

TEST REPORT

Report number: DRTTEC2211-0082

Issue Date: 2022-11-25

Applicant

- Company Name : Bluebird Inc.

- Address : 3F, 115, Irwon-ro, Gangnam-gu, Seoul, Republic of Korea

Equipment under test

- Product Name : Hybrid Full-Touch Handheld Computer

- Model Name : HF550X

Date of Test : 2022.10.04 ~ 2022.11.07

Laboratory

- Company Name : DT&C Co., Ltd.

- Address : 42, Yurim-ro, 154beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea 449-935

Test Results : PASS

The results in this reports are applicable only to the samples tested.
This report shall not be re-produced except in full without the written approval of
DT&C Co., Ltd.

Tested Engineer;

SungJung Kim

Approval Person;

HyunSu Son

1. Summary of Test

1. Purpose of test

Ordinance on Technical Standards Conformity Certification of Specified Radio Equipment
5.6GHz Band wide band low power data communication System

2. Standards

Certification Ordinance Article 2 Clause 1 Item19-3

1) Test Methods

Test method temporarily determined by TELEC

2) Deviation from standards

None

3. List of applied test to the EUT

-	Classification of EUT	Condition	Result
1	Voltage fluctuation	Conducted	PASS
3	Frequency Tolerance	Conducted	PASS
4	Occupied Bandwidth	Conducted	PASS
5	Unwanted (Spurious) Emission Strength	Conducted	PASS
6	RF Output Power Tolerance	Conducted	PASS
7	Adjacent Channel Leakage Power and Out-of-Band Leakage Power	Conducted	PASS
8	Secondary Emitted Radio Wave Strength	Conducted	PASS
9	Interference Prevention Function	Conducted	PASS
10	Transmission Burst Length	Conducted	PASS
11	Transmission Power Control Function (TPC)	Conducted	PASS
12	Carrier Sensing Function	Conducted	PASS
14	Dynamic Frequency Selection Function(DFS)	Conducted	NA

1) Test set up

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2) Modification to the EUT by laboratory

None

2. Test Information

1. Applicant

Bluebird Inc.

3F, 115, Irwon-ro, Gangnam-gu, Seoul, Republic of Korea

2. Product Name

Hybrid Full-Touch Handheld Computer

3. Model Name

HF550X

4. Serial number

Identical Prototype

5. Size

(W) 74.8 x (D) 11.65 x (H) 154.4 mm

6. Terminal limitation

-20°C to 70°C

7. RF Specification Frequency range

802.11a/n/ac(HT20/VHT20) : 5500 MHz ~ 5720 MHz

802.11n/ac(HT40/VHT40) : 5510 MHz ~ 5710 MHz

802.11ac(VHT80) : 5530MHz ~ 5690 MHz

8. Number of RF Channels

20 MHz: 12 Channels // 40 MHz: 6 Channels // 80 MHz: 3 Channel

9. Modulation method & Data rate

802.11a: Orthogonal Frequency Division Multiplexing(Up to 54Mbps)

802.11n(HT20): Orthogonal Frequency Division Multiplexing(Up to 72.2Mbps)

802.11n(HT40): Orthogonal Frequency Division Multiplexing(Up to 150Mbps)

802.11ac(VHT20): Orthogonal Frequency Division Multiplexing(Up to 86.7Mbps)

802.11ac(VHT40): Orthogonal Frequency Division Multiplexing(Up to 200Mbps)

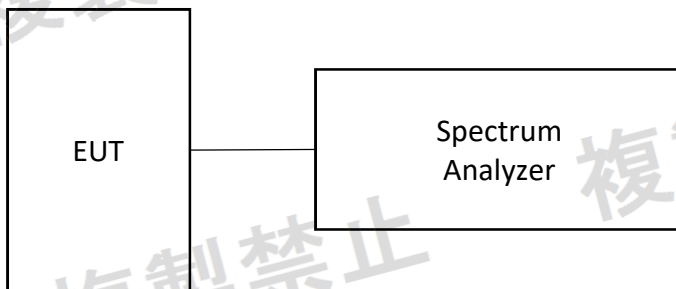
802.11ac(VHT80): Orthogonal Frequency Division Multiplexing(Up to 433.3Mbps)

10. Variation of the family model(s)

-

3. Configuration of equipment

1. Frequency tolerance, Occupied Bandwidth, RF output power tolerance, Unwanted(Spurious) emission strength, Secondary emitted radio wave strength



4. List of Measuring Instruments

[illegible]

Note1: "X" は使用した測定機器です。

"X" used equipment.

Note2: 較正期限は、較正を行った日の翌月から起算して1年以内です。

The validity of measurement equipment is one year from the first day of the following month of the calibration.

Note3: 較正方法 1) : 国立研究開発法人情報通信研究機構 (NICT) (以下「機構」という。)又は第百二条の十八第一項の指定較正機関
Cal. Method 関

(TELEC, インターテックジャパン、キーサイト)が行う較正

a) : Calibration conducted by the National Institute of Information and Communications Technology (NICT) or a designated calibration agency under Article 102-18 paragraph (1) of the Telecommunications Business Act, or by the Telecom Engineering Center, Intertek Japan K.K.,

ロ：計量法（平成四年法律第五十一号）第百三十五条又は第百四十四条の規定に基づく校正（JCSS校正）

b) : Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992)~Japan Calibration Service System~

ハ)：外国において行う較正であつて、機構又は第百二条の十八第一項の指定較正機関

(TELEC, インターテックジャパン、キーサイト) が行う較正に相当するもの

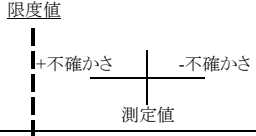
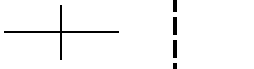
c) : Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1)- Telecom Engineering Center, Intertek Japan K.K., Keysight Technologies, Inc-.

ニ)：イからハまでのいずれかに掲げる較正等を受けたものを用いて行う較正等

d) : Calibration conducted by using other equipment that listed above from a) to c)

5. Uncertainty

Parameter	Uncertainty
Total RF power conducted	1.1 dB
Spurious emissions conducted	1.1 dB
Temperature	0.8℃
Humidity	3.0%

判定	測定データにおける不確かさの判断とその範囲		
適合	例 A		測定結果と不確かさは与えられた限度値内に入っています。これを『適合』と呼びます。
	例 B		完全には、限度値内でも限度値外でもありません。この場合の適合性については、確実な結論を出すことは出来ません。
不適合	例 C		完全には、限度値内でも限度値外でもありません。この場合の適合性については、確実な結論を出すことは出来ません。
	例 D		測定結果も不確かさも与えられた限度値内に入っていません。これは『不適合』と呼びます。

6. Configuration Photographs

Conducted Measurement Photo #1



Conducted Measurement Photo #2

NA

7. Laboratory description

1. Location

- Name: DT&C Co., Ltd.
- Address: 42, Yurim-ro, 154beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea 449-935
- Phone: +81-031-321-2664
- Fax: +81-031-321-2855

2. Accreditation and Registration

1) VLAC

Accreditation No.: N/A

2) NVLAP

LAB CODE: N/A

3) BSMI

Laboratory Code: TL652

4) Industry Canada

Site number	Facility	Expiration date
5740A	DT&C Co., Ltd.	2023-06-14
-	-	-

5) VCCI Council

Registration number	Facility	Expiration date
C-1427	DT&C Co., Ltd.	2025-05-27
G-10754	DT&C Co., Ltd.	2022-12-18

6) KOLAS

Registration number	Facility	Expiration date
KT393	DT&C Co., Ltd.	2025-01-21

3. Test Site

1) Conducted test

Conducted Test-room

8. Test Results

Test results_802.11a

Environment of test room	Date of test	2022.10.04 ~ 2022.11.07	
	Temperature	20 ~ 23	°C
	Humidity	45 ~ 49	%

Peak Antenna Gain	2.175	dBi
Declaration Output Power	1.900	mW/MHz
	2.788	dBm/MHz
E.I.R.P	3.135	mW/MHz
	4.963	dBm/MHz
Input Power Voltage	3.850	VDC

Tested Circuit Insertion	Tx1	0.000	dB
Transmission Time	ON TIME (1sec or less)	2.028	msec
	OFF TIME (0.1sec or more)	0.037	msec
	Ratio	98.208%	
Packet Type (Mode)		OFDM	mode

Test category ;	5GHz Band Low-Power Data Communication System 802.11 a
The reason why the tests are performed only at rated voltage :	When the input voltage to receiver RF circuit varies below $\pm 1\%$ as the input voltage from the external power supply to the receiver varies $\pm 10\%$ (excluding power supply).

Measurement Channel	Ch.	100	120	144		
Measurement Frequency	MHz	5500	5600	5720	Result	Limit
Frequency Measurements(Tx1)	MHz	5500.054	5600.040	5720.014	----	----
Frequency Toleranc(Tx1)	ppm	9.817	7.142	2.448	PASS	$\pm 20 \times 10^{-6}$ (20ppm)
Occupied Bandwidth(Tx1)	MHz	16.715	16.695	16.728	PASS	20MHz or below
RF Output Power(Tx1)	mW/MHz	1.270	1.377	1.267	PASS	10mW/MHz or below
RF Output Power (Tx1)	mW/MHz	1.270	1.377	1.267	PASS	10mW/MHz or below
RF Output Power Tolerance (Tx1)	%	-33.150	-27.540	-33.304	PASS	+50% to -50%

Measurement Channel		Ch.	100	120	144		
Measurement Frequency		MHz	5500	5600	5720	Result	Limit
Adjacent Channel Leakage Power (Tx1)	cf	dB	12.185	12.290	12.166	----	----
	cf -20MHz	dB	-33.325	-33.090	-33.096	PASS	-25dBc or below
	cf +20MHz	dB	-32.755	-32.890	-32.816	PASS	-25dBc or below
	cf -40MHz	dB	-55.465	-55.060	-54.776	PASS	-40dBc or below
	cf +40MHz	dB	-54.395	-54.580	-54.196	PASS	-40dBc or below

Measurement Channel		Ch.	100	120	144		
Measurement Frequency		MHz	5500	5600	5720	Result	Limit
Unwanted (Spurious) Emission Strength(Tx1)	30MHz to 5460MHz	uW/MHz	0.017	0.004	0.004	PASS	2.5uW/MHz or below
		MHz	5454.570	3266.280	5458.914	----	----
	5460MHz to 5470MHz	uW/MHz	0.021	0.004	0.003	PASS	12.5uW/MHz or below
		MHz	5466.320	5461.400	5468.260	----	----
	5745MHz to 5765MHz	uW/MHz	0.024	0.022	0.038	PASS	12.5uW/MHz or below
		MHz	5747.500	5751.180	5755.600	----	----
	5765MHz to 26GHz	uW/MHz	0.027	0.026	0.029	PASS	2.5uW/MHz or below
		MHz	23889.000	23821.200	23917.300	----	----

Measurement Channel		Ch.	100	120	144		
Measurement Frequency		MHz	5500	5600	5720	Result	Limit
Secondary Emitted Radio Wave Strength (Rx1)	30MHz to 1000MHz	nW	0.008	0.007	0.008	PASS	4nW or below
		MHz	170.070	803.770	902.370	----	----
	1GHz to 10GHz	nW	0.148	0.153	0.149	PASS	20nW or below
		MHz	7333.750	7466.350	5502.250	----	----
	10GHz to 26GHz	nW	0.260	0.257	0.262	PASS	20nW or below
		MHz	23954.800	23863.010	24014.000	----	----
Burst Length of Transmitted Signals			Good	Good	Good	PASS	8ms or below
Carrier Sensing Function			Good	Good	Good	PASS	100mV/m
Transmission Power Control Function			Good	Good	Good	PASS	3dB
Interference Prevention Function			Good			PASS	

8. Test Results

Test results_802.11n20

Environment of test room	Date of test	2022.10.04 ~ 2022.11.07	
	Temperature	20 ~ 23	°C
	Humidity	45 ~ 49	%

Peak Antenna Gain	2.175	dBi
Declaration Output Power	1.800	mW/MHz
	2.553	dBm/MHz
E.I.R.P	2.970	mW/MHz
	4.728	dBm/MHz
Input Power Voltage	3.850	VDC

Tested Circuit Insertion	Tx1	0.000	dB
Transmission Time	ON TIME (1sec or less)	1.888	msec
	OFF TIME (0.1sec or more)	0.037	msec
	Ratio	98.078%	
Packet Type (Mode)		OFDM	mode

Test category ;	5GHz Band Low-Power Data Communication System 802.11 n (HT 20)
The reason why the tests are performed only at rated voltage :	When the input voltage to receiver RF circuit varies below $\pm 1\%$ as the input voltage from the external power supply to the receiver varies $\pm 10\%$ (excluding power supply).

Measurement Channel	Ch.	100	120	144		
Measurement Frequency	MHz	5500	5600	5720	Result	Limit
Frequency Measurements(Tx1)	MHz	5499.988	5600.082	5719.980	----	----
Frequency Toleranc(Tx1)	ppm	-2.182	14.642	-3.497	PASS	$\pm 20 \times 10^{-6}$ (20ppm)
Occupied Bandwidth(Tx1)	MHz	17.892	17.894	17.900	PASS	20MHz or below
RF Output Power(Tx1)	mW/MHz	1.212	1.203	1.234	PASS	10mW/MHz or below
RF Output Power (Tx1)	mW/MHz	1.212	1.203	1.234	PASS	10mW/MHz or below
RF Output Power Tolerance (Tx1)	%	-32.678	-33.142	-31.427	PASS	+50% to -50%

Measurement Channel		Ch.	100	120	144		
Measurement Frequency		MHz	5500	5600	5720	Result	Limit
Adjacent Channel Leakage Power (Tx1)	cf	dB	11.994	12.195	12.013	----	----
	cf -20MHz	dB	-32.114	-31.925	-31.843	PASS	-25dBc or below
	cf +20MHz	dB	-31.564	-31.715	-31.573	PASS	-25dBc or below
	cf -40MHz	dB	-55.324	-54.765	-54.583	PASS	-40dBc or below
	cf +40MHz	dB	-54.224	-54.285	-53.983	PASS	-40dBc or below

Measurement Channel		Ch.	100	120	144		
Measurement Frequency		MHz	5500	5600	5720	Result	Limit
Unwanted (Spurious) Emission Strength(Tx1)	30MHz to 5460MHz	uW/MHz	0.011	0.004	0.003	PASS	2.5uW/MHz or below
		MHz	5459.457	5444.253	3108.267	----	----
	5460MHz to 5470MHz	uW/MHz	0.022	0.004	0.003	PASS	12.5uW/MHz or below
		MHz	5467.110	5463.250	5469.740	----	----
	5745MHz to 5765MHz	uW/MHz	0.024	0.020	0.052	PASS	12.5uW/MHz or below
		MHz	5752.900	5759.720	5761.940	----	----
	5765MHz to 26GHz	uW/MHz	0.028	0.026	0.027	PASS	2.5uW/MHz or below
		MHz	24530.400	23966.900	23979.000	----	----

Measurement Channel		Ch.	100	120	144		
Measurement Frequency		MHz	5500	5600	5720	Result	Limit
Secondary Emitted Radio Wave Strength (Rx1)	30MHz to 1000MHz	nW	0.007	0.007	0.006	PASS	4nW or below
		MHz	865.850	860.850	888.790	----	----
	1GHz to 10GHz	nW	0.131	0.165	0.115	PASS	20nW or below
		MHz	7333.430	7466.460	5907.700	----	----
	10GHz to 26GHz	nW	0.231	0.260	0.233	PASS	20nW or below
		MHz	23992.400	23749.600	23915.200	----	----
Burst Length of Transmitted Signals			Good	Good	Good	PASS	8ms or below
Carrier Sensing Function			Good	Good	Good	PASS	100mV/m
Transmission Power Control Function			Good	Good	Good	PASS	3dB
Interference Prevention Function			Good			PASS	

8. Test Results

Test results_802.11n40

Environment of test room	Date of test	2022.10.04 ~ 2022.11.07
	Temperature	20 ~ 23 °C
	Humidity	45 ~ 49 %

Peak Antenna Gain	2.175	dBi
Declaration Output Power	0.700	mW/MHz
	-1.549	dBm/MHz
E.I.R.P	1.155	mW/MHz
	0.626	dBm/MHz
Input Power Voltage	3.850	VDC

Tested Circuit Insertion	Tx1	0.000	dB
Transmission Time	ON TIME (1sec or less)	0.928	msec
	OFF TIME (0.1sec or more)	0.036	msec
	Ratio	96.266%	
Packet Type (Mode)		OFDM	mode

Test category ;	5GHz Band Low-Power Data Communication System 802.11 n (HT 40)
The reason why the tests are performed only at rated voltage :	When the input voltage to receiver RF circuit varies below $\pm 1\%$ as the input voltage from the external power supply to the receiver varies $\pm 10\%$ (excluding power supply).

Measurement Channel	Ch.	102	118	142		
Measurement Frequency	MHz	5510	5590	5710	Result	Limit
Frequency Measurements(Tx1)	MHz	5510.024	5589.940	5710.006	----	----
Frequency Toleranc(Tx1)	ppm	4.356	-10.733	1.051	PASS	$\pm 20 \times 10^{-6}$ (20ppm)
Occupied Bandwidth(Tx1)	MHz	36.225	36.165	36.149	PASS	40MHz or below
RF Output Power(Tx1)	mW/MHz	0.622	0.605	0.707	PASS	5mW/MHz or below
RF Output Power (Tx1)	mW/MHz	0.622	0.605	0.707	PASS	5mW/MHz or below
RF Output Power Tolerance (Tx1)	%	-11.196	-13.616	1.026	PASS	+50% to -50%

Measurement Channel		Ch.	102	118	142		
Measurement Frequency		MHz	5510	5590	5710	Result	Limit
Adjacent Channel Leakage Power (Tx1)	cf	dB	12.220	12.307	12.106	----	----
	cf -40MHz	dB	-39.710	-39.317	-39.436	PASS	-25dBc or below
	cf +40MHz	dB	-38.700	-39.317	-39.216	PASS	-25dBc or below
	cf -80MHz	dB	-53.550	-53.107	-52.886	PASS	-40dBc or below
	cf +80MHz	dB	-52.130	-52.287	-52.016	PASS	-40dBc or below

Measurement Channel		Ch.	102	118	142		
Measurement Frequency		MHz	5510	5590	5710	Result	Limit
Unwanted (Spurious) Emission Strength(Tx1)	30 to 5460MHz	uW/MHz	0.010	0.006	0.006	PASS	12.5uW/MHz or below
		MHz	5440.995	5366.061	5443.167	----	----
	5460 to 5470MHz	uW/MHz	0.028	0.005	0.003	PASS	50uW/MHz or below
		MHz	5469.520	5467.420	5460.830	----	----
	5770 to 26GHz	uW/MHz	0.023	0.027	0.042	PASS	12.5uW/MHz or below
		MHz	23985.100	23964.900	5892.900	----	----
	Out-Band Leakage Power (Tx1)	uW/MHz	0.010	0.006	0.006	PASS	12.5uW/MHz or below
		MHz	5440.995	5366.061	5443.167	----	----
		uW/MHz	0.028	0.005	0.003	PASS	50uW/MHz or below
		MHz	5469.520	5467.420	5460.830	----	----
		uW/MHz	0.023	0.027	0.042	PASS	12.5uW/MHz or below
		MHz	23985.100	23964.900	5892.900	----	----

Measurement Channel		Ch.	102	118	142		
Measurement Frequency		MHz	5510	5590	5710	Result	Limit
Secondary Emitted Radio Wave Strength (Rx1)	30MHz to 1000MHz	nW	0.008	0.007	0.007	PASS	4nW or below
		MHz	822.640	782.820	910.320	----	----
	1GHz to 10GHz	nW	0.157	0.167	0.152	PASS	20nW or below
		MHz	7346.510	7453.450	7560.120	----	----
	10GHz to 26GHz	nW	0.347	0.251	0.239	PASS	20nW or below
		MHz	23908.000	24002.300	24019.200	----	----
Burst Length of Transmitted Signals			Good	Good	Good	PASS	8ms or below
Carrier Sensing Function			Good	Good	Good	PASS	100mV/m
Transmission Power Control Function			Good	Good	Good	PASS	3dB
Interference Prevention Function			Good			PASS	

8. Test Results

Test results_802.11ac20

Environment of test room	Date of test	2022.10.04 ~ 2022.11.07	
	Temperature	20 ~ 23	°C
	Humidity	45 ~ 49	%

Peak Antenna Gain	2.175	dBi
Declaration Output Power	1.800	mW/MHz
	2.553	dBm/MHz
E.I.R.P	2.970	mW/MHz
	4.728	dBm/MHz
Input Power Voltage	3.850	VDC

Tested Circuit Insertion	Tx1	0.000	dB
Transmission Time	ON TIME (1sec or less)	1.900	msec
	OFF TIME (0.1sec or more)	0.037	msec
	Ratio	98.090%	
Packet Type (Mode)		OFDM	mode

Test category ;	5GHz Band Low-Power Data Communication System 802.11 ac (VHT 20)
The reason why the tests are performed only at rated voltage :	When the input voltage to receiver RF circuit varies below $\pm 1\%$ as the input voltage from the external power supply to the receiver varies $\pm 10\%$ (excluding power supply).

Measurement Channel	Ch.	100	120	144		
Measurement Frequency	MHz	5500	5600	5720	Result	Limit
Frequency Measurements(Tx1)	MHz	5499.974	5599.986	5720.031	----	----
Frequency Toleranc(Tx1)	ppm	-4.727	-2.500	5.420	PASS	$\pm 20 \times 10^{-6}$ (20ppm)
Occupied Bandwidth(Tx1)	MHz	17.899	17.835	17.868	PASS	20MHz or below
RF Output Power(Tx1)	mW/MHz	1.226	1.198	1.229	PASS	10mW/MHz or below
RF Output Power (Tx1)	mW/MHz	1.226	1.198	1.229	PASS	10mW/MHz or below
RF Output Power Tolerance (Tx1)	%	-31.907	-33.457	-31.750	PASS	+50% to -50%

Measurement Channel		Ch.	100	120	144		
Measurement Frequency		MHz	5500	5600	5720	Result	Limit
Adjacent Channel Leakage Power (Tx1)	cf	dB	12.015	12.239	12.059	----	----
	cf -20MHz	dB	-32.135	-31.889	-31.889	PASS	-25dBc or below
	cf +20MHz	dB	-31.515	-31.789	-31.619	PASS	-25dBc or below
	cf -40MHz	dB	-55.335	-54.869	-54.509	PASS	-40dBc or below
	cf +40MHz	dB	-54.245	-54.459	-53.869	PASS	-40dBc or below

Measurement Channel		Ch.	100	120	144		
Measurement Frequency		MHz	5500	5600	5720	Result	Limit
Unwanted (Spurious) Emission Strength(Tx1)	30MHz to 5460MHz	uW/MHz	0.010	0.004	0.003	PASS	2.5uW/MHz or below
		MHz	5459.457	5452.398	3154.422	----	----
	5460MHz to 5470MHz	uW/MHz	0.022	0.004	0.003	PASS	12.5uW/MHz or below
		MHz	5467.790	5462.720	5462.350	----	----
	5745MHz to 5765MHz	uW/MHz	0.021	0.024	0.053	PASS	12.5uW/MHz or below
		MHz	5758.780	5760.840	5746.420	----	----
	5765MHz to 26GHz	uW/MHz	0.028	0.027	0.027	PASS	2.5uW/MHz or below
		MHz	23889.500	24041.800	23930.500	----	----

Measurement Channel		Ch.	100	120	144		
Measurement Frequency		MHz	5500	5600	5720	Result	Limit
Secondary Emitted Radio Wave Strength (Rx1)	30MHz to 1000MHz	nW	0.009	0.008	0.007	PASS	4nW or below
		MHz	938.110	753.570	675.340	----	----
	1GHz to 10GHz	nW	0.106	0.157	0.130	PASS	20nW or below
		MHz	9388.900	7466.740	6248.350	----	----
	10GHz to 26GHz	nW	0.310	0.236	0.299	PASS	20nW or below
		MHz	24004.800	23772.800	23857.500	----	----
Burst Length of Transmitted Signals			Good	Good	Good	PASS	8ms or below
Carrier Sensing Function			Good	Good	Good	PASS	100mV/m
Transmission Power Control Function			Good	Good	Good	PASS	3dB
Interference Prevention Function			Good			PASS	

8. Test Results

Test results_802.11ac40

Environment of test room	Date of test	2022.10.04 ~ 2022.11.07
	Temperature	20 ~ 23 °C
	Humidity	45 ~ 49 %

Peak Antenna Gain	2.175	dBi
Declaration Output Power	0.700	mW/MHz
	-1.549	dBm/MHz
E.I.R.P	1.155	mW/MHz
	0.626	dBm/MHz
Input Power Voltage	3.850	VDC

Tested Circuit Insertion	Tx1	0.000	dB
Transmission Time	ON TIME (1sec or less)	0.936	msec
	OFF TIME (0.1sec or more)	0.036	msec
	Ratio	96.296%	
Packet Type (Mode)		OFDM	mode

Test category ;	5GHz Band Low-Power Data Communication System 802.11 ac (VHT 40)
The reason why the tests are performed only at rated voltage :	When the input voltage to receiver RF circuit varies below $\pm 1\%$ as the input voltage from the external power supply to the receiver varies $\pm 10\%$ (excluding power supply).

Measurement Channel	Ch.	102	118	142		
Measurement Frequency	MHz	5510	5590	5710	Result	Limit
Frequency Measurements(Tx1)	MHz	5510.106	5590.014	5710.008	----	----
Frequency Toleranc(Tx1)	ppm	19.238	2.504	1.401	PASS	$\pm 20 \times 10^{-6}$ (20ppm)
Occupied Bandwidth(Tx1)	MHz	36.177	36.187	36.152	PASS	40MHz or below
RF Output Power(Tx1)	mW/MHz	0.640	0.636	0.619	PASS	5mW/MHz or below
RF Output Power (Tx1)	mW/MHz	0.640	0.636	0.619	PASS	5mW/MHz or below
RF Output Power Tolerance (Tx1)	%	-8.527	-9.157	-11.633	PASS	+50% to -50%

Measurement Channel		Ch.	102	118	142		
Measurement Frequency		MHz	5510	5590	5710	Result	Limit
Adjacent Channel Leakage Power (Tx1)	cf	dB	12.494	12.501	12.387	----	----
	cf -40MHz	dB	-39.774	-39.441	-39.537	PASS	-25dBc or below
	cf +40MHz	dB	-38.904	-39.321	-39.177	PASS	-25dBc or below
	cf -80MHz	dB	-53.614	-53.131	-53.127	PASS	-40dBc or below
	cf +80MHz	dB	-52.174	-52.281	-52.147	PASS	-40dBc or below

Measurement Channel		Ch.	102	118	142		
Measurement Frequency		MHz	5510	5590	5710	Result	Limit
Unwanted (Spurious) Emission Strength(Tx1)	30 to 5460MHz	uW/MHz	0.013	0.008	0.007	PASS	12.5uW/MHz or below
		MHz	5452.398	5367.690	5446.968	----	----
	5460 to 5470MHz	uW/MHz	0.020	0.006	0.003	PASS	50uW/MHz or below
		MHz	5468.800	5463.830	5468.100	----	----
	5770 to 26GHz	uW/MHz	0.029	0.028	0.035	PASS	12.5uW/MHz or below
		MHz	23905.200	23903.700	5892.900	----	----
	Out-Band Leakage Power (Tx1)	uW/MHz	0.013	0.008	0.007	PASS	12.5uW/MHz or below
		MHz	5452.398	5367.690	5446.968	----	----
		uW/MHz	0.020	0.006	0.003	PASS	50uW/MHz or below
		MHz	5468.800	5463.830	5468.100	----	----
		uW/MHz	0.029	0.028	0.035	PASS	12.5uW/MHz or below
		MHz	23905.200	23903.700	5892.900	----	----

Measurement Channel		Ch.	102	118	142		
Measurement Frequency		MHz	5510	5590	5710	Result	Limit
Secondary Emitted Radio Wave Strength (Rx1)	30MHz to 1000MHz	nW	0.008	0.007	0.009	PASS	4nW or below
		MHz	186.120	389.000	545.410	----	----
	1GHz to 10GHz	nW	0.116	0.177	0.120	PASS	20nW or below
		MHz	9415.450	7453.200	6202.450	----	----
	10GHz to 26GHz	nW	0.236	0.265	0.239	PASS	20nW or below
		MHz	24436.000	24586.400	23998.400	----	----
Burst Length of Transmitted Signals			Good	Good	Good	PASS	8ms or below
Carrier Sensing Function			Good	Good	Good	PASS	100mV/m
Transmission Power Control Function			Good	Good	Good	PASS	3dB
Interference Prevention Function			Good			PASS	

8. Test Results

Test results_802.11ac80

Environment of test room	Date of test	2022.10.04 ~ 2022.11.07
	Temperature	20 ~ 23 °C
	Humidity	45 ~ 49 %

Peak Antenna Gain	2.175	dBi
Declaration Output Power	0.300	mW/MHz
	-5.229	dBm/MHz
E.I.R.P	0.495	mW/MHz
	-3.054	dBm/MHz
Input Power Voltage	3.850	VDC

Tested Circuit Insertion	Tx1	0.000	dB
Transmission Time	ON TIME (1sec or less)	0.456	msec
	OFF TIME (0.1sec or more)	0.036	msec
	Ratio	92.683%	
Packet Type (Mode)		OFDM	mode

Test category ;	5GHz Band Low-Power Data Communication System 802.11 ac (VHT 80)
The reason why the tests are performed only at rated voltage :	When the input voltage to receiver RF circuit varies below $\pm 1\%$ as the input voltage from the external power supply to the receiver varies $\pm 10\%$ (excluding power supply).

Measurement Channel	Ch.	106	122	138		
Measurement Frequency	MHz	5530	5610	5690	Result	Limit
Frequency Measurements(Tx1)	MHz	5530.096	5610.092	5690.040	----	----
Frequency Toleranc(Tx1)	ppm	17.360	16.399	7.030	PASS	$\pm 20 \times 10^{-6}$ (20ppm)
Occupied Bandwidth(Tx1)	MHz	75.588	75.611	75.574	PASS	80MHz or below
RF Output Power(Tx1)	mW/MHz	0.261	0.284	0.299	PASS	2.5mW/MHz or below
RF Output Power (Tx1)	mW/MHz	0.261	0.284	0.299	PASS	2.5mW/MHz or below
RF Output Power Tolerance (Tx1)	%	-12.928	-5.403	-0.487	PASS	+50% to -50%

Measurement Channel		Ch.	106	122	138		
Measurement Frequency		MHz	5530	5610	5690	Result	Limit
Unwanted (Spurious) Emission Strength(Tx1)	30MHz to 5460MHz	uW/MHz	0.017	0.004	0.004	PASS	12.5uW/MHz or below
		MHz	5451.312	5417.646	3121.299	-----	----
	5770MHz to 26GHz	uW/MHz	0.029	0.036	0.039	PASS	12.5uW/MHz or below
		MHz	24624.900	23930.500	5770.500	-----	----
Adjacent Channel Leakage Power (Tx1)	cf	dB	11.739	12.156	12.112	-----	----
	cf -80MHz	dB	-39.709	-39.136	-39.412	PASS	-25dBc or below
	cf +80MHz	dB	-37.859	-38.076	-38.112	PASS	-25dBc or below

Measurement Channel		Ch.	106	122	138		
Measurement Frequency		MHz	5530	5610	5690	Result	Limit
Out-Band Leakage Power (Tx1)	5460 to 5469.5MHz	uW/MHz	0.030	0.004	0.004	PASS	50uW/MHz or below
		MHz	5469.244	5460.437	5465.548	----	----
	5469.5 to 5470MHz	uW/MHz	0.062	0.024	0.022	PASS	51.2uW/MHz or below
		MHz	5469.552	5469.993	5469.618	----	----
Out-Band Leakage Power (Tx1)	5460 to 5469.5MHz	uW/MHz	0.030	0.004	0.004	PASS	50uW/MHz or below
		MHz	5469.244	5460.437	5465.548	----	----
	5469.5 to 5470MHz	uW/MHz	0.062	0.024	0.022	PASS	51.2uW/MHz or below
		MHz	5469.552	5469.993	5469.618	----	----

Measurement Channel		Ch.	106	122	138		
Measurement Frequency		MHz	5530	5610	5690	Result	Limit
Secondary Emitted Radio Wave Strength (Rx1)	30MHz to 1000MHz	nW	0.009	0.008	0.007	PASS	4nW or below
		MHz	861.920	945.920	885.640	----	----
	1GHz to 10GHz	nW	0.148	0.169	0.166	PASS	20nW or below
		MHz	7373.390	7479.970	7587.100	----	----
	10GHz to 26GHz	nW	0.264	0.242	0.254	PASS	20nW or below
		MHz	23915.600	24033.020	23928.140	----	----
Burst Length of Transmitted Signals			Good	Good	Good	PASS	8ms or below
Carrier Sensing Function			Good	Good	Good	PASS	100mV/m
Transmission Power Control Function			Good	Good	Good	PASS	3dB
Interference Prevention Function			Good			PASS	

9. 測定チャート

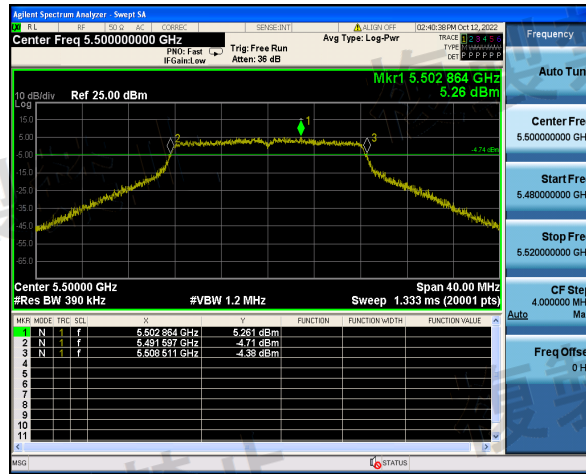
Test chart

9.1 周波数偏差 Frequency tolerance

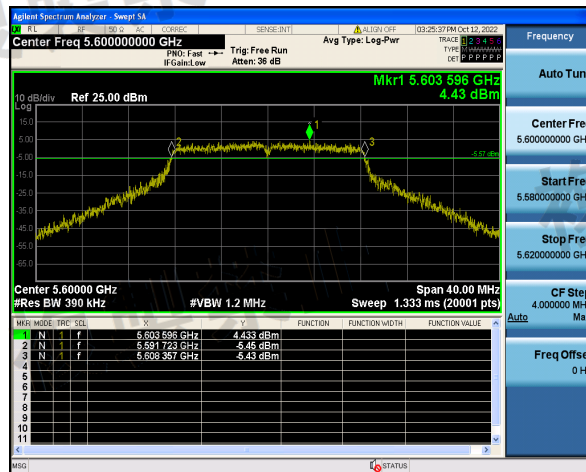
802.11a

Tx1

Ch.100: 5500MHz



Ch.120: 5600MHz



Ch.144: 5720MHz



9.2 占有周波数帯幅 Occupied bandwidth

Tx1

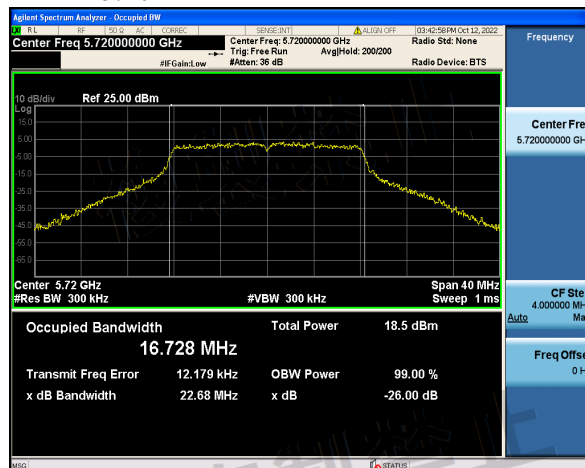
Ch.100: 5500MHz



Ch.120: 5600MHz



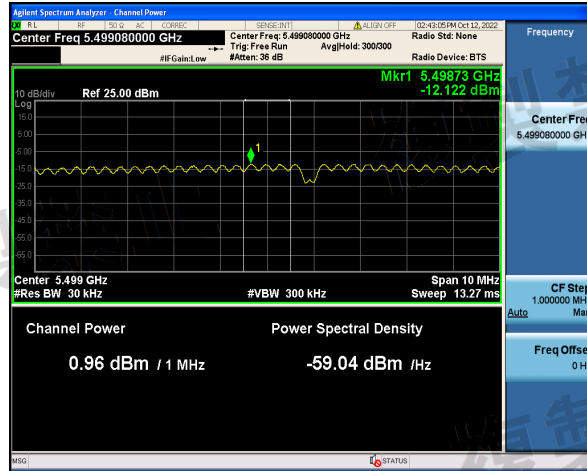
Ch.144: 5720MHz



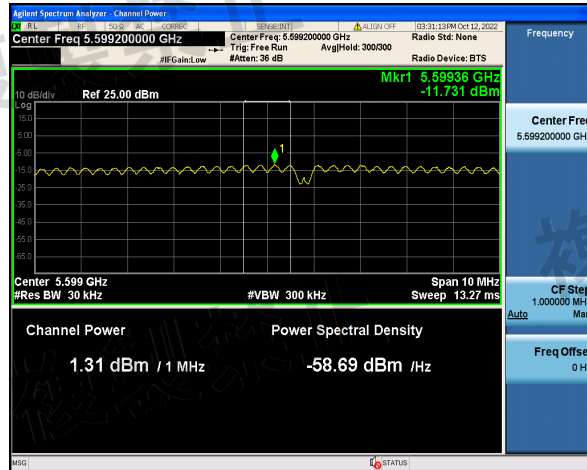
9.3 空中線電力の偏差 RF output power tolerance

Tx1

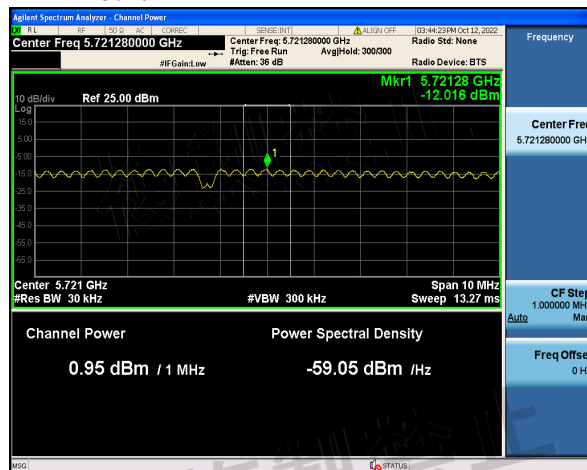
Ch.100: 5500MHz



Ch.120: 5600MHz



Ch.144: 5720MHz

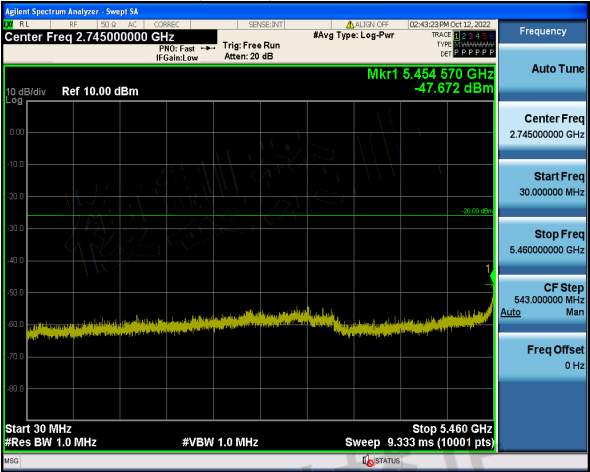


9.5 スプリアス 発射又は不要発射の強度
Unwanted(Spurious) emission strength

1 X1

Ch.100: 5500MHz

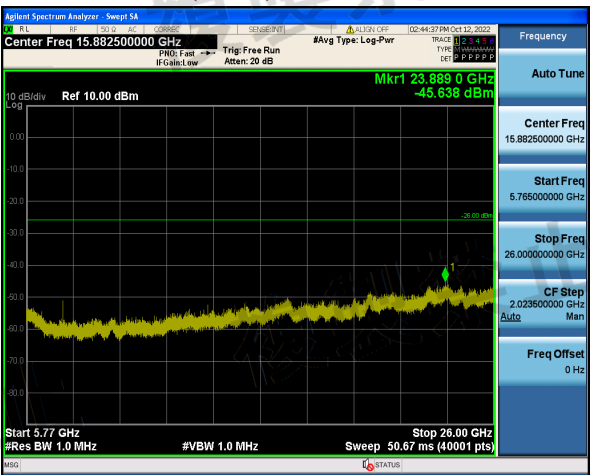
30MHz-5460MHz(Search)



