

試験報告書

TEST REPORT

Report number 報告書番号 : KR0140-RJ2411-007

Issue date 発行日 : 2024-11-21

申請者 Applicant	:	Sena Technologies Co., Ltd. 19, Heolleung-ro 569-gil, Gangnam-gu, Seoul, Korea
型式又は名称 Model name	:	SP123
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	:	2024-11-14
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、報告書の一部分だけを複製することを禁止します。

測定者;
Tested by;


Joonyoung, Jeon

承認者;
Approved by;


Jong-Myoung, Shin

1. Summary of Test

1. Purpose of test

Ordinance on Technical Standards Conformity Certification of Specified Radio Equipment

2.4 GHz 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

Article 88 Appendix 43	Classification of EUT	Condition	Result
1	Voltage fluctuation	Conducted	PASS
3	Frequency Tolerance	Conducted	PASS
4	Occupied Bandwidth	Conducted	PASS
4	Spread Bandwidth	Conducted	PASS
5	Unwanted (Spurious) Emission Strength	Conducted	PASS
6	RF Output Power Tolerance	Conducted	PASS
7	Secondary Emitted Radio Wave Strength	Conducted	PASS
8	Carrier Sensing Function (1)	Conducted	N/A
9	Carrier Sensing Function (2)	Conducted	N/A
10	Carrier Sensing Function (3)	Conducted	N/A
11	Transmit Frequency Switching Function	Conducted	N/A
12	Absolute Gain of Transmission Antenna	Conducted	N/A
13	Angle Width of Principal Radiation from Transmission Antenna	Conducted	N/A
14	Interference Prevention Function	Conducted	PASS
15	Hopping frequency dwell time	Conducted	PASS

1) Test set up

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2) Modification to the EUT by laboratory

None

2. Test Information

1. Applicant
Sena Technologies Co., Ltd.
19, Heolleung-ro 569-gil, Gangnam-gu, Seoul, Korea

2. Equipment under test
CAST

3. Model number
SP123

4. Serial number
-

5. RF Specification Frequency range
Bluetooth BDR, EDR: 2402-2480MHz

6. Number of RF Channels
Bluetooth BDR, EDR: 79 Channels

7. Modulation method
Bluetooth BDR, EDR: GFSK, $\pi/4$ DQPSK, 8DPSK

8. Data rate
-

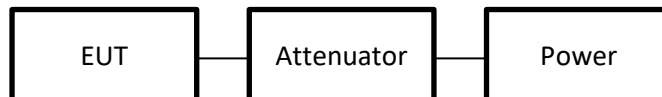
9. Variation of the family model(s)
None

3. Configuration of equipment

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



2. RF Output Power



4. 試験結果

Test results

BDR

Environment of test room	Date of test	2024-11-14
	Temperature	23.9 °C
	Humidity	41.5 %

Peak Antenna Gain	0.30	dBi
Declaration Output Power	0.8	mW/MHz
Declaration Output Power	-0.969	dBm/MHz
E.I.R.P.	-0.669	dBm/MHz
Input Power Voltage	3.70	VDC

Frequency equal to the Transmission rate		1	MHz
Transmission Time	ON TIME	2.895	ms
	OFF TIME	0.855	ms
	Ratio	0.772	
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	2 402	2 441	2 480	Result	Limit	Note
Channel Number	Ch.	0	39	78	---	---	
Frequency Measurements	MHz	2 401.972 149	2 440.970 873	2 479.971 342	---	---	
Frequency Tolerance	ppm	-11.59	-11.93	-11.56	PASS	$\pm 50 \times 10^{-6}$ (50ppm)	
Occupied Bandwidth	MHz	---	77.86	---	PASS	83.5MHz or below	
Spread Bandwidth	MHz	---	70.13	---	PASS	500kHz or more	
RF Output Power	mW/MHz	0.27	0.50	0.43	PASS	3mW/MHz or below	
RF Output Power Tolerance	%	-65.86	-36.94	-45.66	PASS	Up to +20%	
Unwanted (Spurious) Emission Strength	30 to 2 387 MHz	μ W/MHz	---	0.21	PASS	2.5 μ W/MHz or below	
		MHz	---	2 319.000 000	----		
	2 387 to 2 400 MHz	μ W/MHz	---	3.10	PASS	25 μ W/MHz or below	
		MHz	---	2 399.970 000	----		
	2 483.5 to 2 496.5 MHz	μ W/MHz	---	0.97	PASS	25 μ W/MHz or below	
		MHz	---	2 483.540 000	----		
	2 496.5 to 12 500 MHz	μ W/MHz	---	0.27	PASS	2.5 μ W/MHz or below	
		MHz	---	2 560.000 000	----		
Secondary Emitted Radio Wave Strength	30 to 1 000 MHz	nW	---	0.02	PASS	4nW or below	
		MHz	---	423.800 000	----		
	1 000 to 10 000 MHz	nW	---	0.46	PASS	20nW or below	
		MHz	---	7 174.000 000	----		
	10 000 to 12 500 MHz	nW	---	0.32	PASS	20nW or below	
		MHz	---	#####	----		
Time of occupancy hopping frequency	sec	---	0.002 895	---	PASS	0.4sec or below	
	sec	---	0.272 130	---	PASS	0.4sec or below	0.4sec $\times$ Spread rate
Spreading Factor	---		70.127		PASS	5 or more	
Interference Prevention Function		Good			PASS		

4. 試験結果

Test results

BDR AFH

Environment of test room	Date of test	2024-11-14
	Temperature	23.9 °C
	Humidity	41.5 %

Peak Antenna Gain	0.30	dBi
Declaration Output Power	3	mW/MHz
Declaration Output Power	4.771	dBm/MHz
E.I.R.P.	5.071	dBm/MHz
Input Power Voltage	3.70	VDC

Frequency equal to the Transmission rate		1	MHz
Transmission Time	ON TIME	2.895	ms
	OFF TIME	0.855	ms
	Ratio	0.772	
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	19.49	19.58	19.56	PASS	83.5MHz or below	
Spread Bandwidth		MHz	17.70	18.20	18.01	PASS	500kHz or more	
RF Output Power		mW/MHz	1.06	1.90	1.66	PASS	3mW/MHz or below	
RF Output Power Tolerance		%	-64.57	-36.77	-44.51	PASS	Up to +20%	
Unwanted (Spurious) Emission Strength	30 to 2 387 MHz	uW/MHz	0.03	0.04	0.04	PASS	2.5uW/MHz or below	
		MHz	2 264.000 000	2 279.000 000	2 314.000 000	----		
	2 387 to 2 400 MHz	uW/MHz	0.13	0.02	0.02	PASS	25uW/MHz or below	
		MHz	2 399.990 000	2 398.490 000	2 396.200 000	----		
	2 483.5 to 2 496.5 MHz	uW/MHz	0.02	0.02	0.02	PASS	25uW/MHz or below	
		MHz	2 492.090 000	2 491.380 000	2 489.300 000	----		
	2 496.5 to 12 500 MHz	uW/MHz	0.07	0.04	0.04	PASS	2.5uW/MHz or below	
		MHz	2 570.000 000	7 700.000 000	7 010.000 000	----		
Secondary Emitted Radio Wave Strength	30 to 1 000 MHz	nW	---	---	---	---	---	
		MHz	---	---	---	---	---	
	1 000 to 10 000 MHz	nW	---	---	---	---	---	
		MHz	---	---	---	---	---	
	10 000 to 12 500 MHz	nW	---	---	---	---	---	
		MHz	---	---	---	---	---	
Time of occupancy hopping frequency		sec	0.002 895	0.002 895	0.002 895	PASS	0.4sec or below	
		sec	0.272 130	0.280 815	0.280 815	PASS	0.4sec or below	0.4sec×Spread rate
Spreading Factor		---	17.703	18.204	18.009	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	2024-11-14
	Temperature	23.9 °C
	Humidity	41.5 %

Peak Antenna Gain	0.30	dBi
Declaration Output Power	0.04	mW/MHz
Declaration Output Power	-13.979	dBm/MHz
E.I.R.P.	-13.679	dBm/MHz
Input Power Voltage	3.70	VDC

Frequency equal to the Transmission rate		1	MHz
Transmission Time	ON TIME	2.910	ms
	OFF TIME	0.840	ms
	Ratio	0.776	
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	2 402	2 441	2 480	Result	Limit	Note
Channel Number		Ch.	0	39	78	---	---	
Frequency Measurements		MHz	2 401.971 670	2 440.970 530	2 479.971 092	---	---	
Frequency Tolerance		ppm	-11.79	-12.07	-11.66	PASS	±50×10 ⁻⁶ (50ppm)	
Occupied Bandwidth		MHz	---	78.03	---	PASS	83.5MHz or below	
Spread Bandwidth		MHz	---	70.31	---	PASS	500kHz or more	
RF Output Power		mW/MHz	0.01	0.03	0.02	PASS	3mW/MHz or below	
RF Output Power Tolerance		%	-66.17	-31.16	-40.80	PASS	Up to +20%	
Unwanted (Spurious) Emission Strength	30 to 2 387 MHz	uW/MHz	---	0.03	---	PASS	2.5uW/MHz or below	
		MHz	---	2 283.000 000	---	-----		
	2 387 to 2 400 MHz	uW/MHz	---	8.41	---	PASS	25uW/MHz or below	
		MHz	---	2 399.990 000	---	-----		
	2 483.5 to 2 496.5 MHz	uW/MHz	---	0.06	---	PASS	25uW/MHz or below	
		MHz	---	2 483.620 000	---	-----		
	2 496.5 to 12 500 MHz	uW/MHz	---	0.04	---	PASS	2.5uW/MHz or below	
MHz		---	#####	---	-----			
Secondary Emitted Radio Wave Strength	30 to 1 000 MHz	nW	---	0.01	---	PASS	4nW or below	
		MHz	---	785.600 000	---	-----		
	1 000 to 10 000 MHz	nW	---	0.39	---	PASS	20nW or below	
		MHz	---	7 759.000 000	---	-----		
	10 000 to 12 500 MHz	nW	---	0.30	---	PASS	20nW or below	
		MHz	---	#####	---	-----		
Time of occupancy hopping frequency		sec	---	0.002 910	---	PASS	0.4sec or below	
		sec	---	0.276 450	---	PASS	0.4sec or below	0.4sec×Spread rate
Spreading Factor		---		70.306		PASS	5 or more	
Interference Prevention Function			Good			PASS		

4. 試験結果

Test results

EDR AFH

Environment of test room	Date of test	2024-11-14
	Temperature	23.9 °C
	Humidity	41.5 %

Peak Antenna Gain	0.30	dBi
Declaration Output Power	0.16	mW/MHz
Declaration Output Power	-7.959	dBm/MHz
E.I.R.P.	-7.659	dBm/MHz
Input Power Voltage	3.70	VDC

