

TEST REPORT



CTK Co., Ltd.

(Ho-dong), 113, Yejik-ro, Cheoin-gu,
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Report No.:
CTK-2023-01327
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1. Applicant

- Name : Samsung Electronics Co Ltd
- Address : 19 Chapin Rd, Building D. Pine Brook, New Jersey, United States
- Date of Receipt : 2023-03-20

2. Manufacturer

- Name : Samsung Electronics Co., Ltd.
- Address : 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea

3. Factory

- Name #1: CHEMTRONICS CO.,LTD.
- Address #1: 35, Buk-ri, Namsa-myeon, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea
- Name #2: Chengdu Xuguang Technology Co., Ltd.
- Address #2: No.86 2nd Section, Park Road, Longquanyi District, Chengdu City, Sichuan Province, P.R.China
- Name #3: CHEMTROVINA COMPANY LIMITED
- Address #3: Nhon Trach 2 - Loc Khang IZ, Hiep Phuoc Town, Nhon Trach District, Dong Nai Province, Vietnam

4. Use of Report : For FCC Conformance

5. Test Sample / Model: Wi-Fi/BT Transceiver / WCC941M

6. Date of Test : 2023-04-10 to 2023-06-08

7. Test Standard(method) used : FCC 47 CFR part 15 subpart E 15.407

8. Testing Environment: Temp.: (23 ± 1) °C, Humidity: (36 ± 3) % R.H.

9. Test Results : Compliance

10. Location of Test : Permanent Testing Lab On Site Testing

(Address : (Unhak-Dong) 5, Dongbu-ro 221beon-gil, Cheoin-gu, Yong-in-si, Gyeonggi-do, Korea)



The results shown in this test report refer only to the sample(s) tested unless otherwise stated.

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Approval	Tested by  Ji-Hye, Kim: (Signature)	Technical Manager  Won-Jae, Hwang: (Signature)
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Remark. This report is not related to KOLAS accreditation and relevant regulation.

2023-06-14

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REPORT REVISION HISTORY

Date	Revision	Page No
2023-06-14	Issued (CTK-2023-01327)	all

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1. General Product Description

1.1 Applicant Information

Company	Samsung Electronics Co., Ltd.
Contact Point	129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea
Contact Person	Name : Minhyung Cho E-mail : mh719.cho@samsung.com Tel : +82-31-277-2688 Fax : -

1.2 Product Information

FCC ID	A3LWCC941M	
Product Description	Wi-Fi/BT Transceiver	
Model name	WCC941M	
Variant Model name	-	
Operating Frequency	UNII 1	20 MHz_BW : 5 180 MHz – 5 240 MHz 40 MHz_BW : 5 190 MHz – 5 230 MHz 80 MHz_BW : 5 210 MHz
	UNII 2A	20 MHz_BW : 5 260 MHz – 5 320 MHz 40 MHz_BW : 5 270 MHz – 5 310 MHz 80 MHz_BW : 5 290 MHz
	UNII 2C	20 MHz_BW : 5 500 MHz – 5 720 MHz 40 MHz_BW : 5 510 MHz – 5 710 MHz 80 MHz_BW : 5 530 MHz – 5 690 MHz
	UNII 3	20 MHz_BW : 5 745 MHz – 5 825 MHz 40 MHz_BW : 5 755 MHz – 5 795 MHz 80 MHz_BW : 5 775 MHz
RF Output Power	802.11a : 20.22 dBm (105.20 mW) 802.11n_HT20 : 19.15 dBm (82.22 mW) 802.11n_HT40 : 19.57 dBm (90.57 mW) 802.11ac_VHT20 : 20.13 dBm (103.04 mW) 802.11ac_VHT40 : 19.54 dBm (89.95 mW) 802.11ac_VHT80 : 21.85 dBm (153.11 mW) 802.11ax_HE20 : 18.56 dBm (71.78 mW) 802.11ax_HE40 : 18.92 dBm (77.98 mW) 802.11ax_HE80 : 19.05 dBm (80.35 mW)	
Antenna Specification	Antenna type : Metal Antenna	
	UNII 1, UNII 2A	Peak Gain : 1.36 dBi (ANT L), 1.95 dBi (ANT R)
	UNII 2C, UNII 3	Peak Gain : 1.49 dBi (ANT L), 1.98 dBi (ANT R)
Antenna Configurations	802.11a : SISO(ANT L, ANT R) 802.11n : SISO(ANT L, ANT R), MIMO(ANT L+ANT R) 802.11ac : SISO(ANT L, ANT R), MIMO(ANT L+ANT R) 802.11ax : SISO(ANT L, ANT R), MIMO(ANT L+ANT R)	
Type of Modulation	802.11a/n/ac : OFDM 802.11ax : OFDMA	
Data Rate	802.11a : 54 / 48 / 36 / 24 / 18 / 12 / 9 / 6 Mbps 802.11n : up to 300 Mbps 802.11ac : up to 867 Mbps	



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	802.11ax : up to 1 200 Mbps
Power Source	DC 5 V
Hardware Rev	V2.1
Software Rev	FC 3
Dynamic Frequency Selection	Slave without radar detection

1.3 Peripheral Devices

Device	Manufacturer	Model No.	Serial No.
Note Computer	HP	15-bs563TU	CND7253R6N
AC/DC Adapter	HP	HSTNN-LA40	-
Note Computer	Samsung Electronics Co., Ltd.	NT751BBC	4LMA9FGNC00112B
AC/DC Adapter	Samsung Electronics Co., Ltd.	GST40A12	-
WLAN Access Point	ASUS	RT-AX88U	L61KHP000005
AC/DC Adapter	ASUS	ADP-65GD B	

1.4 Model Differences

Not applicable



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2. Accreditations

2.1 Laboratory Accreditations and Listings

Country	Agency	Registration Number
USA	FCC	805871
CANADA	ISED	8737A
KOREA	NRRA	KR0025

2.2 Calibration Details of Equipment Used for Measurement

Test equipment and test accessories are calibrated on regular basis. The maximum time between calibrations is one year or what is recommended by the manufacturer, whichever is less. All test equipment calibrations are traceable to the Korea Research Institute of Standards and Science (KRISS), therefore, all test data recorded in this report is traceable to KRISS.

