

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

DFS Measurement FOR

Product Name:	Notebook Device
Brand Name:	N/A
Model No.:	PCG-11311L
Model Different:	N/A
FCC ID:	AK8PCG11311L
IC:	409B-PCG11311L
Report No.:	EF/2011/70025
Issue Date:	Aug. 01, 2011
FCC Rule Part:	§15.407
IC Rule Part:	RSS-210 issue 8:2010, Annex 9
Prepared for:	SONY Corporation 5432 Toyoshina Azumino-shi, Nagano 399-8282 Japan
Prepared by:	SGS Taiwan Ltd. Electronics & Communication Laboratory No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei County, Taiwan.



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VERIFICATION OF COMPLIANCE

Applicant: SONY Corporation
5432 Toyoshina Azumino-shi, Nagano 399-8282 Japan

Product Name: Notebook Device

Brand Name: N/A

FCC ID: AK8PCG11311L

IC: 409B-PCG11311L

Model No.: PCG-11311L

Model Difference: N/A

File Number: EF/2011/70025

Date of test: Jul. 18, 2011 ~ Aug. 01, 2011

Date of EUT Received: Jul. 18, 2011

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2003) and the energy emitted by the sample EUT tested as described in this report is in compliance with DFS requirement under FCC Rules Part 15.407 /Memorandum Opinion and Order of FCC 06-96 and RSS-210 issue 8: 2010 Annex 9.

The test results of this report relate only to the tested sample identified in this report.

Test By:		Date:	Aug. 01, 2011
	<i>Lion Wang / Engineer</i>		
Prepared By:		Date:	Aug. 01, 2011
	<i>Cherry Chen / Clerk</i>		
Approved By:		Date:	Aug. 01, 2011
	<i>Jim Chang / Supervisor</i>		

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Version

Version No.	Date	Description
00	Aug. 01, 2011	Initial creation of document

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TABLE OF CONTENTS

PAGE

1.	DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)	5
2.	TPC AND DFS MEASUREMENT.....	6
2.1	TPC: STANDARD APPLICABLE	6
2.2	DFS: STANDARD APPLICABLE	6

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1. DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)

General:

Product name:	Notebook Device	
Brand Name:	N/A	
Model No.:	PCG-11311L	
Model Difference:	N/A	
Hardware Version:	DVT2	
Software Version:	google released image is 15.0.837.0 (Platform 823.0-11.07.29)	
Power Supply:	7.4Vdc from Li-ion battery or 10.5Vdc by AC/DC power adapter	
	Adapter:	Model: VGP-AC10V4, Supplier: SONY
	Battery:	Model: VGP-BPL19, Supplier: SONY

This test report applies for client device in order to be compliant with DFS regulation.

Note: The pertinent information with regards to the parameters of the detected Radar Waveforms is not available and accessible to the end user.

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2. TPC AND DFS MEASUREMENT

2.1 TPC: STANDARD APPLICABLE

According to §15.407(h)(1), Transmit power control (TPC). U-NII devices operating in the 5.25-5.35 GHz band and the 5.47-5.725 GHz band shall employ a TPC mechanism. The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm. A TPC mechanism is not required for systems with an e.i.r.p. of less than 500 mW.

14.1.1. Result: N/A, The output power is less than 500mW.

2.2 DFS: STANDARD APPLICABLE

According to §15.407(h)(2), Radar Detection Function of Dynamic Frequency Selection (DFS). U-NII devices operating in the 5.25-5.35 GHz and 5.47-5.725 GHz bands shall employ a DFS radar detection.

2.2.1.Limit

Table 1:Applicability of DFS requirements prior to use of a channel

Requirement	Operational Mode		
	Master	Client(without radar detection)	Client(with radar detection)
Non-occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
Uniform Spreading	Yes	Not required	Not required

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Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode		
	Master	Client(without radar detection)	Client(with radar detection)
Cannel Closing Transmission time	Yes	Yes	Yes
Channel Move time	Yes	Yes	Yes

Table 3: Interference Threshold values, Master or Client incorporating In-Service Monitoring

Maximum Transmit Power	Value (see note)
≥ 200 milliwatt	-64 dBm
< 200 milliwatt	-62 dBm

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna
 Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.

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Table 4: DFS Response requirement values

Parameter	Value
<i>Non-occupancy period</i>	Minimum 30 minutes
<i>Channel Availability Check Time</i>	60 seconds
<i>Channel Move Time</i>	10 seconds See Note 1.
<i>Channel Closing Transmission Time</i>	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
<i>U-NII Detection Bandwidth</i>	Minimum 80% of the 99% power bandwidth See Note 3.

Note 1: The instant that the *Channel Move Time* and the *Channel Closing Transmission Time* begins is as follows:

- For the Short pulse radar Test Signals this instant is the end of the *Burst*.
- For the Frequency Hopping radar Test Signal, this instant is the end of the last radar *Burst* generated.
- For the Long Pulse radar Test Signal this instant is the end of the 12 second period defining the radar transmission.