Frequency equal to the Transmission rate		1	MHz
Transmission Time	ON TIME	2.895	ms
	OFF TIME	0.850	ms
	Ratio	0.773	
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	19.88	19.92	19.95	PASS	83.5MHz or below	
Spread Bandwidth		MHz	17.80	18.14	18.16	PASS	500kHz or more	
RF Output Power		mW/MHz	0.05	0.10	0.09	PASS	3mW/MHz or below	
RF Output Power Tolerance		%	-67.65	-36.44	-43.76	PASS	Up to +20%	
Unwanted (Spurious) Emission Strength	30 to 2 387 MHz	uW/MHz	0.03	0.03	0.03	PASS	2.5uW/MHz or below	
		MHz	#####	#####	#####	----		
	2 387 to 2 400 MHz	uW/MHz	9.40	0.02	0.02	PASS	25uW/MHz or below	RBW 30 kHz
		MHz	#####	#####	#####	----		
	2 483.5 to 2 496.5 MHz	uW/MHz	0.02	0.02	0.06	PASS	25uW/MHz or below	
		MHz	#####	#####	#####	----		
	2 496.5 to 12 500 MHz	uW/MHz	0.05	0.05	0.05	PASS	2.5uW/MHz or below	
		MHz	#####	#####	#####	----		
Secondary Emitted Radio Wave Strength	30 to 1 000 MHz	nW	---	---	---	---	---	
		MHz	---	---	---	---	---	
	1 000 to 10 000 MHz	nW	---	---	---	---	---	
		MHz	---	---	---	---	---	
	10 000 to 12 500 MHz	nW	---	---	---	---	---	
		MHz	---	---	---	---	---	
Time of occupancy hopping frequency		sec	0.002 895	0.002 895	0.002 895	PASS	0.4sec or below	
		sec	0.275 025	0.275 025	0.275 025	PASS	0.4sec or below	0.4sec×Spread rate
Spreading Factor		---	17.803	18.139	18.161	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
	TEMP & HUMID CHAMBER	(주) 제이에프엠엔지니어링	JFMA-001	20200929-01	HCT	ㄱㄴ(c)	Nov. 2025	Nov. 6, 2024
	CONTROLLER	주식회사 삼원테크놀로지	TEMI2500	S7800VK191 0707	HCT	ㄱㄴ(c)	Nov. 2025	Nov. 6, 2024
X	PSA SERIES SPECTRUM ANALYZER	AGILENT	E4440A	MY45304057	HCT	ㄱㄴ(c)	Nov. 2025	Nov. 7, 2024
X	MXG ANALOG SIGNAL GENERATOR	AGILENT	N5183A	MY50141890	HCT	ㄱㄴ(c)	Nov. 2025	Nov. 7, 2024
X	SYSTEM DC POWER SUPPLY	AGILENT	6674A	MY53000118	HCT	ㄱㄴ(c)	Nov. 2025	Nov. 7, 2024
	VECTOR SIGNAL GENERATOR	ROHDE & SCHWARZ	SMBV100A	257524	HCT	ㄱㄴ(c)	Nov. 2025	Nov. 7, 2024
	BLUETOOTH TESTER	TESCOM	TC-3000A	3000A480088	HCT	ㄱㄴ(c)	Nov. 2025	Nov. 7, 2024
	DIRECTIONAL COUPLER	AGILENT	773D	2839A01855	HCT	ㄱㄴ(c)	Nov. 2025	Nov. 7, 2024
	ATTENUATOR	AGILENT	8493C	73193	HCT	ㄱㄴ(c)	Nov. 2025	Nov. 7, 2024
	TERMINATION	HEWLETT PACKARD	909D	7492	HCT	ㄱㄴ(c)	Nov. 2025	Nov. 7, 2024
	POWER DIVIDER	HEWLETT PACKARD	11636A	6916	HCT	ㄱㄴ(c)	Nov. 2025	Nov. 7, 2024
	SLIDE-AC	대광전자	SV-1023	NONE	HCT	ㄱㄴ(c)	Nov. 2025	Nov. 7, 2024
	DIGITAL MULTIMETER	휴먼테크스토어	15B+	50561541WS	HCT	ㄱㄴ(c)	Nov. 2025	Nov. 7, 2024
	Temperature and Humidity Datalogger	CEM	DT-172	201000251	HCT	ㄱㄴ(c)	Apr. 2025	Apr. 5, 2024
	ATTENUATOR	에이스 알에프 컴	ATT SMA 20W 20dB 8G	A-0820.SM20.2	HCT	ㄱㄴ(c)	Apr. 2025	Apr. 4, 2024
	TERMINATION	에이스 알에프 컴	TERM SMA F 20W 8G	A-0008.SM20.2	HCT	ㄱㄴ(c)	Apr. 2025	Apr. 4, 2024
	ATTENUATOR	에이스 알에프 컴	ATT 2.92 2W 20dB 40G	A-4020.2902.1	HCT	ㄱㄴ(c)	Apr. 2025	Apr. 4, 2024
	ATTENUATOR	에이스 알에프 컴	ATT 2.92 2W 20dB 40G	A-4020.2902.1	HCT	ㄱㄴ(c)	Apr. 2025	Apr. 4, 2024
	ATTENUATOR	에이스 알에프 컴	ATT 2.92 2W 20dB 40G	A-4020.2902.1	HCT	ㄱㄴ(c)	Apr. 2025	Apr. 4, 2024
	TERMINATION	에이스 알에프 컴	TERM 2.92 F 2W 40G	A-0040.2920.2	HCT	ㄱㄴ(c)	Apr. 2025	Apr. 4, 2024
	TERMINATION	에이스 알에프 컴	TERM 2.92 F 2W 40G	A-0040.2920.2	HCT	ㄱㄴ(c)	Apr. 2025	Apr. 4, 2024
	TERMINATION	에이스 알에프 컴	TERM 2.92 F 2W 40G	A-0040.2920.2	HCT	ㄱㄴ(c)	Apr. 2025	Apr. 4, 2024
	DC POWER SUPPLY	AGILENT	E3634A	MY40012120	HCT	ㄱㄴ(c)	Feb. 2025	Feb. 22, 2024
X	USB Peak Power Sensor	Anritsu	MA24408A	12321	HCT	ㄱㄴ(c)	Nov. 2025	Nov. 8, 2024
	High Pass Filter	WT Microwave INC.	WT-A3314-HS	WT22111804-1	HCT	ㄱㄴ(c)	Nov. 2025	Nov. 7, 2024
	High Pass Filter	WT Microwave INC.	WT-A1935-HS	WT22111804-2	HCT	ㄱㄴ(c)	Dec. 2024	Dec. 8, 2023
	TUNABLE BAND REJECT FILTER	K&L MICROWAVE	3TNF-800/1000-0.2-N/N	504	HCT	ㄱㄴ(c)	Feb. 2025	Feb. 22, 2024
	SPECTRUM ANALYZER	ROHDE & SCHWARZ	FSU26	200444	HCT	ㄱㄴ(c)	Feb. 2025	Feb. 22, 2024
X	ATTENUATOR	Mini-Circuits	BW-K3-2W44+	2318-1	HCT	ㄱㄴ(c)	Jun. 2025	Jun. 28, 2024
	ATTENUATOR	Mini-Circuits	BW-K3-2W44+	2318-2	HCT	ㄱㄴ(c)	Jun. 2025	Jun. 28, 2024
	ATTENUATOR	Mini-Circuits	BW-K10-2W44+	2307	HCT	ㄱㄴ(c)	Jun. 2025	Jun. 28, 2024

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 ...

ㄱ): 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)

ㄴ): 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)

ㄴ): 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

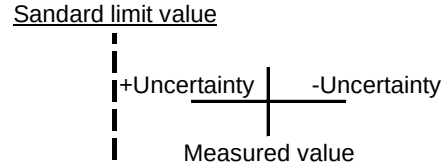
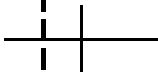
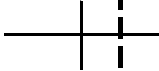
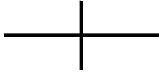
c): Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1)

ㄴ): 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	±0.34 dB
Spurious emissions conducted	±0.34 dB
Temperature	±0.8 °C
Humidity	±4.4 %