3. Test Specifications

3.1 Summary of tests

Requirement(s)	Limit	Status (Note 1)	Test Condition
Channel Move Time	10 seconds	C	Conducted
Channel Closing Transmission Time	200ms + aggregate of 60ms over remaining 10 second period	C	
Client beacon test	Monitored for 10 minutes with no client transmission	C	
<p><i>Note 1:</i> C=Complies NC=Not Complies NT=Not Tested NA=Not Applicable</p>			
<p><i>Note 2:</i> The data in this test report are traceable to the national or international standards.</p>			
<p><i>Note 3:</i> The sample was tested according to the following specification: FCC Part 15.407, ANSI C63.10-2013</p>			
<p><i>Note 4:</i> The tests were performed according to the method of measurements prescribed in KDB No.905462.</p>			

3.2 Description of Dynamic Frequency Selection Test

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

Requirement	Operational Mode		
	Master	Client Without Radar Detection	Client With Radar Detection
<i>Non-Occupancy Period</i>	Yes	Not required	Yes
<i>DFS Detection Threshold</i>	Yes	Not required	Yes
<i>Channel Availability Check Time</i>	Yes	Not required	Not required
<i>U-NII Detection Bandwidth</i>	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
<i>DFS Detection Threshold</i>	Yes	Not required
<i>Channel Closing Transmission Time</i>	Yes	Yes
<i>Channel Move Time</i>	Yes	Yes
<i>U-NII Detection Bandwidth</i>	Yes	Not required

Additional requirements for devices with multiple bandwidth modes	Master Device or Client with Radar Detection	Client Without Radar Detection
<i>U-NII Detection Bandwidth and Statistical Performance Check</i>	All BW modes must be tested	Not required
<i>Channel Move Time and Channel Closing Transmission Time</i>	Test using widest BW mode available	Test using the widest BW mode available for the link
<i>All other tests</i>	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.		

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 \geq 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
<p>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. Note 3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.</p>	

Table 4: DFS Response Requirement Values

Parameter	Value
<i>Non-occupancy period</i>	Minimum 30 minutes
<i>Channel Availability Check Time</i>	60 seconds
<i>Channel Move Time</i>	10 seconds See Note 1.
<i>Channel Closing Transmission Time</i>	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
<i>U-NII Detection Bandwidth</i>	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.
<p>Note 1: <i>Channel Move Time</i> and the <i>Channel Closing Transmission Time</i> should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst. Note 2: The <i>Channel Closing Transmission Time</i> is comprised of 200 milliseconds starting at the beginning of the <i>Channel Move Time</i> plus any additional intermittent control signals required to facilitate a <i>Channel</i> 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 <i>U-NII Detection Bandwidth</i> 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.</p>	

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 $\left\{ \left(\frac{1}{360} \right) \cdot \left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \right\}$	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 5a - Pulse Repetition Intervals Values for Test A

Pulse Repetition Frequency Number	Pulse Repetition Frequency (Pulses Per Second)	Pulse Repetition Interval (Microseconds)
1	1930.5	518
2	1858.7	538
3	1792.1	558
4	1730.1	578
5	1672.2	598
6	1618.1	618
7	1567.4	638
8	1519.8	658
9	1474.9	678
10	1432.7	698
11	1392.8	718
12	1355	738
13	1319.3	758
14	1285.3	778
15	1253.1	798
16	1222.5	818
17	1193.3	838
18	1165.6	858
19	1139	878
20	1113.6	898
21	1089.3	918
22	1066.1	938
23	326.2	3066

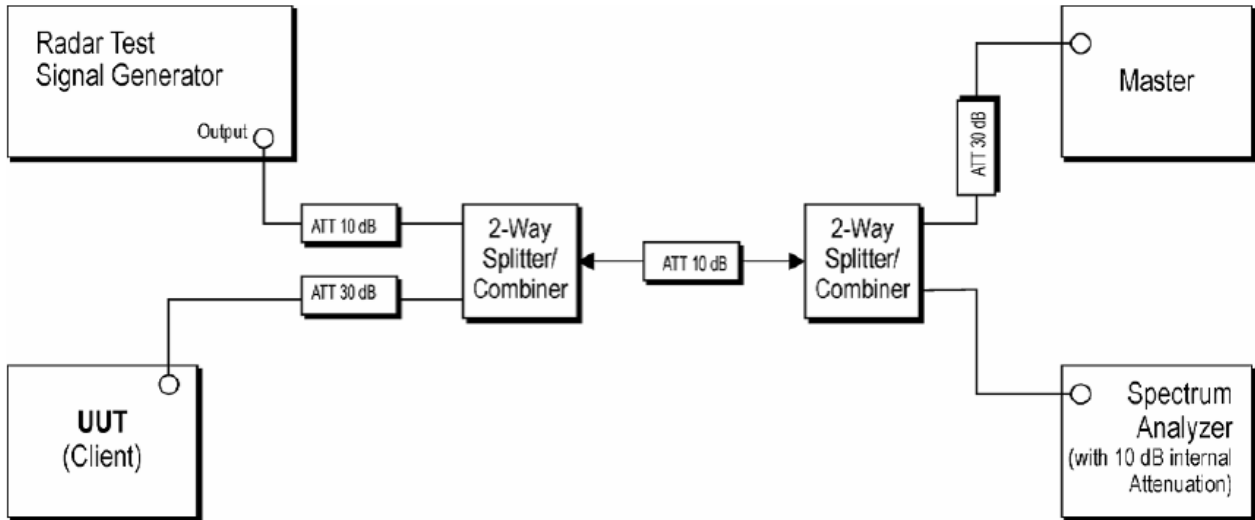
Table 6 – Long Pulse Radar Test Waveform

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

3.3 Measuring Systematic diagram



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3.4 Description of EUT

Overview Of EUT With Respect To §15.407 (H) Requirements

The EUT operates over the 5250-5350 MHz and 5470-5725 MHz range.
The EUT is a Client Device that does not have radar detection capability.
The Slave device associated with the EUT during these tests does not have radar detection capability.

