

試験報告書

TEST REPORT

Report number 報告書番号 : KR0140-JMIC-2022-0009

Issue date 発行日 : 2022-05-09

申請者 Applicant	:	InterSolutionMarketing, Inc. 150-0013 東京都渋谷区恵比寿 1-24-14 EXOS 恵比寿ビル 5F
型式又は名称 Model name	:	SP105
製造番号 Serial number	:	N/A
測定規格 Test procedure	:	証明規則第2条第19号の規定する特定無線設備の2.4GHz帯高度化小電力データ通信システム
測定方法 Test method	:	総務省告示第88号別表第43
測定日 Date of test	:	2022-04-07 ~ 2022-04-07
試験設備名 Name of facility	:	EMC Labs Co., Ltd.
試験結果 Test Result	:	適合

この試験報告書における測定結果は試験された装置にのみ該当します。
また、完全な複製を除き、当試験所の文書による承認なしに、報告書の一部だけを複製することを禁止します。

測定者;
Tested by;

Dae Seong, Choi

承認者;
Approved by;

Yong Min, Won

1. Summary of Test

1. Purpose of test

Ordinance on Technical Standards Conformity Certification of Specified Radio Equipment
2.4GHz Band wide band low power data communication System

2. Standards

Certification Ordinance Article 2 Clause 1 Item19

1) Test Methods

Ministry of Internal Affairs and Communications Notification Article 88 Appendix 43

2) Deviation from standards

None

3. List of applied test to the EUT

Classification of EUT	Condition	Result
Frequency Tolerance	Conducted	PASS
Occupied Bandwidth	Conducted	PASS
Spread Bandwidth	Conducted	PASS
Spurious Emission Intensity	Conducted	PASS
RF Output Power Tolerance	Conducted	PASS
Secondary Emitted Radiated Wave Strength	Conducted	PASS
Dwell Time	Conducted	PASS
Interference Prevention Function	Conducted	PASS

1) Test set up

Table-Top

2) Modification to the EUT by laboratory

None

2. Test Information

1. Applicant

InterSolutionMarketing, Inc.

150-0013 東京都渋谷区恵比寿 1-24-14 EXOS 恵比寿ビル 5F

2. Equipment under test

SPIDER ST1

3. Model number

SP105

4. Serial number

-

5. Size

(W) 86.3 × (D) 52.0 × (H) 27.5 mm

6. Terminal limitation

-20°C to 60°C

7. RF Specification Frequency range

Bluetooth BDR, EDR : 2402-2480MHz 79 Channels

8. Number of RF Channels

Bluetooth BDR, EDR : 79 Channels

9. Modulation method

Bluetooth BDR, EDR : GFSK, $\pi/4$ DQPSK, 8DPSK

10. Data rate

-

10. Variation of the family model(s)

None

3. Configuration of equipment

1. Frequency Tolerance, Occupied Bandwidth, Spread Bandwidth, Time of occupancy hopping frequency, Unwanted(Spurious)Emission Strength, Dwell Time, Secondary Emitted Radio Wave Strength



2. RF Output Power



4. 試驗結果

Test results

BDR

Environment of test room	Date of test	2022-04-07
	Temperature	25.2 °C
	Humidity	46.8 %

Peak Antenna Gain	0.50	dBi
Declaration Output Power	0.5	mW/MHz
Declaration Output Power	-3.0103	dBm/MHz
E.I.R.P.	-2.5103	dBm/MHz
Input Power Voltage	3.7	VDC

Frequency equal to the Transmission rate		1	MHz
Transmission Time	ON TIME	2.875	ms
	OFF TIME	0.875	ms
	Ratio	0.7667	
Packet Type (Mode)		DH5	mode
Transmit Speed		1	MHz

Test category ;	2.4GHz Band Low-Power Data Communication System (Bluetooth [GFSK])
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 Frequency	MHz	2402	2441	2480	Result	Limit	Note
Channel Number	Ch.	0	39	78	---	---	
Frequency Measurements	MHz	2401.962131	2440.961636	2479.960979	---	---	
Frequency Tolerance	ppm	-15.76561	-15.71651	-15.73427	PASS	$\pm 50 \times 10^{-6}$ (50ppm)	
Occupied Bandwidth	MHz	---	78.1211	---	PASS	83.5MHz or below	
Spread Bandwidth	MHz	---	71.1358	---	PASS	500kHz or more	
RF Output Power	mW/MHz	0.128619	0.127734	0.123967	PASS	3mW/MHz or below	
RF Output Power Tolerance	%	-74.276196	-74.453277	-75.206651	PASS	+20 to -80%	
Unwanted (Spurious) Emission Strength	30 to 2387MHz	uW/MHz	---	0.003882	---	PASS	2.5uW/MHz or below
		MHz	---	454.000	---	----	
	2387 to 2400MHz	uW/MHz	---	0.548277	---	PASS	25uW/MHz or below
		MHz	---	2399.970	---	----	
	2483.5 to 2496.5MHz	uW/MHz	---	0.013122	---	PASS	25uW/MHz or below
		MHz	---	2483.560	---	----	
	2496.5 to 12500MHz	uW/MHz	---	0.021677	---	PASS	2.5uW/MHz or below
		MHz	---	4830.000	---	----	
Secondary Emitted Radio Wave Strength	30 to 1000MHz	nW	---	0.005035	---	PASS	4nW or below
		MHz	---	454.900	---	----	
	1000 to 10000MHz	nW	---	0.833681	---	PASS	20nW or below
		MHz	---	4879.000	---	----	
	10000 to 12500MHz	nW	---	0.139637	---	PASS	20nW or below
		MHz	---	12355.000	---	----	
Time of occupancy hopping frequency	sec	---	0.002875	---	PASS	0.4sec or below	
	sec	---	0.276000	---	PASS	0.4sec or below	0.4sec*Spread rate
Spreading Factor	---		71.135800		PASS	5 or more	
Interference Prevention Function		Good			PASS		

4. 試驗結果

Test results

BDR AFH

Environment of test room	Date of test	2022-04-07
	Temperature	25.2 °C
	Humidity	46.8 %

Peak Antenna Gain	0.50	dBi
Declaration Output Power	2	mW/MHz
Declaration Output Power	3.0103	dBm/MHz
E.I.R.P.	3.5103	dBm/MHz
Input Power Voltage	3.7	VDC

Frequency equal to the Transmission rate		1	MHz
Transmission Time	ON TIME	2.878	ms
	OFF TIME	0.874	ms
	Ratio	0.7671	
Packet Type (Mode)		---	mode
Transmit Speed		1	MHz

Test category ;	2.4GHz Band Low-Power Data Communication System (Bluetooth [GFSK])
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 Frequency		Low	Middle	High	Result	Limit	Note
Channel Number		Ch.	---	---	---	---	
Frequency Measurements		MHz	---	---	---	---	
Frequency Tolerance		ppm	---	---	---	---	
Occupied Bandwidth		MHz	19.5558	19.5783	19.5663	PASS	83.5MHz or below
Spread Bandwidth		MHz	17.8104	18.2042	18.0122	PASS	500kHz or more
RF Output Power		mW/MHz	0.518201	0.500035	0.492726	PASS	3mW/MHz or below
RF Output Power Tolerance		%	-74.089943	-74.998248	-75.363711	PASS	+20 to -80%
Unwanted (Spurious) Emission Strength	30 to 2387MHz	uW/MHz	0.004121	0.003027	0.002588	PASS	2.5uW/MHz or below
		MHz	447.000	471.000	506.000	----	
	2387 to 2400MHz	uW/MHz	0.669885	0.000315	0.002588	PASS	25uW/MHz or below
		MHz	2399.990	2387.030	2396.910	----	
	2483.5 to 2496.5MHz	uW/MHz	0.000296	0.000557	0.000385	PASS	25uW/MHz or below
		MHz	2485.100	2485.100	2483.560	----	
	2496.5 to 12500MHz	uW/MHz	0.021878	0.014997	0.009247	PASS	2.5uW/MHz or below
		MHz	4820.000	4870.000	4930.000	----	
Secondary Emitted Radio Wave Strength	30 to 1000MHz	nW	---	---	---	---	
		MHz	---	---	---	---	
	10000 to 12500MHz	nW	---	---	---	---	
		MHz	---	---	---	---	
	10000 to 12500MHz	nW	---	---	---	---	
		MHz	---	---	---	---	
Time of occupancy hopping frequency	sec	0.003	0.003	0.003	PASS	0.4sec or below	
	sec	0.273	0.279	0.279	PASS	0.4sec or below	0.4sec*Spread rate
Spreading Factor		---	17.810	18.204	18.012	PASS	5 or more
Interference Prevention Function			Good			PASS	

*The low, middle, high in Measurement Frequency represents the range frequency.
(Low: 2402-2421 MHz, Middle: 2432-2451 MHz, High: 2461-2480 MHz)

4. 試驗結果

Test results

EDR

Environment of test room	Date of test	2022-04-07
	Temperature	25.2 °C
	Humidity	46.8 %

Peak Antenna Gain	0.50	dBi
Declaration Output Power	0.4	mW/MHz
Declaration Output Power	-3.9794	dBm/MHz
E.I.R.P.	-3.4794	dBm/MHz
Input Power Voltage	3.7	VDC

Frequency equal to the Transmission rate		1	MHz
Transmission Time	ON TIME	2.876	ms
	OFF TIME	0.870	ms
	Ratio	0.7678	
Packet Type (Mode)		3DH5	mode
Transmit Speed		1	MHz

Test category ;	2.4GHz Band Low-Power Data Communication System (Bluetooth [8DPSK])
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 Frequency		MHz	2402	2441	2480	Result	Limit	Note
Channel Number		Ch.	0	39	78	---	---	
Frequency Measurements		MHz	2401.962082	2440.961388	2479.960673	---	---	
Frequency Tolerance		ppm	-15.78601	-15.81811	-15.85766	PASS	±50×10 ⁻⁶ (50ppm)	
Occupied Bandwidth		MHz	---	78.2226	---	PASS	83.5MHz or below	
Spread Bandwidth		MHz	---	71.2886	---	PASS	500kHz or more	
RF Output Power		mW/MHz	0.093059	0.091150	0.086449	PASS	3mW/MHz or below	
RF Output Power Tolerance		%	-76.735227	-77.212388	-78.387808	PASS	+20 to -80%	
Unwanted (Spurious) Emission Strength	30 to 2387MHz	uW/MHz	---	0.003090	---	PASS	2.5uW/MHz or below	
		MHz	---	447.000	---	----		
	2387 to 2400MHz	uW/MHz	---	7.498942	---	PASS	25uW/MHz or below	
		MHz	---	2399.870	---	----		
	2483.5 to 2496.5MHz	uW/MHz	---	0.039084	---	PASS	25uW/MHz or below	
		MHz	---	2483.620	---	----		
	2496.5 to 12500MHz	uW/MHz	---	0.015417	---	PASS	2.5uW/MHz or below	
		MHz	---	4840.000	---	----		
Secondary Emitted Radio Wave Strength	30 to 1000MHz	nW	---	0.005023	---	PASS	4nW or below	
		MHz	---	375.300	---	----		
	10000 to 12500MHz	nW	---	0.839460	---	PASS	20nW or below	
		MHz	---	4879.000	---	----		
	10000 to 12500MHz	nW	---	0.148594	---	PASS	20nW or below	
		MHz	---	12208.000	---	----		
Time of occupancy hopping frequency		sec	---	0.002876	---	PASS	0.4sec or below	
		sec	---	0.276096	---	PASS	0.4sec or below	0.4sec×Spread rate
Spreading Factor		---		71.288600		PASS	5 or more	
Interference Prevention Function			Good			PASS		

4. 試驗結果

Test results

EDR AFH

Environment of test room	Date of test	2022-04-07
	Temperature	25.2 °C
	Humidity	46.8 %

Peak Antenna Gain	0.50	dBi
Declaration Output Power	1.5	mW/MHz
Declaration Output Power	1.7609	dBm/MHz
E.I.R.P.	2.2609	dBm/MHz
Input Power Voltage	3.7	VDC

Frequency equal to the Transmission rate		1	MHz
Transmission Time	ON TIME	2.870	ms
	OFF TIME	0.882	ms
	Ratio	0.7649	
Packet Type (Mode)		---	mode
Transmit Speed		1	MHz

Test category ;	2.4GHz Band Low-Power Data Communication System (Bluetooth [8DPSK])
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 Frequency		Low	Middle	High	Result	Limit	Note
Channel Number		Ch.	---	---	---	---	
Frequency Measurements		MHz	---	---	---	---	
Frequency Tolerance		ppm	---	---	---	---	
Occupied Bandwidth		MHz	19.8844	19.9382	19.8744	PASS	83.5MHz or below
Spread Bandwidth		MHz	17.9571	18.2638	18.2994	PASS	500kHz or more
RF Output Power		mW/MHz	0.364876	0.352200	0.341149	PASS	3mW/MHz or below
RF Output Power Tolerance		%	-75.674965	-76.519976	-77.256734	PASS	+20 to -80%
Unwanted (Spurious) Emission Strength	30 to 2387MHz	uW/MHz	0.003289	0.002472	0.002080	PASS	2.5uW/MHz or below
		MHz	459.000	480.000	499.000	----	
	2387 to 2400MHz	uW/MHz	4.178304	0.000904	0.002080	PASS	25uW/MHz or below
		MHz	2399.830	2387.130	2399.300	----	
	2483.5 to 2496.5MHz	uW/MHz	0.000897	0.000697	0.001002	PASS	25uW/MHz or below
		MHz	2483.880	2484.160	2483.550	----	
	2496.5 to 12500MHz	uW/MHz	0.017824	0.010520	0.287078	PASS	2.5uW/MHz or below
		MHz	4820.000	4890.000	4930.000	----	
Secondary Emitted Radio Wave Strength	30 to 1000MHz	nW	---	---	---	---	
		MHz	---	---	---	---	
	10000 to 12500MHz	nW	---	---	---	---	
		MHz	---	---	---	---	
	10000 to 12500MHz	nW	---	---	---	---	
		MHz	---	---	---	---	
Time of occupancy hopping frequency	sec	0.003	0.003	0.003	PASS	0.4sec or below	
	sec	0.276	0.279	0.276	PASS	0.4sec or below	0.4sec*Spread rate
Spreading Factor		---	17.957	18.264	18.299	PASS	5 or more
Interference Prevention Function		Good			PASS		