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

7. 測定写真

Photographs

Conducted Measurement Photo



8. 測定チャート

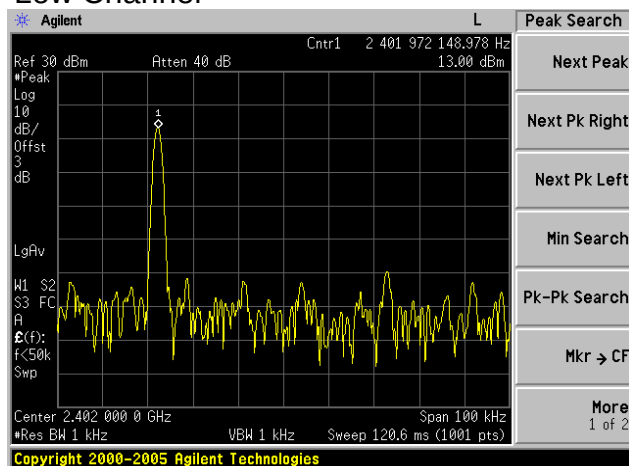
Test chart

8.1 周波数の偏差

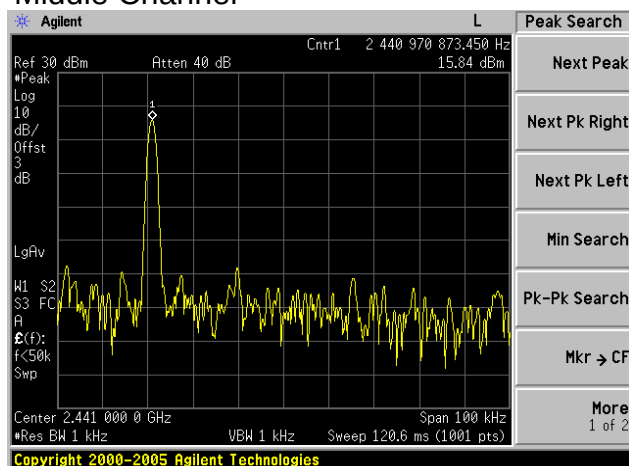
Frequency tolerance

BDR

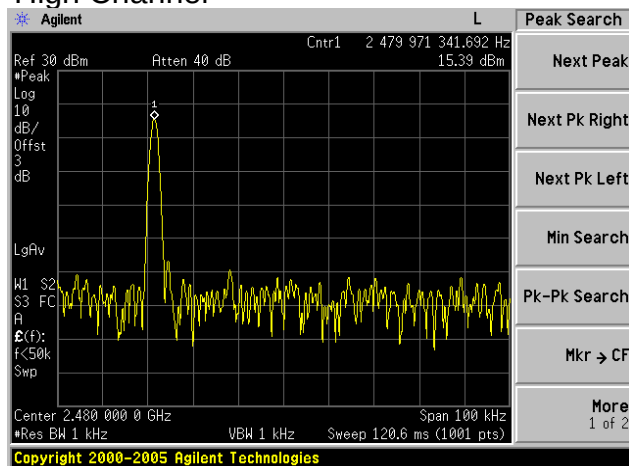
Low Channel



Middle Channel



High Channel



8. 測定チャート

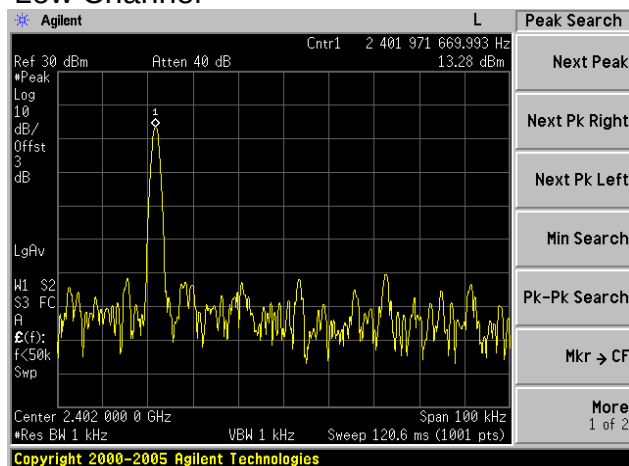
Test chart

8.1 周波数の偏差

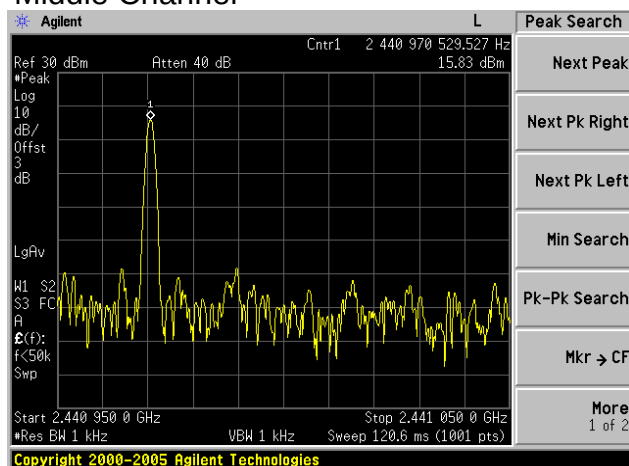
Frequency tolerance

EDR

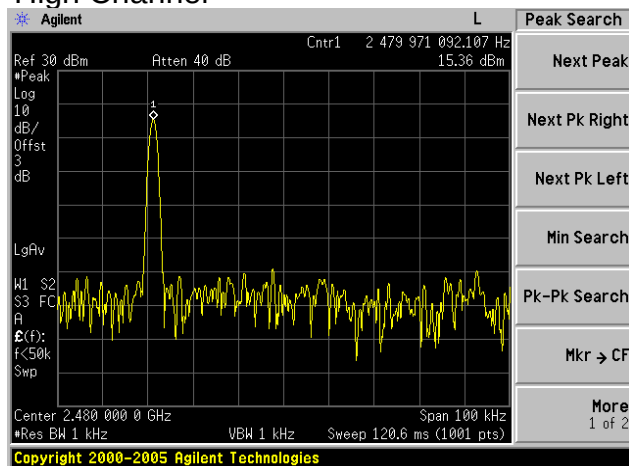
Low Channel



Middle Channel



High Channel

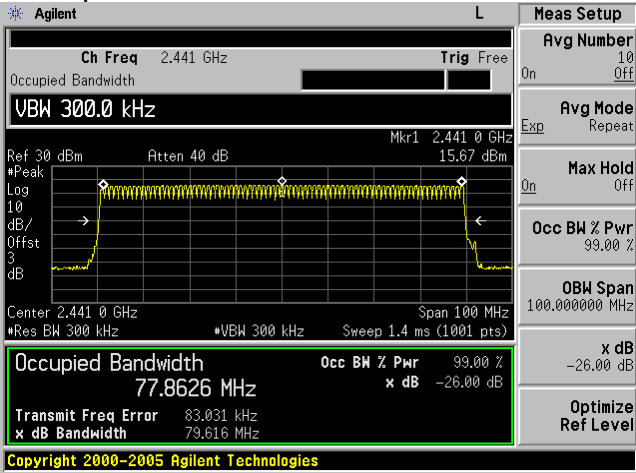


8.2 占有周波数帯幅及び拡散帯域幅

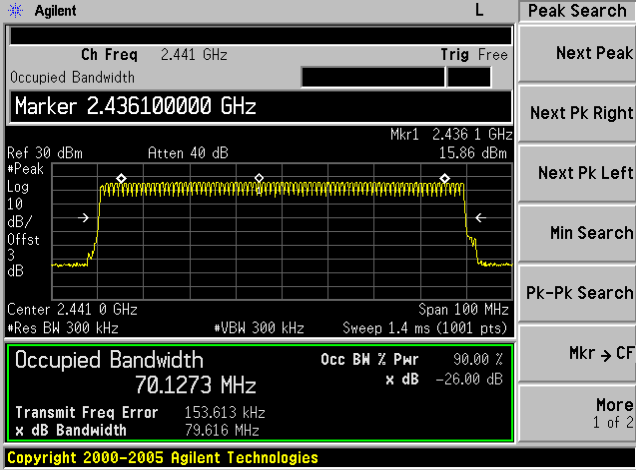
Occupied bandwidth / Spread bandwidth

BDR

Occupied bandwidth



Spread bandwidth

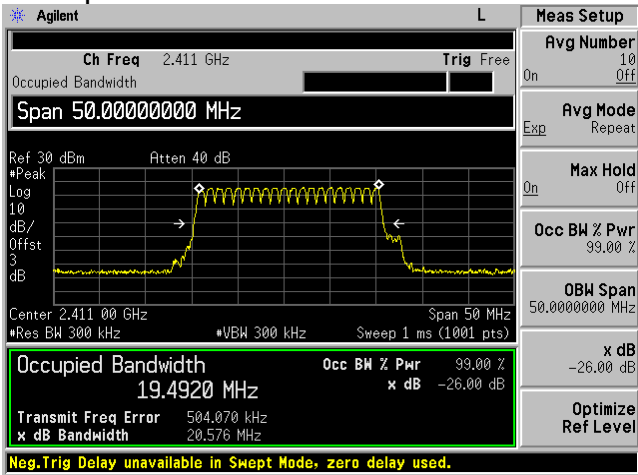


8.2 占有周波数帯幅及び拡散帯域幅

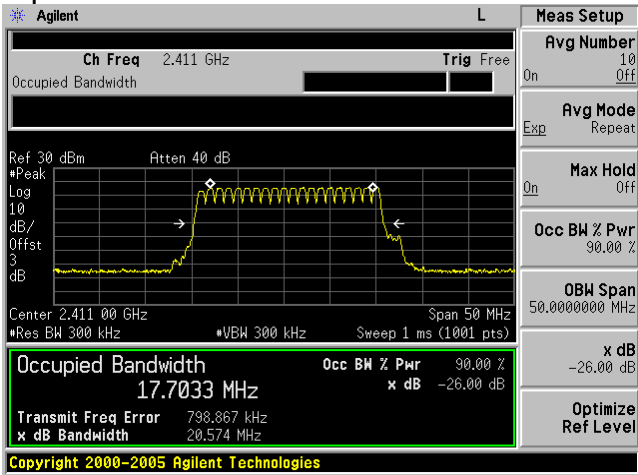
Occupied bandwidth / Spread bandwidth

BDR AFH

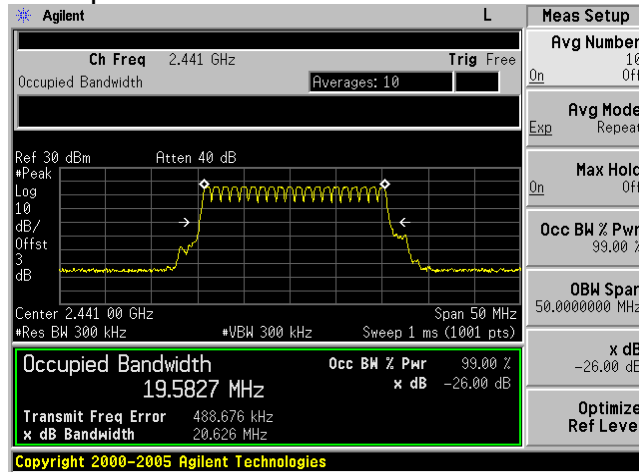
Low Channel
Occupied bandwidth



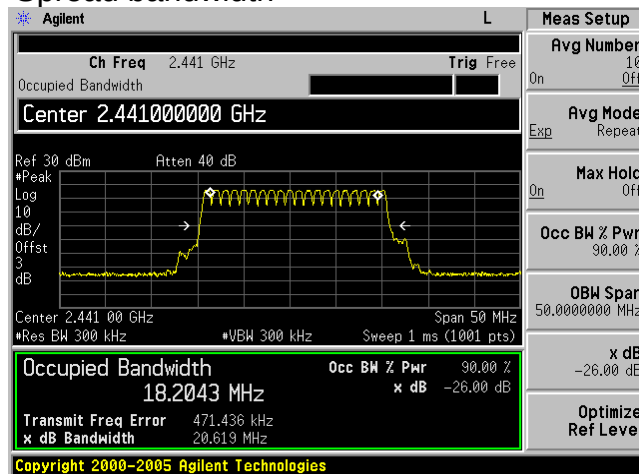
Spread bandwidth



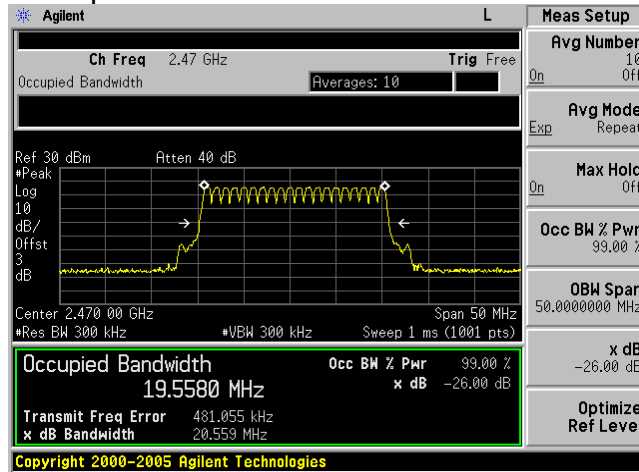
Middle Channel Occupied bandwidth



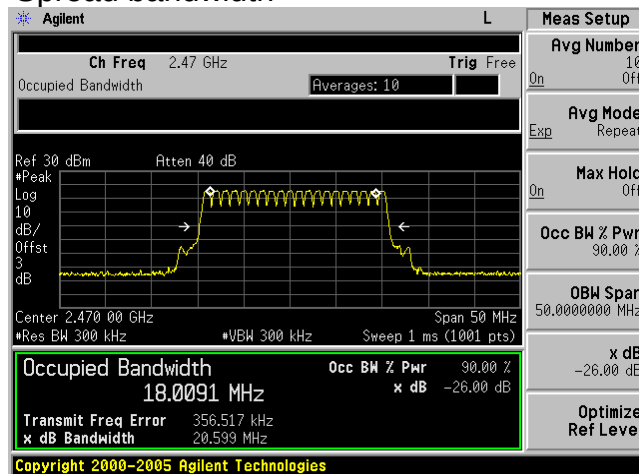
Spread bandwidth



High Channel Occupied bandwidth



Spread bandwidth

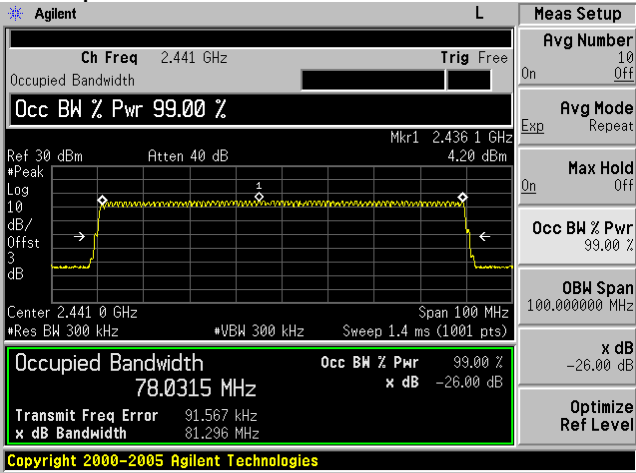


8.2 占有周波数帯幅及び拡散帯域幅

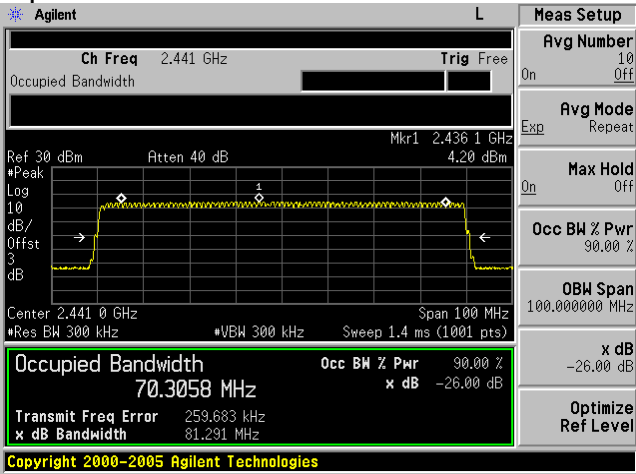
Occupied bandwidth / Spread bandwidth

EDR

Occupied bandwidth



Spread bandwidth

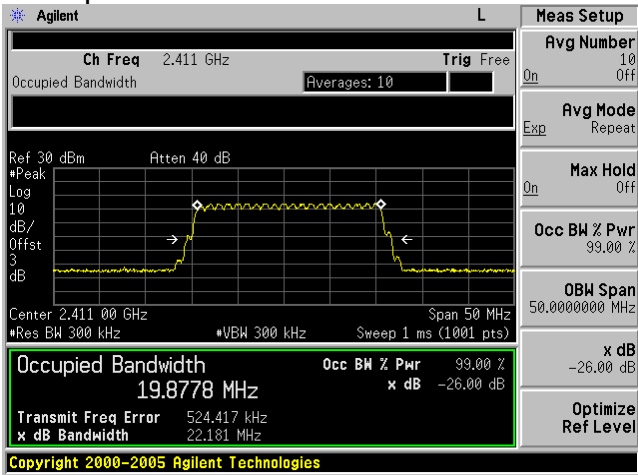


8.2 占有周波数帯幅及び拡散帯域幅

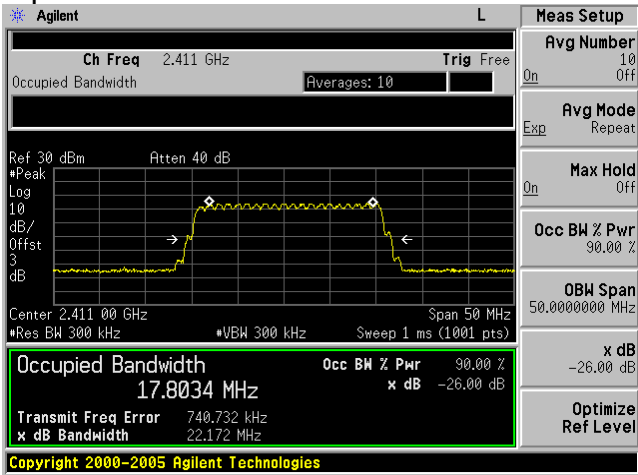
Occupied bandwidth / Spread bandwidth

EDR AFH

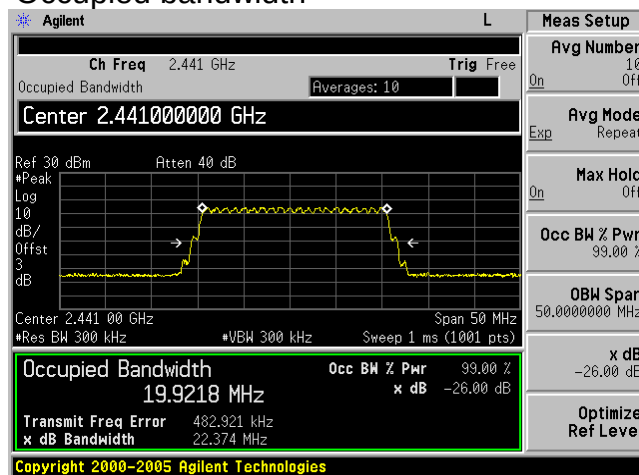
Low Channel
Occupied bandwidth



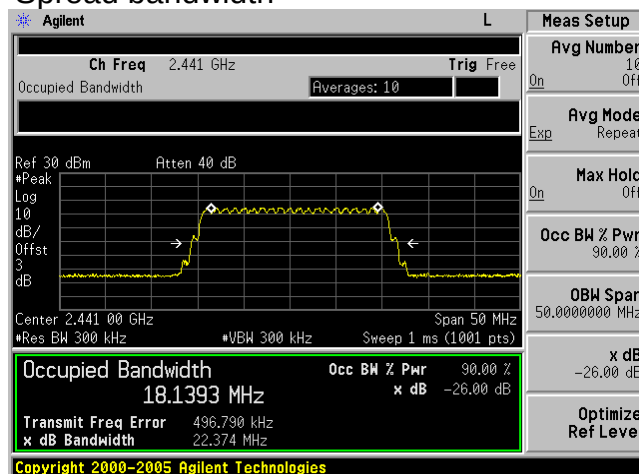
Spread bandwidth



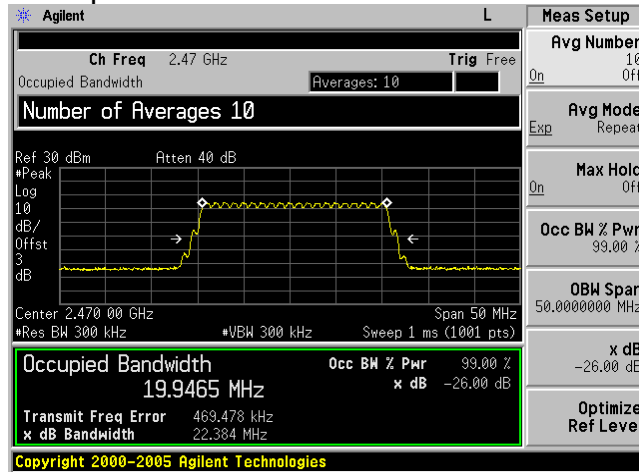
Middle Channel Occupied bandwidth



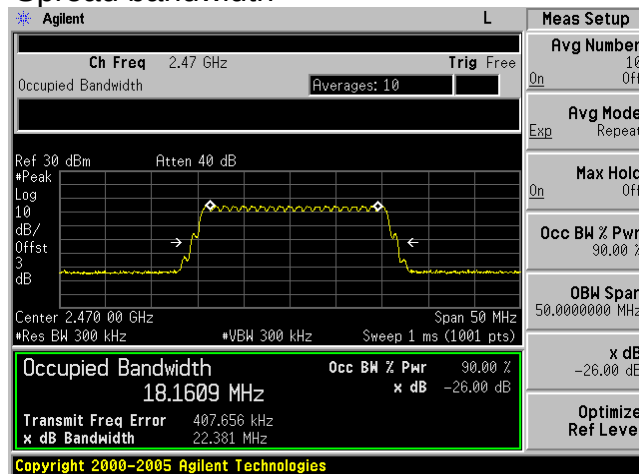
Spread bandwidth



High Channel Occupied bandwidth



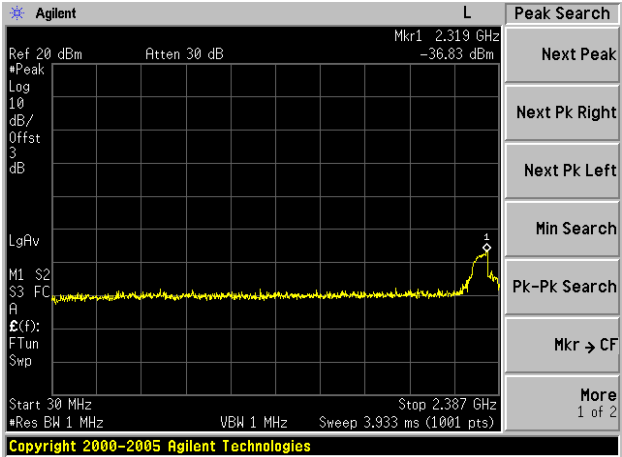
Spread bandwidth



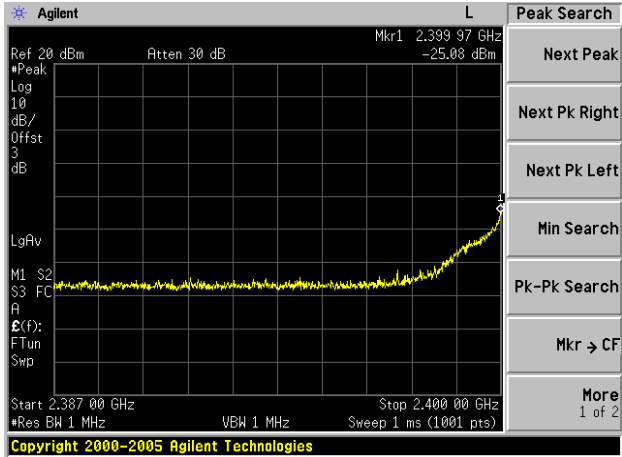
8.3スプリアスの発射又は不要発射の強度
Unwanted(Spurious) emission strength