Note 2: The *Channel Closing Transmission Time* is comprised of 200 milliseconds starting at the beginning of the *Channel Move Time* plus any additional intermittent control signals required to facilitate *Channel* changes (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the *U-NII Detection Bandwidth* detection test, radar type 1 is used and for each frequency step the minimum percentage of detection is 90%. Measurements are performed with no data traffic.

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Table 5: Radar Test Waveforms
Short Pulse Radar

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Trials
1	1	1428	18	60%	30
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120

Long Pulse Radar

Radar Type	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Number of Pulses per Burst	Number of Bursts	Minimum Percentage of Successful Detection	Minimum Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

Frequency Hopping Radar

Radar Type	Pulse Width (μsec)	PRI (μsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage of Successful Detection	Minimum Trials
6	1	333	9	.333	300	70%	30

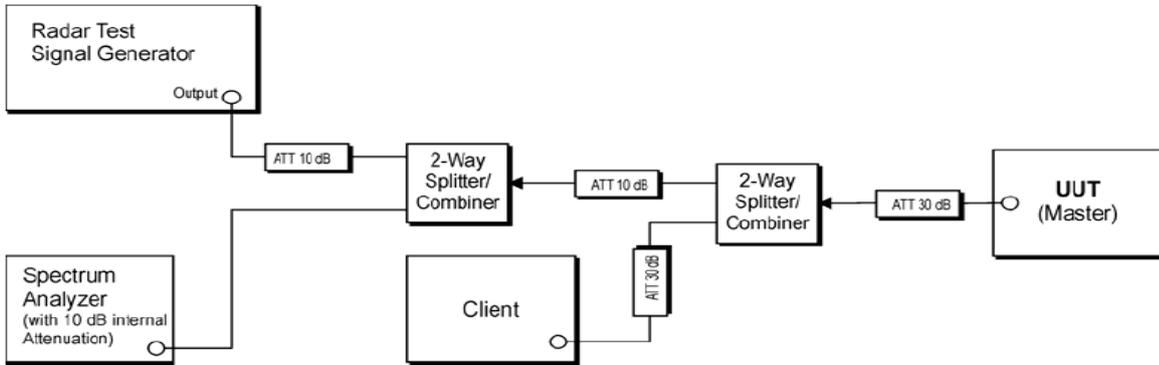
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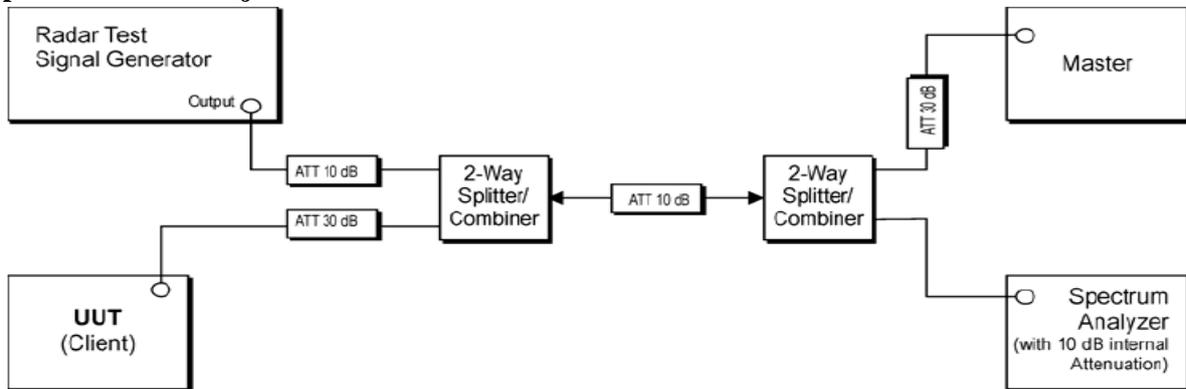
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2.2.2. Test Setup

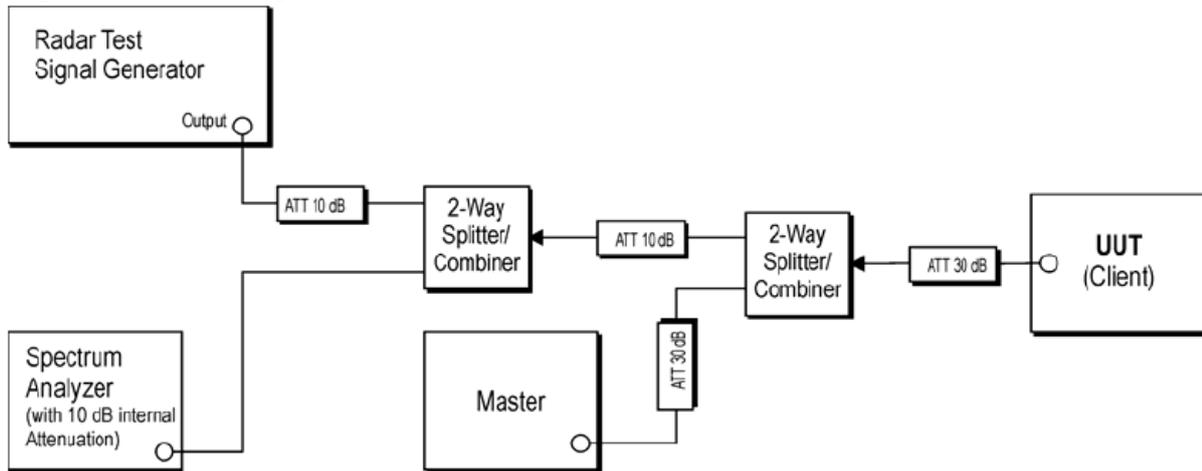
Setup for Master with injection at the Master



