

FCC Carrier Aggregation REPORT

Certification

Applicant Name:

SAMSUNG Electronics Co., Ltd.

Date of Issue:

October 07, 2019

Address:

129, Samsung-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Rep. of Korea

Location:

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Icheon-si, Gyeonggi-do, 17383, Rep. of KOREA

Report No.: HCT-RF-1909-FC030-R1

FCC ID:

A3LSMW767U

APPLICANT:

SAMSUNG Electronics Co., Ltd.

Model(s): SM-W767V, SM-W767P, SM-W767A, SM-W767W, SM-W767U
EUT Type: Note PC
FCC Classification: PCS Licensed Transmitter (PCB)
FCC Rule Part(s): §27, §2

The measurements shown in this report were made in accordance with the procedures specified in CFR47 section §2.947. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them.

HCT CO., LTD. Certifies that no party to this application has subject to a denial of Federal benefits that includes FCC benefits pursuant to section 5301 of the Anti-Drug Abuse Act of 1998,21 U.S. C.853(a)



Report prepared by : Kwon Jeong
Engineer of Telecommunication Testing Center



Report approved by : Jong Seok Lee
Manager of Telecommunication Testing Center

This report only responds to the tested sample and may not be reproduced, except in full, without written approval of the HCT Co., Ltd.

Version

TEST REPORT NO.	DATE	DESCRIPTION
HCT-RF-1909-FC030	September 30, 2019	- First Approval Report
HCT-RF-1909-FC030-R1	October 07, 2019	- Removed the Ant+ on page 5.

The result shown in this test report refer only to the sample(s) tested unless otherwise stated.

This laboratory is not accredited for the test results marked *.

The above Test Report is the accredited test result by KOLAS(Korea Laboratory Accreditation Scheme), which signed the ILAC-MRA.(HCT Accreditation No.: KT197)

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MEASUREMENT REPORT

1. GENERAL INFORMATION

Applicant Name:	SAMSUNG Electronics Co., Ltd.
Address:	129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea
FCC ID:	A3LSMW767U
Application Type:	Certification
FCC Classification:	PCS Licensed Transmitter (PCB)
FCC Rule Part(s):	§27, §2
EUT Type:	Note PC
Model(s):	SM-W767V, SM-W767P, SM-W767A, SM-W767W, SM-W767U
Tx Frequency:	2499.3 - 2680.0: 5MHz+20MHz 2501.3 - 2682.5: 10MHz+15MHz 2501.5 - 2680.0: 10MHz+20MHz 2503.5 - 2684.7: 15MHz+10MHz 2503.5 - 2682.5: 15MHz+15MHz 2503.8 - 2680.0: 15MHz+20MHz 2506.0 - 2686.7: 20MHz+5MHz 2506.0 - 2684.5: 20MHz+10MHz 2506.0 - 2682.2: 20MHz+15MHz 2506.0 - 2680.0: 20MHz+20MHz
Date(s) of Tests:	August 30, 2019 ~ September 30, 2019
LTE CA :	CA 41C(Uplink)

2. INTRODUCTION

2.1. DESCRIPTION OF EUT

The EUT was a Note PC with UMTS and LTE.

It also supports IEEE 802.11 a/b/g/n/ac (HT20/40/80), Bluetooth, BT LE.

2.2. MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

2.3. TEST FACILITY

The Fully-anechoic chamber and conducted measurement facility used to collect the radiated data are located at the **74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383, Rep. of KOREA.**

3. DESCRIPTION OF TESTS

3.1 TEST PROCEDURE

Test Description	Test Procedure Used
Occupied Bandwidth	- KDB 971168 D01 v03r01 – Section 4.3 - ANSI C63.26-2015 – Section 5.4.4
Channel Edge	- KDB 971168 D01 v03r01 – Section 6.0 - ANSI C63.26-2015 – Section 5.7
Spurious and Harmonic Emissions at Antenna Terminal	- KDB 971168 D01 v03r01 – Section 6.0 - ANSI C63.26-2015 – Section 5.7
Conducted Output Power	- N/A (See SAR Report)
Peak- to- Average Ratio	- KDB 971168 D01 v03r01 – Section 5.7 - ANSI C63.26-2015 – Section 5.2.3.4 - ANSI C63.26-2015 – Section 5.2.6(only GSM)
Frequency stability	- ANSI C63.26-2015 – Section 5.6
Effective Isotropic Radiated Power	- KDB 971168 D01 v03r01 – Section 5.2 & 5.8 - ANSI/TIA-603-E-2016 – Section 2.2.17
Radiated Spurious and Harmonic Emissions	- KDB 971168 D01 v03r01 – Section 6.2 - ANSI/TIA-603-E-2016 – Section 2.2.12

3.2 RADIATED POWER

Test Overview

Radiated tests are performed in the Fully-anechoic chamber.

The equipment under test is placed on a non-conductive table 3-meters away from the receive antenna in accordance with ANSI/TIA-603-E-2016 Clause 2.2.17.

Test Settings

1. Radiated power measurements are performed using the signal analyzer's "channel power" measurement capability for signals with continuous operation.
2. RBW = 1 – 5% of the expected OBW, not to exceed 1MHz
3. VBW $\geq 3 \times$ RBW
4. Span = 1.5 times the OBW
5. No. of sweep points $> 2 \times$ span / RBW
6. Detector = RMS
7. Trigger is set to "free run" for signals with continuous operation with the sweep times set to "auto".
8. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation.
9. Trace mode = trace averaging (RMS) over 100 sweeps.
10. The trace was allowed to stabilize.

Test Note

1. The turntable is rotated through 360 degrees, and the receiving antenna scans in order to determine the level of the maximized emission.
2. A half wave dipole is then substituted in place of the EUT. For emissions above 1GHz, a horn antenna is substituted in place of the EUT. The substitute antenna is driven by a signal generator and the previously recorded signal was duplicated.

The power is calculated by the following formula;

$$P_{d(\text{dBm})} = P_{g(\text{dBm})} - \text{cable loss (dB)} + \text{antenna gain (dB)}$$

Where: P_d is the dipole equivalent power and P_g is the generator output power into the substitution antenna.

3. The maximum value is calculated by adding the forward power to the calibrated source plus its appropriate gain value. These steps are repeated with the receiving antenna in both vertical and horizontal polarization. the difference between the gain of the horn and an isotropic antenna are taken into consideration
4. The EUT was tested in three orthogonal planes(X, Y, Z) and in all possible test configurations and positioning.
5. All measurements are performed as RMS average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

3.3 RADIATED SPURIOUS EMISSIONS

Test Overview

Radiated tests are performed in the Fully-anechoic chamber.

Radiated Spurious Emission Measurements at 3 meters by Substitution Method according to ANSI/TIA-603-E-2016.

Test Settings

1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
2. VBW $\geq 3 \times$ RBW
3. Span = 1.5 times the OBW
4. No. of sweep points $> 2 \times$ span / RBW
5. Detector = Peak
6. Trace mode = Max Hold
7. The trace was allowed to stabilize
8. Test channel : Low/ Middle/ High
9. Frequency range : We are performed all frequency to 10th harmonics from 9 kHz.

Test Note

1. Measurements value show only up to 3 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
2. The EUT was tested in three orthogonal planes(X, Y, Z) and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the test dat
3. For spurious emissions above 1GHz, a horn antenna is substituted in place of the EUT. The substitute antenna is driven by a signal generator and the previously recorded signal was duplicated.

The spurious emissions is calculated by the following formula;

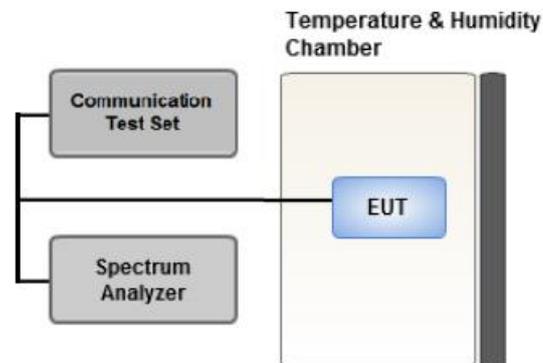
$$\text{Result}_{(\text{dBm})} = P_{g(\text{dBm})} - \text{cable loss}_{(\text{dB})} + \text{antenna gain}_{(\text{dBi})}$$

Where: P_g is the generator output power into the substitution antenna.

If the fundalmatal frequency is below 1GHz, RF output power has been converted to EIRP.

$$\text{EIRP}_{(\text{dBm})} = \text{ERP}_{(\text{dBm})} + 2.15$$

3.4 OCCUPIED BANDWIDTH.



Test setup

The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission.

The EUT makes a call to the communication simulator.

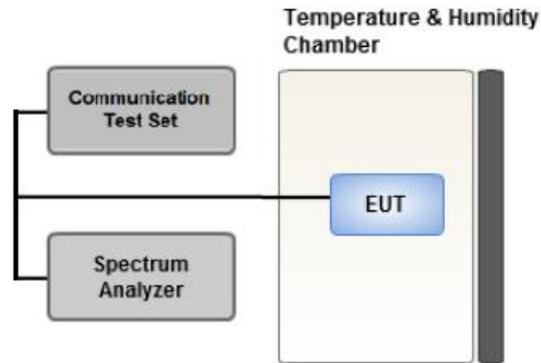
The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth

Test Settings

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 1 – 5% of the expected OBW
3. VBW $\geq 3 \times$ RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize
8. If necessary, steps 2 – 7 were repeated after changing the RBW such that it would be within 1 – 5% of the 99% occupied bandwidth observed in Step 7

3.5 SPURIOUS AND HARMONIC EMISSIONS AT ANTENNA TERMINAL



Test setup

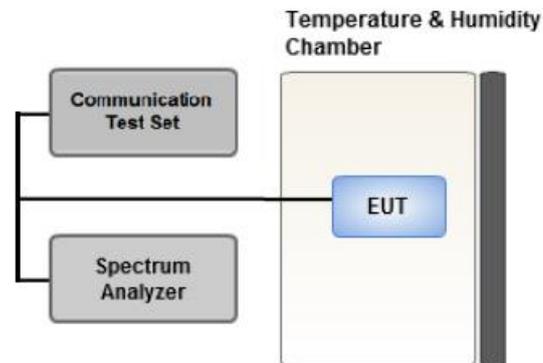
Test Overview

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

Test Settings

1. RBW = 1 MHz
2. VBW \geq 3 MHz
3. Detector = Peak
4. Trace Mode = max hold
5. Sweep time = auto
6. Number of points in sweep \geq 2 * Span / RBW

3.6 CHANNEL EDGE



Test setup

Test Overview

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

Test Settings

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. Within 1MHz of the channel edge the RBW should be 2% of EBW, then 1 MHz after that.
4. VBW > 3 x RBW
5. Detector = RMS
6. Number of sweep points $\geq 2 \times \text{Span}/\text{RBW}$
7. Trace mode = trace average
8. Sweep time = auto couple
9. The trace was allowed to stabilize

Test Notes

1. The attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge,
2. $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge.
3. $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge.
4. The attenuation factor shall not be less that $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz.
5. $55 + 10 \log (P)$ dB at or below 2490.5 MHz.
6. X is the greater of 6MHz or the actual emission bandwidth
7. The band edge measurement used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer

4. LIST OF TEST EQUIPMENT

Manufacture	Model/ Equipment	Serial Number	Calibration Date	Calibrati on Interval	Calibration Due
T&M SYSTEM	FBSR-02B(WHK1.2/15G-10EF)/H.P.F	-	06/10/2019	Annual	06/10/2020
T&M SYSTEM	FBSR-02B(WHK3.3/18G-10EF)/H.P.F	-	06/10/2019	Annual	06/10/2020
Hewlett Packard	11667B / Power Splitter(DC~26.5 GHz)	11275	05/03/2019	Annual	05/03/2020
Agilent	E3632A/DC Power Supply	MY40004326	07/01/2019	Annual	07/01/2020
Schwarzbeck	UHAP/ Dipole Antenna	557	03/29/2019	Biennial	03/29/2021
Schwarzbeck	UHAP/ Dipole Antenna	558	03/29/2019	Biennial	03/29/2021
ESPEC	SU-642 / Chamber	93000717	08/14/2019	Annual	08/14/2020
Schwarzbeck	BBHA 9120D/ Horn Antenna(1~18GHz)	147	08/29/2019	Biennial	08/29/2021
Schwarzbeck	BBHA 9120D/ Horn Antenna(1~18GHz)	9120D-1298	10/04/2018	Annual	10/04/2019
Schwarzbeck	BBHA 9170/ Horn Antenna(15~40GHz)	BBHA9170342	04/29/2019	Biennial	04/29/2021
Schwarzbeck	BBHA 9170/ Horn Antenna(15~40GHz)	BBHA9170124	01/28/2019	Biennial	01/28/2021
Agilent	N9020A/Signal Analyzer(10Hz~26.5GHz)	MY51110063	05/08/2019	Annual	05/08/2020
Hewlett Packard	8493C/ATTENUATOR(20dB)	17280	06/04/2019	Annual	06/04/2020
REOHDE & SCHWARZ	FSV40/Spectrum Analyzer(10Hz~40GHz)	100931	10/22/2018	Annual	10/22/2019
Schwarzbeck	FMZB1513/ Loop Antenna(9kHz~30MHz)	1513-175	08/23/2018	Biennial	08/23/2020
Schwarzbeck	VULB9160/ Bilog Antenna	9160-3368	08/09/2018	Biennial	08/09/2020
Schwarzbeck	VULB9160/ Hybrid Antenna	760	03/22/2019	Biennial	03/22/2021
Anritsu Corp.	MT8821C/Wideband Radio Communication Tester	6201502997	08/09/2019	Annual	08/09/2020
Anritsu Corp.	MT8820C/Wideband Radio Communication Tester	6201026545	01/30/2019	Annual	01/30/2020
REOHDE & SCHWARZ	SMB100A/ SIGNAL GENERATOR (100kHz~40GHz)	177633	07/15/2019	Annual	07/15/2020
REOHDE & SCHWARZ	ESU40 / EMI TEST RECEIVER	100524	05/17/2019	Annual	05/17/2020
HCT CO., LTD.,	FCC LTE Mobile Conducted RF Automation Test Software	-	-	-	-

Note:

1. Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.
2. Especially, all antenna for measurement is calibrated in accordance with the requirements of C63.5 (Version : 2017).

5. MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.4:2014. All measurement uncertainty values are shown with a coverage factor of $k = 2$ to indicate a 95 % level of confidence. The measurement data shown herein meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Parameter	Expanded Uncertainty (\pm dB)
Conducted Disturbance (150 kHz ~ 30 MHz)	1.82
Radiated Disturbance (9 kHz ~ 30 MHz)	3.40
Radiated Disturbance (30 MHz ~ 1 GHz)	4.80
Radiated Disturbance (1 GHz ~ 18 GHz)	5.70
Radiated Disturbance (18 GHz ~ 40 GHz)	5.05

6. SUMMARY OF TEST RESULTS

6.1 Test Condition : Conducted Test

Test Description	FCC Part Section(s)	Test Limit	Test Result
Occupied Bandwidth	§2.1049	N/A	PASS
Band Edge / Spurious and Harmonic Emissions at Antenna Terminal.	§2.1051, §27.53(m)(4)	<ul style="list-style-type: none"> ■ $< 40 + 10\log_{10} (P[\text{Watts}])$ at Channel edges ■ $< 43 + 10\log_{10} (P[\text{Watts}])$ between 5 and X MHz from Channel edges ■ $< 55 + 10\log_{10} (P[\text{Watts}])$ beyond X MHz beyond from Channel edges ■ $< 43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz 	PASS
Conducted Output Power	§2.1046	N/A	<u>See Note1</u>
Frequency stability / variation of ambient temperature	§2.1055, §27.54	Emission must remain in band	PASS

Note:

1. See SAR Report
2. The same samples were used for SAR and EMC

6.2 Test Condition : Radiated Test

Test Description	FCC Part Section(s)	Test Limit	Test Result
Equivalent Isotropic Radiated Power	§27.50(h)(2)	< 2 Watts max. EIRP	PASS
Radiated Spurious and Harmonic Emissions	§2.1053, §27.53(m)(4)	$< 55 + 10\log_{10} (P[\text{Watts}])$	PASS

7. SAMPLE CALCULATION

7.1 ERP Sample Calculation

Ch./ Freq.		Measured Level(dBm)	Substitute Level(dBm)	Ant. Gain (dBd)	C.L	Pol.	ERP	
channel	Freq.(MHz)						W	dBm
128	824.20	-21.37	38.40	-10.61	0.95	H	0.483	26.84

ERP = Substitute LEVEL(dBm) + Ant. Gain – CL(Cable Loss)

- 1) The EUT mounted on a non-conductive turntable is 2.5 meter above test site ground level.
- 2) During the test , the turn table is rotated until the maximum signal is found.
- 3) Record the field strength meter’s level.
- 4) Replace the EUT with dipole/Horn antenna that is connected to a calibrated signal generator.
- 5) Increase the signal generator output till the field strength meter’s level is equal to the item (3).
- 6) The signal generator output level with Ant. Gain and cable loss are the rating of effective radiated power.

7.2 EIRP Sample Calculation

Ch./ Freq.		Measured Level(dBm)	Substitute Level(dBm)	Ant. Gain (dBi)	C.L	Pol.	EIRP	
channel	Freq.(MHz)						W	dBm
20175	1,732.50	-15.75	18.45	9.90	1.76	H	0.456	26.59

EIRP = Substitute LEVEL(dBm) + Ant. Gain – CL(Cable Loss)

- 1) The EUT mounted on a non-conductive turntable is 2.5 meter above test site ground level.
- 2) During the test , the turn table is rotated until the maximum signal is found.
- 3) Record the field strength meter’s level.
- 4) Replace the EUT with dipole/Horn antenna that is connected to a calibrated signal generator.
- 5) Increase the signal generator output till the field strength meter’s level is equal to the item (3).
- 6) The signal generator output level with Ant. Gain and cable loss are the rating of equivalent isotropic radiated power.

7.3. Emission Designator

GSM Emission Designator

Emission Designator = 249KGXW

GSM BW = 249 kHz

G = Phase Modulation

X = Cases not otherwise covered

W = Combination (Audio/Data)

EDGE Emission Designator

Emission Designator = 249KG7W

GSM BW = 249 kHz

G = Phase Modulation

7 = Quantized/Digital Info

W = Combination (Audio/Data)

WCDMA Emission Designator

Emission Designator = 4M17F9W

WCDMA BW = 4.17 MHz

F = Frequency Modulation

9 = Composite Digital Info

W = Combination (Audio/Data)

QPSK Modulation

Emission Designator = 4M48G7D

LTE BW = 4.48 MHz

G = Phase Modulation

7 = Quantized/Digital Info

D = Data transmission; telemetry; telecommand

16QAM Modulation

Emission Designator = 4M48W7D

LTE BW = 4.48 MHz

W = Amplitude/Angle Modulated

7 = Quantized/Digital Info

D = Data transmission; telemetry; telecommand

64QAM Modulation

Emission Designator = 4M48W7D

LTE BW = 4.48 MHz

W = Amplitude/Angle Modulated

7 = Quantized/Digital Info

D = Data transmission; telemetry; telecommand

8. TEST DATA

Test Overview

The EUT is set up to transmit two contiguous LTE channels. The power level of both carriers and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

Test Note

1. All tests were evaluated for the two contiguous channels using various combinations of RB size, RB offset, modulation, and channel bandwidth.
2. Channel bandwidth is shown in the tables below based only on the channel bandwidths that were supported in this device.

Channel Bandwidth (PCC)	Channel Bandwidth (SCC)	Maximum aggregated bandwidth (MHz)
10	20	40
15	15, 20	40
20	10, 15, 20	40
5, 10	20	40
15	15, 20	40
20	5, 10, 15, 20	40
10	15, 20	40
15	10, 15, 20	40
20	10, 15, 20	40
10	20	40
20	20	40

3. All modes of operation were investigated and the worst case configuration results are reported in this section.

Please refer to the table below.

- Worst case(Conducted Spurious Emissions, Channel Edge)
: We have selected higher of the Conduction Output Power.
- Worst case(Radiated Spurious Emissions) : We have selected higher of the EIRP.
- Worst case(OBW, PAR, Frequency stability)
: All modes of operation were investigated and the worst case configuration results are reported.

[Worst case]

Test Description	Mod	Operating frequency	PCC					SCC				
			BW (MHz)	Freq. (MHz)	Ch.	RB	RB Offset	BW (MHz)	Freq. (MHz)	Ch.	RB	RB Offset
Conducted Spurious Emissions/ Channel Edge	QPSK	Low	20	2506	39750	1		5	2517.7	39867	1	0
	QPSK	Mid	20	2590.5	40595	1	99	5	2602.2	40712	1	0
	QPSK	High	20	2675	41440	1	99	5	2686.7	41557	1	0
	QPSK	Low	20	2506	39750	1	99	5	2517.7	39867	1	24
	QPSK	Mid	20	2590.5	40595	1	0	5	2602.2	40712	1	24
	QPSK	High	20	2675	41440	1	0	5	2686.7	41557	1	24
	QPSK	Low	20	2506	39750	100	0	10	2520.4	39894	50	0
	QPSK	Mid	20	2588.1	40571	100	99	10	2602.5	40715	50	0
	QPSK	High	20	2670.1	41391	100	99	10	2684.5	41535	50	0
	QPSK	Low	20	2506	39750	100	99	20	2525.8	39948	100	0
	QPSK	Mid	20	2583.1	40521	100	0	20	2602.9	40719	100	0
	QPSK	High	20	2660.2	41292	100	0	20	2680	41490	100	0
Radiated Spurious Emissions	QPSK	Low	20	2506.0	39750	1	99	5	2525.8	39867	1	0
	QPSK	Mid	10	2585.9	40549	1	49	15	2578.0	40669	1	0
	QPSK	High	20	2660.2	41292	1	99	20	2675.8	41490	1	0

[Worst case]

Test Description	Mod	Operating frequency	PCC					SCC				
			BW (MHz)	Freq. (MHz)	Ch.	RB	RB Offset	BW (MHz)	Freq. (MHz)	Ch.	RB	RB Offset
OBW, PAR	QPSK, 16QAM, 64QAM	Mid	5	2583.8	40528	25	0	20	2595.5	40645	100	0
			10	2585.9	40549	50	0	15	2597.9	40669	75	0
			10	2583.6	40526	50	0	20	2598	40670	100	0
			15	2588.1	40571	75	0	10	2600.1	40691	50	0
			15	2585.5	40545	75	0	15	2600.5	40695	75	0
			15	2583.3	40523	75	0	20	2600.4	40694	100	0
			20	2590.5	40595	100	0	5	2602.2	40712	25	0
			20	2588.1	40571	100	0	10	2602.5	40715	50	0
			20	2585.6	40546	100	0	15	2602.7	40717	75	0
			20	2583.1	40521	100	0	20	2602.9	40719	100	0
Frequency stability	QPSK	Low	5	2499.3	39683	100	0	20	2511	39800	25	0
			10	2501.5	39705	100	0	20	2515.9	39849	50	0
			15	2503.8	39728	75	0	20	2520.9	39899	75	0
			20	2506.0	39750	50	0	20	2525.8	39948	100	0
		High	5	2668.3	41373	100	0	20	2680	41490	25	0
			10	2665.6	41346	100	0	20	2680	41490	50	0
			15	2662.9	41219	75	0	20	2680	41490	75	0
			20	2660.2	41292	50	0	20	2680	41490	100	0

8.1 Conducted Power

Operating frequency	PCC					SCC					Conducted. Power [dBm]
	Bandwidth [MHz]	Freq. (MHz)	Channel	RB	RB Offset	Bandwidth [MHz]	Freq. (MHz)	Channel	RB	RB Offset	
Low	5	2499.3	39683	1	24	20	2511	39800	1	0	23.66
	10	2501.3	39703	1	49	15	2513.3	39823	1	0	23.34
	10	2501.5	39705	1	49	20	2515.9	39849	1	0	23.37
	15	2503.5	39725	1	74	10	2515.5	39845	1	0	23.45
	15	2503.5	39725	1	74	15	2518.5	39875	1	0	23.68
	15	2503.8	39728	1	74	20	2520.9	39899	1	0	23.43
	20	2506	39750	1	99	5	2517.7	39867	1	0	23.70
	20	2506	39750	1	99	10	2520.4	39894	1	0	23.40
	20	2506	39750	1	99	15	2523.1	39921	1	0	23.66
	20	2506	39750	1	99	20	2525.8	39948	1	0	23.67
Mid	5	2583.8	40528	1	24	20	2595.5	40645	1	0	23.60
	10	2585.9	40549	1	49	15	2597.9	40669	1	0	23.49
	10	2583.6	40526	1	49	20	2598	40670	1	0	23.50
	15	2588.1	40571	1	74	10	2600.1	40691	1	0	23.63
	15	2585.5	40545	1	74	15	2600.5	40695	1	0	23.65
	15	2583.3	40523	1	74	20	2600.4	40694	1	0	23.61
	20	2590.5	40595	1	99	5	2602.2	40712	1	0	23.66
	20	2588.1	40571	1	99	10	2602.5	40715	1	0	23.50
	20	2585.6	40546	1	99	15	2602.7	40717	1	0	23.42
	20	2583.1	40521	1	99	20	2602.9	40719	1	0	23.64
High	5	2668.3	41373	1	24	20	2680	41490	1	0	23.53
	10	2670.5	41395	1	49	15	2682.5	41515	1	0	23.16
	10	2665.6	41346	1	49	20	2680	41490	1	0	23.07
	15	2672.7	41417	1	74	10	2684.7	41537	1	0	23.33
	15	2667.5	41365	1	74	15	2682.5	41515	1	0	23.24
	15	2662.9	41319	1	74	20	2680	41490	1	0	23.55
	20	2675	41440	1	99	5	2686.7	41557	1	0	23.56
	20	2670.1	41391	1	99	10	2684.5	41535	1	0	23.35
	20	2665.1	41341	1	99	15	2682.2	41512	1	0	23.54
	20	2660.2	41292	1	99	20	2680	41490	1	0	23.54

Note:

Modulation : QPSK(1RB)