*The low, middle, high in Measurement Frequency represents the range frequency.
(Low: 2402-2421 MHz, Middle: 2432-2451 MHz, High: 2461-2480 MHz)

5. 試験機器リスト

Measurement equipment list

USE	Equipment	Company	Model No.	Serial No.	Calibrated by	Cal. Method	Cal. Due	Cal. Date
	EPM SERIES POWER METER	AGILENT	E4419B	MY41291980	HCT	ハ(c)	May. 2022	May. 14, 2021
	E-SERIES AVG POWER SENSOR	H.P	E9301A	US39210340	HCT	ハ(c)	May 2022	May 14, 2021
	E-SERIES AVG POWER SENSOR	AGILENT	E9301A	US39212396	HCT	ハ(c)	May 2022	May 14, 2021
	EMI TEST RECEIVER	ROHDE & SCHWARZ	ESW44	101952	HCT	ハ(c)	Apr. 2022	Apr. 9, 2021
X	TEMP & HUMID CHAMBER	JFM Engineering	JFMA-001	20200929-01	HCT	ハ(c)	Dec. 2022	Dec. 17, 2021
X	CONTROLLER	SAMWON TECHNOLOGY	TEMI2500	S7800VK191 0707	HCT	ハ(c)	Dec. 2022	Dec. 17, 2021
X	PSA SERIES SPECTRUM ANALYZER	AGILENT	E4440A	MY45304057	HCT	ハ(c)	Dec. 2022	Dec. 15, 2021
	MXG ANALOG SIGNAL GENERATOR	AGILENT	N5183A	MY50141890	HCT	ハ(c)	Dec. 2022	Dec. 15, 2021
X	SYSTEM DC POWER SUPPLY	AGILENT	6674A	MY53000118	HCT	ハ(c)	Dec. 2022	Dec. 15, 2021
	VECTOR SIGNAL GENERATOR	ROHDE & SCHWARZ	SMBV100A	257524	HCT	ハ(c)	Dec. 2022	Dec. 15, 2021
	BLUETOOTH TESTER	TESCOM	TC-3000A	3000A480088	HCT	ハ(c)	Dec. 2022	Dec. 15, 2021
	DIRECTIONAL COUPLER	AGILENT	773D	2839A01855	HCT	ハ(c)	Dec. 2022	Dec. 15, 2021
	ATTENUATOR	AGILENT	8493C	73193	HCT	ハ(c)	Dec. 2022	Dec. 15, 2021
	TERMINATION	HEWLETT PACKARD	909D	7492	HCT	ハ(c)	Dec. 2022	Dec. 15, 2021
	POWER DIVIDER	HEWLETT PACKARD	11636A	6916	HCT	ハ(c)	Dec. 2022	Dec. 15, 2021
	SLIDE-AC	DAEKWANG T&M CO.,LTD.	SV-1023	-	HCT	ハ(c)	-	-
	DIGITAL MULTIMETER	humantechstore	15B+	50561541WS	HCT	ハ(c)	Dec. 2022	Dec. 15, 2021
	Temperature and Humidity Datalogger	GEM	DT-172	201000251	HCT	ハ(c)	Apr. 2022	Apr. 14, 2021
	DFS MASTER DEVICE	NETGEAR	RAX50	6AJ10B7RA007E	HCT	ハ(c)	-	-
	DFS SLAVE DEVICE	ipTIME	A1000U	A1000U 09BC02862	HCT	ハ(c)	-	-
	ATTENUATOR	ACE RF COM	ATT SMA 20W 20dB 8G	A-0820.SM20.2	HCT	ハ(c)	Apr. 2022	Apr. 15, 2021
	TERMINATION	ACE RF COM	TERM SMA F 20W 8G	A-0008.SM20.2	HCT	ハ(c)	Apr. 2022	Apr. 15, 2021
	ATTENUATOR	ACE RF COM	ATT 2.92 2W 20dB 40G	A-4020.2902.1	HCT	ハ(c)	Apr 2022	Apr. 15, 2021
	ATTENUATOR	ACE RF COM	ATT 2.92 2W 20dB 40G	A-4020.2902.1	HCT	ハ(c)	Apr 2022	Apr. 15, 2021
	ATTENUATOR	ACE RF COM	ATT 2.92 2W 20dB 40G	A-4020.2902.1	HCT	ハ(c)	Apr. 2022	Apr. 15, 2021
	TERMINATION	ACE RF COM	TERM 2.92 F 2W 40G	A-0040.2920.2	HCT	ハ(c)	Apr. 2022	Apr. 15, 2021
	TERMINATION	ACE RF COM	TERM 2.92 F 2W 40G	A-0040.2920.2	HCT	ハ(c)	Apr. 2022	Apr. 15, 2021
	TERMINATION	ACE RF COM	TERM 2.92 F 2W 40G	A-0040.2920.2	HCT	ハ(c)	Apr. 2022	Apr. 15, 2021
X	E-SERIES AVG POWER SENSOR	AGILENT	E9304A	MY41499030	HCT	ハ(c)	Dec. 2022	Dec. 15, 2021
X	E-SERIES AVG POWER SENSOR	AGILENT	E9304A	MY41499039	HCT	ハ(c)	Dec. 2022	Dec. 15, 2021
X	Power meter	AGILENT	E4419B	GB38410188	HCT	ハ(c)	Dec. 2022	Dec. 15, 2021
X	DC POWER SUPPLY	AGILENT	E3634A	NUBICOM	HCT	ハ(c)	Feb. 2023	Feb. 3, 2022

Note1: 測定機器の較正は、1年間有効です。

The calibration of measurement equipment is valid for one year period.

Note2: "X" は使用した測定機器です。

"X" used equipment.

Note3: 較正方法 ...

Cal.Method ...

1): 独立行政法人情報通信研究機構(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が行う較正

a): Calibration conducted by the National Institute of Information and Communications Technology(NICT)(hereinafter referred to as "NICT") or a designated calibration agency under Article 102-18 paragraph (1)

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

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

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)

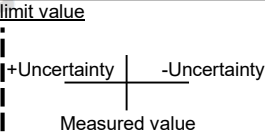
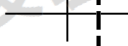
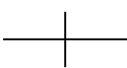
ニ): 別表第三の下欄に掲げる測定器その他の設備であつて、イからハまでのいずれかに掲げる較正等を受けたものをを用いて行う較正等

d): Calibration conducted by using measuring instruments and other equipment listed in the right column of Table No. 3 attached hereto, which shall have been given any of calibration, etc. listed above from a) to c)

6. 測定の不確かさ

About uncertainty of measured value

Parameter	Uncertainty
Total RF power conducted	± 0.292 dB
Spurious emissions conducted	± 0.40 dB
Temperature	$\pm 0.8^{\circ}\text{C}$
Humidity	$\pm 4.4\%$

判定	Measured value and standard limit value	
PASS	Case1  Standard limit value +Uncertainty -Uncertainty Measured value Even if it takes uncertainty into consideration, a standard limit value is fulfilled.	
	Case2  Although measured value is in a standard limit value, a limit value won't be fulfilled if uncertainty is taken into consideration.	
FAIL	Case3  Although measured value exceeds a standard limit value, a limit value will be fulfilled if uncertainty is taken into consideration.	
	Case4  Even if it takes uncertainty into consideration, a standard limit value isn't fulfilled.	