Setup for Client with injection at the Master



Setup for Client with injection at the Client



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2.2.3. Test Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/19/2010	04/18/2012
Spectrum Analyzer	Agilent	E4440A	MY45304525	01/25/2011	01/24/2012
DC Block	Agilent	BLK-18	155452	07/05/2011	07/04/2012
Attenuator	Mini-Circuit	BW-S6W5	001	01/05/2011	01/04/2012
Attenuator	Mini-Circuit	BW-S10W5	001	01/05/2011	01/04/2012
Attenuator	Mini-Circuit	BW-S20W5	001	01/05/2011	01/04/2012
Splitter	Mini-Circuit	ZFSC-2-10G	001	07/05/2011	07/04/2012
Splitter	Mini-Circuit	ZFSC-2-10G	002	07/05/2011	07/04/2012
Splitter	Agilent	POWER DIVIDER	51818	07/05/2011	07/04/2012
Splitter	Agilent	POWER DIVIDER	51820	07/05/2011	07/04/2012
Access point	CISCO	AIR-AP1252 G-A-K9	FTX122091Y2 FCC ID: LDK102062	N/A	N/A
ESG VECTOR SIGNAL GENERATOR	Agilent	E4438C	MY45093613	07/08/2011	07/07/2012

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2.2.4. Descriptioin of EUT :

EUT operates over the 5250-5350MHz and 5470-5725MHz ranges and EUT is a slave device (client equipment) w/o radar detection and DFS capability. EUT has a gain of 3dBi in the 5GHz Band.

The EUT utilizes the 802.11a architecture, with a nominal channel bandwidth of 20MHz WLAN traffic is generated by streaming the mpeg file from the master to slave in full monitor video mode using the media player.

The rated output power of the master unit is $>23\text{dBm}$ (EIRP).therefore the required interference threshold level is -64dBm .after correction for antenna gain and procedural adjustments, the required conducted threshold at the antenna port is $-64+6=-58$, and the master device as employed for the applicable DFS test is CISCO router whose FCC ID= LDK102061

2.2.5. Test results

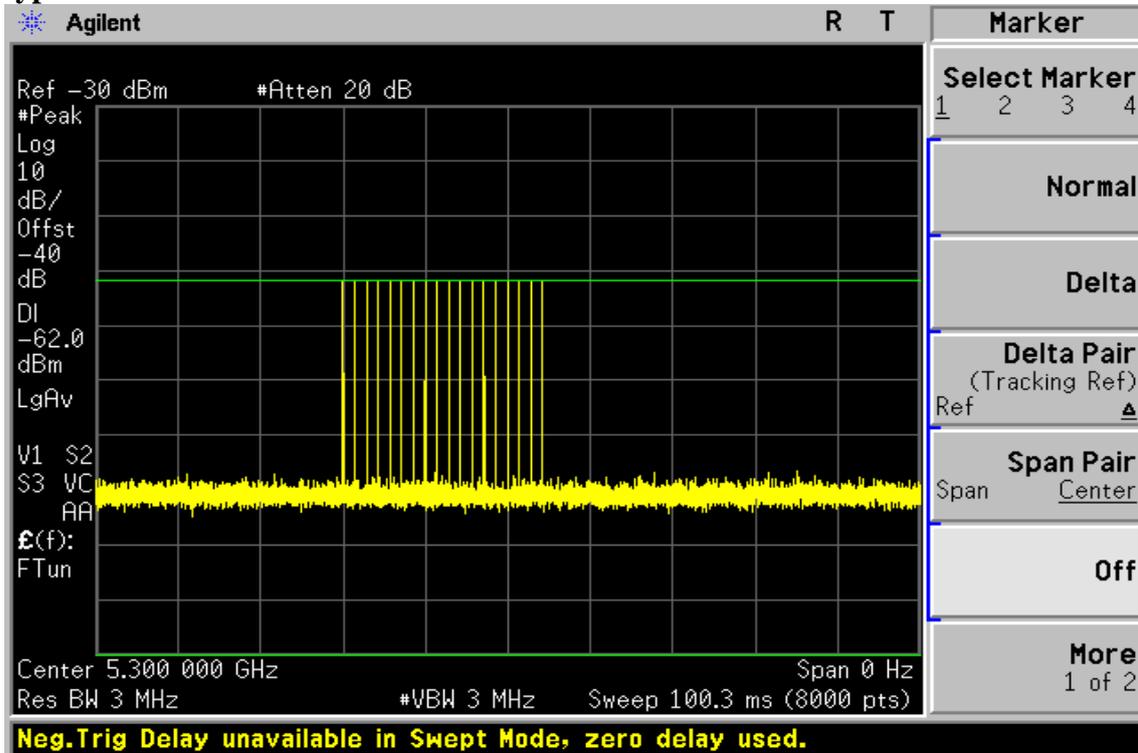
Refer to next page for plots.