30MHz-5460MHz(Detail)

NA

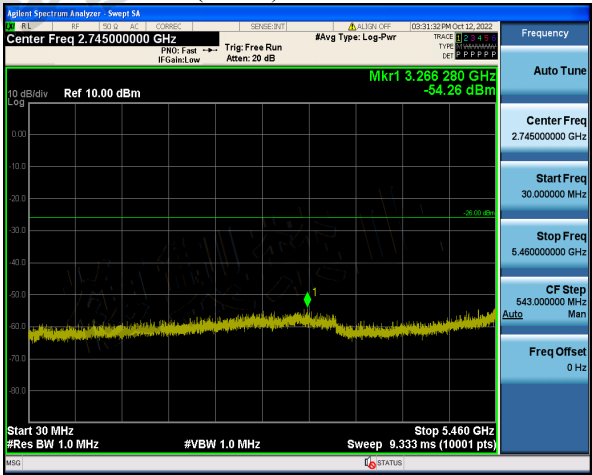
5765MHz-26GHz(Search)



5765MHz-26GHz(Detail)

NA

Ch.120: 5600MHz
30MHz-5460MHz(Search)



30MHz-5460MHz(Detail)

NA

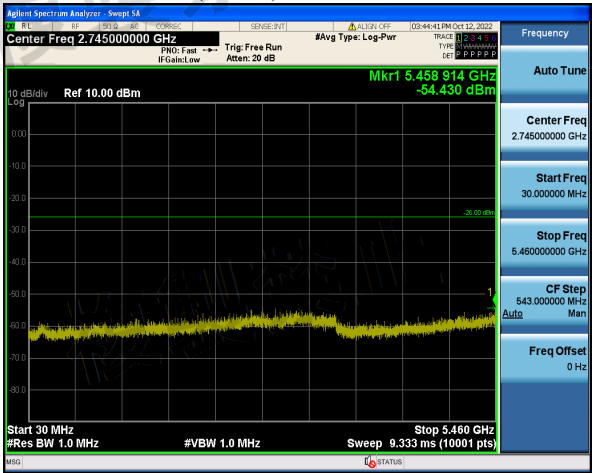
5765MHz-26GHz(Search)



5765MHz-26GHz(Detail)

NA

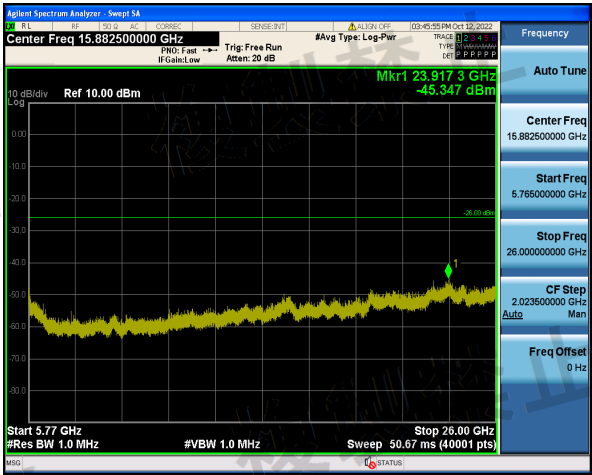
Ch.144: 5720MHz
30MHz-5460MHz(Search)



30MHz-5460MHz(Detail)

NA

5765MHz-26GHz(Search)



5765MHz-26GHz(Detail)

NA

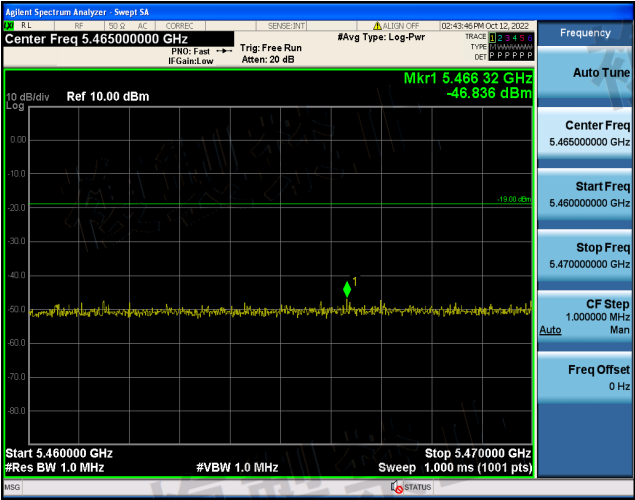
9.6 帶域外漏洩電力
Out-band leakage power

Tx1

Ch.100: 5500MHz

5460-5470MHz(Search)

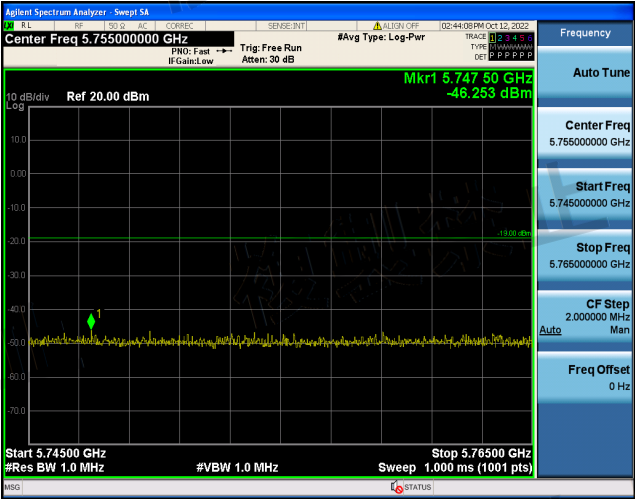
5460-5470MHz(Detail)



NA

5745-5765MHz(Search)

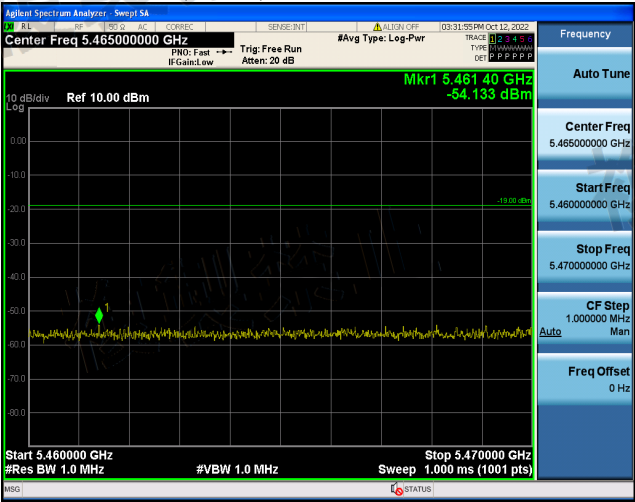
5745-5765MHz(Detail)



NA

Ch.120: 5600MHz
5460-5470MHz(Search)

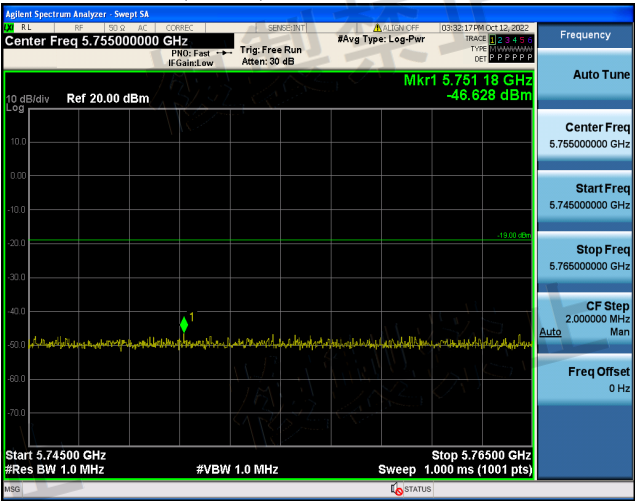
5460-5470MHz(Detail)



NA

5745-5765MHz(Search)

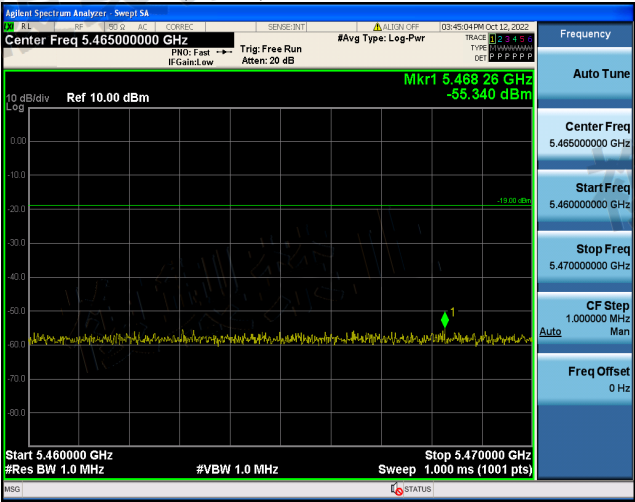
5745-5765MHz(Detail)



NA

Ch.144: 5720MHz
5745-5765MHz(Search)

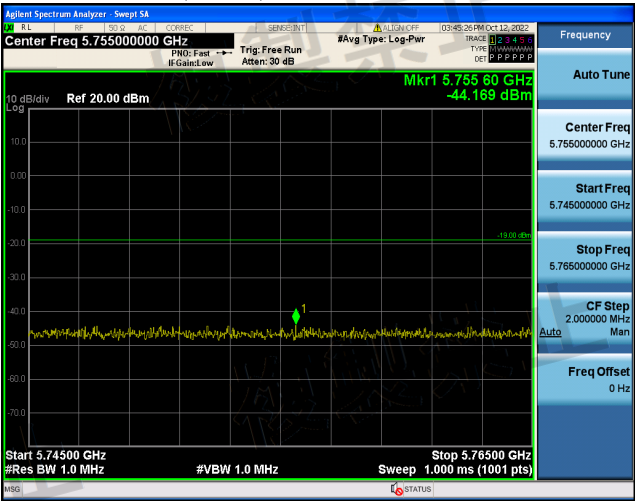
5745-5765MHz(Detail)



NA

5460-5470MHz(Search)

5460-5470MHz(Detail)



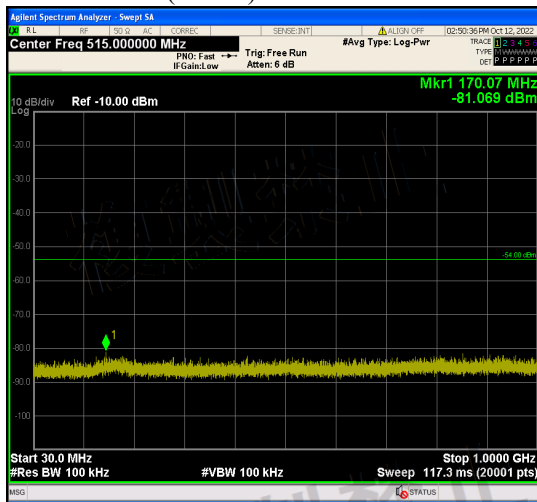
NA

9.7 副次的に発する電波等の限度 Secondary emitted radio wave strength

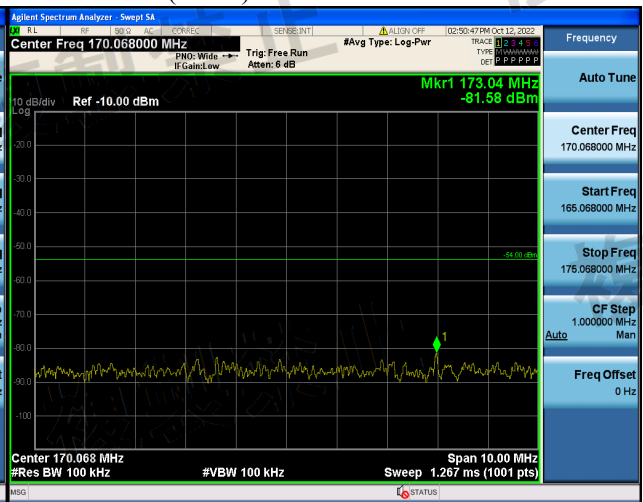
Rx1

Ch.100: 5500MHz

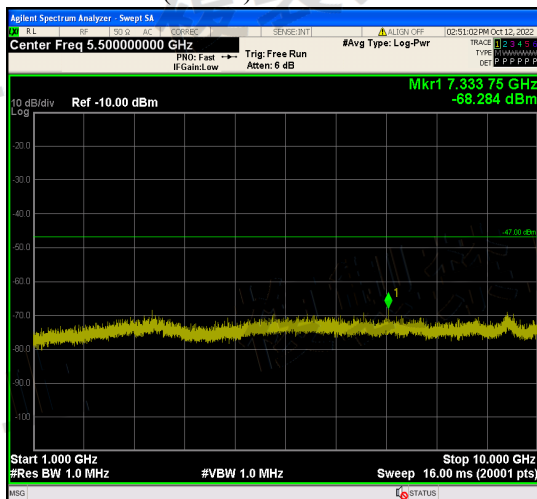
30MHz-1GHz(Search)



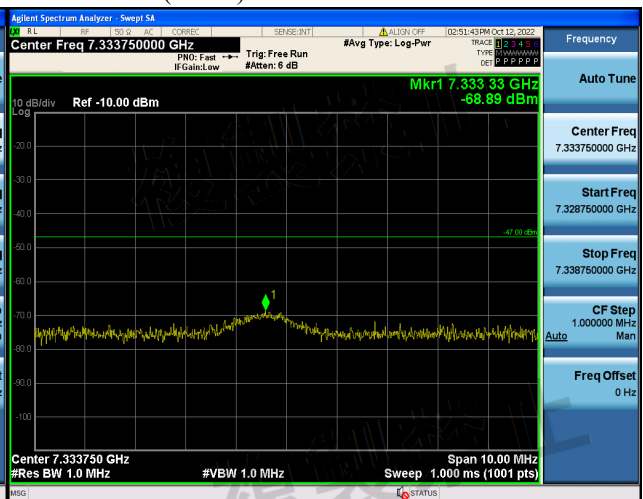
30MHz-1GHz(Detail)



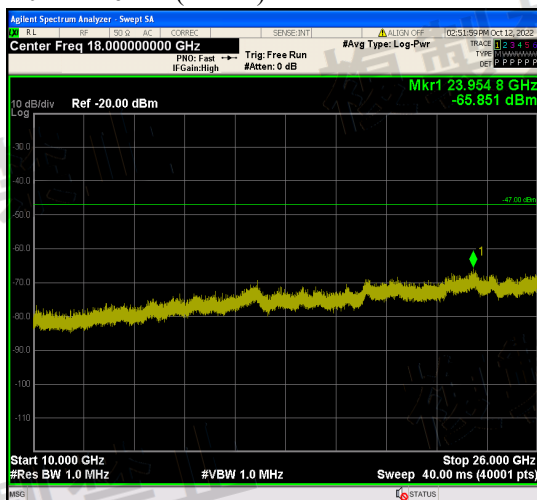
1GHz-10GHz(Search)



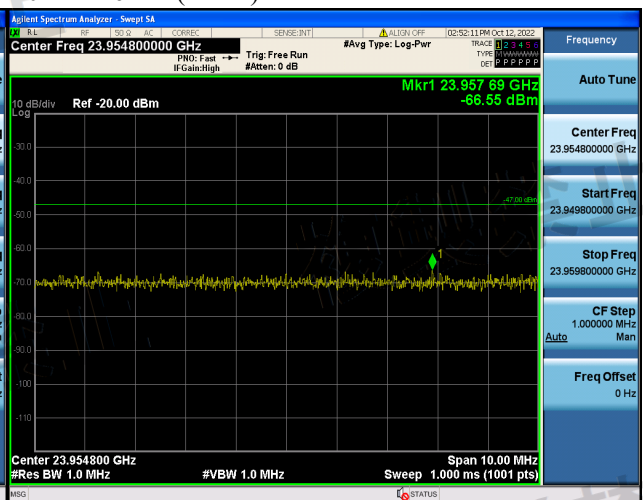
1GHz-10GHz(Detail)

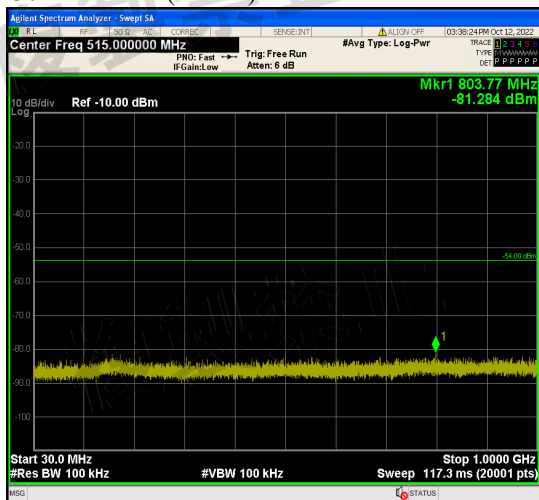


10GHz-26GHz(Search)

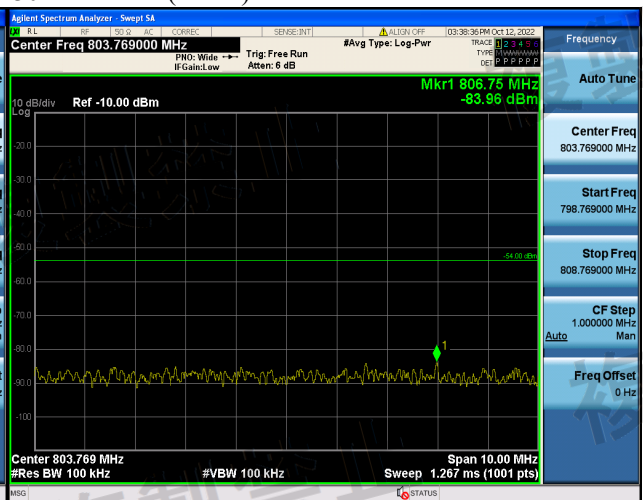


10GHz-26GHz(Detail)

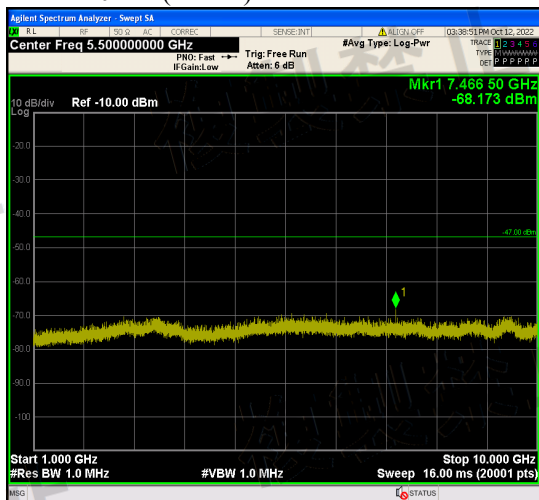


Ch.120: 5600MHz
30MHz-1GHz(Search)

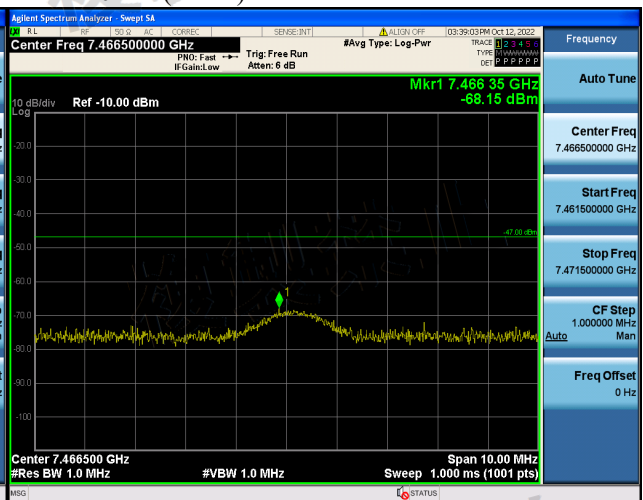
30MHz-1GHz(Detail)



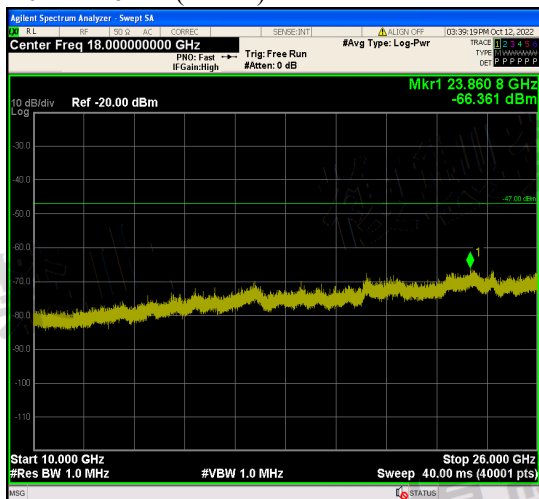
1GHz-10GHz(Search)



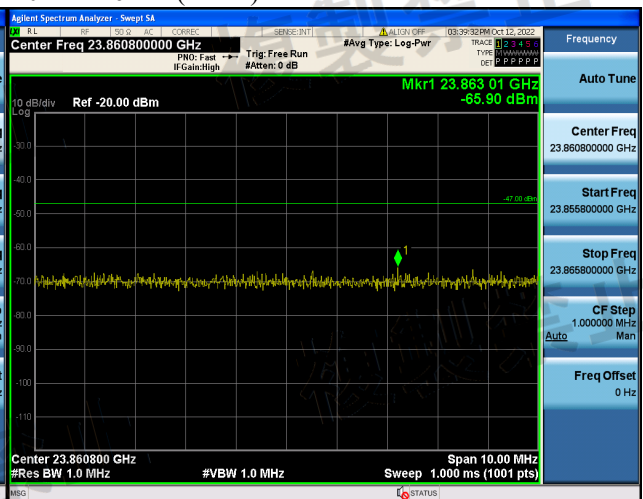
1GHz-10GHz(Detail)

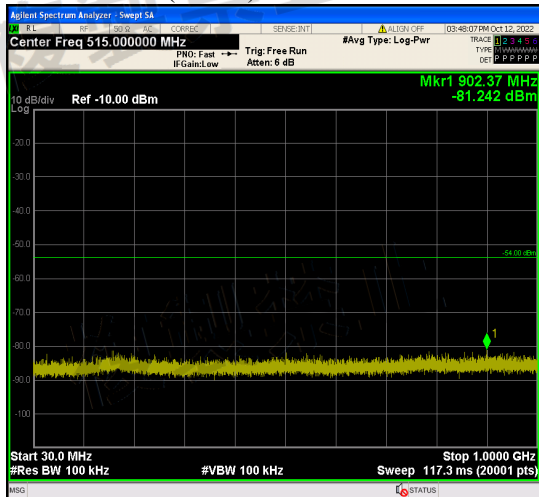


10GHz-26GHz(Search)

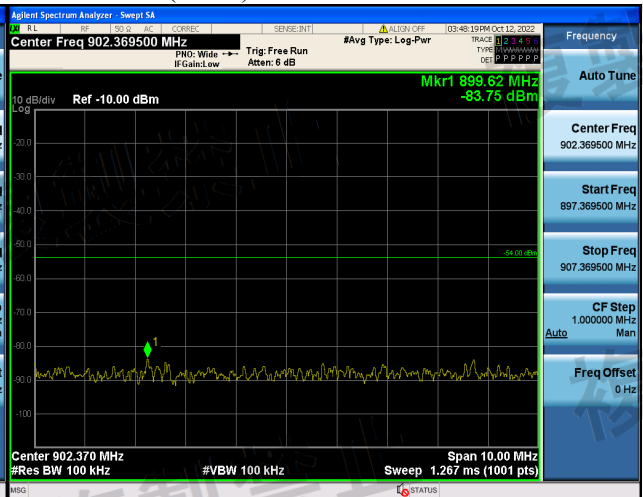


10GHz-26GHz(Detail)

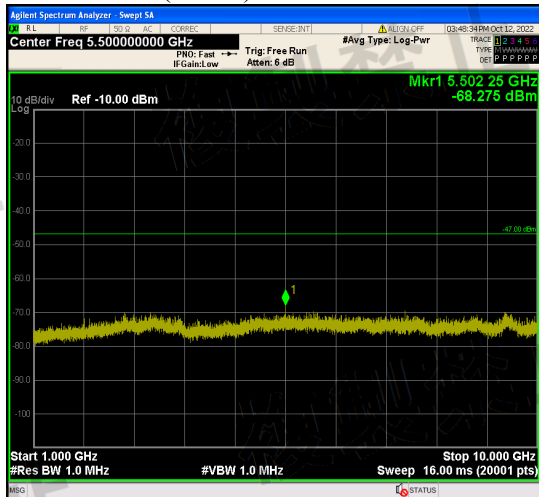


Ch.144: 5720MHz
30MHz-1GHz(Search)

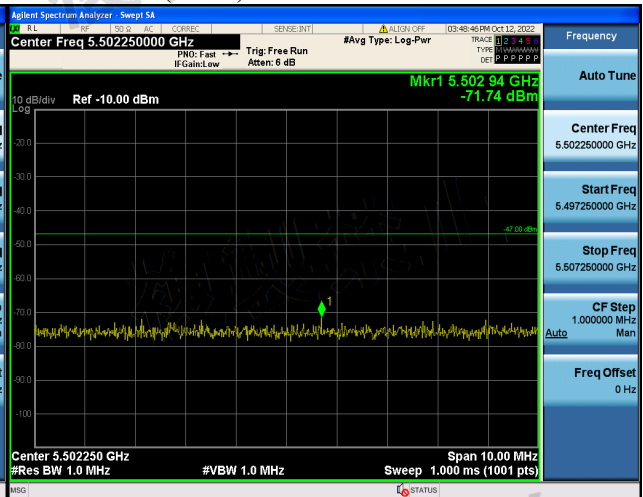
30MHz-1GHz(Detail)



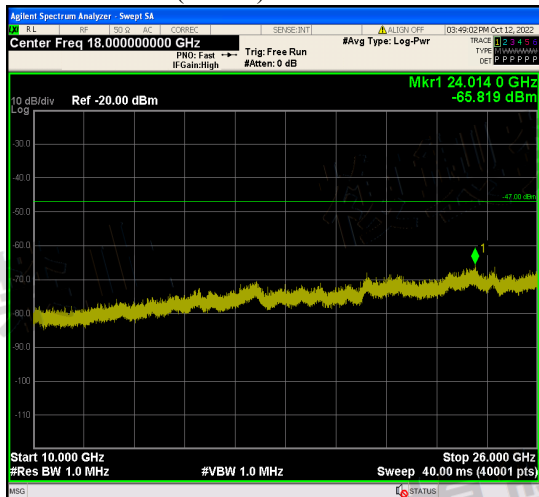
1GHz-10GHz(Search)



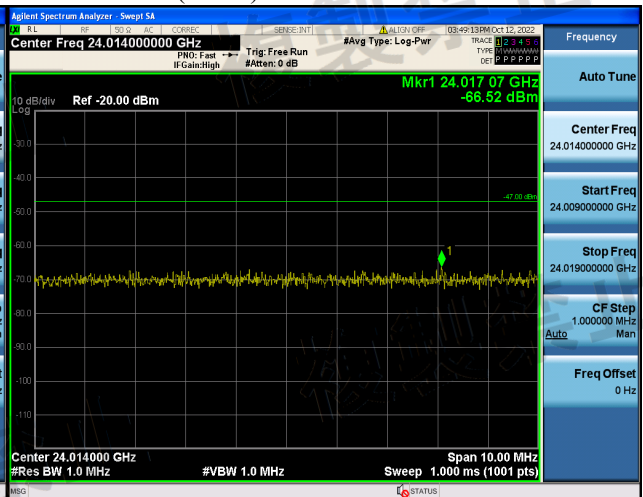
1GHz-10GHz(Detail)



10GHz-26GHz(Search)



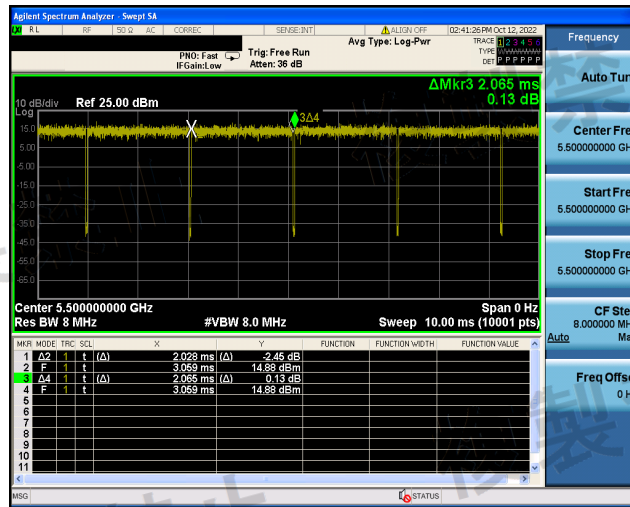
10GHz-26GHz(Detail)



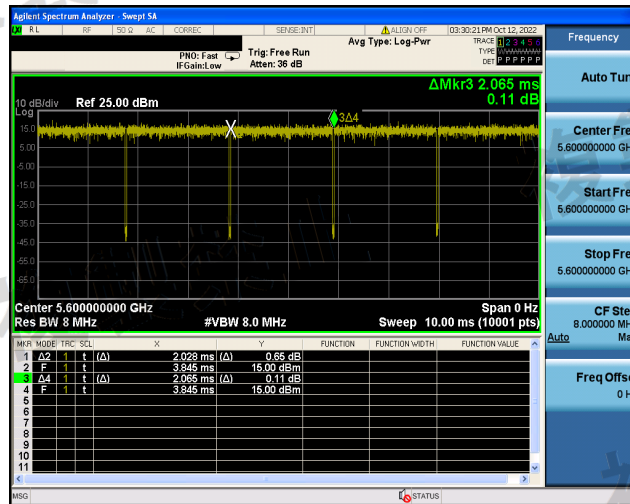
9.8 送信バースト長
Burst length of transmitted signals