All tests are conducted with Pulse Type 0.
A sample with temporary antenna connector was provided to perform the measurements in a conducted way.
Iperf was used to generate the required channel load (duty cycle greater than 17%).

The EUT utilizes the 802.11a/n/ac/ax architecture, with a nominal channel bandwidth of 20/40/80 MHz.
The Master Device is a ASUS RT-AX88U 802.11a/b/g/n/ac/ax WLAN Access Point,
FCC ID: MSQ-RTAXHP00
Threshold level is lower than the required level hence it provides margin to the limit.



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3.5 Test Results

3.5.1 Test Channel

All test were performed at a channel center frequency of 5500 MHz for 20 MHz Bandwidth.
All test were performed at a channel center frequency of 5510 MHz for 40 MHz Bandwidth.
All test were performed at a channel center frequency of 5530 MHz for 80 MHz Bandwidth.

3.5.2 Radar waveform, Traffic and Dwell time per bin

Radar Waveform

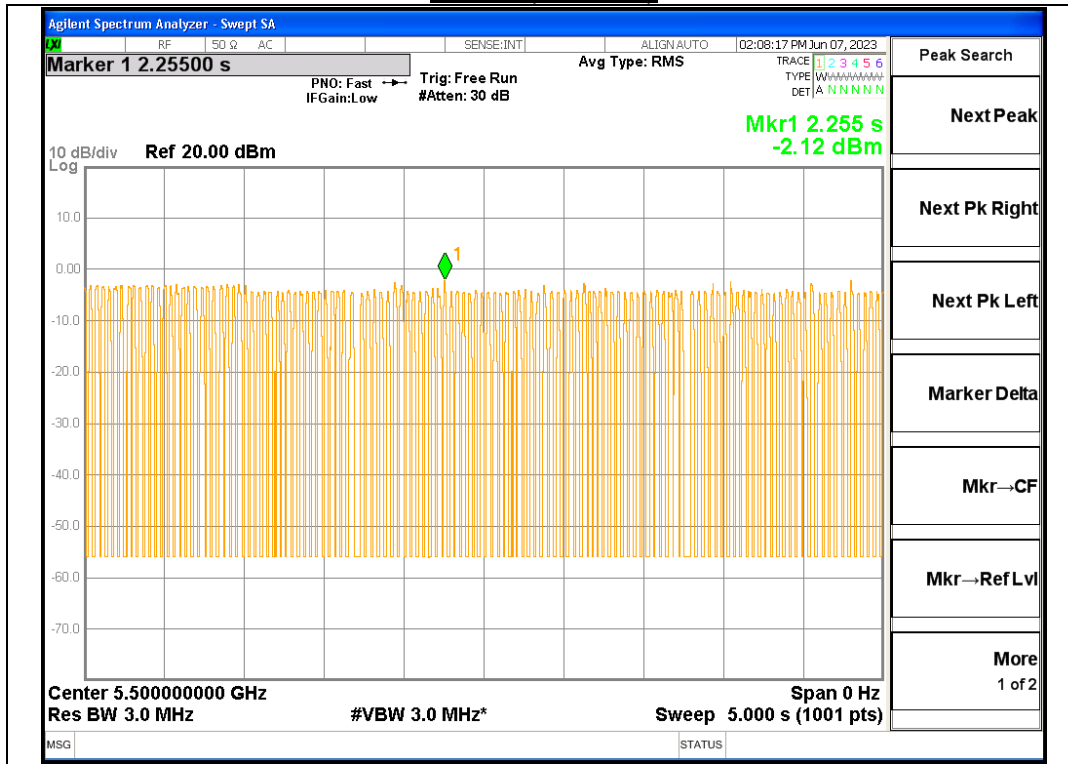




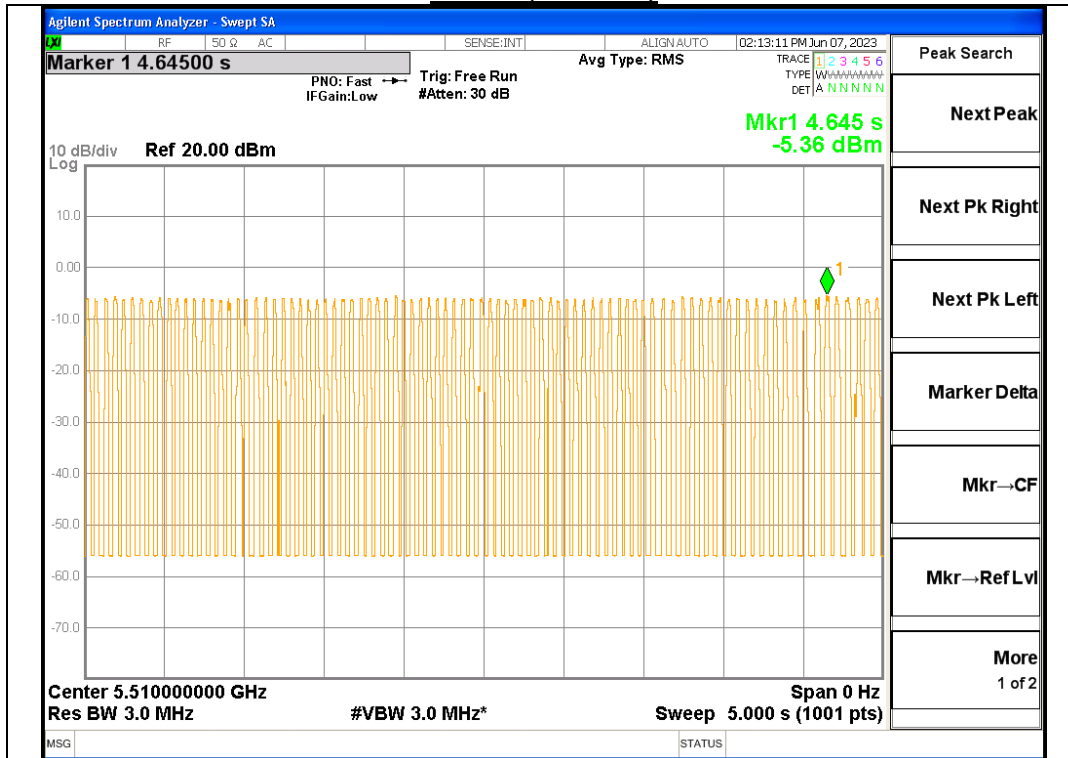
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Traffic (20 MHz)