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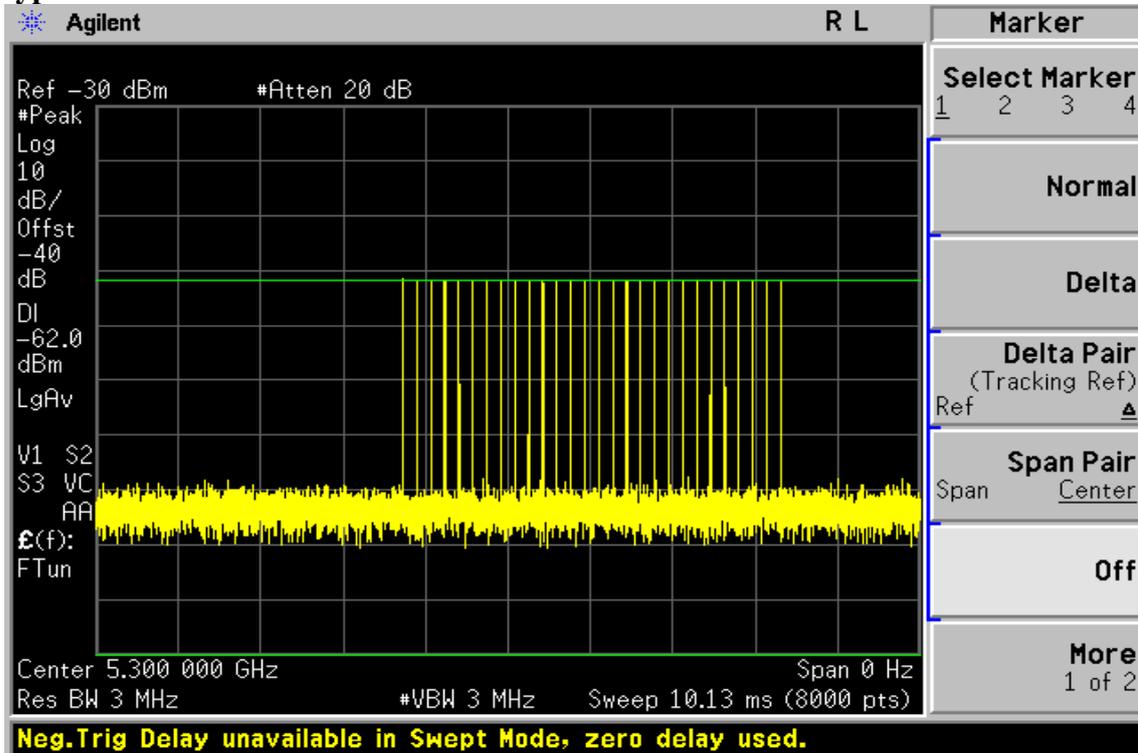
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Calibration plots for each of the required radar waveforms
Radar type 1