Tx1

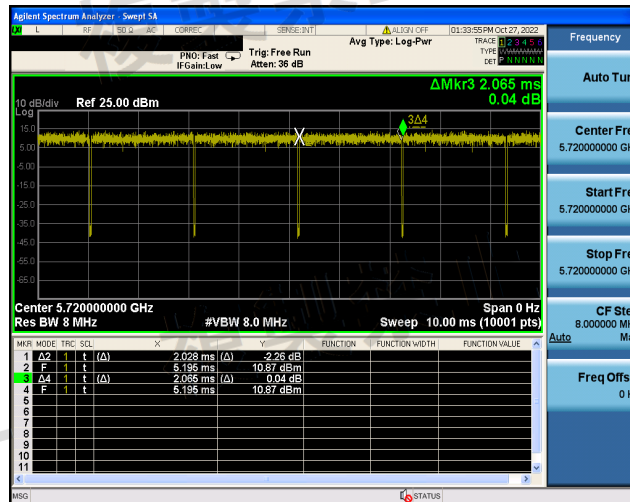
Ch.100: 5500MHz



Ch.120: 5600MHz



Ch.144: 5720MHz



9. 測定チャート

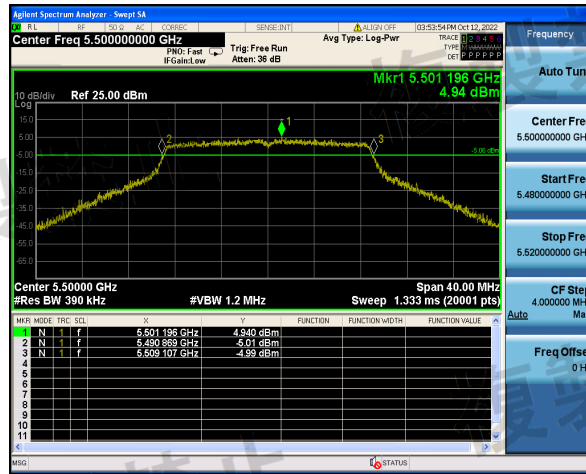
Test chart

9.1 周波数偏差 Frequency tolerance

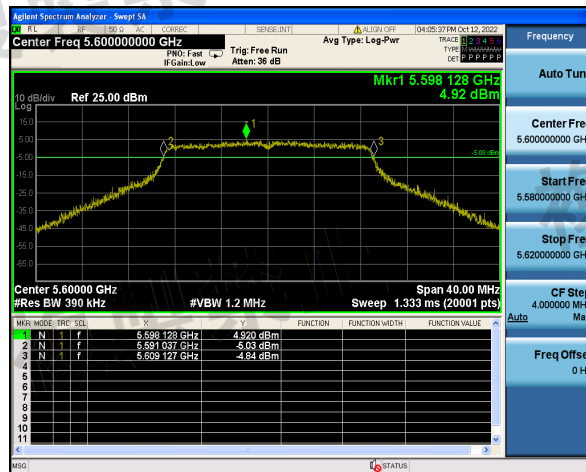
802.11n20

Tx1

Ch.100: 5500MHz



Ch.120: 5600MHz



Ch.144: 5720MHz



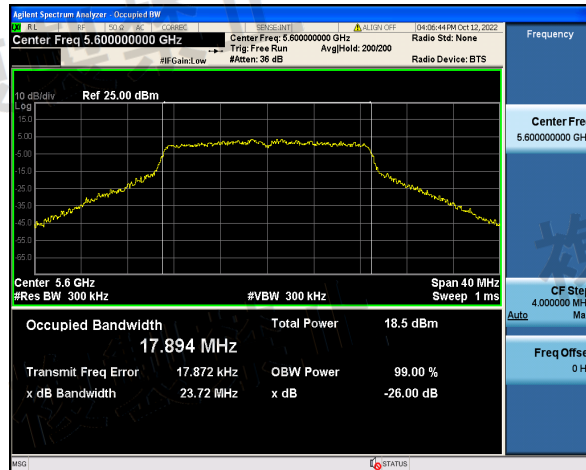
9.2 占有周波数帯幅 Occupied bandwidth

Tx1

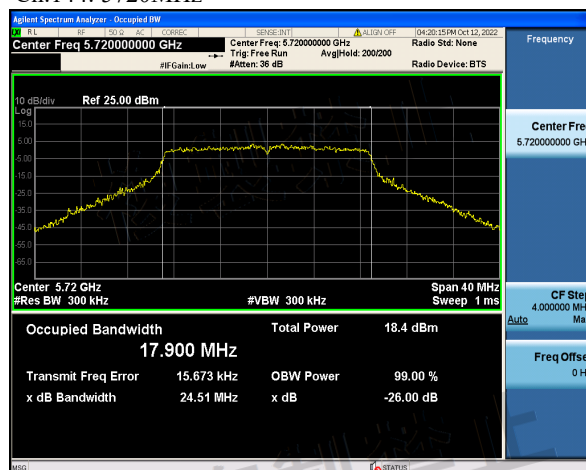
Ch.100: 5500MHz



Ch.120: 5600MHz



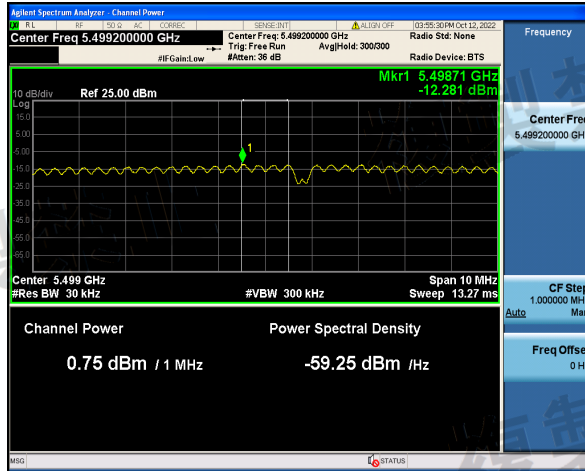
Ch.144: 5720MHz



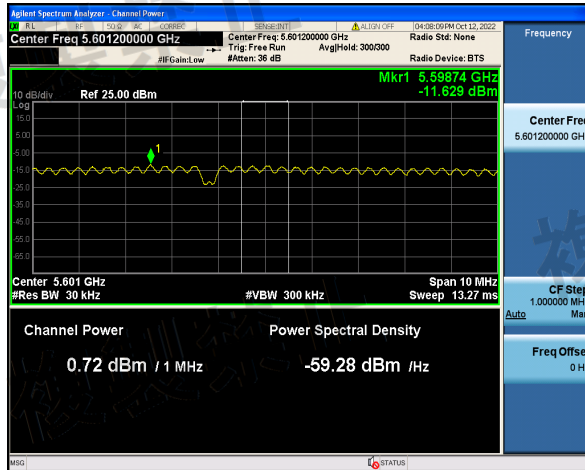
9.3 空中線電力の偏差 RF output power tolerance

Tx1

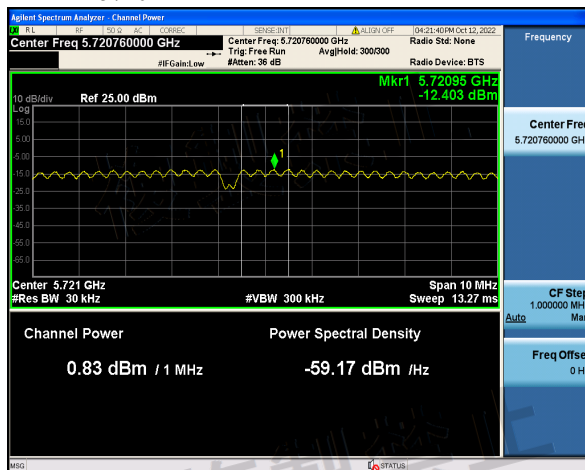
Ch.100: 5500MHz



Ch.120: 5600MHz



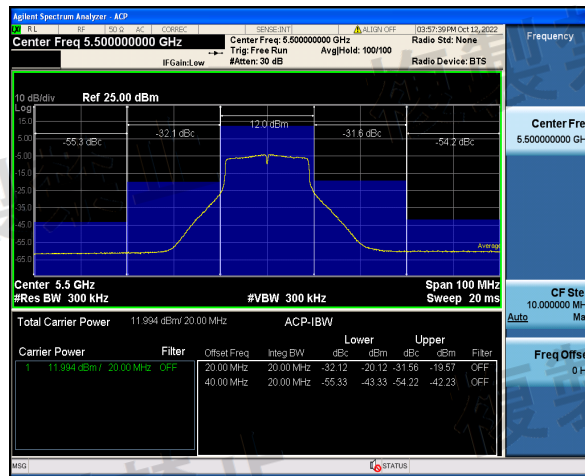
Ch.144: 5720MHz



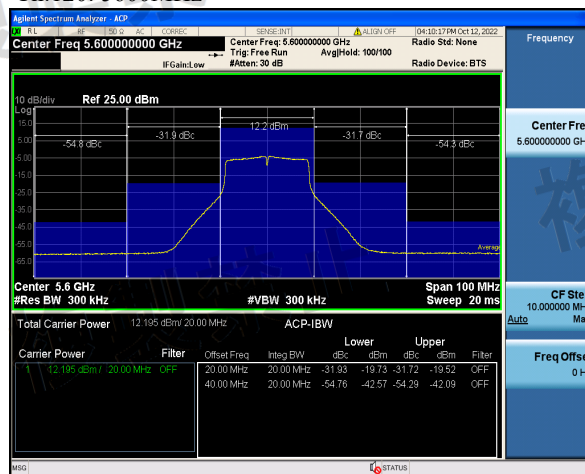
9.4 隣接チャネル漏洩電力 Adjacent Channel Leakage Power

Tx1

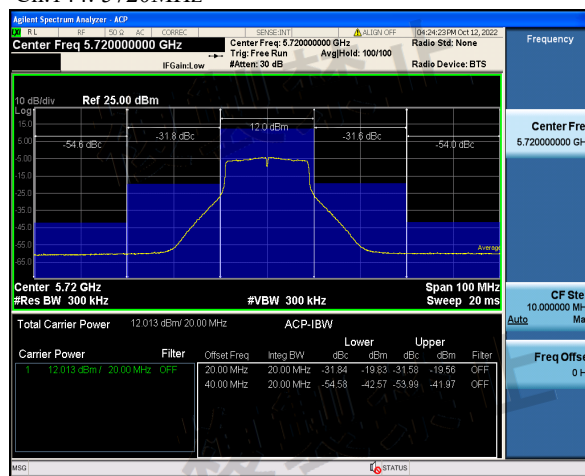
Ch.100: 5500MHz



Ch.120: 5600MHz



Ch.144: 5720MHz

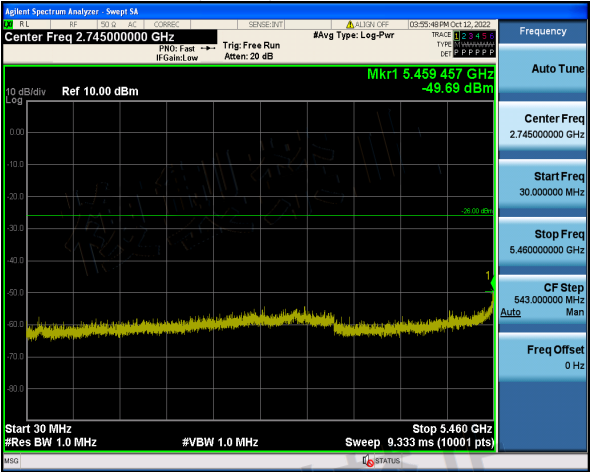


9.5 スプリアス 発射又は不要発射の強度
Unwanted(Spurious) emission strength

1 X1

Ch.100: 5500MHz

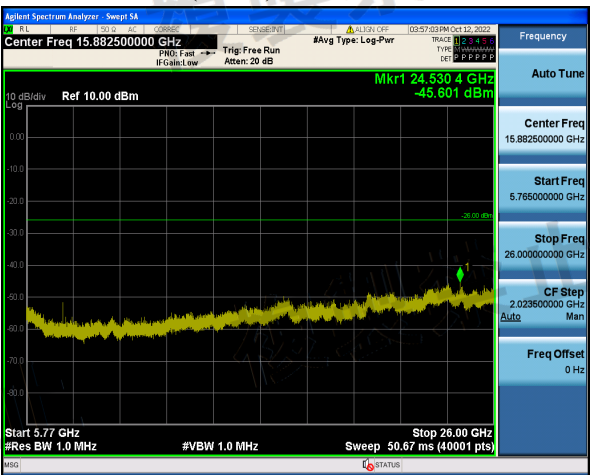
30MHz-5460MHz(Search)



30MHz-5460MHz(Detail)

NA

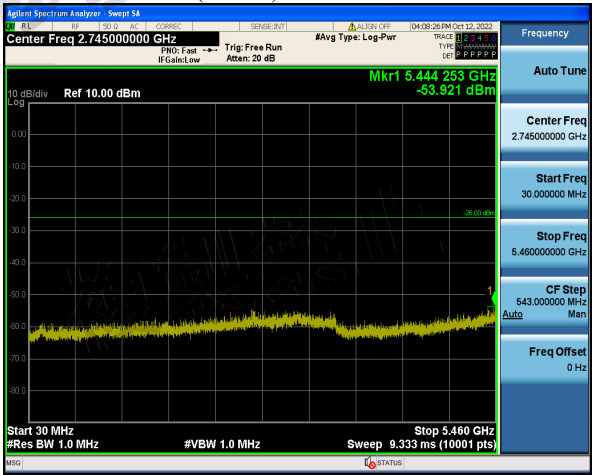
5765MHz-26GHz(Search)



5765MHz-26GHz(Detail)

NA

Ch.120: 5600MHz
30MHz-5460MHz(Search)



30MHz-5460MHz(Detail)

NA

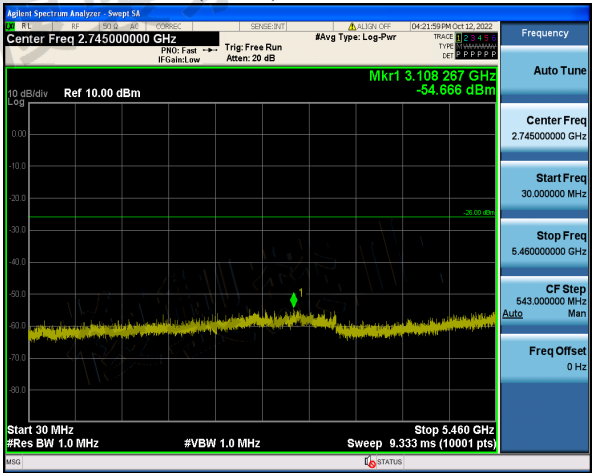
5765MHz-26GHz(Search)



5765MHz-26GHz(Detail)

NA

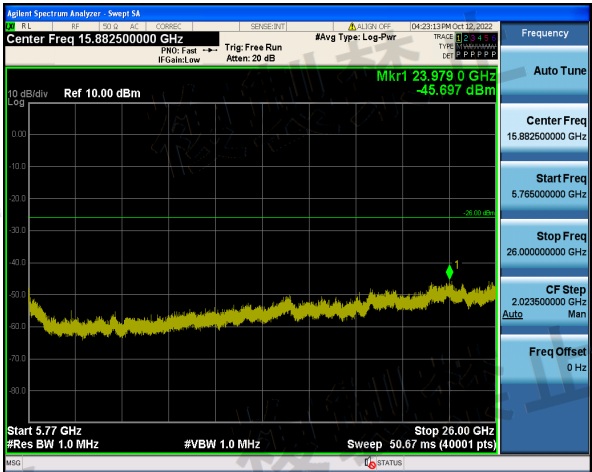
Ch.144: 5720MHz
30MHz-5460MHz(Search)



30MHz-5460MHz(Detail)

NA

5765MHz-26GHz(Search)



5765MHz-26GHz(Detail)

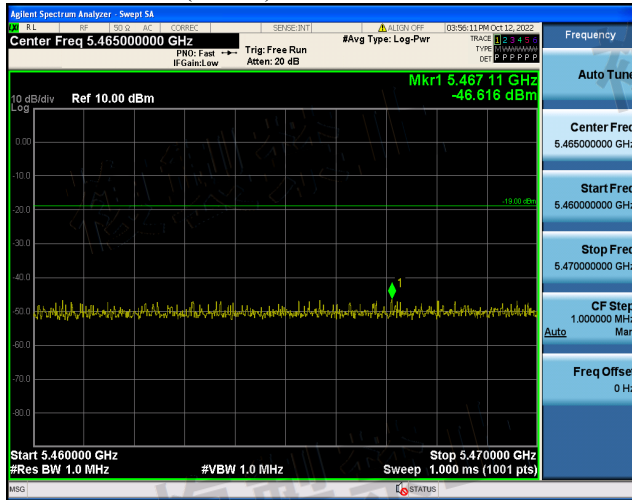
NA

9.6 帶域外漏洩電力 Out-band leakage power

Tx1

Ch.100: 5500MHz

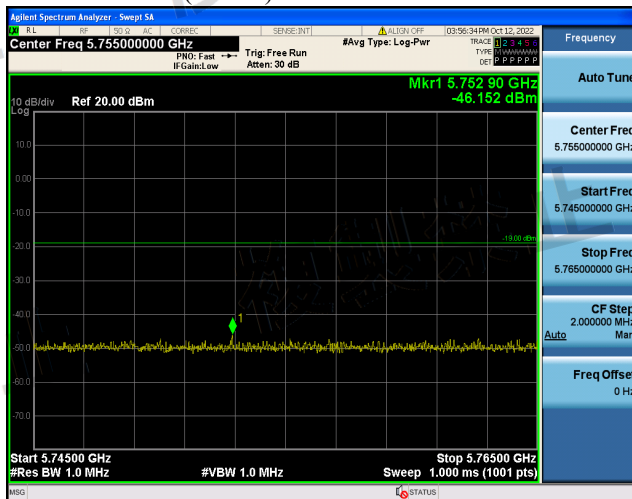
5460-5470MHz(Search)



5460-5470MHz(Detail)

NA

5745-5765MHz(Search)

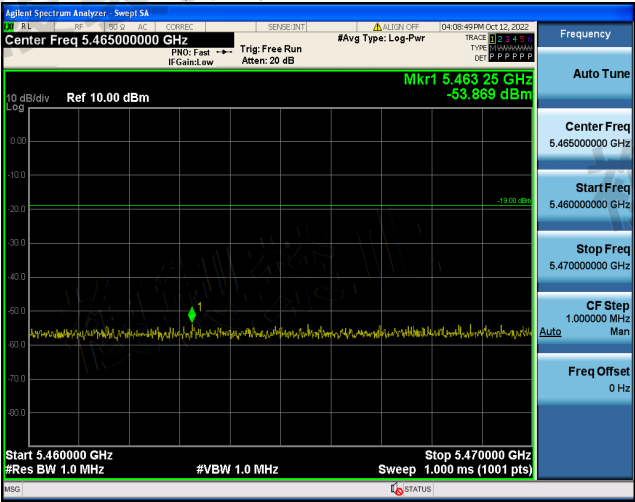


5745-5765MHz(Detail)

NA

Ch.120: 5600MHz
5460-5470MHz(Search)

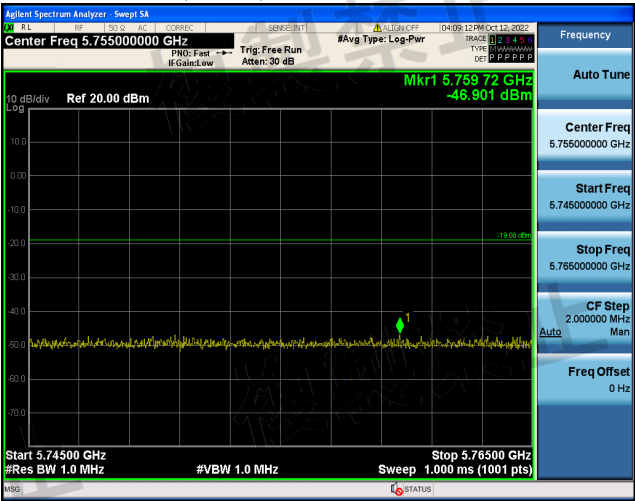
5460-5470MHz(Detail)



NA

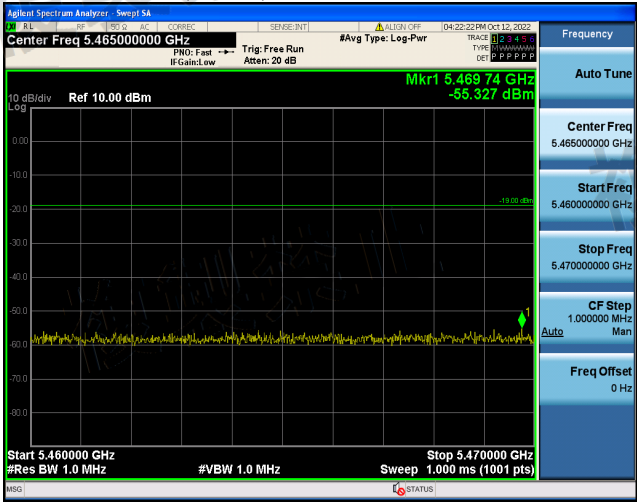
5745-5765MHz(Search)

5745-5765MHz(Detail)



NA

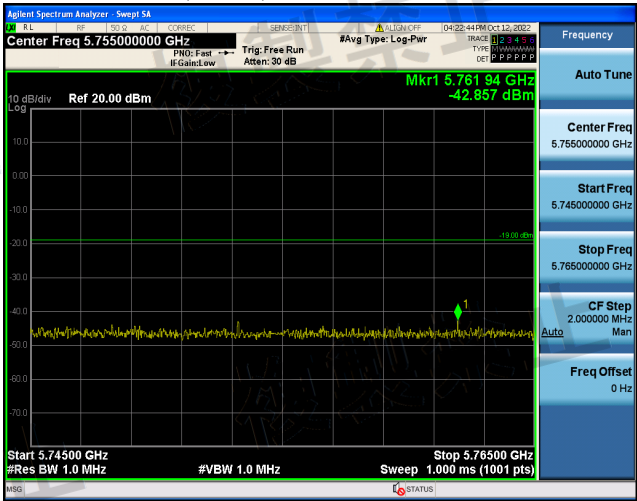
Ch.144: 5720MHz
5745-5765MHz(Search)



5745-5765MHz(Detail)

NA

5460-5470MHz(Search)

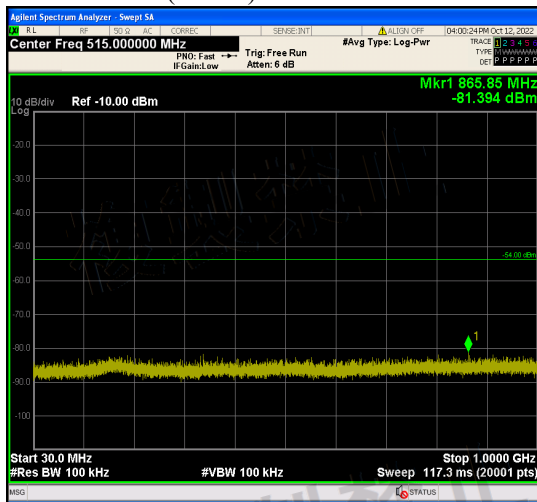


5460-5470MHz(Detail)

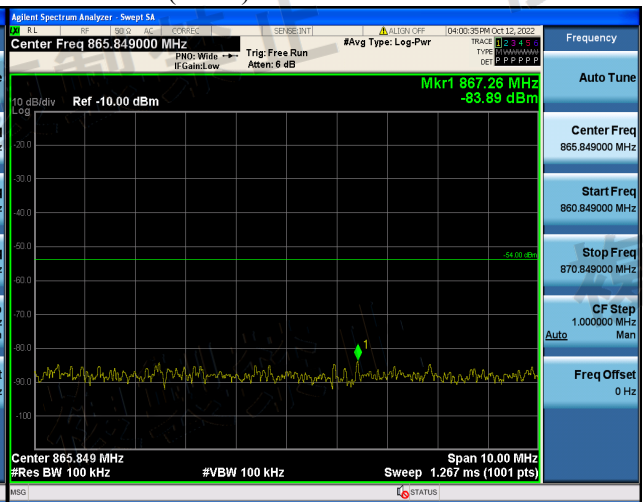
NA

9.7 副次的に発する電波等の限度 Secondary emitted radio wave strength

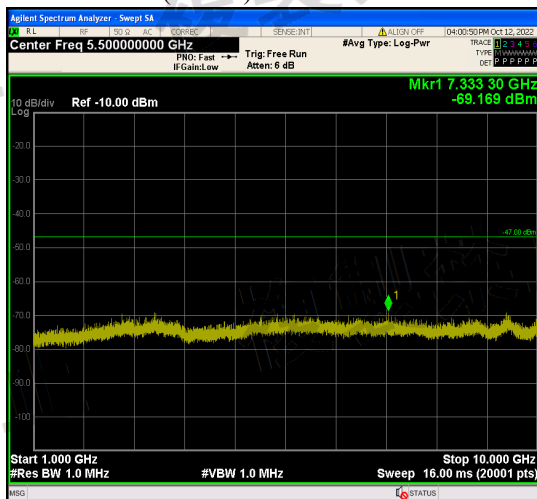
Rx1
Ch.100: 5500MHz
30MHz-1GHz(Search)



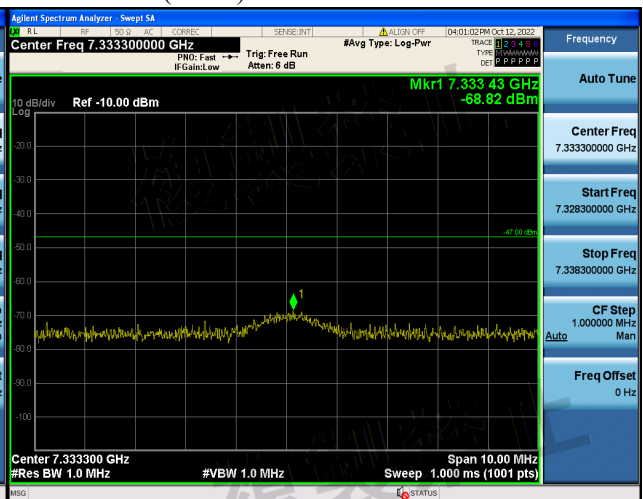
30MHz-1GHz(Detail)



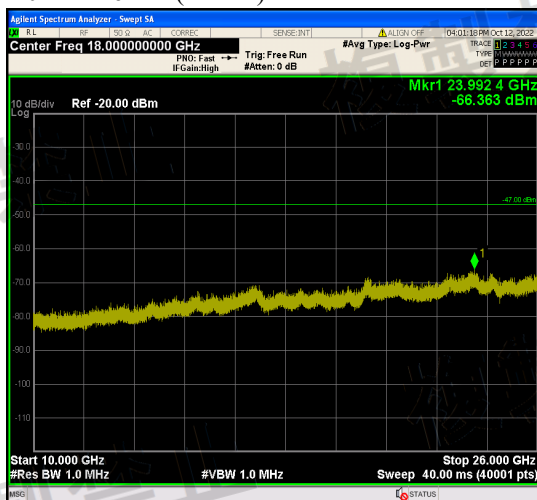
1GHz-10GHz(Search)



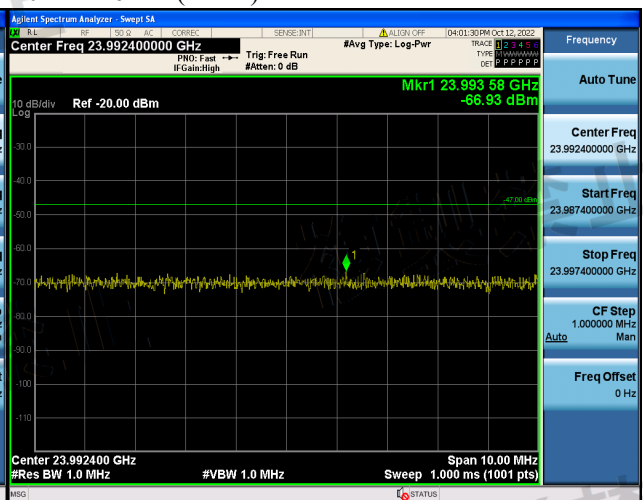
1GHz-10GHz(Detail)

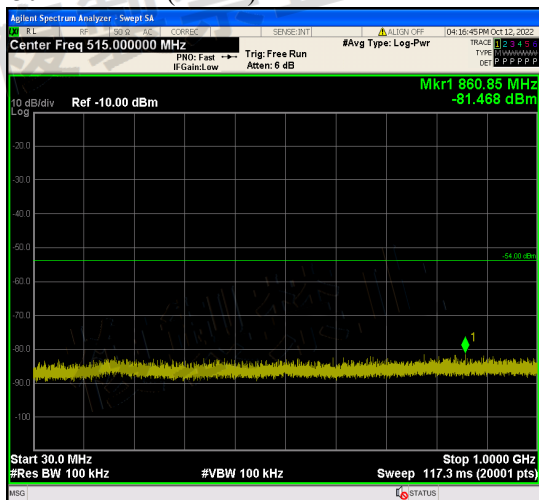


10GHz-26GHz(Search)

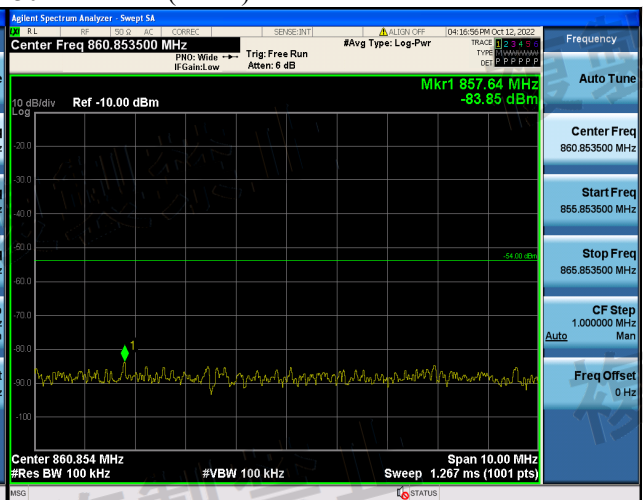


10GHz-26GHz(Detail)

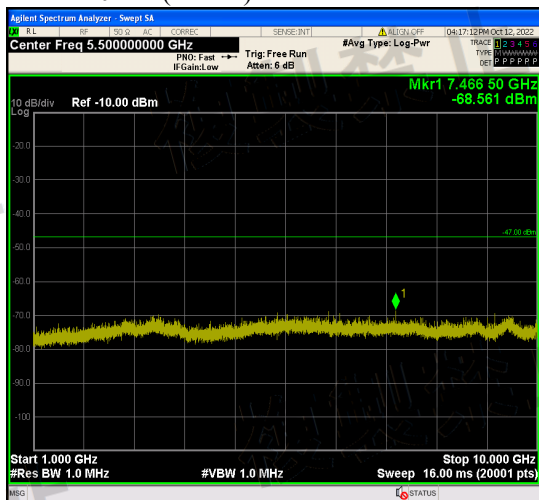


Ch.120: 5600MHz
30MHz-1GHz(Search)

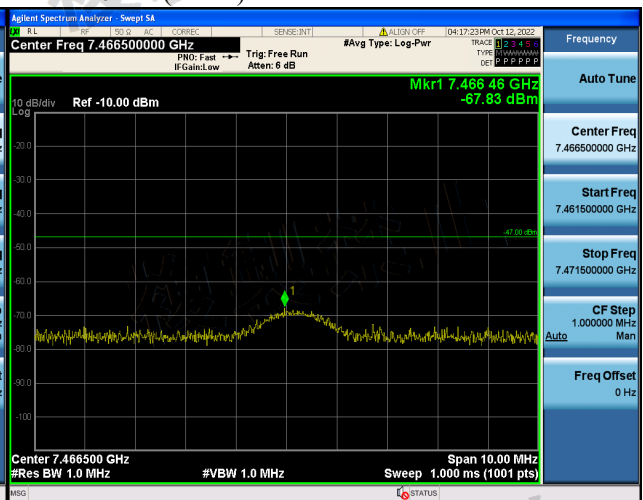
30MHz-1GHz(Detail)



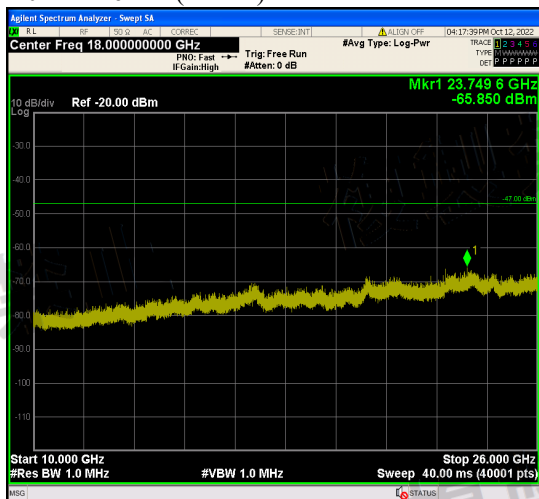
1GHz-10GHz(Search)



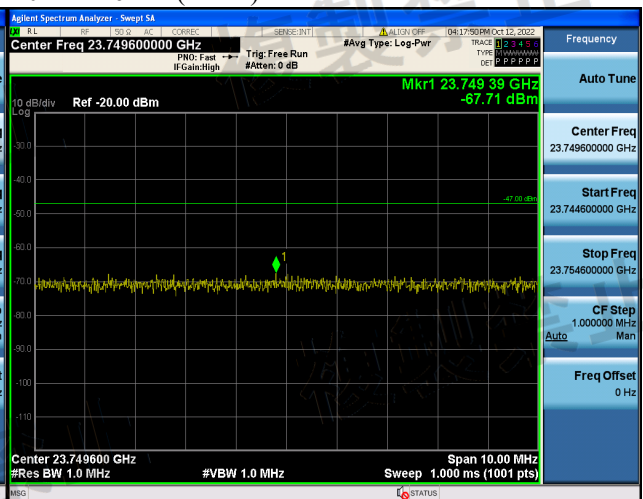
1GHz-10GHz(Detail)

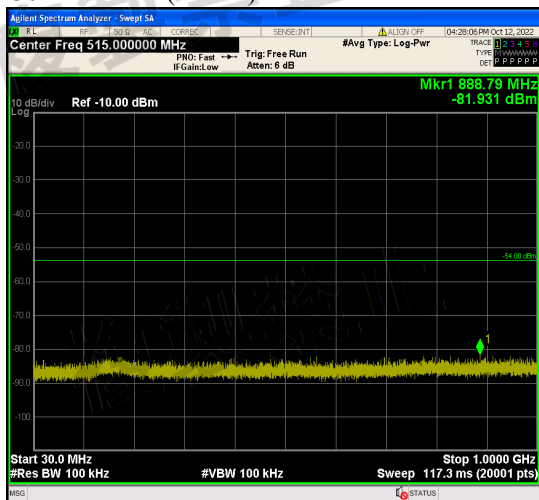


10GHz-26GHz(Search)

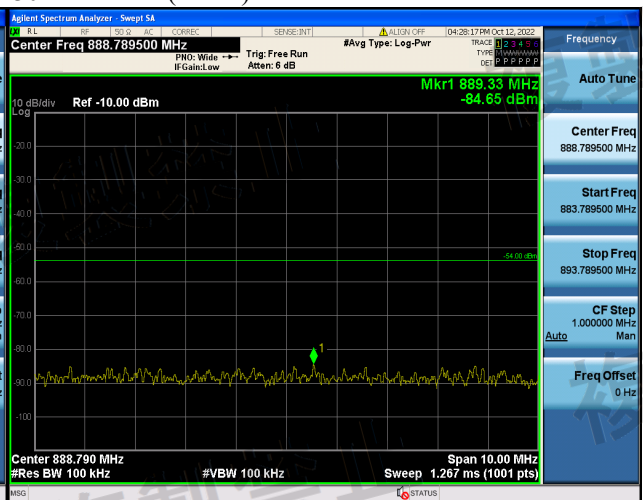


10GHz-26GHz(Detail)

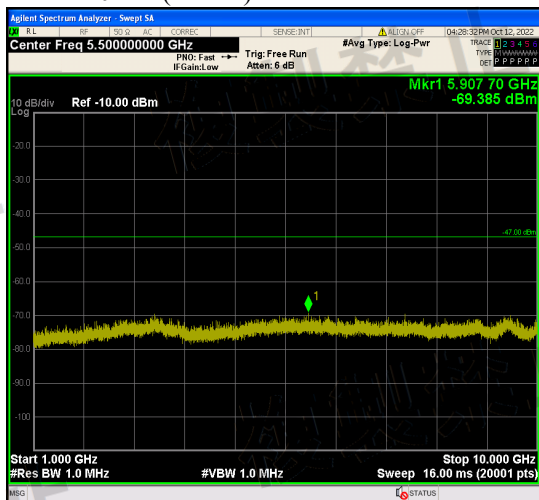


Ch.144: 5720MHz
30MHz-1GHz(Search)

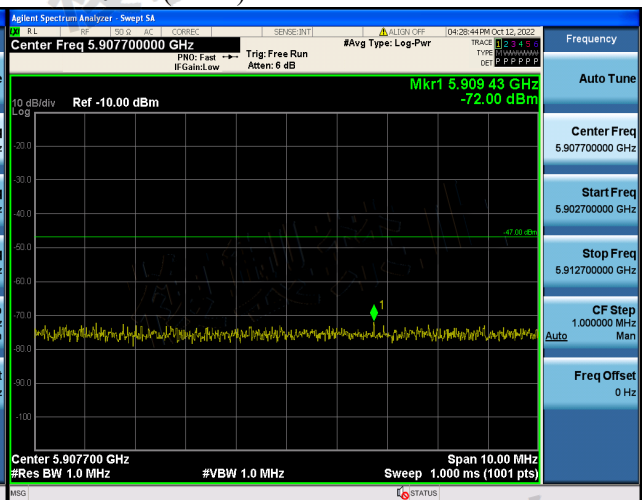
30MHz-1GHz(Detail)



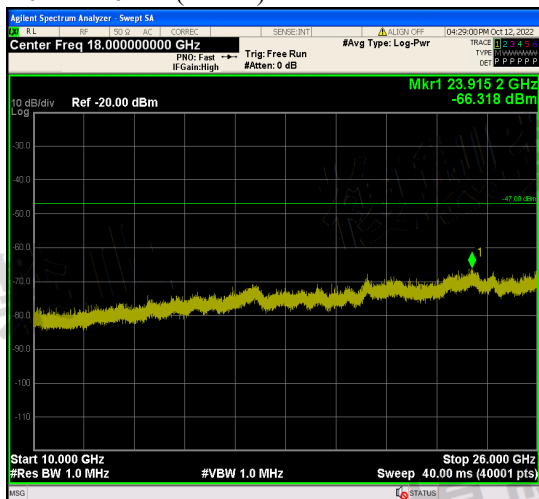
1GHz-10GHz(Search)



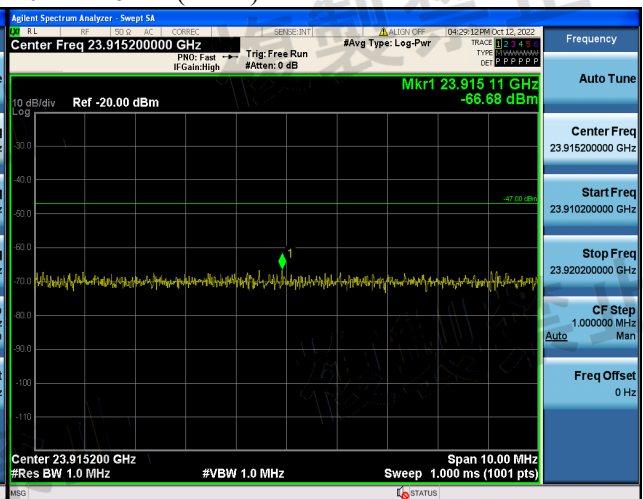
1GHz-10GHz(Detail)



10GHz-26GHz(Search)



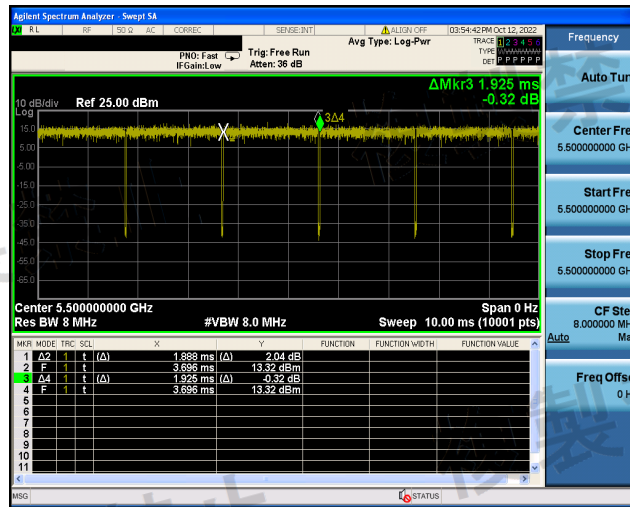
10GHz-26GHz(Detail)