BDR

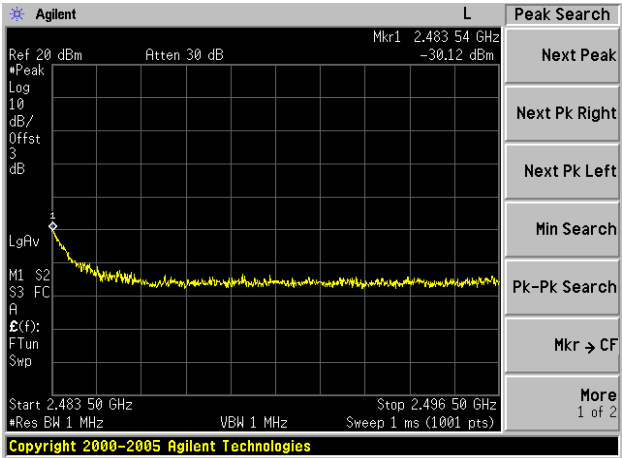
30 - 2 387 MHz



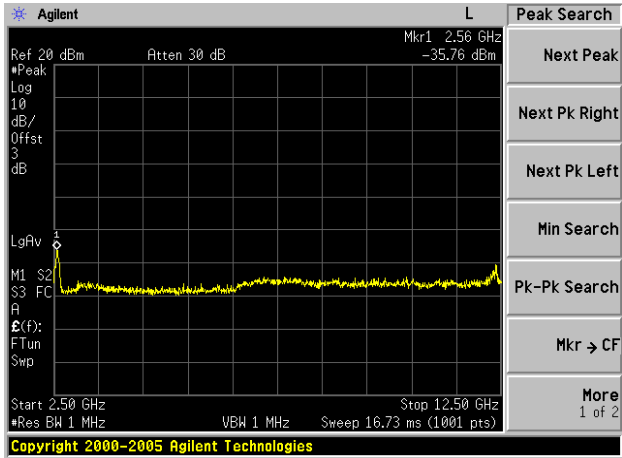
2 387 - 2 400 MHz



2 483.5 - 2 496.5 MHz



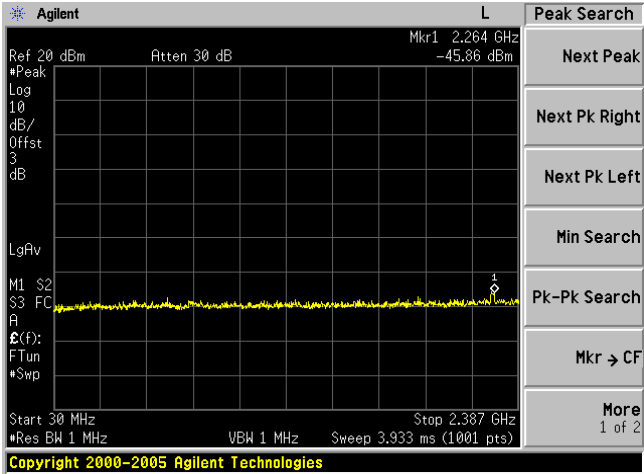
2 496.5 - 12 500 MHz



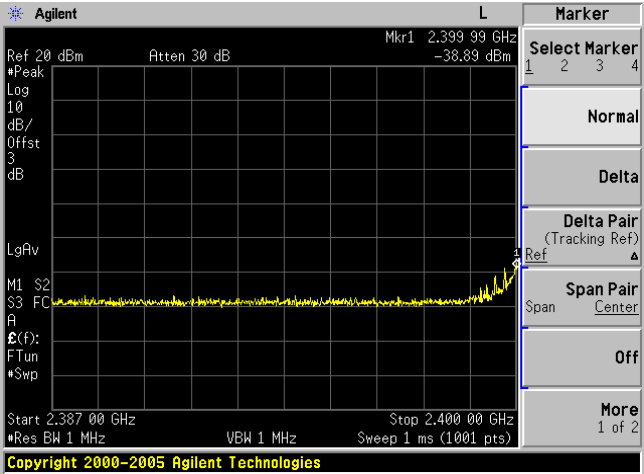
8.3スプリアスの発射又は不要発射の強度
Unwanted(Spurious) emission strength