Radar type 2

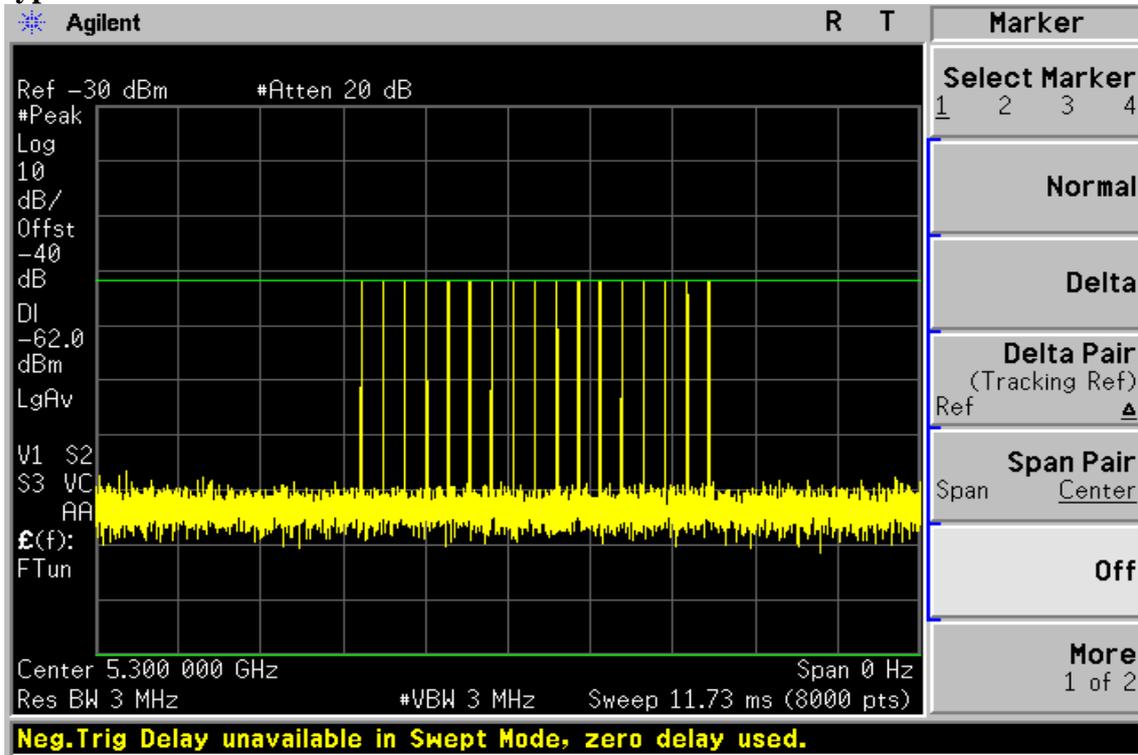


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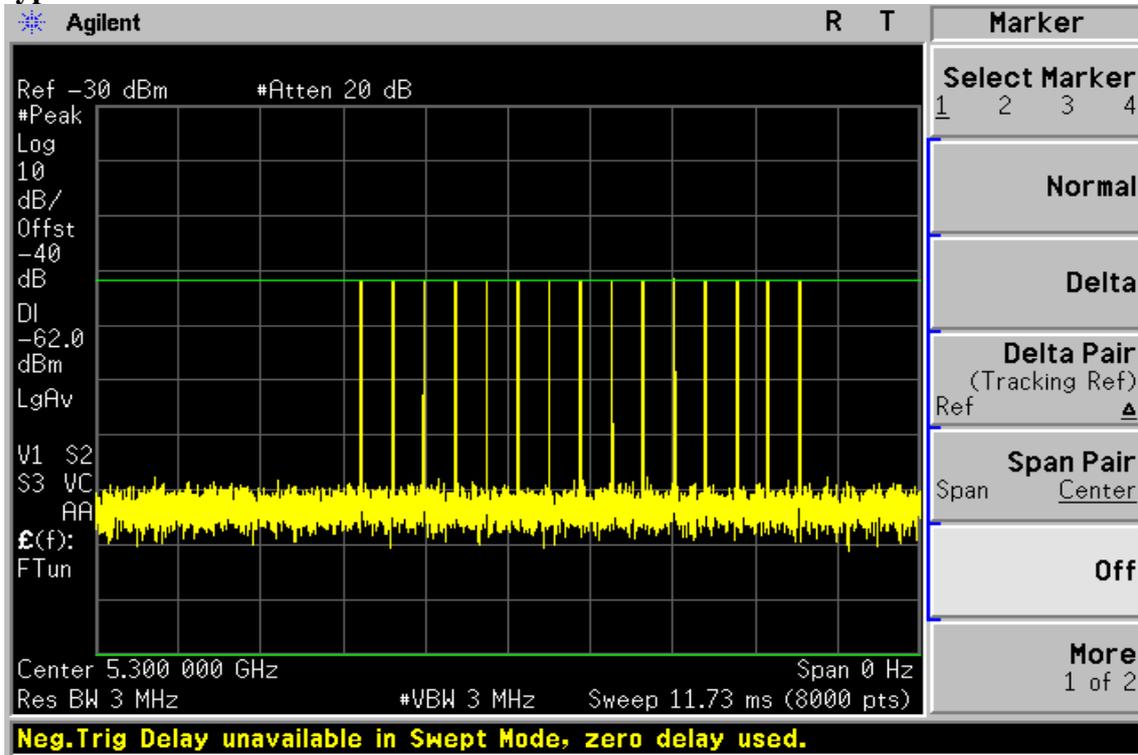
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Radar type 3



