



Test report No.: 2330792R-RFUSV01S-A

TEST REPORT

Product Name	Hybrid Instant Camera
Trademark	Leica
Model and /or type reference	8262
FCC ID	N5A8262
Applicant's name / address	Leica Camera AG Am Leitz-Park 5, 35578 Wetzlar, Germany
Manufacturer's name	ABILITY ENTERPRISE CO., LTD.
Test method requested, standard	FCC CFR Title 47 Part 15 Subpart C ANSI C63.4: 2014, ANSI C63.10: 2013
Verdict Summary	IN COMPLIANCE
Documented By (Senior Project Specialist / Genie Chang)	Genie Chang
Tested By (Senior Engineer / Bill Lin)	Bill Lin
Approved By (Senior Engineer / Jack Hsu)	Jack Hsu
Date of Receipt	2023/03/22
Date of Issue	2023/05/09
Report Version	V1.0

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Appendix 1: EUT Test Photographs

Appendix 2: Product Photos-Please refer to the file: 2330792R-Product Photos

Revision History

Report No.	Version	Description	Issued Date
2330792R-RFUSV01S-A	V1.0	Initial issue of report.	2023/05/09

1. General Information

1.1. EUT Description

Product Name	Hybrid Instant Camera
Trademark	Leica
Model and /or type reference	8262
EUT Rated Voltage	DC 5V (Power by USB) or DC 3.7V (Power by Battery)
EUT Test Voltage	DC 5V (Power by USB)
Frequency Range	2402-2480 MHz
Channel Number	79 CH
Type of Modulation	GFSK(1 Mbps) / π / 4DQPSK(2 Mbps) / 8DPSK(3 Mbps)
Channel Control	Auto
Type C to USB Cable	Shielded, 0.3m
Battery	Trade Name: EVE, M/N: P0933-LF

Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	ABILITY ENTERPRISE CO., LTD.	KC36A02	PCB	2.3 dBi for 2400 MHz

Note: The antenna of EUT conforms to FCC 15.203.

Center Frequency of Each Channel:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	01	2403	02	2404	03	2405
04	2406	05	2407	06	2408	07	2409
08	2410	09	2411	10	2412	11	2413
12	2414	13	2415	14	2416	15	2417
16	2418	17	2419	18	2420	19	2421
20	2422	21	2423	22	2424	23	2425
24	2426	25	2427	26	2428	27	2429
28	2430	29	2431	30	2432	31	2433
32	2434	33	2435	34	2436	35	2437
36	2438	37	2439	38	2440	39	2441
40	2442	41	2443	42	2444	43	2445
44	2446	45	2447	46	2448	47	2449
48	2450	49	2451	50	2452	51	2453
52	2454	53	2455	54	2456	55	2457
56	2458	57	2459	58	2460	59	2461
60	2462	61	2463	62	2464	63	2465
64	2466	65	2467	66	2468	67	2469
68	2470	69	2471	70	2472	71	2473
72	2474	73	2475	74	2476	75	2477
76	2478	77	2479	78	2480	--	--

Note:

1. The EUT is a Hybrid Instant Camera with built-in Bluetooth transceiver.
2. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.
3. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test
4. DEKRA has evaluated each test mode. Only the worst case is shown in the report.
5. These tests were conducted on a sample for the purpose of demonstrating compliance of transmitter with Part 15 Subpart C Paragraph 15.247 for spread spectrum devices.
6. The test mode is based on the Bluetooth technology, while testing 1Mbps, 2Mbps and 3Mbps, the worst case is 1Mbps and 3Mbps, and only worse case data is recorded in this report.

Test Mode	Mode 1	Transmit-1 Mbps
		Transmit-3 Mbps

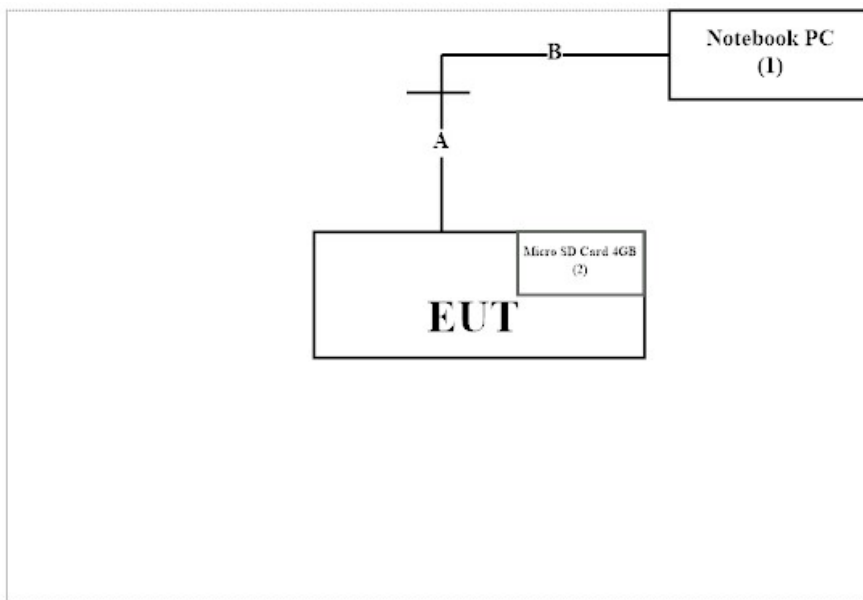
1.2. Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product	Manufacturer	Model No.	Serial No.	Power Cord
1 Notebook PC	DELL	Latitude E5440	FS9TK32	N/A
2 Micro SD Card 4GB	SanDisk	SanDisk 4GB	N/A	N/A

Cable Type	Cable Description
A USB to type C Cable	Shielded, 0.3m
B USB extension Cable	Shielded, 1m

1.3. Configuration of Tested System



1.4. EUT Exercise Software

1.	Setup the EUT as shown in Section 1.3.
2.	Execute software “Vendor Command Tool Ver.01.06.20181227.od” on the Notebook PC.
3.	Configure the test mode, the test channel, and the data rate.
4.	Press “OK” to start the continuous transmit.
5.	Verify that the EUT works properly.

1.5. Test Facility

Ambient conditions in the laboratory:

Performed Item	Items	Required	Actual
Conducted Emission	Temperature (°C)	10~40 °C	24.9 °C
	Humidity (%RH)	10~90 %	53.5 %
Radiated Emission	Temperature (°C)	10~40 °C	22.9 °C
	Humidity (%RH)	10~90 %	67.9 %
Conductive	Temperature (°C)	10~40 °C	22.0 °C
	Humidity (%RH)	10~90 %	55.0 %

USA	FCC Registration Number: TW0033
Canada	CAB Identifier Number: TW3023 / Company Number: 26930

Site Description	Accredited by TAF
	Accredited Number: 3023

Test Laboratory	DEKRA Testing and Certification Co., Ltd.
	Linkou Laboratory
Address	No.5-22, Ruishukeng Linkou District, New Taipei City, 24451, Taiwan, R.O.C.
Performed Location	No. 26, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan, R.O.C.
Phone Number	+886-3-275-7255
Fax Number	+886-3-327-8031

1.6. List of Test Equipment

For Conduction Measurements / HY-SR01

	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
V	EMI Test Receiver	R&S	ESR7	101601	2022/06/23	2023/06/22
V	Two-Line V-Network	R&S	ENV216	101306	2023/03/16	2024/03/15
V	Two-Line V-Network	R&S	ENV216	101307	2022/07/04	2023/07/03
V	Coaxial Cable	SUHNER	RG400_BNC	RF001	2022/05/24	2023/05/23

Note:

1. All equipments are calibrated every one year.
2. The test instruments marked with “V” are used to measure the final test results.
3. Test Software Version: e3 210616 dekra V9.

For Conducted Measurements / HY-SR02

	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
V	Spectrum Analyzer	R&S	FSV30	103466	2022/12/22	2023/12/21
V	Peak Power Analyzer	KEYSIGHT	8990B	MY51000539	2022/05/27	2023/05/26
V	Power Sensor	KEYSIGHT	N1923A	MY59240002	2022/05/19	2023/05/18
V	Power Sensor	KEYSIGHT	N1923A	MY59240003	2022/05/19	2023/05/18

Note:

1. All equipments are calibrated every one year.
2. The test instruments marked with “V” are used to measure the final test results.
3. Test Software Version: RF Conducted Test Tools R3 V3.0.1.14.

For Radiated Measurements / HY-CB03

	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
	Loop Antenna	AMETEK	HLA6121	56736	2022/05/14	2023/05/13
V	Bi-Log Antenna	SCHWARZBECK	VULB9168	9168-0675	2021/08/11	2023/08/10
V	Horn Antenna	RF SPIN	DRH18-E	210802A18ES	2023/03/23	2024/03/22
V	Horn Antenna	Com-Power	AH-840	101101	2021/11/30	2023/11/29
V	Pre-Amplifier	SGH	0301	20211007-7	2023/01/10	2024/01/09
V	Pre-Amplifier	EMCI	EMC051845SE	980632	2023/01/10	2024/01/09
	Pre-Amplifier	EMCI	EMC05820SE	980361	2023/01/10	2024/01/09
V	Pre-Amplifier	EMCI	EMC184045SE	980369	2023/01/10	2024/01/09
	Coaxial Cable	EMCI	EMC102-KM-K M-600	1160314		
	Coaxial Cable	EMCI	EMC102-KM-K M-7000	170242		
V	Filter	MICRO TRONICS	BRM50702	G251	2023/01/05	2024/01/04
	Filter	MICRO TRONICS	BRM50716	067	2023/01/05	2024/01/04
V	EMI Test Receiver	R&S	ESR3	102792	2022/12/29	2023/12/28
V	Spectrum Analyzer	R&S	FSV3044	101115	2023/01/06	2024/01/05
V	Coaxial Cable	SUHNER	SUCOFLEX 106	25450/6	2023/01/10	2024/01/09
	Coaxial Cable	SGH	HA800	GD20110222-8		
	Coaxial Cable	SGH	SGH18	2021003-8		
	Coaxial Cable	EMCI	EMC106	151113		

Note:

1. Bi-Log Antenna and Horn Antenna(AH-840) is calibrated every two years, the other equipments are calibrated every one year.
2. The test instruments marked with “V” are used to measure the final test results.
3. Test Software Version: e3 210616 dekra V9.

1.7. Uncertainty

Uncertainties have been calculated according to the DEKRA internal document.

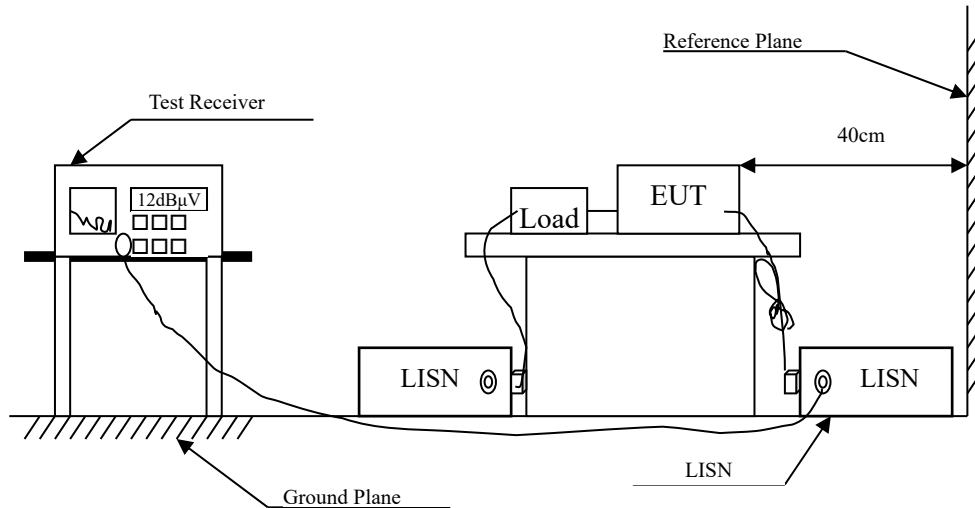
The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

Test Item	Uncertainty
Conducted Emission	± 3.50 dB
Peak Power Output	Spectrum Analyzer: ± 2.14 dB Power Meter: ± 1.05 dB
Radiated Emission	9 kHz~30 MHz: ± 3.88 dB 30 MHz~1 GHz: ± 4.42 dB 1 GHz~18 GHz: ± 4.28 dB 18 GHz~40 GHz: ± 3.90 dB
RF Antenna Conducted Test	± 2.14 dB
Band Edge	9 kHz~30 MHz: ± 3.88 dB 30 MHz~1 GHz: ± 4.42 dB 1 GHz~18 GHz: ± 4.28 dB 18 GHz~40 GHz: ± 3.90 dB
Channel Number	N/A
Channel Separation	± 1580.61 Hz
Dwell Time	± 0.53 %
Occupied Bandwidth	± 1580.61 Hz
Duty Cycle	± 0.53 %

2. Conducted Emission

2.1. Test Setup



2.2. Limits

FCC Part 15 Subpart C Paragraph 15.207 (dB μ V) Limit		
Frequency MHz	Limits	
	QP	AV
0.15 - 0.50	66-56	56-46
0.50 - 5.0	56	46
5.0 - 30	60	50

Remarks: In the above table, the tighter limit applies at the band edges.