Operating frequency	PCC					SCC					Conducted. Power [dBm]
	Bandwidth [MHz]	Freq. (MHz)	Channel	RB	RB Offset	Bandwidth [MHz]	Freq. (MHz)	Channel	RB	RB Offset	
Low	5	2499.3	39683	25	0	20	2511	39800	100	0	22.56
	10	2501.3	39703	50	0	15	2513.3	39823	75	0	22.57
	10	2501.5	39705	50	0	20	2515.9	39849	100	0	22.54
	15	2503.5	39725	75	0	10	2515.5	39845	50	0	22.56
	15	2503.5	39725	75	0	15	2518.5	39875	75	0	22.54
	15	2503.8	39728	75	0	20	2520.9	39899	100	0	22.52
	20	2506	39750	100	0	5	2517.7	39867	25	0	22.46
	20	2506	39750	100	0	10	2520.4	39894	50	0	22.58
	20	2506	39750	100	0	15	2523.1	39921	75	0	22.57
	20	2506	39750	100	0	20	2525.8	39948	100	0	22.53
Mid	5	2583.8	40528	25	0	20	2595.5	40645	100	0	22.29
	10	2585.9	40549	50	0	15	2597.9	40669	75	0	22.38
	10	2583.6	40526	50	0	20	2598	40670	100	0	22.34
	15	2588.1	40571	75	0	10	2600.1	40691	50	0	22.41
	15	2585.5	40545	75	0	15	2600.5	40695	75	0	22.39
	15	2583.3	40523	75	0	20	2600.4	40694	100	0	22.36
	20	2590.5	40595	100	0	5	2602.2	40712	25	0	22.41
	20	2588.1	40571	100	0	10	2602.5	40715	50	0	22.42
	20	2585.6	40546	100	0	15	2602.7	40717	75	0	22.42
	20	2583.1	40521	100	0	20	2602.9	40719	100	0	22.38
High	5	2668.3	41373	25	0	20	2680	41490	100	0	22.05
	10	2670.5	41395	50	0	15	2682.5	41515	75	0	22.32
	10	2665.6	41346	50	0	20	2680	41490	100	0	22.38
	15	2672.7	41417	75	0	10	2684.7	41537	50	0	22.31
	15	2667.5	41365	75	0	15	2682.5	41515	75	0	22.34
	15	2662.9	41319	75	0	20	2680	41490	100	0	22.41
	20	2675	41440	100	0	5	2686.7	41557	25	0	22.38
	20	2670.1	41391	100	0	10	2684.5	41535	50	0	22.42
	20	2665.1	41341	100	0	15	2682.2	41512	75	0	22.20
	20	2660.2	41292	100	0	20	2680	41490	100	0	22.41

Note:

Modulation : QPSK(Full RB)

Operating frequency	PCC					SCC					Conducted. Power [dBm]
	Bandwidth [MHz]	Freq. (MHz)	Channel	RB	RB Offset	Bandwidth [MHz]	Freq. (MHz)	Channel	RB	RB Offset	
Low	5	2499.3	39683	1	24	20	2511	39800	1	0	22.98
	10	2501.3	39703	1	49	15	2513.3	39823	1	0	22.90
	10	2501.5	39705	1	49	20	2515.9	39849	1	0	22.75
	15	2503.5	39725	1	74	10	2515.5	39845	1	0	23.00
	15	2503.5	39725	1	74	15	2518.5	39875	1	0	23.00
	15	2503.8	39728	1	74	20	2520.9	39899	1	0	22.97
	20	2506	39750	1	99	5	2517.7	39867	1	0	23.00
	20	2506	39750	1	99	10	2520.4	39894	1	0	22.90
	20	2506	39750	1	99	15	2523.1	39921	1	0	22.76
	20	2506	39750	1	99	20	2525.8	39948	1	0	22.93
Mid	5	2583.8	40528	1	24	20	2595.5	40645	1	0	22.72
	10	2585.9	40549	1	49	15	2597.9	40669	1	0	22.78
	10	2583.6	40526	1	49	20	2598	40670	1	0	22.67
	15	2588.1	40571	1	74	10	2600.1	40691	1	0	22.84
	15	2585.5	40545	1	74	15	2600.5	40695	1	0	22.86
	15	2583.3	40523	1	74	20	2600.4	40694	1	0	22.87
	20	2590.5	40595	1	99	5	2602.2	40712	1	0	22.92
	20	2588.1	40571	1	99	10	2602.5	40715	1	0	22.88
	20	2585.6	40546	1	99	15	2602.7	40717	1	0	22.32
	20	2583.1	40521	1	99	20	2602.9	40719	1	0	22.88
High	5	2668.3	41373	1	24	20	2680	41490	1	0	22.38
	10	2670.5	41395	1	49	15	2682.5	41515	1	0	22.63
	10	2665.6	41346	1	49	20	2680	41490	1	0	22.68
	15	2672.7	41417	1	74	10	2684.7	41537	1	0	22.71
	15	2667.5	41365	1	74	15	2682.5	41515	1	0	22.76
	15	2662.9	41319	1	74	20	2680	41490	1	0	22.52
	20	2675	41440	1	99	5	2686.7	41557	1	0	23.04
	20	2670.1	41391	1	99	10	2684.5	41535	1	0	22.74
	20	2665.1	41341	1	99	15	2682.2	41512	1	0	22.61
	20	2660.2	41292	1	99	20	2680	41490	1	0	22.68

Note:

Modulation : 16QAM(1RB)

Operating frequency	PCC					SCC					Conducted. Power [dBm]
	Bandwidth [MHz]	Freq. (MHz)	Channel	RB	RB Offset	Bandwidth [MHz]	Freq. (MHz)	Channel	RB	RB Offset	
Low	5	2499.3	39683	25	0	20	2511	39800	100	0	21.50
	10	2501.3	39703	50	0	15	2513.3	39823	75	0	21.48
	10	2501.5	39705	50	0	20	2515.9	39849	100	0	21.54
	15	2503.5	39725	75	0	10	2515.5	39845	50	0	21.48
	15	2503.5	39725	75	0	15	2518.5	39875	75	0	21.58
	15	2503.8	39728	75	0	20	2520.9	39899	100	0	21.55
	20	2506	39750	100	0	5	2517.7	39867	25	0	21.62
	20	2506	39750	100	0	10	2520.4	39894	50	0	21.64
	20	2506	39750	100	0	15	2523.1	39921	75	0	21.63
	20	2506	39750	100	0	20	2525.8	39948	100	0	21.62
Mid	5	2583.8	40528	25	0	20	2595.5	40645	100	0	21.37
	10	2585.9	40549	50	0	15	2597.9	40669	75	0	21.37
	10	2583.6	40526	50	0	20	2598	40670	100	0	21.35
	15	2588.1	40571	75	0	10	2600.1	40691	50	0	21.43
	15	2585.5	40545	75	0	15	2600.5	40695	75	0	21.39
	15	2583.3	40523	75	0	20	2600.4	40694	100	0	21.33
	20	2590.5	40595	100	0	5	2602.2	40712	25	0	21.45
	20	2588.1	40571	100	0	10	2602.5	40715	50	0	21.46
	20	2585.6	40546	100	0	15	2602.7	40717	75	0	21.44
	20	2583.1	40521	100	0	20	2602.9	40719	100	0	21.36
High	5	2668.3	41373	25	0	20	2680	41490	100	0	21.35
	10	2670.5	41395	50	0	15	2682.5	41515	75	0	21.33
	10	2665.6	41346	50	0	20	2680	41490	100	0	21.38
	15	2672.7	41417	75	0	10	2684.7	41537	50	0	21.37
	15	2667.5	41365	75	0	15	2682.5	41515	75	0	21.36
	15	2662.9	41319	75	0	20	2680	41490	100	0	21.43
	20	2675	41440	100	0	5	2686.7	41557	25	0	21.33
	20	2670.1	41391	100	0	10	2684.5	41535	50	0	21.49
	20	2665.1	41341	100	0	15	2682.2	41512	75	0	21.48
	20	2660.2	41292	100	0	20	2680	41490	100	0	21.48

Note:

Modulation : 16QAM(Full RB)

Operating frequency	PCC					SCC					Conducted. Power [dBm]
	Bandwidth [MHz]	Freq. (MHz)	Channel	RB	RB Offset	Bandwidth [MHz]	Freq. (MHz)	Channel	RB	RB Offset	
Low	5	2499.3	39683	1	24	20	2511	39800	1	0	21.36
	10	2501.3	39703	1	49	15	2513.3	39823	1	0	21.55
	10	2501.5	39705	1	49	20	2515.9	39849	1	0	21.51
	15	2503.5	39725	1	74	10	2515.5	39845	1	0	20.93
	15	2503.5	39725	1	74	15	2518.5	39875	1	0	20.90
	15	2503.8	39728	1	74	20	2520.9	39899	1	0	21.67
	20	2506	39750	1	99	5	2517.7	39867	1	0	20.90
	20	2506	39750	1	99	10	2520.4	39894	1	0	20.90
	20	2506	39750	1	99	15	2523.1	39921	1	0	21.62
	20	2506	39750	1	99	20	2525.8	39948	1	0	21.63
Mid	5	2583.8	40528	1	24	20	2595.5	40645	1	0	20.57
	10	2585.9	40549	1	49	15	2597.9	40669	1	0	21.52
	10	2583.6	40526	1	49	20	2598	40670	1	0	21.35
	15	2588.1	40571	1	74	10	2600.1	40691	1	0	21.60
	15	2585.5	40545	1	74	15	2600.5	40695	1	0	21.51
	15	2583.3	40523	1	74	20	2600.4	40694	1	0	21.54
	20	2590.5	40595	1	99	5	2602.2	40712	1	0	22.01
	20	2588.1	40571	1	99	10	2602.5	40715	1	0	21.52
	20	2585.6	40546	1	99	15	2602.7	40717	1	0	21.57
	20	2583.1	40521	1	99	20	2602.9	40719	1	0	21.47
High	5	2668.3	41373	1	24	20	2680	41490	1	0	20.56
	10	2670.5	41395	1	49	15	2682.5	41515	1	0	21.36
	10	2665.6	41346	1	49	20	2680	41490	1	0	21.23
	15	2672.7	41417	1	74	10	2684.7	41537	1	0	21.49
	15	2667.5	41365	1	74	15	2682.5	41515	1	0	21.34
	15	2662.9	41319	1	74	20	2680	41490	1	0	21.40
	20	2675	41440	1	99	5	2686.7	41557	1	0	21.69
	20	2670.1	41391	1	99	10	2684.5	41535	1	0	21.51
	20	2665.1	41341	1	99	15	2682.2	41512	1	0	21.49
	20	2660.2	41292	1	99	20	2680	41490	1	0	21.49

Note:

Modulation : 64QAM(1RB)

Operating frequency	PCC					SCC					Conducted. Power [dBm]
	Bandwidth [MHz]	Freq. (MHz)	Channel	RB	RB Offset	Bandwidth [MHz]	Freq. (MHz)	Channel	RB	RB Offset	
Low	5	2499.3	39683	25	0	20	2511	39800	100	0	20.50
	10	2501.3	39703	50	0	15	2513.3	39823	75	0	20.56
	10	2501.5	39705	50	0	20	2515.9	39849	100	0	20.57
	15	2503.5	39725	75	0	10	2515.5	39845	50	0	20.59
	15	2503.5	39725	75	0	15	2518.5	39875	75	0	20.49
	15	2503.8	39728	75	0	20	2520.9	39899	100	0	20.59
	20	2506	39750	100	0	5	2517.7	39867	25	0	20.47
	20	2506	39750	100	0	10	2520.4	39894	50	0	20.60
	20	2506	39750	100	0	15	2523.1	39921	75	0	20.46
	20	2506	39750	100	0	20	2525.8	39948	100	0	20.58
Mid	5	2583.8	40528	25	0	20	2595.5	40645	100	0	20.38
	10	2585.9	40549	50	0	15	2597.9	40669	75	0	20.46
	10	2583.6	40526	50	0	20	2598	40670	100	0	20.41
	15	2588.1	40571	75	0	10	2600.1	40691	50	0	20.43
	15	2585.5	40545	75	0	15	2600.5	40695	75	0	20.42
	15	2583.3	40523	75	0	20	2600.4	40694	100	0	20.31
	20	2590.5	40595	100	0	5	2602.2	40712	25	0	20.40
	20	2588.1	40571	100	0	10	2602.5	40715	50	0	20.48
	20	2585.6	40546	100	0	15	2602.7	40717	75	0	20.32
	20	2583.1	40521	100	0	20	2602.9	40719	100	0	20.34
High	5	2668.3	41373	25	0	20	2680	41490	100	0	20.40
	10	2670.5	41395	50	0	15	2682.5	41515	75	0	20.43
	10	2665.6	41346	50	0	20	2680	41490	100	0	20.42
	15	2672.7	41417	75	0	10	2684.7	41537	50	0	20.43
	15	2667.5	41365	75	0	15	2682.5	41515	75	0	20.39
	15	2662.9	41319	75	0	20	2680	41490	100	0	20.44
	20	2675	41440	100	0	5	2686.7	41557	25	0	20.38
	20	2670.1	41391	100	0	10	2684.5	41535	50	0	20.49
	20	2665.1	41341	100	0	15	2682.2	41512	75	0	20.39
	20	2660.2	41292	100	0	20	2680	41490	100	0	20.48

Note:

Modulation : 64QAM(Full RB)