Radar type 4



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台灣檢驗科技股份有限公司

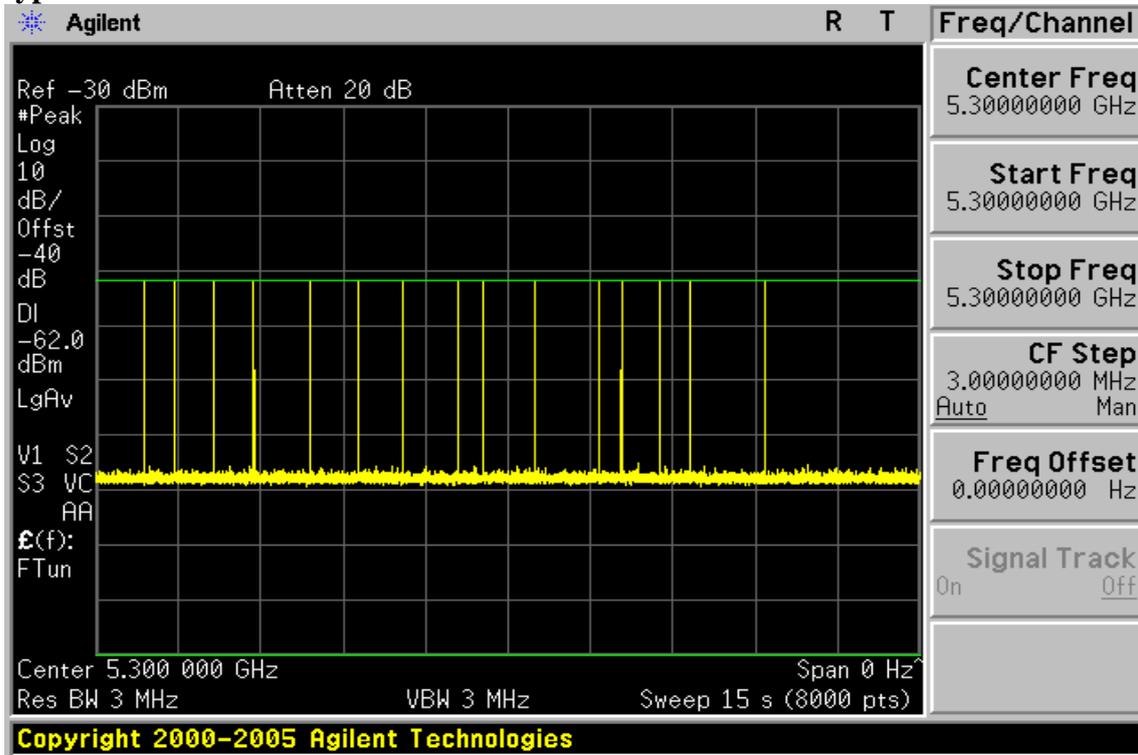
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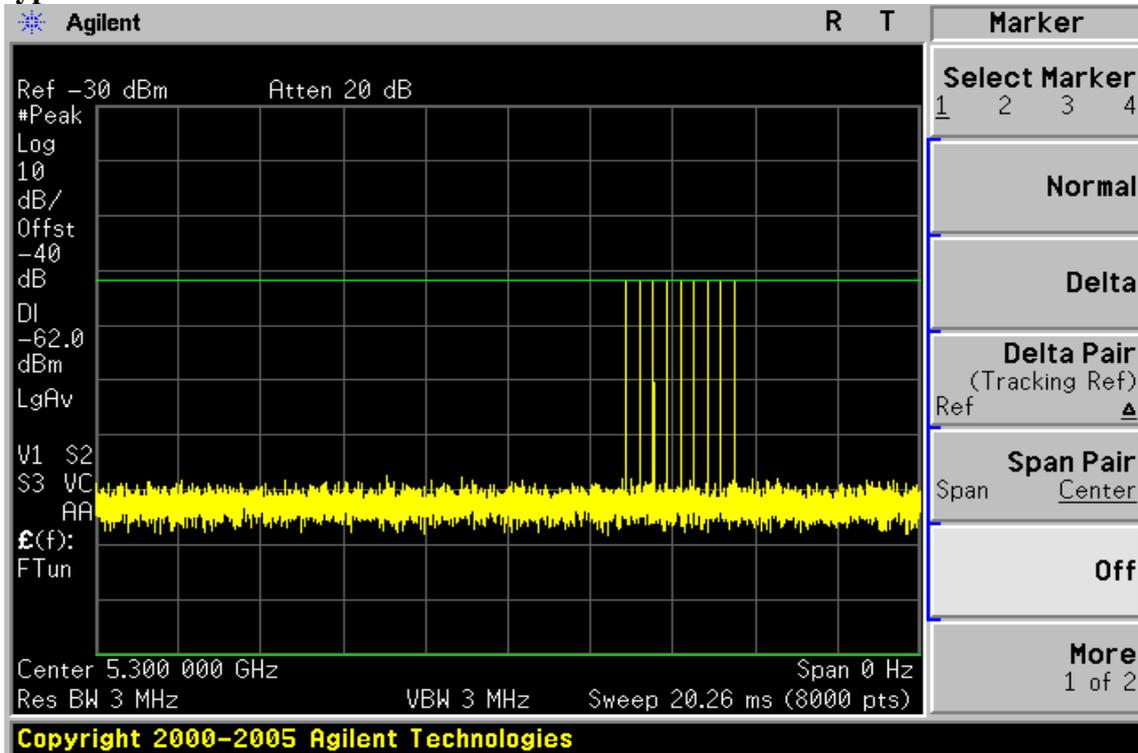
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Radar type 5