2.3. Test Procedure

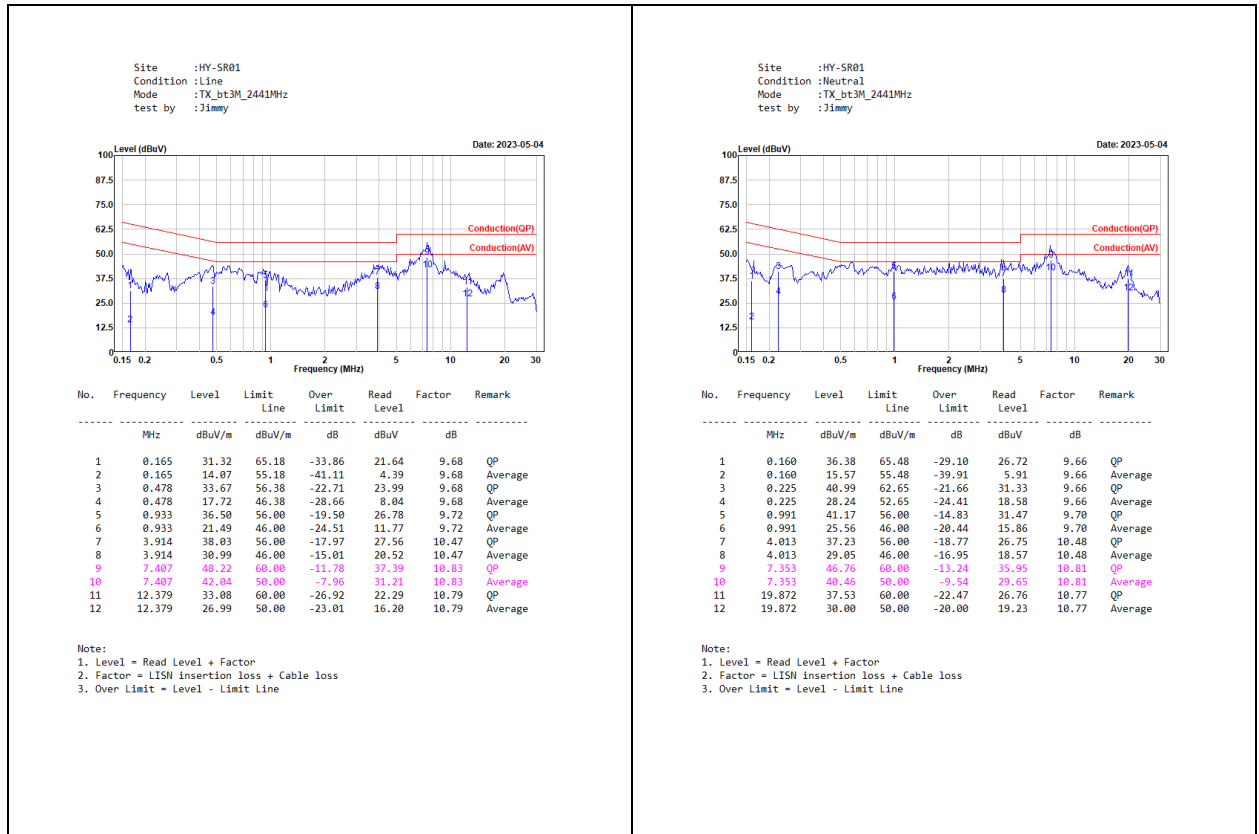
The EUT and Peripherals are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm /50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all the interface cables must be changed according to ANSI C63.4: 2014 on conducted measurement.

Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

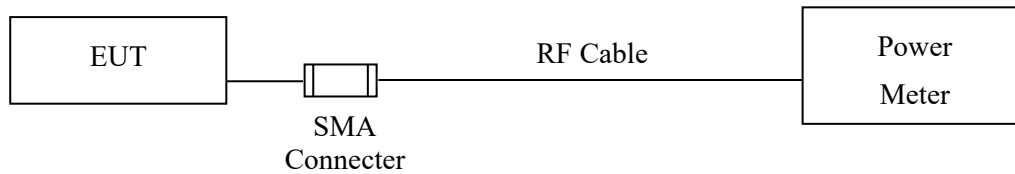
The EUT setup and the test procedure are according to ANSI C63.4, 2014 to comply with the requirements of FCC 47CFR Subpart C.

2.4. Test Result of Conducted Emission



3. Peak Power Output

3.1. Test Setup



3.2. Limit

The maximum peak power shall be less 1 Watt.

3.3. Test Procedure

Tested according to FHSS test procedure of KDB 558074 section 9 (b for compliance to FCC 47CFR 15.247 requirements.

3.4. Test Result of Peak Power Output

Product : Hybrid Instant Camera
Test Item : Peak Power Output
Test Mode : Transmit-1 Mbps
Test Date : 2023/04/18

Channel No.	Frequency (MHz)	Measurement (dBm)	Required Limit	Result
00	2402	4.36	1 Watt= 30 dBm	Pass
39	2441	4.78	1 Watt= 30 dBm	Pass
78	2480	4.79	1 Watt= 30 dBm	Pass

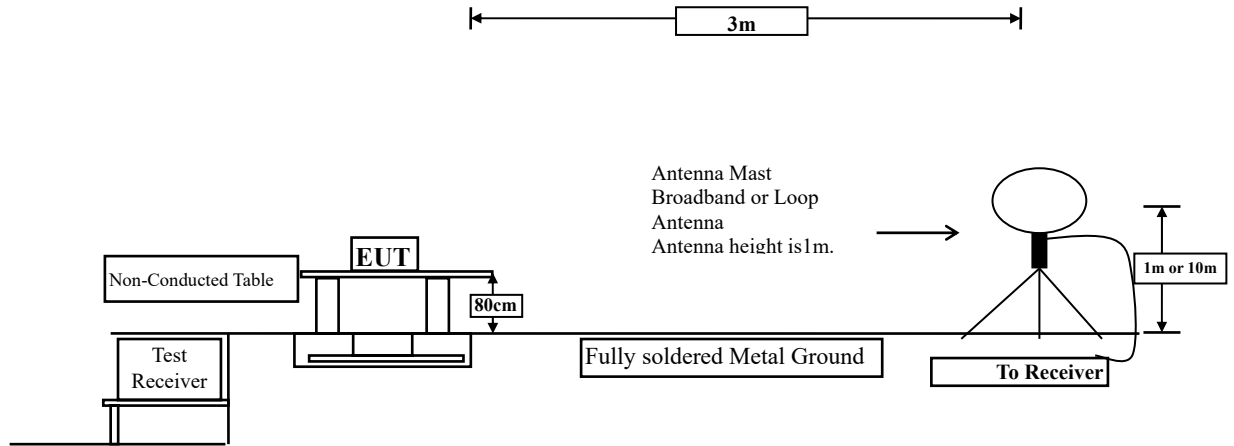
Product : Hybrid Instant Camera
Test Item : Peak Power Output
Test Mode : Transmit-3 Mbps
Test Date : 2023/04/18

Channel No.	Frequency (MHz)	Measurement (dBm)	Required Limit	Result
00	2402	5.61	1 Watt= 30 dBm	Pass
39	2441	5.98	1 Watt= 30 dBm	Pass
78	2480	6.06	1 Watt= 30 dBm	Pass

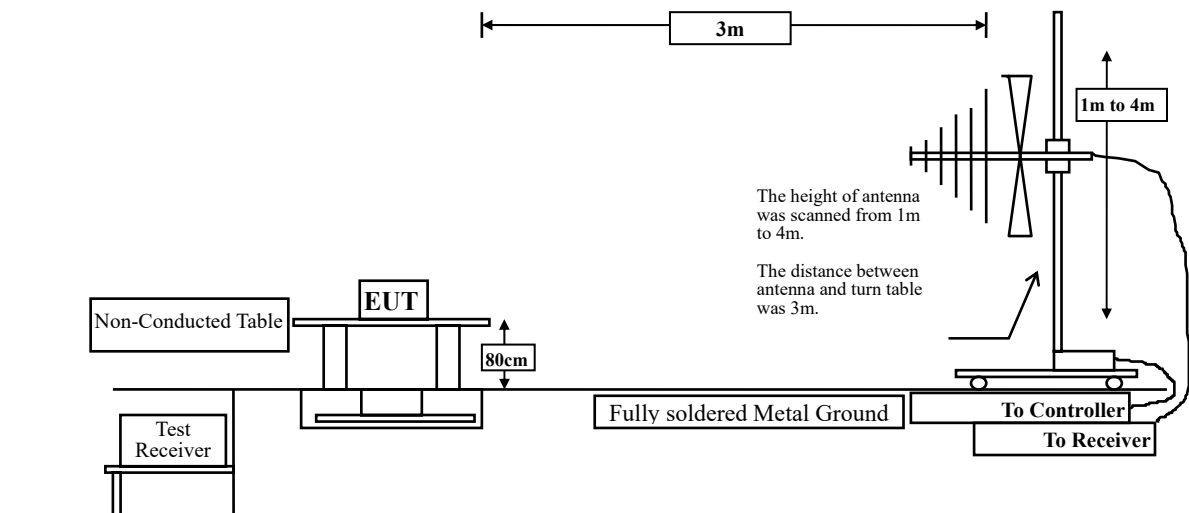
4. Radiated Emission

4.1. Test Setup

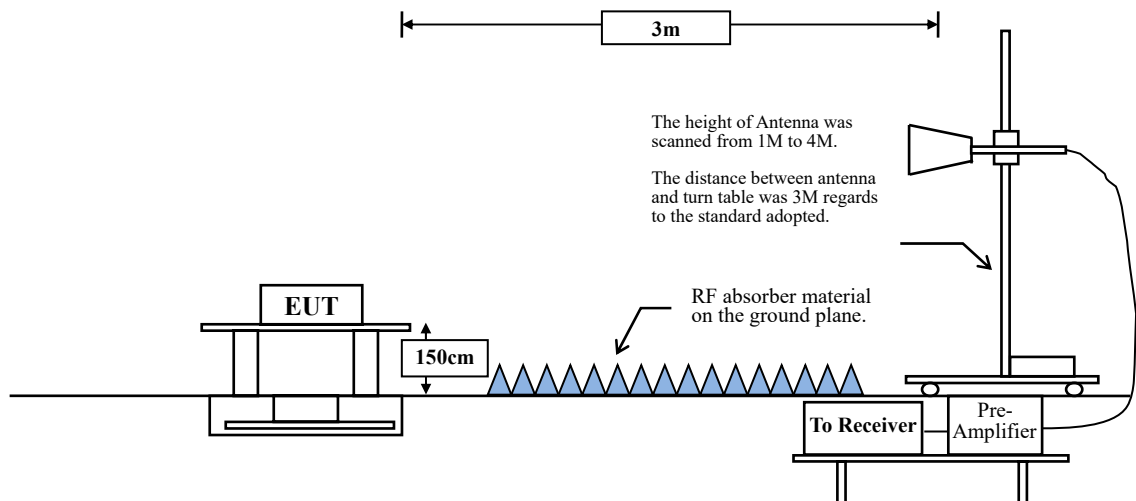
Radiated Emission Under 30 MHz



Radiated Emission Below 1 GHz



Radiated Emission Above 1 GHz



4.2. Limits

➤ General Radiated Emission Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

FCC Part 15 Subpart C Paragraph 15.209 Limits		
Frequency MHz	Field strength (microvolts/meter)	Measurement distance (meter)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remarks:

1. RF Voltage (dBμV) = 20 log RF Voltage (μV)
2. In the Above Table, the tighter limit applies at the band edges.
3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

4.3. Test Procedure

The EUT was setup according to ANSI C63.10, 2013 and tested compliance to FCC 47CFR 15.247 requirements.

Measuring the frequency range below 1 GHz, the EUT is placed on a turn table which is 0.8 meter above ground, when measuring the frequency range above 1GHz, the EUT is placed on a turn table which is 1.5 meter above ground.

The turn table is rotated 360 degrees to determine the position of the maximum emission level.

The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna is scanned between 1 meter and 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10: 2013 on radiated measurement.

The resolution bandwidth below 30 MHz setting on the field strength meter is 9kHz and 30 MHz~1 GHz is 120 kHz and above 1 GHz is 1 MHz.