8.2 Equivalent Isotropic Radiated Power

	PCC			SCC			Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol.	E.I.R.P	
	BW [MHz]	Freq. (MHz)	RB/Offset	BW [MHz]	Freq. (MHz)	RB/Offset						W	dBm
Low	5	39683	1/24	20	39800	1/0	-22.71	14.00	10.75	2.32	H	0.18	22.43
	10	39703	1/49	15	39823	1/0	-22.41	14.30	10.75	2.32	H	0.19	22.73
	10	39705	1/49	20	39849	1/0	-22.23	14.48	10.75	2.32	H	0.20	22.91
	15	39725	1/74	10	39845	1/0	-22.07	14.64	10.75	2.32	H	0.20	23.07
	15	39725	1/74	15	39875	1/0	-22.27	14.44	10.75	2.32	H	0.19	22.87
	15	39728	1/74	20	39899	1/0	-22.37	14.34	10.75	2.32	H	0.19	22.77
	20	39750	1/99	5	39867	1/0	-21.87	14.84	10.75	2.32	H	0.21	23.27
	20	39750	1/99	10	39894	1/0	-22.31	14.40	10.75	2.32	H	0.19	22.83
	20	39750	1/99	15	39921	1/0	-22.45	14.26	10.75	2.32	H	0.19	22.69
	20	39750	1/99	20	39948	1/0	-22.70	14.01	10.75	2.32	H	0.18	22.44
Mid	5	40528	1/24	20	40645	1/0	-23.17	13.62	10.98	2.35	H	0.17	22.25
	10	40549	1/49	15	40669	1/0	-23.00	13.79	10.98	2.35	H	0.17	22.42
	10	40526	1/49	20	40670	1/0	-23.23	13.56	10.98	2.35	H	0.17	22.19
	15	40571	1/74	10	40691	1/0	-23.83	12.96	10.98	2.35	H	0.14	21.59
	15	40545	1/74	15	40695	1/0	-23.53	13.26	10.98	2.35	H	0.15	21.89
	15	40523	1/74	20	40694	1/0	-23.36	13.43	10.98	2.35	H	0.16	22.06
	20	40595	1/99	5	40712	1/0	-23.10	13.69	10.98	2.35	H	0.17	22.32
	20	40571	1/99	10	40715	1/0	-23.45	13.34	10.98	2.35	H	0.16	21.97
	20	40546	1/99	15	40717	1/0	-23.88	12.91	10.98	2.35	H	0.14	21.54
	20	40521	1/99	20	40719	1/0	-23.50	13.29	10.98	2.35	H	0.16	21.92
High	5	41373	1/24	20	41490	1/0	-25.64	11.34	11.10	2.39	H	0.10	20.06
	10	41395	1/49	15	41515	1/0	-26.20	10.78	11.10	2.39	H	0.09	19.50
	10	41346	1/49	20	41490	1/0	-25.56	11.42	11.10	2.39	H	0.10	20.14
	15	41417	1/74	10	41537	1/0	-25.76	11.22	11.10	2.39	H	0.10	19.94
	15	41365	1/74	15	41515	1/0	-25.99	10.99	11.10	2.39	H	0.09	19.71
	15	41319	1/74	20	41490	1/0	-25.45	11.53	11.10	2.39	H	0.11	20.25
	20	41440	1/99	5	41557	1/0	-25.92	11.06	11.10	2.39	H	0.10	19.78
	20	41391	1/99	10	41535	1/0	-25.82	11.16	11.10	2.39	H	0.10	19.88
	20	41341	1/99	15	41512	1/0	-25.90	11.08	11.10	2.39	H	0.10	19.80
	20	41292	1/99	20	41490	1/0	-25.37	11.61	11.10	2.39	H	0.11	20.33

Note:

1. Modulation : QPSK
2. Limit : < 2 Watts

	PCC			SCC			Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol.	E.I.R.P	
	BW [MHz]	Freq. (MHz)	RB/Offset	BW [MHz]	Freq. (MHz)	RB/Offset						W	dBm
Low	5	39683	1/24	20	39800	1/0	-23.51	13.20	10.75	2.32	H	0.15	21.63
	10	39703	1/49	15	39823	1/0	-23.38	13.33	10.75	2.32	H	0.15	21.76
	10	39705	1/49	20	39849	1/0	-23.12	13.59	10.75	2.32	H	0.16	22.02
	15	39725	1/74	10	39845	1/0	-22.99	13.72	10.75	2.32	H	0.16	22.15
	15	39725	1/74	15	39875	1/0	-23.26	13.45	10.75	2.32	H	0.15	21.88
	15	39728	1/74	20	39899	1/0	-23.48	13.23	10.75	2.32	H	0.15	21.66
	20	39750	1/99	5	39867	1/0	-22.97	13.74	10.75	2.32	H	0.16	22.17
	20	39750	1/99	10	39894	1/0	-23.28	13.43	10.75	2.32	H	0.15	21.86
	20	39750	1/99	15	39921	1/0	-23.36	13.35	10.75	2.32	H	0.15	21.78
	20	39750	1/99	20	39948	1/0	-23.02	13.69	10.75	2.32	H	0.16	22.12
Mid	5	40528	1/24	20	40645	1/0	-24.06	12.73	10.98	2.35	H	0.14	21.36
	10	40549	1/49	15	40669	1/0	-23.83	12.96	10.98	2.35	H	0.14	21.59
	10	40526	1/49	20	40670	1/0	-24.10	12.69	10.98	2.35	H	0.14	21.32
	15	40571	1/74	10	40691	1/0	-24.37	12.42	10.98	2.35	H	0.13	21.05
	15	40545	1/74	15	40695	1/0	-24.30	12.49	10.98	2.35	H	0.13	21.12
	15	40523	1/74	20	40694	1/0	-23.91	12.88	10.98	2.35	H	0.14	21.51
	20	40595	1/99	5	40712	1/0	-24.13	12.66	10.98	2.35	H	0.13	21.29
	20	40571	1/99	10	40715	1/0	-24.04	12.75	10.98	2.35	H	0.14	21.38
	20	40546	1/99	15	40717	1/0	-24.63	12.16	10.98	2.35	H	0.12	20.79
	20	40521	1/99	20	40719	1/0	-24.15	12.64	10.98	2.35	H	0.13	21.27
High	5	41373	1/24	20	41490	1/0	-26.40	10.58	11.10	2.39	H	0.09	19.30
	10	41395	1/49	15	41515	1/0	-26.78	10.20	11.10	2.39	H	0.08	18.92
	10	41346	1/49	20	41490	1/0	-26.55	10.43	11.10	2.39	H	0.08	19.15
	15	41417	1/74	10	41537	1/0	-26.55	10.43	11.10	2.39	H	0.08	19.15
	15	41365	1/74	15	41515	1/0	-26.93	10.05	11.10	2.39	H	0.08	18.77
	15	41319	1/74	20	41490	1/0	-26.02	10.96	11.10	2.39	H	0.09	19.68
	20	41440	1/99	5	41557	1/0	-27.28	9.70	11.10	2.39	H	0.07	18.42
	20	41391	1/99	10	41535	1/0	-26.84	10.14	11.10	2.39	H	0.08	18.86
	20	41341	1/99	15	41512	1/0	-26.60	10.38	11.10	2.39	H	0.08	19.10
	20	41292	1/99	20	41490	1/0	-26.34	10.64	11.10	2.39	H	0.09	19.36

Note:

1. Modulation : 16QAM
2. Limit : < 2 Watts

	PCC			SCC			Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol.	E.I.R.P	
	BW [MHz]	Freq. (MHz)	RB/Offset	BW [MHz]	Freq. (MHz)	RB/Offset						W	dBm
Low	5	39683	1/24	20	39800	1/0	-25.56	11.15	10.75	2.32	H	0.09	19.58
	10	39703	1/49	15	39823	1/0	-25.31	11.40	10.75	2.32	H	0.10	19.83
	10	39705	1/49	20	39849	1/0	-25.28	11.43	10.75	2.32	H	0.10	19.86
	15	39725	1/74	10	39845	1/0	-25.12	11.59	10.75	2.32	H	0.10	20.02
	15	39725	1/74	15	39875	1/0	-25.16	11.55	10.75	2.32	H	0.10	19.98
	15	39728	1/74	20	39899	1/0	-25.34	11.37	10.75	2.32	H	0.10	19.80
	20	39750	1/99	5	39867	1/0	-25.36	11.35	10.75	2.32	H	0.10	19.78
	20	39750	1/99	10	39894	1/0	-25.64	11.07	10.75	2.32	H	0.09	19.50
	20	39750	1/99	15	39921	1/0	-25.45	11.26	10.75	2.32	H	0.09	19.69
	20	39750	1/99	20	39948	1/0	-25.54	11.17	10.75	2.32	H	0.09	19.60
Mid	5	40528	1/24	20	40645	1/0	-26.05	10.74	10.98	2.35	H	0.09	19.37
	10	40549	1/49	15	40669	1/0	-25.81	10.98	10.98	2.35	H	0.09	19.61
	10	40526	1/49	20	40670	1/0	-26.03	10.76	10.98	2.35	H	0.09	19.39
	15	40571	1/74	10	40691	1/0	-26.57	10.22	10.98	2.35	H	0.08	18.85
	15	40545	1/74	15	40695	1/0	-26.36	10.43	10.98	2.35	H	0.08	19.06
	15	40523	1/74	20	40694	1/0	-26.26	10.53	10.98	2.35	H	0.08	19.16
	20	40595	1/99	5	40712	1/0	-26.38	10.41	10.98	2.35	H	0.08	19.04
	20	40571	1/99	10	40715	1/0	-26.23	10.56	10.98	2.35	H	0.08	19.19
	20	40546	1/99	15	40717	1/0	-26.57	10.22	10.98	2.35	H	0.08	18.85
	20	40521	1/99	20	40719	1/0	-26.32	10.47	10.98	2.35	H	0.08	19.10
High	5	41373	1/24	20	41490	1/0	-28.70	8.28	11.10	2.39	H	0.05	17.00
	10	41395	1/49	15	41515	1/0	-29.12	7.86	11.10	2.39	H	0.05	16.58
	10	41346	1/49	20	41490	1/0	-28.47	8.51	11.10	2.39	H	0.05	17.23
	15	41417	1/74	10	41537	1/0	-28.37	8.61	11.10	2.39	H	0.05	17.33
	15	41365	1/74	15	41515	1/0	-29.03	7.95	11.10	2.39	H	0.05	16.67
	15	41319	1/74	20	41490	1/0	-28.31	8.67	11.10	2.39	H	0.05	17.39
	20	41440	1/99	5	41557	1/0	-29.00	7.98	11.10	2.39	H	0.05	16.70
	20	41391	1/99	10	41535	1/0	-28.94	8.04	11.10	2.39	H	0.05	16.76
	20	41341	1/99	15	41512	1/0	-28.75	8.23	11.10	2.39	H	0.05	16.95
	20	41292	1/99	20	41490	1/0	-28.26	8.72	11.10	2.39	H	0.06	17.44

Note:

1. Modulation : 64QAM
2. Limit : < 2 Watts

8.3 Conducted Spurious Emissions

Operating frequency	PCC				SCC				Measurement Maximum Frequency (GHz)	Factor (dB)	Measurement Maximum Data (dBm)	Result (dBm)
	BW [MHz]	Ch.	Freq. (MHz)	RB/Offset	BW [MHz]	Ch.	Freq. (MHz)	RB/Offset				
Low	20	39750	2506	1/99	5	39867	2517.7	1/0	3.1671	27.98	-62.02	-34.04
Mid	20	40595	2590.5	1/99	5	40712	2602.2	1/0	6.0758	28.59	-61.97	-33.38
High	20	41440	2675	1/99	5	41557	2686.7	1/0	3.6780	27.98	-61.58	-33.61
Low	20	39750	2506	1/0	5	39867	2517.7	1/24	3.7084	27.98	-61.81	-33.84
Mid	20	40595	2590.5	1/0	5	40712	2602.2	1/24	3.7054	27.98	-61.22	-33.24
High	20	41440	2675	1/0	5	41557	2686.7	1/24	3.7139	27.98	-62.10	-34.12
Low	20	39750	2506	100/0	10	39894	2520.4	50/0	3.7084	27.98	-62.34	-34.36
Mid	20	40571	2588.1	100/0	10	40715	2602.5	50/0	3.7114	27.98	-61.92	-33.94
High	20	41391	2670.1	100/0	10	41535	2684.5	50/0	3.6775	27.98	-60.90	-32.92
Low	20	39750	2506	100/0	20	39948	2525.8	100/0	3.6646	27.98	-61.96	-33.98
Mid	20	40521	2583.1	100/0	20	40719	2602.9	100/0	3.0360	27.98	-62.07	-34.09
High	20	41292	2660.2	100/0	20	41490	2680	100/0	26.1498	30.13	-67.19	-37.06

Note:

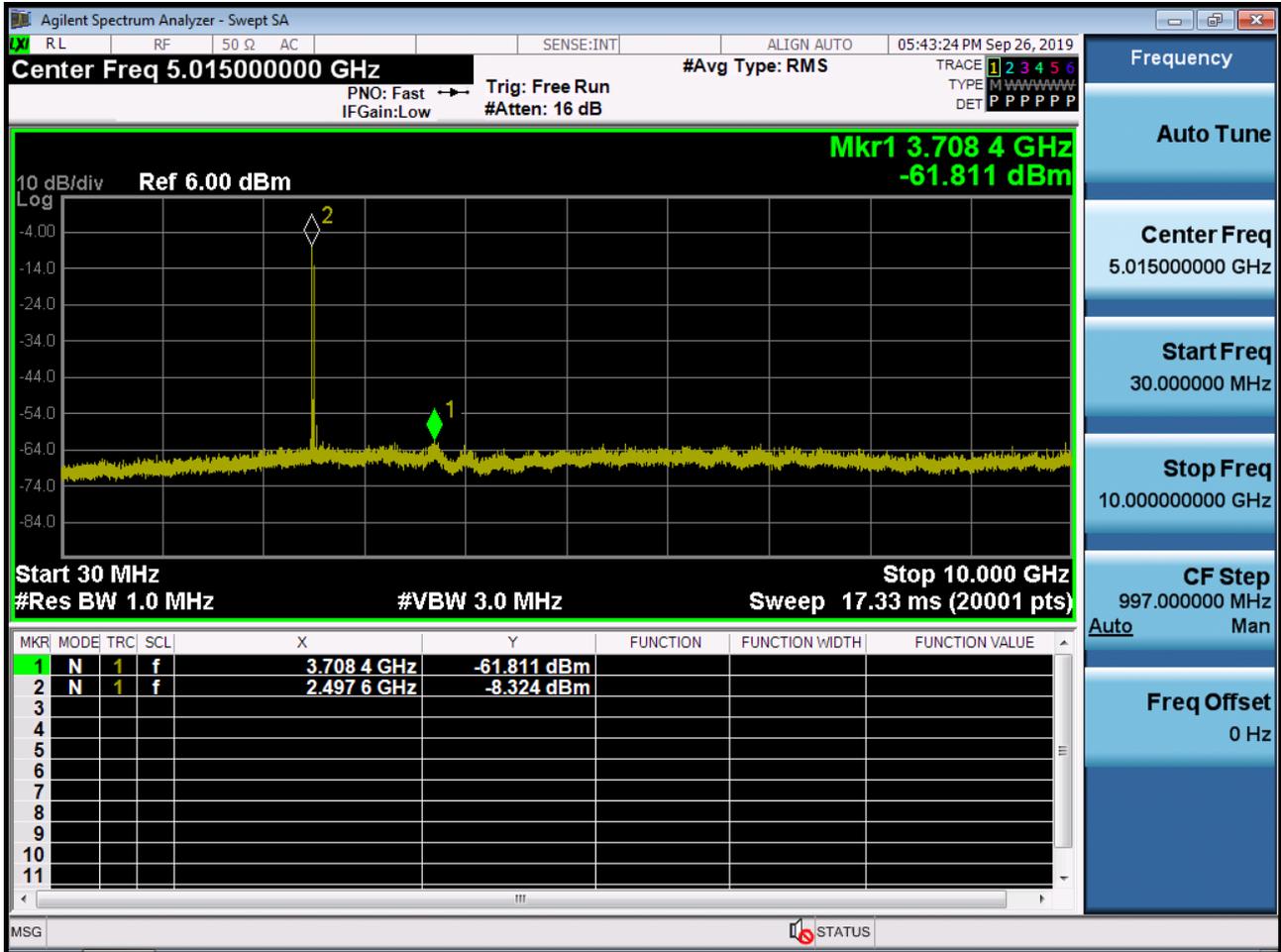
1. Modulation : QPSK
2. Factor(dB) = Cable Loss + Ext. Attenuator + Power Splitter
3. Factors for frequency :

Frequency Range (GHz)	Factor [dB]
0.03 – 1	25.270
1 – 5	27.976
5 – 10	28.591
10 – 15	29.116
15 – 20	29.489
Above 20(26.5)	30.131