7. 測定写真

Photographs

Conducted Measurement Photo



8. 測定チャート

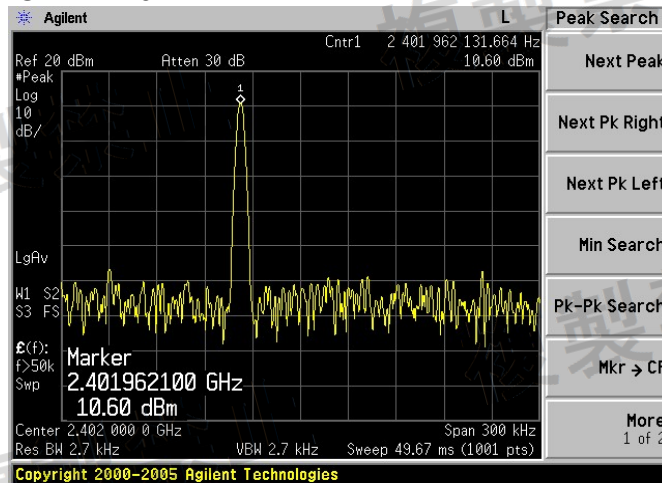
Test chart

8.1 周波数の偏差

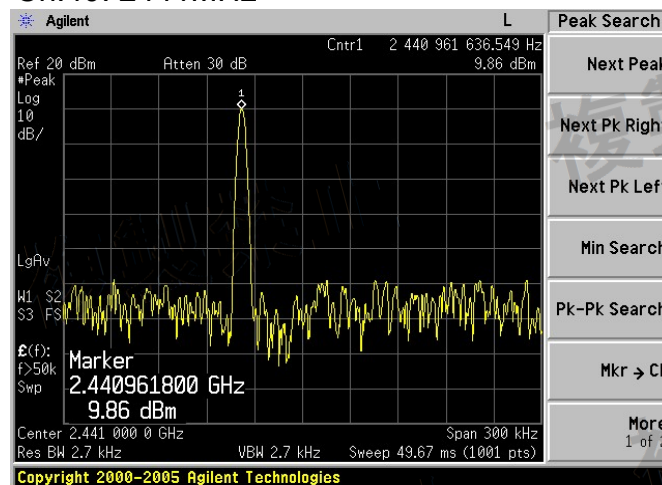
Frequency tolerance

BDR

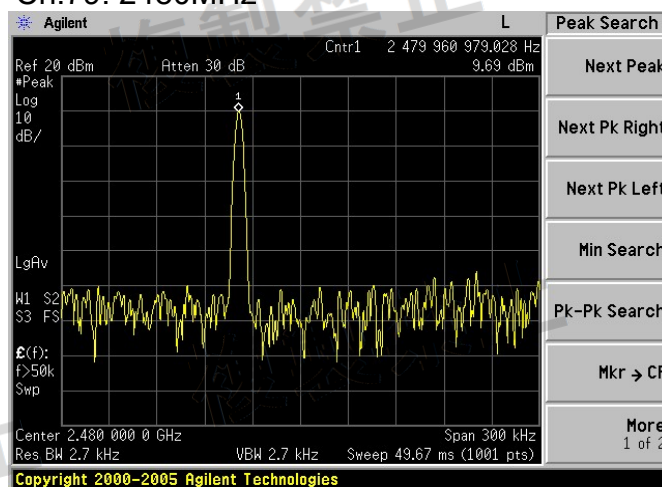
Ch.1: 2402MHz



Ch.40: 2441MHz



Ch.79: 2480MHz



8. 測定チャート

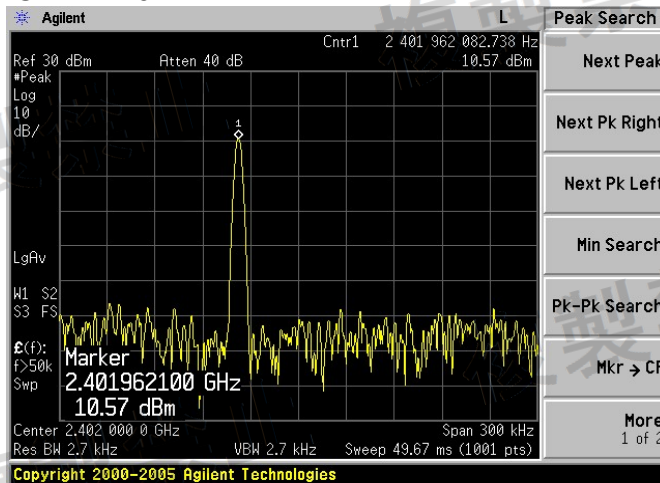
Test chart

8.1 周波数の偏差

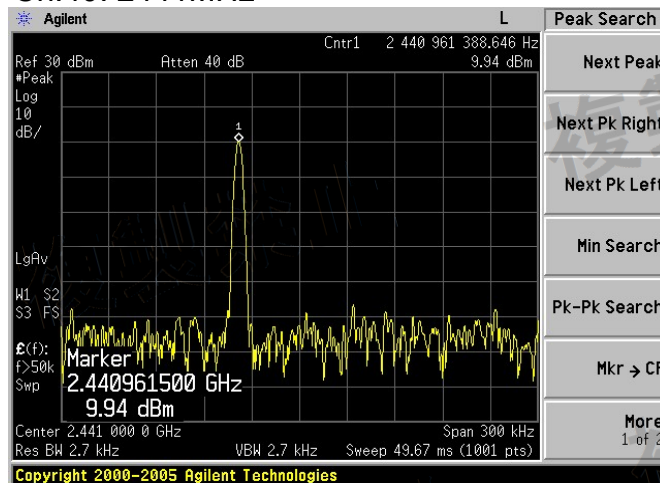
Frequency tolerance

EDR

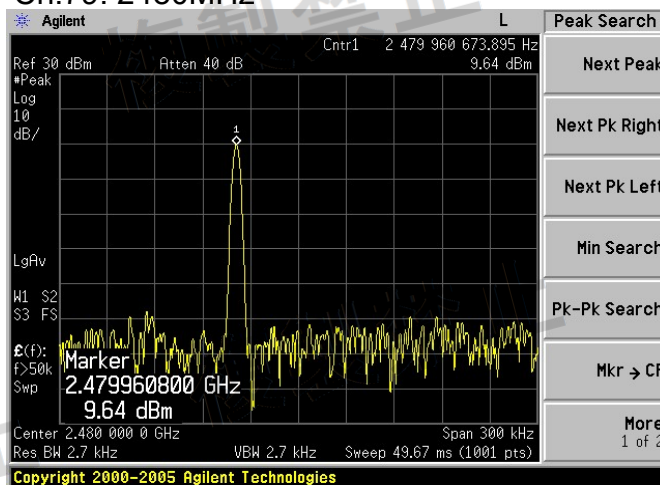
Ch.1: 2402MHz



Ch.40: 2441MHz



Ch.79: 2480MHz

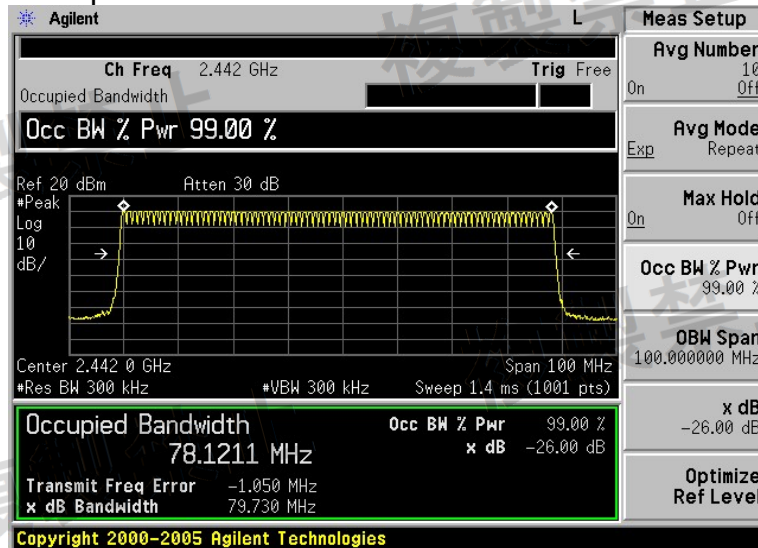


8.2 占有周波数帯幅及び拡散帯域幅

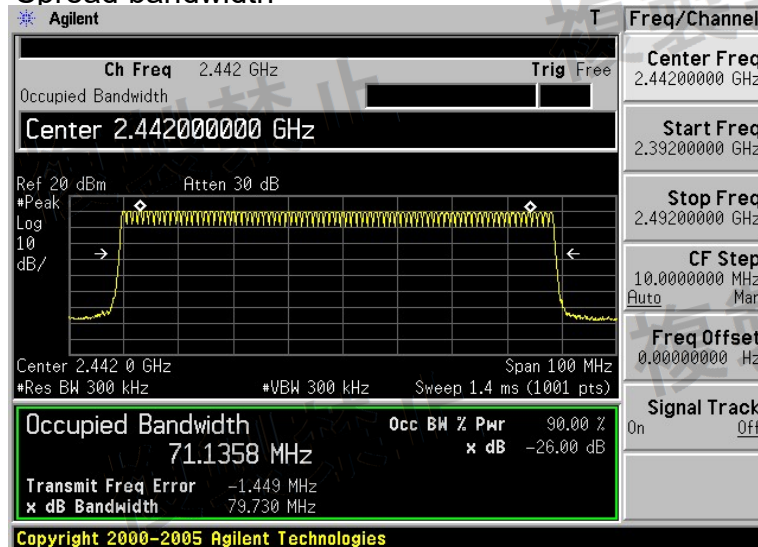
Occupied bandwidth / Spread bandwidth

BDR

Occupied bandwidth



Spread bandwidth



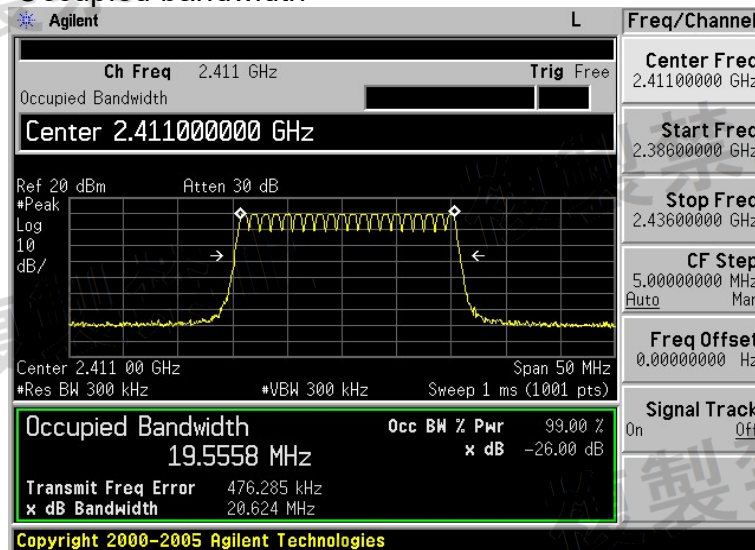
8.2 占有周波数帯幅及び拡散帯域幅

Occupied bandwidth / Spread bandwidth

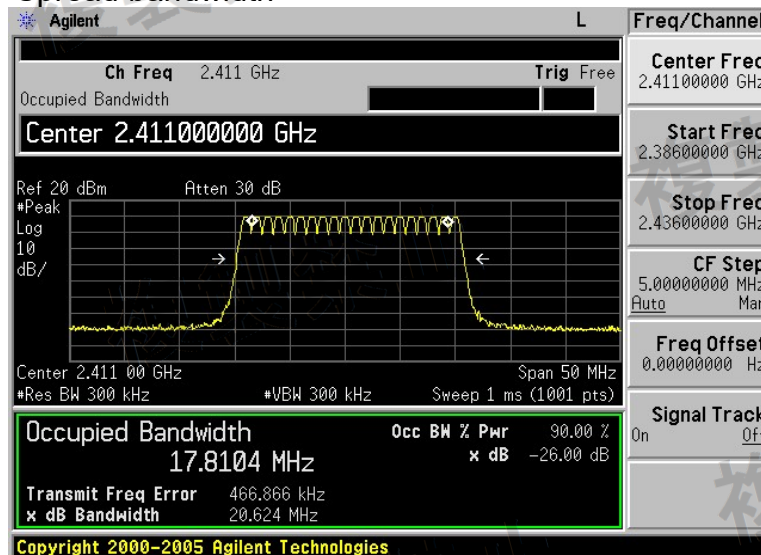
BDR AFH

Ch:Low

Occupied bandwidth

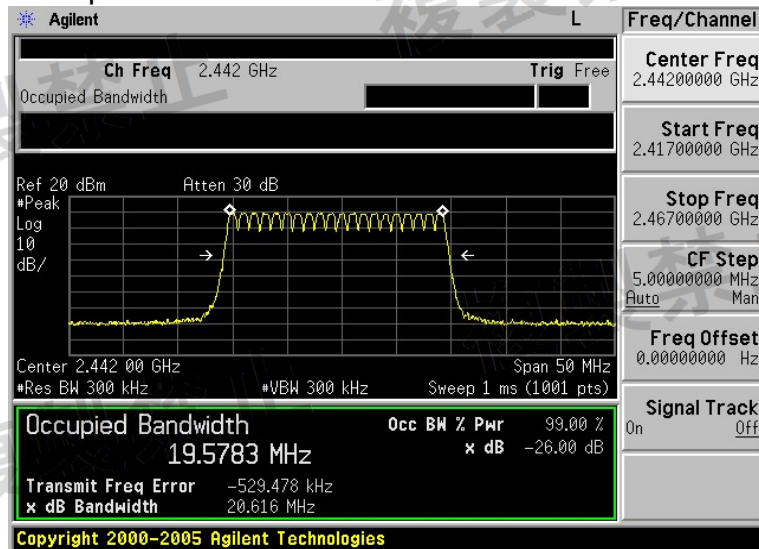


Spread bandwidth

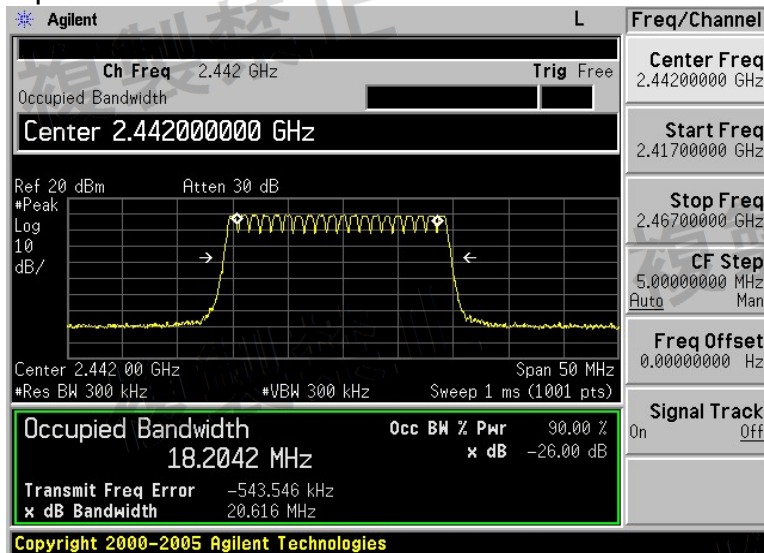


Ch:Middle

Occupied bandwidth

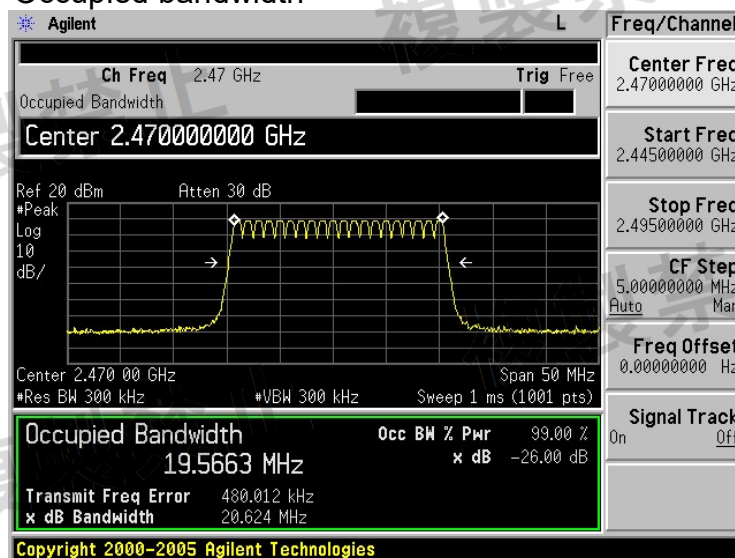


Spread bandwidth