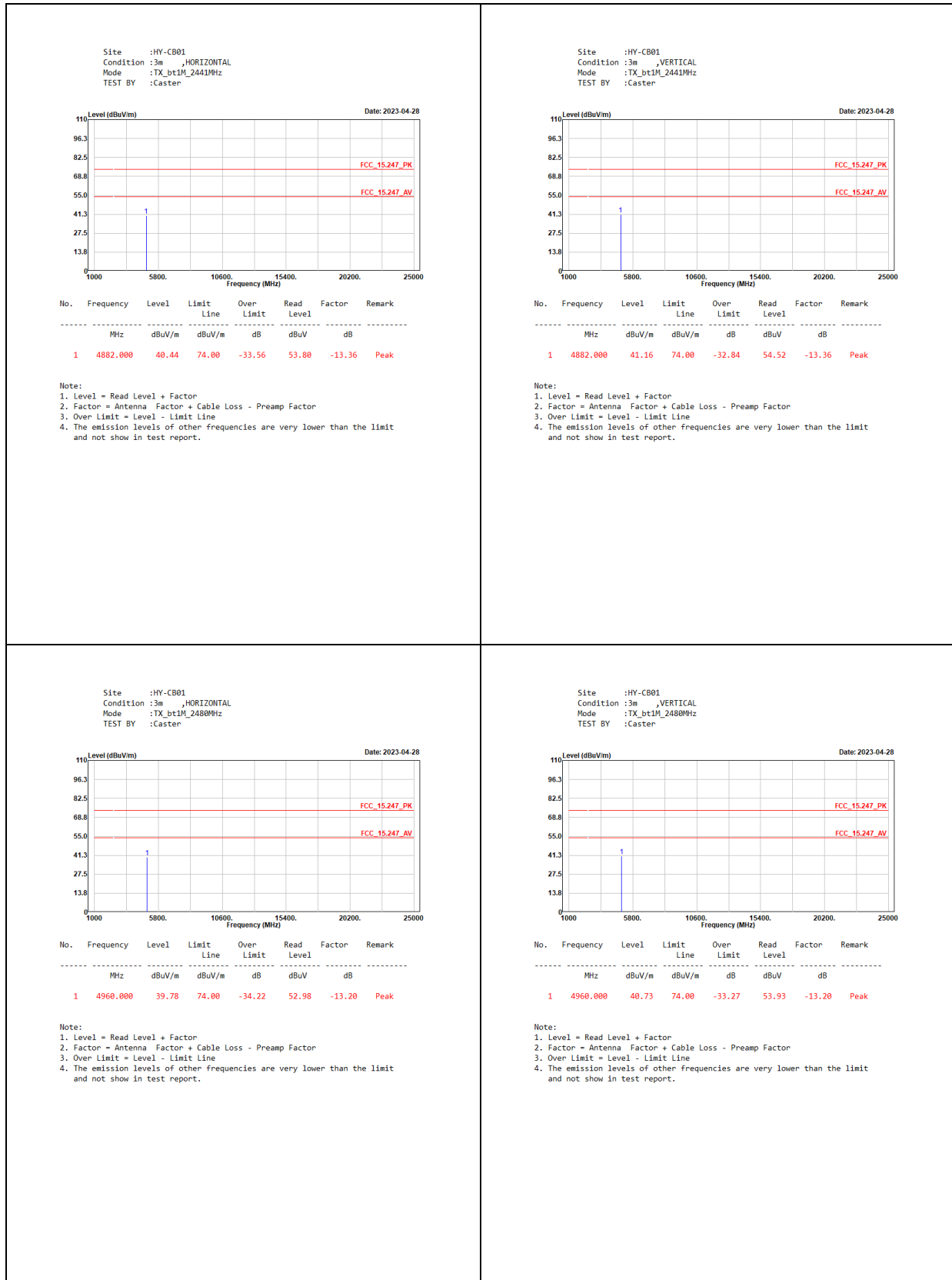
Radiated emission measurements below 30 MHz are made using Loop Antenna and 30 MHz~1 GHz are made using broadband Bilog antenna and above 1 GHz are made using Horn Antennas.

The measurement is divided into the Preliminary Measurement and the Final Measurement.

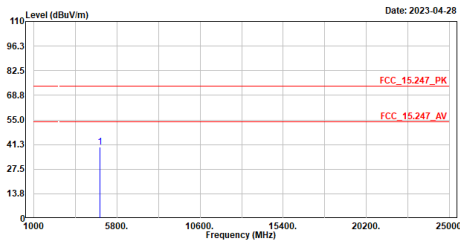
The suspected frequencies are searched for in Preliminary Measurement with the measurement antenna kept pointed at the source of the emission both in azimuth and elevation, with the polarization of the antenna oriented for maximum response. The antenna is pointed at an angle towards the source of the emission, and the EUT is rotated in both height and polarization to maximize the measured emission. The emission is kept within the illumination area of the 3 dB bandwidth of the antenna.

The measurement frequency range form 9 kHz - 10th Harmonic of fundamental was investigated.

4.4. Test Result of Radiated Emission



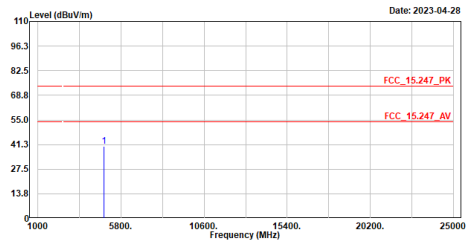
Site :HY-CB01
Condition :3m ,HORIZONTAL
Mode :TX_bt3M_2402MHz
TEST BY :Caster



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	4804.000	39.73	74.00	-34.27	53.28	-13.55	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

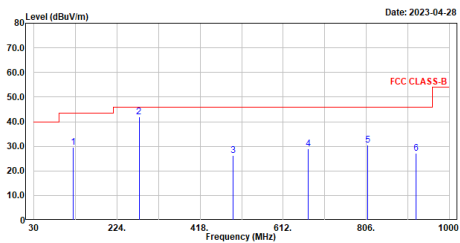
Site :HY-CB01
Condition :3m ,VERTICAL
Mode :TX_bt3M_2402MHz
TEST BY :Caster



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	4804.000	40.34	74.00	-33.66	53.89	-13.55	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

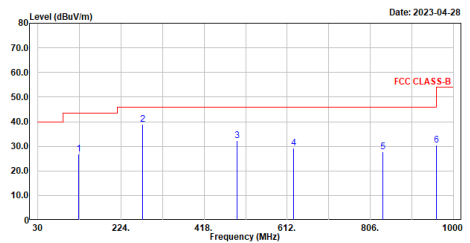
Site :HY-CB01
Condition :3m ,HORIZONTAL
Mode :TX_bt3M_2441MHz
TEST BY :Sam



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	121.180	29.46	43.50	-14.04	55.32	-25.86	QP
2	275.410	41.98	46.00	-4.02	66.01	-24.03	QP
3	494.630	26.21	46.00	-19.79	44.65	-18.44	QP
4	670.200	29.02	46.00	-16.98	44.02	-15.00	QP
5	809.880	30.47	46.00	-15.53	43.44	-12.97	QP
6	921.430	27.28	46.00	-18.72	38.96	-11.68	QP

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission under 30MHz was not included since the emission levels are very low against the limit.

Site :HY-CB01
Condition :3m ,VERTICAL
Mode :TX_bt3M_2441MHz
TEST BY :Sam

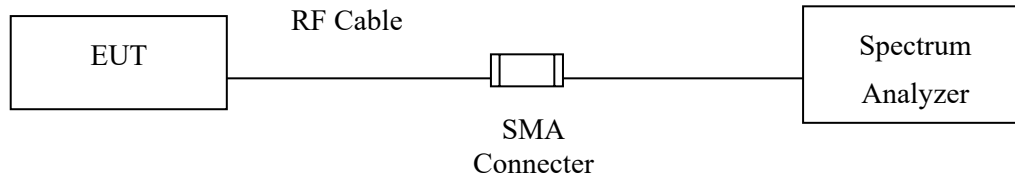


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	126.030	26.85	43.50	-16.65	52.20	-25.35	QP
2	274.440	39.00	46.00	-7.00	63.09	-24.09	QP
3	495.600	32.24	46.00	-13.76	50.61	-18.37	QP
4	627.520	29.14	46.00	-16.86	44.72	-15.58	QP
5	836.070	27.76	46.00	-18.24	40.48	-12.72	QP
6	960.230	30.56	54.00	-23.44	41.80	-11.24	QP

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission under 30MHz was not included since the emission levels are very low against the limit.

5. RF Antenna Conducted Test

5.1. Test Setup



5.2. Limits

According to FCC Section 15.247(d). In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

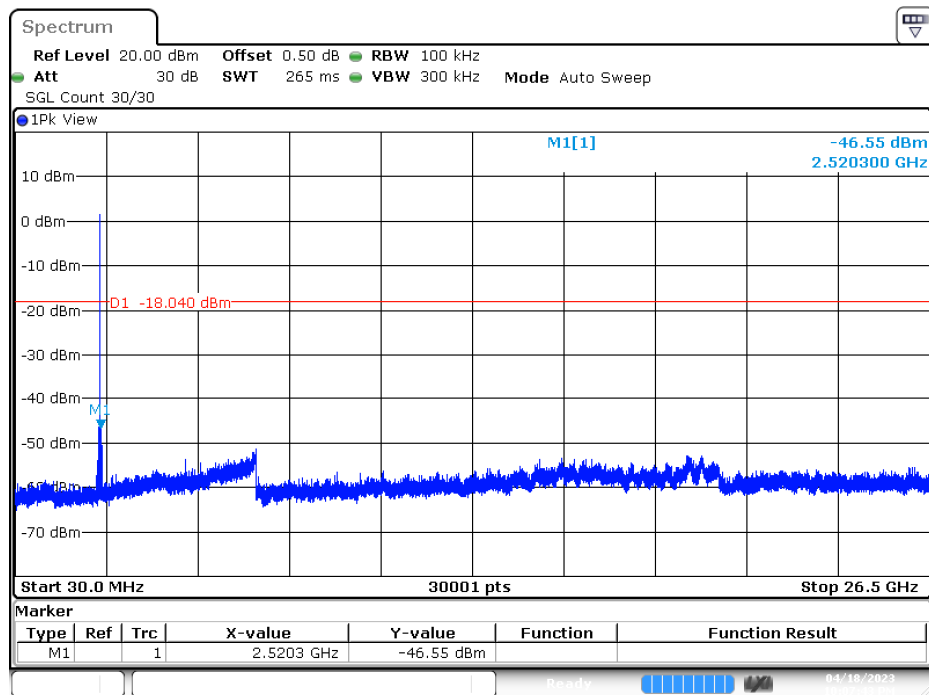
5.3. Test Procedure

Tested according to FHSS test procedure of KDB558074 section 9 b) for compliance to FCC 47CFR 15.247 requirements.

5.4. Test Result of RF Antenna Conducted Test

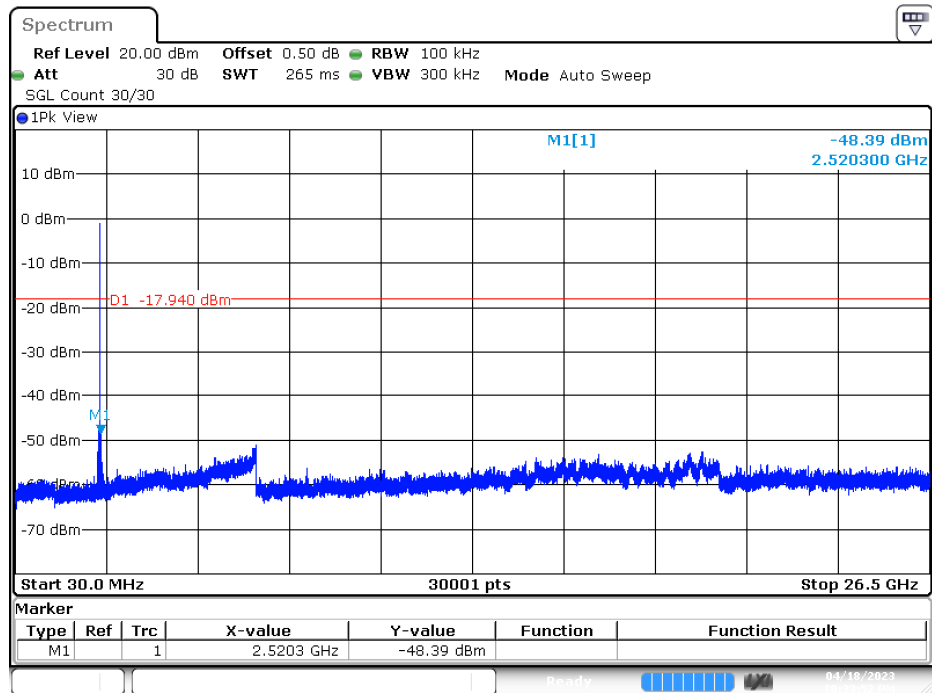
Product : Hybrid Instant Camera
Test Item : RF Antenna Conducted Test
Test Mode : Transmit-1 Mbps
Test Date : 2023/04/18

Figure Channel 78



Date: 18.APR.2023 22:07:44

Product : Hybrid Instant Camera
Test Item : RF Antenna Conducted Test
Test Mode : Transmit-3 Mbps
Test Date : 2023/04/18