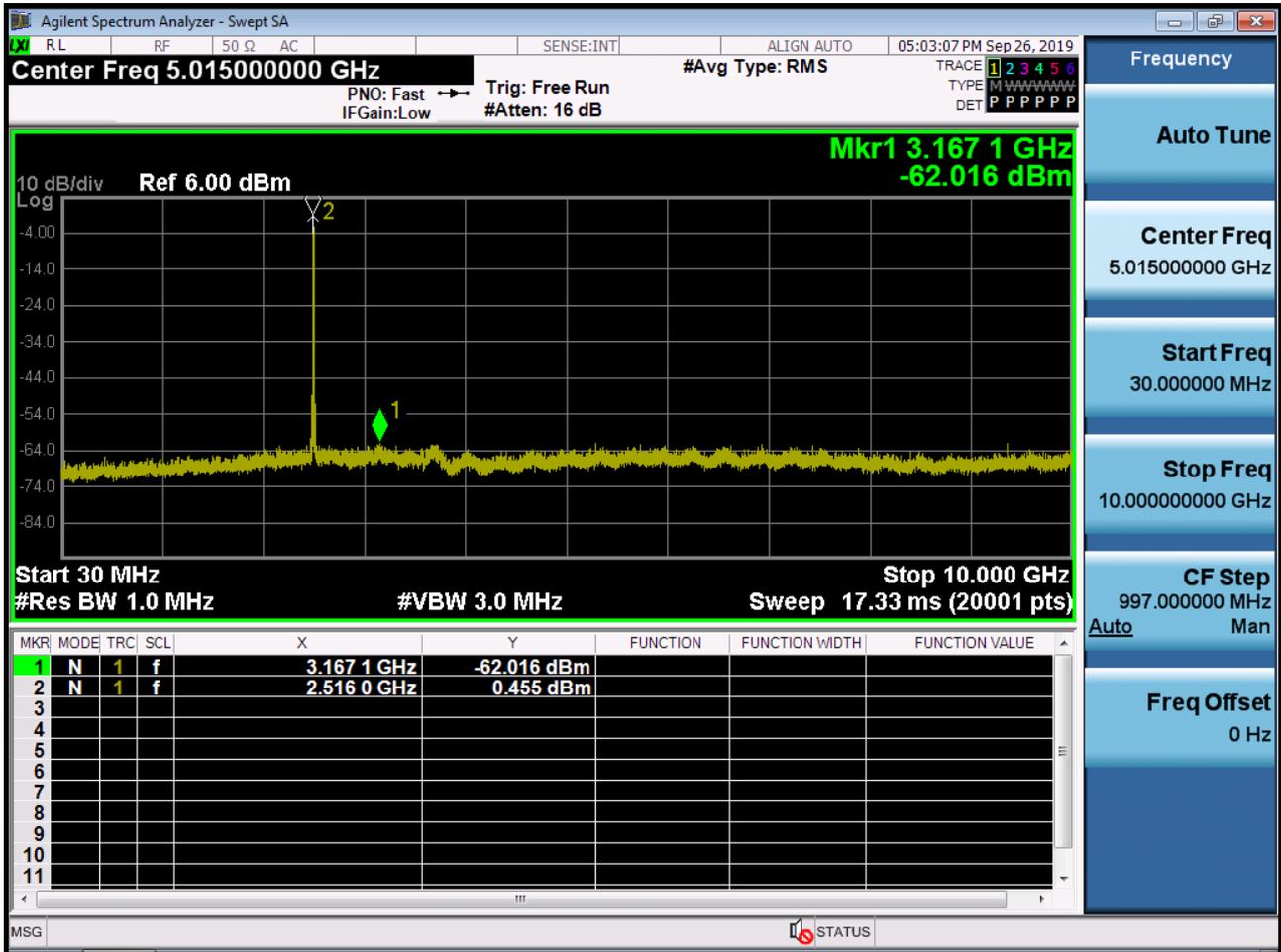
4. Limit : -25.0 dBm

Frequency Range : 30MHz ~ 10GHz

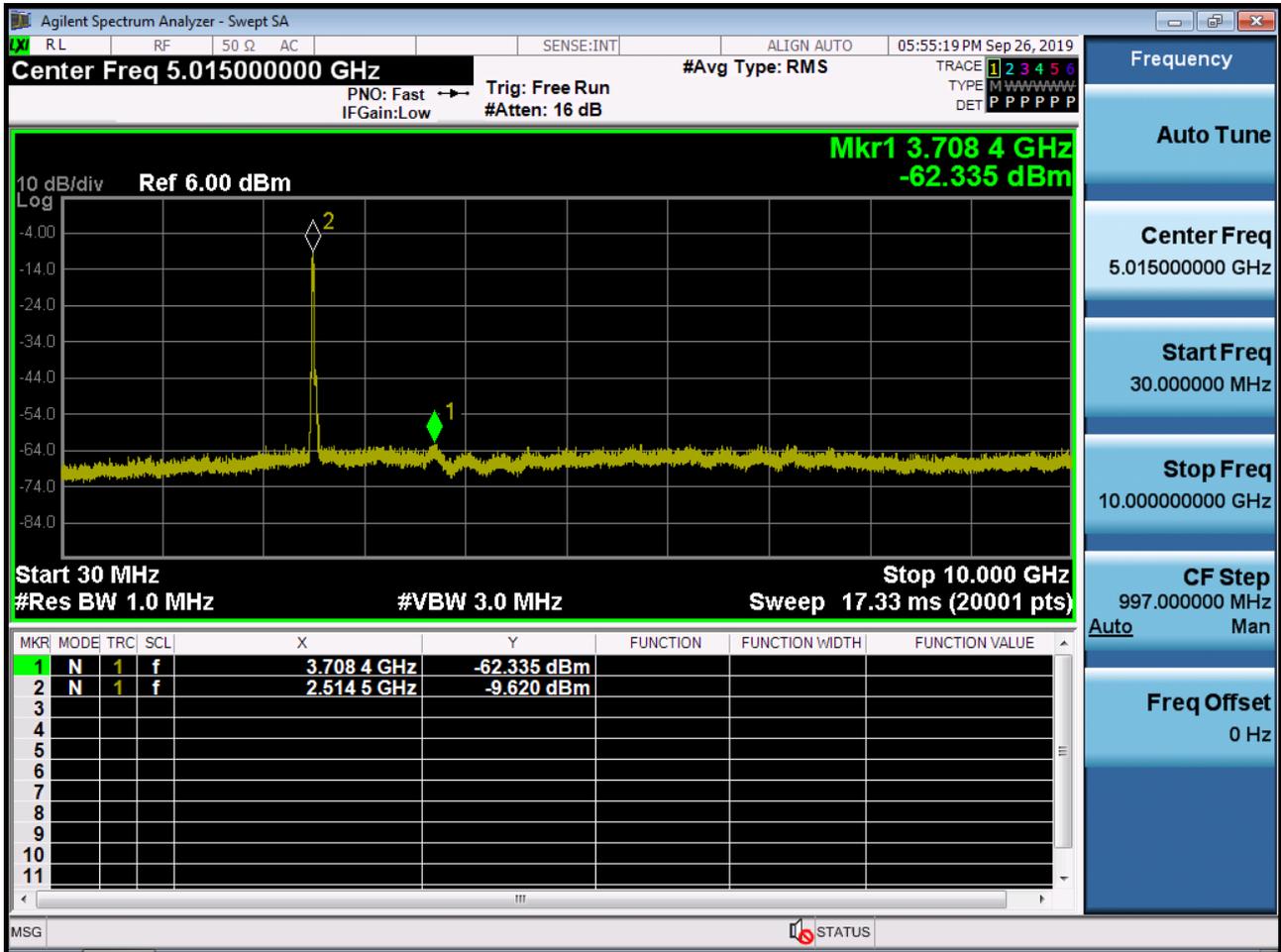
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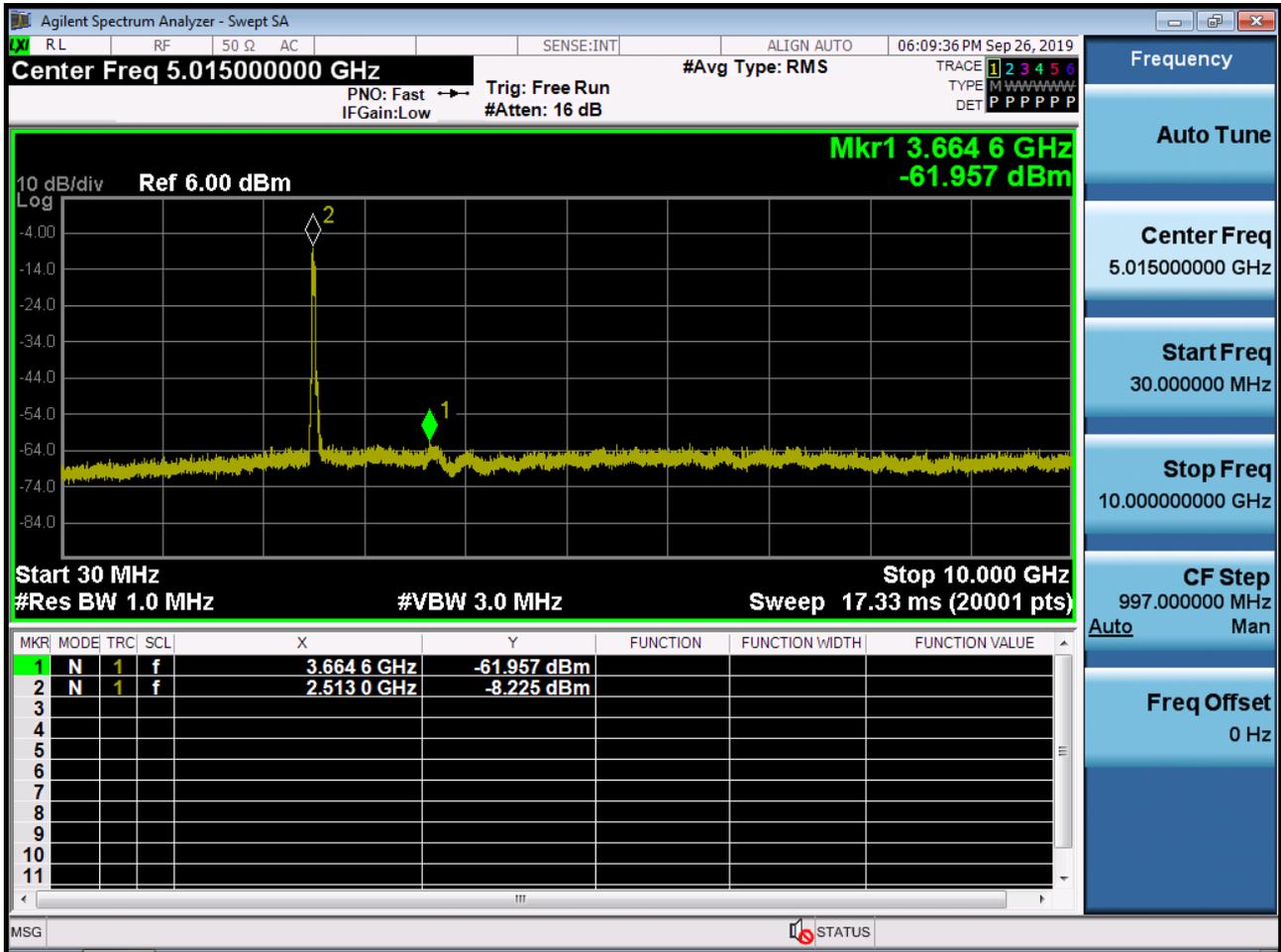
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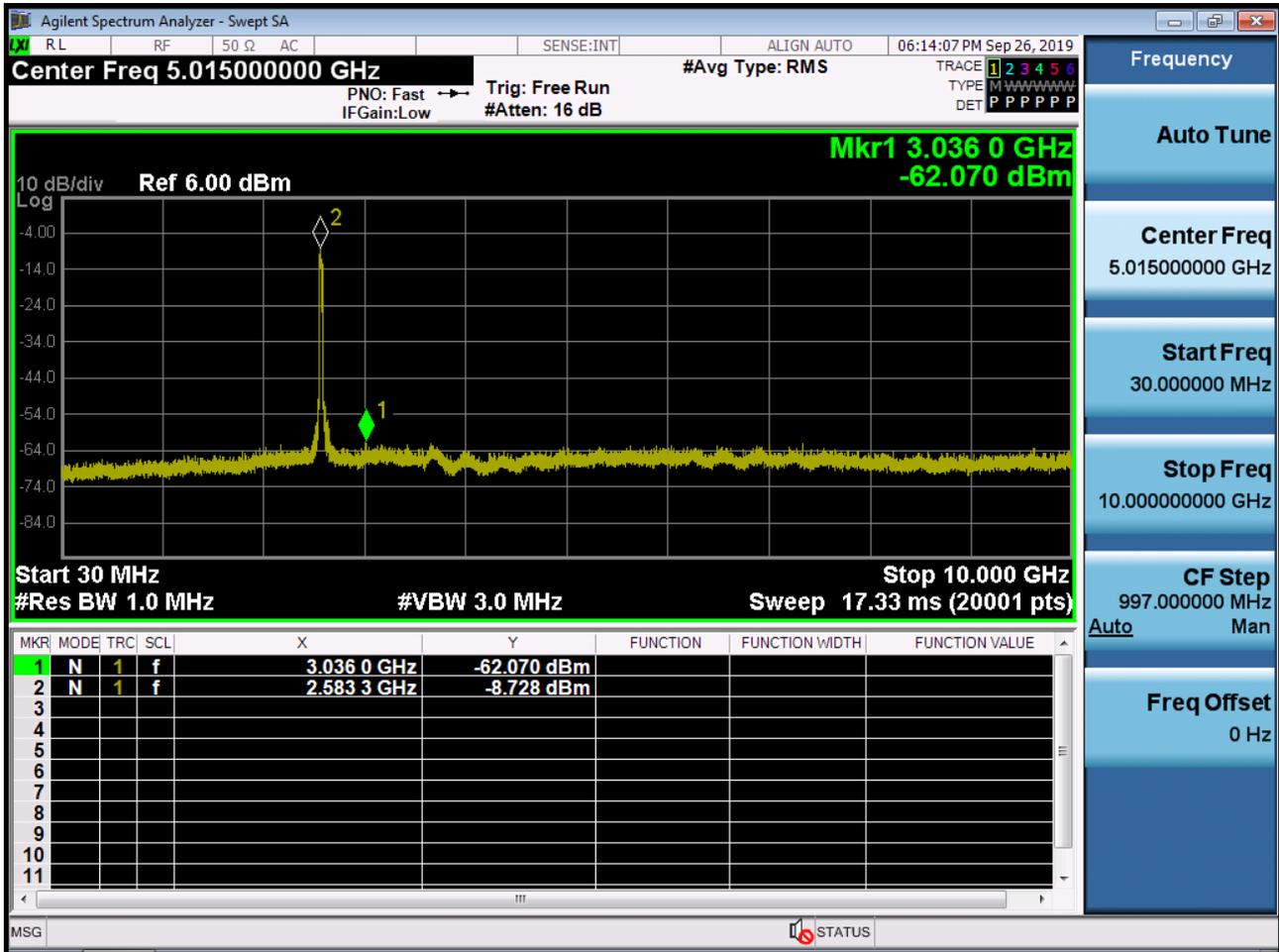
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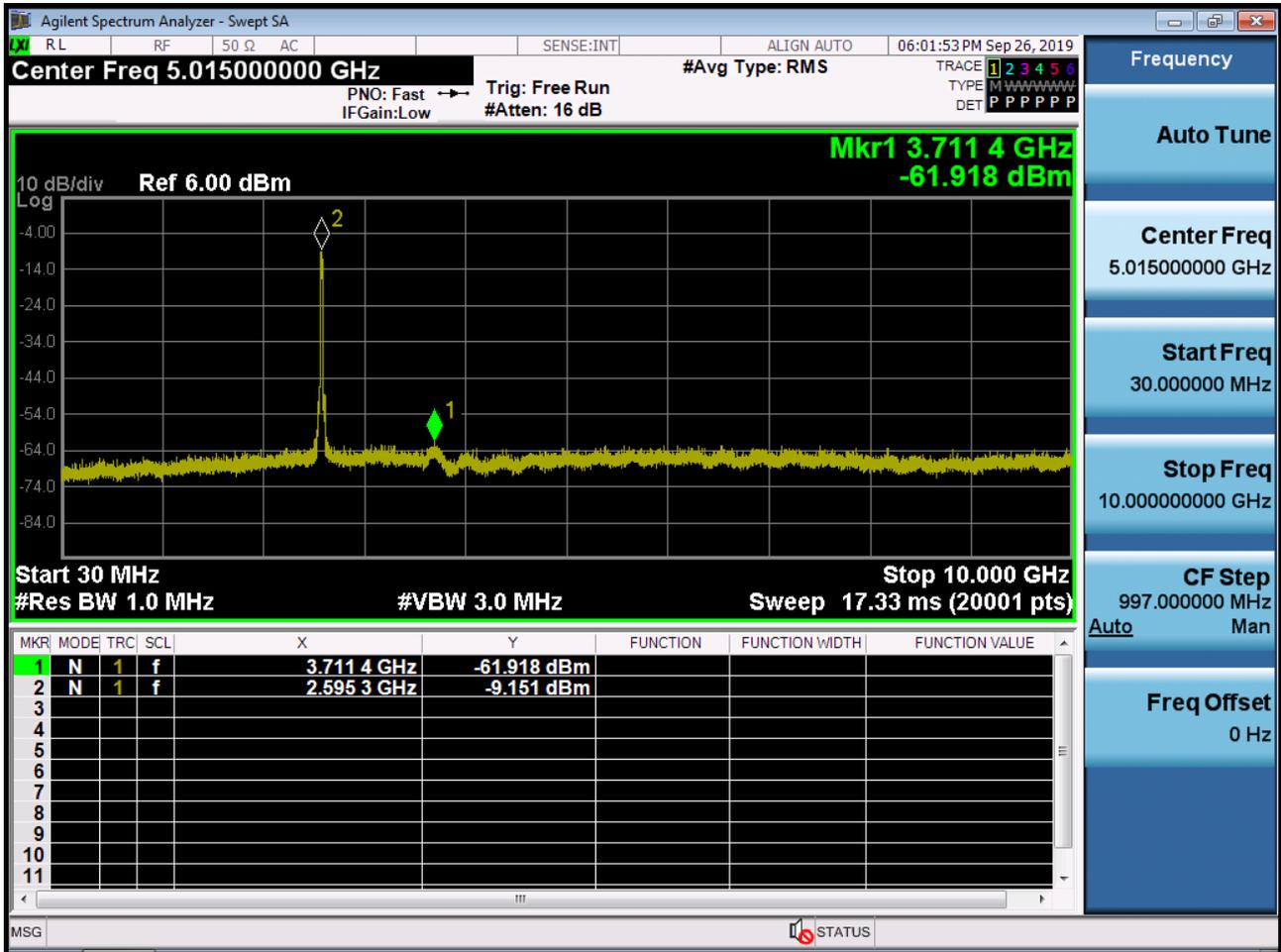
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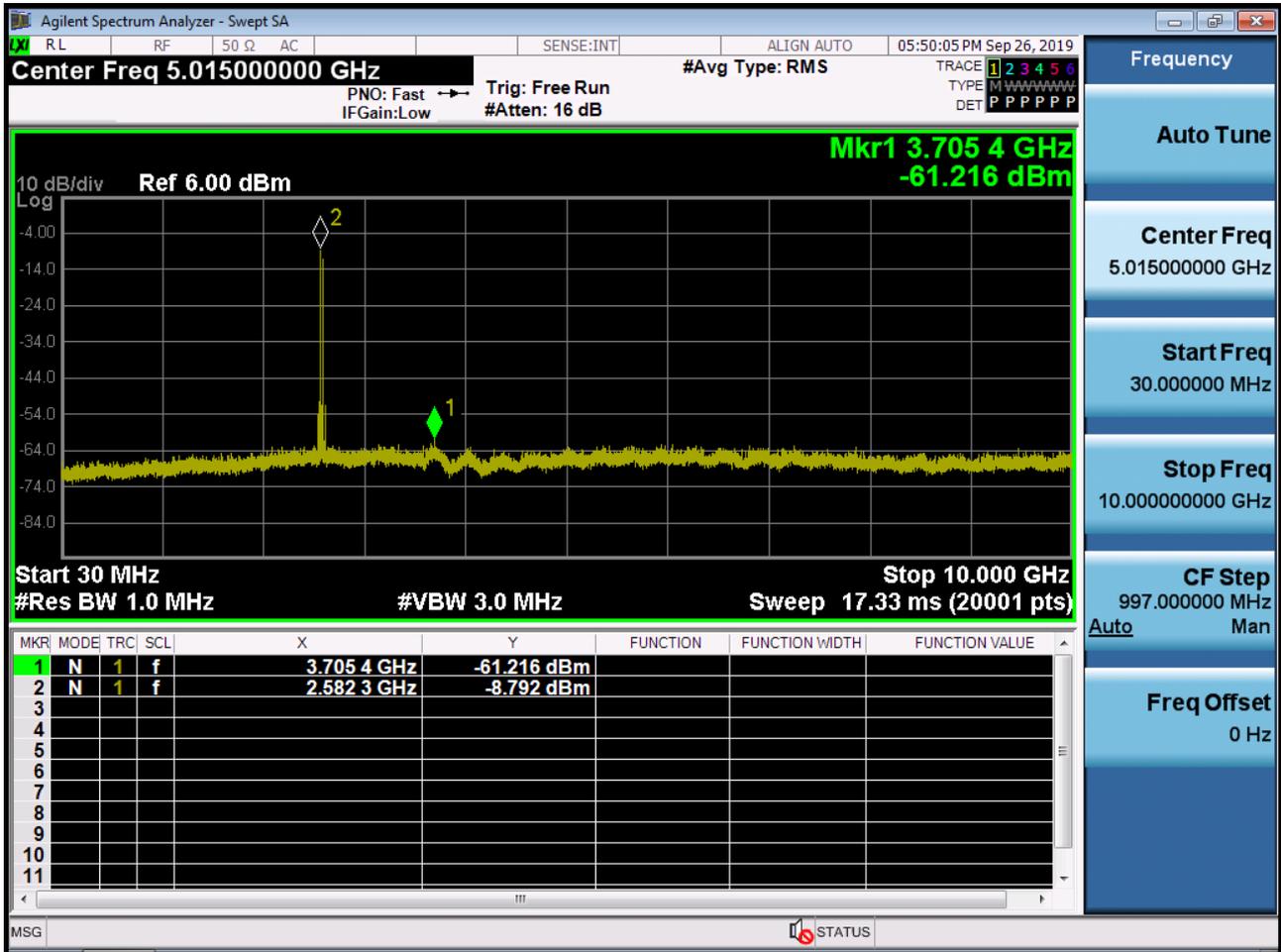