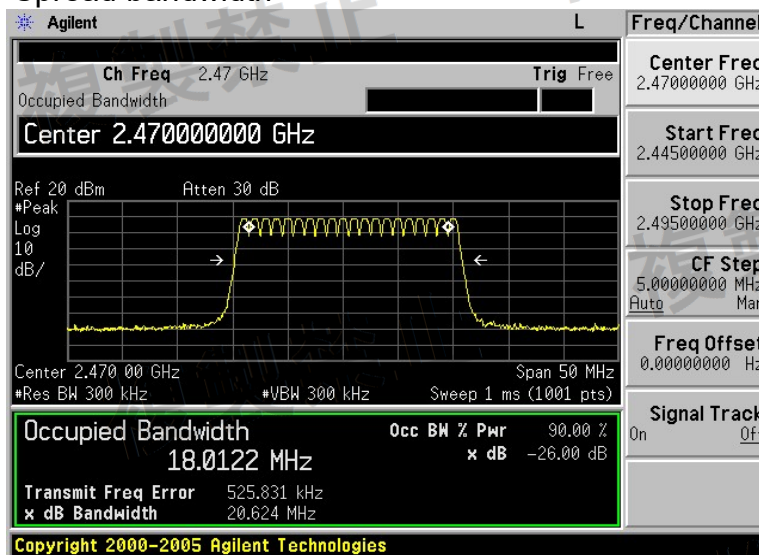


Ch:High

Occupied bandwidth



Spread bandwidth

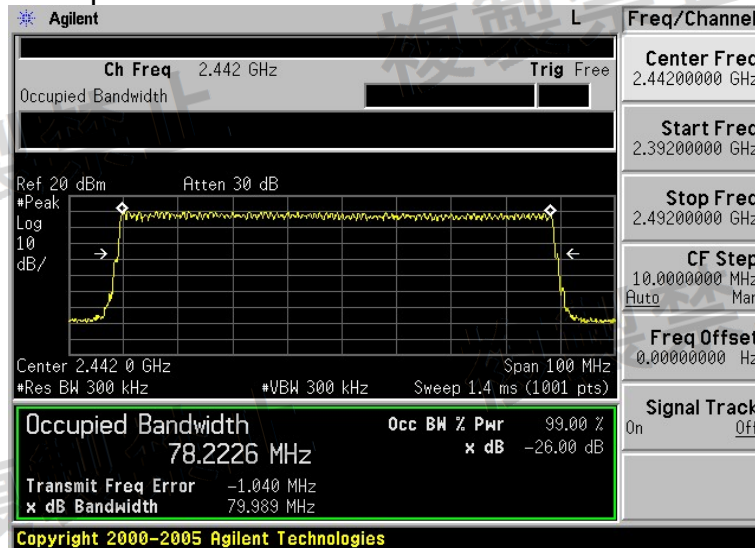


8.2 占有周波数帯幅及び拡散帯域幅

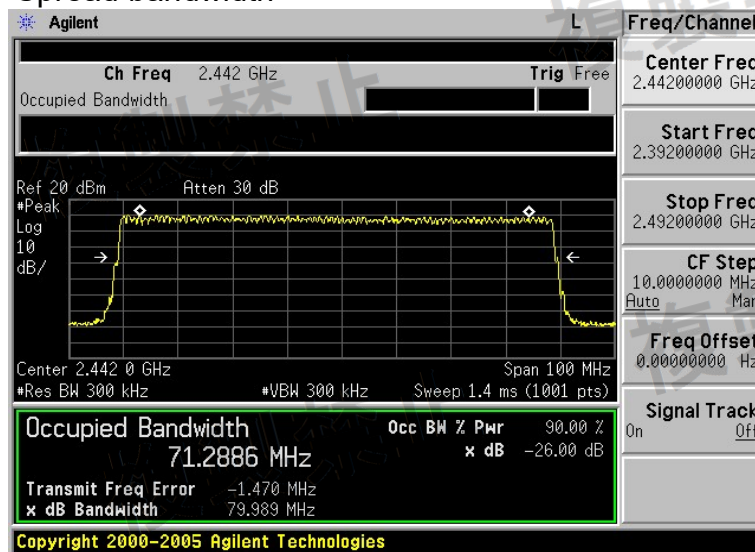
Occupied bandwidth / Spread bandwidth

EDR

Occupied bandwidth



Spread bandwidth



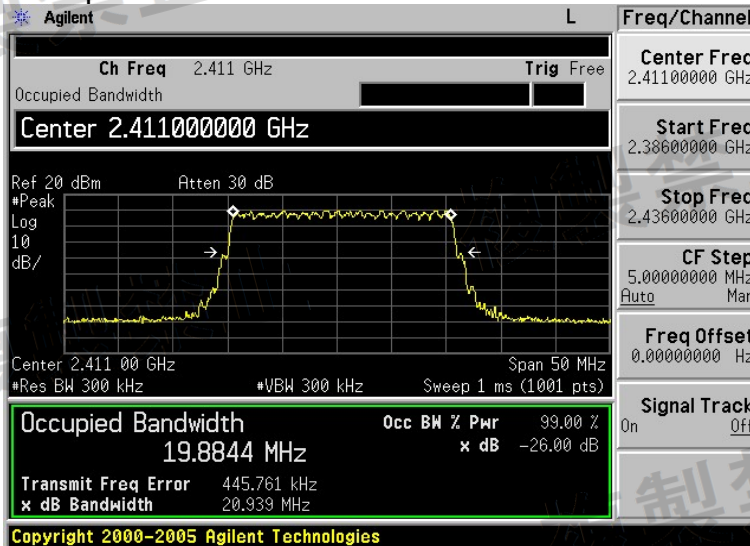
8.2 占有周波数帯幅及び拡散帯域幅

Occupied bandwidth / Spread bandwidth

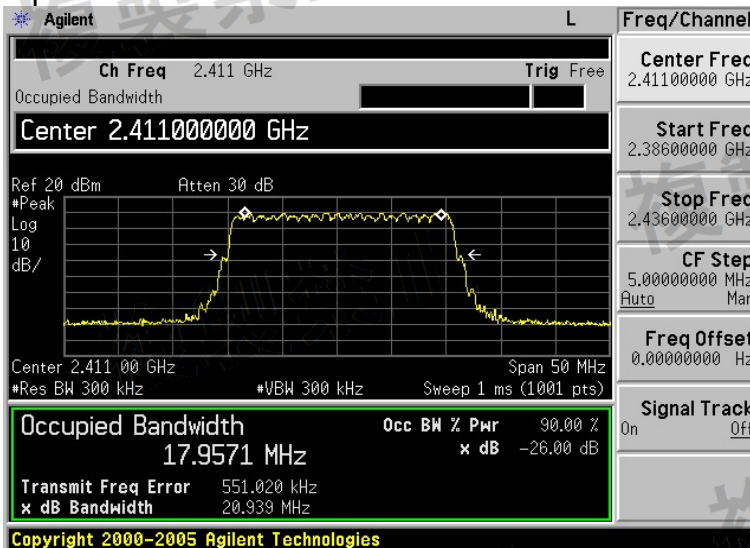
EDR AFH

Ch:Low

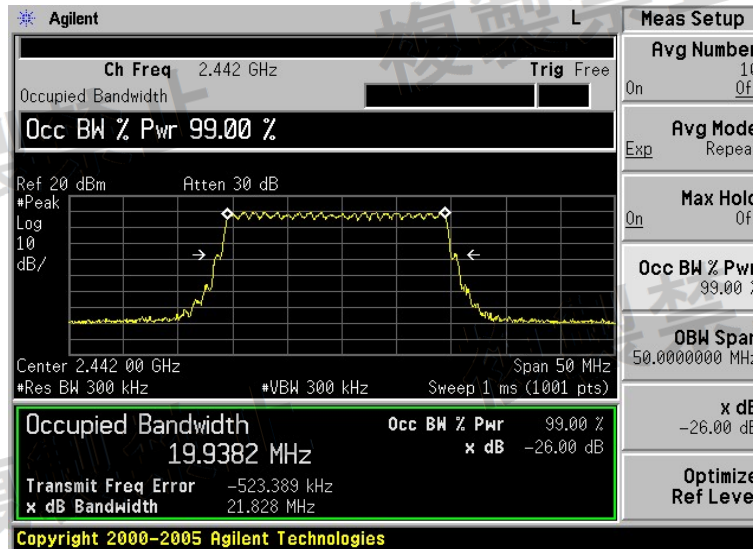
Occupied bandwidth



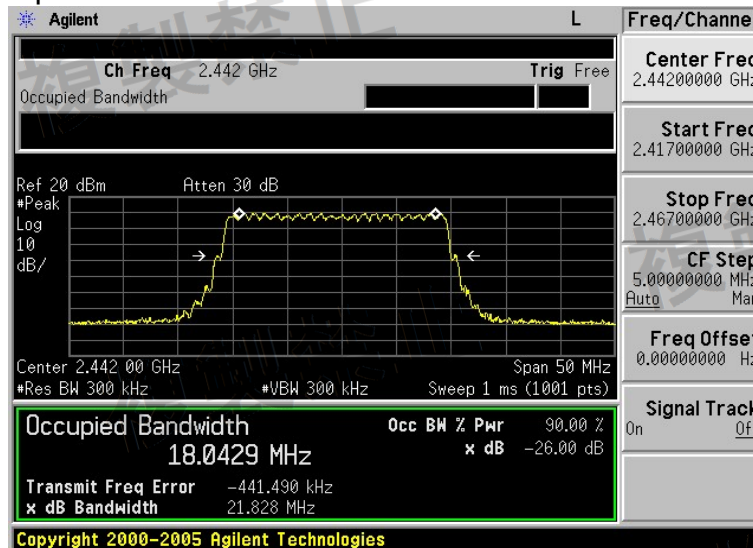
Spread bandwidth



Ch:Middle

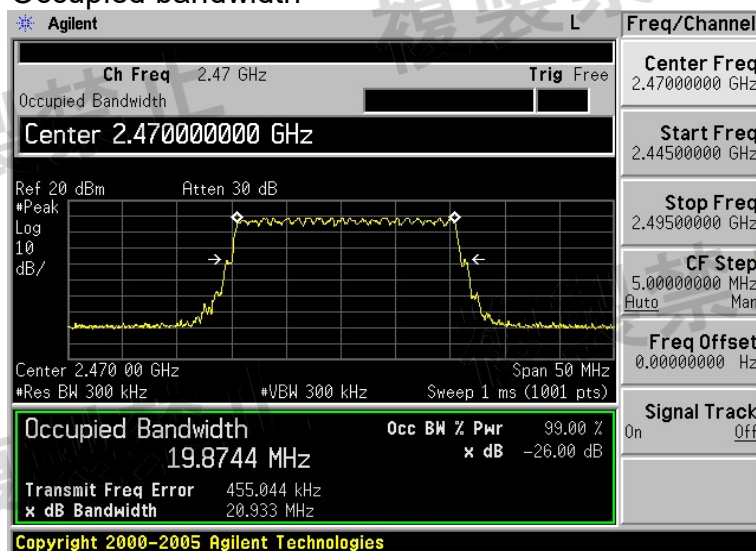


Spread bandwidth

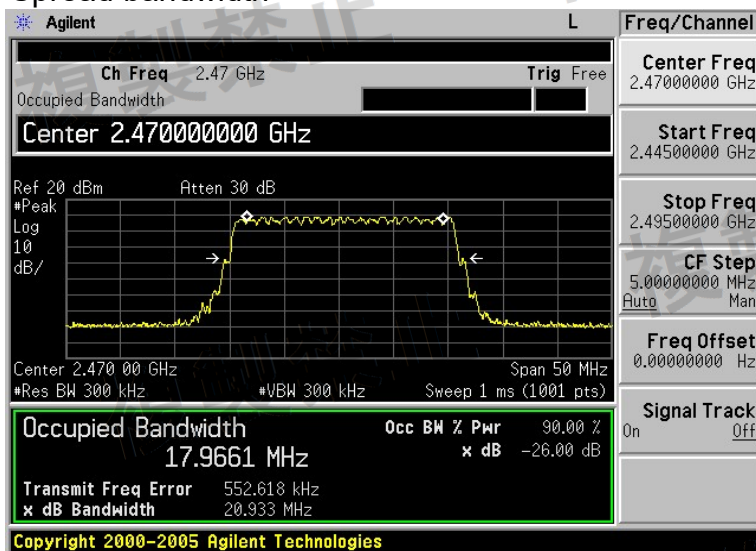


Ch:High

Occupied bandwidth



Spread bandwidth

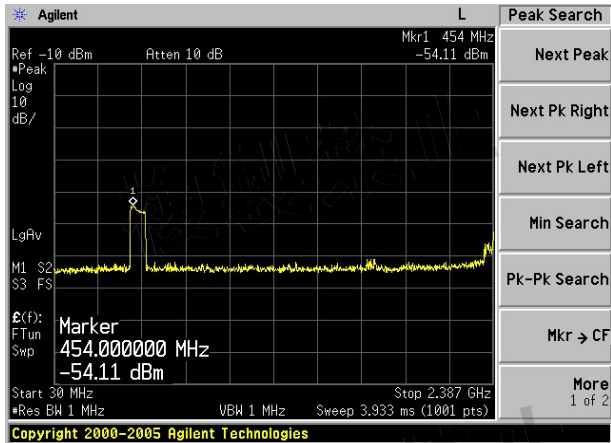


8.3スプリアスの発射又は不要発射の強度

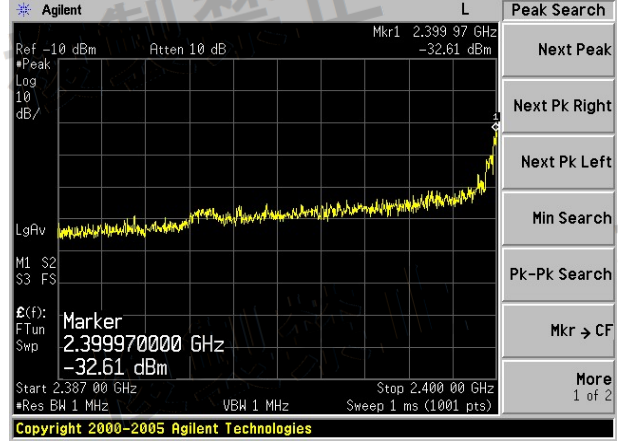
Unwanted(Spurious) emission strength

BDR

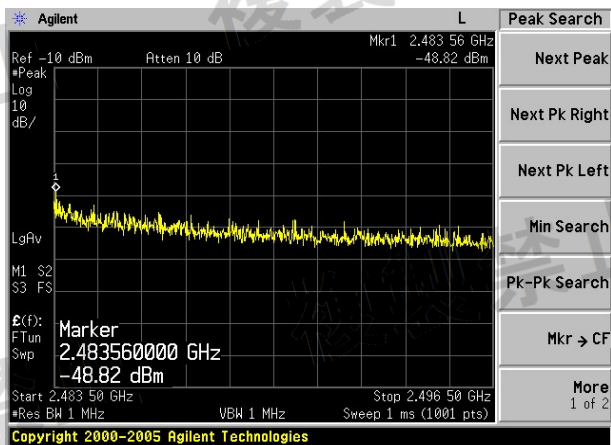
30-2387MHz



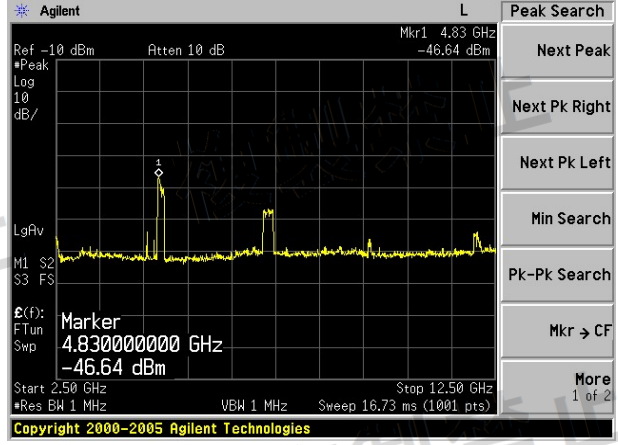
2387-2400MHz



2483.5-2496.5MHz



2496.5-12500MHz

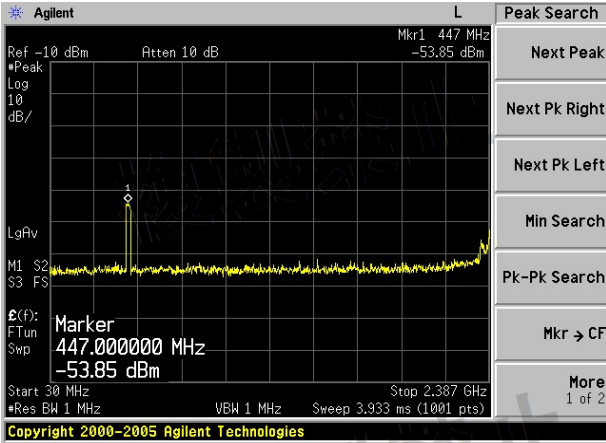


8.3スプリアスの発射又は不要発射の強度