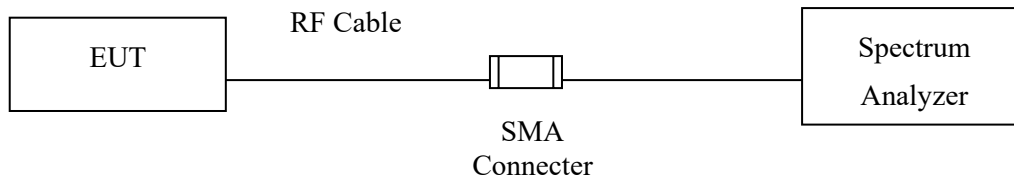
Figure Channel 78

Date: 18.APR.2023 22:33:52

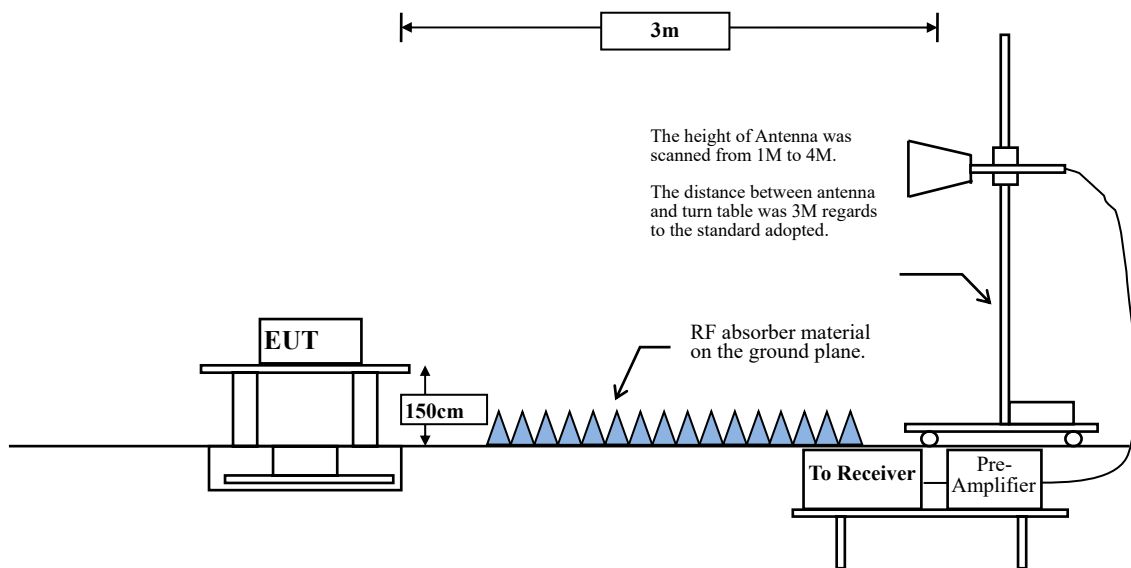
6. Band Edge

6.1. Test Setup

RF Conducted Measurement



RF Radiated Measurement:



6.2. Limit

According to FCC Section 15.247(d). In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

6.3. Test Procedure

The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

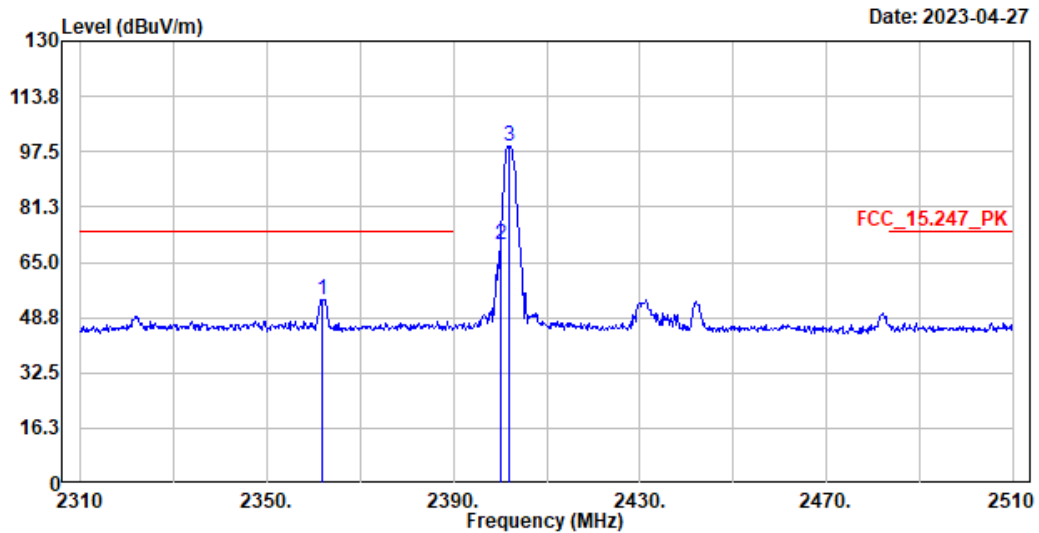
The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10: 2013 on radiated measurement.

The bandwidth setting below 1 GHz and above 1 GHz on the field strength meter is 120 kHz and 1MHz, respectively.

6.4. Test Result of Band Edge

Site :HY-CB01
 Condition :3m ,Horizontal
 Mode :TX_bt1M_2402MHz
 TEST BY :Caster



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
			dBuV/m	dB	dBuV	dB	
1	2361.800	54.06	74.00	-19.94	48.30	5.76	Peak
2	2400.000	70.36	-----	-----	64.73	5.63	Peak
3	2402.000	99.30	-----	-----	93.67	5.63	Peak

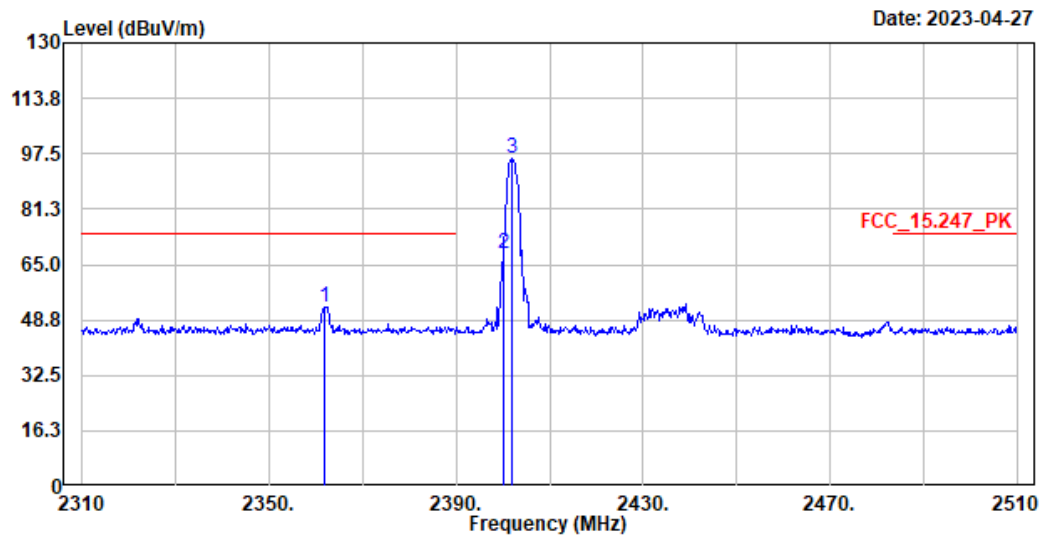
Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Horizontal-Average Detector:

Frequency (MHz)	Peak Measurement (dBμV/m)	Duty Cycle Factor (dB)	Measurement Level (dBμV/m)	Margin (dB)	Limit (dBμV/m)
2361.8	54.06	-30.755	23.305	-30.695	54.000
2400	70.36	-30.755	39.605	--	--
2402	99.3	-30.755	68.545	--	--

Site :HY-CB01
 Condition :3m ,VERTICAL
 Mode :TX_bt1M_2402MHz
 TEST BY :Caster



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
			dBuV/m	dB	dBuV	dB	
1	2361.800	52.72	74.00	-21.28	46.96	5.76	Peak
2	2400.000	68.23	-----	-----	62.60	5.63	Peak
3	2402.000	95.92	-----	-----	90.29	5.63	Peak

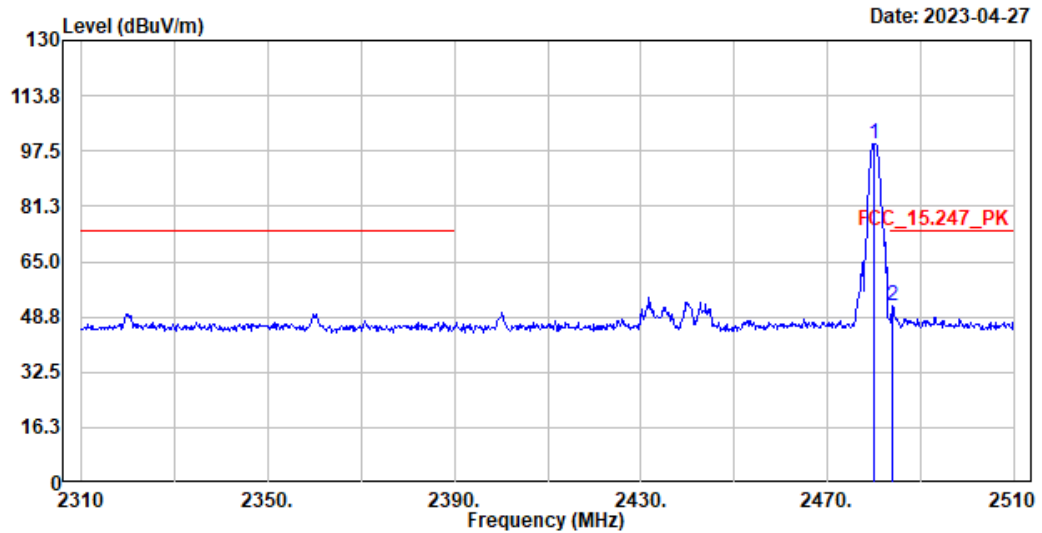
Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Vertical-Average Detector:

Frequency (MHz)	Peak Measurement (dBμV/m)	Duty Cycle Factor (dB)	Measurement Level (dBμV/m)	Margin (dB)	Limit (dBμV/m)
2361.8	52.72	-30.755	21.965	-32.035	54.000
2400	68.23	-30.755	37.475	--	--
2402	95.92	-30.755	65.165	--	--

Site :HY-CB01
 Condition :3m ,HORIZONTAL
 Mode :TX_bt1M_2480MHz
 TEST BY :Caster



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
			Line	Limit	Level		
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	2480.000	99.52	-----	-----	93.88	5.64	Peak
2	2483.800	51.98	74.00	-22.02	46.32	5.66	Peak

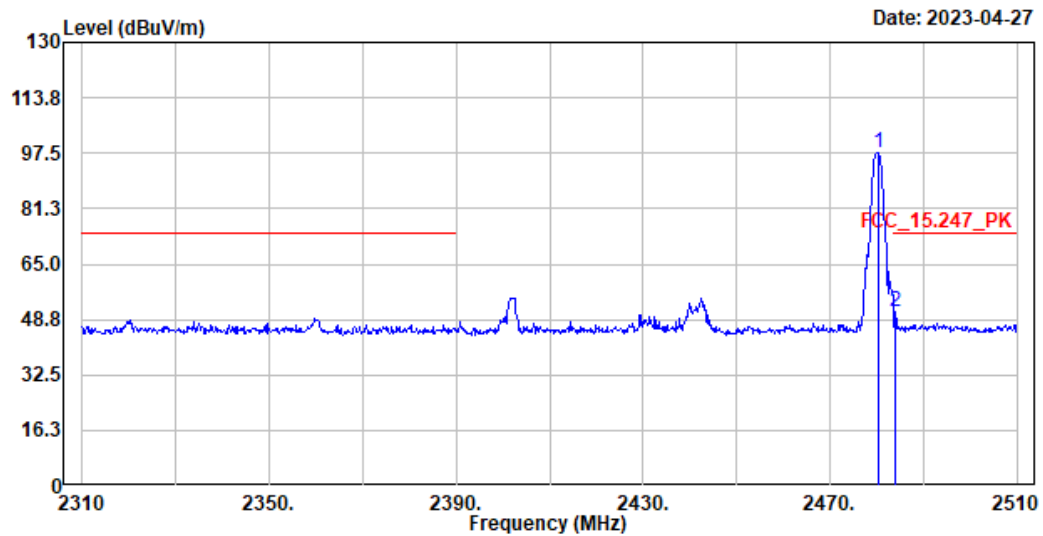
Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Horizontal-Average Detector:

Frequency (MHz)	Peak Measurement (dBμV/m)	Duty Cycle Factor (dB)	Measurement Level (dBμV/m)	Margin (dB)	Limit (dBμV/m)
2480	99.52	-30.755	68.765	--	--
2483.8	51.98	-30.755	21.225	-32.775	54.000

Site :HY-CB01
 Condition :3m ,VERTICAL
 Mode :TX_bt1M_2480MHz
 TEST BY :Caster



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	2480.200	97.43	-----	-----	91.79	5.64	Peak
2	2484.000	51.07	74.00	-22.93	45.41	5.66	Peak