Radar type 6

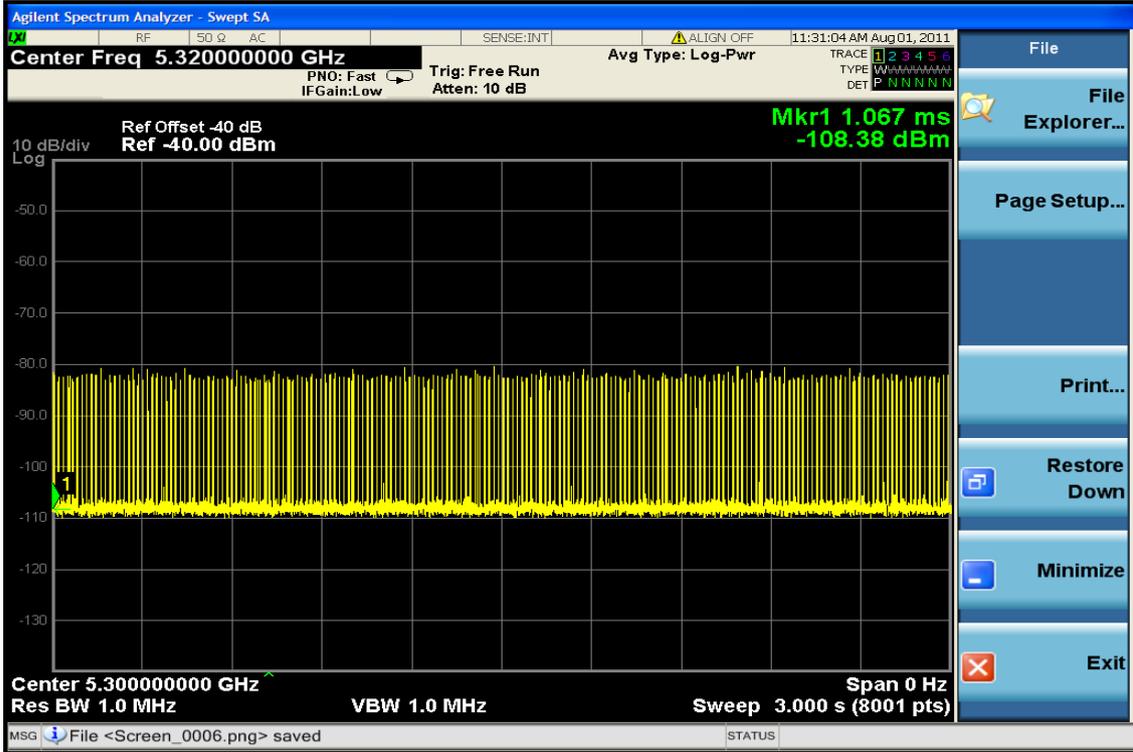


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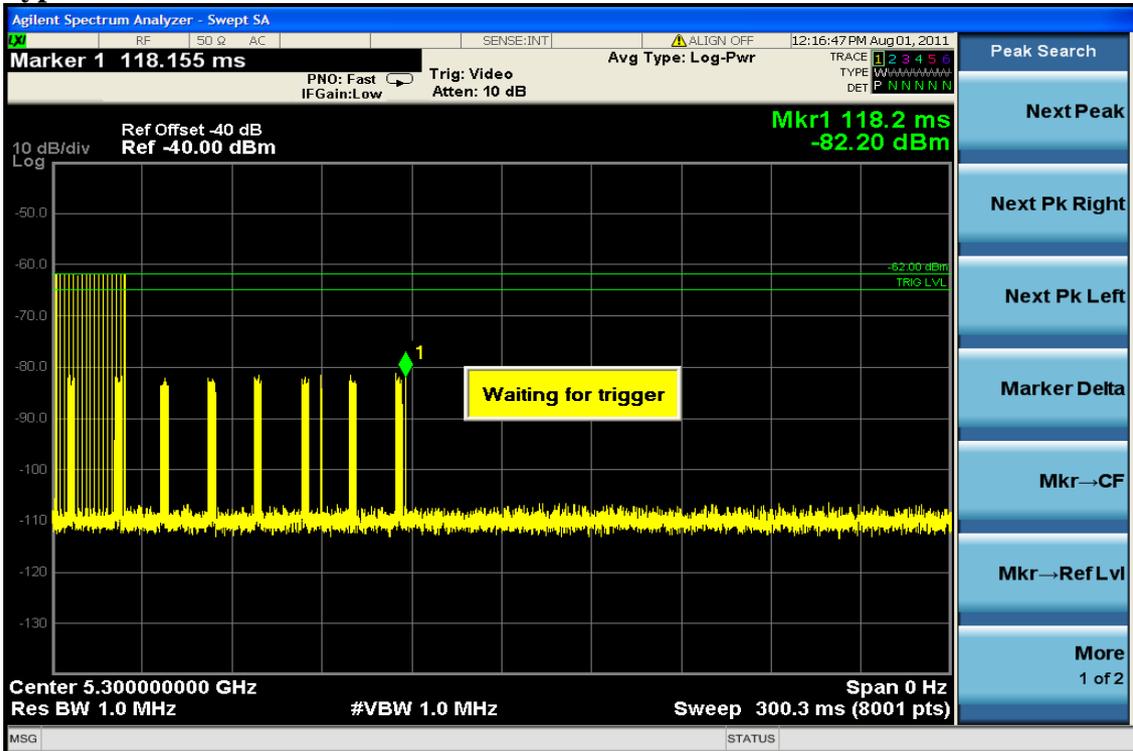
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WLAN traffic