Unwanted(Spurious) emission strength

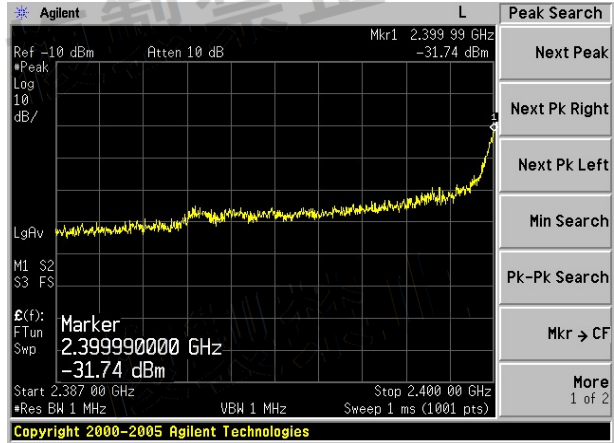
BDR AFH

Ch:Low

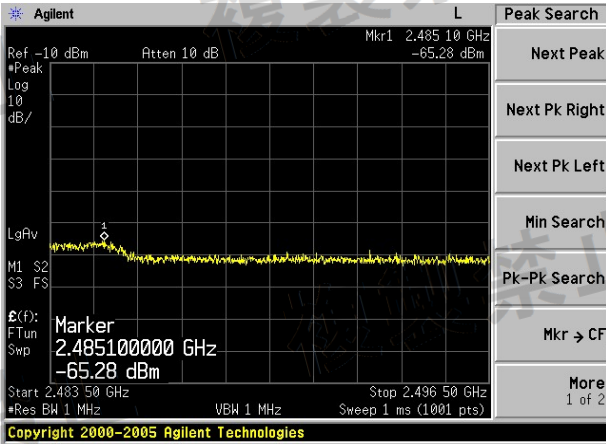
30-2387MHz



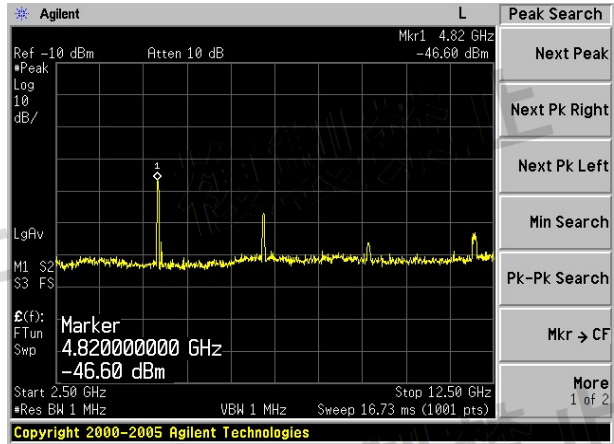
2387-2400MHz



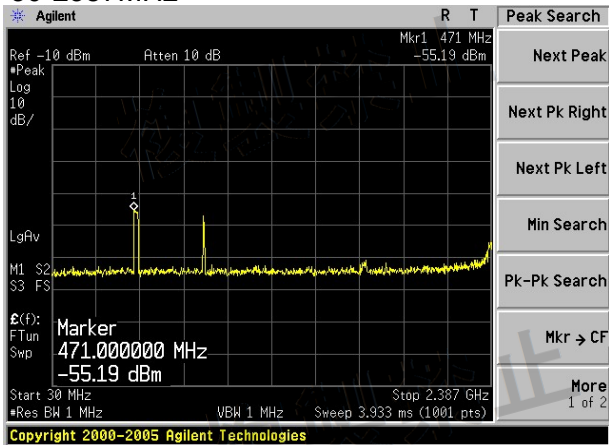
2483.5-2496.5MHz



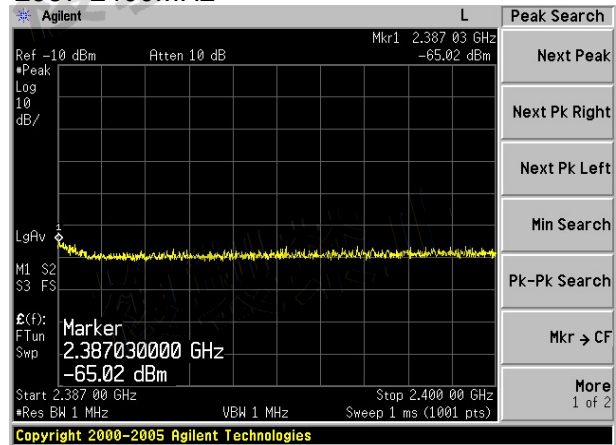
2496.5-12500MHz



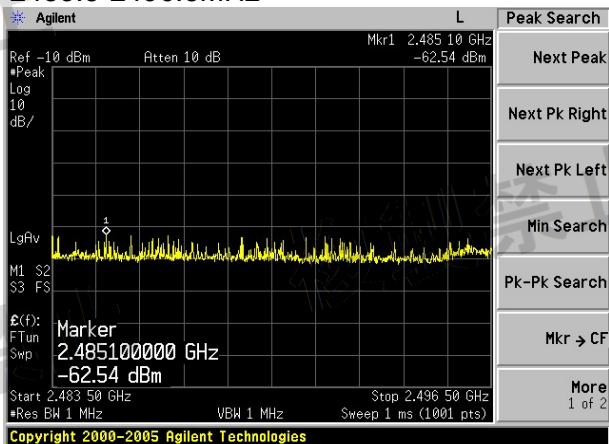
Ch:Middle
30-2387MHz



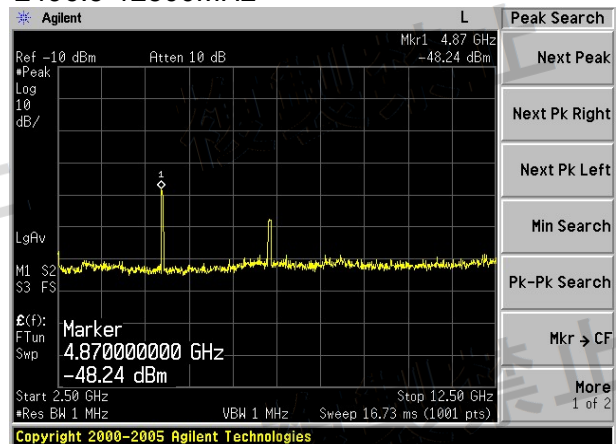
2387-2400MHz



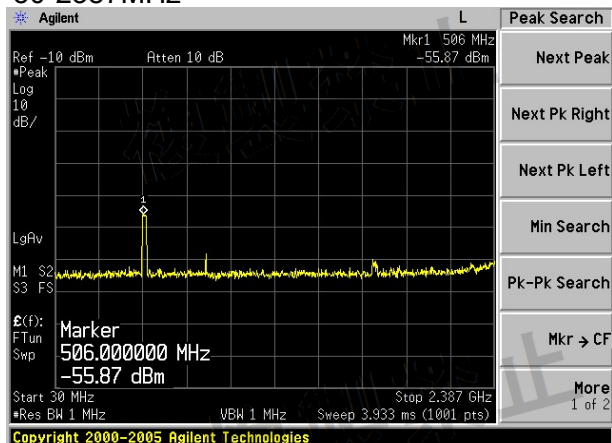
2483.5-2496.5MHz



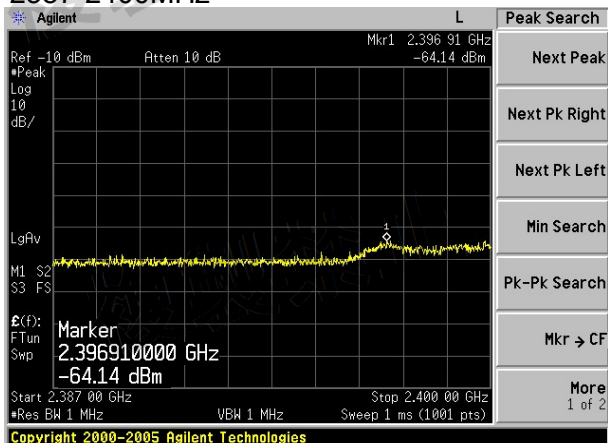
2496.5-12500MHz



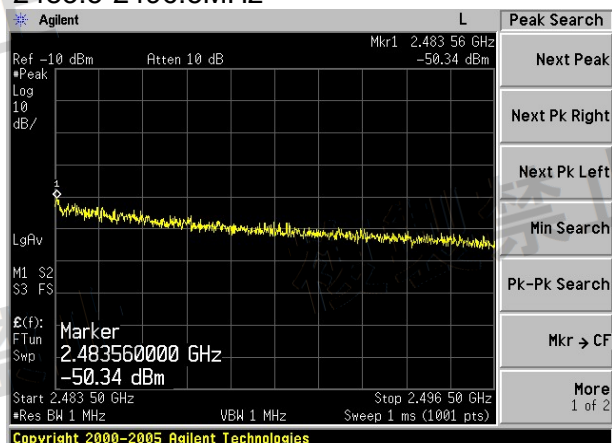
Ch:High
30-2387MHz



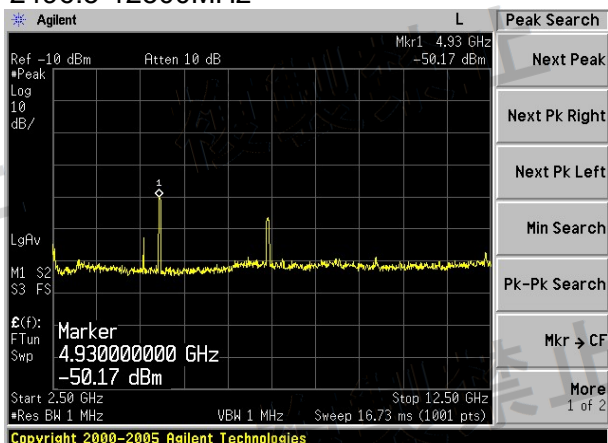
2387-2400MHz



2483.5-2496.5MHz



2496.5-12500MHz

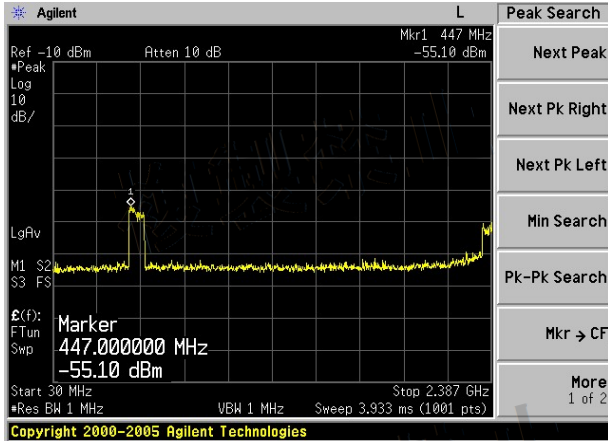


8.3スプリアスの発射又は不要発射の強度

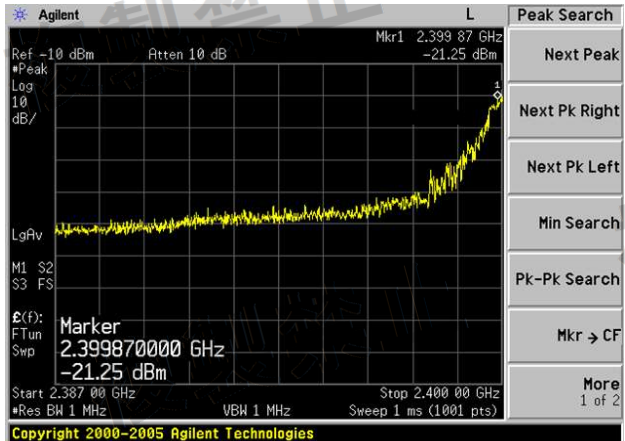
Unwanted(Spurious) emission strength

EDR

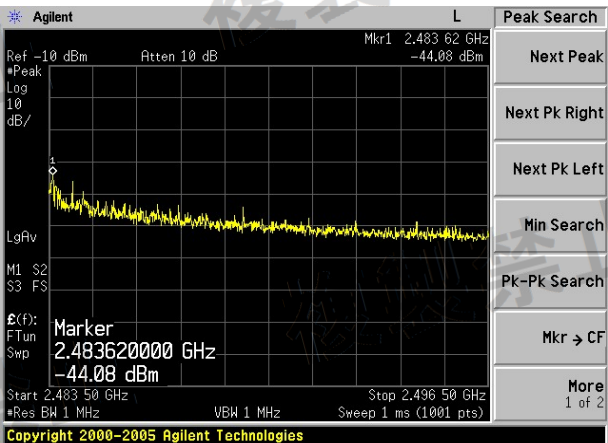
30-2387MHz



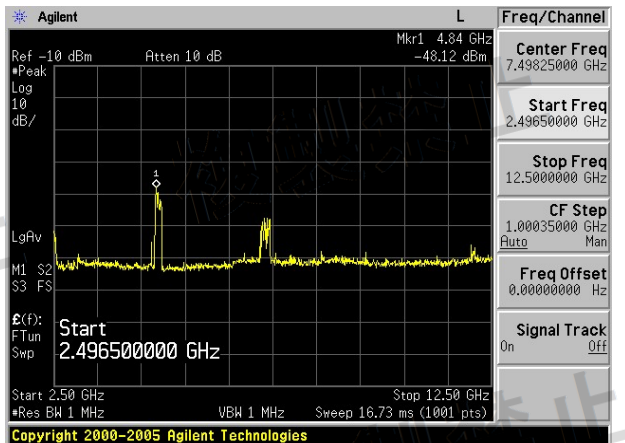
2387-2400MHz



2483.5-2496.5MHz



2496.5-12500MHz

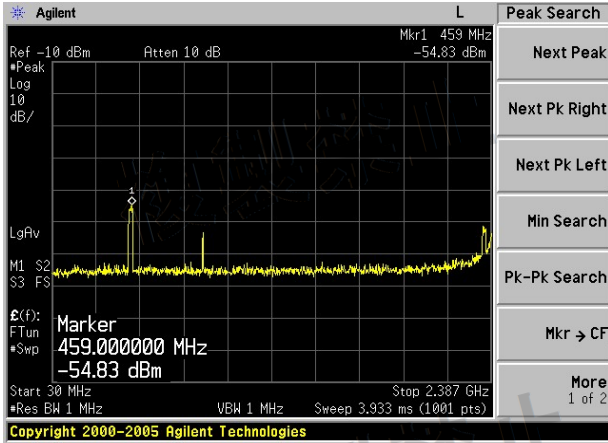


8.3スプリアスの発射又は不要発射の強度