Traffic (40 MHz)

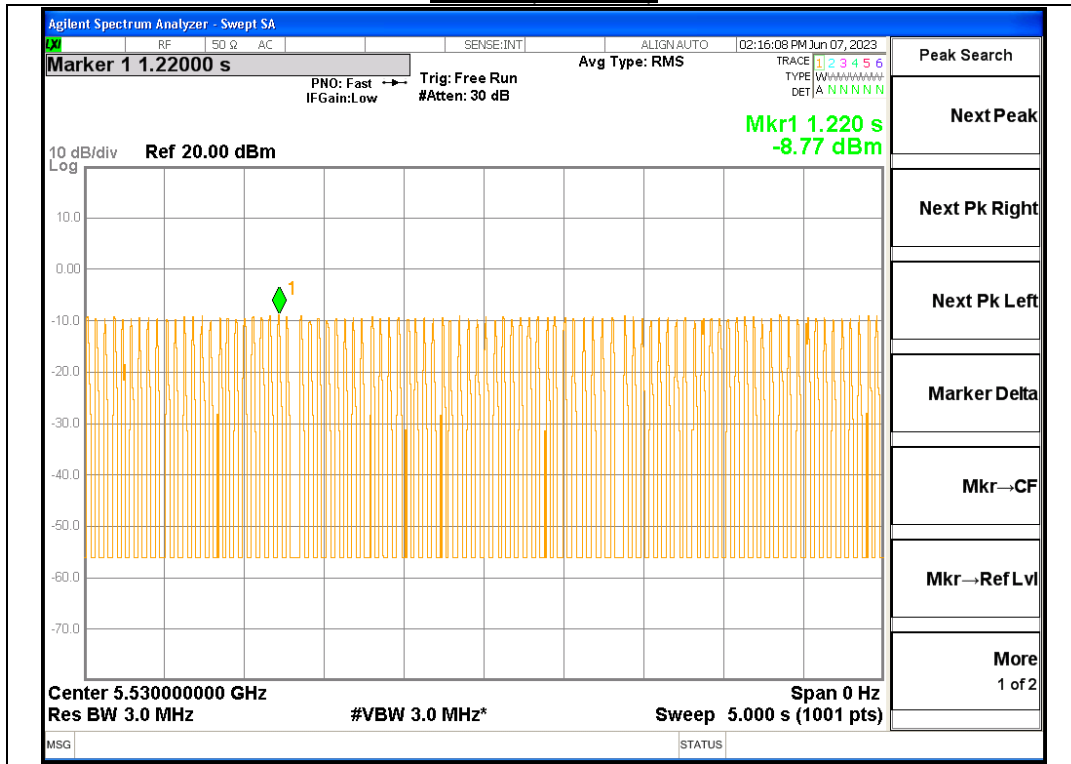




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Traffic (80 MHz)