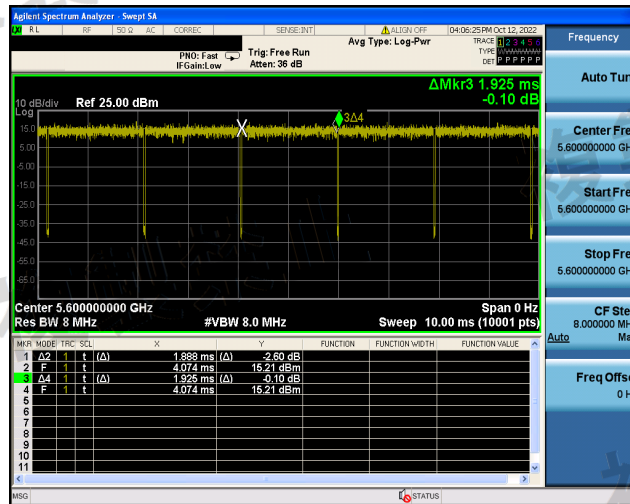
9.8 送信バースト長
Burst length of transmitted signals

Tx1

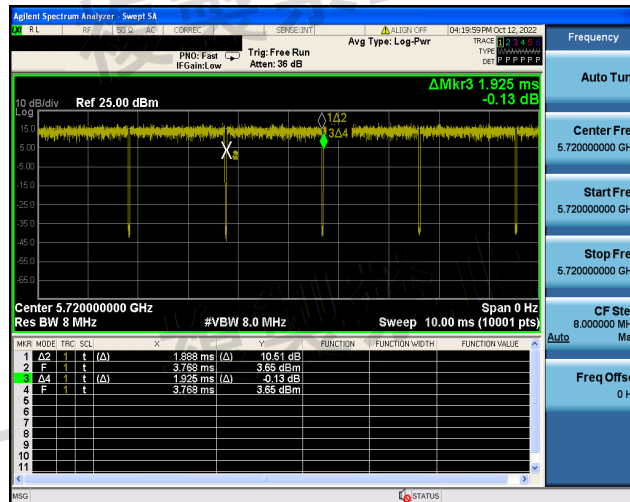
Ch.100: 5500MHz



Ch.120: 5600MHz



Ch.144: 5720MHz



9. 測定チャート

Test chart

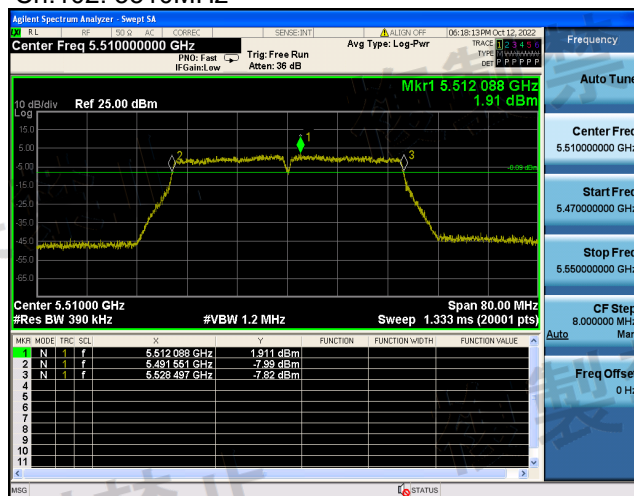
9.1 周波数偏差

Frequency tolerance

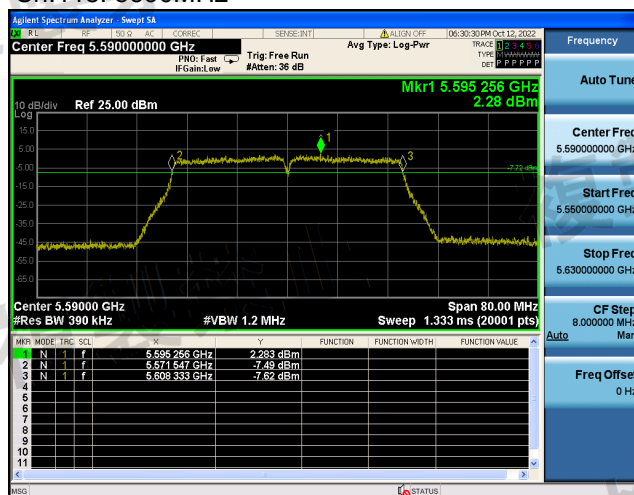
802.11n40

Tx1

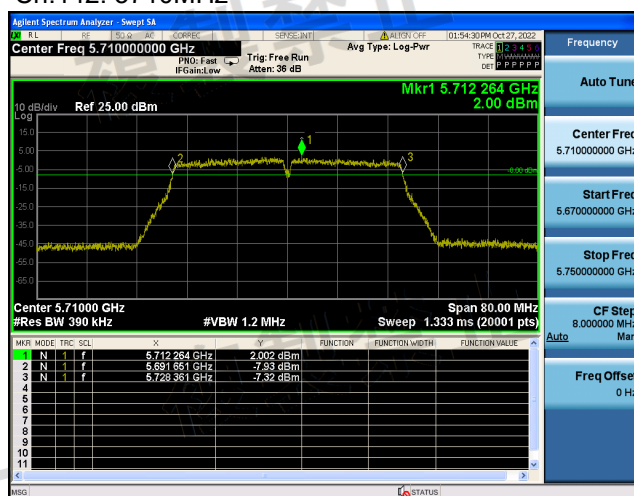
Ch.102: 5510MHz



Ch.118: 5590MHz



Ch.142: 5710MHz

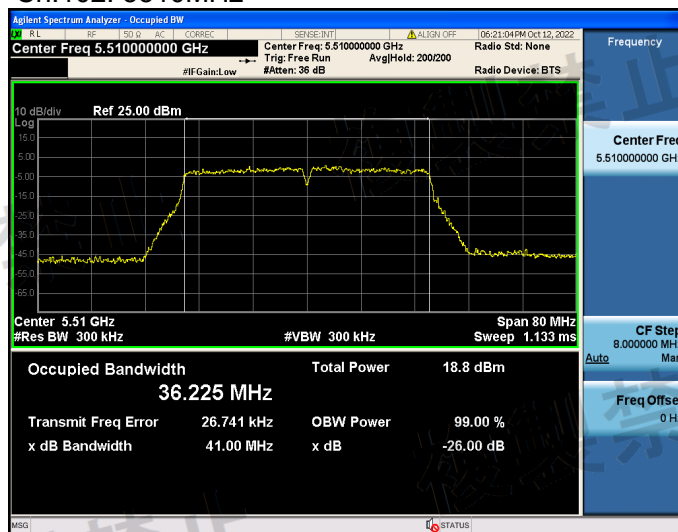


9.2 占有周波数帯幅

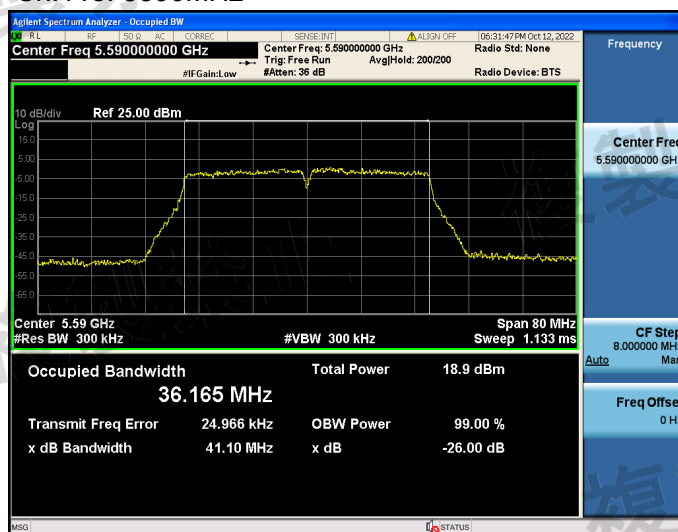
Occupied bandwidth

Tx1

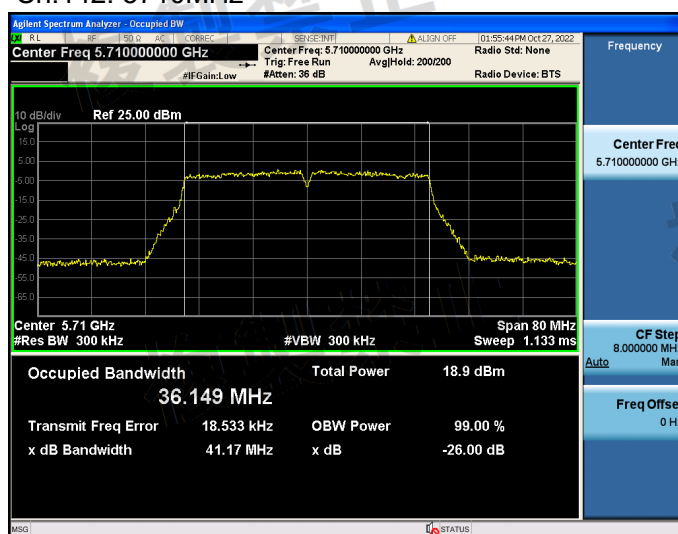
Ch.102: 5510MHz



Ch.118: 5590MHz



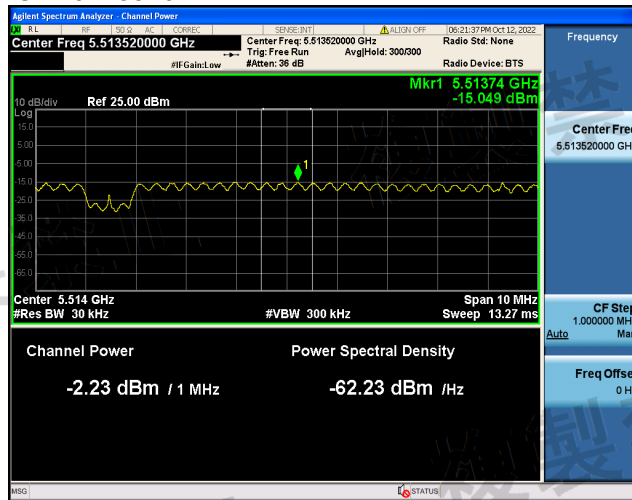
Ch.142: 5710MHz



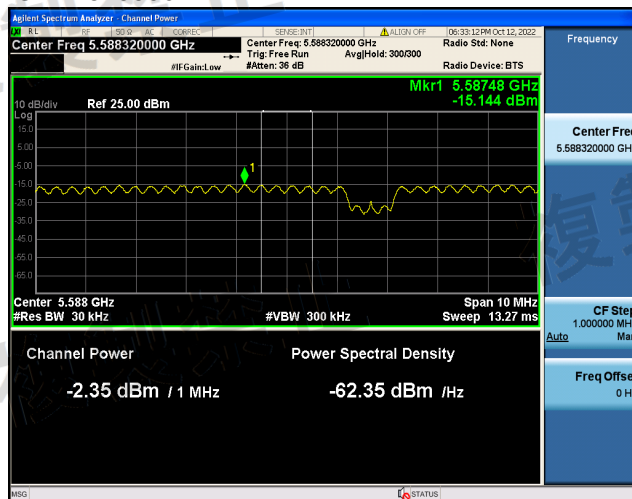
9.3 空中線電力の偏差 RF output power tolerance

Tx1

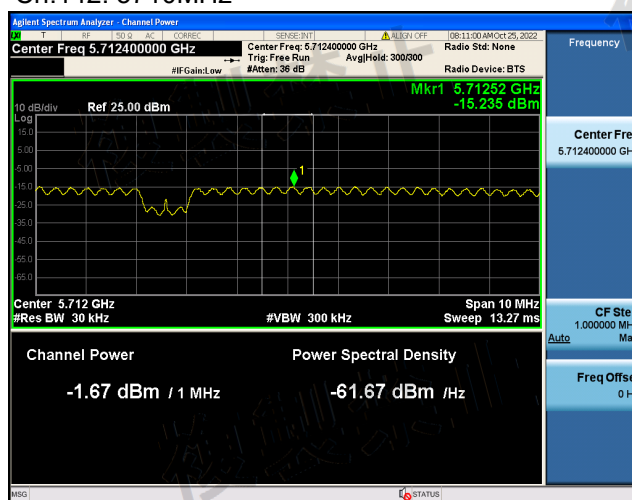
Ch.102: 5510MHz



Ch.118: 5590MHz

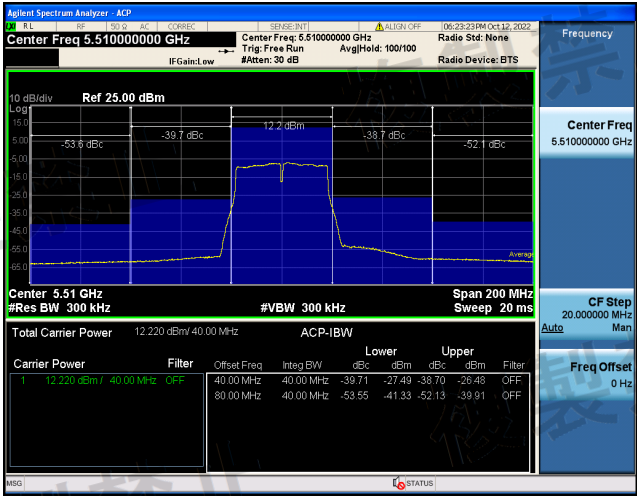


Ch.142: 5710MHz

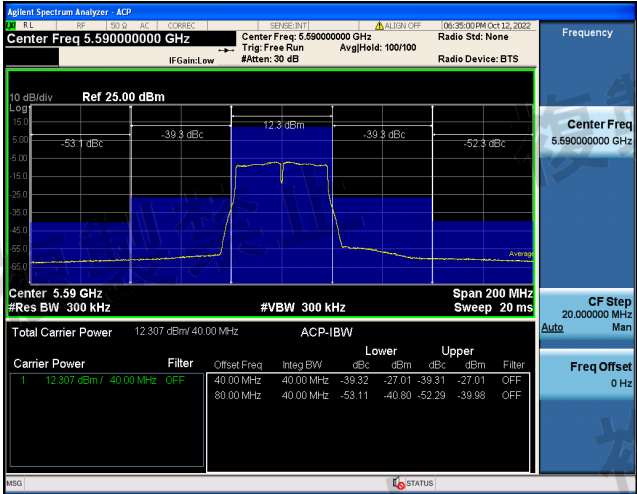


9.4 隣接チャネル漏洩電力
Adjacent Channel Leakage Power

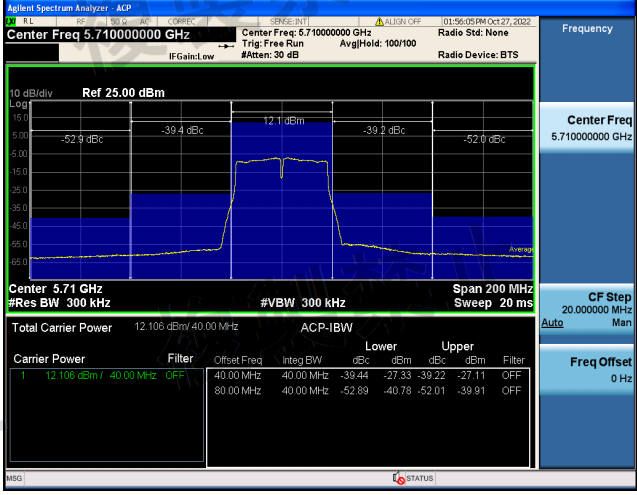
Tx1
Ch.102: 5510MHz



Ch.118: 5590MHz



Ch.142: 5710MHz

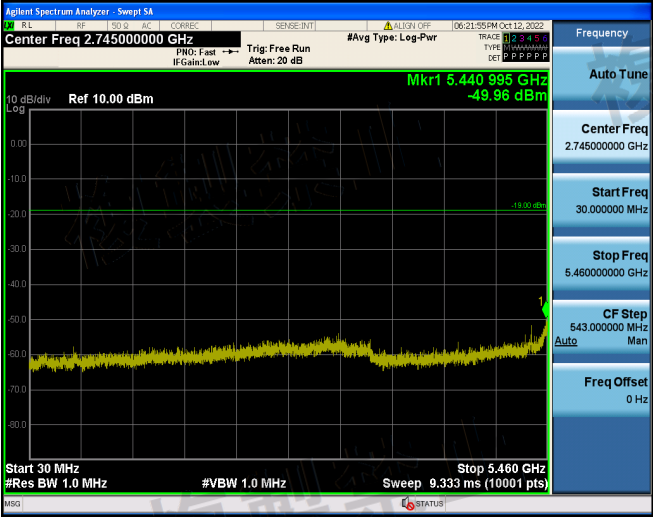


9.5 スプリアス 発射又は不要発射の強度
Unwanted(Spurious) emission strength

1 X1

Ch.102: 5510MHz
30MHz-5460MHz(Search)

30MHz-5460MHz(Detail)



NA

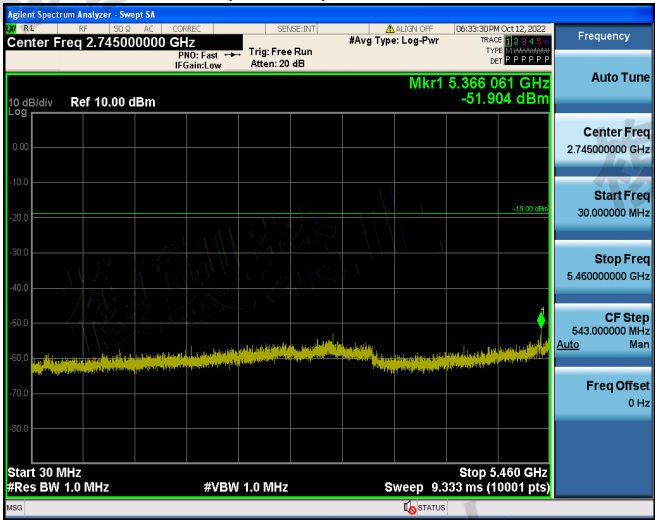
5770MHz-26GHz(Search)

5770MHz-26GHz(Detail)



NA

Ch.118: 5590MHz
30MHz-5460MHz(Search)



30MHz-5460MHz(Detail)

NA

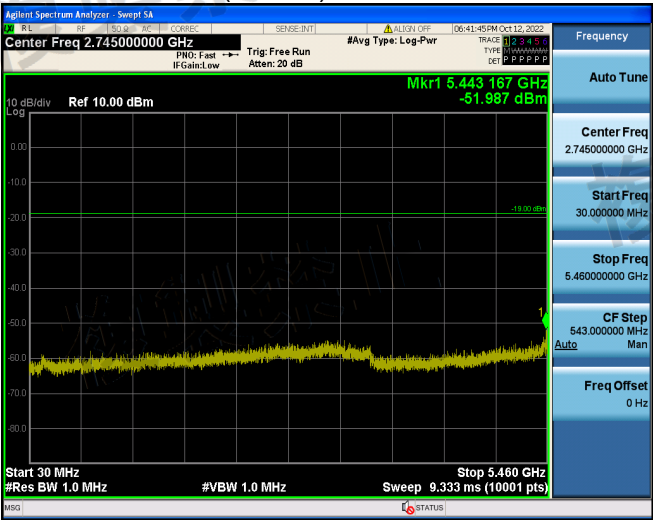
5770MHz-26GHz(Search)



5770MHz-26GHz(Detail)

NA

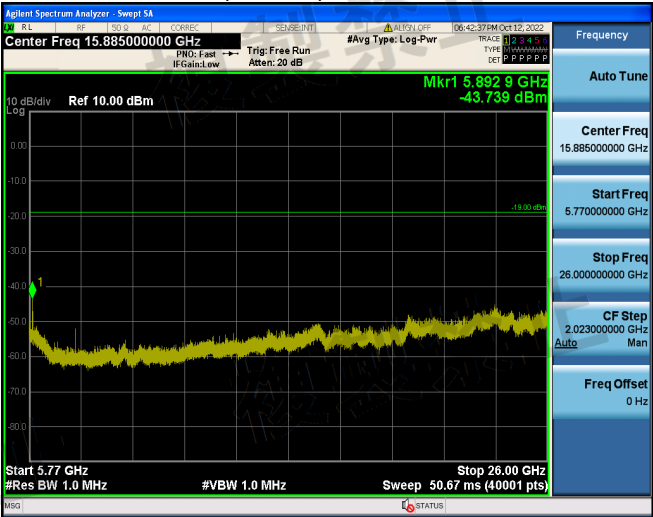
Ch.142: 5710MHz
30MHz-5460MHz(Search)



30MHz-5460MHz(Detail)

NA

5770MHz-26GHz(Search)

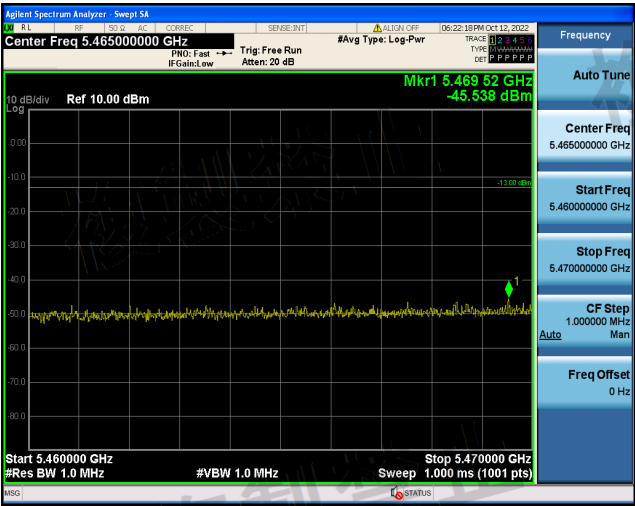


5770MHz-26GHz(Detail)

NA

9.6 帶域外漏洩電力
Out-band leakage power

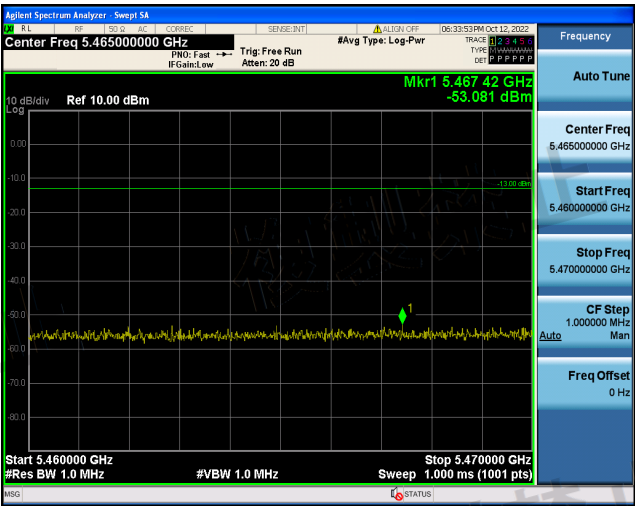
Tx1
Ch.102: 5510MHz
5460-5470MHz(Search)



5460-5470MHz(Detail)

NA

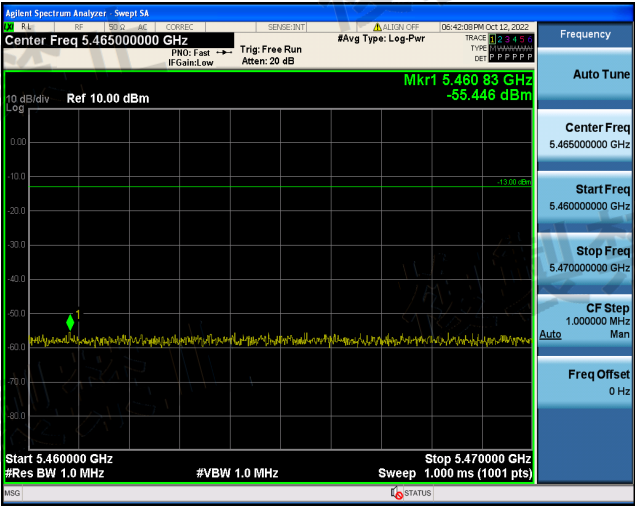
Ch.118: 5590MHz
5460-5470MHz(Search)



5460-5470MHz(Detail)

NA

Ch.142: 5710MHz
5460-5470MHz(Search)



5460-5470MHz(Detail)

NA

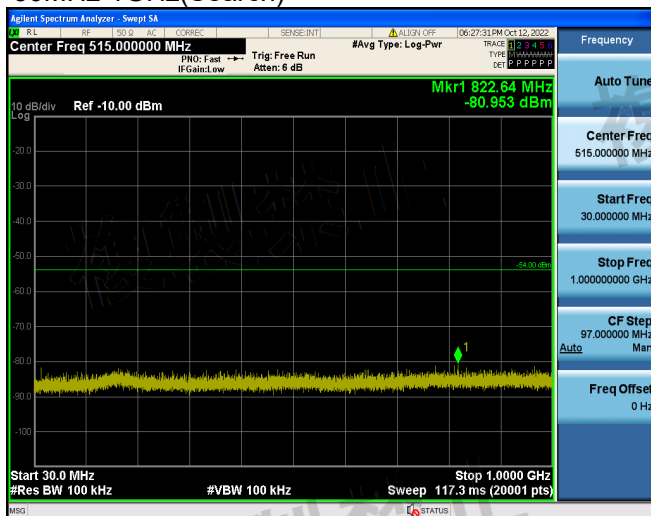
9.7 副次的 に 発 する 電 波 等 の 限 度

Secondary emitted radio wave strength

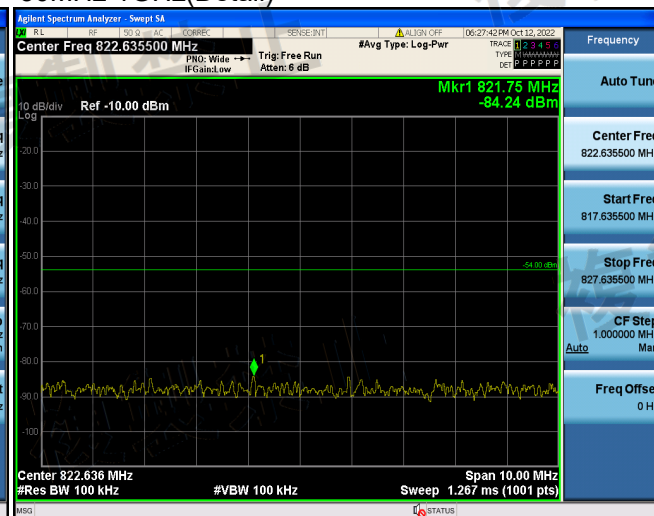
Rx1

Ch.102: 5510MHz

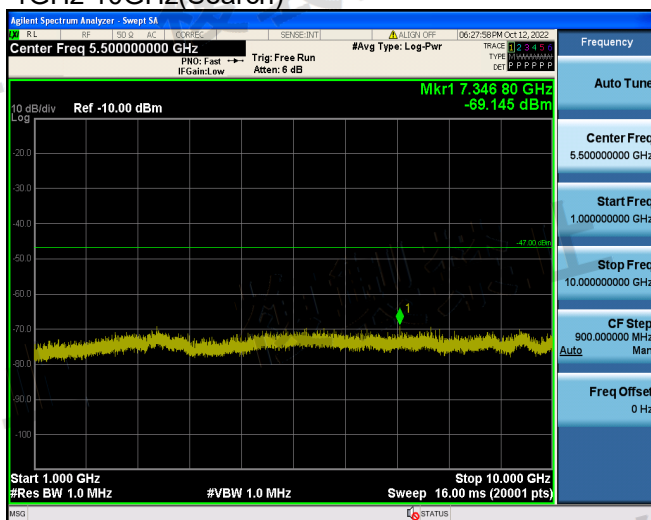
30MHz-1GHz(Search)



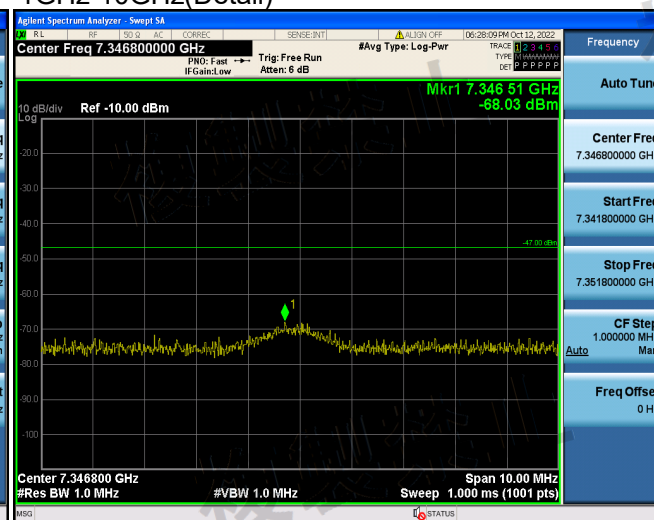
30MHz-1GHz(Detail)



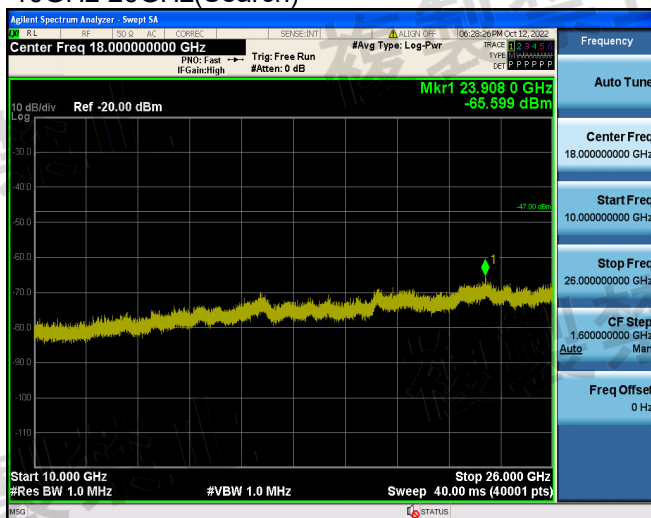
1GHz-10GHz(Search)



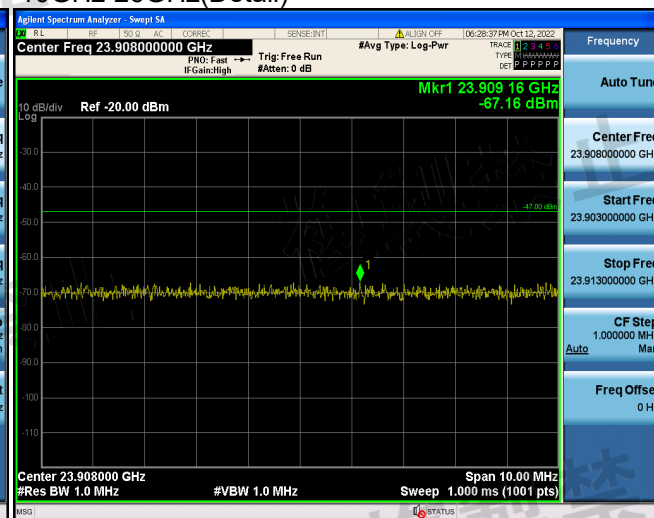
1GHz-10GHz(Detail)

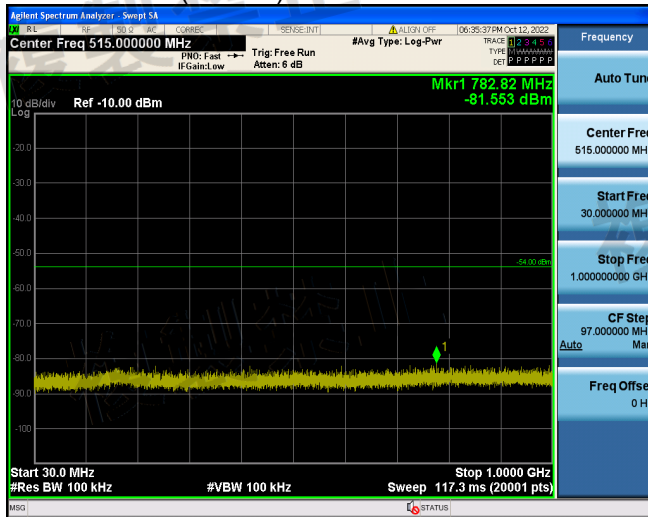


10GHz-26GHz(Search)

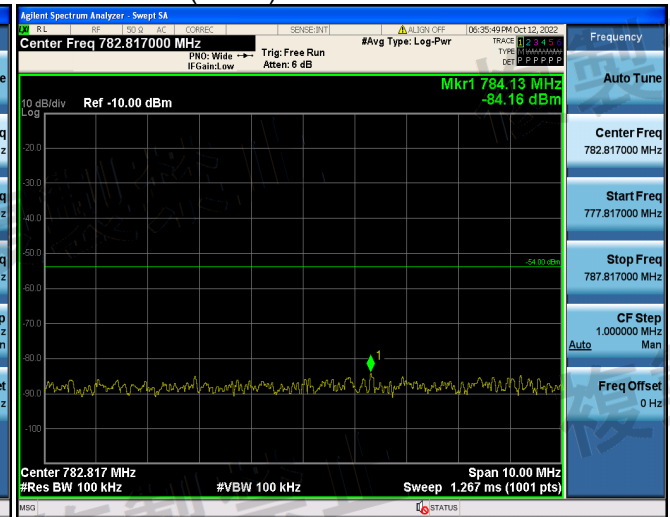


10GHz-26GHz(Detail)

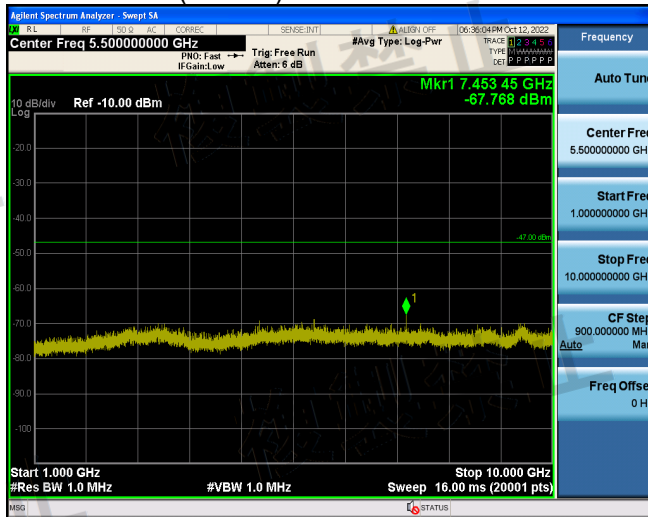


Ch.118: 5590MHz
30MHz-1GHz(Search)

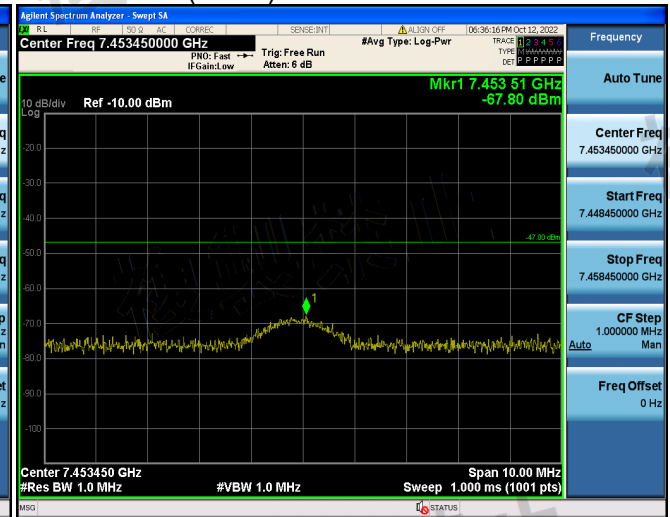
30MHz-1GHz(Detail)



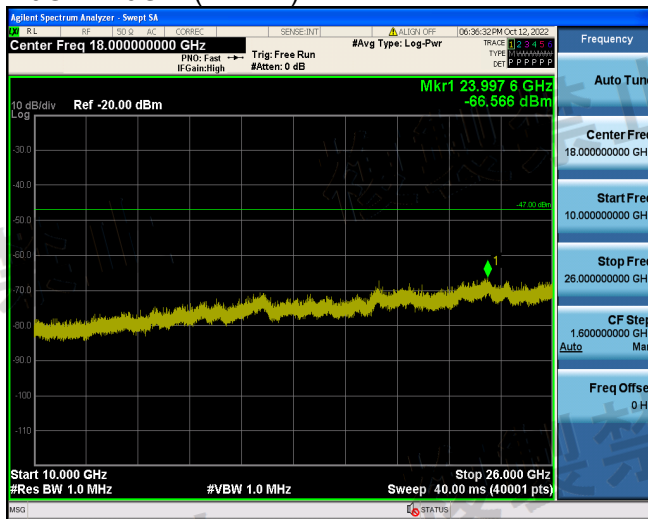
1GHz-10GHz(Search)