Unwanted(Spurious) emission strength

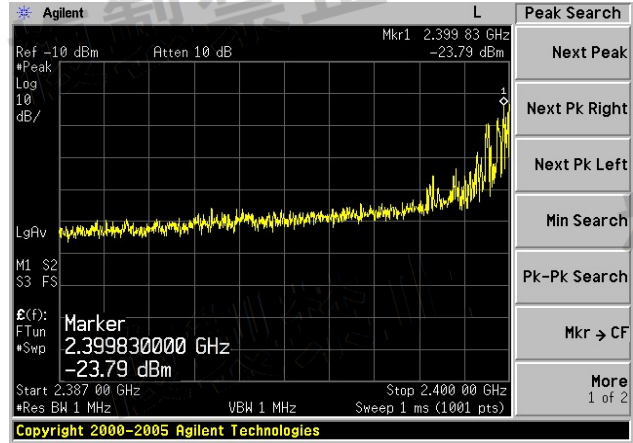
EDR AFH

Ch:Low

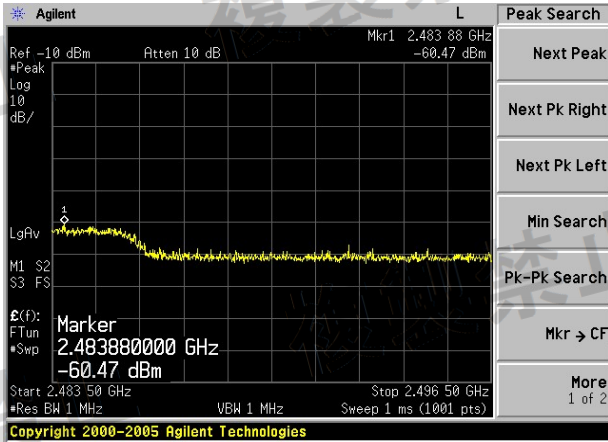
30-2387MHz



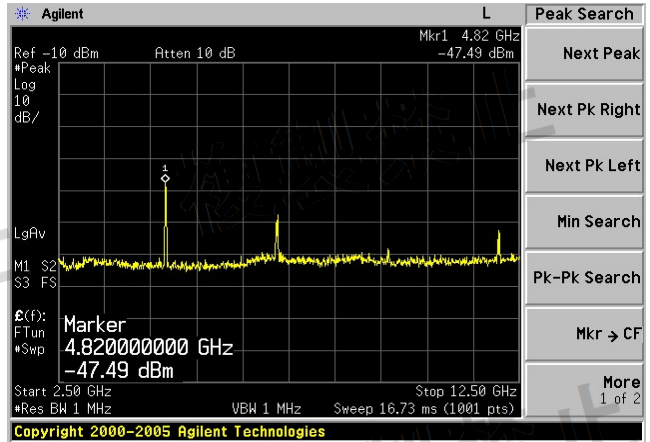
2387-2400MHz



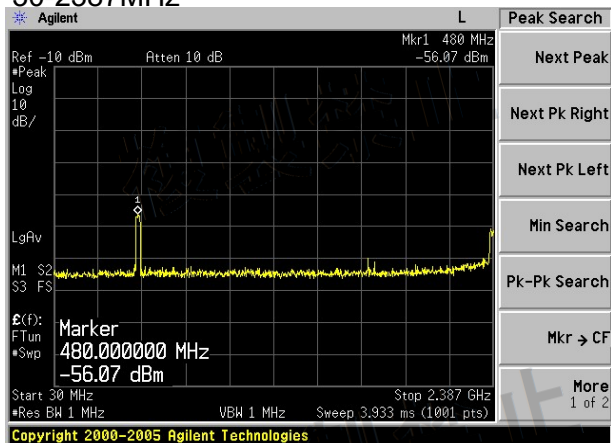
2483.5-2496.5MHz



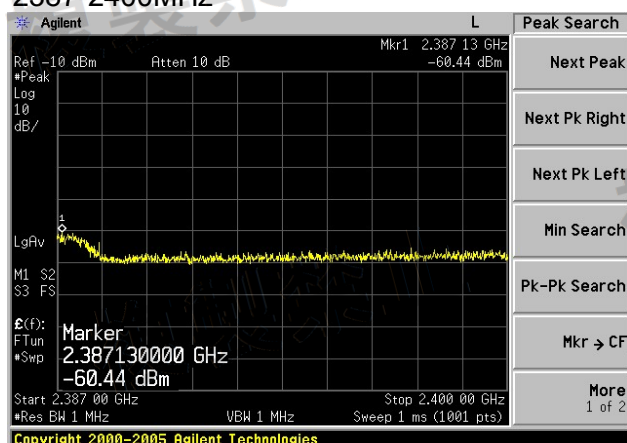
2496.5-12500MHz



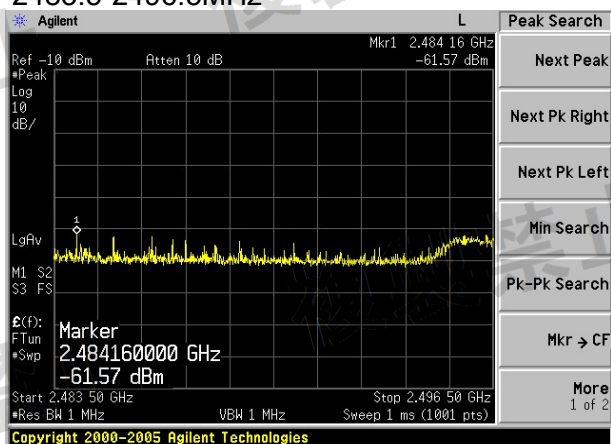
Ch:Middle
30-2387MHz



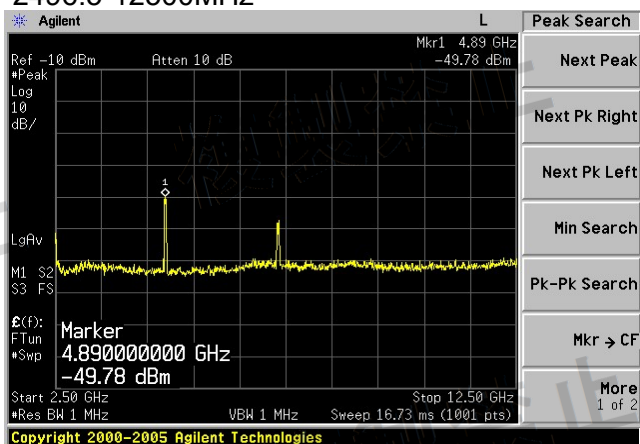
2387-2400MHz



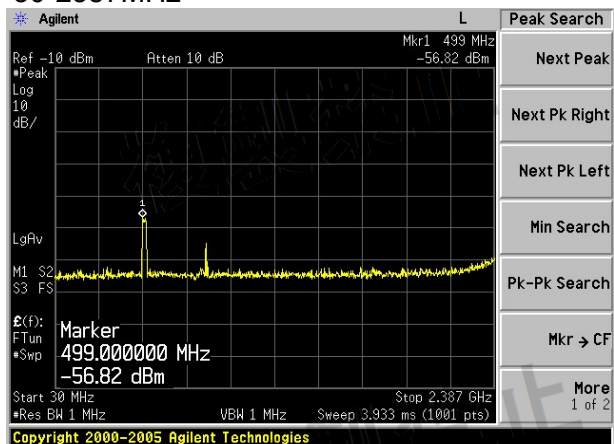
2483.5-2496.5MHz



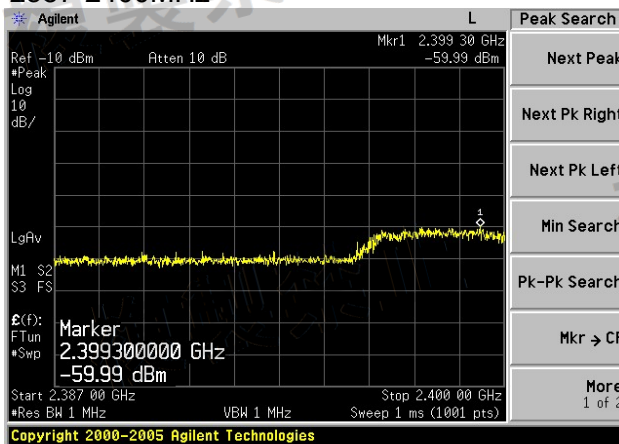
2496.5-12500MHz



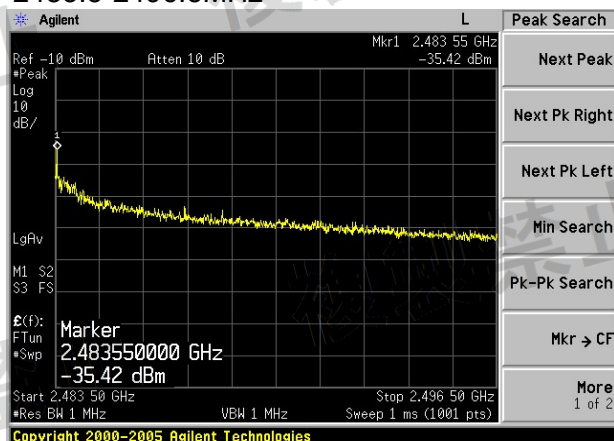
Ch:High
30-2387MHz



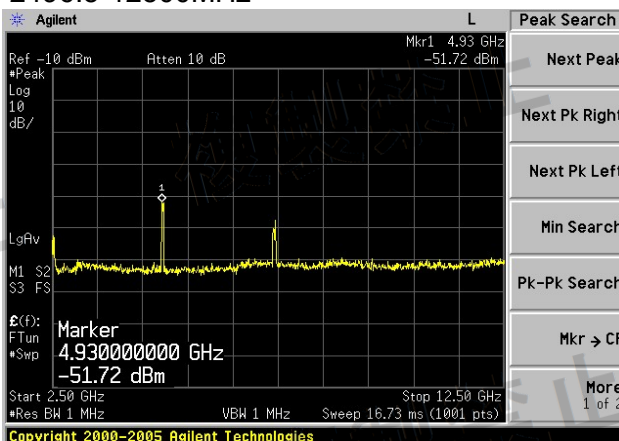
2387-2400MHz



2483.5-2496.5MHz



2496.5-12500MHz

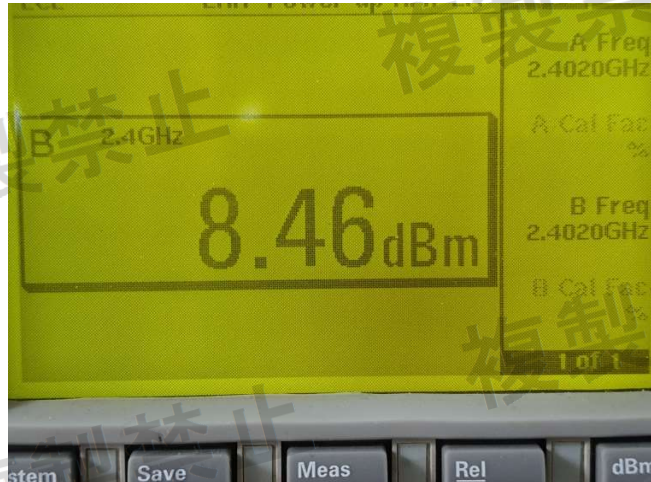


8.4 空中線電力の偏差

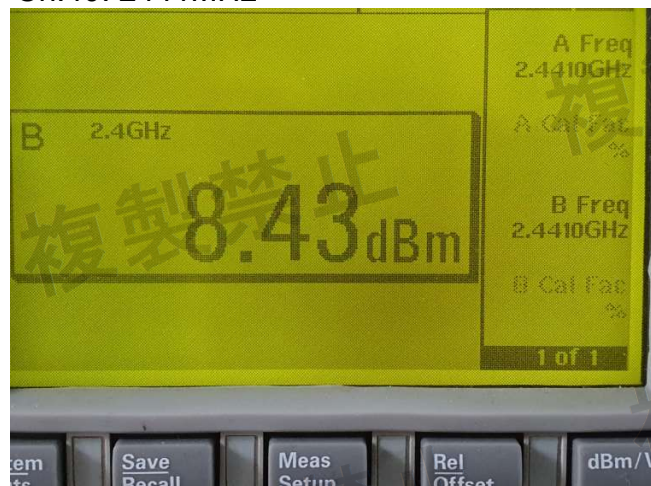
RF output power tolerance

BDR

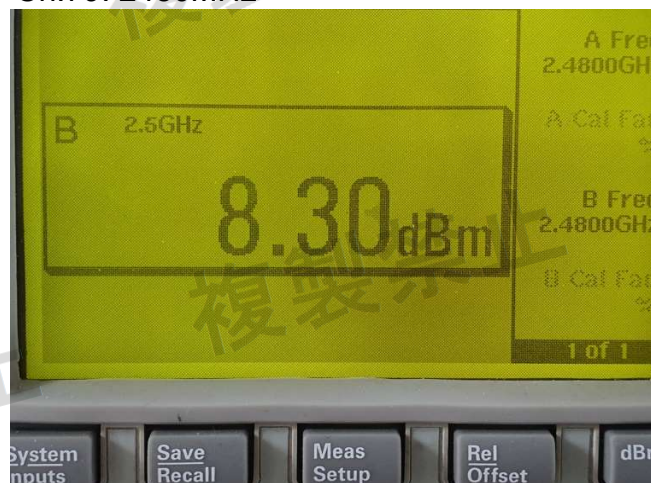
Ch.1: 2402MHz



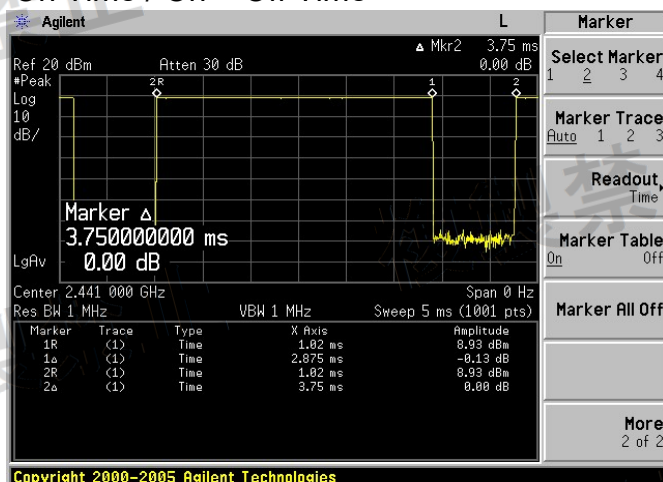
Ch.40: 2441MHz



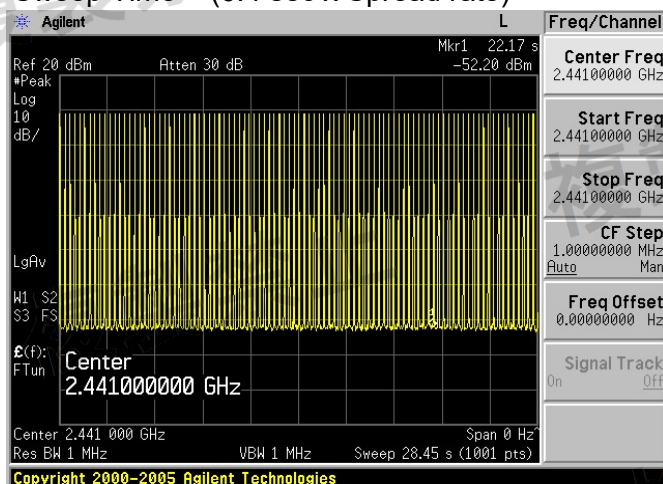
Ch.79: 2480MHz



On Time / On + Off Time



Sweep Time = (0.4 sec x Spread rate)