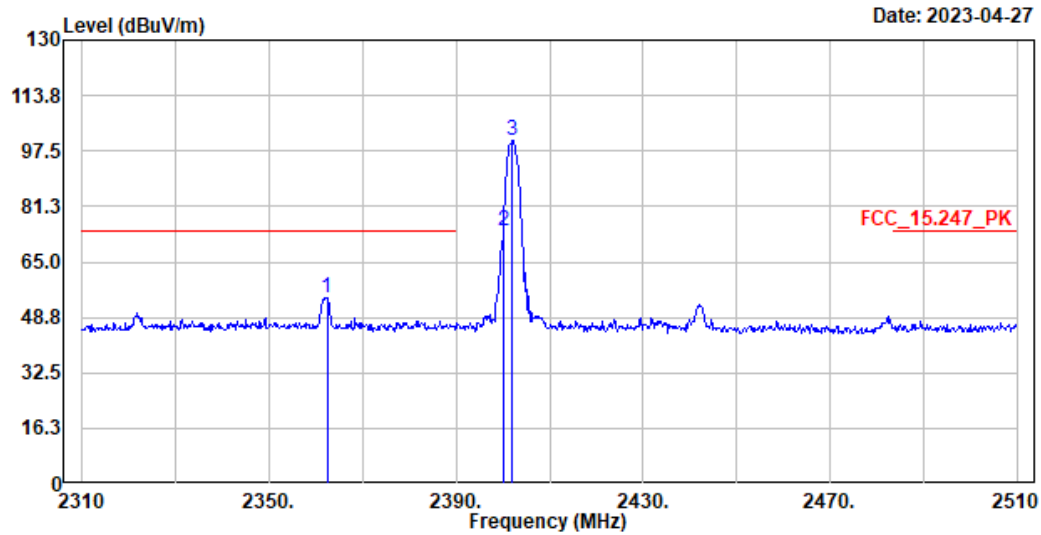
Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Vertical-Average Detector:

Frequency (MHz)	Peak Measurement (dBμV/m)	Duty Cycle Factor (dB)	Measurement Level (dBμV/m)	Margin (dB)	Limit (dBμV/m)
2480.2	97.43	-30.755	66.675	--	--
2484	51.07	-30.755	20.315	-33.685	54.000

Site :HY-CB01
 Condition :3m ,HORIZONTAL
 Mode :TX_bt3M_2402MHz
 TEST BY :Caster



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	2362.400	54.37	74.00	-19.63	48.61	5.76	Peak
2	2400.000	74.27	-----	-----	68.64	5.63	Peak
3	2402.000	100.36	-----	-----	94.73	5.63	Peak

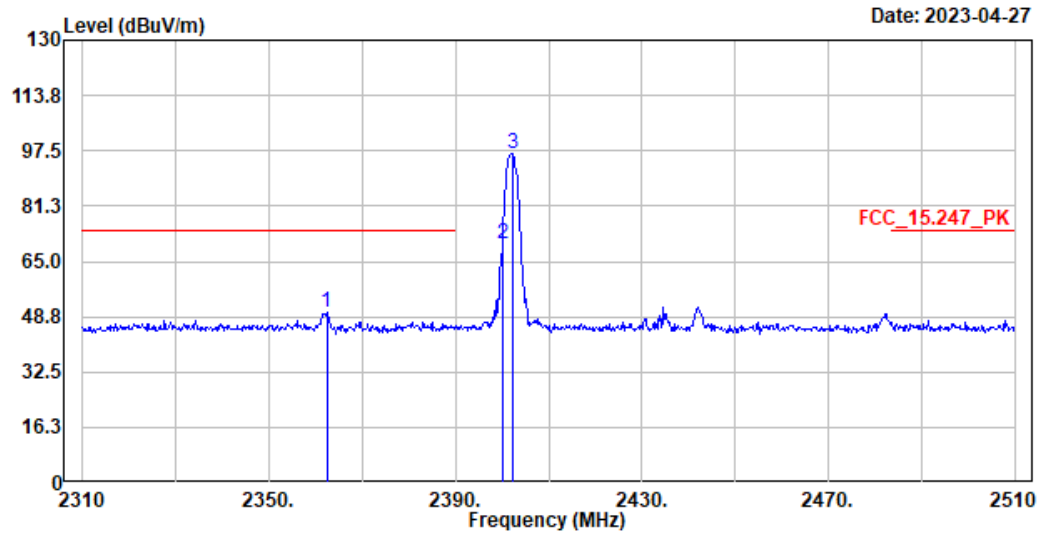
Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Horizontal-Average Detector:

Frequency (MHz)	Peak Measurement (dBμV/m)	Duty Cycle Factor (dB)	Measurement Level (dBμV/m)	Margin (dB)	Limit (dBμV/m)
2362.4	54.37	-31.201	23.169	-30.831	54.000
2400	74.27	-31.201	43.069	--	--
2402	100.36	-31.201	69.159	--	--

Site :HY-CB01
 Condition :3m ,VERTICAL
 Mode :TX_bt3M_2402MHz
 TEST BY :Caster



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	2362.400	50.25	74.00	-23.75	44.49	5.76	Peak
2	2400.000	70.33	-----	-----	64.70	5.63	Peak
3	2402.200	96.70	-----	-----	91.07	5.63	Peak

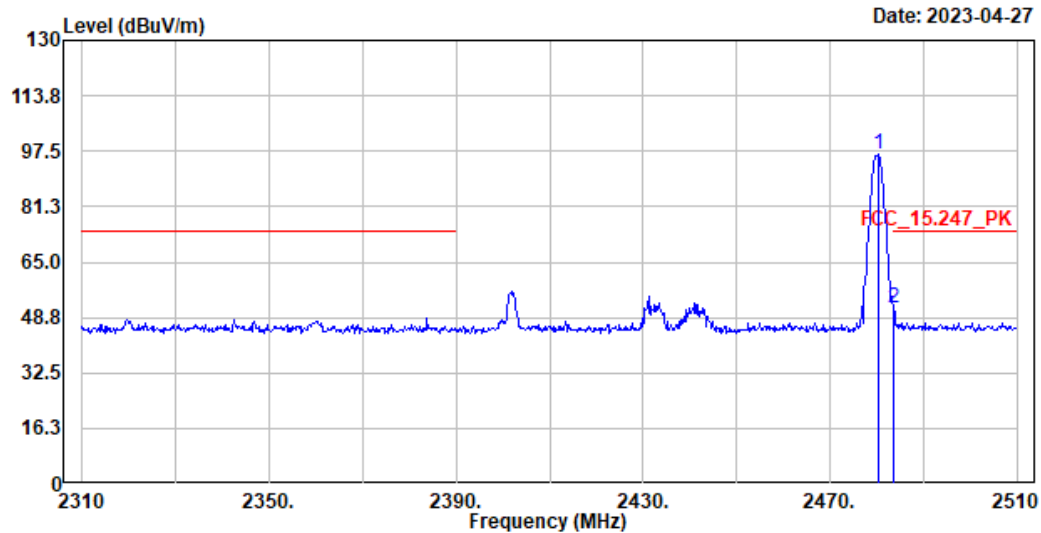
Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Vertical-Average Detector:

Frequency (MHz)	Peak Measurement (dBμV/m)	Duty Cycle Factor (dB)	Measurement Level (dBμV/m)	Margin (dB)	Limit (dBμV/m)
2362.4	50.25	-31.201	19.049	-34.951	54.000
2400	70.33	-31.201	39.129	--	--
2402.2	96.7	-31.201	65.499	--	--

Site :HY-CB01
 Condition :3m ,HORIZONTAL
 Mode :TX_bt3M_2480MHz
 TEST BY :Caster



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	dBuV	dB	
1	2480.200	96.43	-----	-----	90.79	5.64	Peak
2	2483.600	51.49	74.00	-22.51	45.83	5.66	Peak

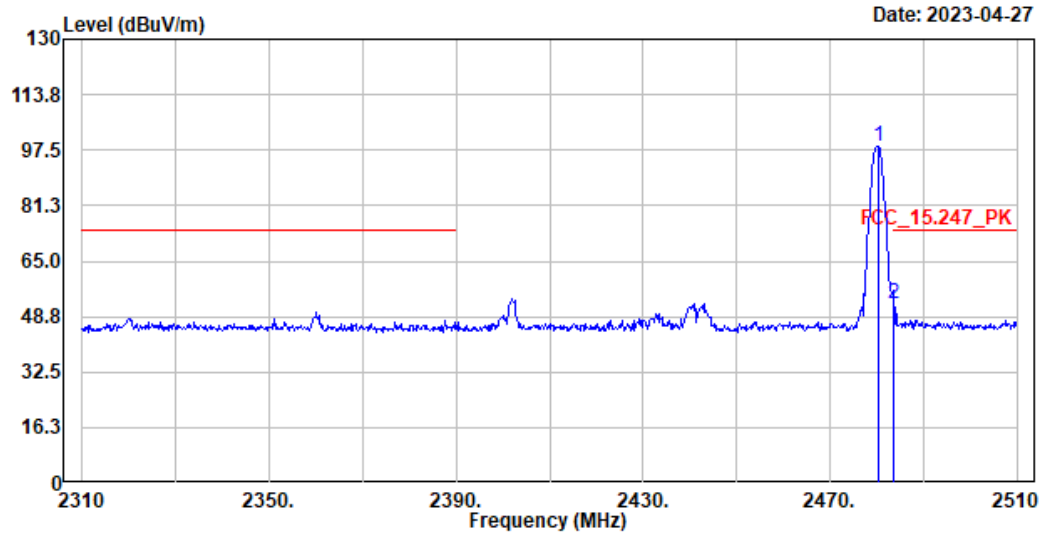
Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Horizontal-Average Detector:

Frequency	Peak Measurement	Duty Cycle Factor	Measurement Level	Margin	Limit
2480.2	96.43	-31.201	65.229	--	--
2483.6	51.49	-31.201	20.289	-33.711	54.000

Site :HY-CB01
 Condition :3m ,VERTICAL
 Mode :TX_bt3M_2480MHz
 TEST BY :Caster



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	2480.200	98.73	-----	-----	93.09	5.64	Peak
2	2483.600	52.58	74.00	-21.42	46.92	5.66	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

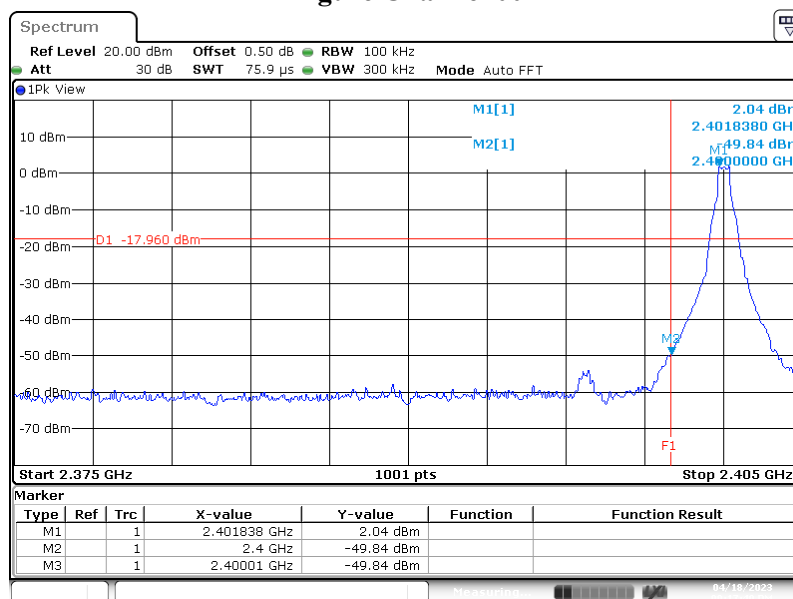
Vertical-Average Detector:

Frequency (MHz)	Peak Measurement (dBμV/m)	Duty Cycle Factor (dB)	Measurement Level (dBμV/m)	Margin (dB)	Limit (dBμV/m)
2480.2	98.73	-31.201	67.529	--	--
2483.6	52.58	-31.201	21.379	-32.621	54.000

Product : Hybrid Instant Camera
Test Item : Band Edge
Test Mode : Transmit-1 Mbps (Hopping off)
Test Date : 2023/04/18

