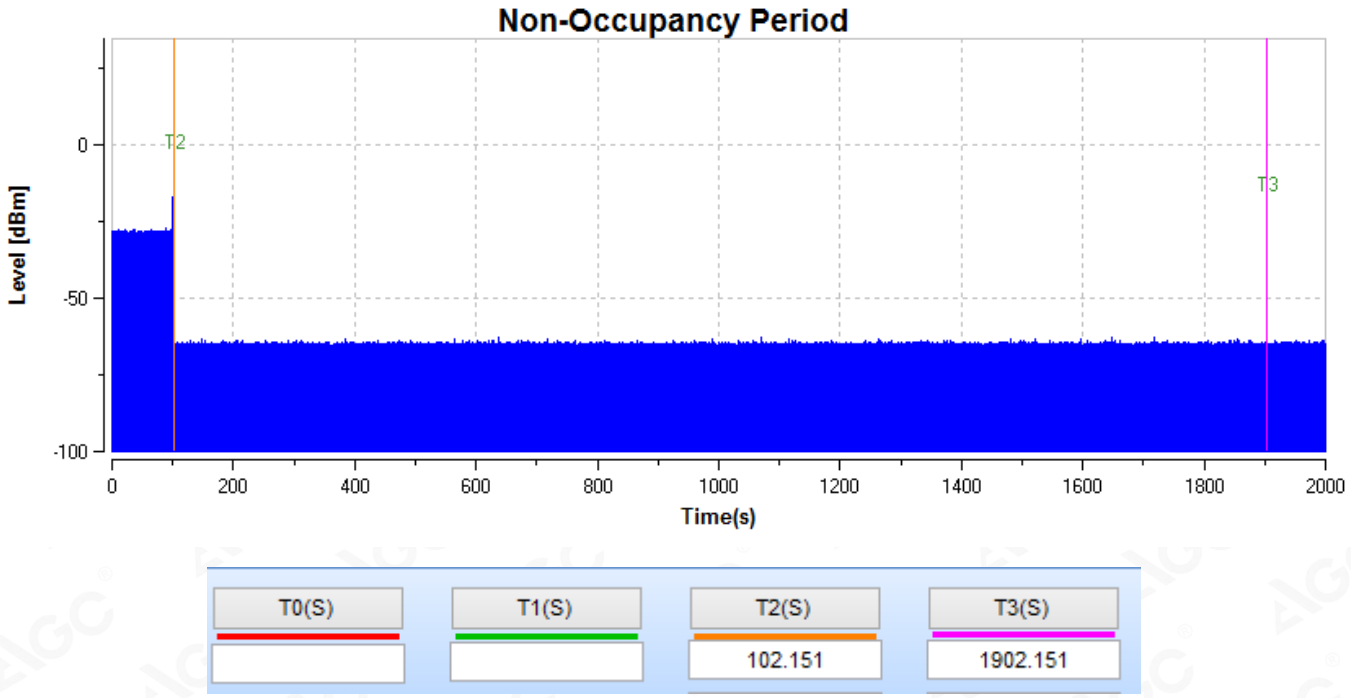
AC80-5290MHz



Note:

T3-T2 denotes Non-occupancy period

AC80-5530

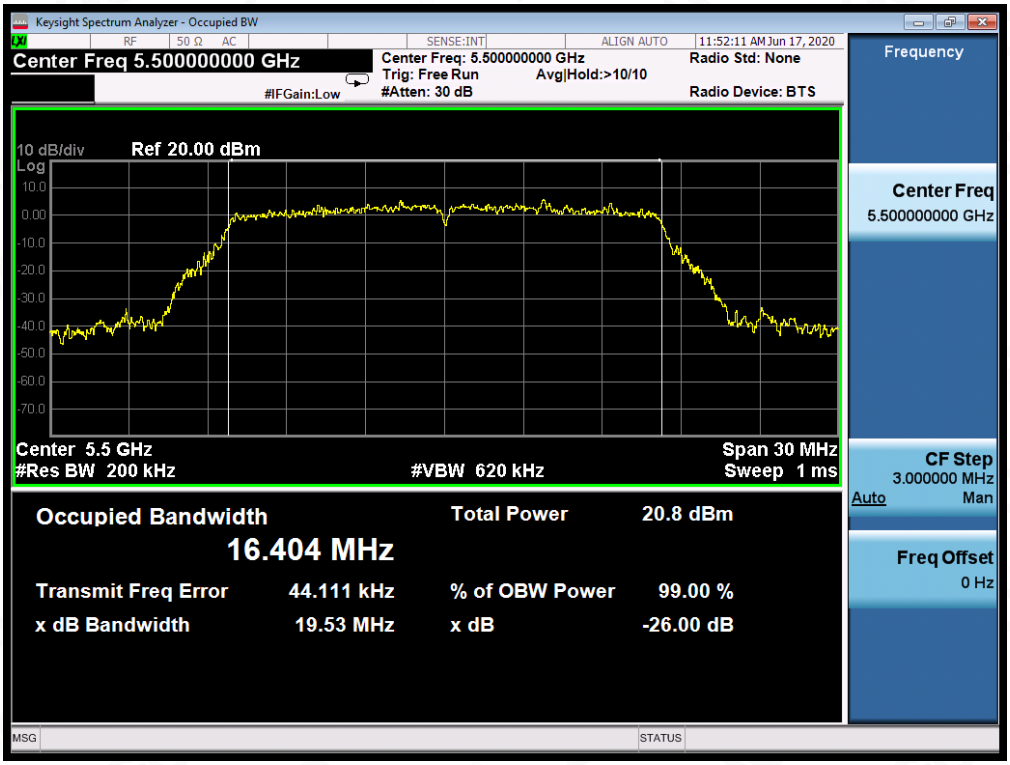


Note:

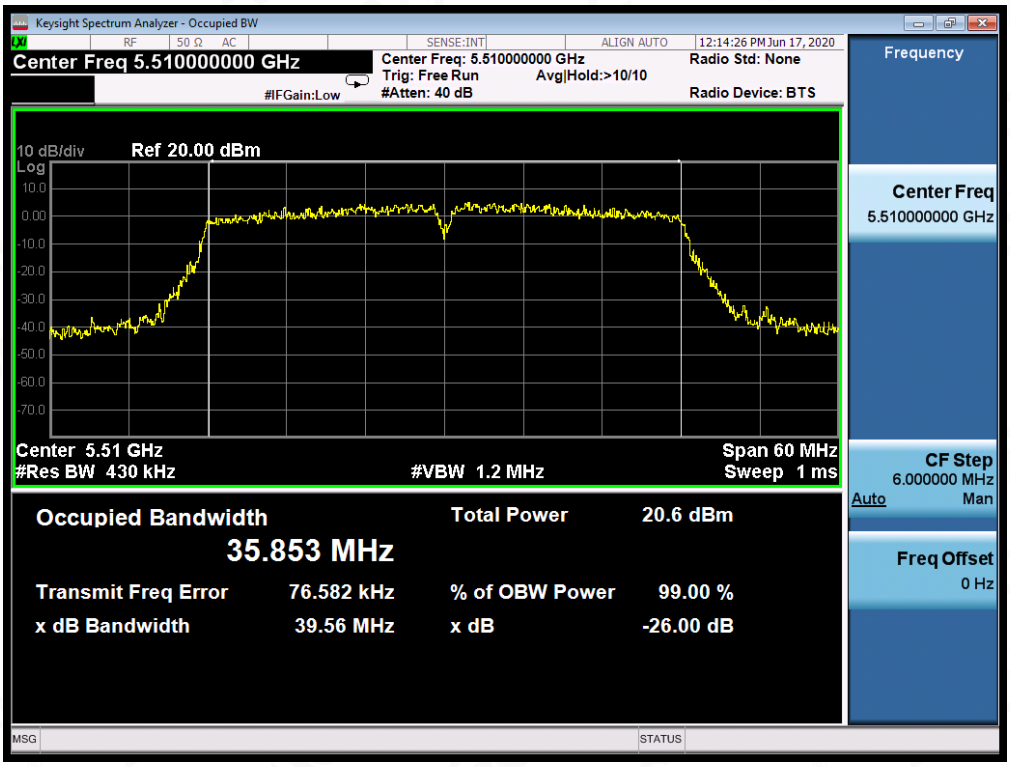
T3-T2 denotes Non-occupancy period

6.2.5 U-NII Detection Bandwidth

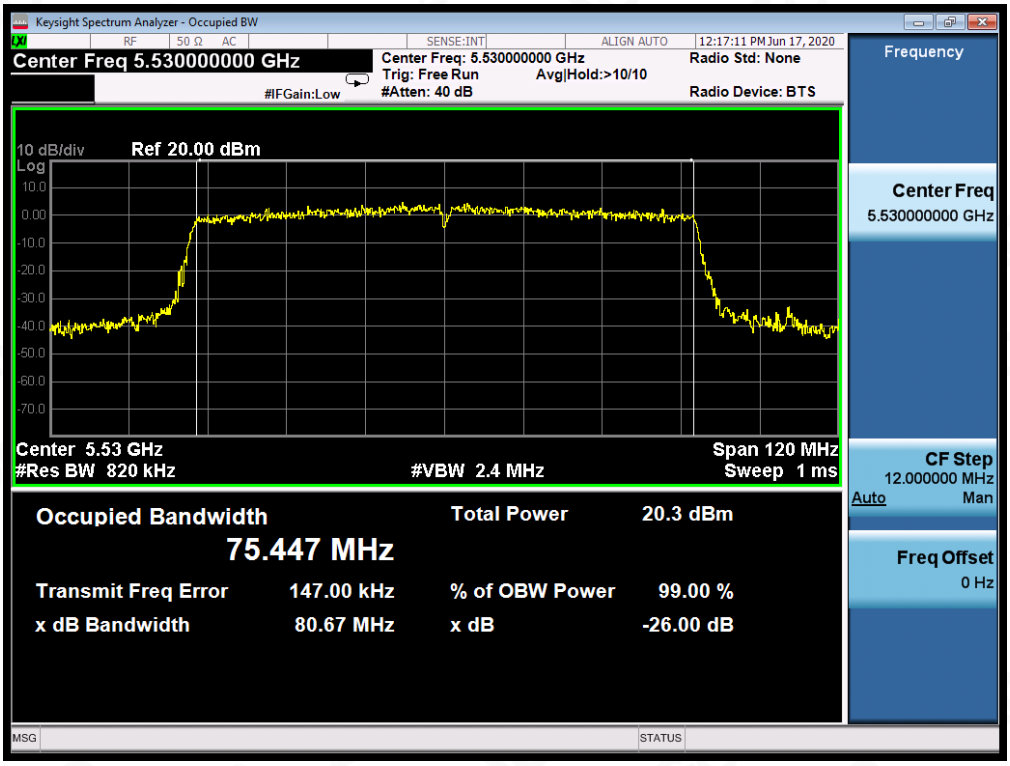
802.11A 5500MHz



802.11N40 5510MHz



802.11AC80 5530MHz



Detection Bandwith test802.11 a20											
Test frequrency	5500MHz										
EUT power bandwith	16.40MHz										
Detection bandwith limit(100%of 99% power bandwith	16.4MHz										
Detection bandwith	20MHz										
Test result	pass										
Radar Freq(MHz)	DFS Detection Trials（1=detection,0=No detection）										
	1	2	3	4	5	6	7	8	9	10	Detection Rate(%)
5489	0	0	1	0	0	1	1	0	1	0	40
5490	1	1	0	0	1	0	1	0	1	0	50
5491(FL)	1	1	1	1	1	1	1	1	1	1	100
5492	1	1	1	1	1	1	1	1	1	1	100
5493	1	1	1	1	1	1	1	1	1	1	100
5494	1	1	1	1	1	1	1	1	1	1	100
5495	1	1	1	1	1	1	1	1	1	1	100
5496	1	1	1	1	1	1	1	1	1	1	100
5497	1	1	1	1	1	1	1	1	1	1	100
5498	1	1	1	1	1	1	1	1	1	1	100
5499	1	1	1	1	1	1	1	1	1	1	100
5500	1	1	1	1	1	1	1	1	1	1	100
5501	1	1	1	1	1	1	1	1	1	1	100
5502	1	1	1	1	1	1	1	1	1	1	100
5503	1	1	1	1	1	1	1	1	1	1	100
5504	1	1	1	1	1	1	1	1	1	1	100
5505	1	1	1	1	1	1	1	1	1	1	100
5506	1	1	1	1	1	1	1	1	1	1	100
5507	1	1	1	1	1	1	1	1	1	1	100
5508	1	1	1	1	1	1	1	1	1	1	100
5509(FH)	1	1	1	1	1	1	1	1	1	1	100
5510	1	0	1	0	0	1	0	1	1	0	50
5511	0	0	1	1	1	1	0	1	0	0	50

Detection Bandwith test802.11 n40											
Test frequrency	5510MHz										
EUT power bandwith	35.85MHz										
Detection bandwith limit(100%of 99% power bandwith	35.85MHz										
Detection bandwith	40MHz										
Test result	pass										