BDR AFH

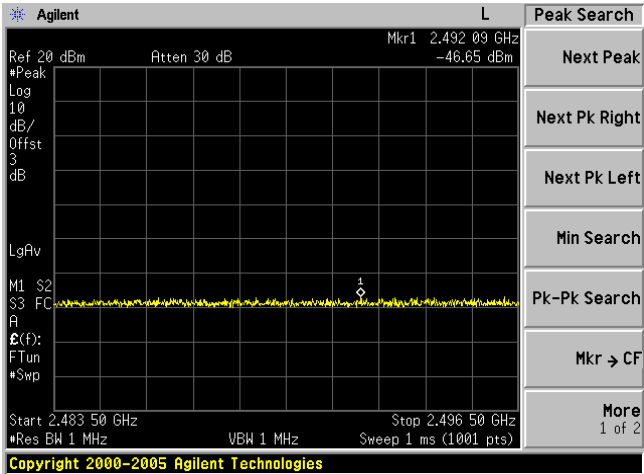
Low Channel
30 - 2 387 MHz



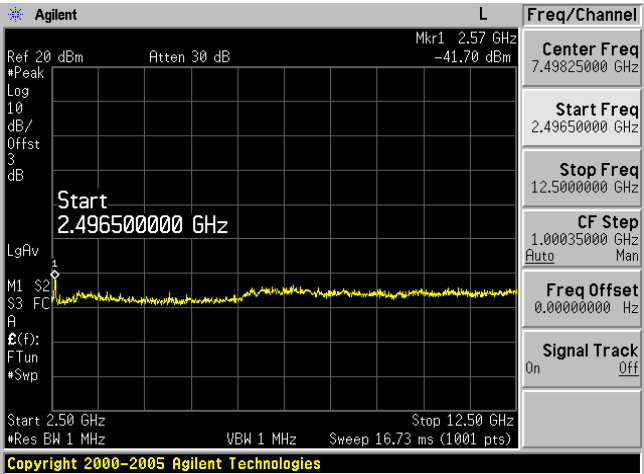
2 387 - 2 400 MHz



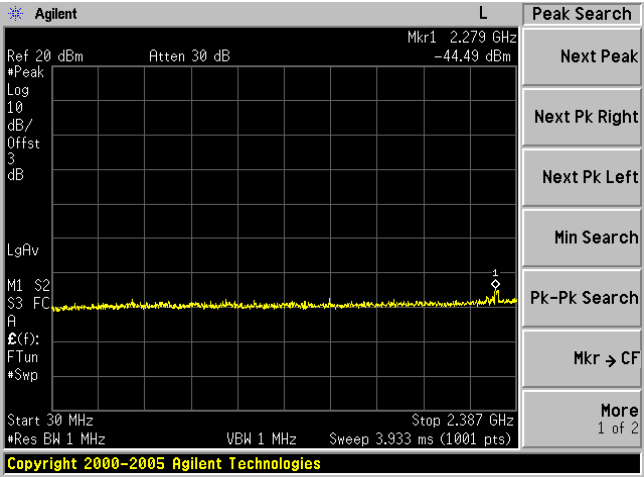
2 483.5 - 2 496.5 MHz



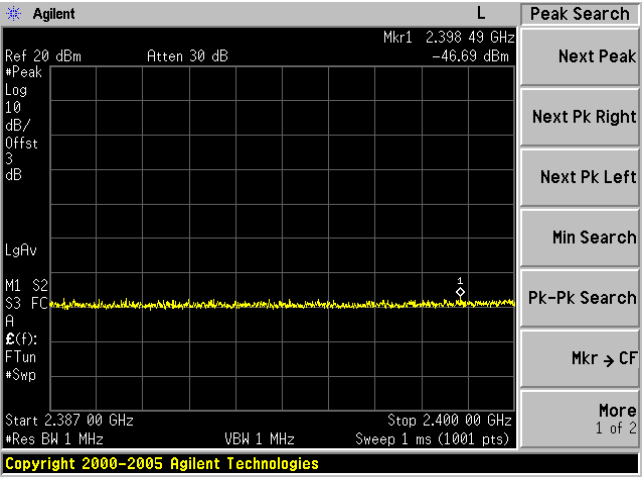
2 496.5 - 12 500 MHz



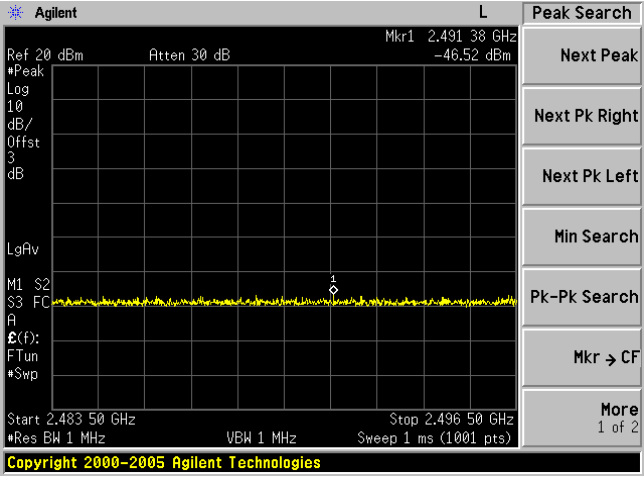
Middle Channel
30 - 2 387 MHz



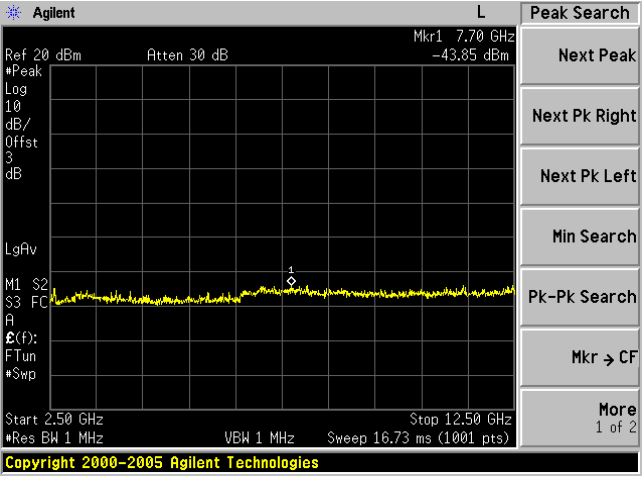
2 387 - 2 400 MHz



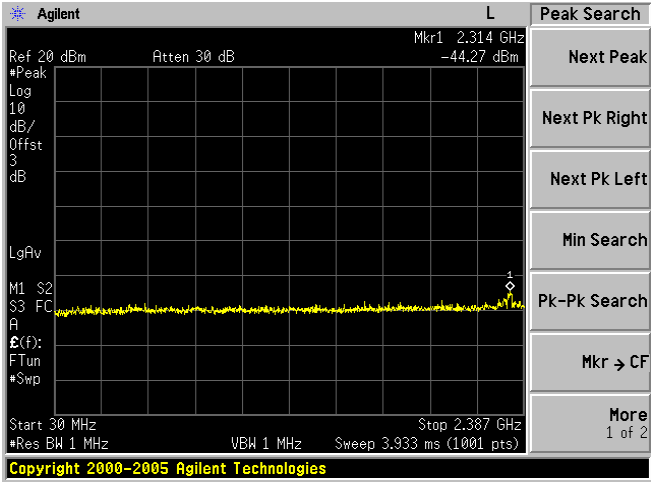
2 483.5 - 2 496.5 MHz



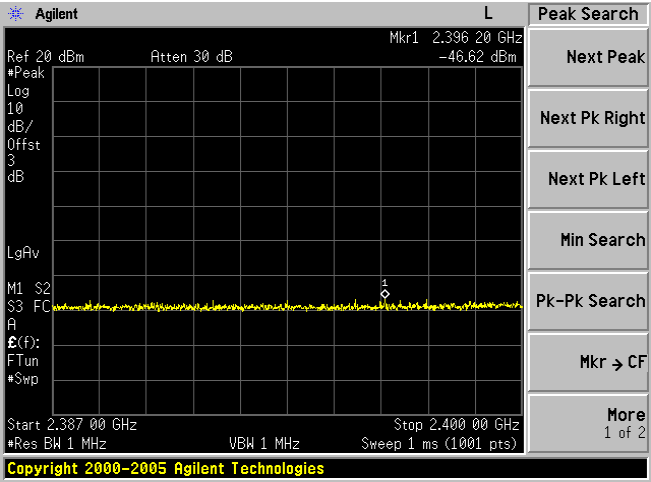
2 496.5 - 12 500 MHz



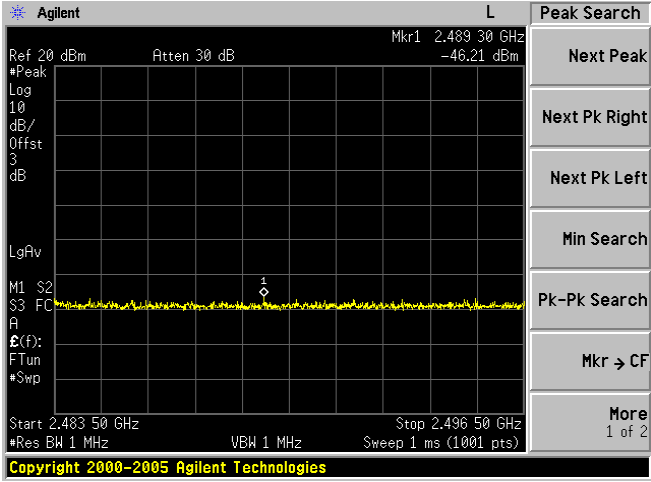
High Channel
30 - 2 387 MHz



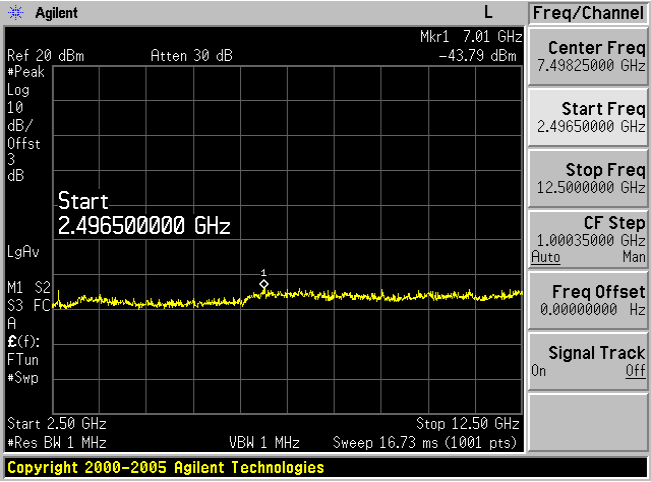
2 387 - 2 400 MHz



2 483.5 - 2 496.5 MHz



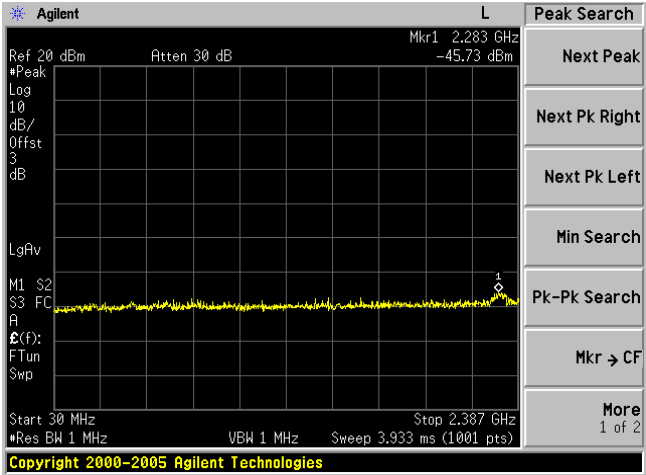
2 496.5 - 12 500 MHz



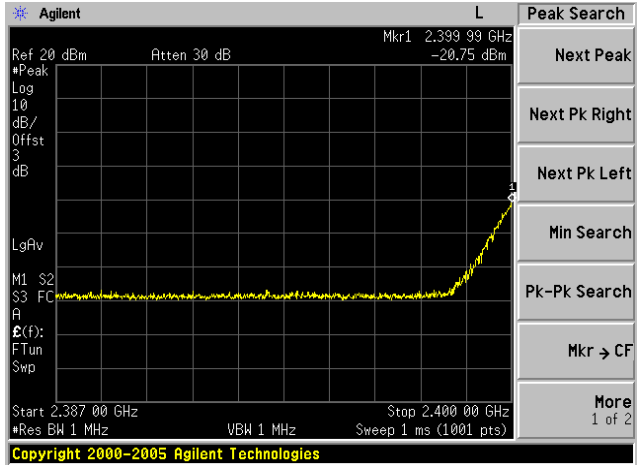
8.3スプリアスの発射又は不要発射の強度
Unwanted(Spurious) emission strength

EDR

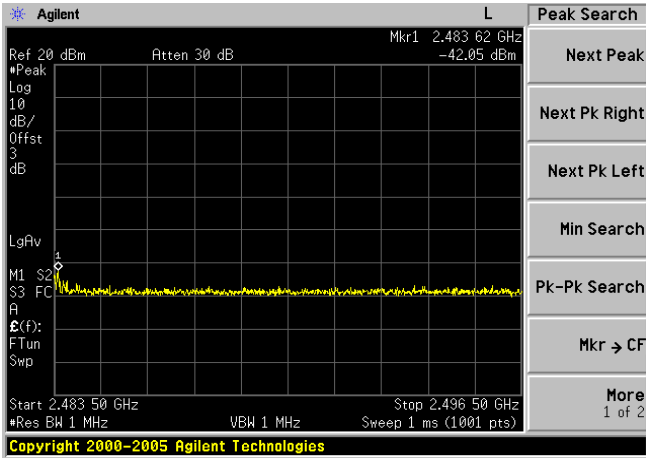
30 - 2 387 MHz



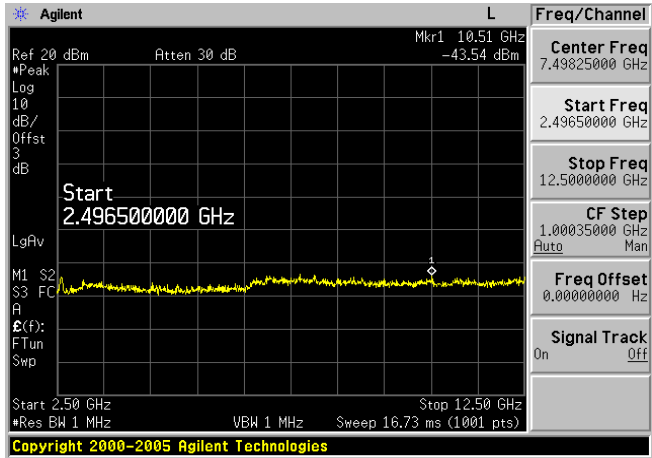
2 387 - 2 400 MHz



2 483.5 - 2 496.5 MHz



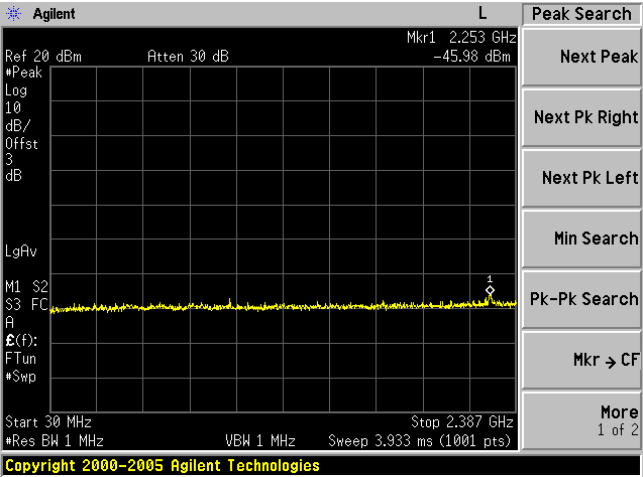
2 496.5 - 12 500 MHz



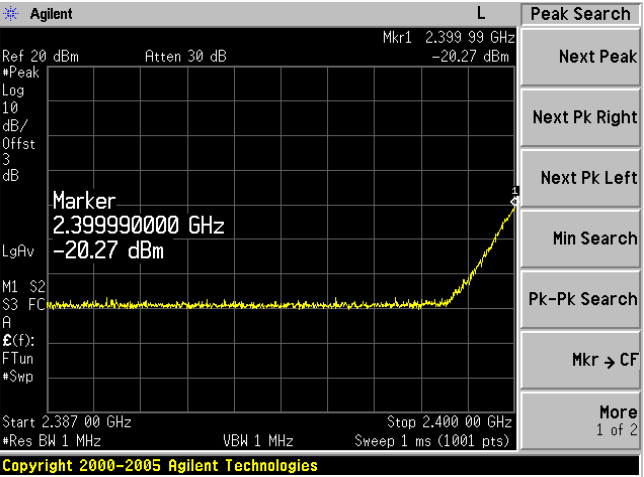
8.3スプリアスの発射又は不要発射の強度
Unwanted(Spurious) emission strength