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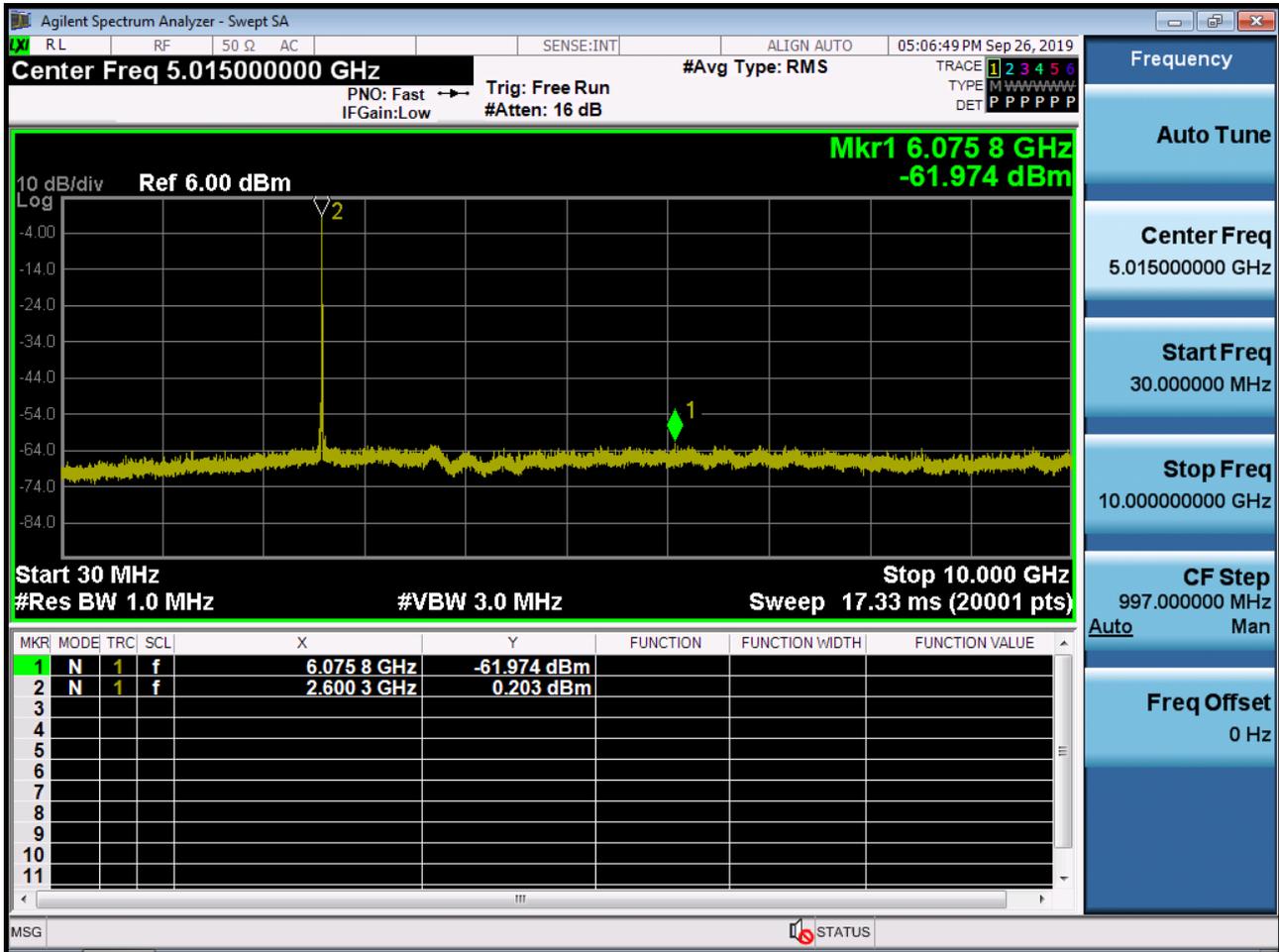
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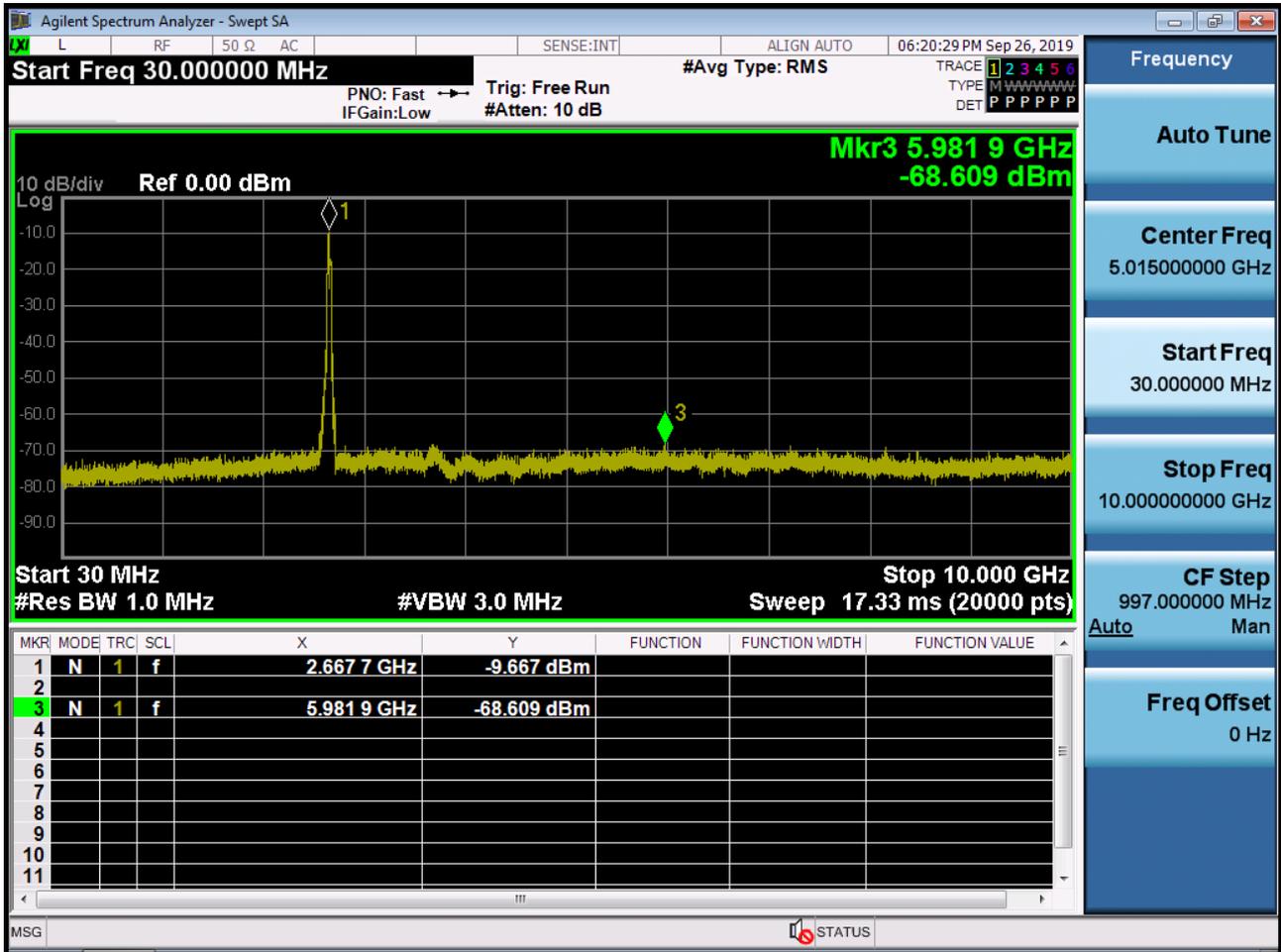
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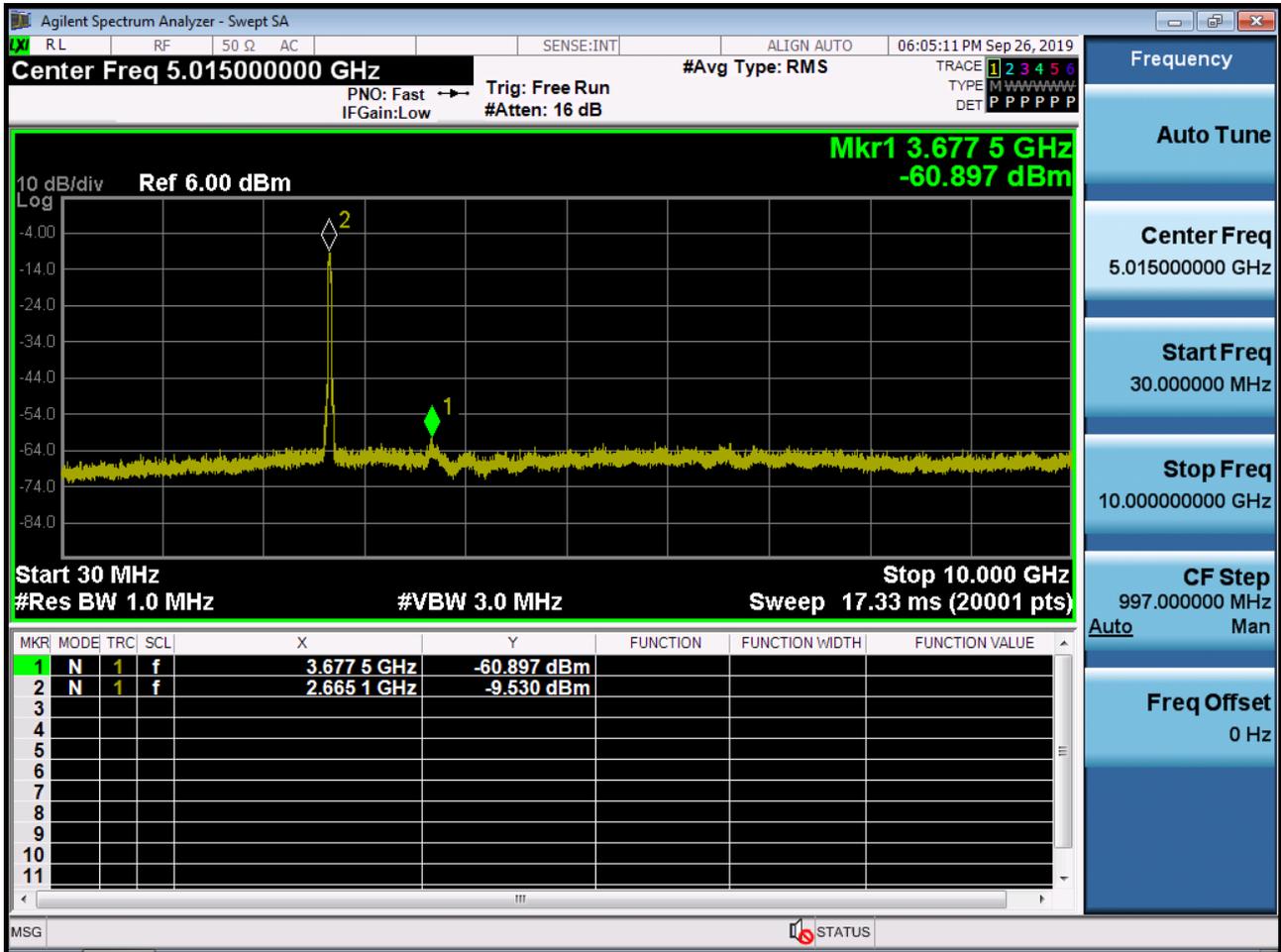
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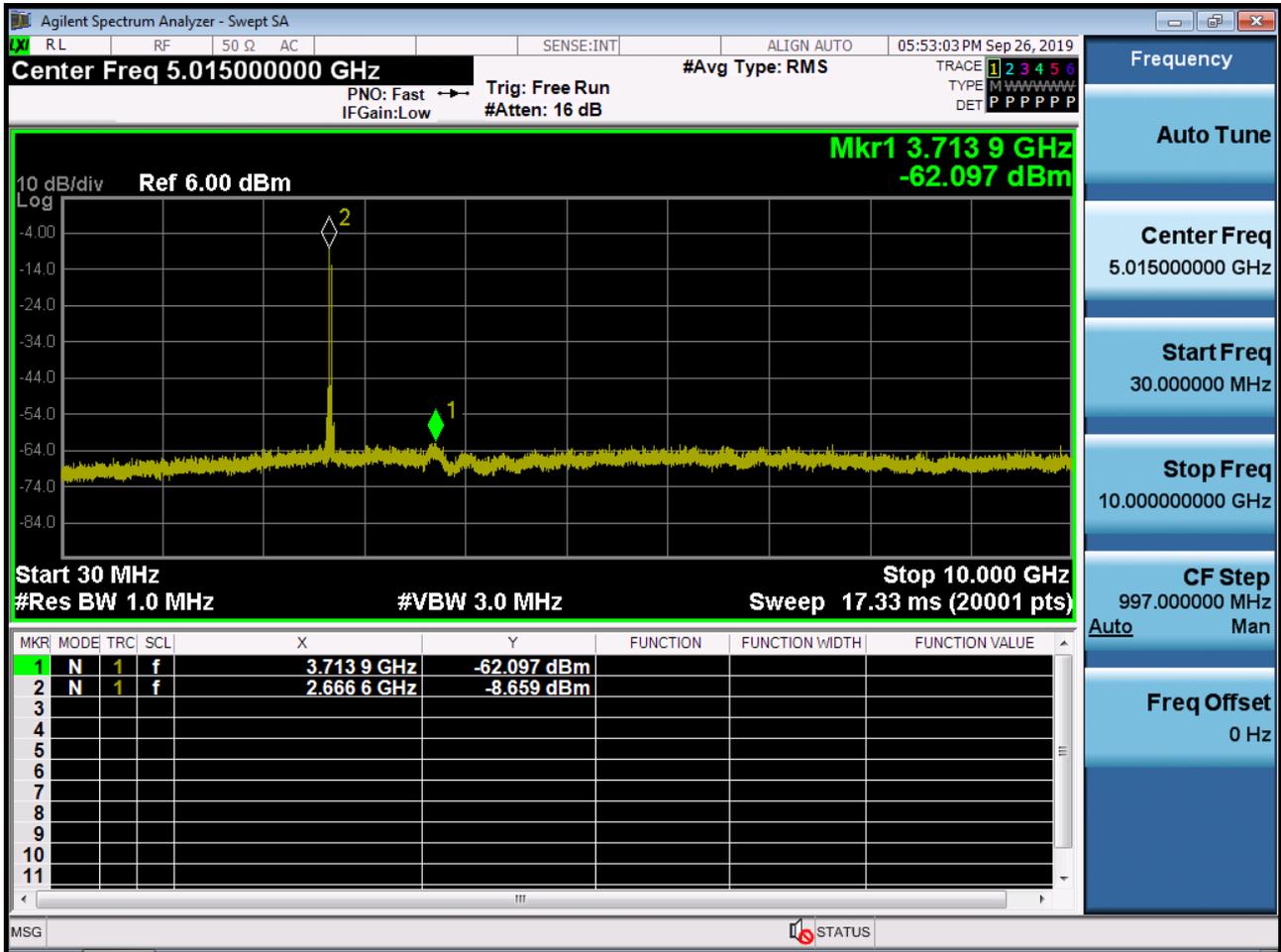
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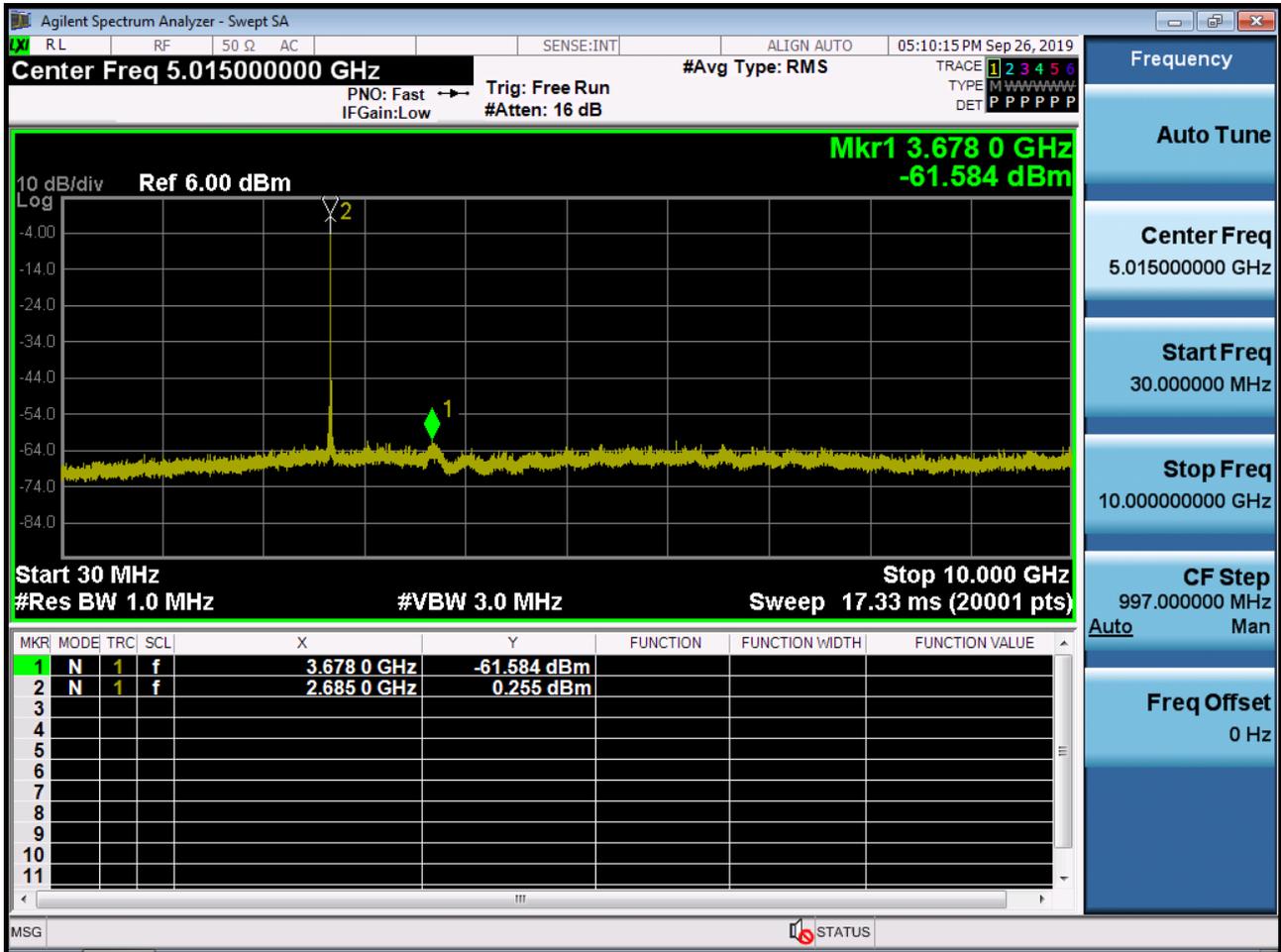
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PCC 20MHz Ch41440 RB1 Offset0 SCC 5MHz Ch41557 RB1 Offset24