Radar Freq(MHz)	DFS Detection Trials（1=detection,0=No detection）										
	1	2	3	4	5	6	7	8	9	10	Detection Rate(%)
5489	0	1	0	1	1	0	0	0	1	0	40
5490	0	1	0	1	0	0	1	1	0	0	40
5491(FL)	1	1	1	1	1	1	1	1	1	1	100
5492	1	1	1	1	1	1	1	1	1	1	100
5493	1	1	1	1	1	1	1	1	1	1	100
5494	1	1	1	1	1	1	1	1	1	1	100
5495	1	1	1	1	1	1	1	1	1	1	100
5496	1	1	1	1	1	1	1	1	1	1	100
5497	1	1	1	1	1	1	1	1	1	1	100
5498	1	1	1	1	1	1	1	1	1	1	100
5499	1	1	1	1	1	1	1	1	1	1	100
5500	1	1	1	1	1	1	1	1	1	1	100
5501	1	1	1	1	1	1	1	1	1	1	100
5502	1	1	1	1	1	1	1	1	1	1	100
5503	1	1	1	1	1	1	1	1	1	1	100
5504	1	1	1	1	1	1	1	1	1	1	100
5505	1	1	1	1	1	1	1	1	1	1	100
5506	1	1	1	1	1	1	1	1	1	1	100
5507	1	1	1	1	1	1	1	1	1	1	100
5508	1	1	1	1	1	1	1	1	1	1	100
5509	1	1	1	1	1	1	1	1	1	1	100
5510	1	1	1	1	1	1	1	1	1	1	100
5511	1	1	1	1	1	1	1	1	1	1	100
5512	1	1	1	1	1	1	1	1	1	1	100

5513	1	1	1	1	1	1	1	1	1	1	100
5514	1	1	1	1	1	1	1	1	1	1	100
5515	1	1	1	1	1	1	1	1	1	1	100
5516	1	1	1	1	1	1	1	1	1	1	100
5517	1	1	1	1	1	1	1	1	1	1	100
5518	1	1	1	1	1	1	1	1	1	1	100
5519	1	1	1	1	1	1	1	1	1	1	100
5520	1	1	1	1	1	1	1	1	1	1	100
5521	1	1	1	1	1	1	1	1	1	1	100
5522	1	1	1	1	1	1	1	1	1	1	100
5523	1	1	1	1	1	1	1	1	1	1	100
5524	1	1	1	1	1	1	1	1	1	1	100
5525	1	1	1	1	1	1	1	1	1	1	100
5526	1	1	1	1	1	1	1	1	1	1	100
5527	1	1	1	1	1	1	1	1	1	1	100
5528	1	1	1	1	1	1	1	1	1	1	100
5529(FH)	1	1	1	1	1	1	1	1	1	1	100
5530	0	1	0	0	1	1	0	1	1	0	50
5531	1	0	1	1	1	0	0	0	0	0	40

Detection Bandwith test802.11 AC80											
Test frequrency	5530MHz										
EUT power bandwith	75.45MHz										
Detection bandwith limit(100%of 99% power bandwith	75.45MHz										
Detection bandwith	80MHz										
Test result	pass										

Radar Freq(MHz)	DFS Detection Trials（1=detection,0=No detection）										
	1	2	3	4	5	6	7	8	9	10	Detection Rate(%)
5489	0	0	0	1	1	0	1	0	0	0	30
5490	1	0	1	0	0	0	0	1	0	1	40
5491(FL)	1	1	1	1	1	1	1	1	1	1	100
5492	1	1	1	1	1	1	1	1	1	1	100
5493	1	1	1	1	1	1	1	1	1	1	100
5494	1	1	1	1	1	1	1	1	1	1	100
5495	1	1	1	1	1	1	1	1	1	1	100
5496	1	1	1	1	1	1	1	1	1	1	100
5497	1	1	1	1	1	1	1	1	1	1	100
5498	1	1	1	1	1	1	1	1	1	1	100
5499	1	1	1	1	1	1	1	1	1	1	100
5500	1	1	1	1	1	1	1	1	1	1	100
5501	1	1	1	1	1	1	1	1	1	1	100
5502	1	1	1	1	1	1	1	1	1	1	100
5503	1	1	1	1	1	1	1	1	1	1	100
5504	1	1	1	1	1	1	1	1	1	1	100
5505	1	1	1	1	1	1	1	1	1	1	100
5506	1	1	1	1	1	1	1	1	1	1	100
5507	1	1	1	1	1	1	1	1	1	1	100
5508	1	1	1	1	1	1	1	1	1	1	100
5509	1	1	1	1	1	1	1	1	1	1	100
5510	1	1	1	1	1	1	1	1	1	1	100
5511	1	1	1	1	1	1	1	1	1	1	100
5512	1	1	1	1	1	1	1	1	1	1	100