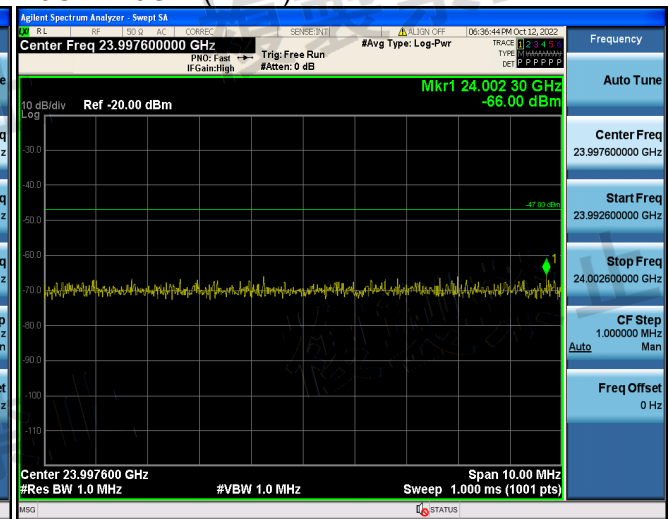
1GHz-10GHz(Detail)

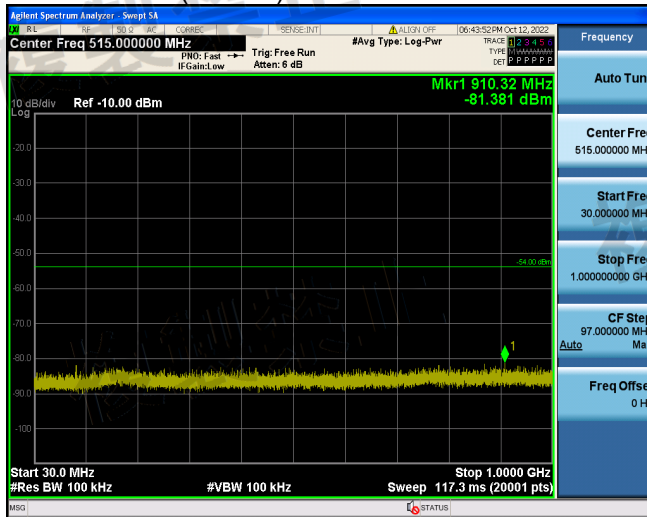


10GHz-26GHz(Search)

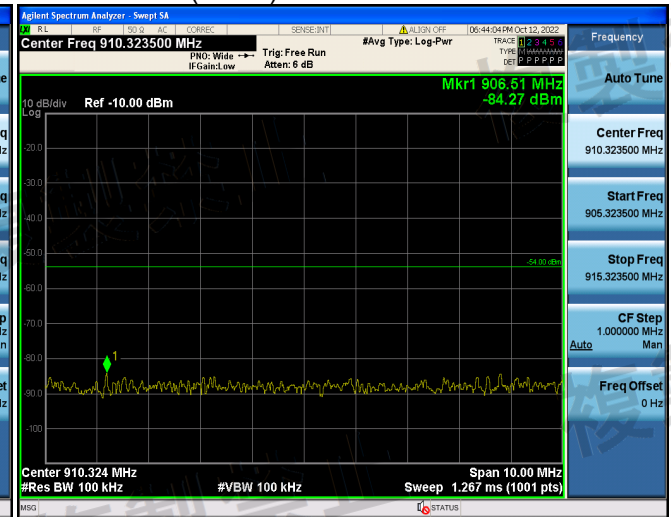


10GHz-26GHz(Detail)

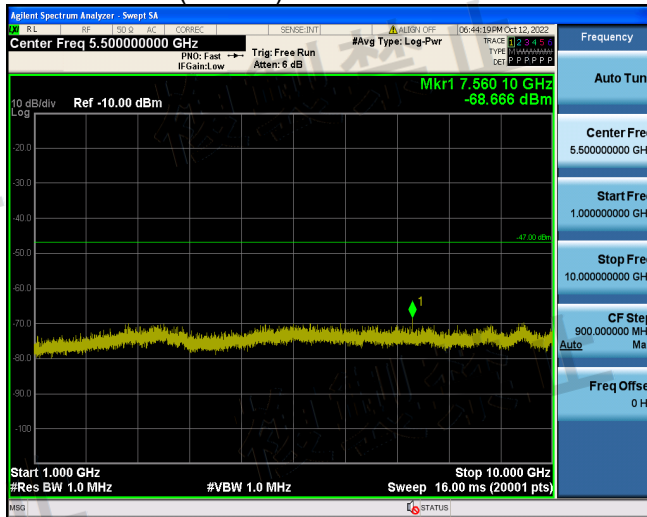


Ch.142: 5710MHz
30MHz-1GHz(Search)

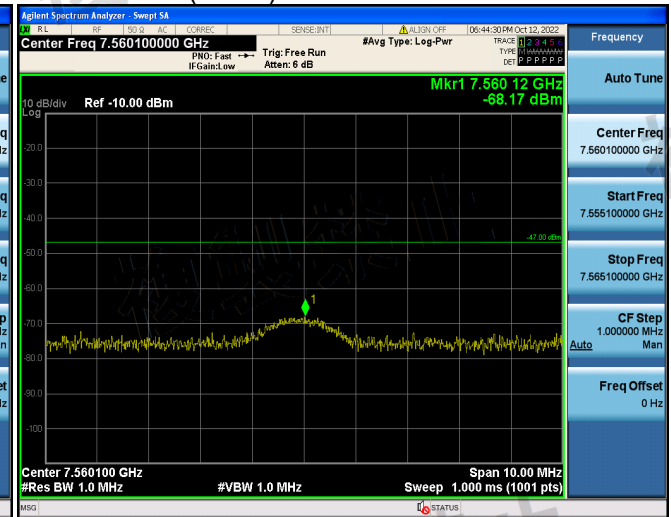
30MHz-1GHz(Detail)



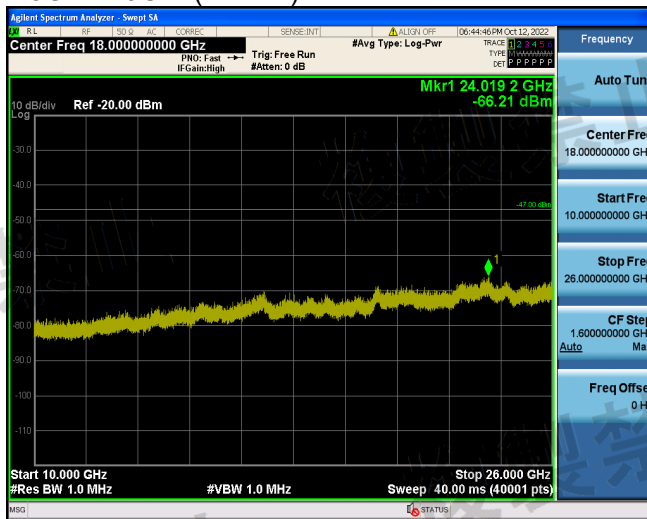
1GHz-10GHz(Search)



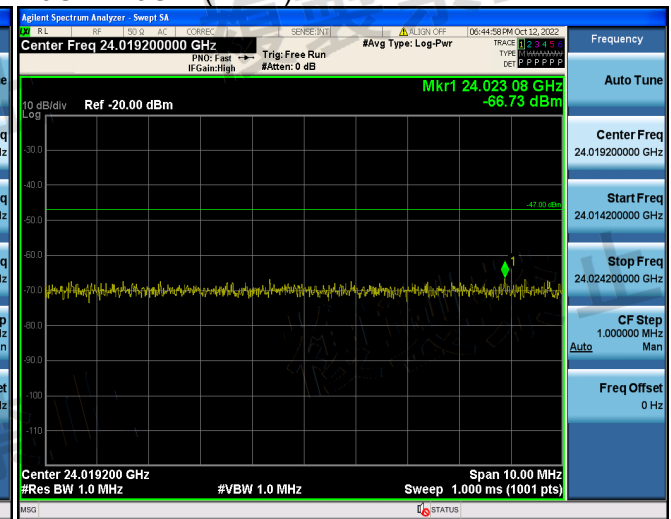
1GHz-10GHz(Detail)



10GHz-26GHz(Search)



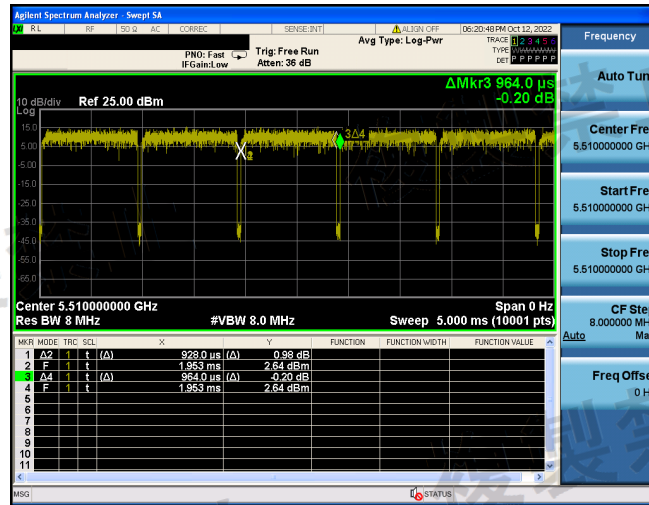
10GHz-26GHz(Detail)



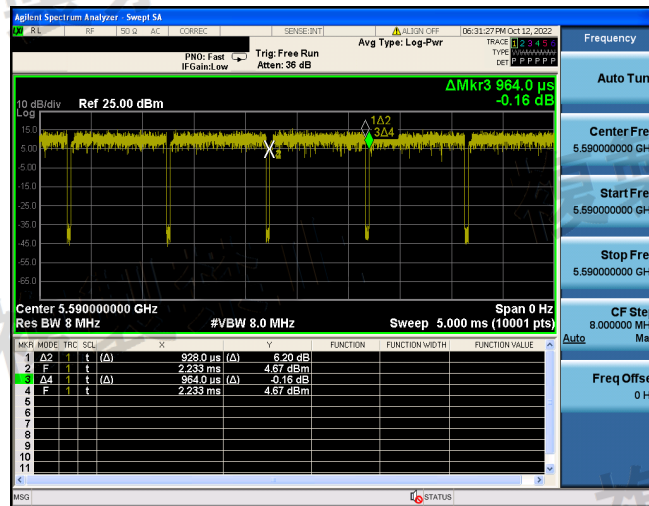
9.8 送信バースト長 Burst length of transmitted signals

Tx1

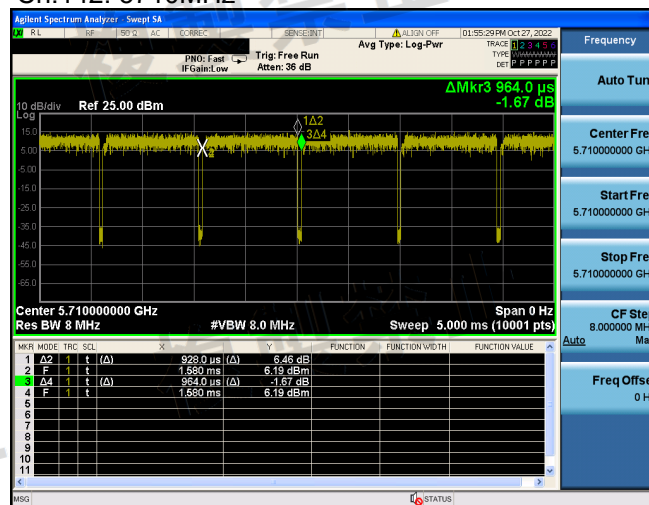
Ch.102: 5510MHz



Ch.118: 5590MHz



Ch.142: 5710MHz



9. 測定チャート

Test chart

9.1 周波数偏差

Frequency tolerance

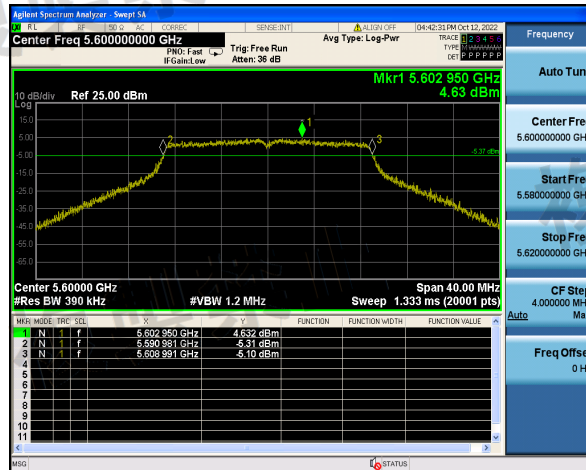
802.11ac20

Tx1

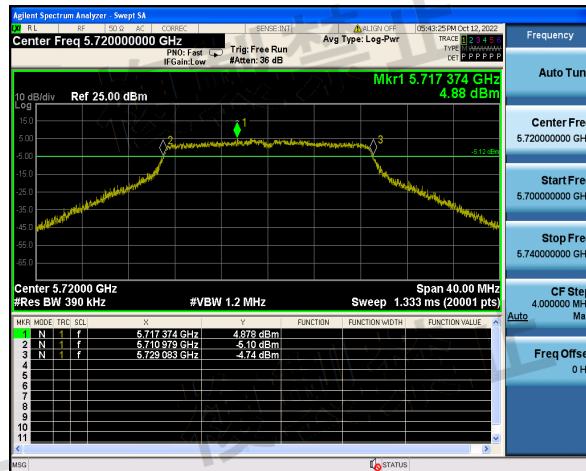
Ch.100: 5500MHz



Ch.120: 5600MHz



Ch.144: 5720MHz



9.2 占有周波数帯幅

Occupied bandwidth

Tx1

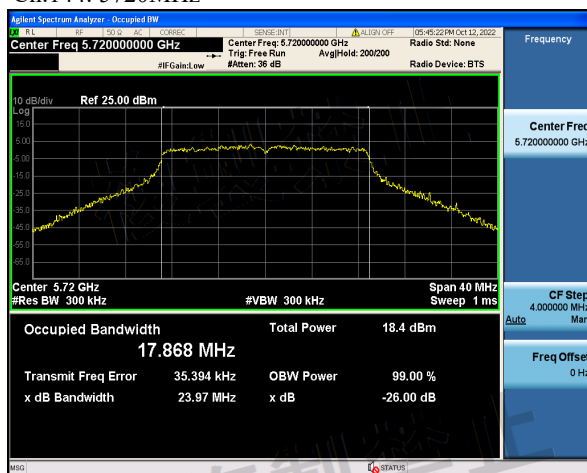
Ch.100: 5500MHz



Ch.120: 5600MHz



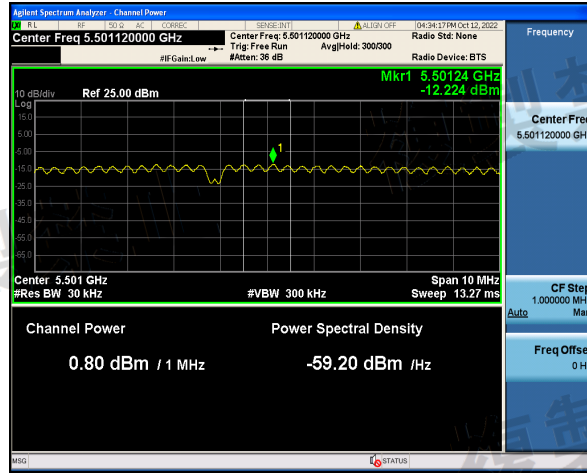
Ch.144: 5720MHz



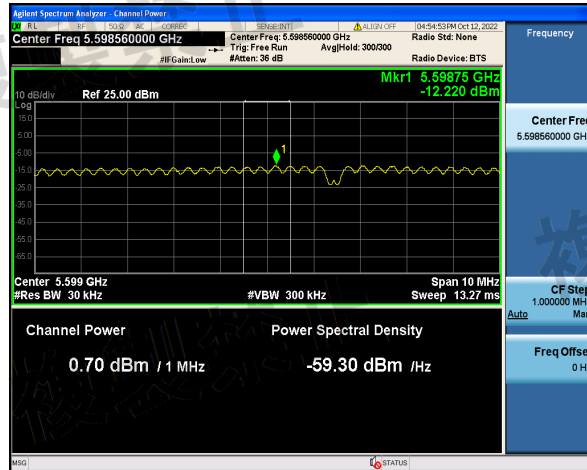
9.3 空中線電力の偏差 RF output power tolerance

Tx1

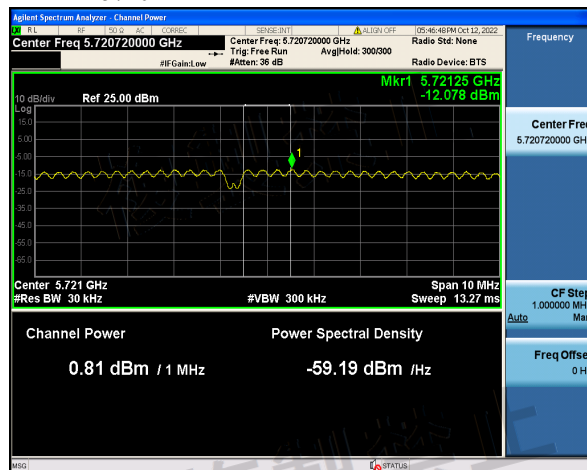
Ch.100: 5500MHz



Ch.120: 5600MHz



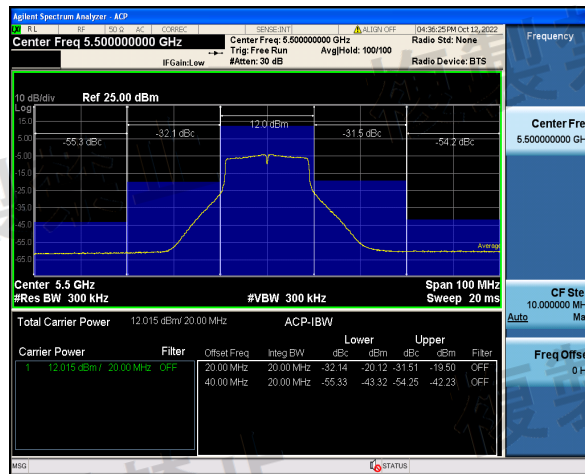
Ch.144: 5720MHz



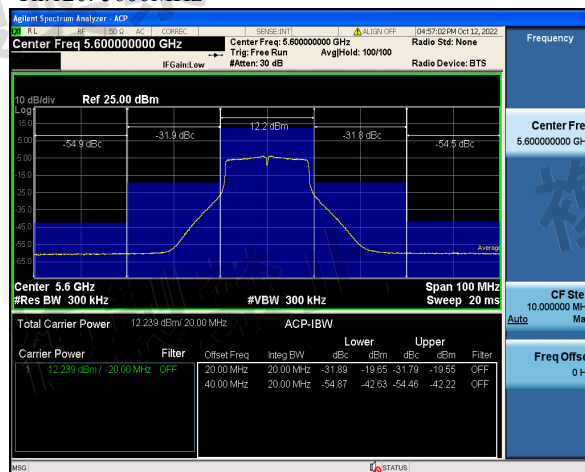
9.4 隣接チャネル漏洩電力 Adjacent Channel Leakage Power

Tx1

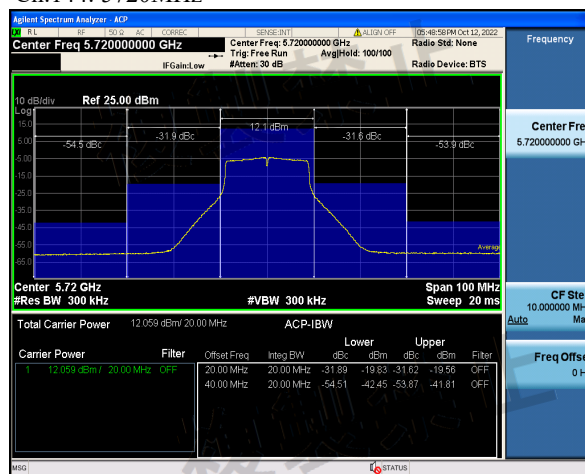
Ch.100: 5500MHz



Ch.120: 5600MHz



Ch.144: 5720MHz

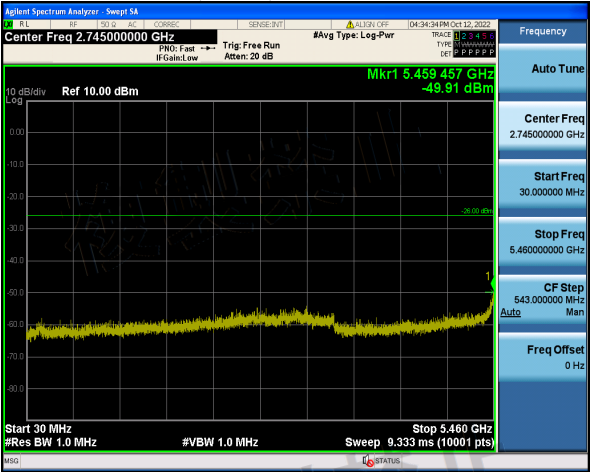


9.5 スプリアス 発射又は不要発射の強度
Unwanted(Spurious) emission strength

1 X1

Ch.100: 5500MHz

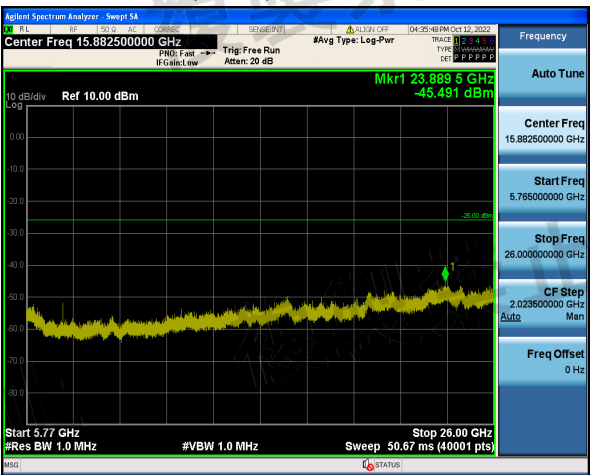
30MHz-5460MHz(Search)



30MHz-5460MHz(Detail)

NA

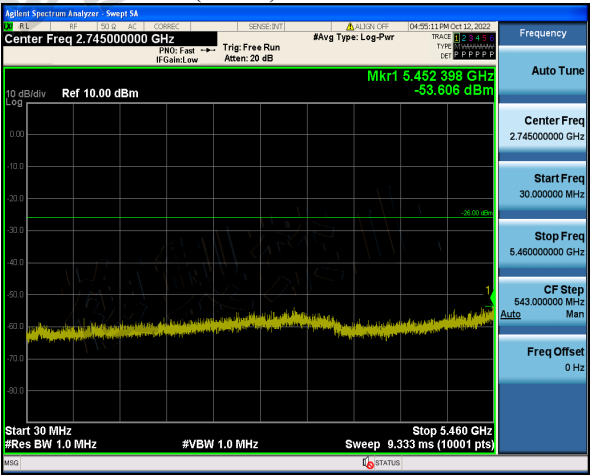
5765MHz-26GHz(Search)



5765MHz-26GHz(Detail)

NA

Ch.120: 5600MHz
30MHz-5460MHz(Search)



30MHz-5460MHz(Detail)

NA

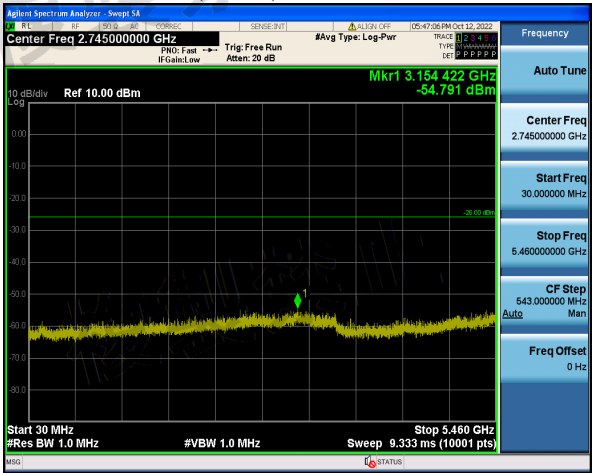
5765MHz-26GHz(Search)



5765MHz-26GHz(Detail)

NA

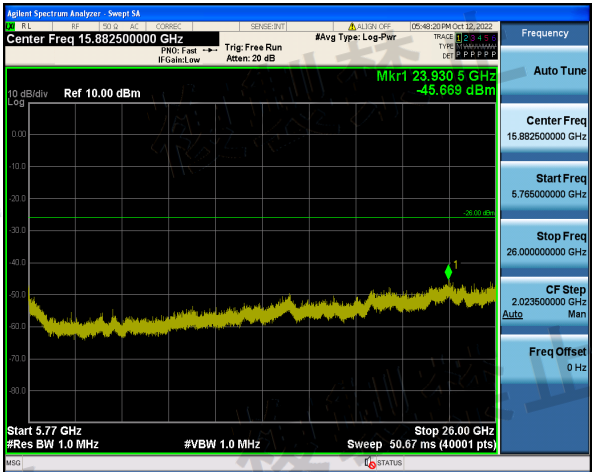
Ch.144: 5720MHz
30MHz-5460MHz(Search)



30MHz-5460MHz(Detail)

NA

5765MHz-26GHz(Search)



5765MHz-26GHz(Detail)

NA

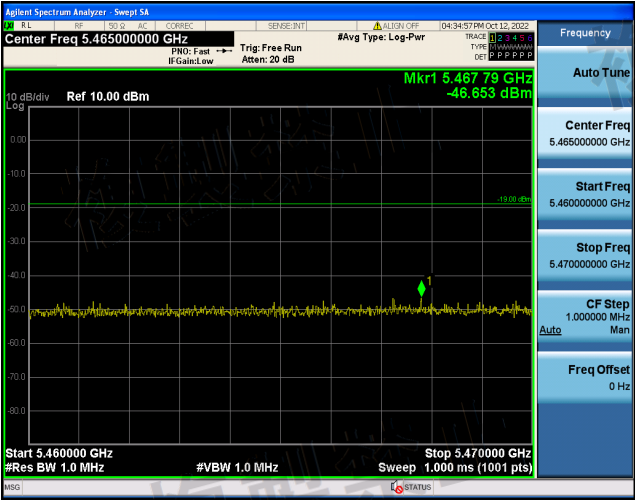
9.6 帶域外漏洩電力
Out-band leakage power

Tx1

Ch.100: 5500MHz

5460-5470MHz(Search)

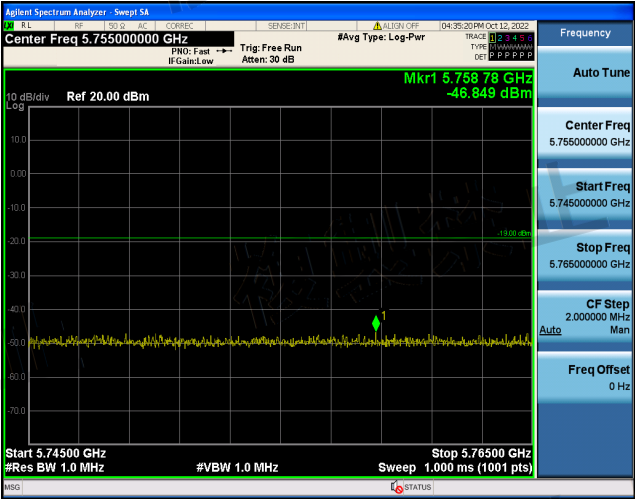
5460-5470MHz(Detail)



NA

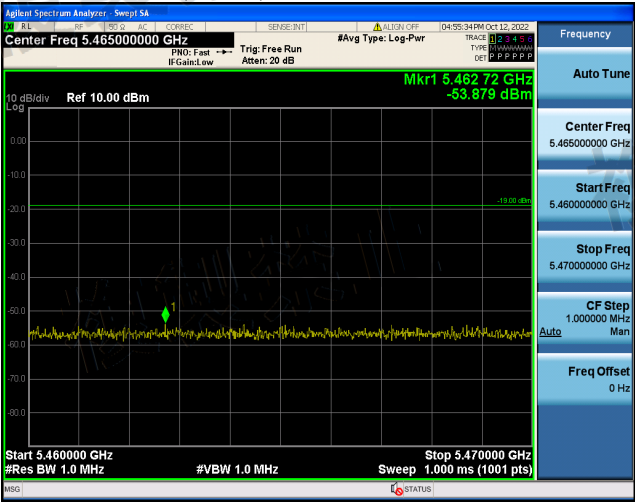
5745-5765MHz(Search)

5745-5765MHz(Detail)



NA

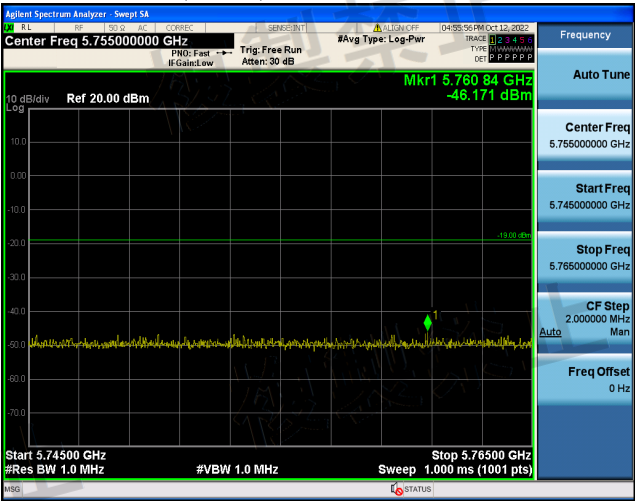
Ch.120: 5600MHz
5460-5470MHz(Search)



5460-5470MHz(Detail)

NA

5745-5765MHz(Search)

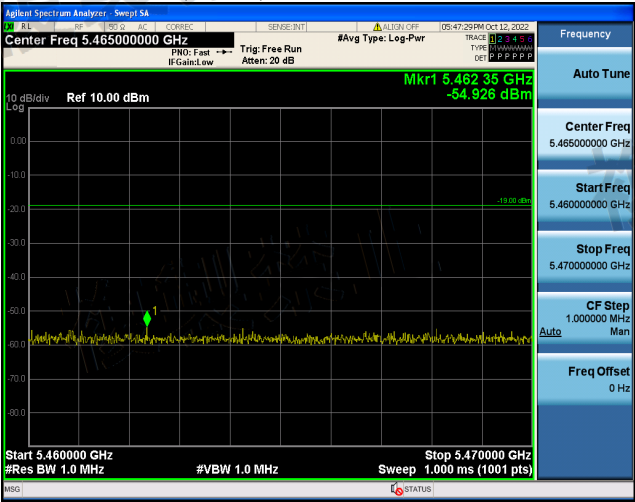


5745-5765MHz(Detail)

NA

Ch.144: 5720MHz
5745-5765MHz(Search)

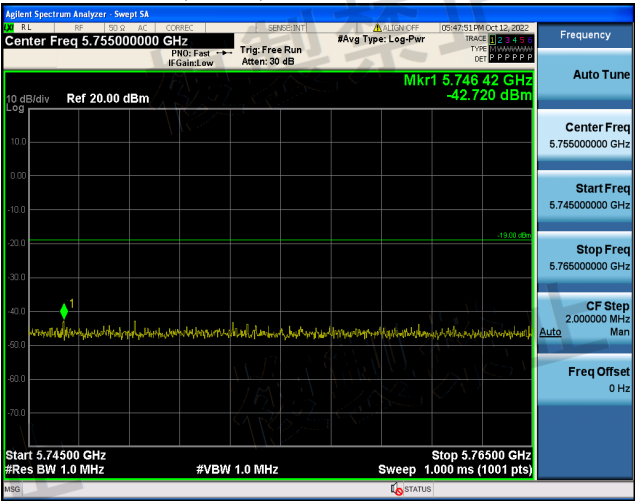
5745-5765MHz(Detail)



NA

5460-5470MHz(Search)

5460-5470MHz(Detail)



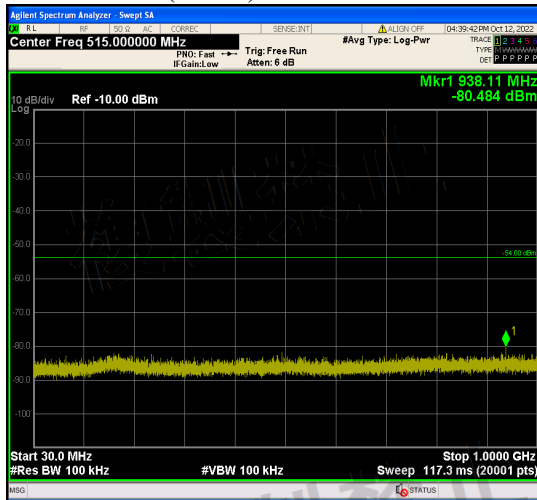
NA

9.7 副次的に発する電波等の限度 Secondary emitted radio wave strength

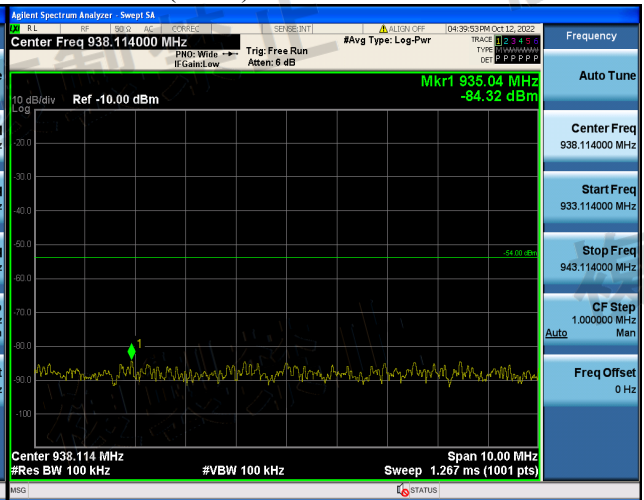
Rx1

Ch.100: 5500MHz

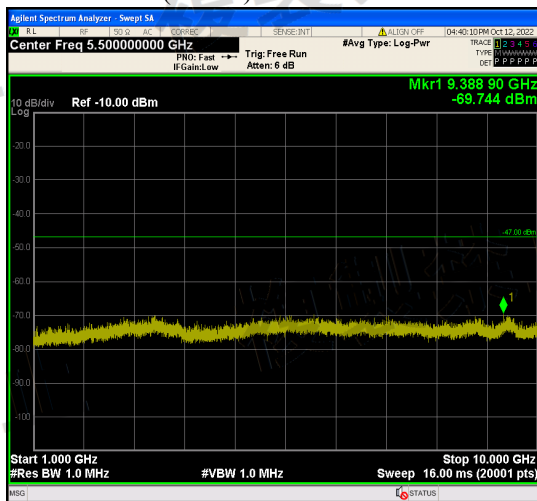
30MHz-1GHz(Search)



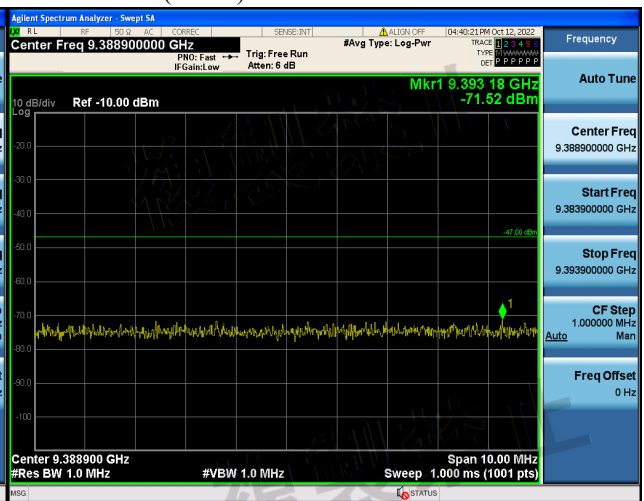
30MHz-1GHz(Detail)



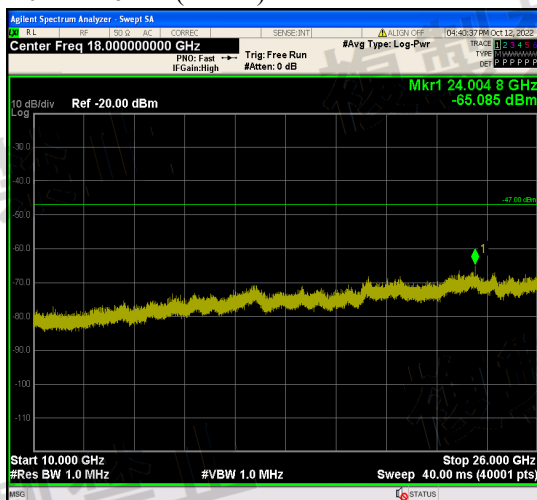
1GHz-10GHz(Search)



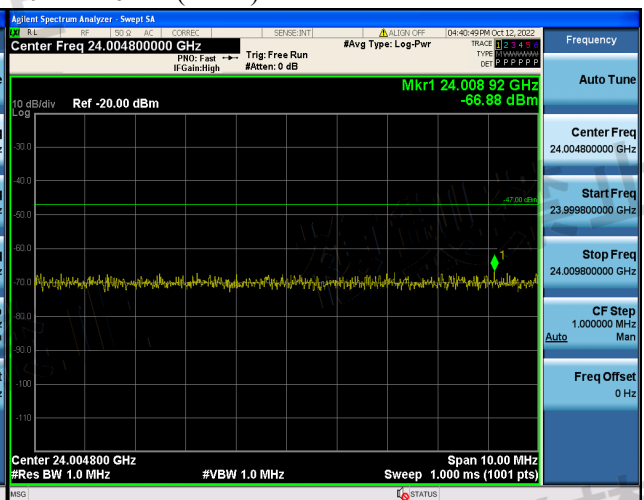
1GHz-10GHz(Detail)