EDR AFH

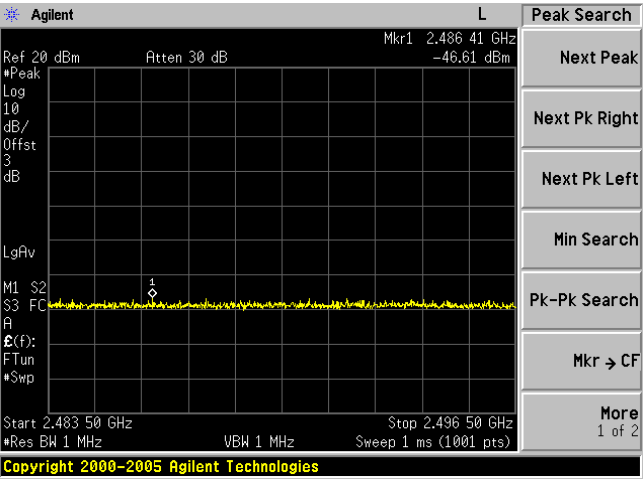
Low Channel
30 - 2 387 MHz



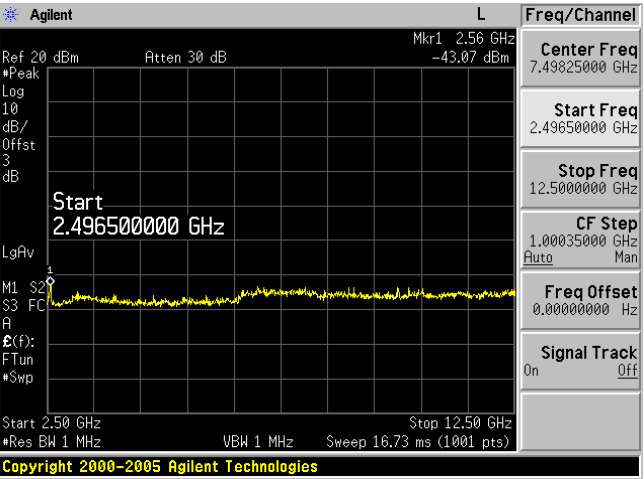
2 387 - 2 400 MHz



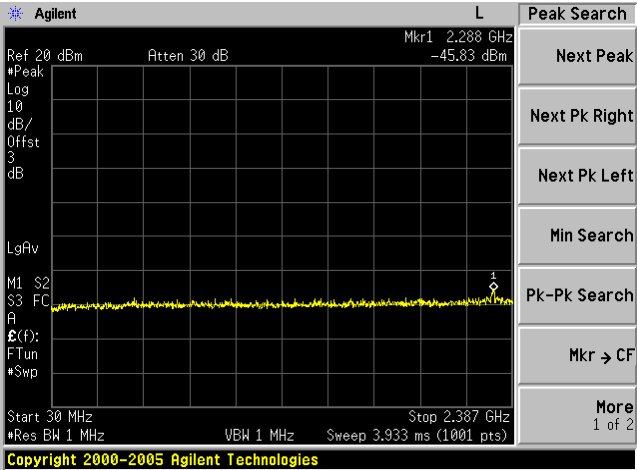
2 483.5 - 2 496.5 MHz



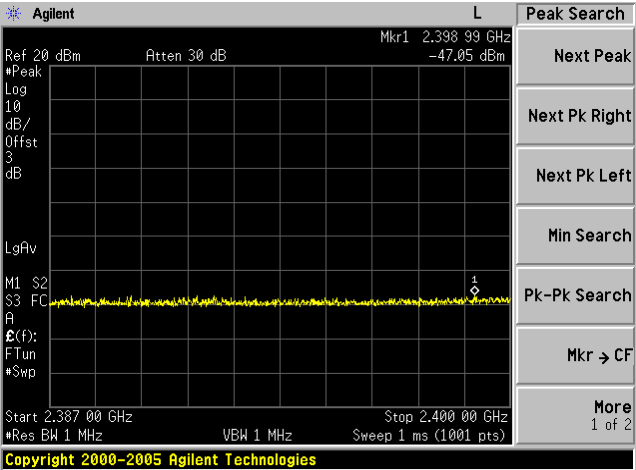
2 496.5 - 12 500 MHz



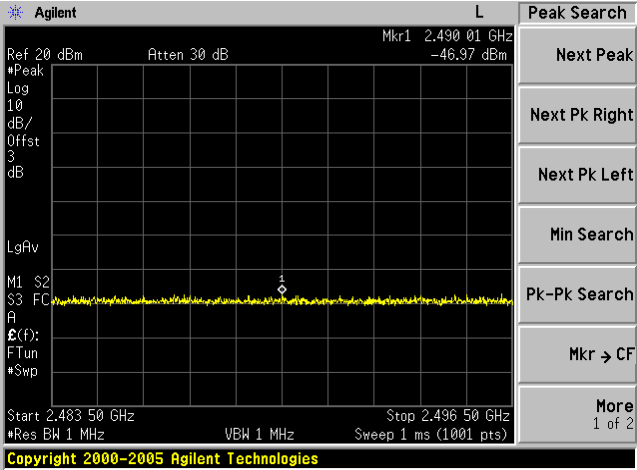
Middle Channel
30 - 2 387 MHz



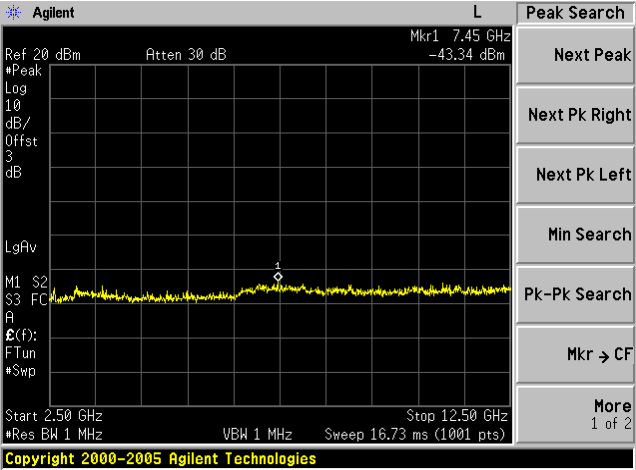
2 387 - 2 400 MHz



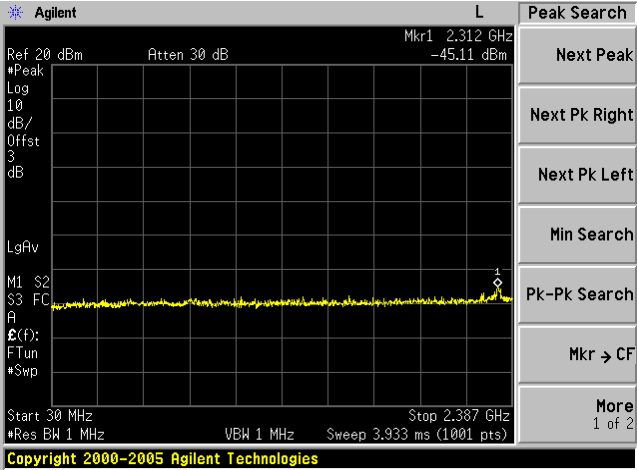
2 483.5 - 2 496.5 MHz



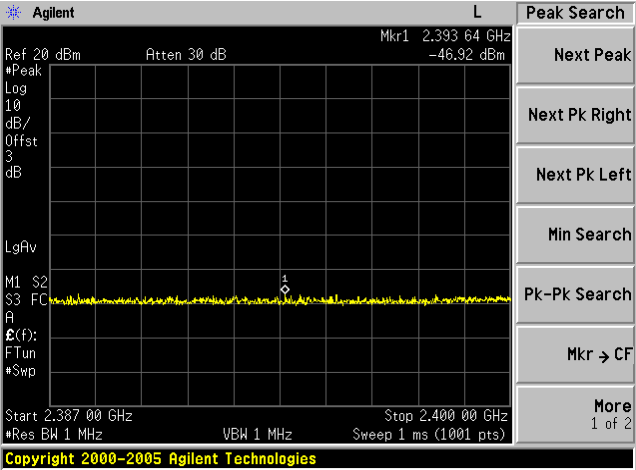
2 496.5 - 12 500 MHz



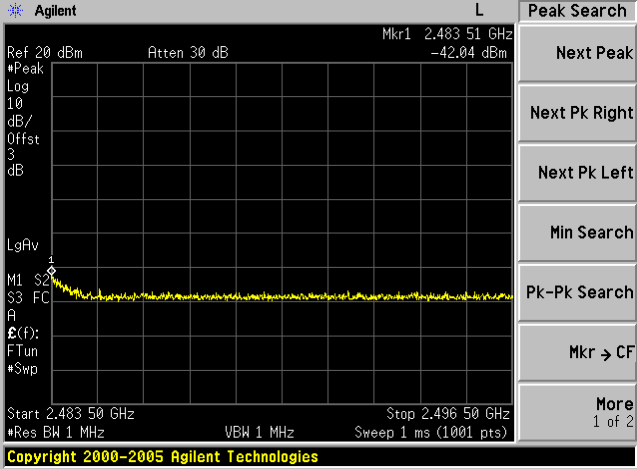
High Channel
30 - 2 387 MHz



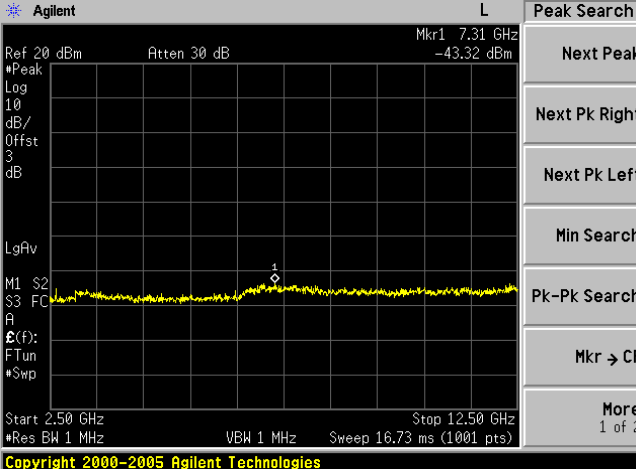
2 387 - 2 400 MHz



2 483.5 - 2 496.5 MHz



2 496.5 - 12 500 MHz

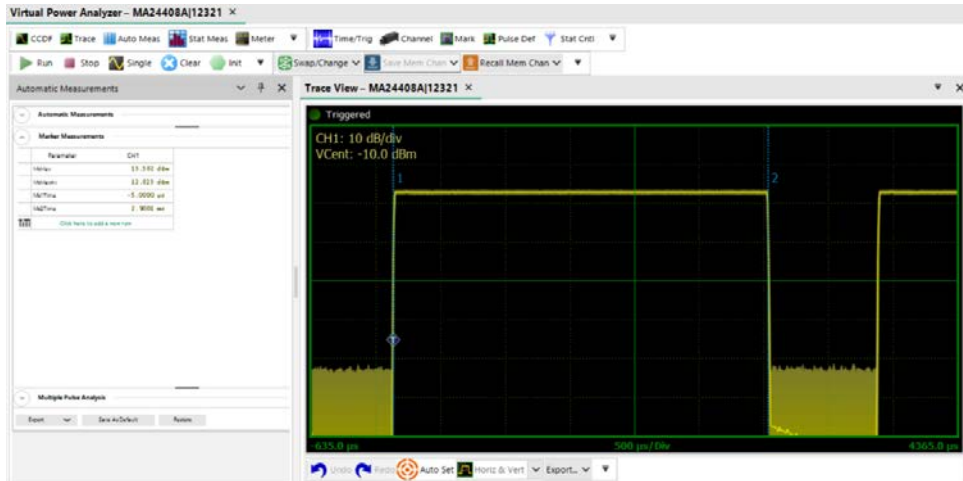


8.4 空中線電力の偏差

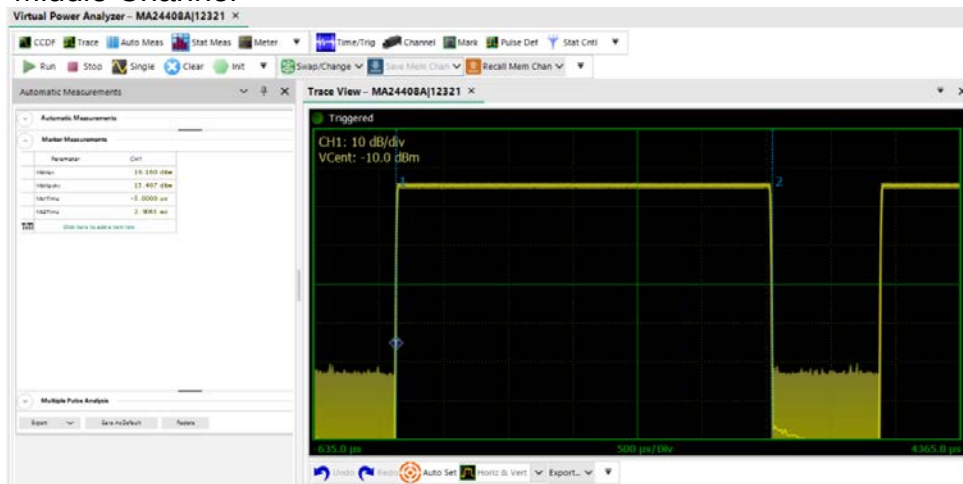
RF output power tolerance

BDR

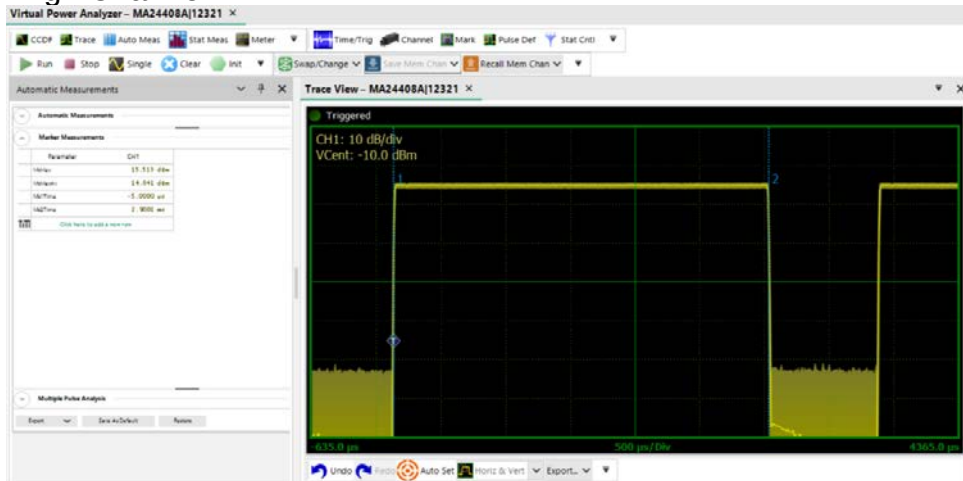
Low Channel



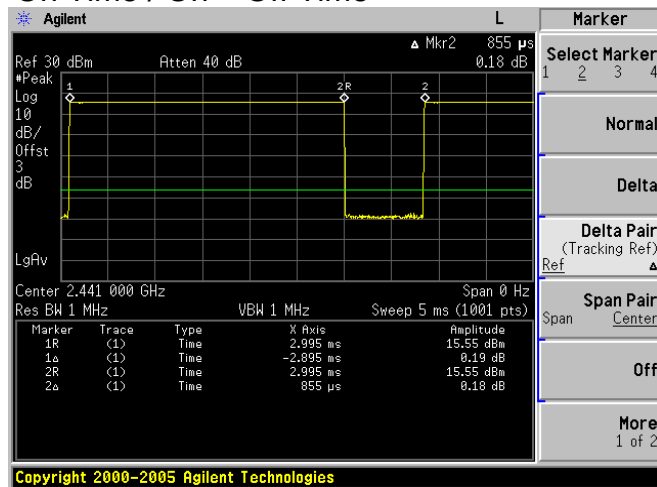
Middle Channel



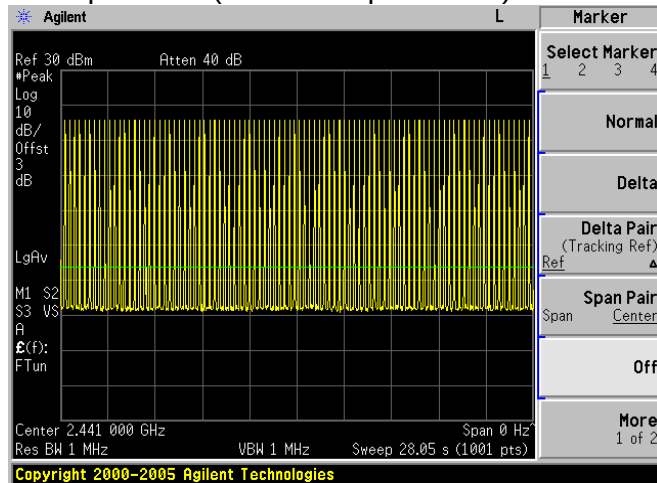
High Channel



On Time / On + Off Time



Sweep Time = (0.4 sec x Spread rate)