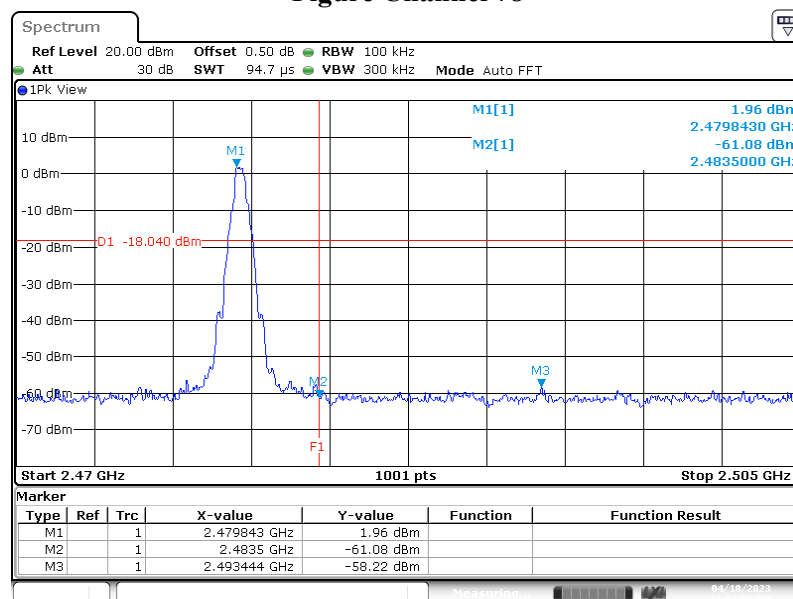
Measurement Level	Result
Δ (dB)	
> 20	PASS

Figure Channel 00



Date: 18.APR.2023 21:17:49

Figure Channel 78



Date: 18.APR.2023 22:07:06

Product : Hybrid Instant Camera
 Test Item : Band Edge
 Test Mode : Transmit-3 Mbps (Hopping off)
 Test Date : 2023/04/18

Measurement Level Δ (dB)	Result
> 20	PASS

Figure Channel 00

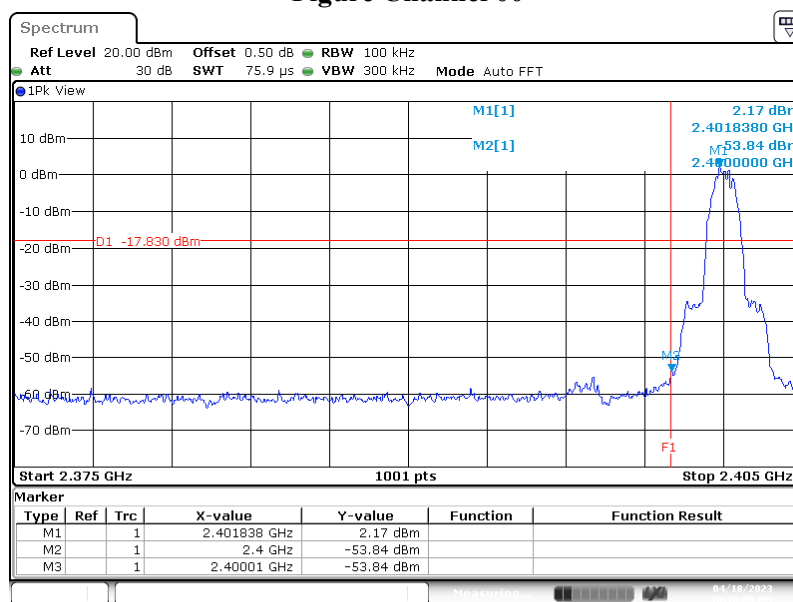
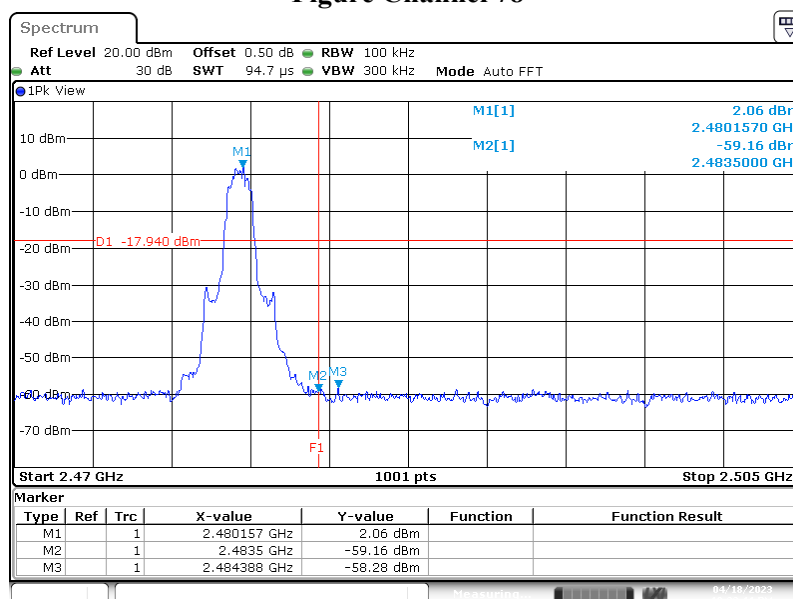


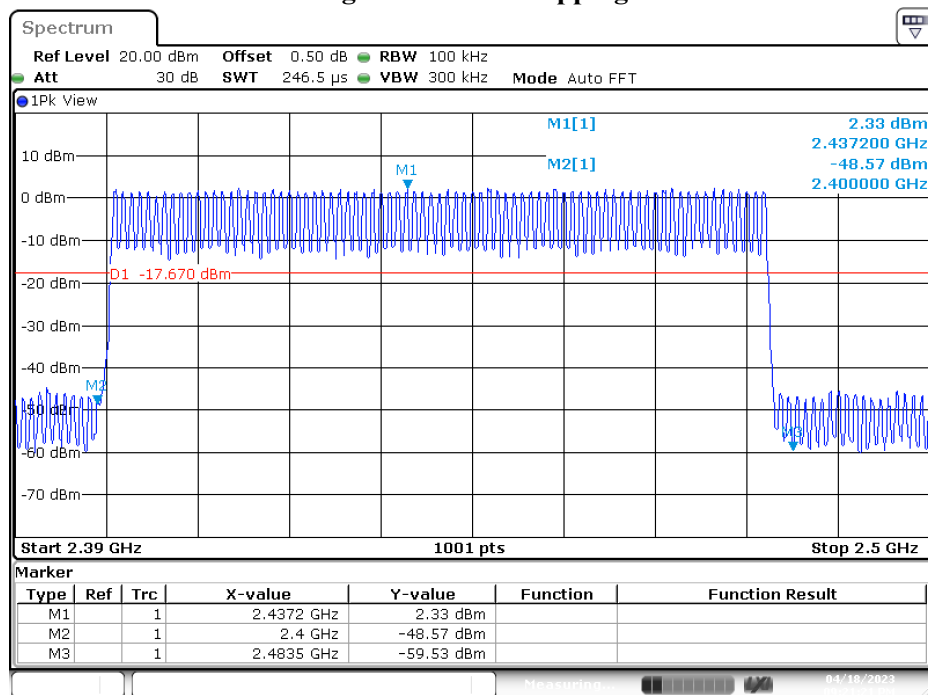
Figure Channel 78



Product : Hybrid Instant Camera
 Test Item : Band Edge
 Test Mode : Transmit-1 Mbps (Hopping on)
 Test Date : 2023/04/18

Measurement Level Δ (dB)	Result
> 20	PASS

Figure Channel Hopping

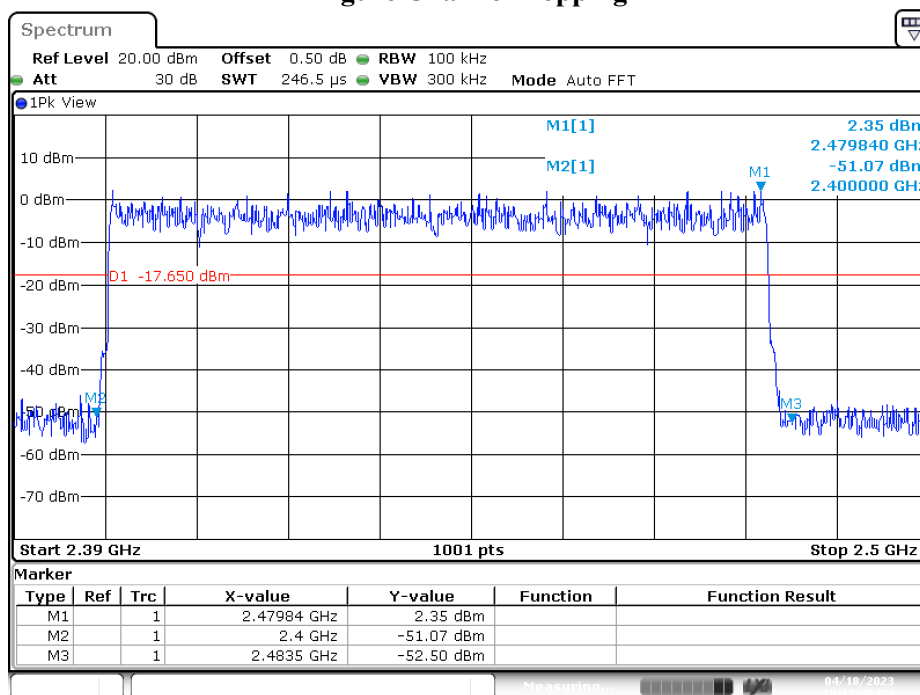


Date: 18.APR.2023 21:21:21

Product : Hybrid Instant Camera
 Test Item : Band Edge
 Test Mode : Transmit-3 Mbps (Hopping on)
 Test Date : 2023/04/18

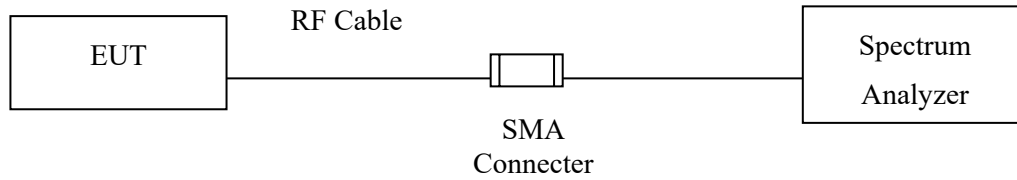
Measurement Level	Result
Δ (dB)	
> 20	PASS

Figure Channel Hopping



7. Channel Number

7.1. Test Setup



7.2. Limit

Frequency hopping systems operating in the 2400-2483.5 MHz bands shall use at least 75 hopping frequencies.

7.3. Test Procedure

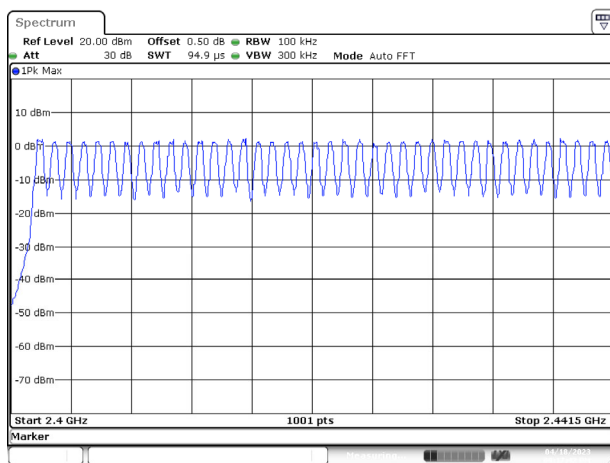
Tested according to FHSS test procedure of KDB558074 section 9 (b for compliance to FCC 47CFR 15.247 requirements.

7.4. Test Result of Channel Number

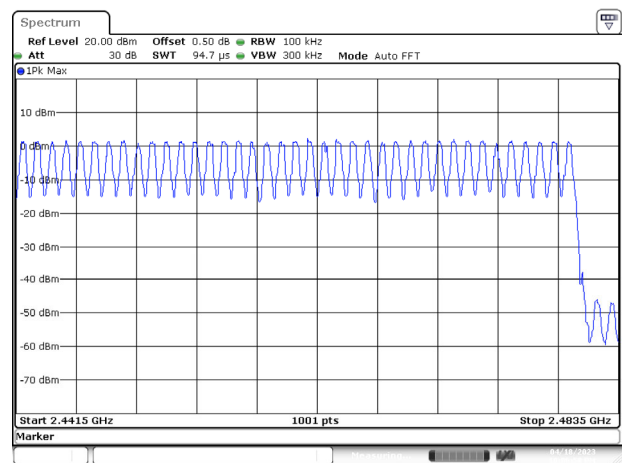
Product : Hybrid Instant Camera
Test Item : Channel Number
Test Mode : Transmit-1 Mbps
Test Date : 2023/04/18

Frequency Range (MHz)	Measurement (Hopping Channel)	Required Limit (Hopping Channel)	Result
2402 ~ 2480	79	>75	Pass

2402 MHz



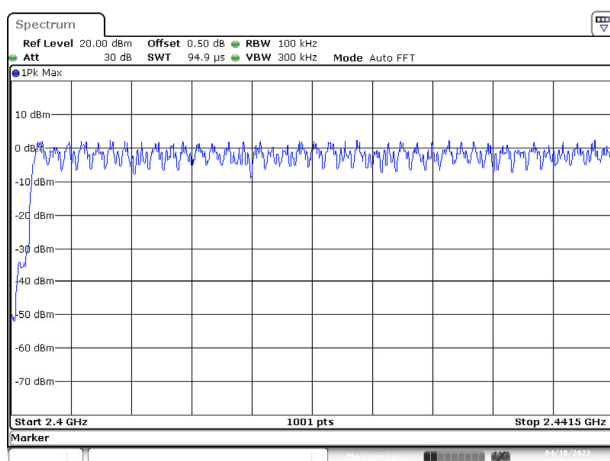
2480 MHz



Product : Hybrid Instant Camera
Test Item : Channel Number
Test Mode : Transmit-3 Mbps
Test Date : 2023/04/18