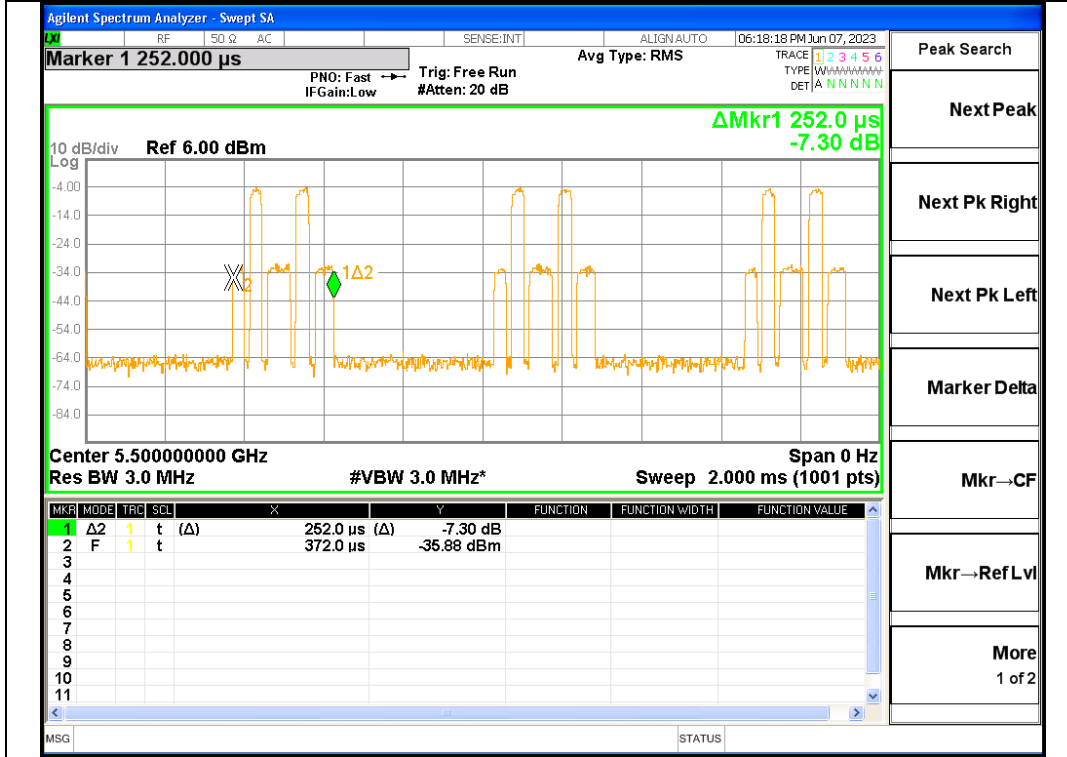




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Dwell time per bin (20 MHz)



Dwell time per bin (40 MHz)

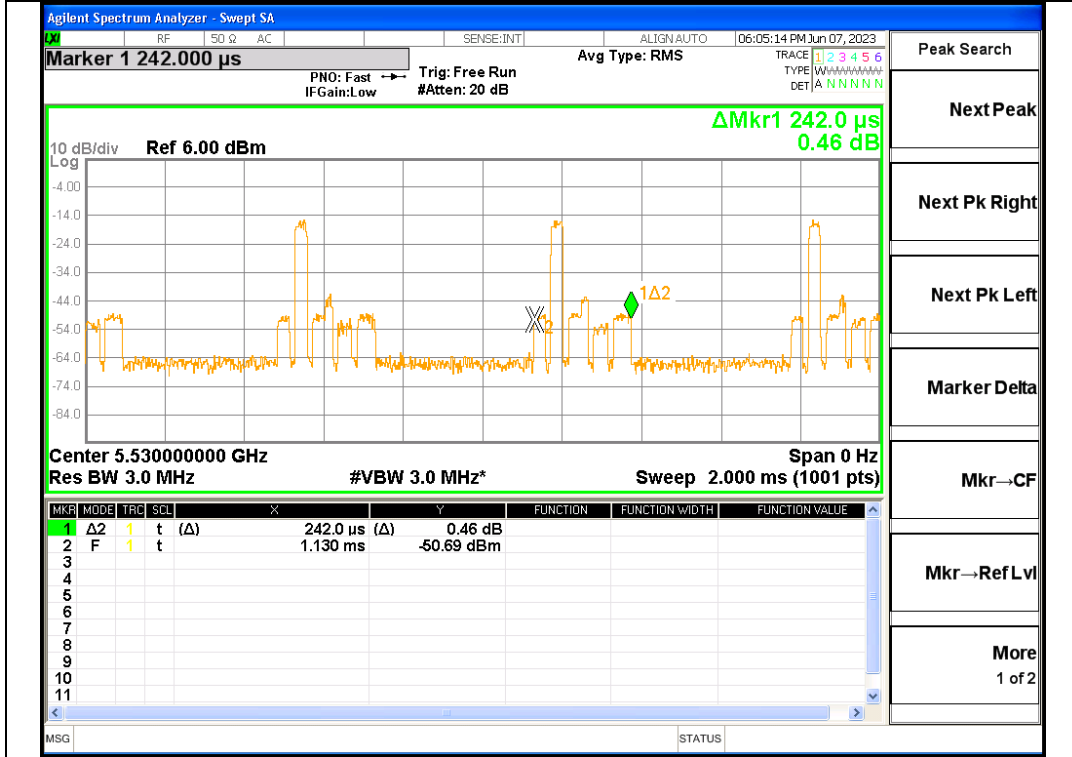





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Dwell time per bin (80 MHz)



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3.5.3 Channel move time and Channel closing Transmission time

REPORTING NOTES

The reference marker is set at the end of last radar pulse.
The delta marker is set at the end of the last WLAN transmission following the radar pulse.
This delta is the channel move time.

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time =
(Number of analyzer bins showing transmission) * (dwell time per bin)

The observation period over which the aggregate time is calculated Begins at
(Reference Marker + 200 msec) and Ends no earlier than (Reference Marker + 10 sec).



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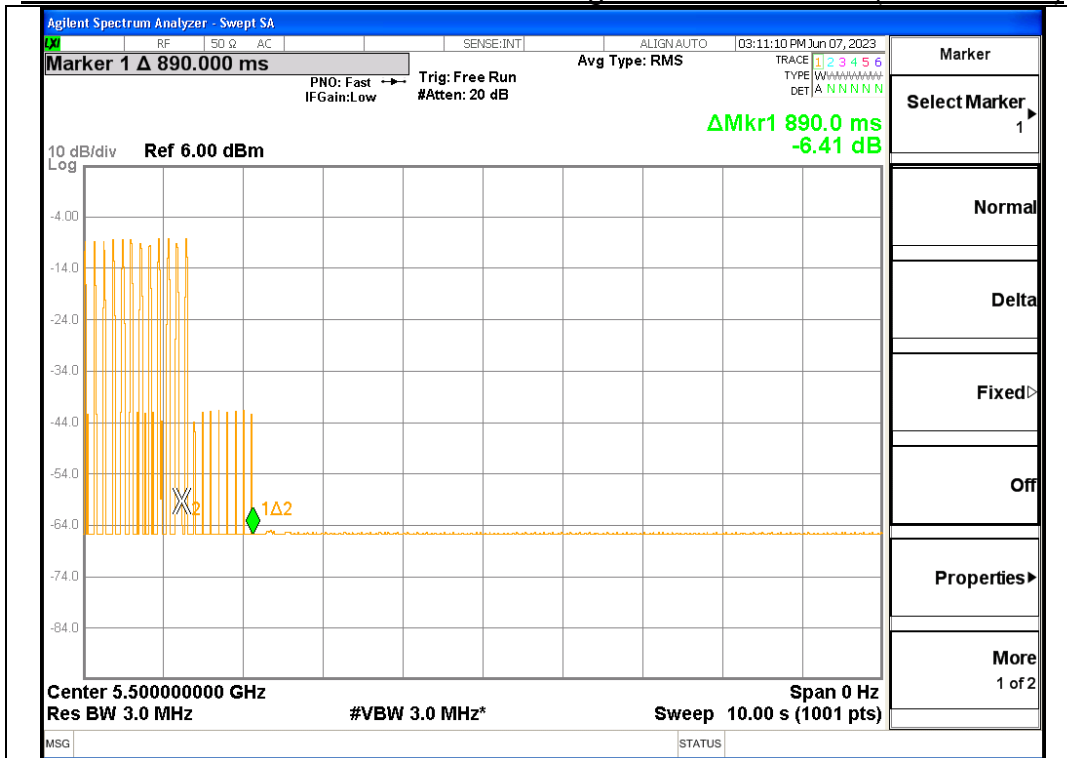
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Test Results