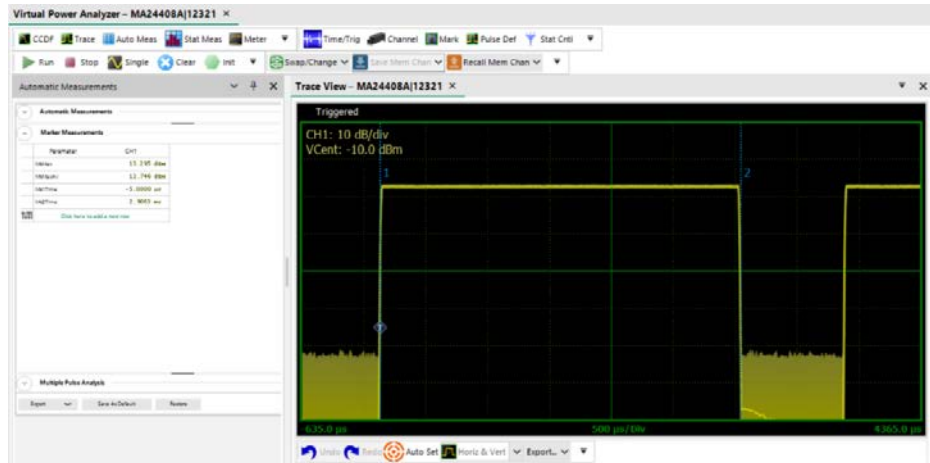


8.4 空中線電力の偏差

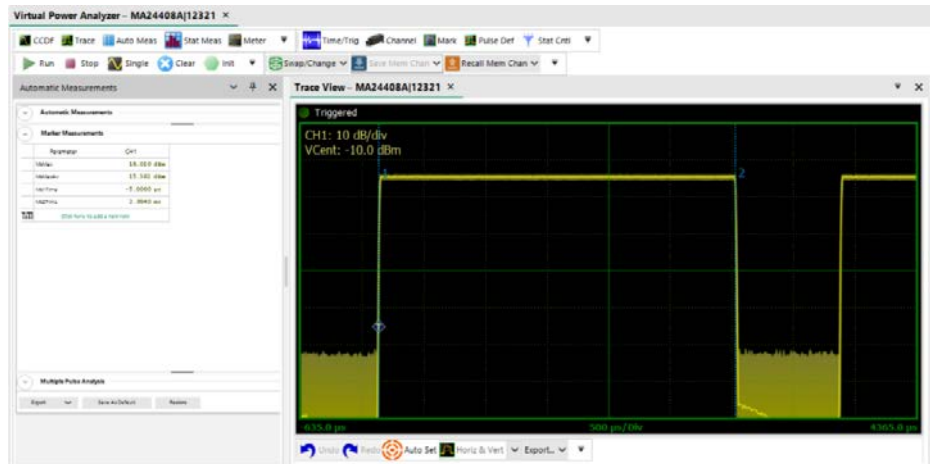
RF output power tolerance

BDR AFH

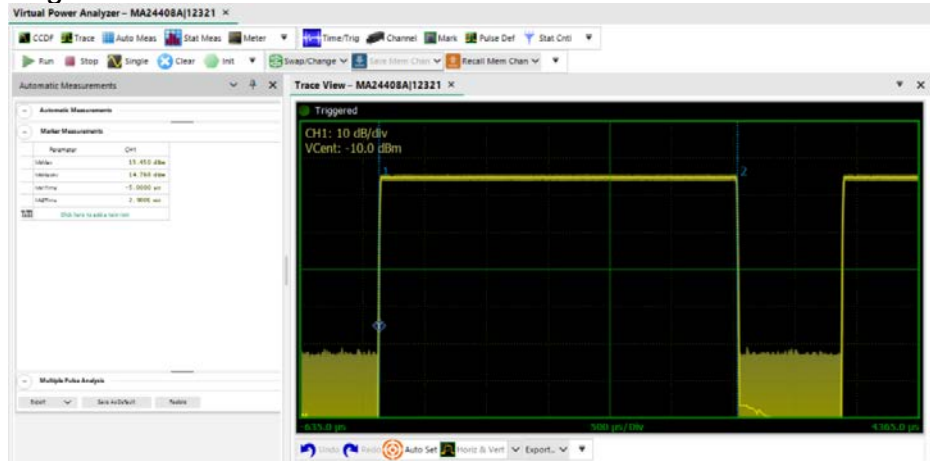
Low Channel



Middle Channel

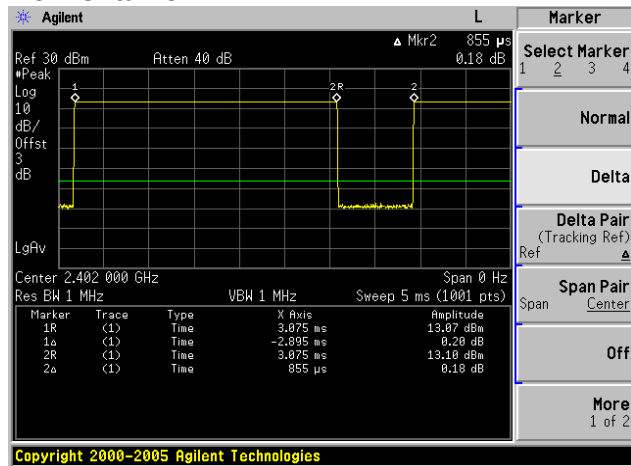


High Channel

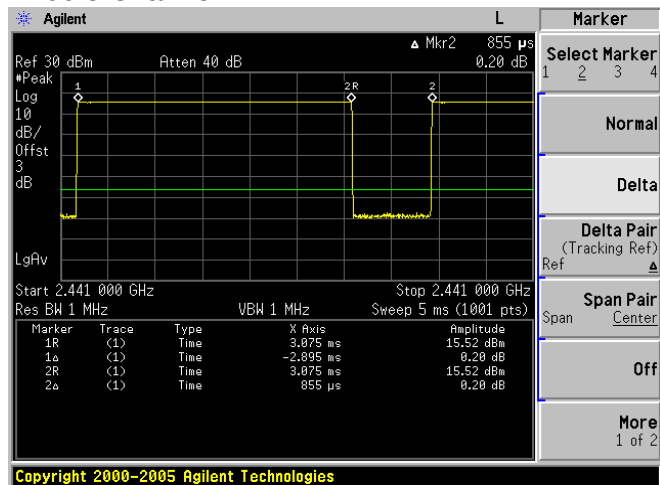


On Time / On + Off Time

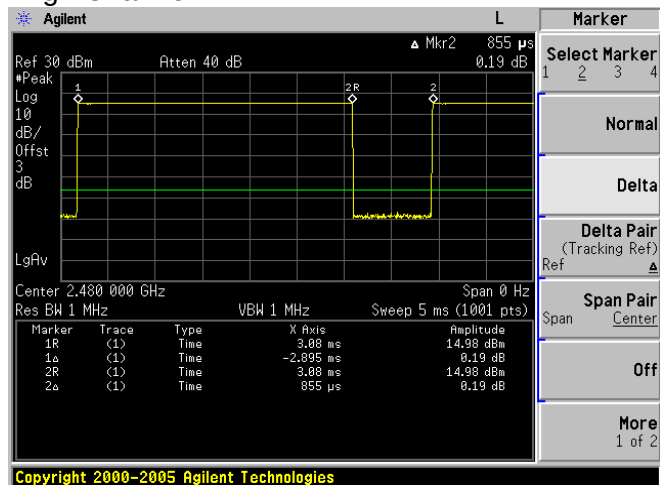
Low Channel



Middle Channel

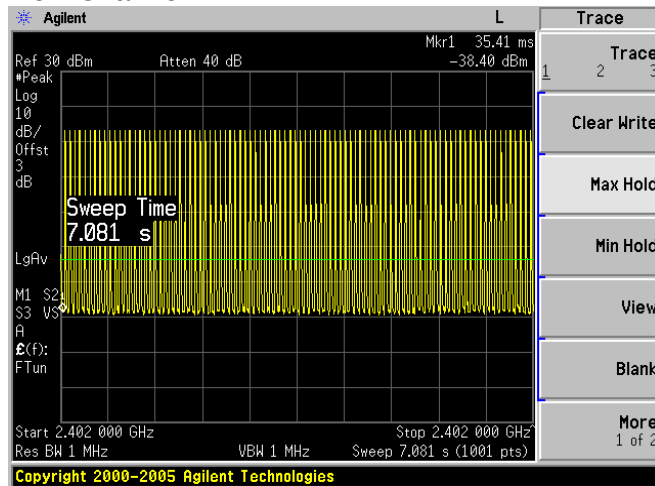


High Channel

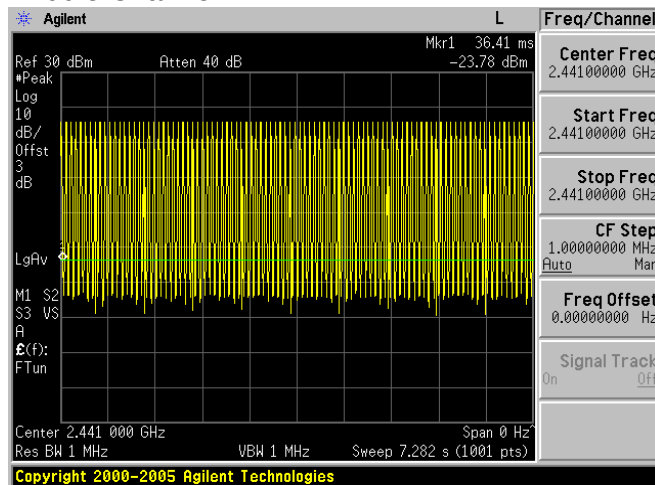


Sweep Time = (0.4 sec x Spread rate)

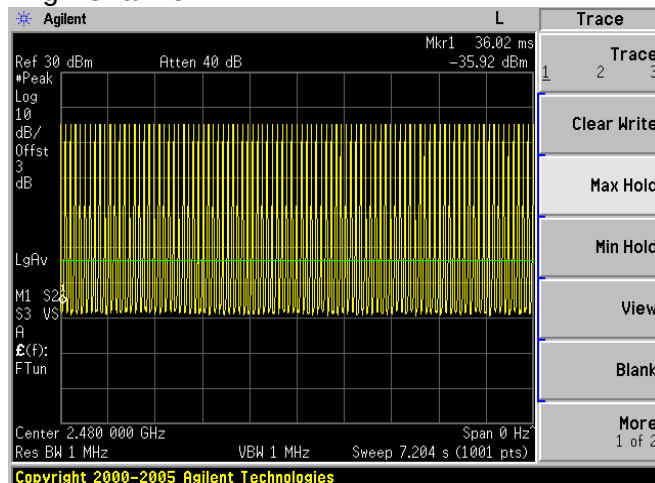
Low Channel



Middle Channel



High Channel

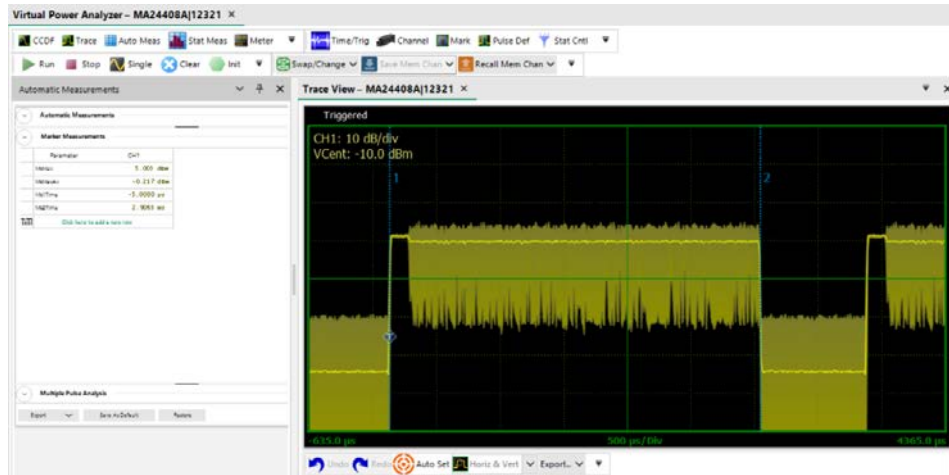


8.4 空中線電力の偏差

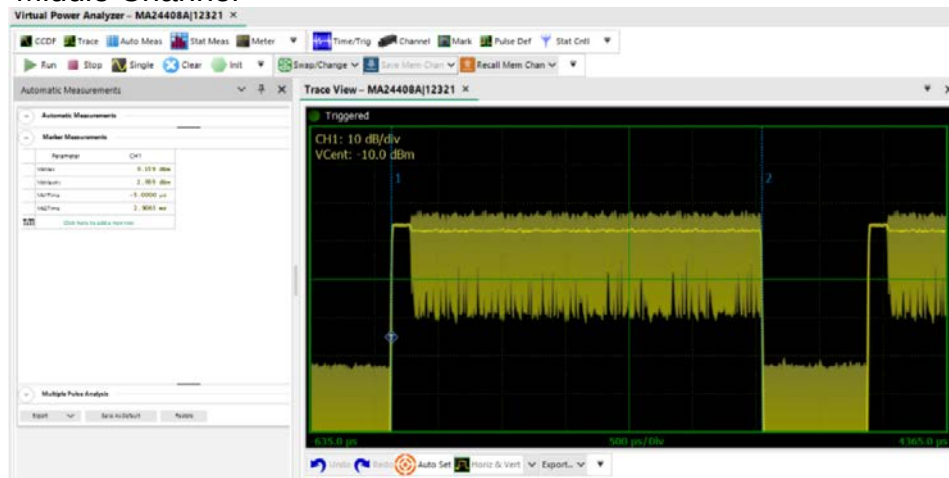
RF output power tolerance

EDR

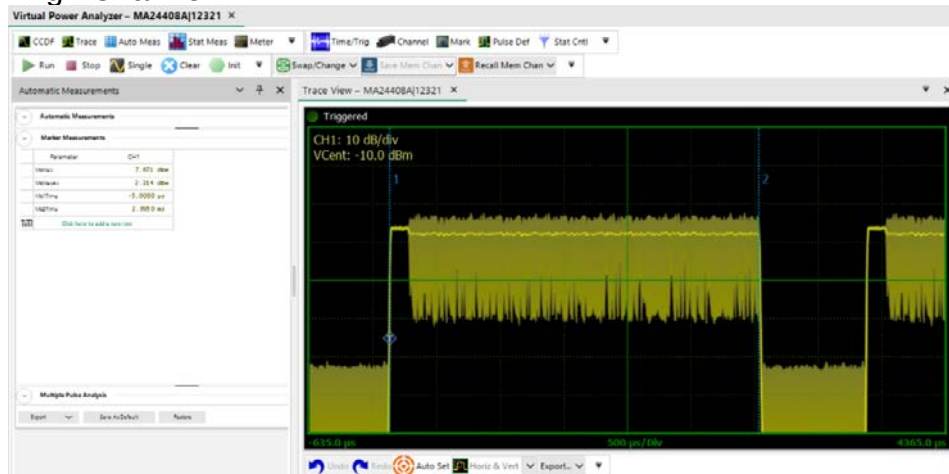
Low Channel



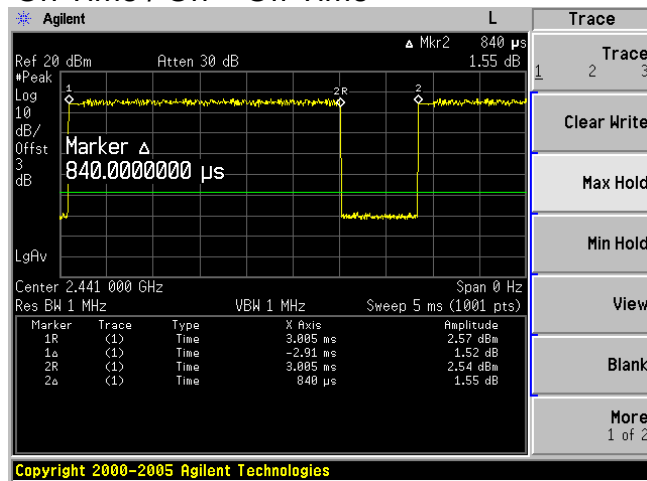
Middle Channel



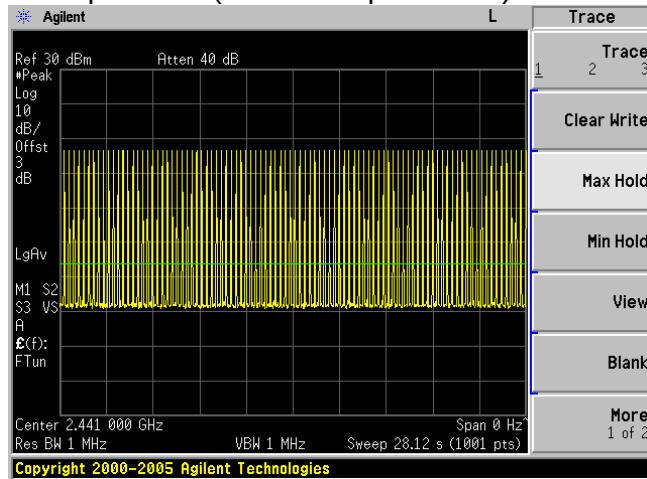
High Channel



On Time / On + Off Time



Sweep Time = (0.4 sec x Spread rate)