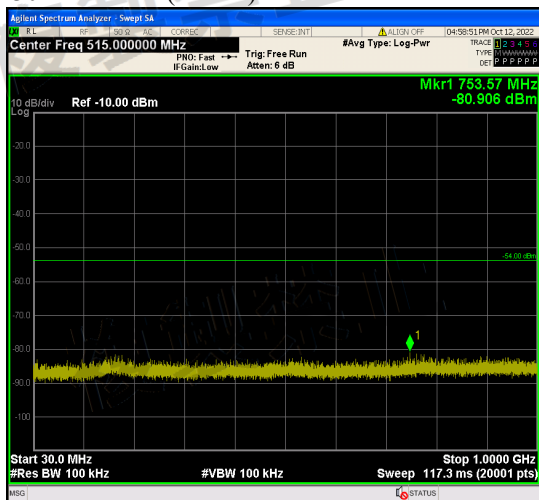


10GHz-26GHz(Search)

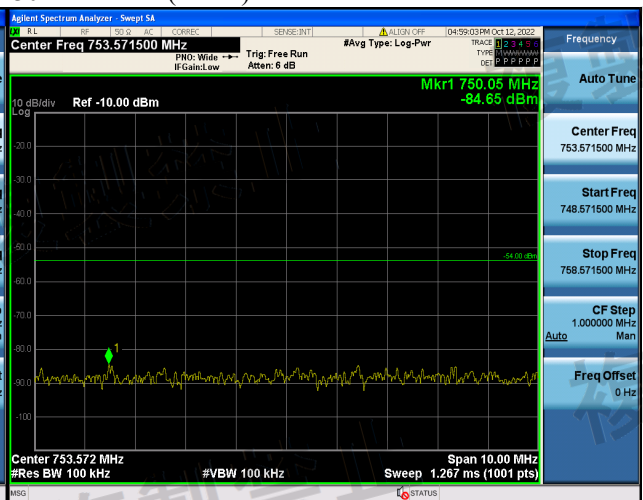


10GHz-26GHz(Detail)

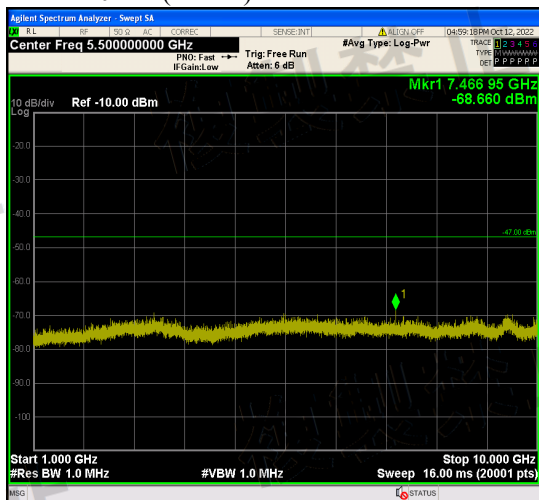


Ch.120: 5600MHz
30MHz-1GHz(Search)

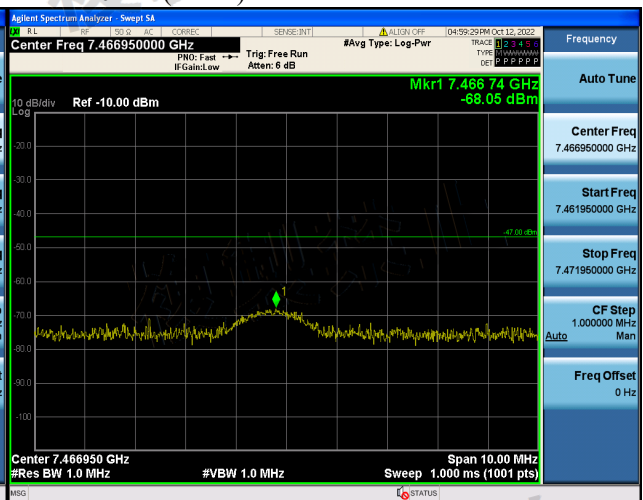
30MHz-1GHz(Detail)



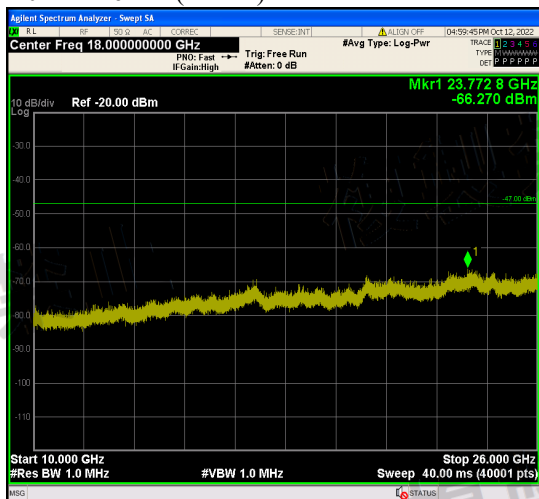
1GHz-10GHz(Search)



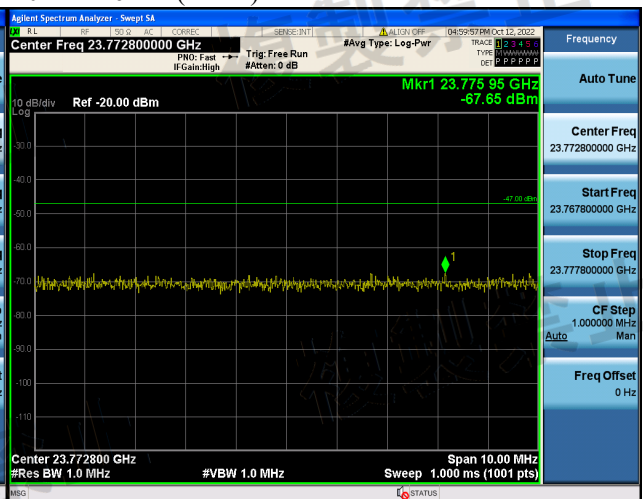
1GHz-10GHz(Detail)

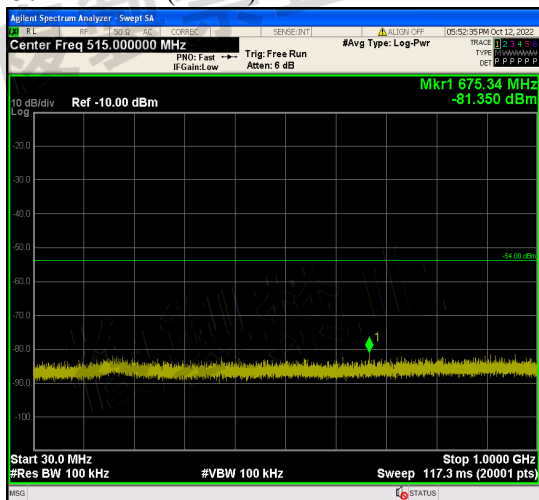


10GHz-26GHz(Search)

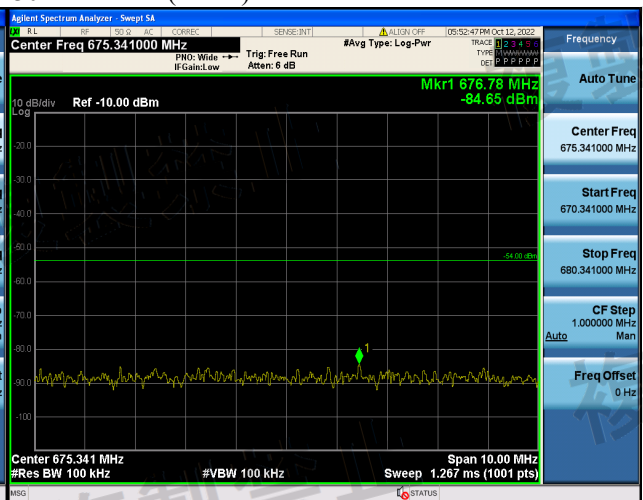


10GHz-26GHz(Detail)

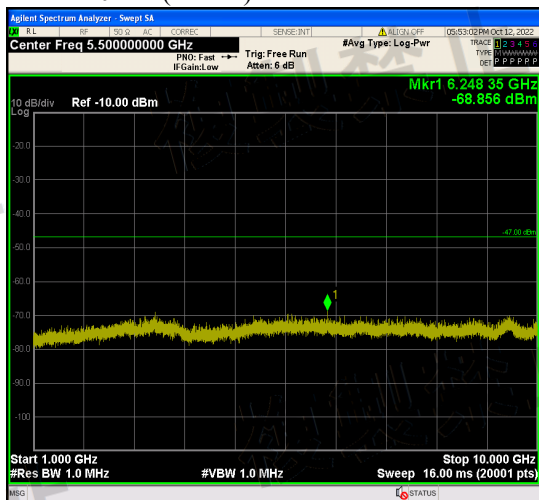


Ch.144: 5720MHz
30MHz-1GHz(Search)

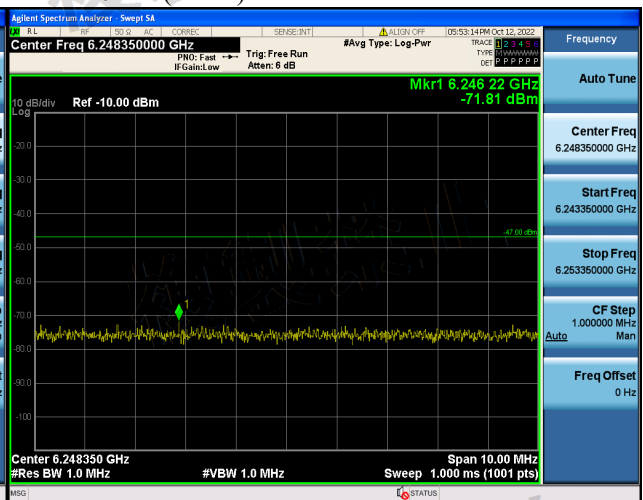
30MHz-1GHz(Detail)



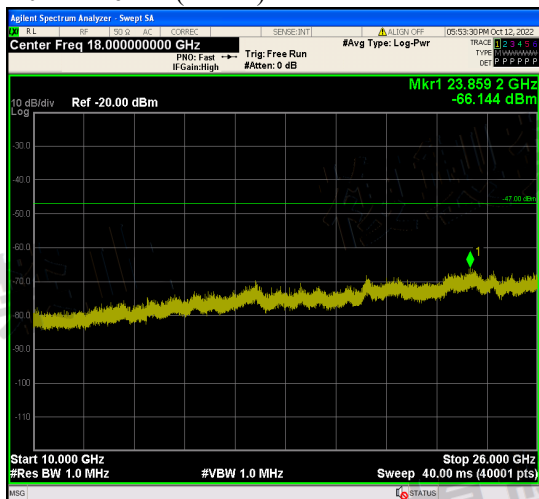
1GHz-10GHz(Search)



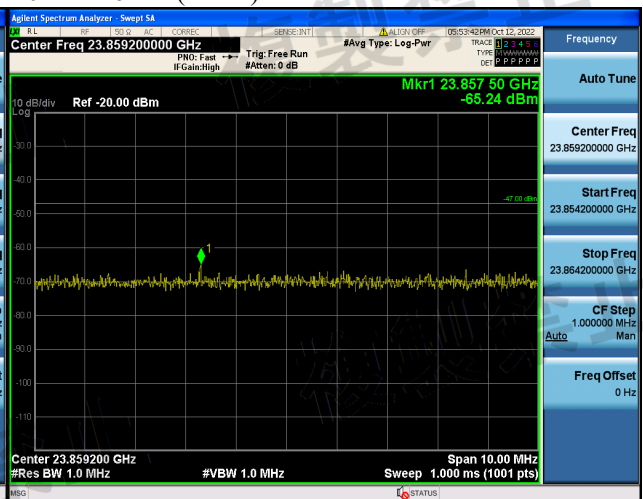
1GHz-10GHz(Detail)



10GHz-26GHz(Search)



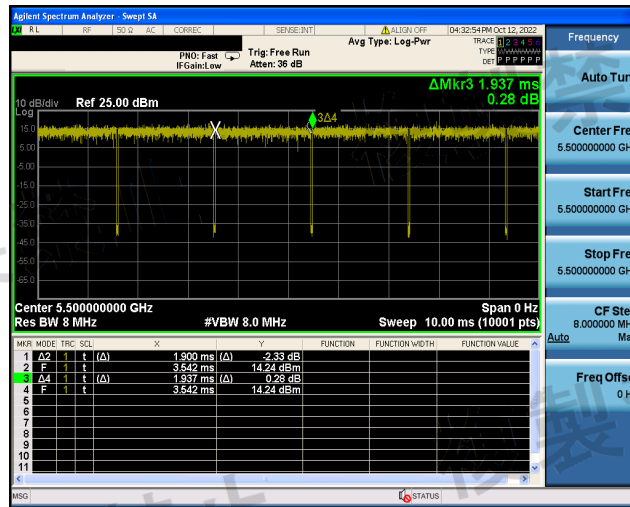
10GHz-26GHz(Detail)



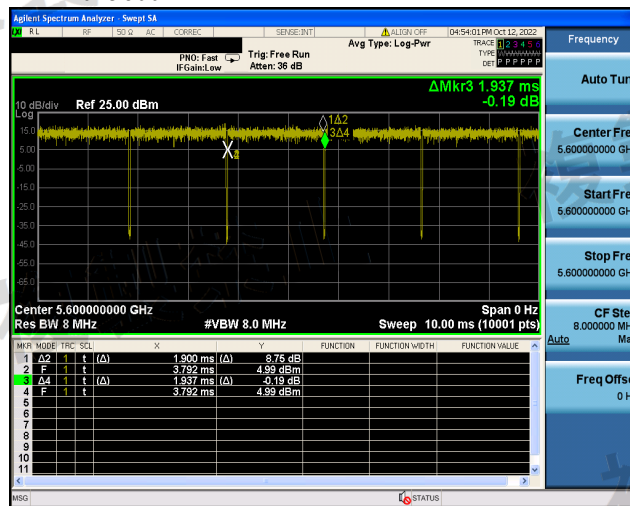
9.8 送信バースト長
Burst length of transmitted signals

Tx1

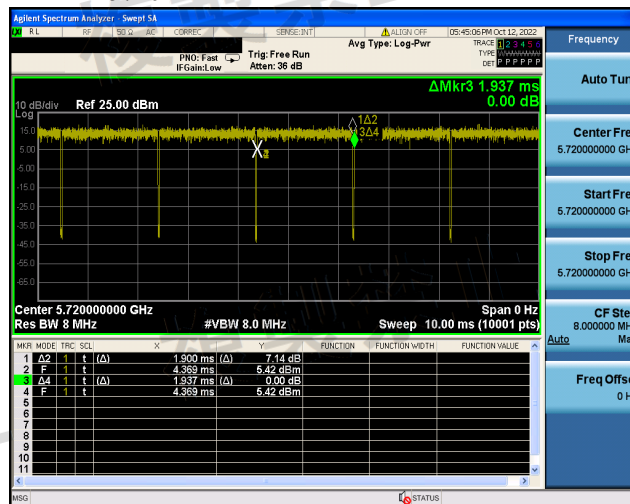
Ch.100: 5500MHz



Ch.120: 5600MHz



Ch.144: 5720MHz



9. 測定チャート

Test chart

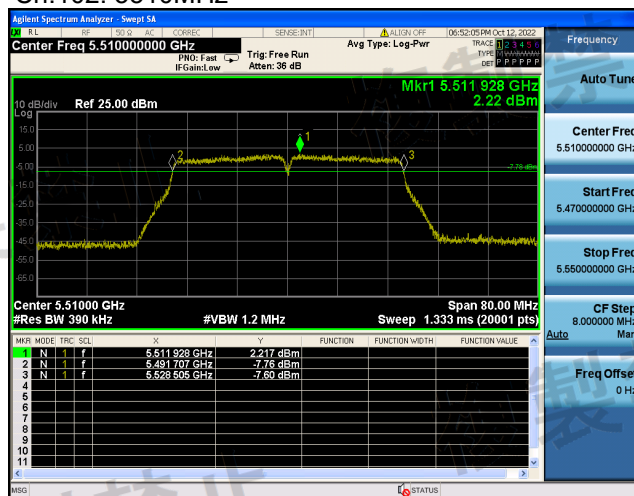
9.1 周波数偏差

Frequency tolerance

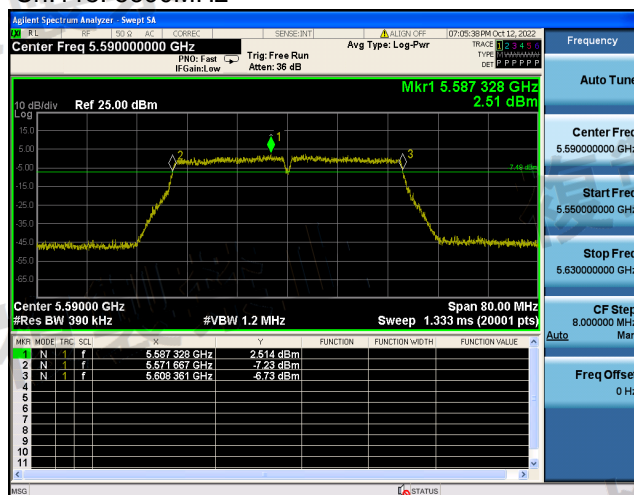
802.11ac40

Tx1

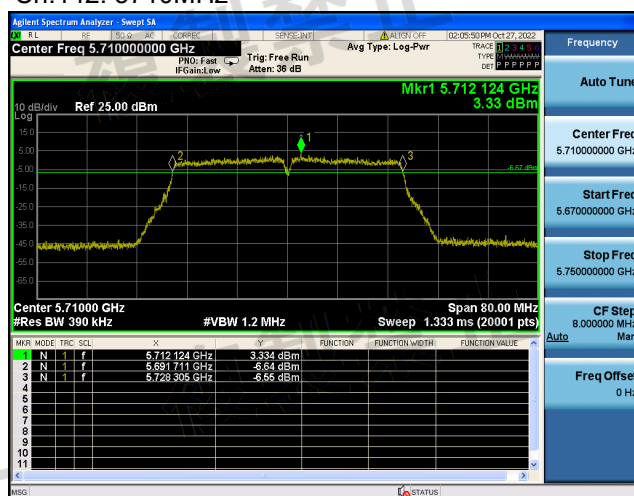
Ch.102: 5510MHz



Ch.118: 5590MHz



Ch.142: 5710MHz

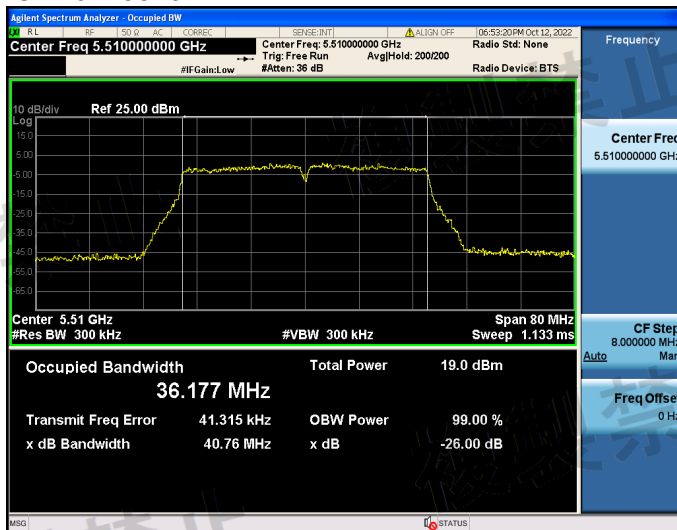


9.2 占有周波数帯幅

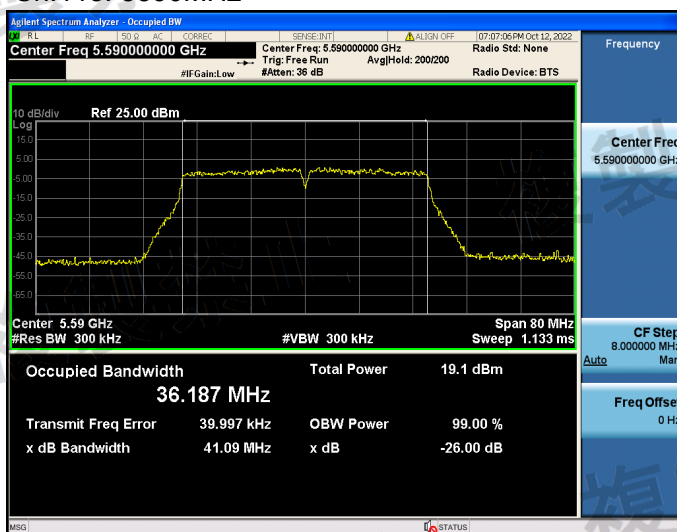
Occupied bandwidth

Tx1

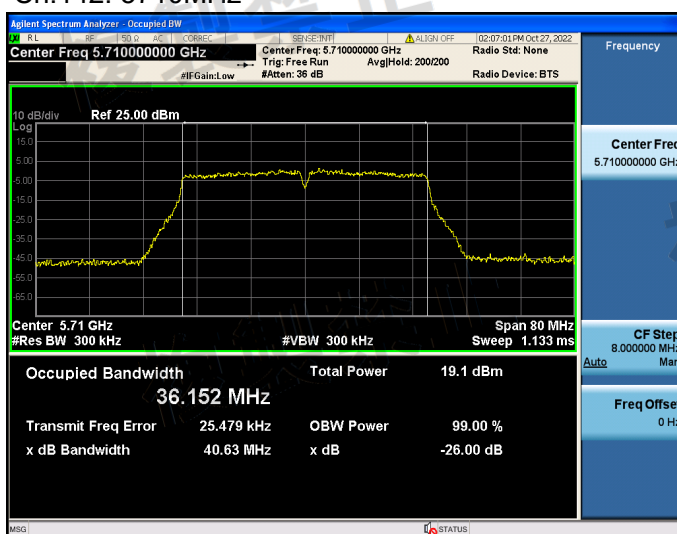
Ch.102: 5510MHz



Ch.118: 5590MHz



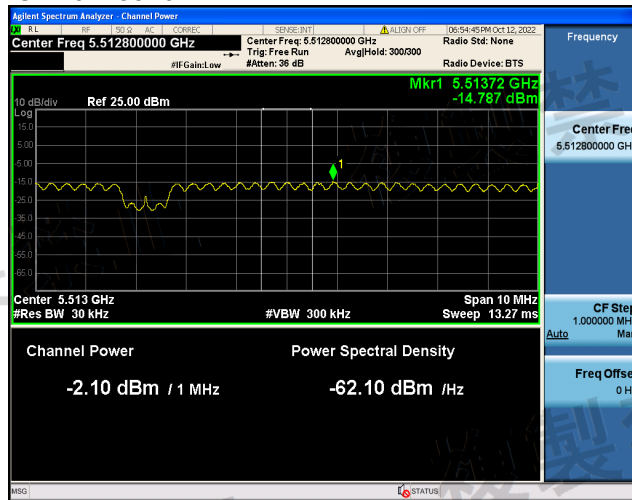
Ch.142: 5710MHz



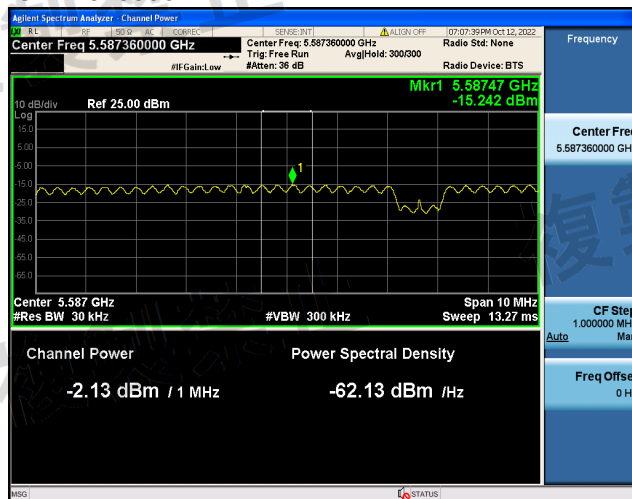
9.3 空中線電力の偏差 RF output power tolerance

Tx1

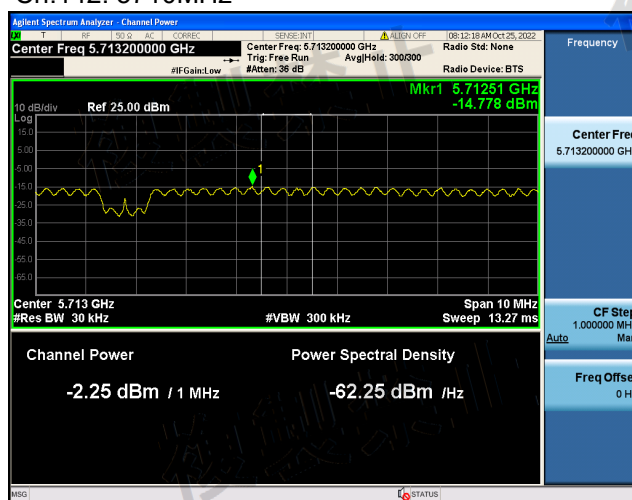
Ch.102: 5510MHz



Ch.118: 5590MHz

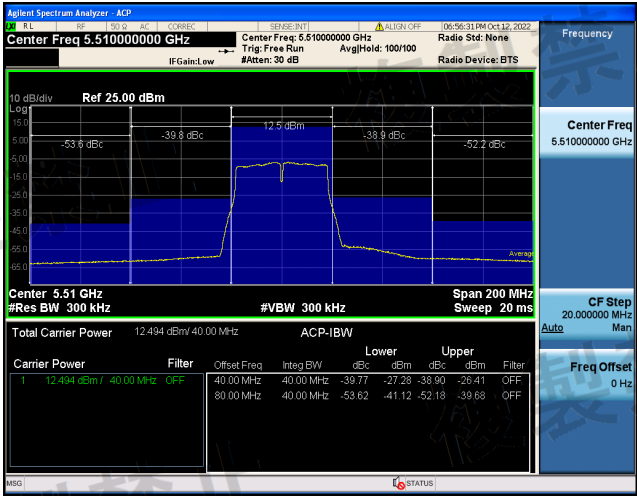


Ch.142: 5710MHz

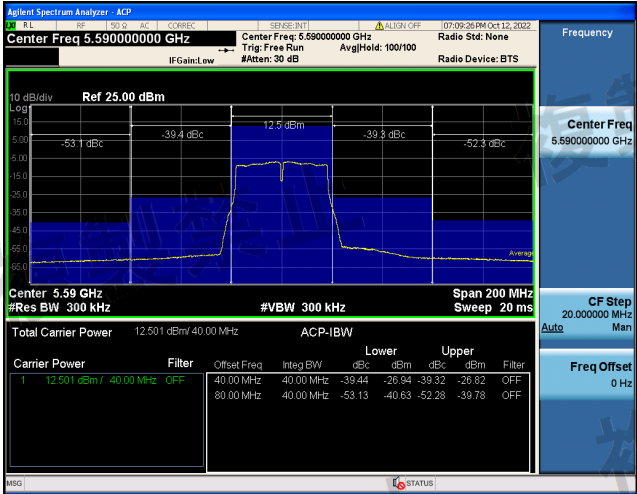


9.4 隣接チャネル漏洩電力
Adjacent Channel Leakage Power

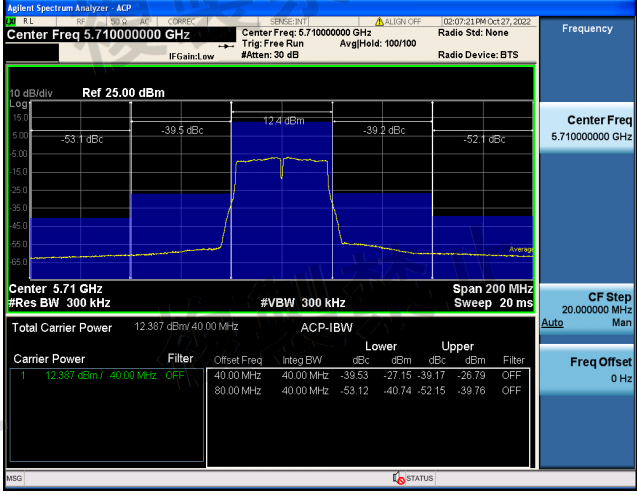
Tx1
Ch.102: 5510MHz



Ch.118: 5590MHz



Ch.142: 5710MHz

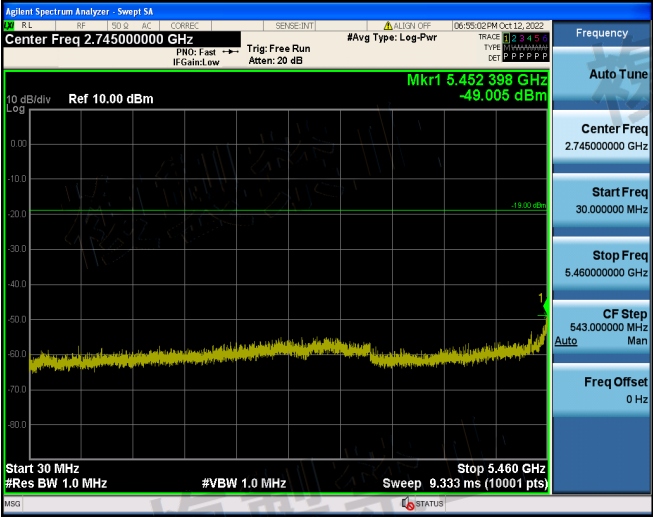


9.5 スプリアス 発射又は不要発射の強度
Unwanted(Spurious) emission strength

1 X1

Ch.102: 5510MHz
30MHz-5460MHz(Search)

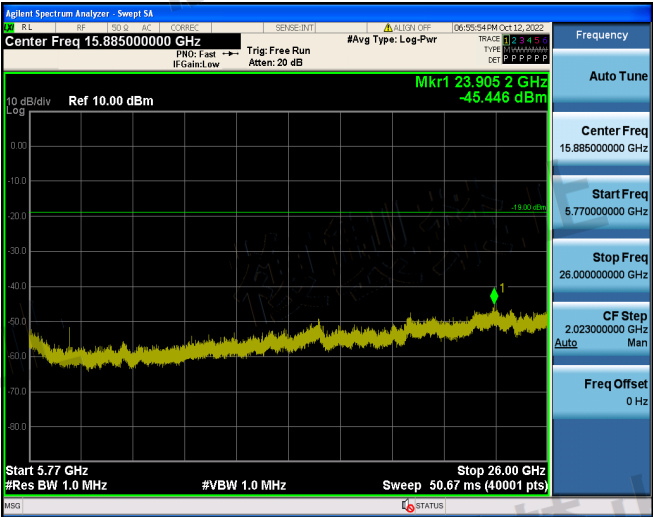
30MHz-5460MHz(Detail)



NA

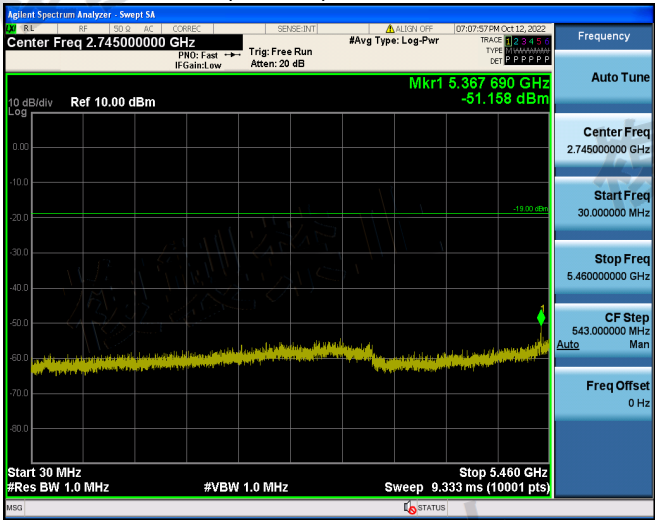
5770MHz-26GHz(Search)

5770MHz-26GHz(Detail)



NA

Ch.118: 5590MHz
30MHz-5460MHz(Search)



30MHz-5460MHz(Detail)

NA

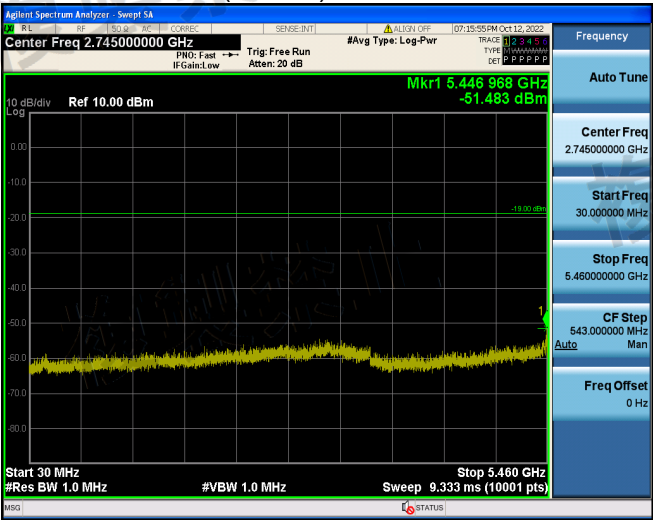
5770MHz-26GHz(Search)



5770MHz-26GHz(Detail)

NA

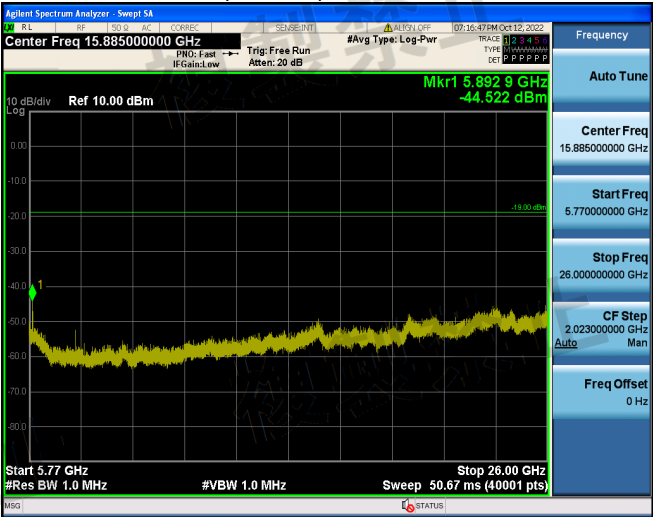
Ch.142: 5710MHz
30MHz-5460MHz(Search)



30MHz-5460MHz(Detail)

NA

5770MHz-26GHz(Search)

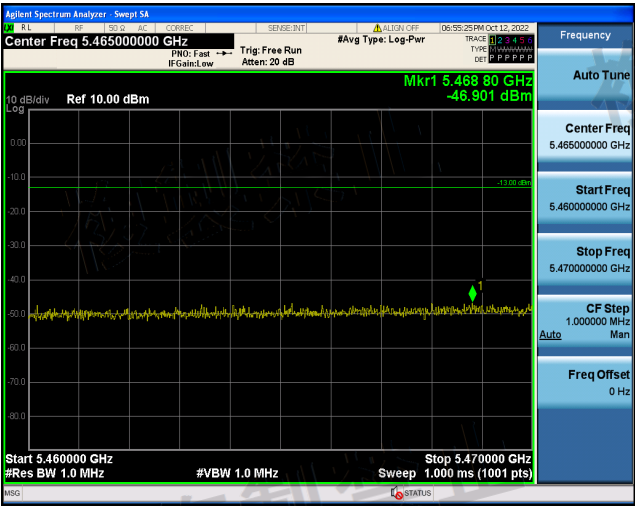


5770MHz-26GHz(Detail)

NA

9.6 帶域外漏洩電力
Out-band leakage power

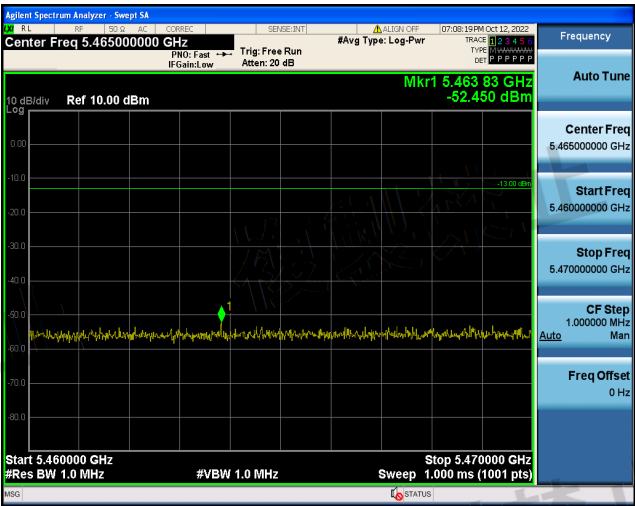
Tx1
Ch.102: 5510MHz
5460-5470MHz(Search)



5460-5470MHz(Detail)