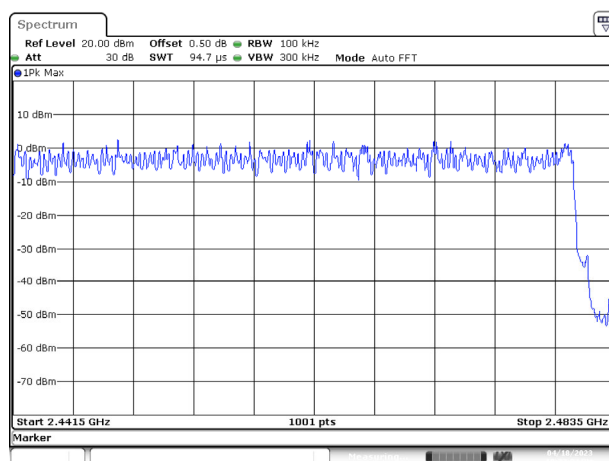
Frequency Range (MHz)	Measurement (Hopping Channel)	Required Limit (Hopping Channel)	Result
2402 ~ 2480	79	>75	Pass

2402 MHz



Date: 18 APR 2023 22:15:53

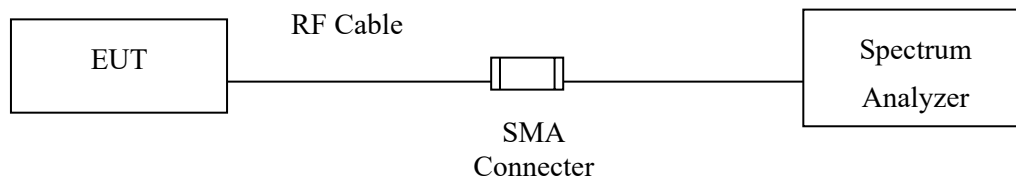
2480 MHz



Date: 18 APR 2023 22:33:05

8. Channel Separation

8.1. Test Setup



8.2. Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

8.3. Test Procedure

Tested according to FHSS test procedure of KDB558074 section 9 (b for compliance to FCC 47CFR 15.247 requirements.

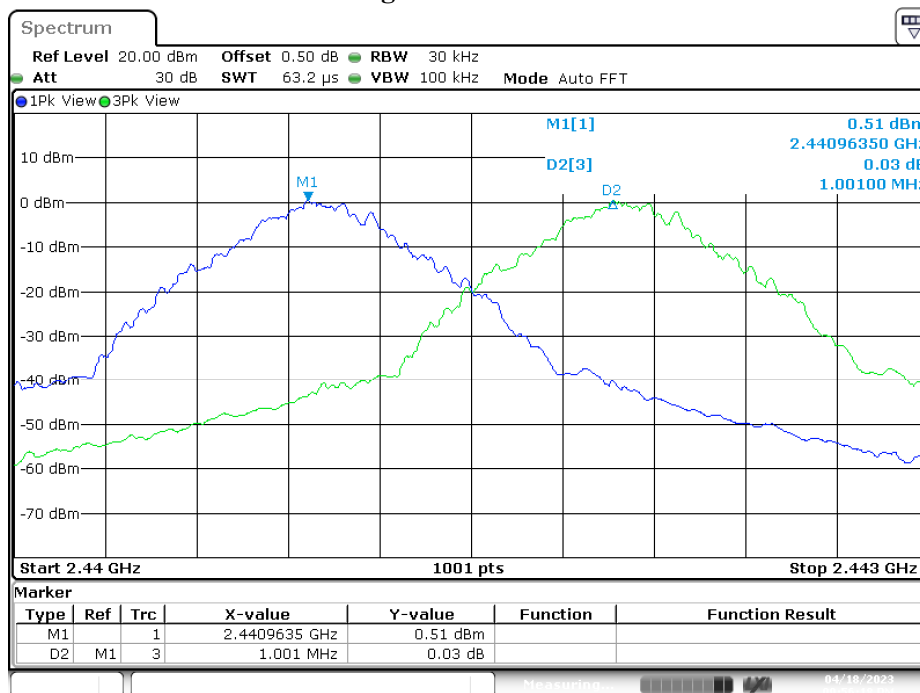
8.4. Test Result of Channel Separation

Product : Hybrid Instant Camera
 Test Item : Channel Separation
 Test Mode : Transmit-1 Mbps
 Test Date : 2023/04/18

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Limit (kHz)	Limit of (2/3)*20dB Bandwidth (kHz)	Result
00	2402	998	>25 kHz	678.7	Pass
39	2441	1001	>25 kHz	680.7	Pass
78	2480	1001	>25 kHz	682.7	Pass

Note: The 20dB Bandwidth is refer to section 10.

Figure Channel 39



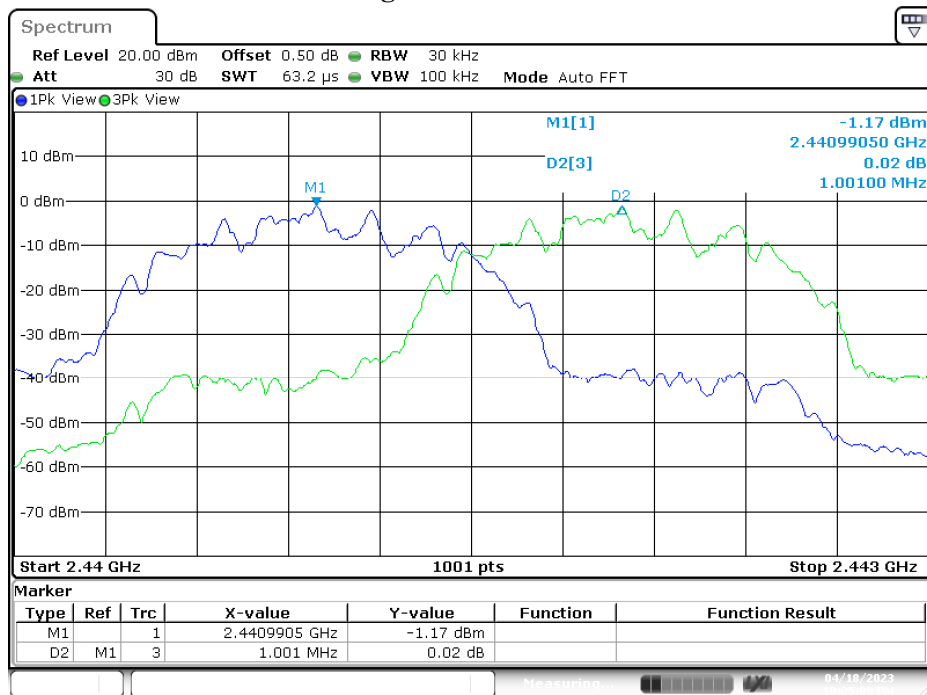
Date: 18.APR.2023 21:56:18

Product : Hybrid Instant Camera
 Test Item : Channel Separation
 Test Mode : Transmit-3 Mbps
 Test Date : 2023/04/18

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Limit (kHz)	Limit of (2/3)*20dB Bandwidth (kHz)	Result
00	2402	965	>25 kHz	854.7	Pass
39	2441	1001	>25 kHz	854.7	Pass
78	2480	1001	>25 kHz	856.7	Pass

Note: The 20dB Bandwidth is refer to section 10.

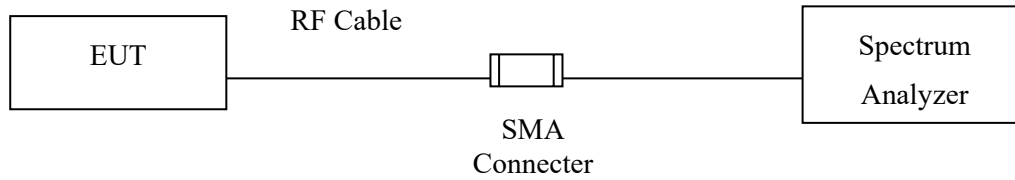
Figure Channel 39



Date: 18.APR.2023 22:25:08

9. Dwell Time

9.1. Test Setup



9.2. Limit

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

9.3. Test Procedure

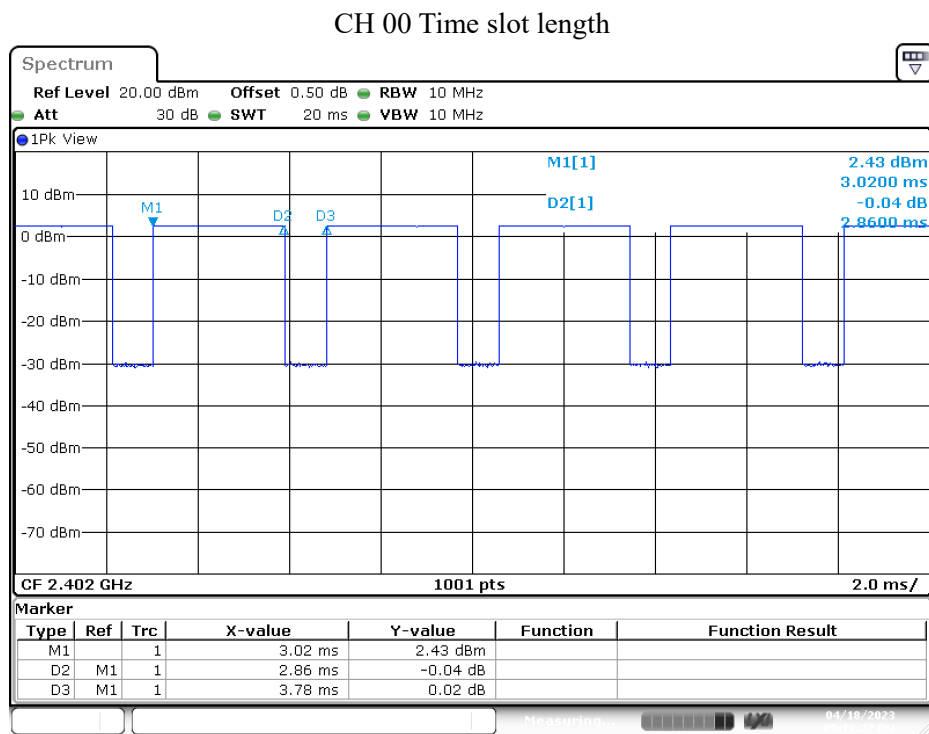
Tested according to FHSS test procedure of KDB558074 section 9 (b for compliance to FCC 47CFR 15.247 requirements.

9.4. Test Result of Dwell Time

Product : Hybrid Instant Camera
 Test Item : Dwell Time
 Test Mode : Transmit-1 Mbps (Channel 00, 39, 78)
 Test Date : 2023/04/18

Frequency (MHz)	Time slot length (ms)	Period (sec)	(calculation)	Dwell Time (ms)	Limit (ms)	Result
2402	2.860	31.6	$\text{Time}(\text{sec}) \times (266.67/79) \times 31.6$	305.070	400	Pass
2441	2.860	31.6	$\text{Time}(\text{sec}) \times (266.67/79) \times 31.6$	305.070	400	Pass
2480	2.860	31.6	$\text{Time}(\text{sec}) \times (266.67/79) \times 31.6$	305.070	400	Pass

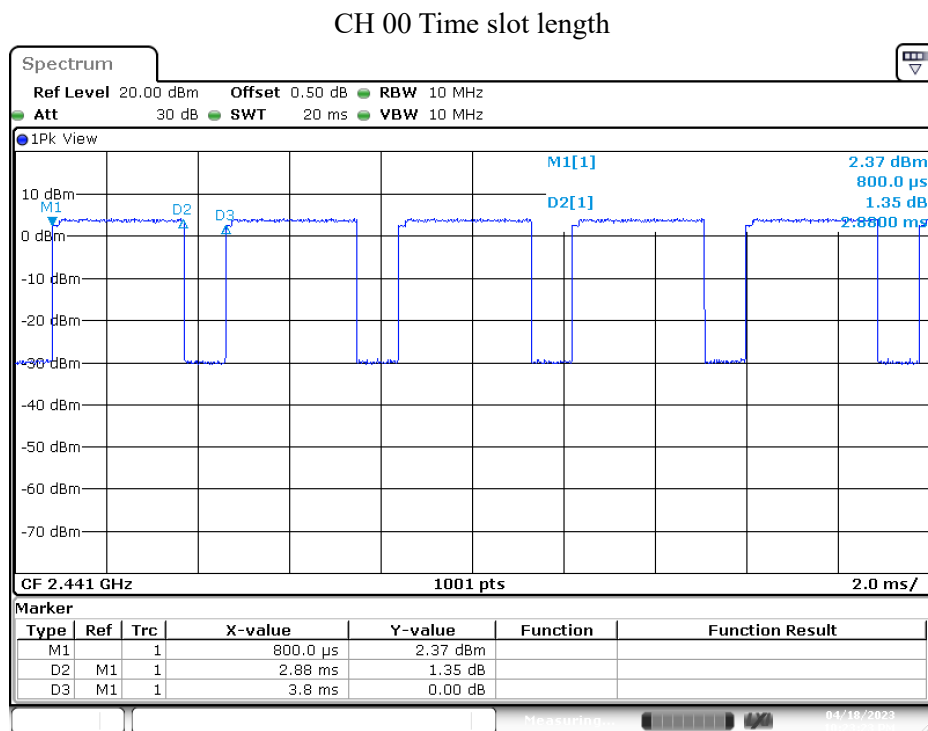
Note: Dwell time = Time slot length * calculation