5513	1	1	1	1	1	1	1	1	1	1	100
5514	1	1	1	1	1	1	1	1	1	1	100
5515	1	1	1	1	1	1	1	1	1	1	100
5516	1	1	1	1	1	1	1	1	1	1	100
5517	1	1	1	1	1	1	1	1	1	1	100
5518	1	1	1	1	1	1	1	1	1	1	100
5519	1	1	1	1	1	1	1	1	1	1	100
5520	1	1	1	1	1	1	1	1	1	1	100
5521	1	1	1	1	1	1	1	1	1	1	100
5522	1	1	1	1	1	1	1	1	1	1	100
5523	1	1	1	1	1	1	1	1	1	1	100
5524	1	1	1	1	1	1	1	1	1	1	100
5525	1	1	1	1	1	1	1	1	1	1	100
5526	1	1	1	1	1	1	1	1	1	1	100
5527	1	1	1	1	1	1	1	1	1	1	100
5528	1	1	1	1	1	1	1	1	1	1	100
5529	1	1	1	1	1	1	1	1	1	1	100
5530	1	1	1	1	1	1	1	1	1	1	100
5531	1	1	1	1	1	1	1	1	1	1	100
5532	1	1	1	1	1	1	1	1	1	1	100
5533	1	1	1	1	1	1	1	1	1	1	100
5534	1	1	1	1	1	1	1	1	1	1	100
5535	1	1	1	1	1	1	1	1	1	1	100
5536	1	1	1	1	1	1	1	1	1	1	100
5537	1	1	1	1	1	1	1	1	1	1	100
5538	1	1	1	1	1	1	1	1	1	1	100
5539	1	1	1	1	1	1	1	1	1	1	100
5540	1	1	1	1	1	1	1	1	1	1	100
5541	1	1	1	1	1	1	1	1	1	1	100
5542	1	1	1	1	1	1	1	1	1	1	100

5543	1	1	1	1	1	1	1	1	1	1	100
5544	1	1	1	1	1	1	1	1	1	1	100
5545	1	1	1	1	1	1	1	1	1	1	100
5546	1	1	1	1	1	1	1	1	1	1	100
5547	1	1	1	1	1	1	1	1	1	1	100
5548	1	1	1	1	1	1	1	1	1	1	100
5549	1	1	1	1	1	1	1	1	1	1	100
5550	1	1	1	1	1	1	1	1	1	1	100
5551	1	1	1	1	1	1	1	1	1	1	100
5552	1	1	1	1	1	1	1	1	1	1	100
5553	1	1	1	1	1	1	1	1	1	1	100
5554	1	1	1	1	1	1	1	1	1	1	100
5555	1	1	1	1	1	1	1	1	1	1	100
5556	1	1	1	1	1	1	1	1	1	1	100
5557	1	1	1	1	1	1	1	1	1	1	100
5558	1	1	1	1	1	1	1	1	1	1	100
5559	1	1	1	1	1	1	1	1	1	1	100
5560	1	1	1	1	1	1	1	1	1	1	100
5561	1	1	1	1	1	1	1	1	1	1	100
5562	1	1	1	1	1	1	1	1	1	1	100
5563	1	1	1	1	1	1	1	1	1	1	100
5564	1	1	1	1	1	1	1	1	1	1	100
5565	1	1	1	1	1	1	1	1	1	1	100
5566	1	1	1	1	1	1	1	1	1	1	100
5567	1	1	1	1	1	1	1	1	1	1	100
5568	1	1	1	1	1	1	1	1	1	1	100
5569(FH)	1	1	1	1	1	1	1	1	1	1	100
5570	1	0	1	0	0	0	1	0	1	0	40
5571	1	0	0	1	0	0	1	0	1	1	50

APPENDIX A: PHOTOGRAPHS OF TEST SETUP

APPENDIX B: PHOTOGRAPHS OF EUT

Refer to the Report No.: AGC00210200519AP01

----END OF REPORT----