NA

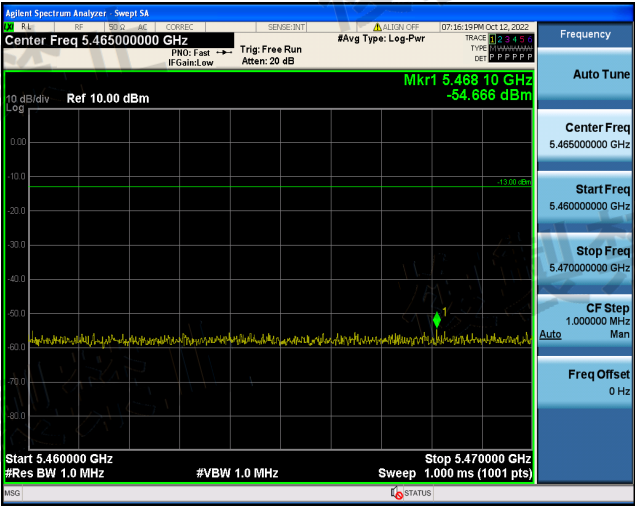
Ch.118: 5590MHz
5460-5470MHz(Search)



5460-5470MHz(Detail)

NA

Ch.142: 5710MHz
5460-5470MHz(Search)



5460-5470MHz(Detail)

NA

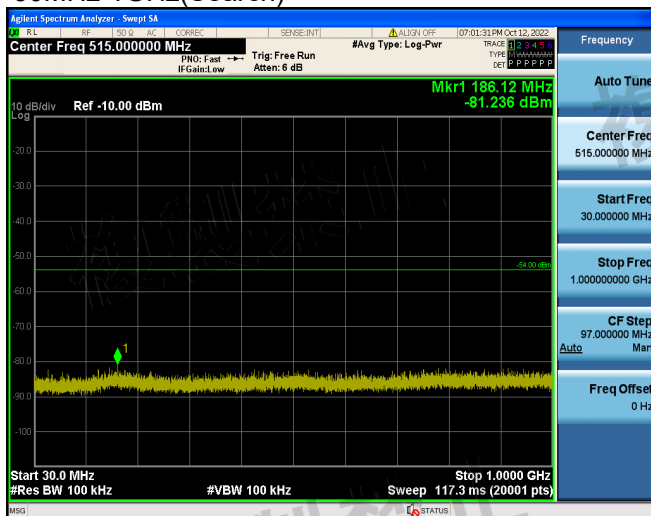
9.7 副次的に発する電波等の限度

Secondary emitted radio wave strength

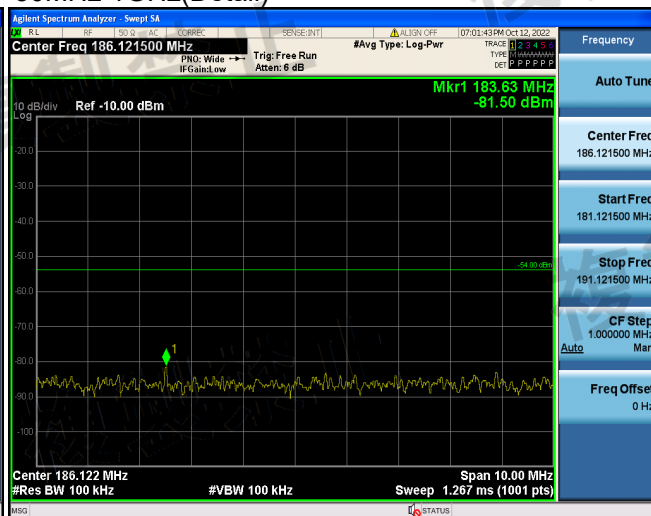
Rx1

Ch.102: 5510MHz

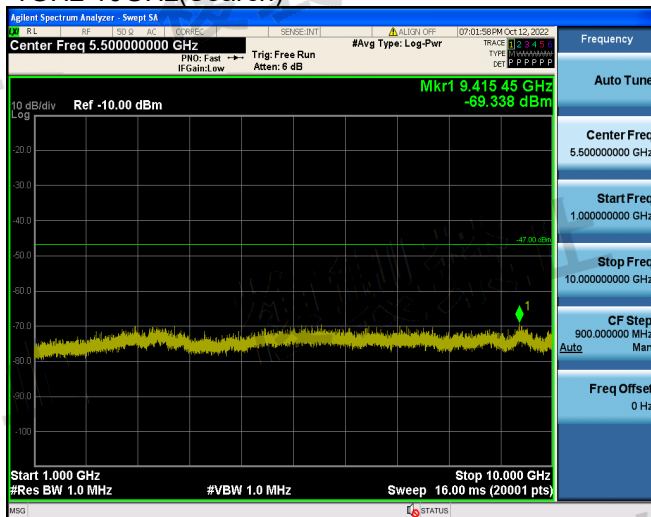
30MHz-1GHz(Search)



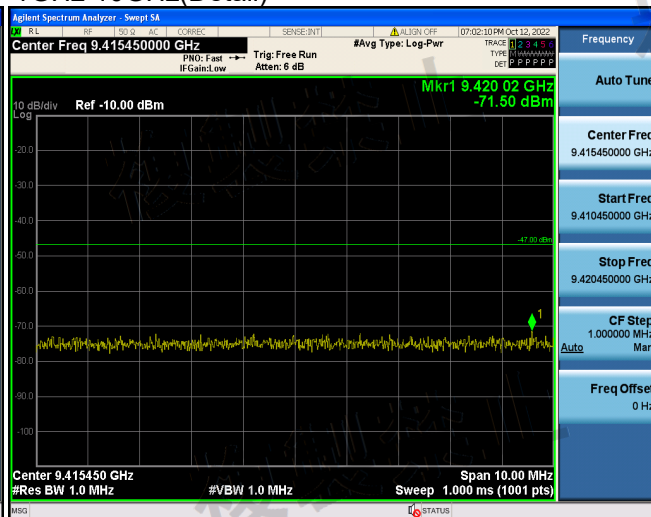
30MHz-1GHz(Detail)



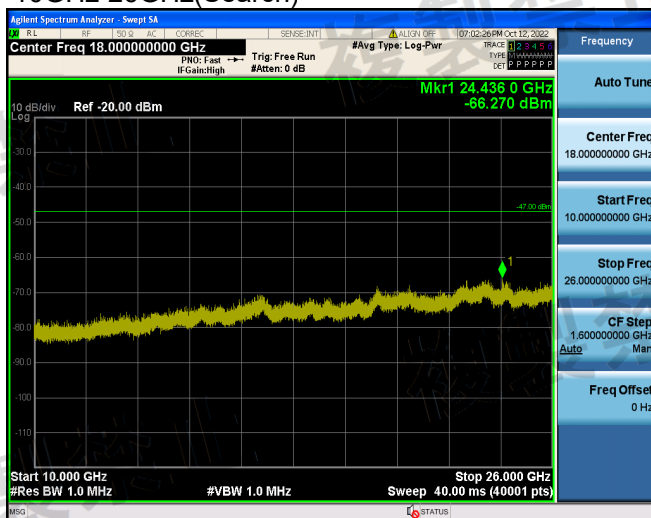
1GHz-10GHz(Search)



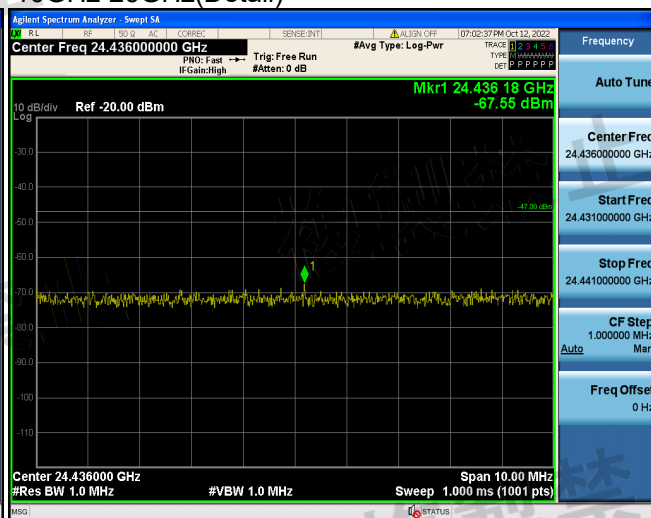
1GHz-10GHz(Detail)

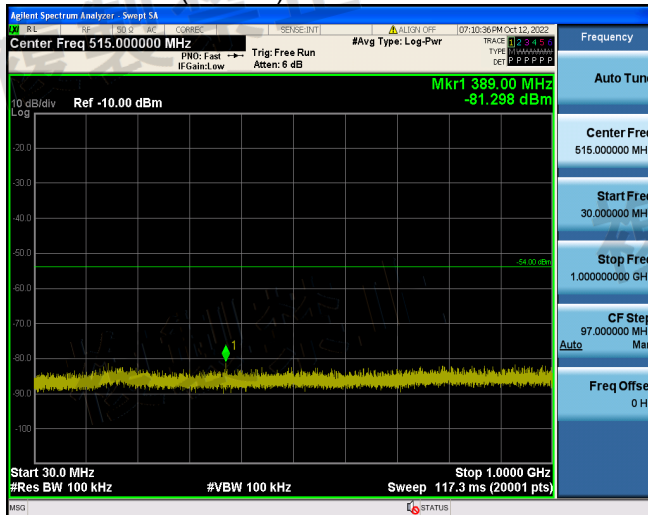


10GHz-26GHz(Search)

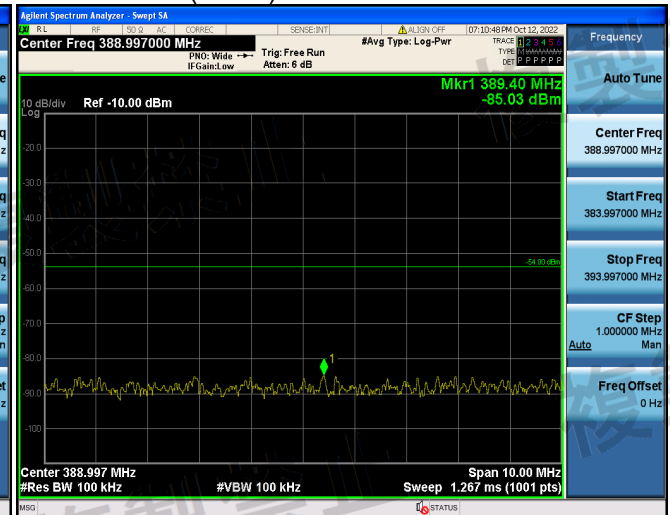


10GHz-26GHz(Detail)

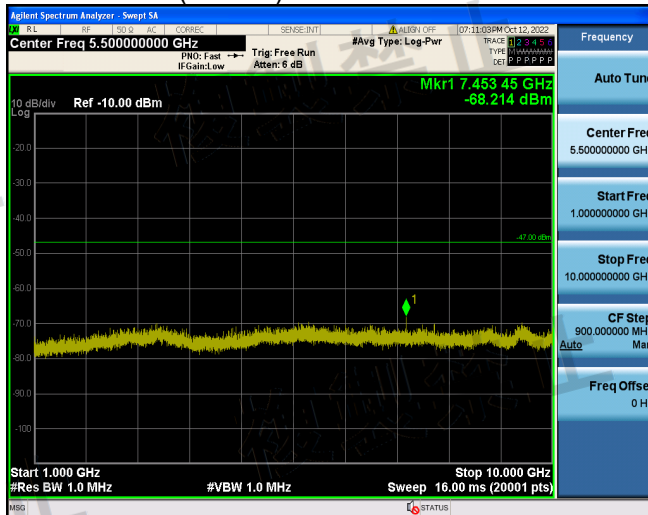


Ch.118: 5590MHz
30MHz-1GHz(Search)

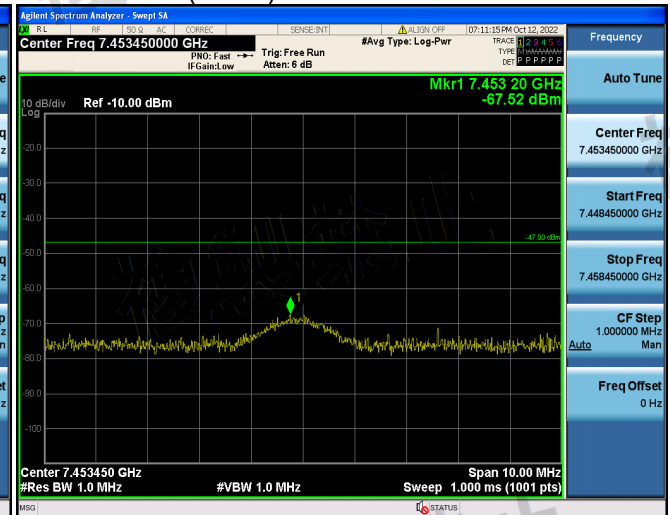
30MHz-1GHz(Detail)



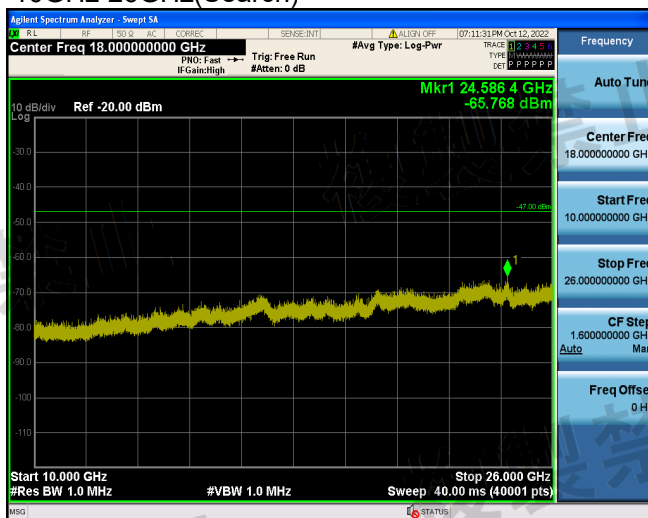
1GHz-10GHz(Search)



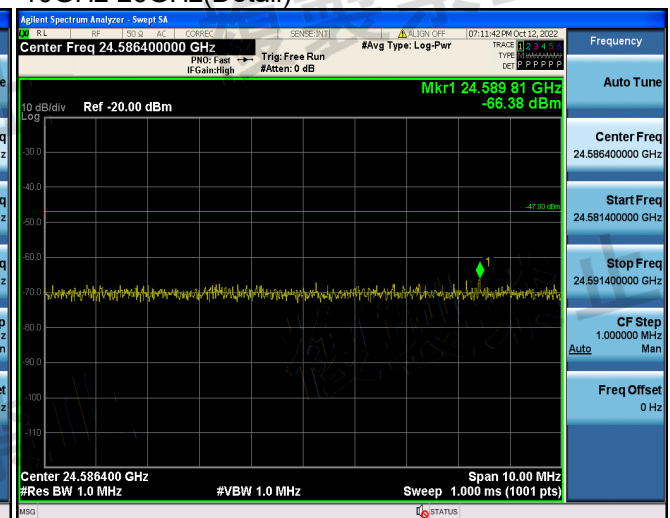
1GHz-10GHz(Detail)

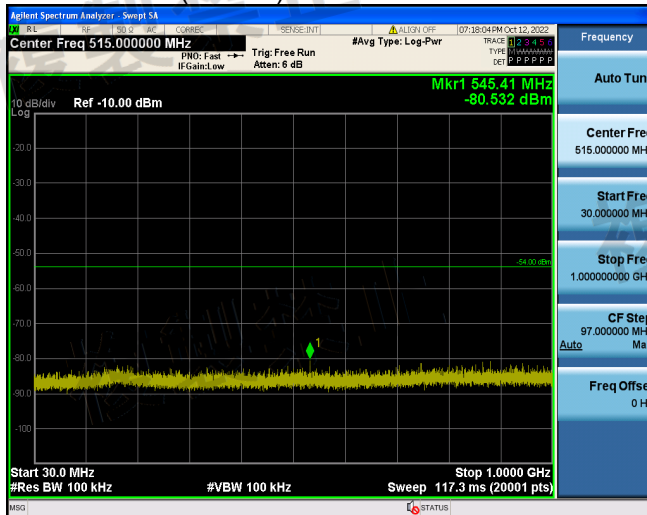


10GHz-26GHz(Search)

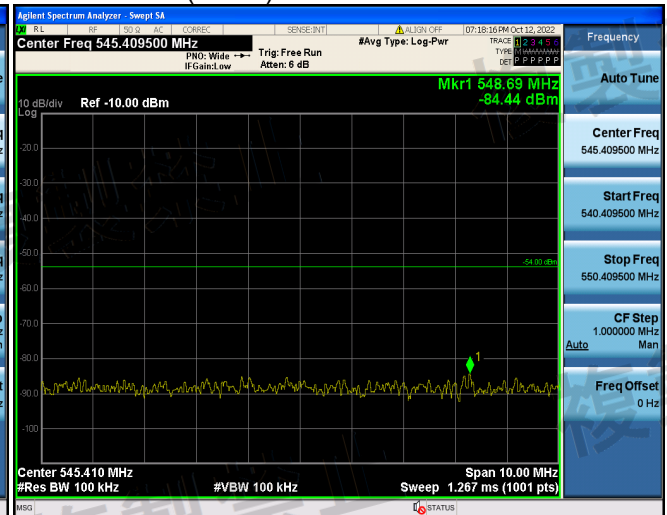


10GHz-26GHz(Detail)

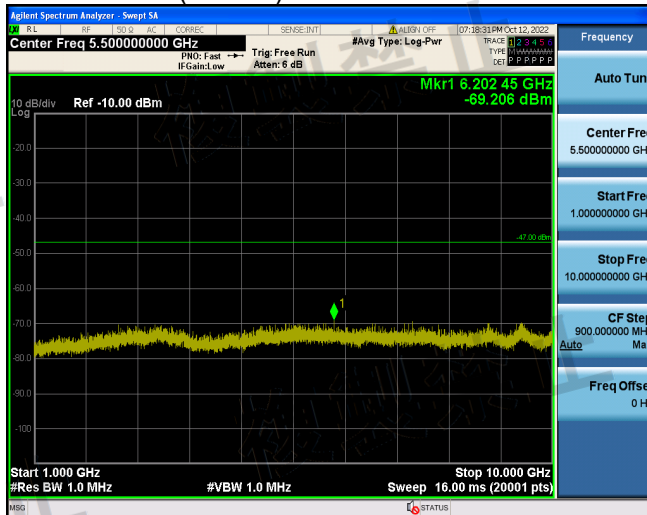


Ch.142: 5710MHz
30MHz-1GHz(Search)

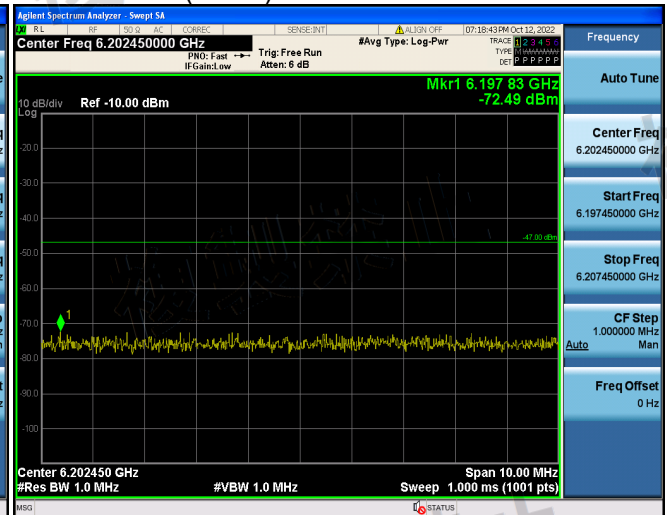
30MHz-1GHz(Detail)



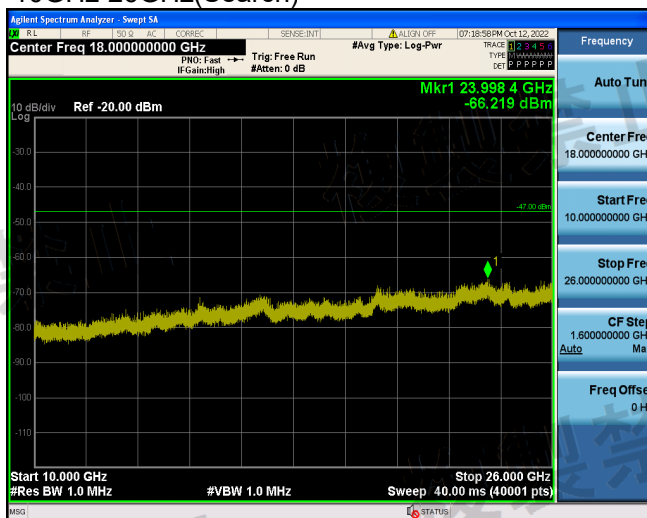
1GHz-10GHz(Search)



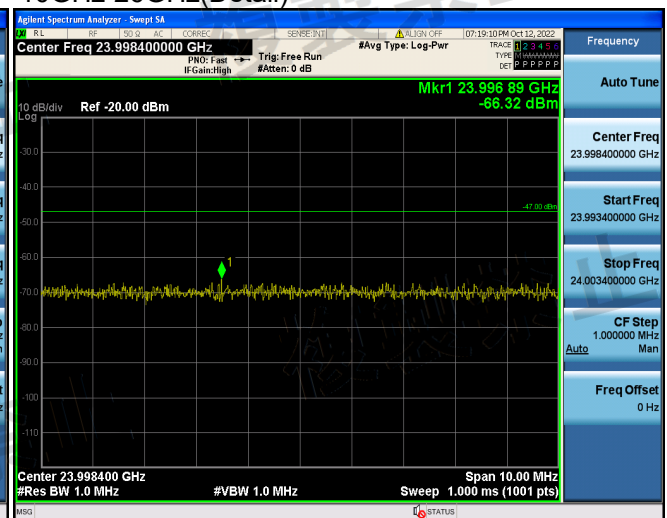
1GHz-10GHz(Detail)



10GHz-26GHz(Search)



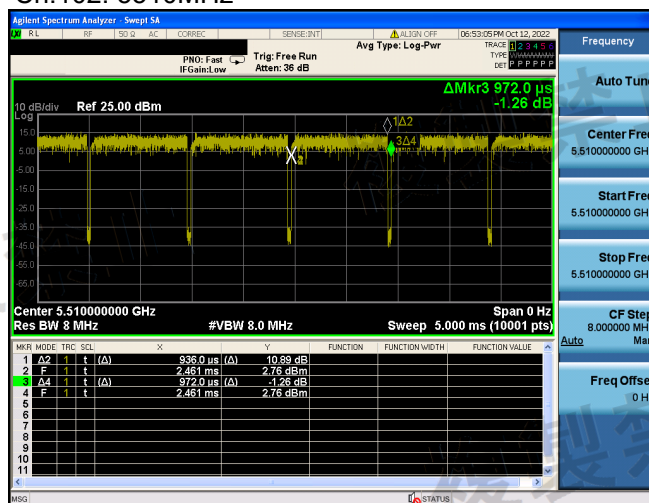
10GHz-26GHz(Detail)



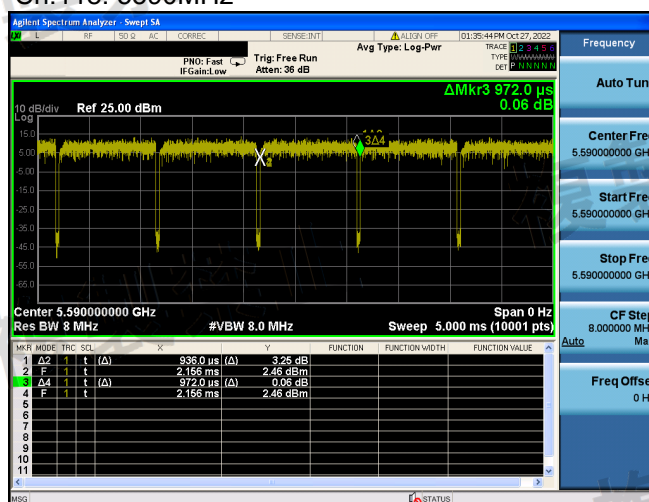
9.8 送信バースト長 Burst length of transmitted signals

Tx1

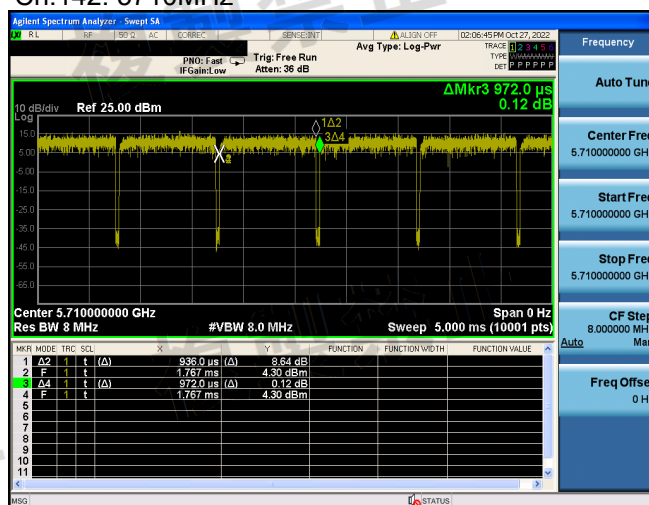
Ch.102: 5510MHz



Ch.118: 5590MHz



Ch.142: 5710MHz



9. 測定チャート

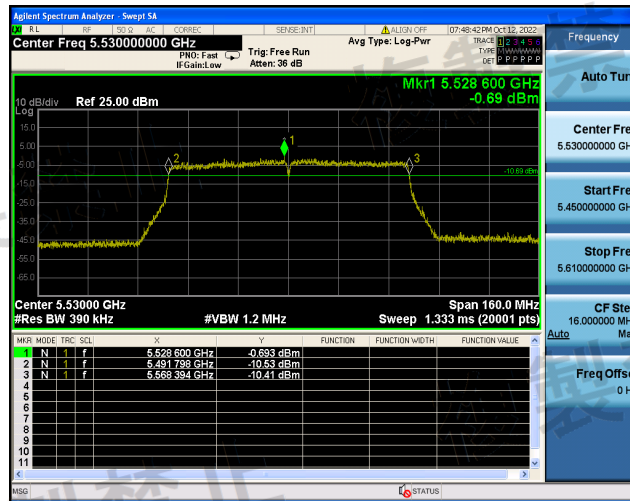
Test chart

9.1 周波数偏差 Frequency tolerance

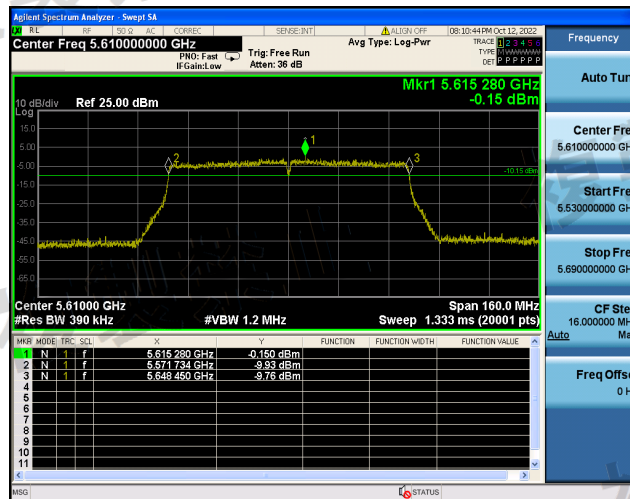
802.11ac80

Tx1

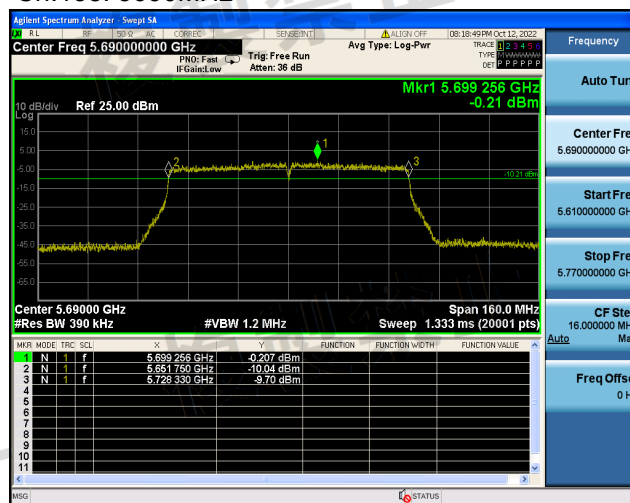
Ch.106: 5530MHz



Ch.122: 5610MHz



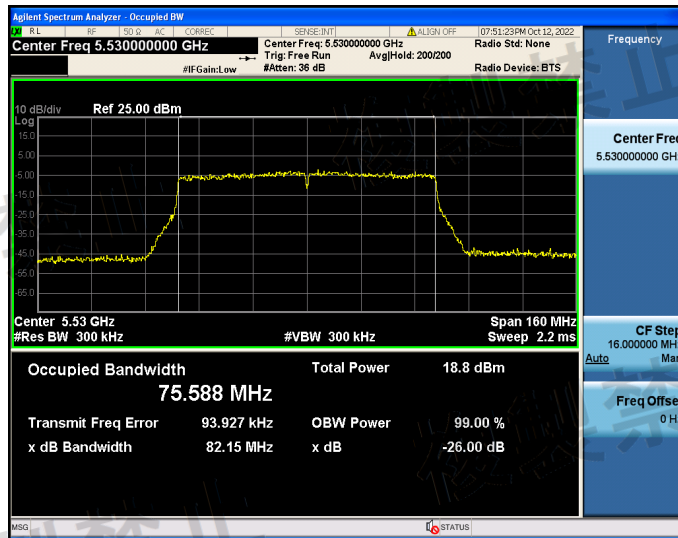
Ch.138: 5690MHz



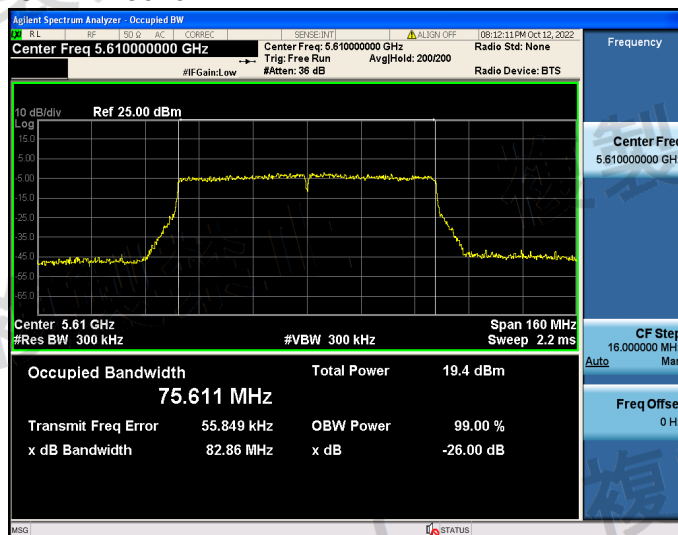
9.2 占有周波数帯幅 Occupied bandwidth

Tx1

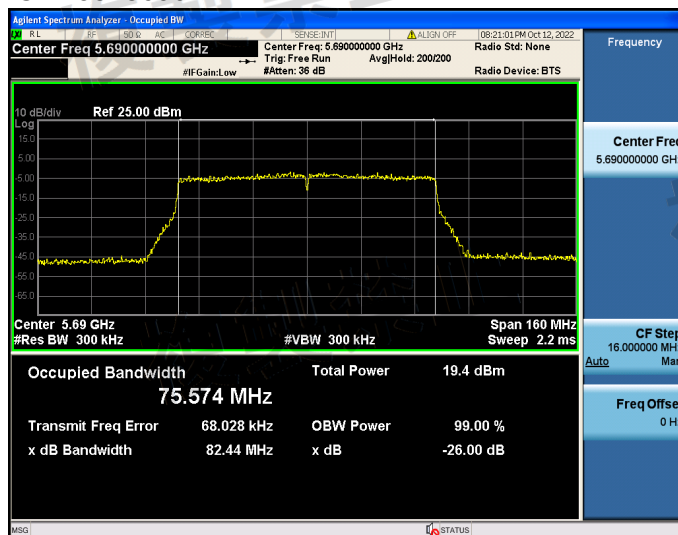
Ch.106: 5530MHz



Ch.122: 5610MHz



Ch.138: 5690MHz

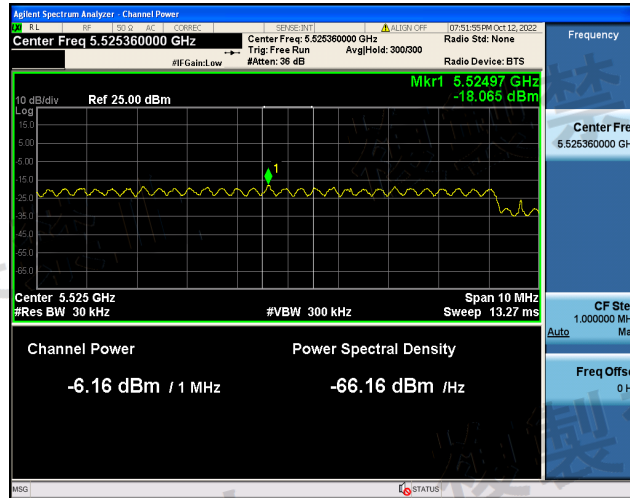


9.3 空中線電力の偏差

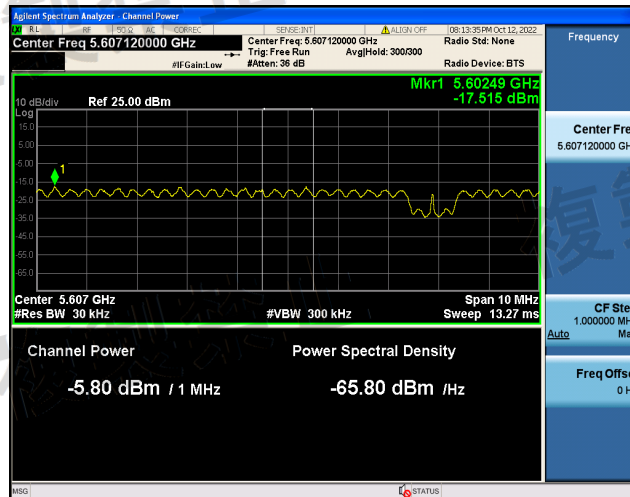
RF output power tolerance

Tx1

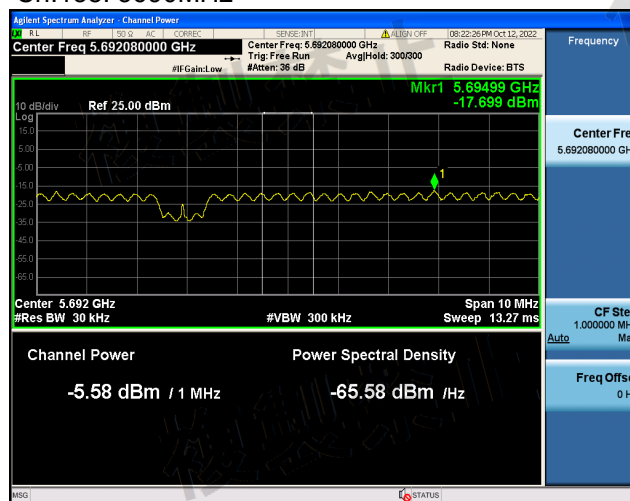
Ch.106: 5530MHz



Ch.122: 5610MHz

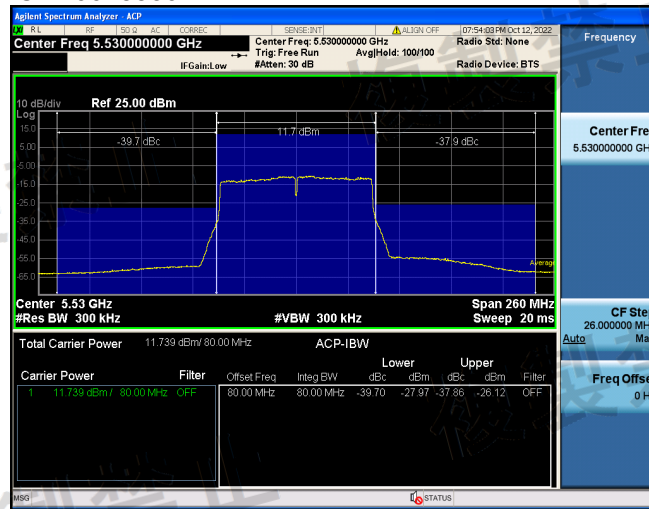


Ch.138: 5690MHz

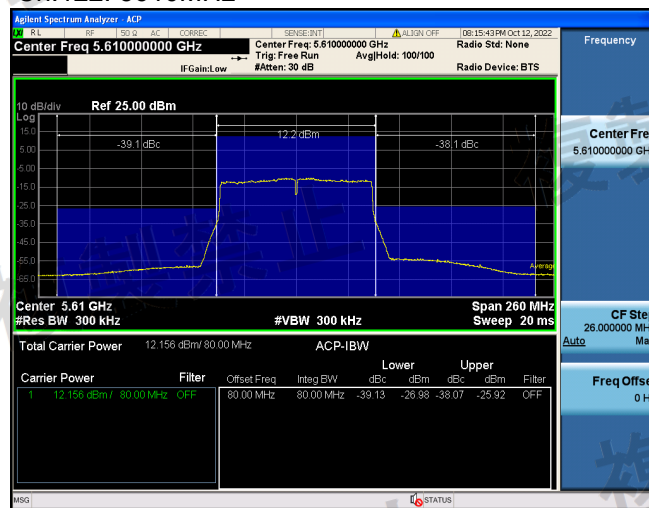


9.4 隣接チャネル漏洩電力 Adjacent Channel Leakage Power

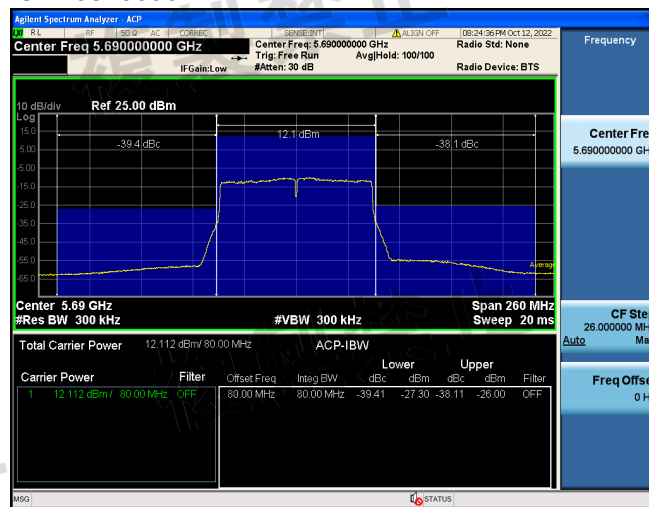
Tx1
Ch.106: 5530MHz



Ch.122: 5610MHz



Ch.138: 5690MHz

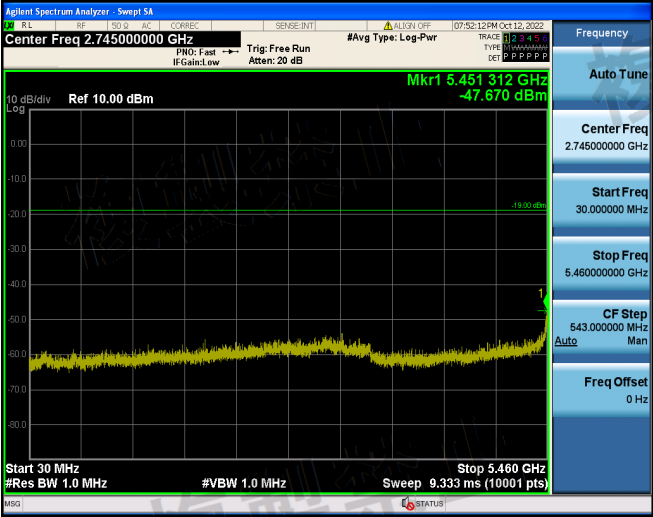


9.5 スプリアス発射又は不要発射の強度
Unwanted(Spurious) emission strength

Tx1

Ch.106: 5530MHz 30MHz
to 5460MHz(Search)