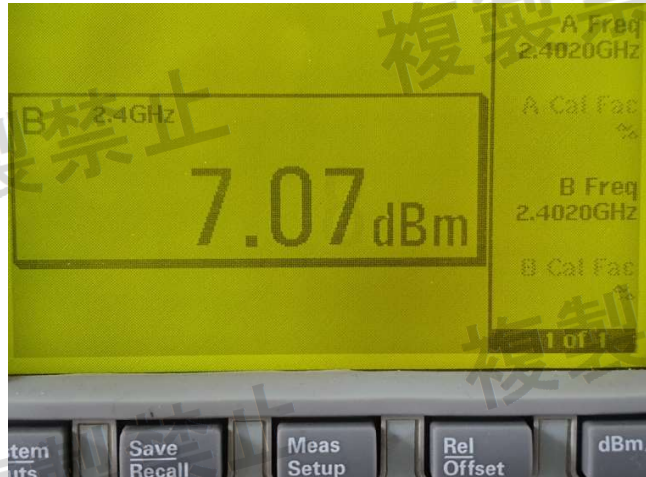


8.4 空中線電力の偏差

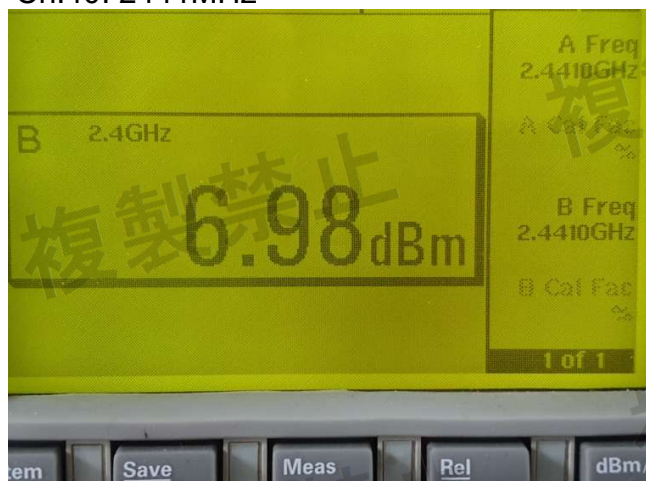
RF output power tolerance

EDR

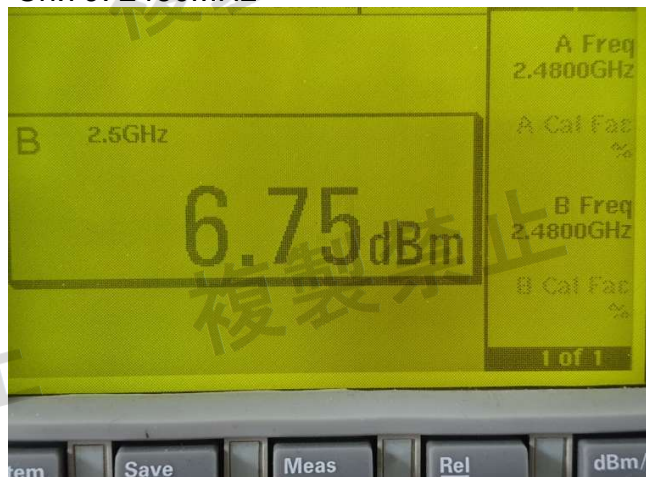
Ch.1: 2402MHz



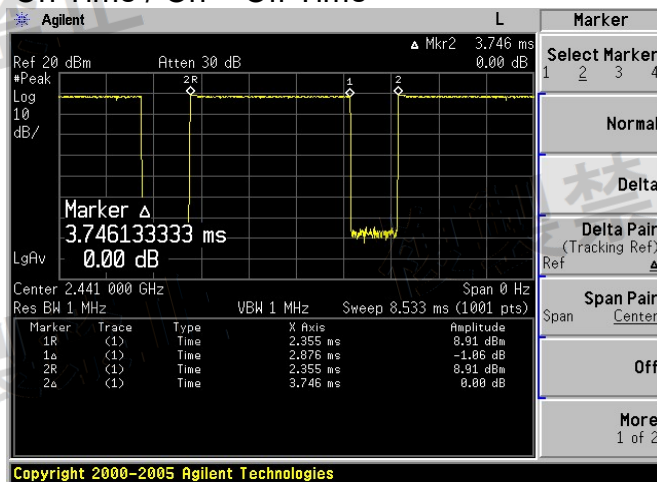
Ch.40: 2441MHz



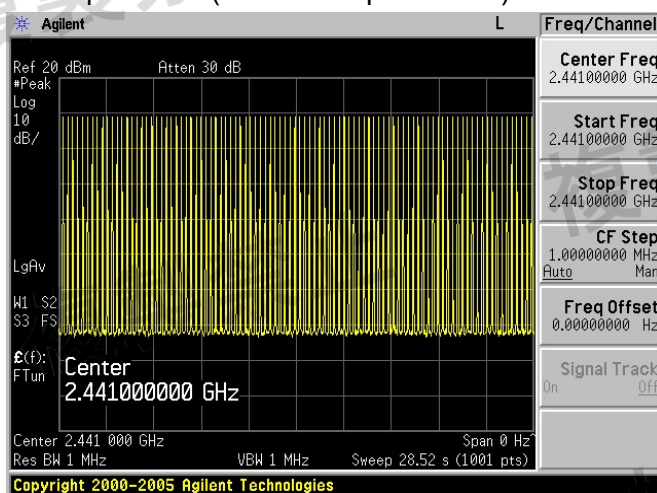
Ch.79: 2480MHz



On Time / On + Off Time



Sweep Time = (0.4 sec x Spread rate)