Radar Type 1 Channel Move Time

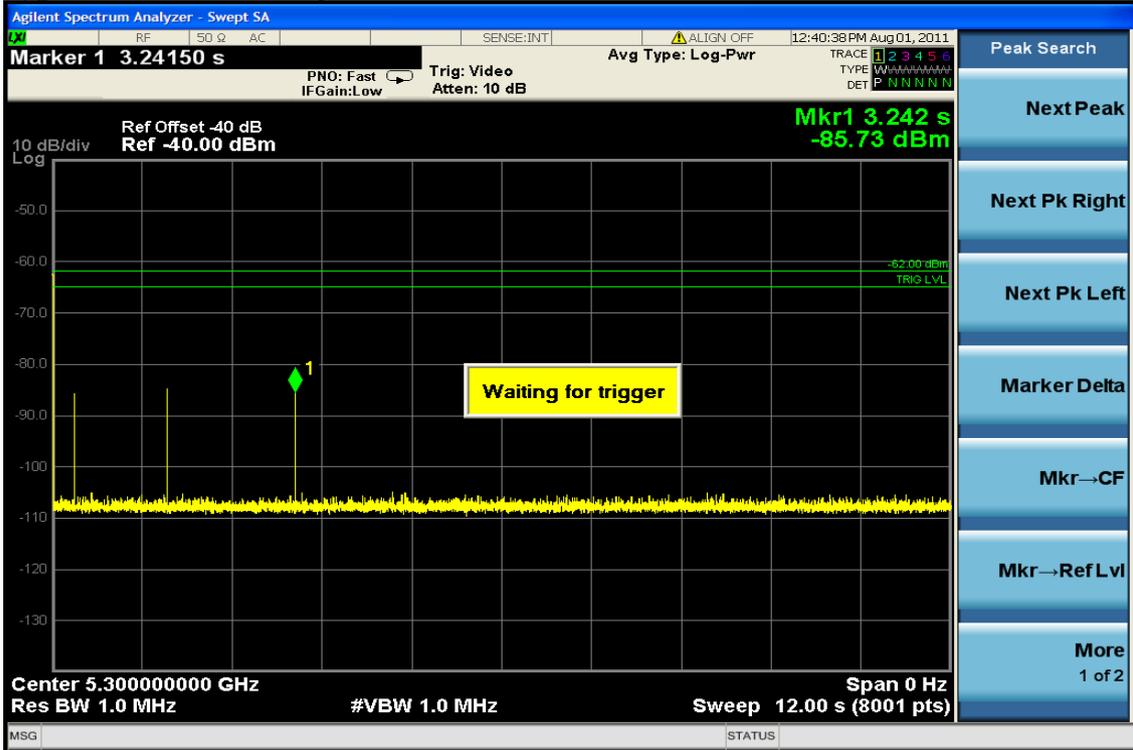


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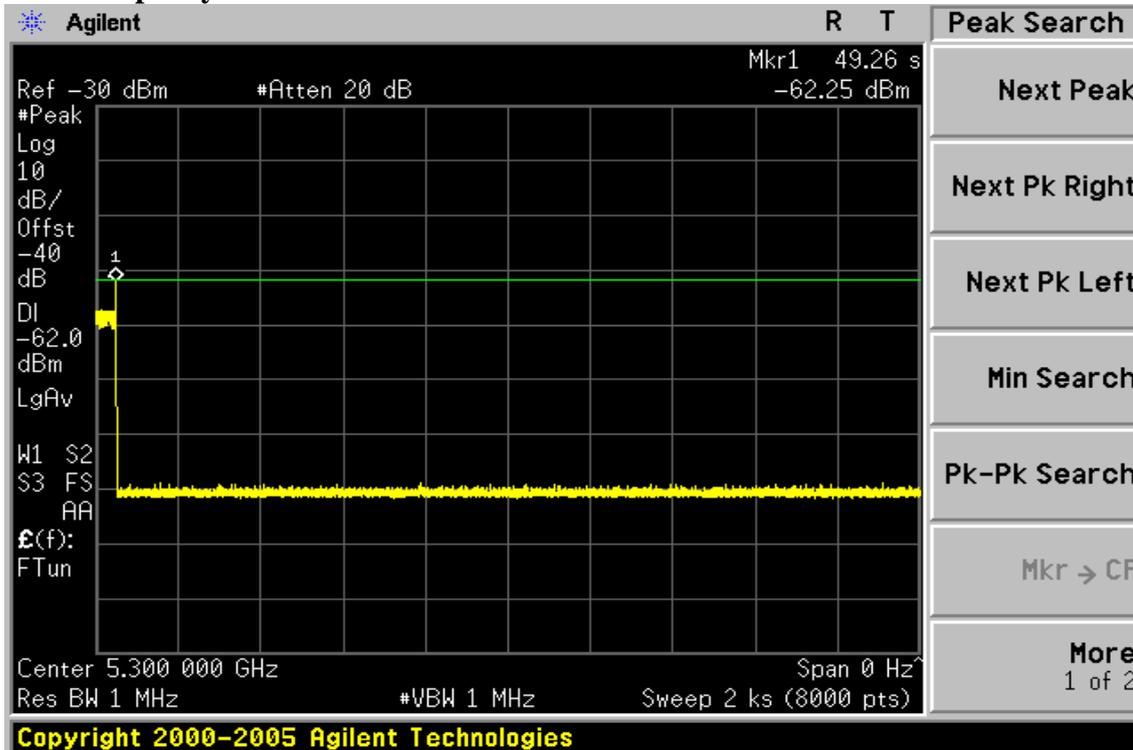
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Radar Type 1 Channel Closing Transmission Time



$0.03242\text{ms} * 3 = 0.09726\text{ms}$
Non-occupancy Period



~ End of Report ~

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