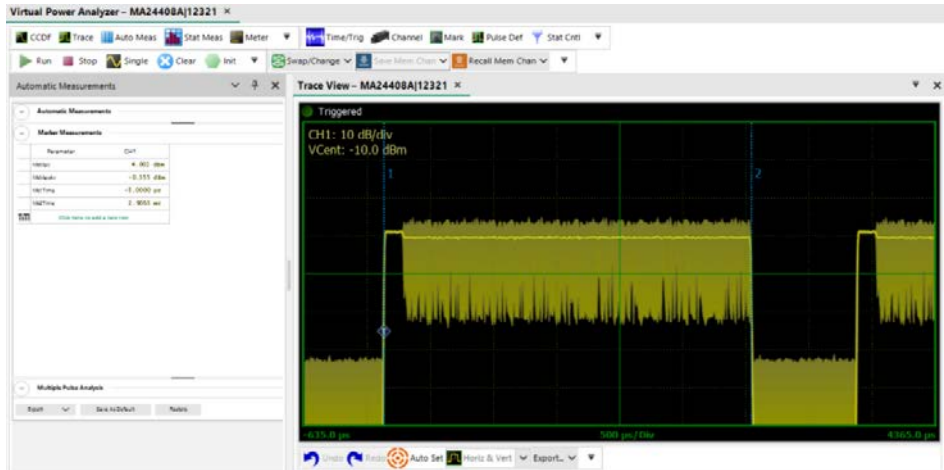


8.4 空中線電力の偏差

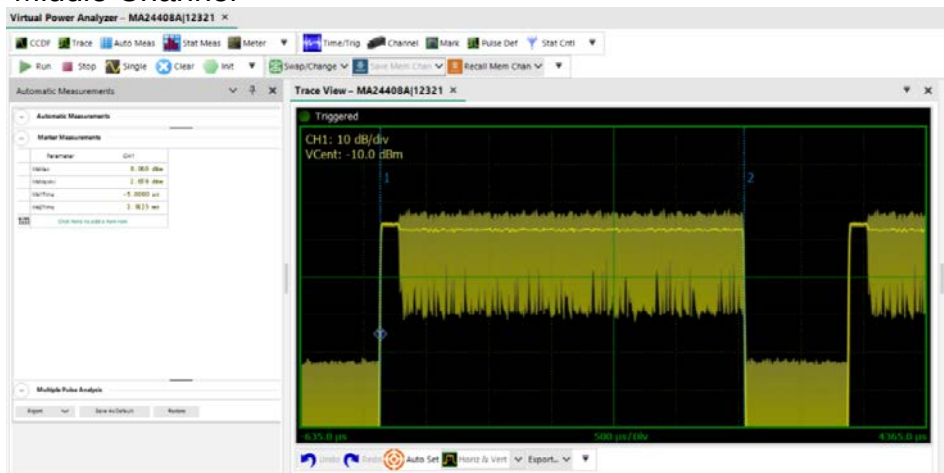
RF output power tolerance

EDR AFH

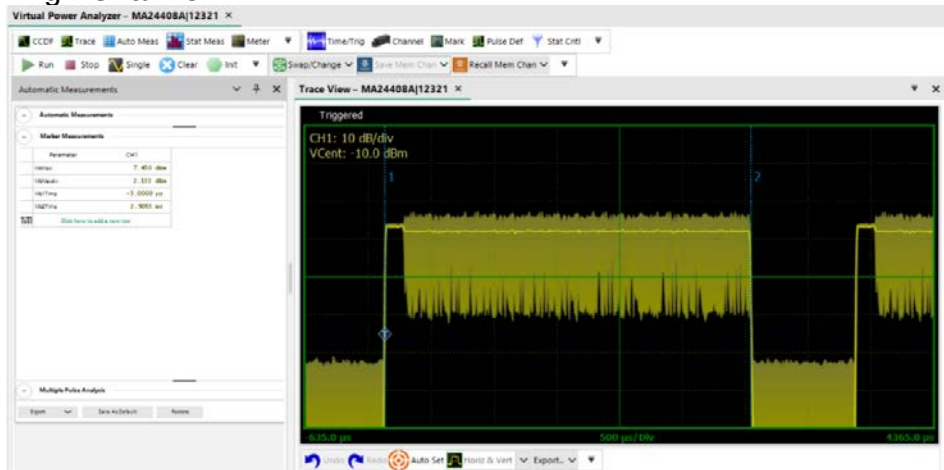
Low Channel



Middle Channel

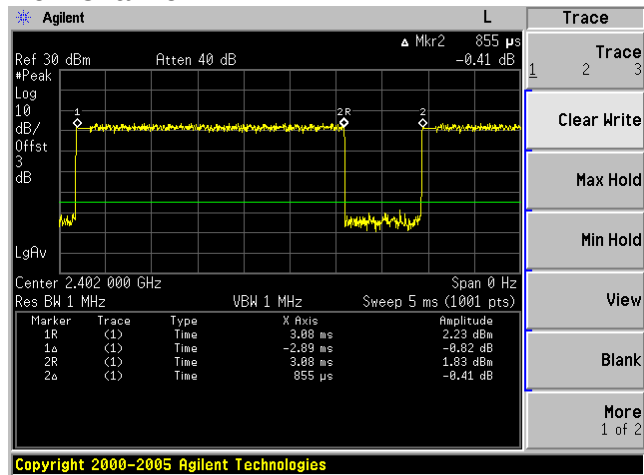


High Channel

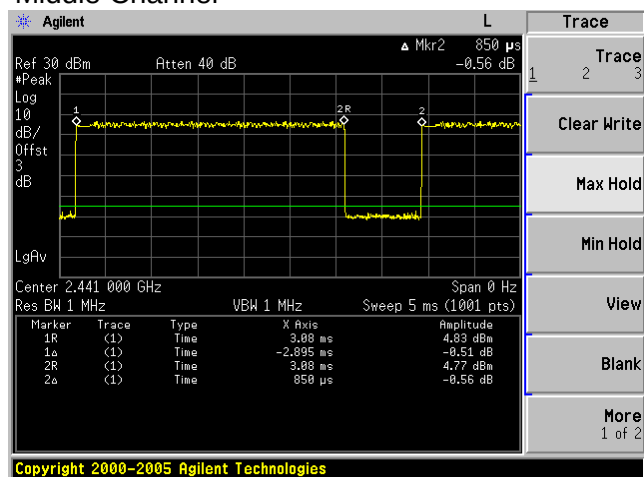


On Time / On + Off Time

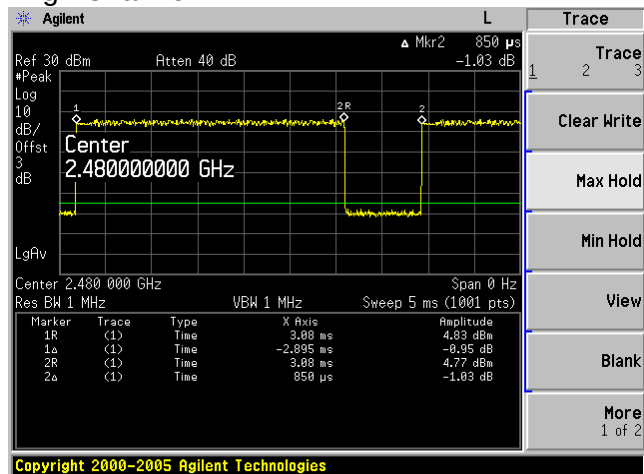
Low Channel



Middle Channel

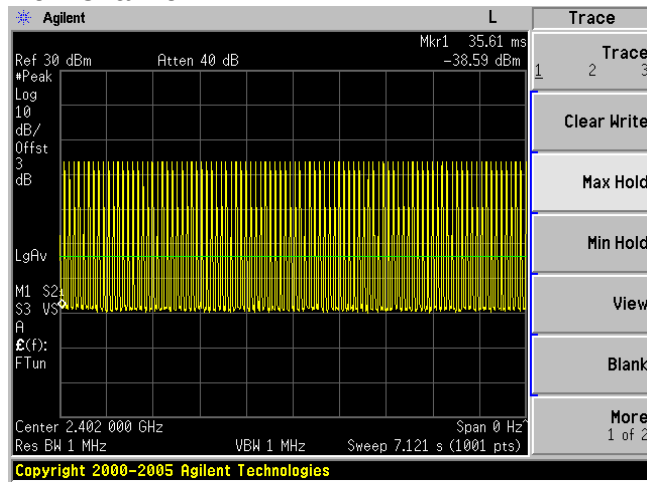


High Channel

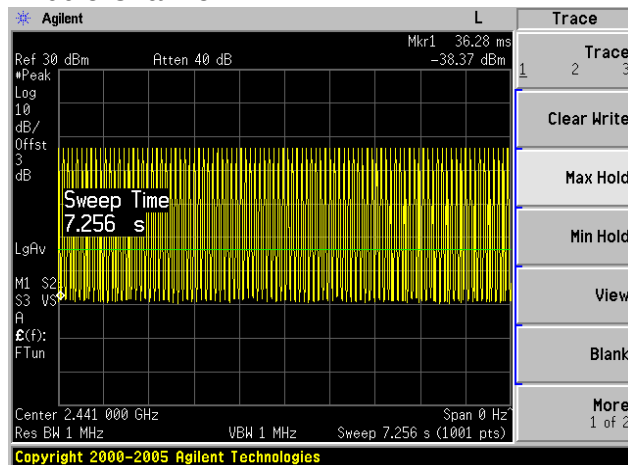


Sweep Time = (0.4 sec x Spread rate)

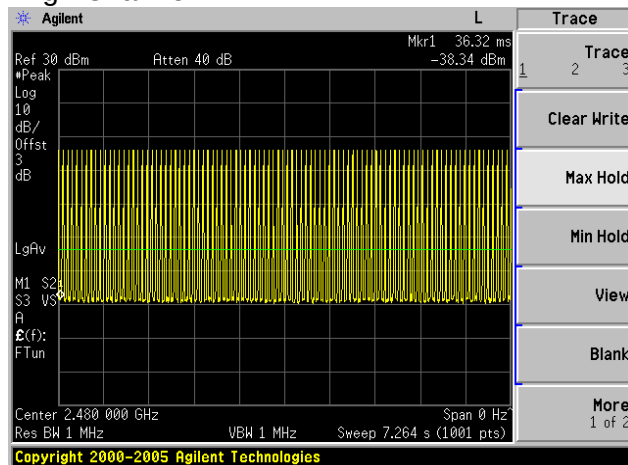
Low Channel



Middle Channel



High Channel

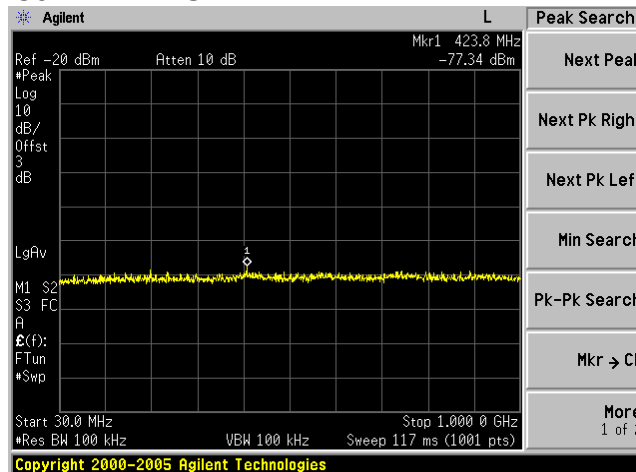


8.5 副次的に発する電波等の限度

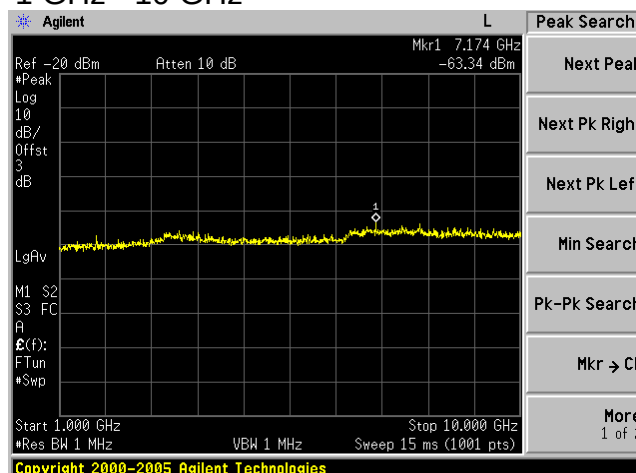
Secondary emitted radio wave strength

BDR

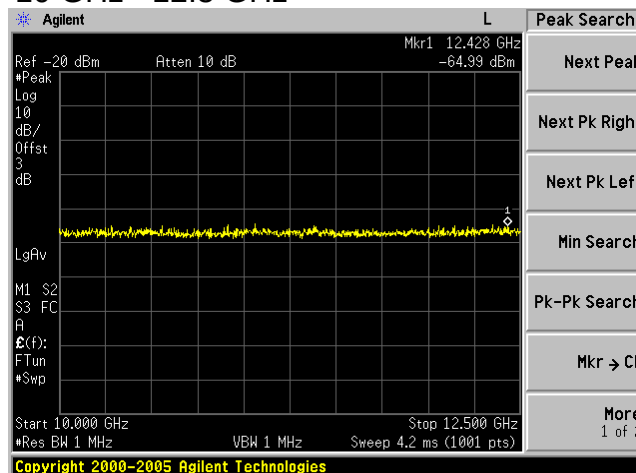
30 MHz - 1 GHz



1 GHz - 10 GHz



10 GHz - 12.5 GHz

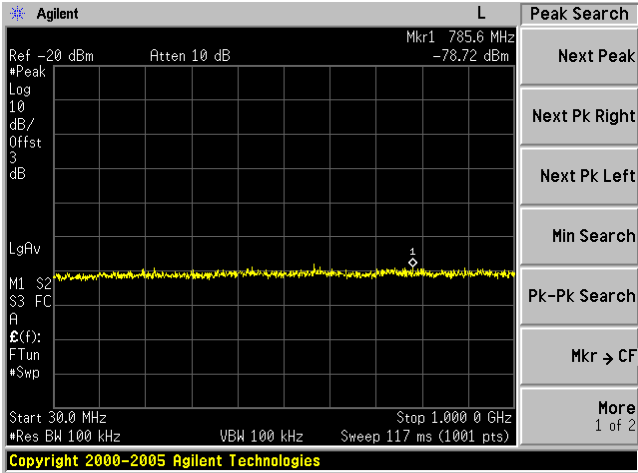


8.5 副次的に発する電波等の限度

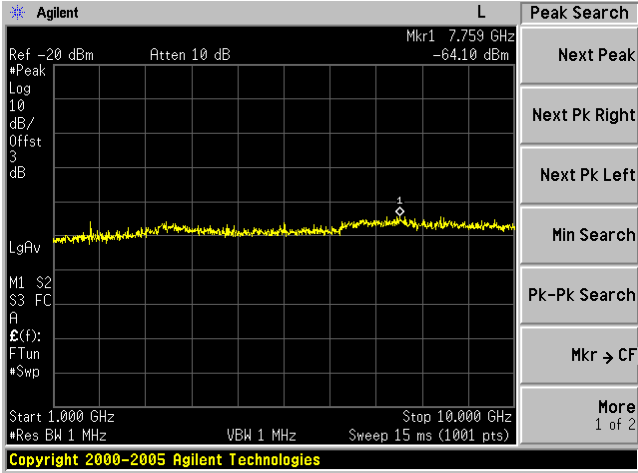
Secondary emitted radio wave strength

EDR

30 MHz - 1 GHz



1 GHz - 10 GHz



10 GHz - 12.5 GHz