<Bandwidth 20 MHz Mode>

Channel Move Time (sec)	Limit (sec)
0.89	10
Channel Closing Transmission Time (msec)	Limit (msec)
2.25	260

Channel Move Time and Channel closing Transmission time(20 MHz BW)



Channel Closing Transmission Time calculated	Test results
Sampling bins	9
Dwell time per bin (msec)	0.25
Closing Transmission Time (msec)	2.25



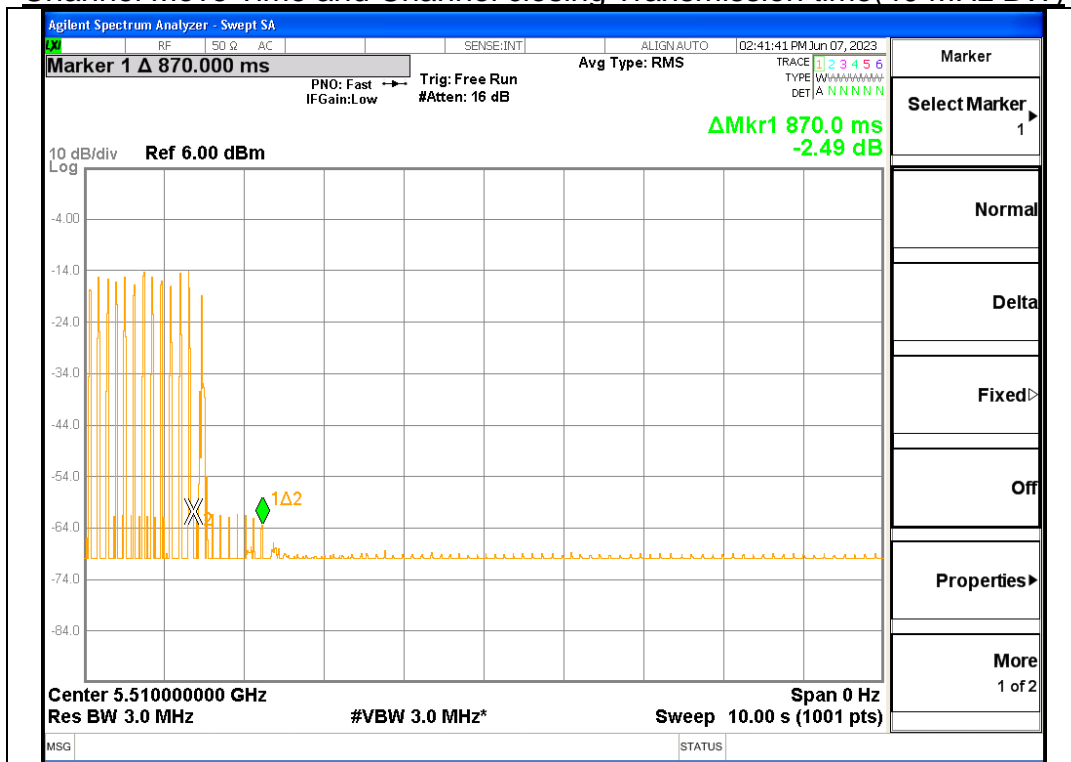
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<Bandwidth 40 MHz Mode>

Channel Move Time (sec)	Limit (sec)
0.87	10
Channel Closing Transmission Time (msec)	Limit (msec)
2.00	260

Channel Move Time and Channel closing Transmission time(40 MHz BW)



Channel Closing Transmission Time calculated	Test results
Sampling bins	8
Dwell time per bin (msec)	0.25
Closing Transmission Time (msec)	2.00