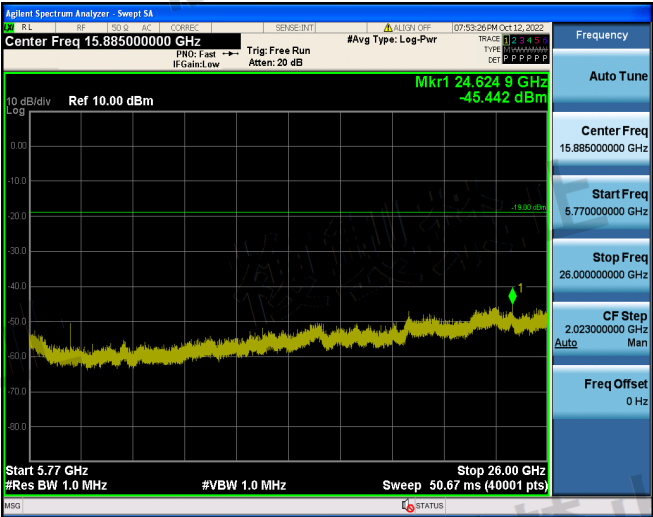
30MHz to 5460MHz(Detail)



NA

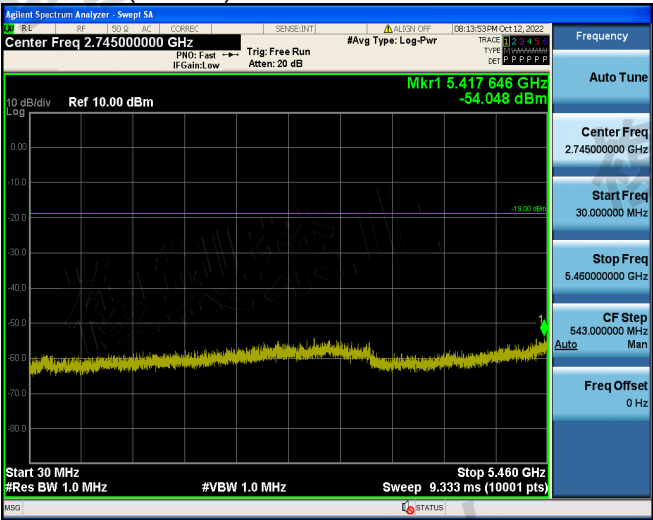
5770MHz to 26GHz(Search)

5770MHz to 26GHz(Detail)



NA

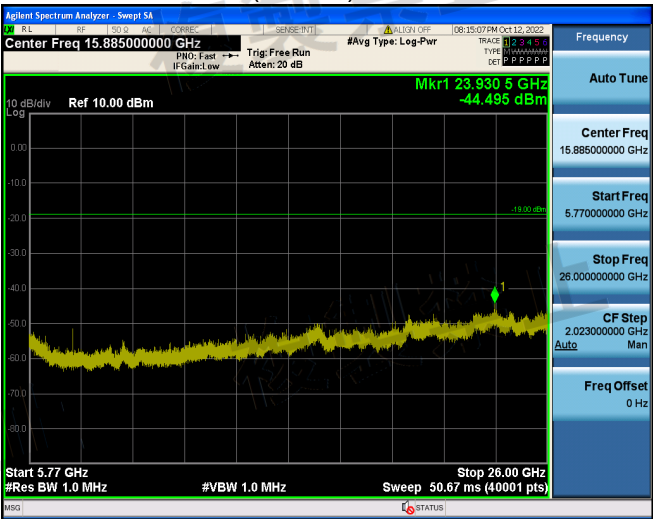
Ch.122: 5610MHz 30MHz to 5460MHz(Search)



30MHz to 5460MHz(Detail)

NA

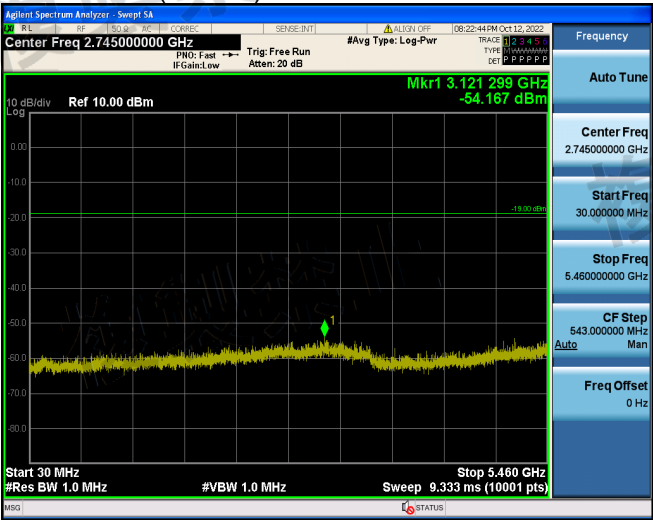
5770MHz to 26GHz(Search)



5770MHz to 26GHz(Detail)

NA

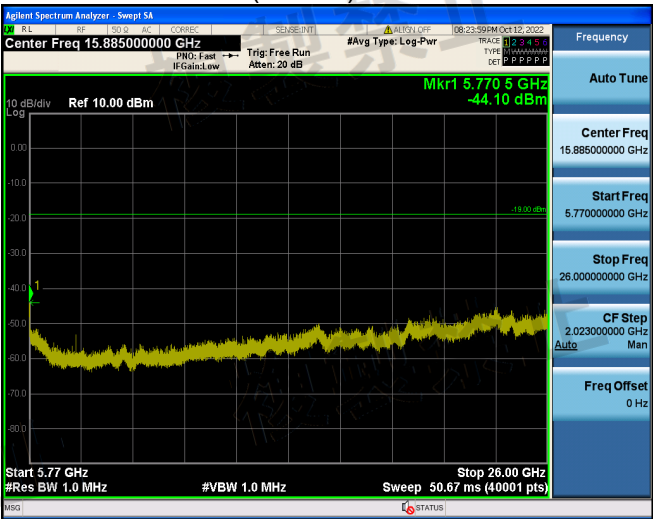
Ch.138: 5690MHz 30MHz
to 5460MHz(Search)



30MHz to 5460MHz(Detail)

NA

5770MHz to 26GHz(Search)



5770MHz to 26GHz(Detail)

NA

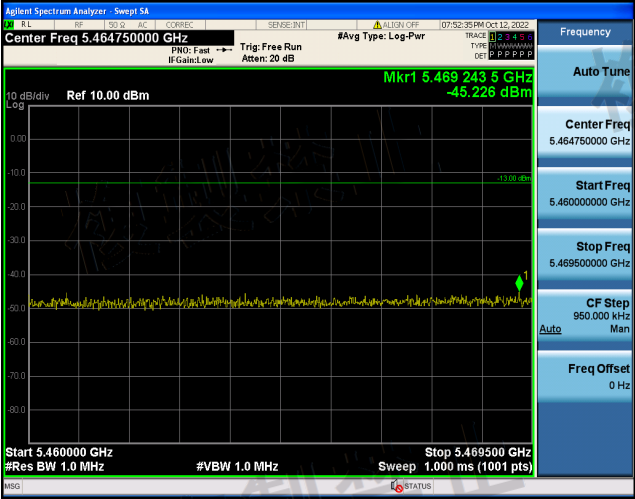
9.6 帶域外漏洩電力
Out-band leakage power

Tx1

Ch.106: 5530MHz

5460 to 5469.5MHz(Search)

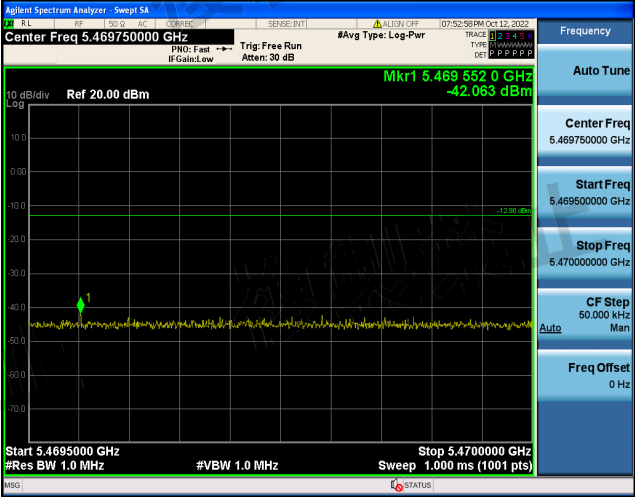
5460 to 5469.5MHz(Detail)



NA

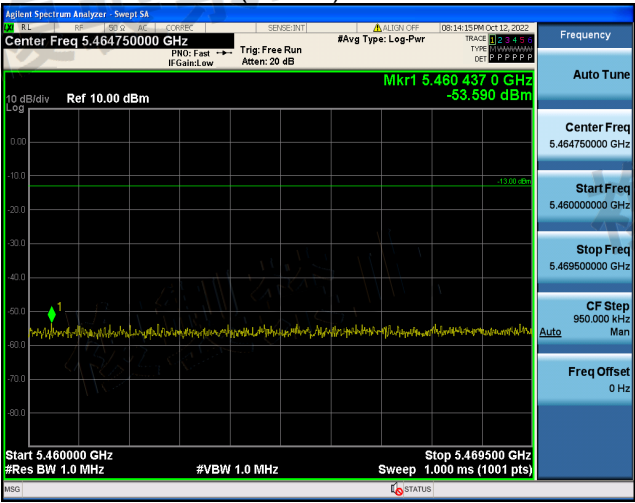
5469.5 to 5470MHz(Search)

5469.5 to 5470MHz(Detail)



NA

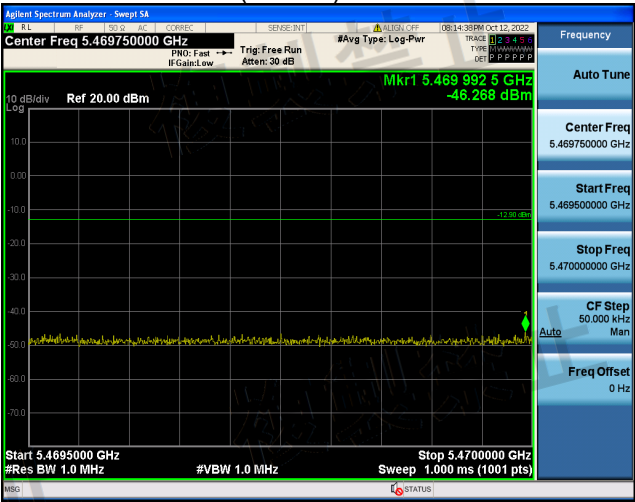
Ch.122: 5610MHz
5460 to 5469.5MHz(Search)



5460 to 5469.5MHz(Detail)

NA

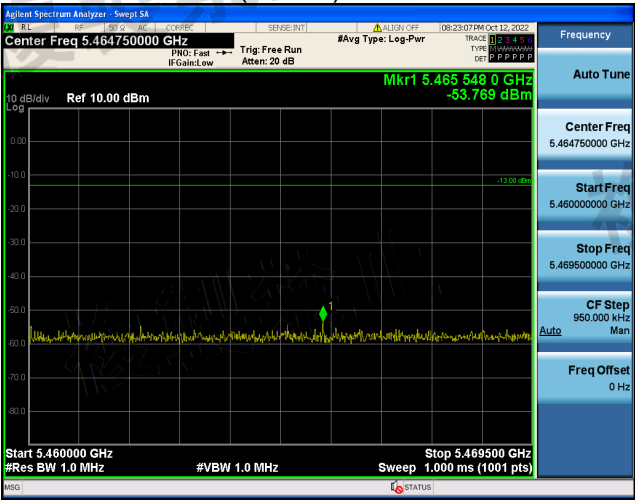
5469.5 to 5470MHz(Search)



5469.5 to 5470MHz(Detail)

NA

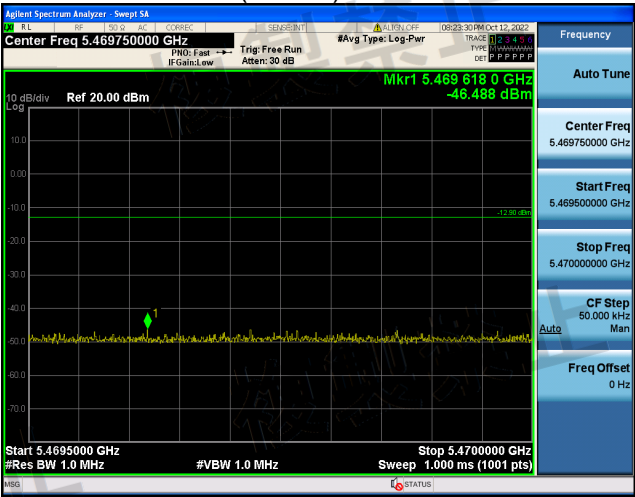
Ch.138: 5690MHz
5460 to 5469.5MHz(Search)



5460 to 5469.5MHz(Detail)

NA

5469.5 to 5470MHz(Search)



5469.5 to 5470MHz(Detail)

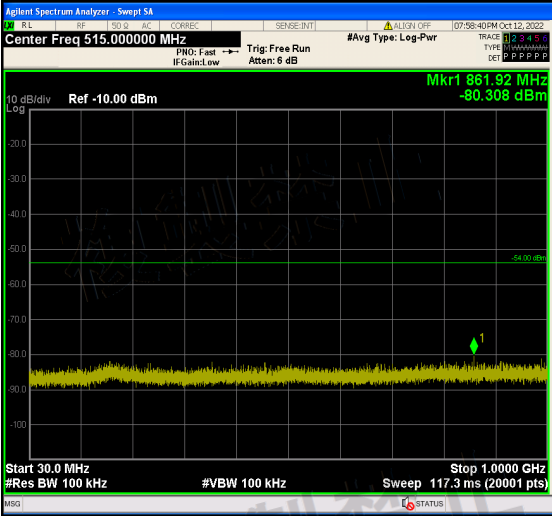
NA

9.7 副次的 に 発 する 電 波 等 の 限 度
Secondary emitted radio wave strength

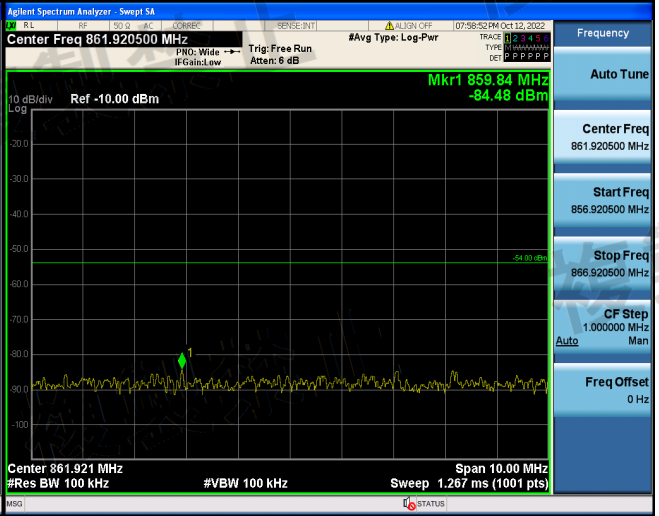
RX1

Ch.106: 5530MHz

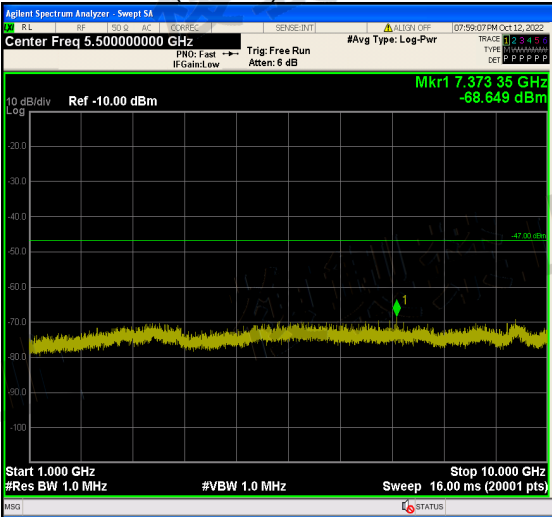
30MHz-1GHz(Search)



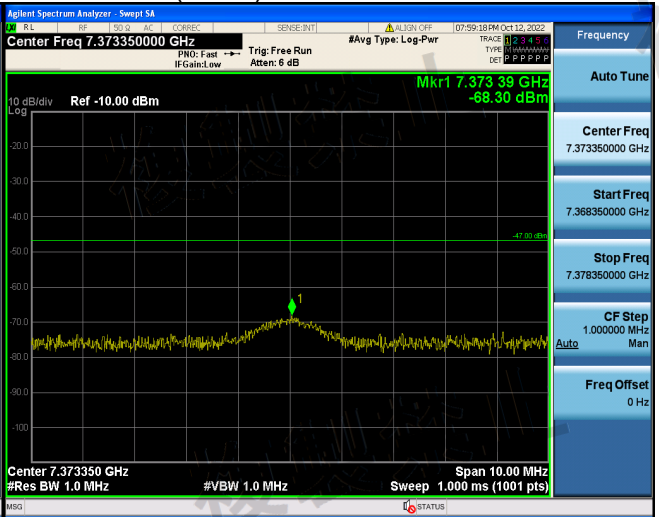
30MHz-1GHz(Detail)



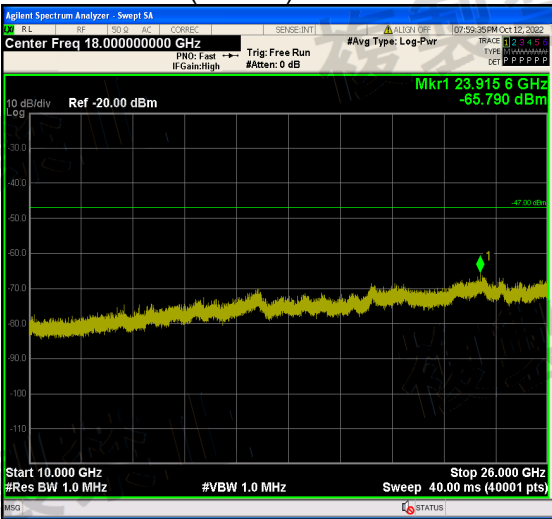
1GHz-10GHz(Search)



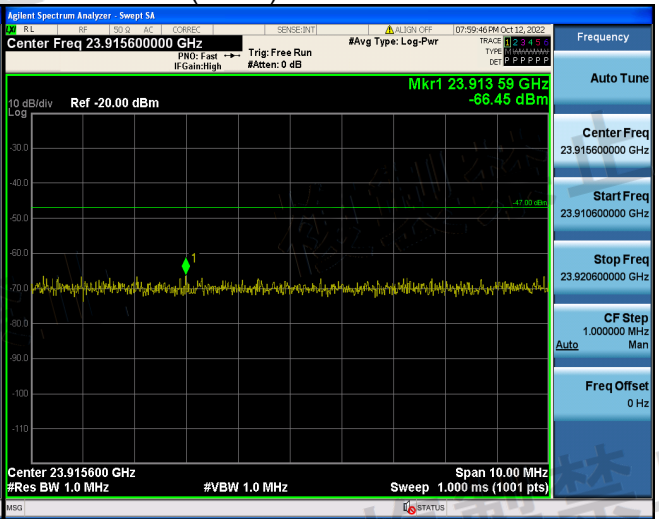
1GHz-10GHz(Detail)



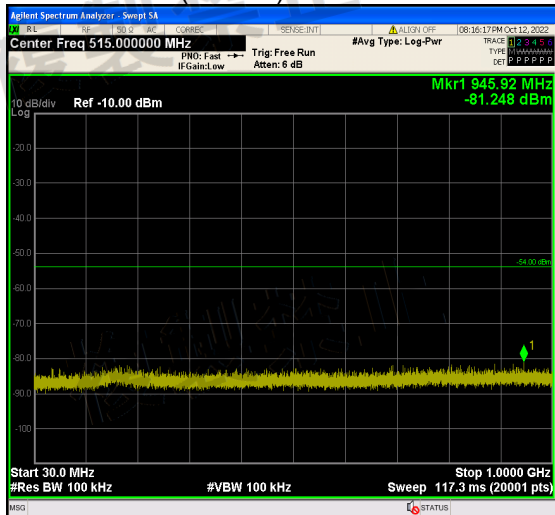
10GHz-26GHz(Search)



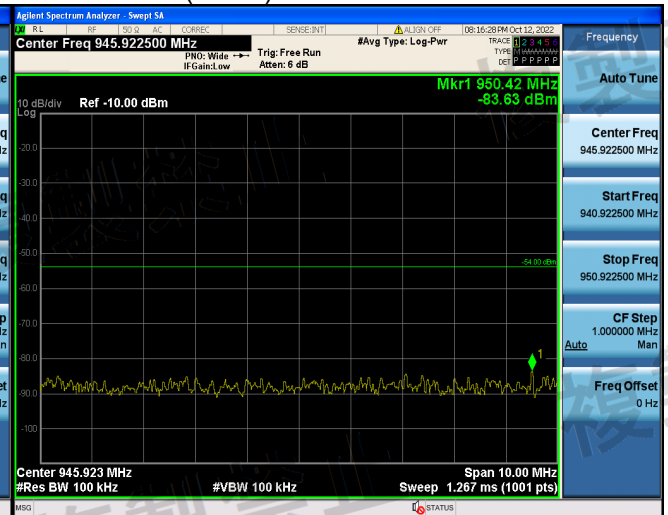
10GHz-26GHz(Detail)



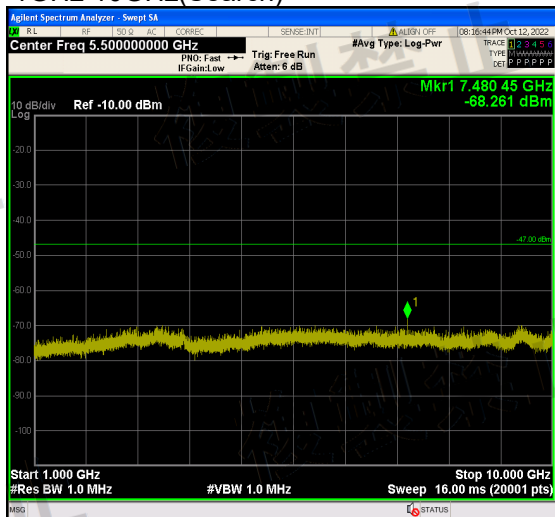
Ch.122: 5610MHz
30MHz-1GHz(Search)



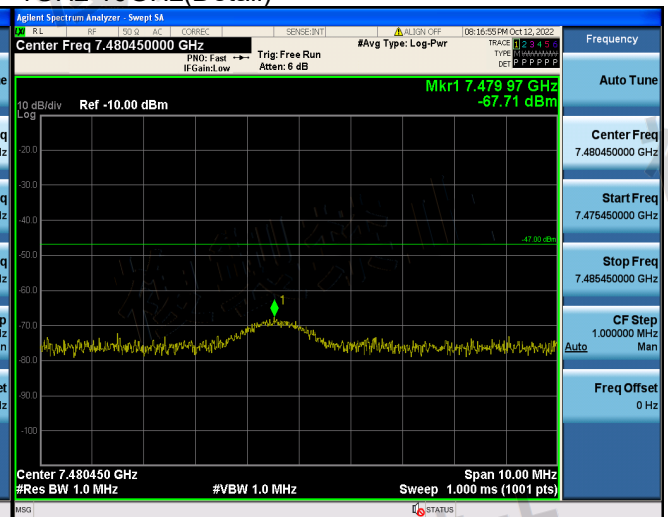
30MHz-1GHz(Detail)



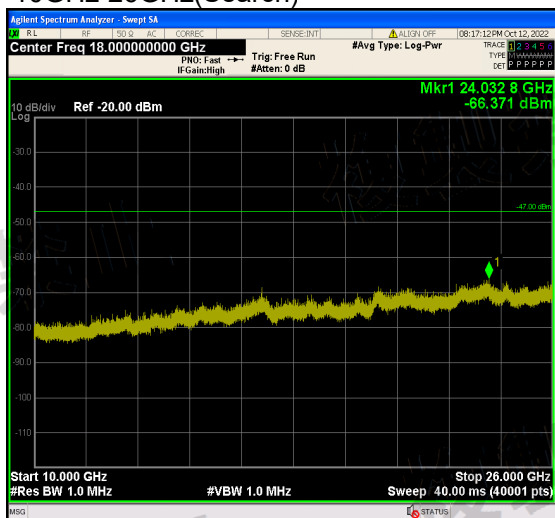
1GHz-10GHz(Search)



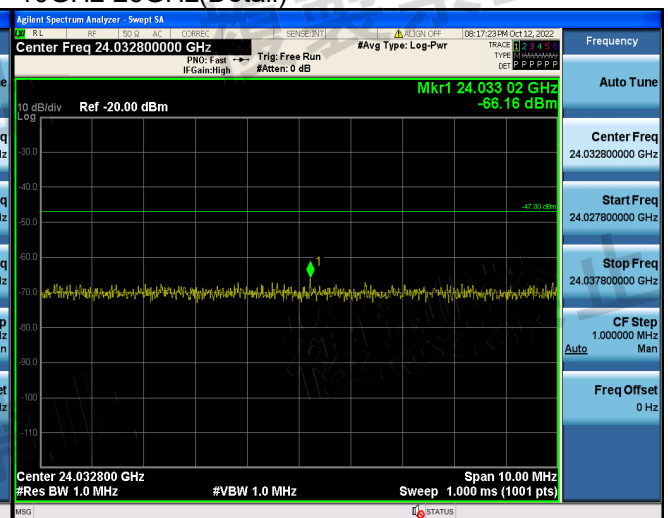
1GHz-10GHz(Detail)



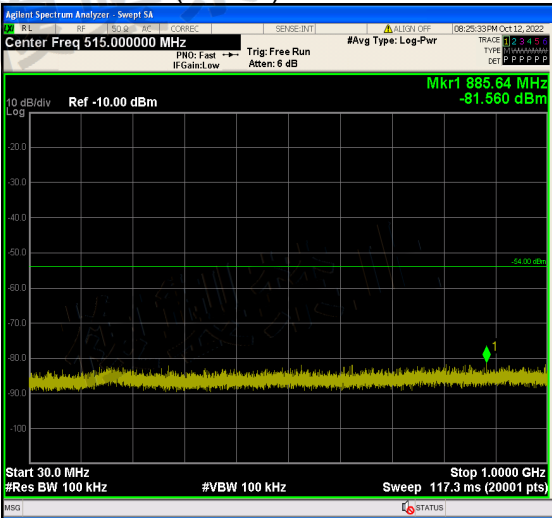
10GHz-26GHz(Search)



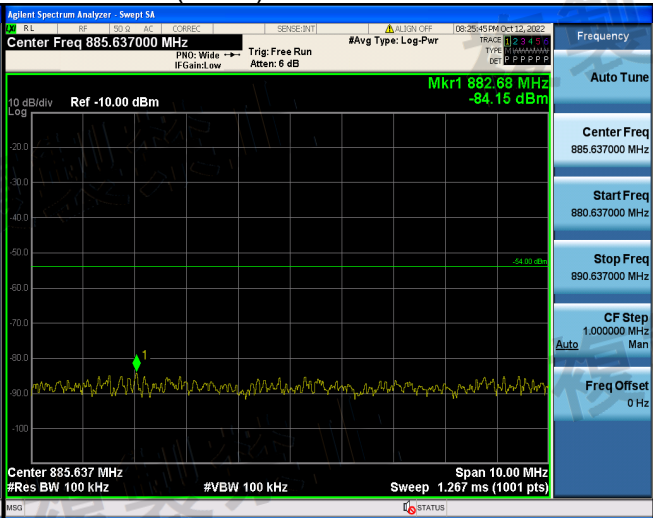
10GHz-26GHz(Detail)



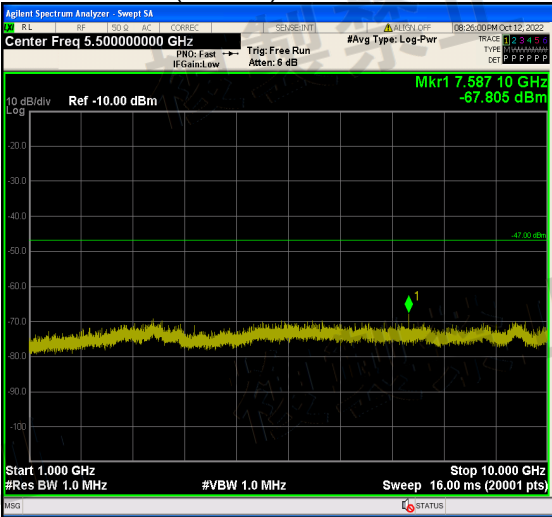
Ch.138: 5690MHz
30MHz-1GHz(Search)



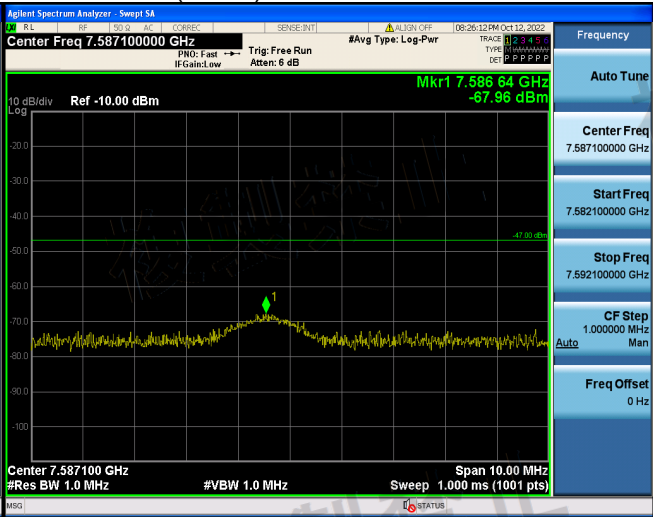
30MHz-1GHz(Detail)



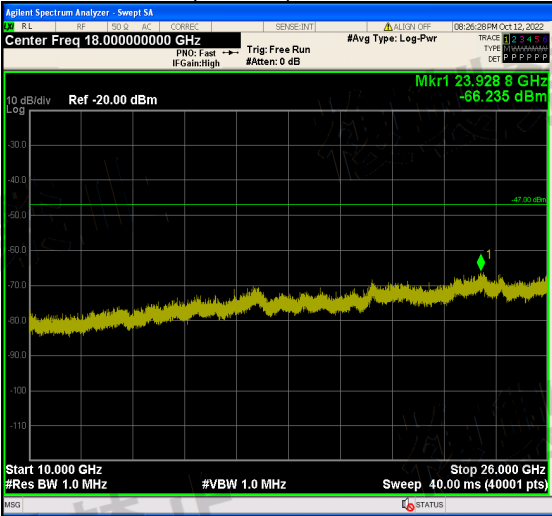
1GHz-10GHz(Search)



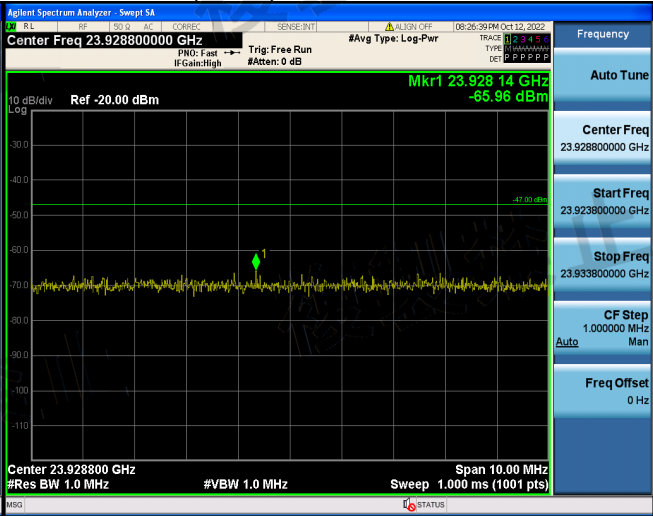
1GHz-10GHz(Detail)



10GHz-26GHz(Search)



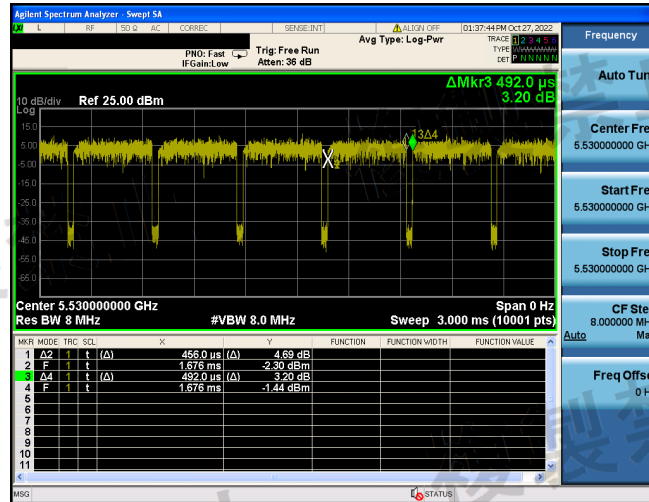
10GHz-26GHz(Detail)



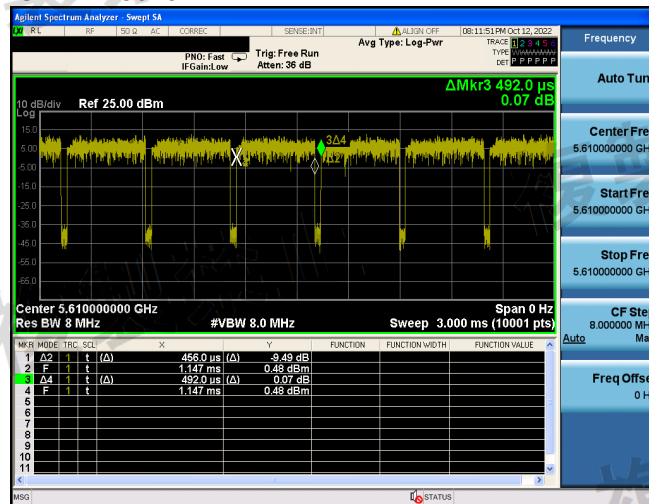
9.8 送信バースト長 Burst length of transmitted signals

Tx1

Ch.106: 5530MHz



Ch.122: 5610MHz



Ch.138: 5690MHz