Product : Hybrid Instant Camera
 Test Item : Dwell Time
 Test Mode : Transmit-3 Mbps (Channel 00, 39, 78)
 Test Date : 2023/04/18

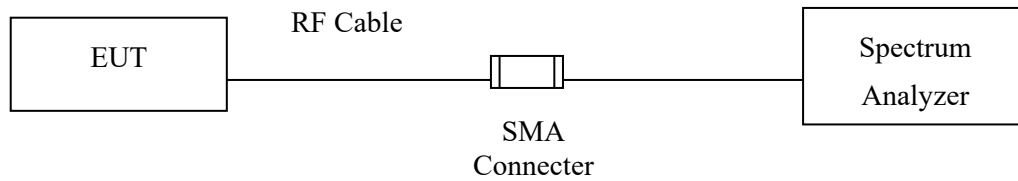
Frequency (MHz)	Time slot length (ms)	Period (sec)	(calculation)	Dwell Time (ms)	Limit (ms)	Result
2402	2.860	31.6	$\text{Time(sec)} \times (266.67/79) \times 31.6$	305.070	400	Pass
2441	2.880	31.6	$\text{Time(sec)} \times (266.67/79) \times 31.6$	307.204	400	Pass
2480	2.860	31.6	$\text{Time(sec)} \times (266.67/79) \times 31.6$	305.070	400	Pass

Note: Dwell time = Time slot length * calculation



10. Occupied Bandwidth

10.1. Test Setup



10.2. Limits

N/A

10.3. Test Procedure

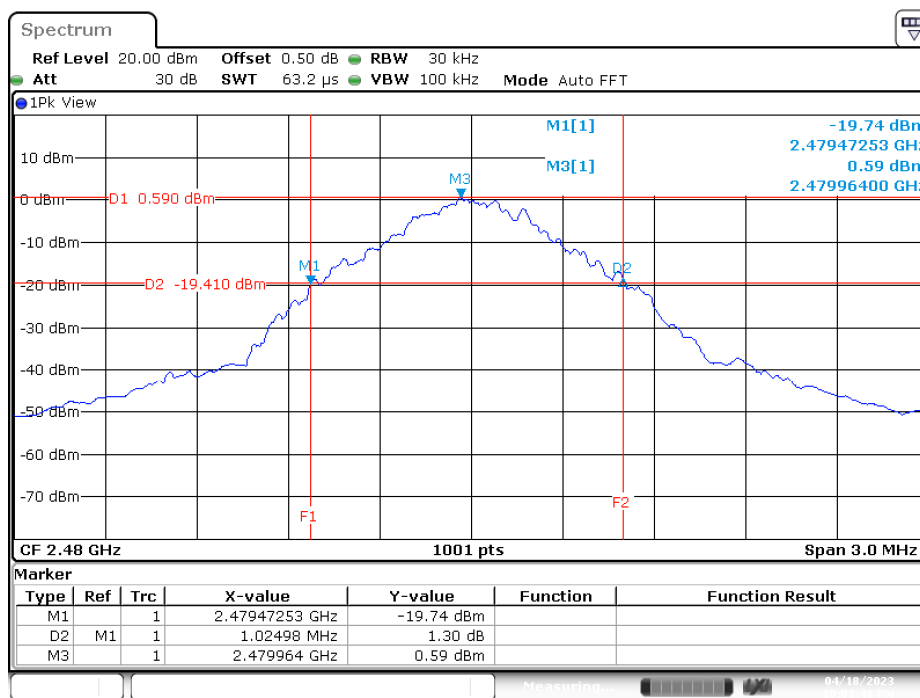
Tested according to FHSS test procedure of KDB558074 section 9 (b for compliance to FCC 47CFR 15.247 requirements.

10.4. Test Result of Occupied Bandwidth

Product : Hybrid Instant Camera
 Test Item : Occupied Bandwidth Data
 Test Mode : Transmit-1 Mbps
 Test Date : 2023/04/18

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
00	2402	1018	--	NA
39	2441	1021	--	NA
78	2480	1024	--	NA

Figure Channel 39

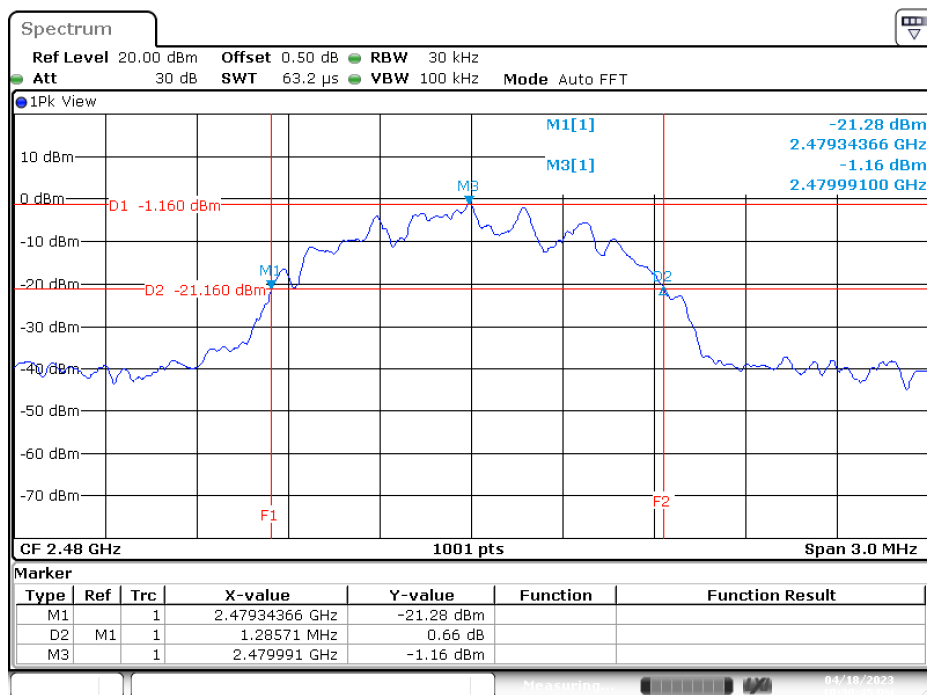


Date: 18.APR.2023 22:01:49

Product : Hybrid Instant Camera
 Test Item : Occupied Bandwidth Data
 Test Mode : Transmit-3 Mbps
 Test Date : 2023/04/18

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
00	2402	1282	--	NA
39	2441	1282	--	NA
78	2480	1285	--	NA

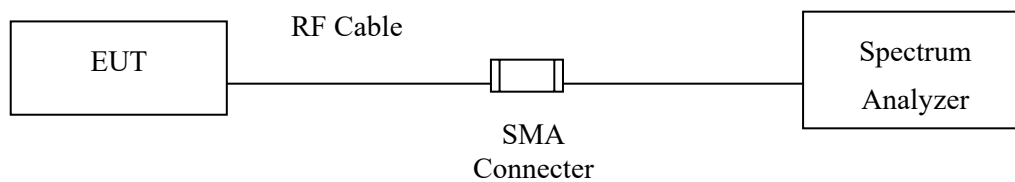
Figure Channel 78



Date: 18.APR.2023 22:30:46

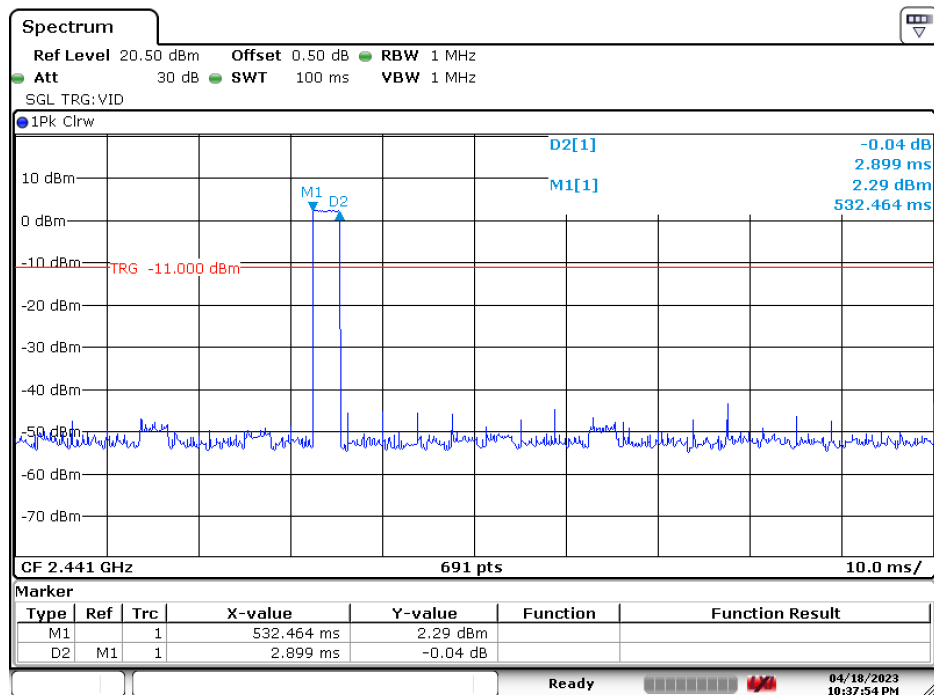
11. Duty Cycle

11.1. Test Setup



11.2. Test Result of Duty Cycle

Product : Hybrid Instant Camera
 Test Item : Duty Cycle Data
 Test Mode : Transmit-1 Mbps



Date: 18.APR.2023 22:37:55

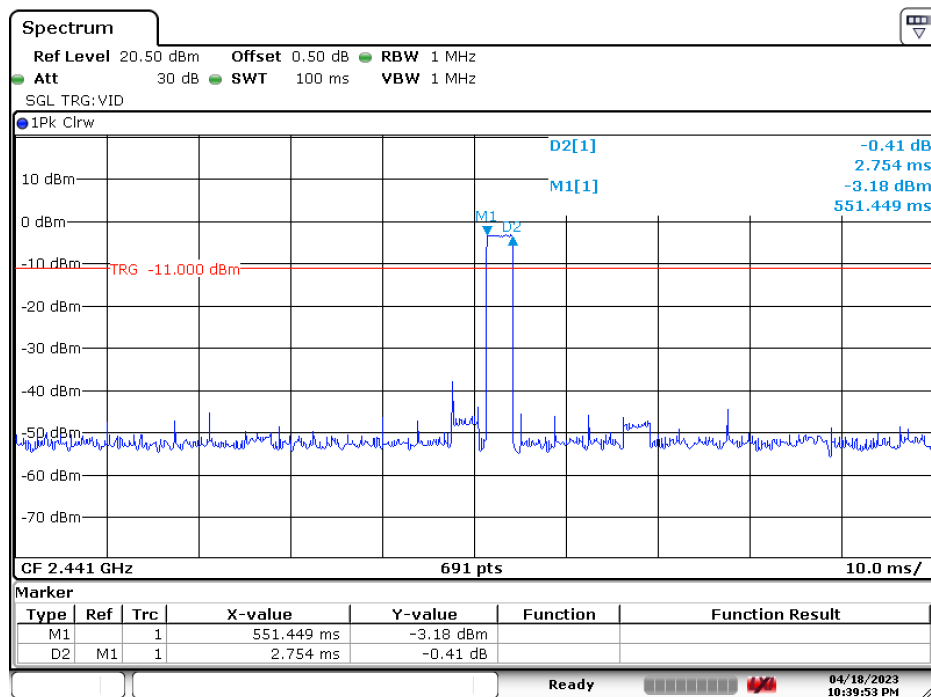
Time on of 100ms = 2.899ms

Duty Cycle = 2.899ms / 100ms = 0.02899

Duty Cycle correction factor = 20 LOG 0.02899 = -30.755 dB

Duty Cycle correction factor -30.755 dB

Product : Hybrid Instant Camera
 Test Item : Duty Cycle Data
 Test Mode : Transmit-3 Mbps



Date: 18.APR.2023 22:39:53

Time on of 100ms = 2.754ms

Duty Cycle = 2.754ms / 100ms = 0.02754

Duty Cycle correction factor = 20 LOG 0.02754 = -31.201 dB

Duty Cycle correction factor -31.201 dB