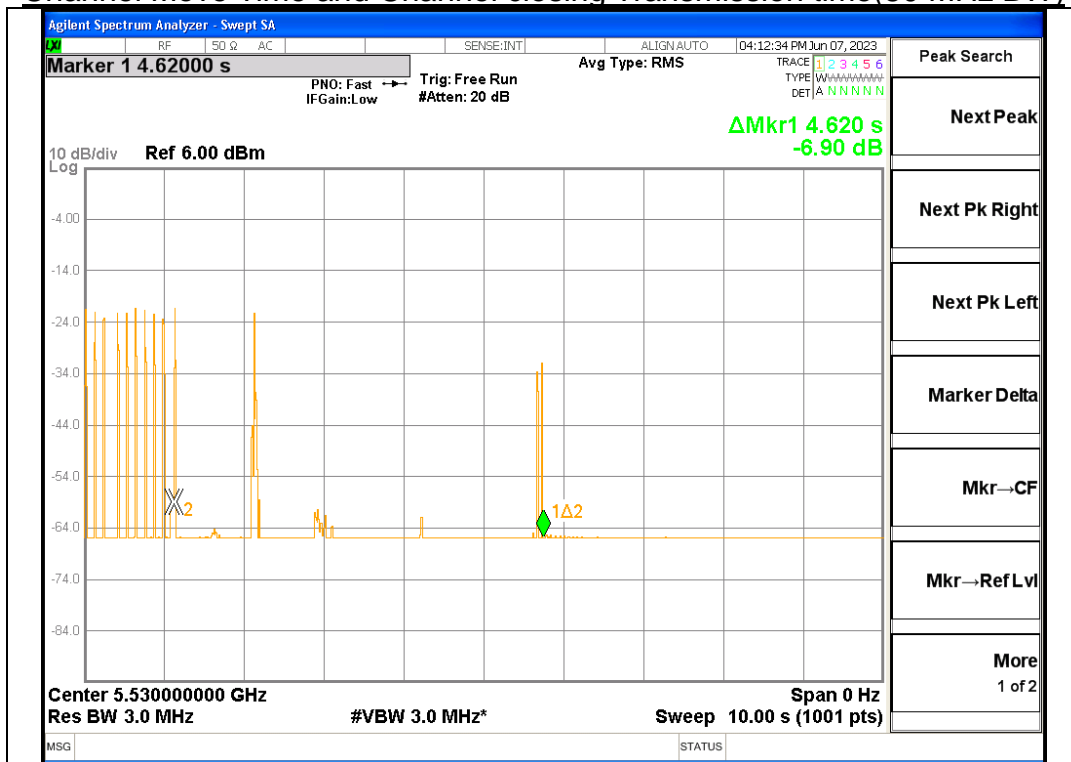
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<Bandwidth 80 MHz Mode>

Channel Move Time (sec)	Limit (sec)
4.62	10
Channel Closing Transmission Time (msec)	Limit (msec)
1.44	260

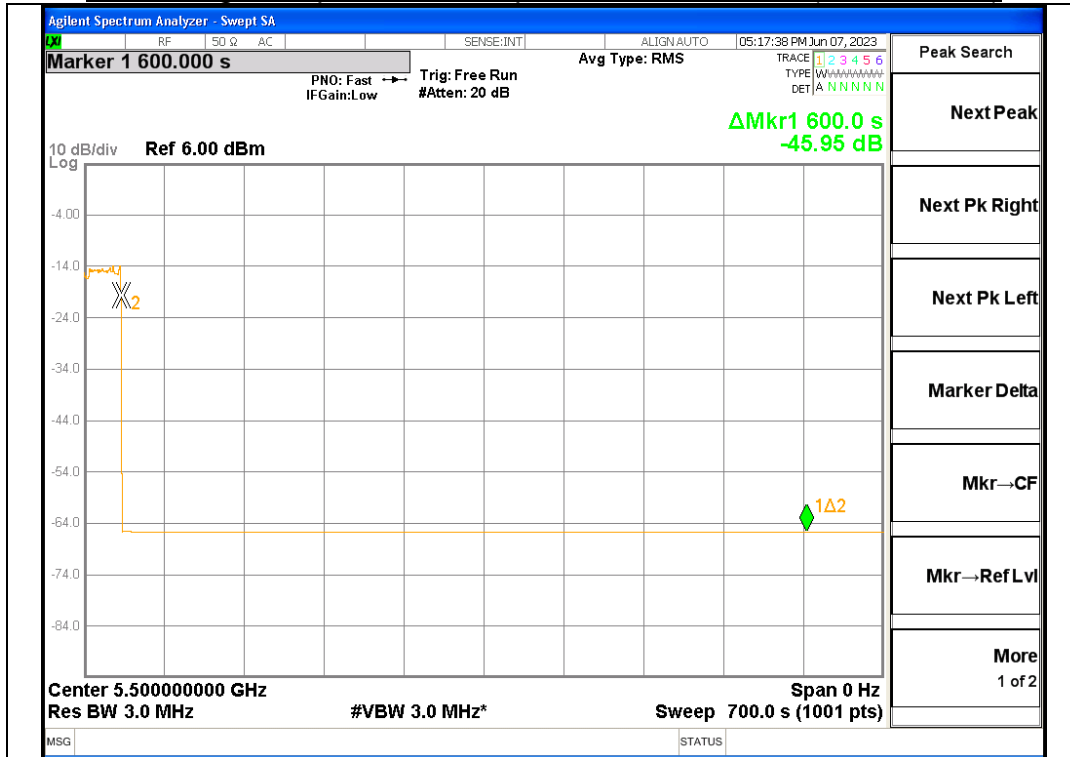
Channel Move Time and Channel closing Transmission time(80 MHz BW)