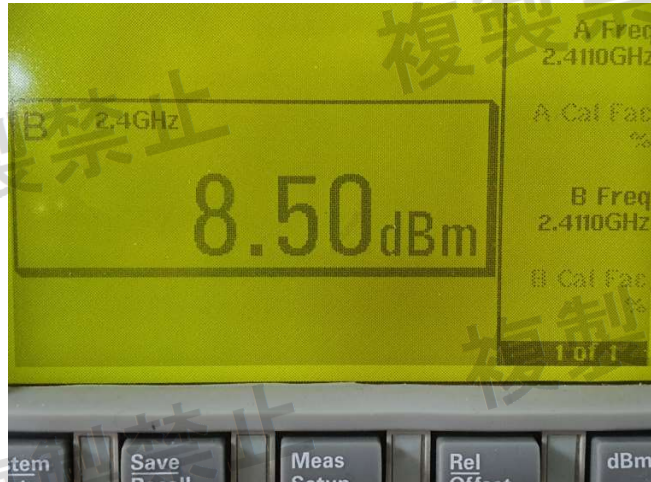


8.4 空中線電力の偏差

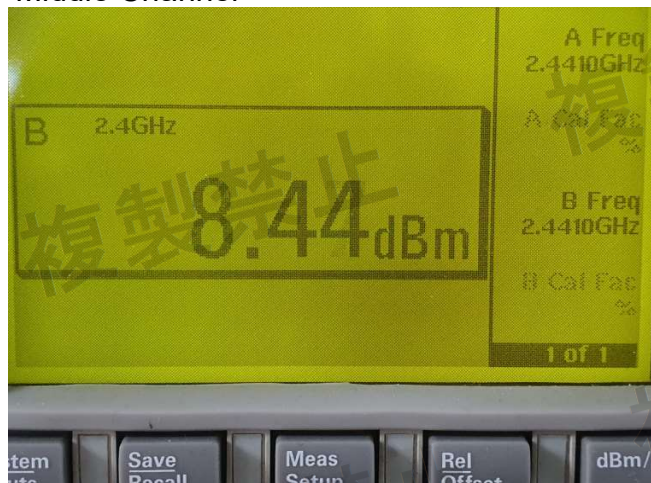
RF output power tolerance

BDR AFH

Low Channel



Middle Channel

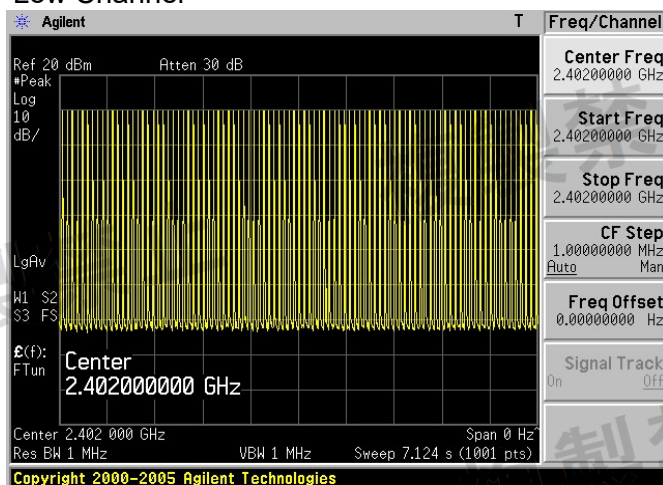


High Channel

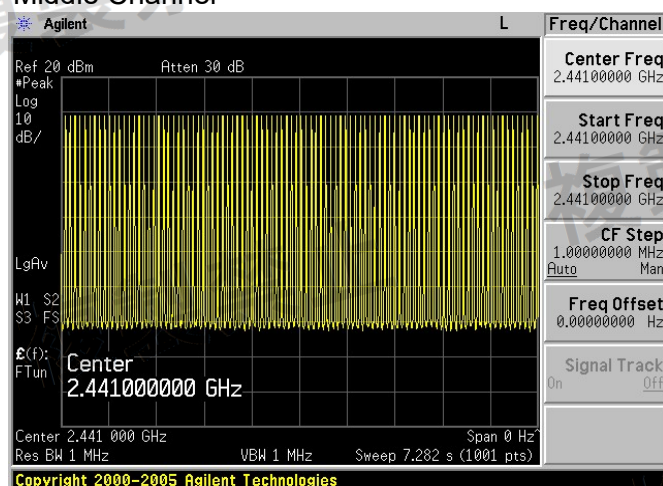


$$\text{Sweep Time} = (0.4 \text{ sec} \times \text{Spread rate})$$

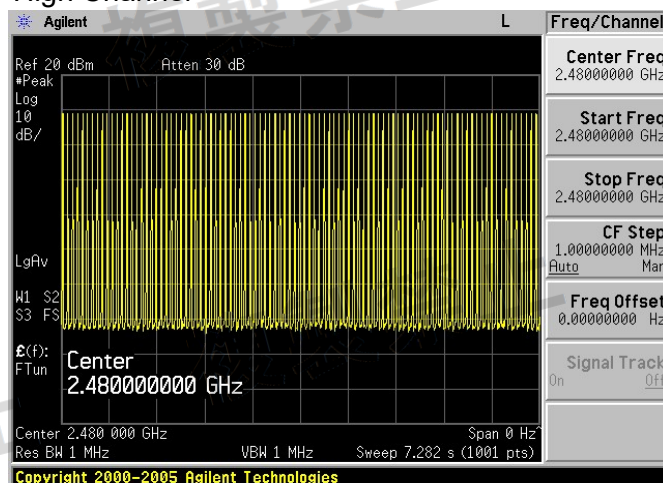
Low Channel



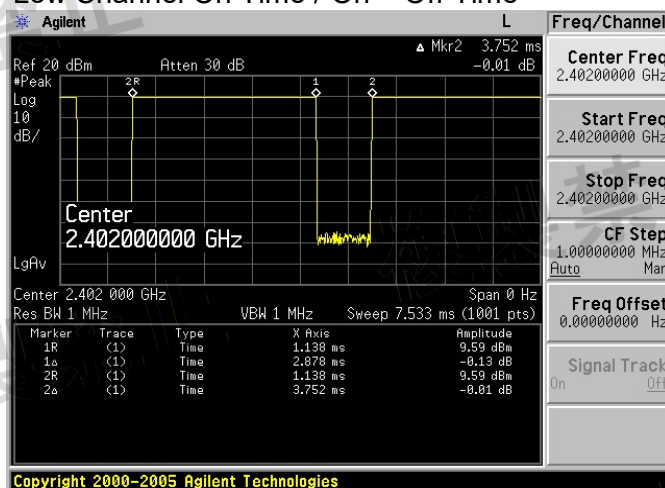
Middle Channel



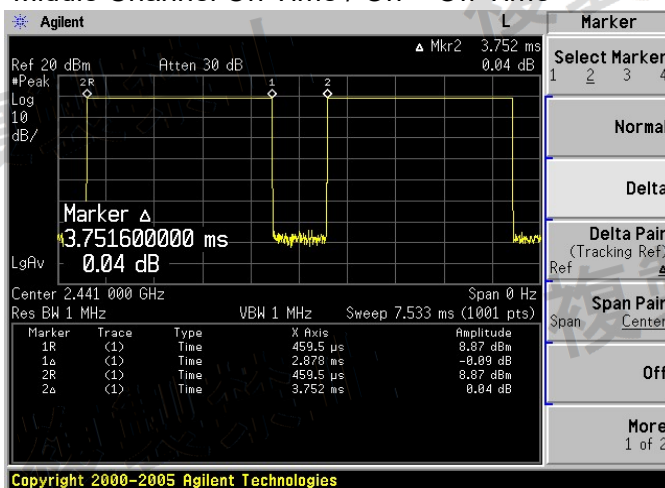
High Channel



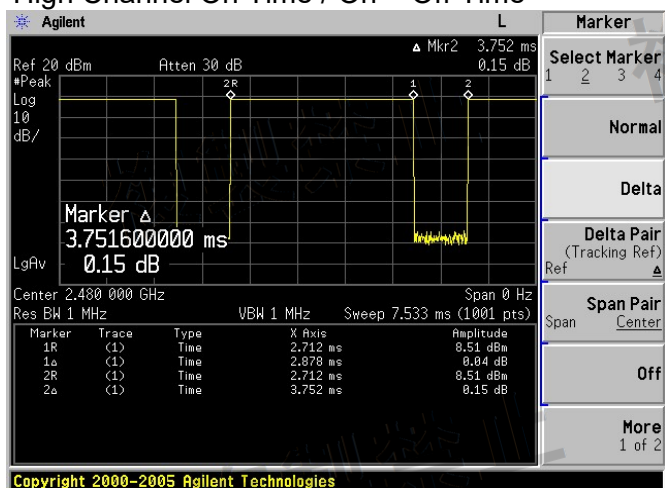
Low Channel On Time / On + Off Time



Middle Channel On Time / On + Off Time



High Channel On Time / On + Off Time

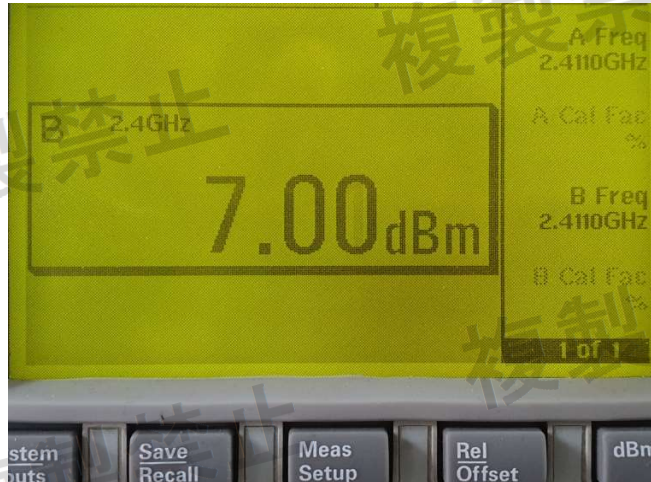


8.4 空中線電力の偏差

RF output power tolerance

EDR AFH

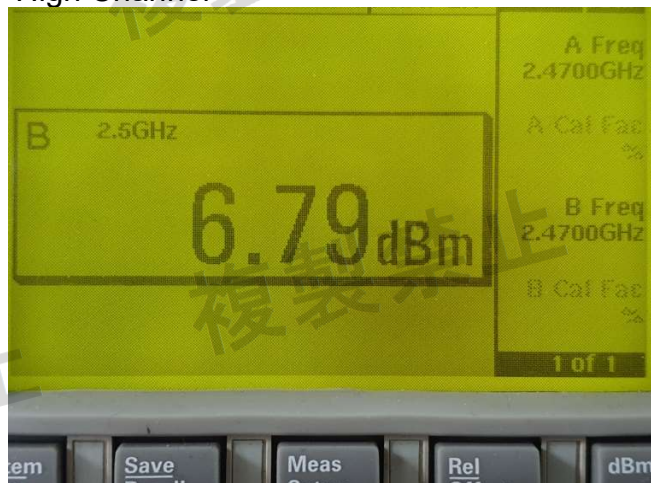
Low Channel



Middle Channel

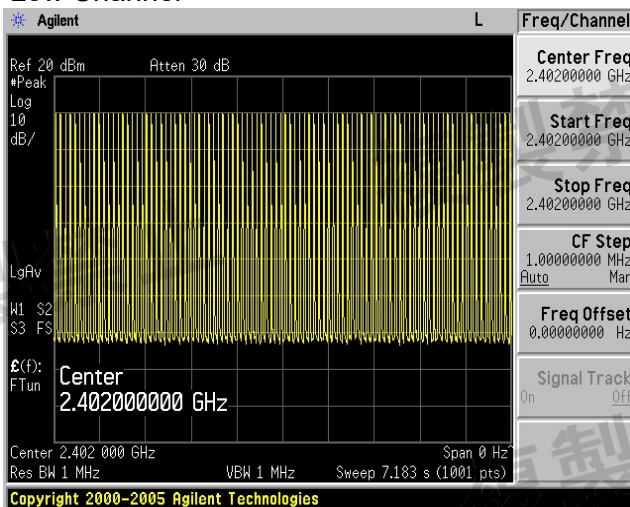


High Channel

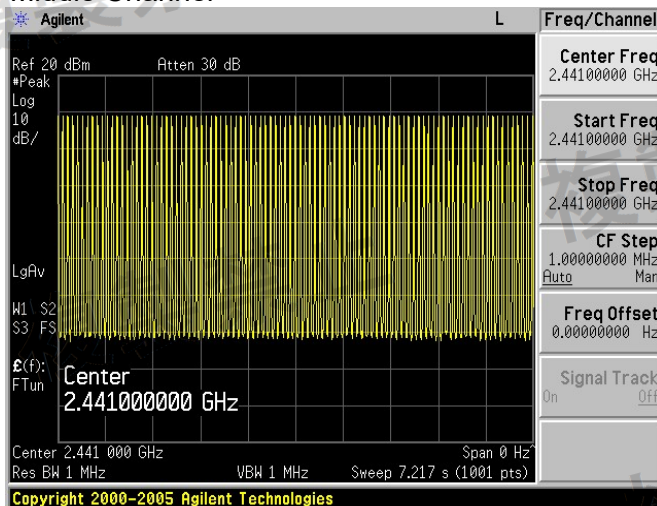


$$\text{Sweep Time} = (0.4 \text{ sec} \times \text{Spread rate})$$

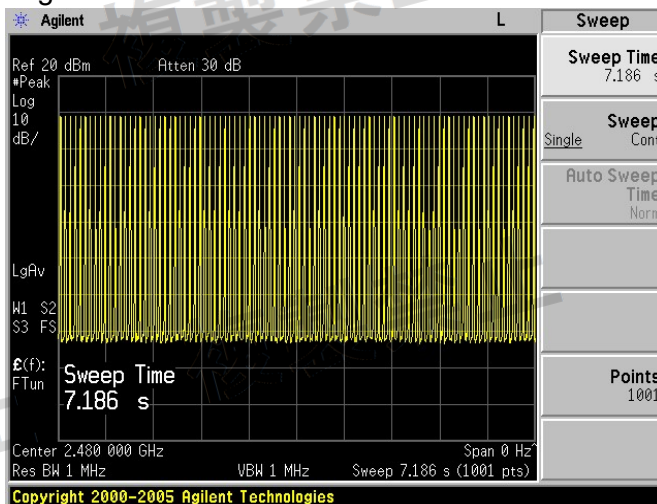
Low Channel



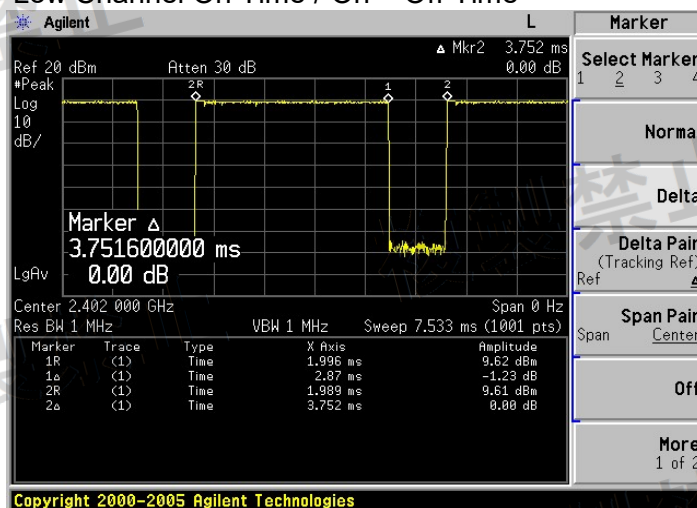
Middle Channel



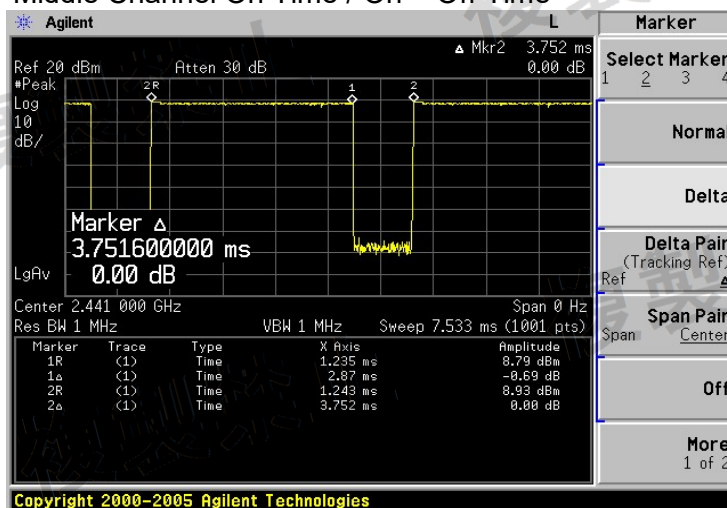
High Channel



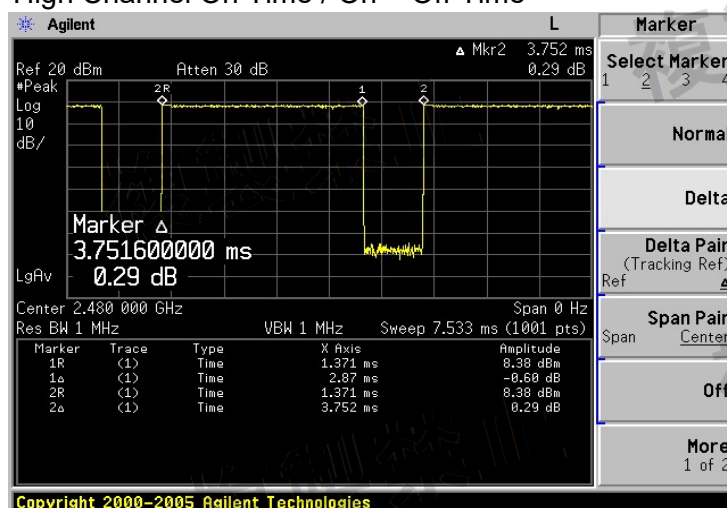
Low Channel On Time / On + Off Time



Middle Channel On Time / On + Off Time



High Channel On Time / On + Off Time

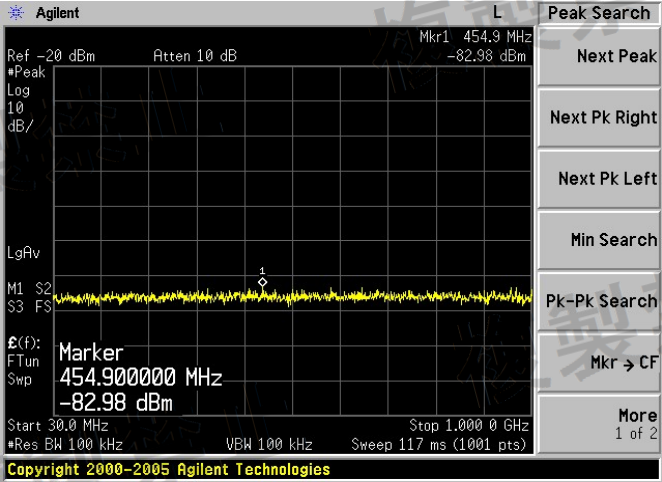


8.5 副次的に発する電波等の限度

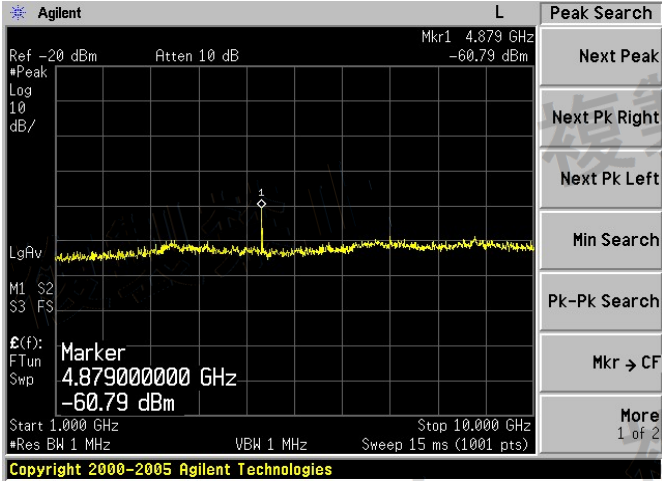
Secondary emitted radio wave strength

BDR

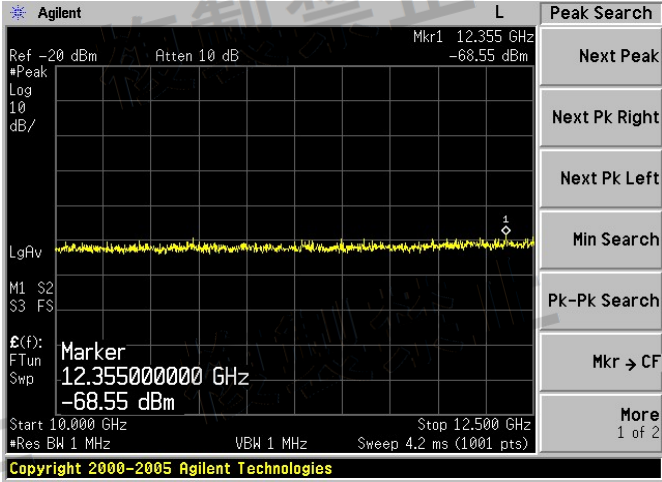
30MHz-1GHz



1GHz-10GHz



10GHz-12.5GHz

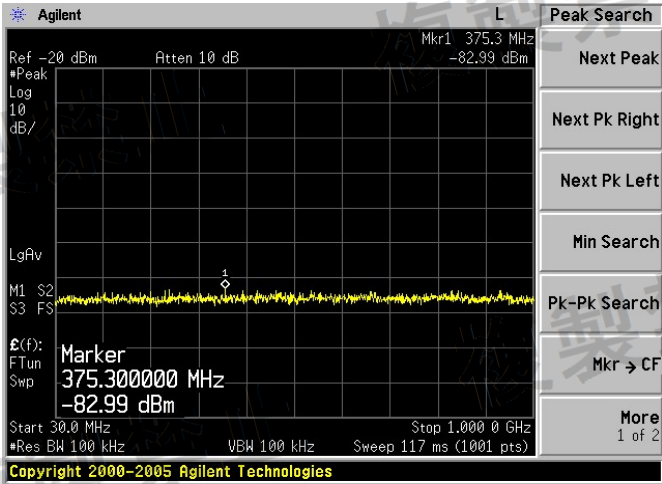


8.5 副次的に発する電波等の限度

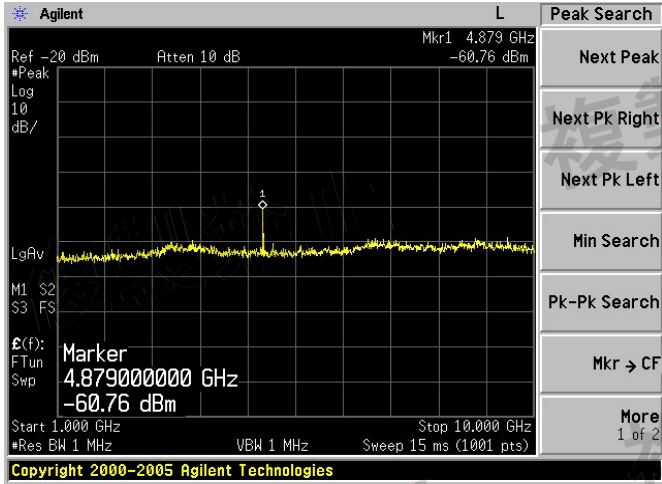
Secondary emitted radio wave strength

EDR

30MHz-1GHz



1GHz-10GHz



10GHz-12.5GHz