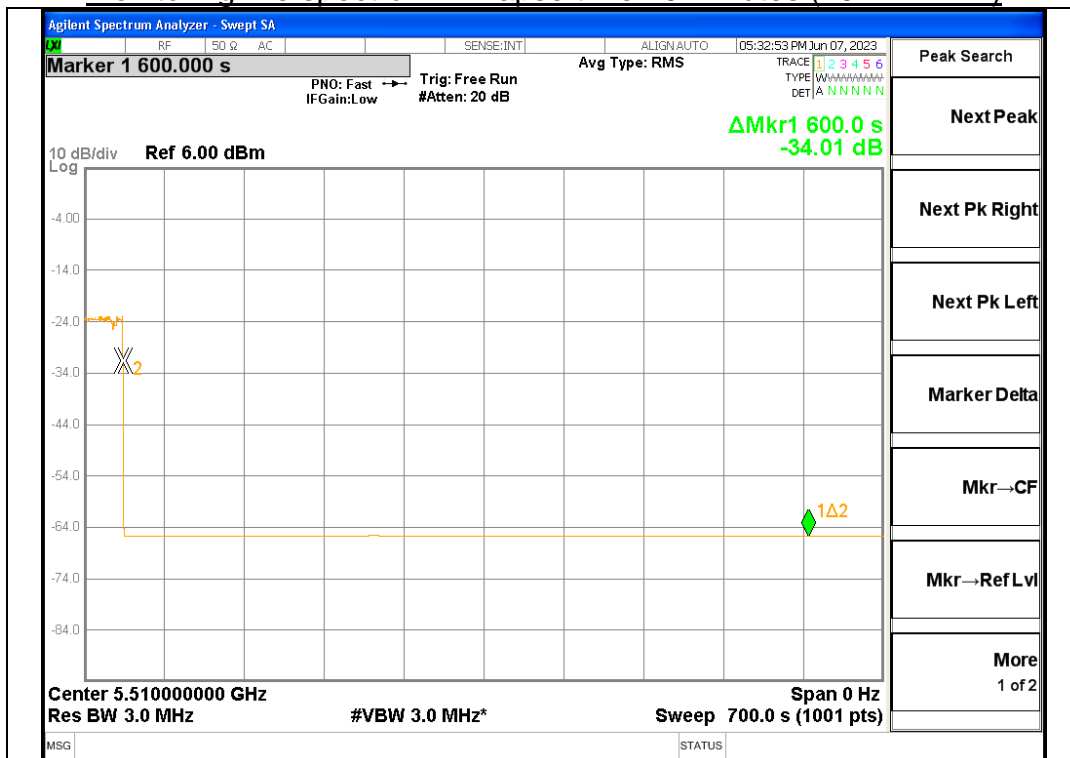
Channel Closing Transmission Time calculated	Test results
Sampling bins	6
Dwell time per bin (msec)	0.24
Closing Transmission Time (msec)	1.44

3.5.4 Client beacon test

Monitoring live spectrum – Elapse time 10 minutes (20 MHz BW)



Monitoring live spectrum – Elapse time 10 minutes (40 MHz BW)

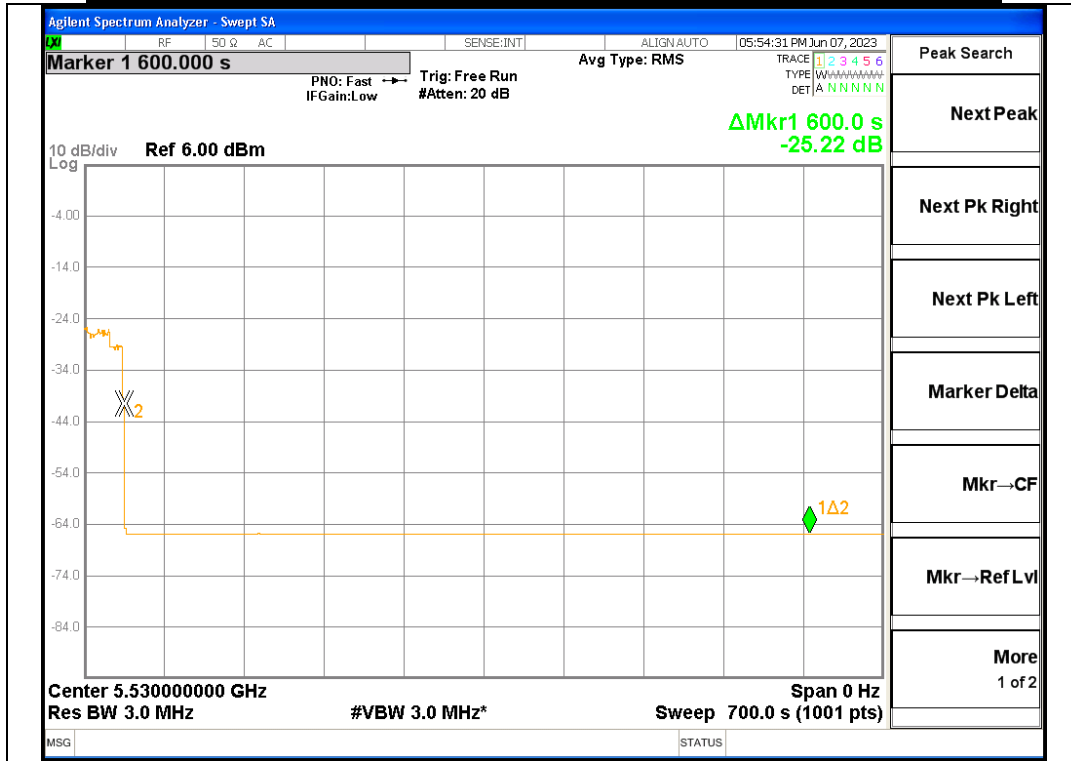




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Monitoring live spectrum – Elapse time 10 minutes (80 MHz BW)





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APPENDIX A – Test Equipment Used For Tests

	Name of Equipment	Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date
1	Signal Analyzer	Agilent	N9020A	MY48011598	2022-10-07	2023-10-07
2	VECTOR SIGNAL GENERATOR	Rohde & Schwarz	SMBV100A	258008	2023-01-03	2024-01-03
3	COAXIAL STEP ATTENUATOR	HP	8494B	3308A31418	2023-03-23	2024-03-23
4	COAXIAL STEP ATTENUATOR	HP	8496B	3308A70904	2023-03-23	2024-03-23
5	Combiner/Divider	Weinschel	1594	717	2022-10-13	2023-10-13

	Cable	Manufacturer	Model No.	Serial No.	Check Date
1	RF Cable	Junkosha Inc.	MWX221	2008S256	2023-06-07
2	RF Cable	Junkosha Inc.	MWX221	1512S127	2023-06-07
3	RF Cable	Junkosha Inc.	MWX221-NMSAMS	J0970753	2023-06-07
4	RF Cable	Junkosha Inc.	MWX221	J12J102248-00-2	2023-06-07
5	RF Cable	Junkosha Inc.	MWX221	J12J102248-00-5	2023-06-07

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