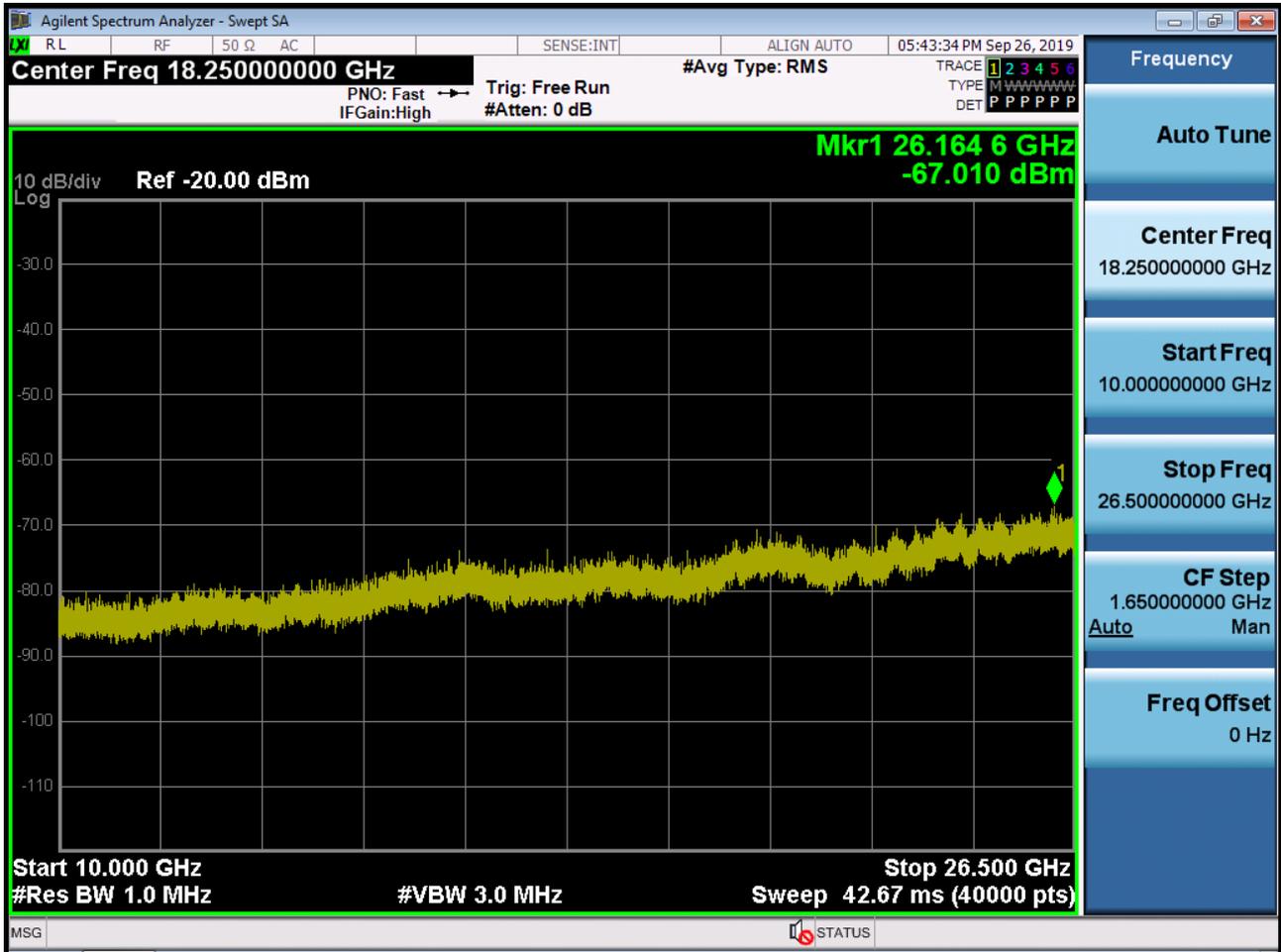


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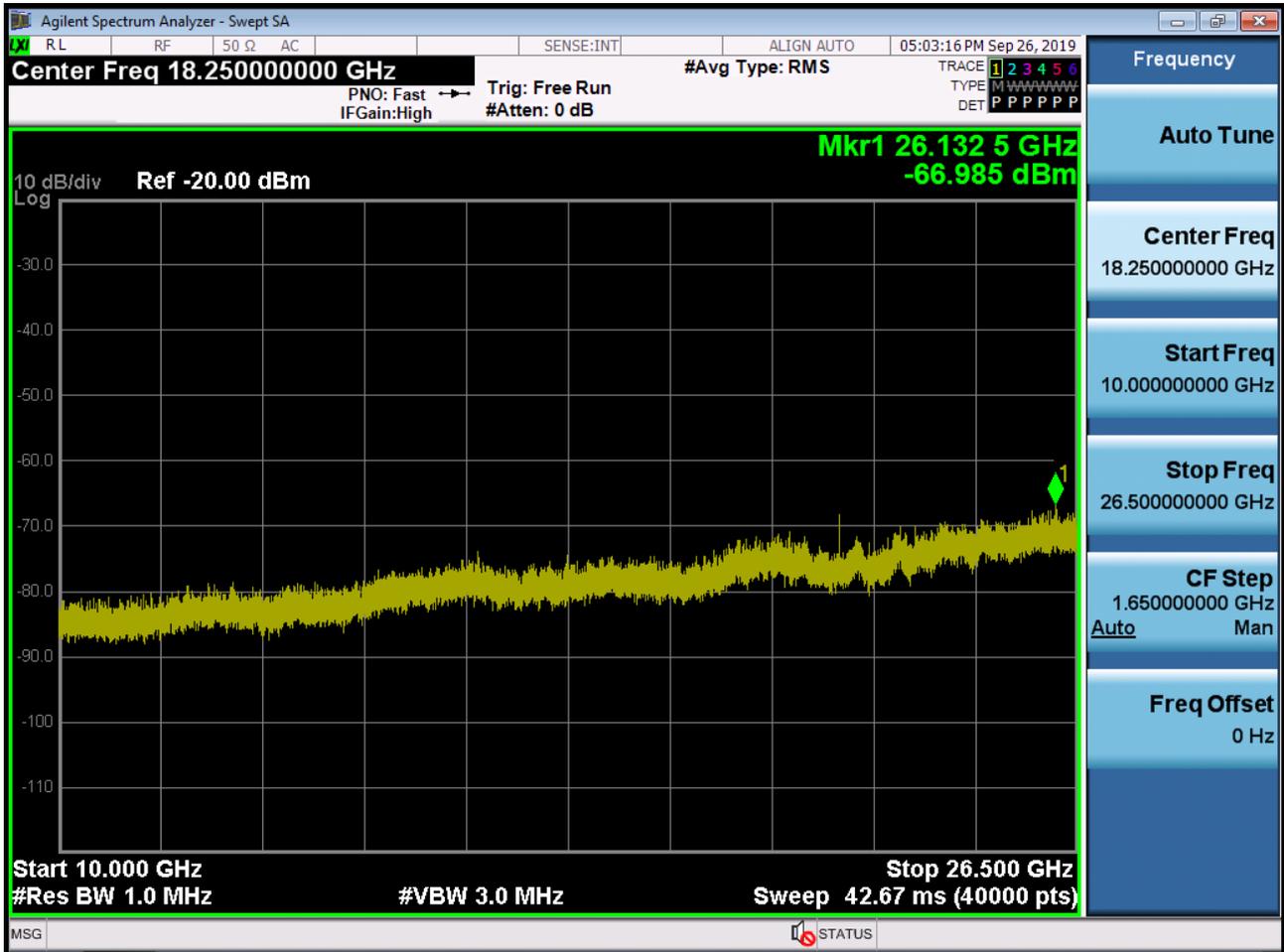


Frequency Range : 10GHz ~ 26.5GHz

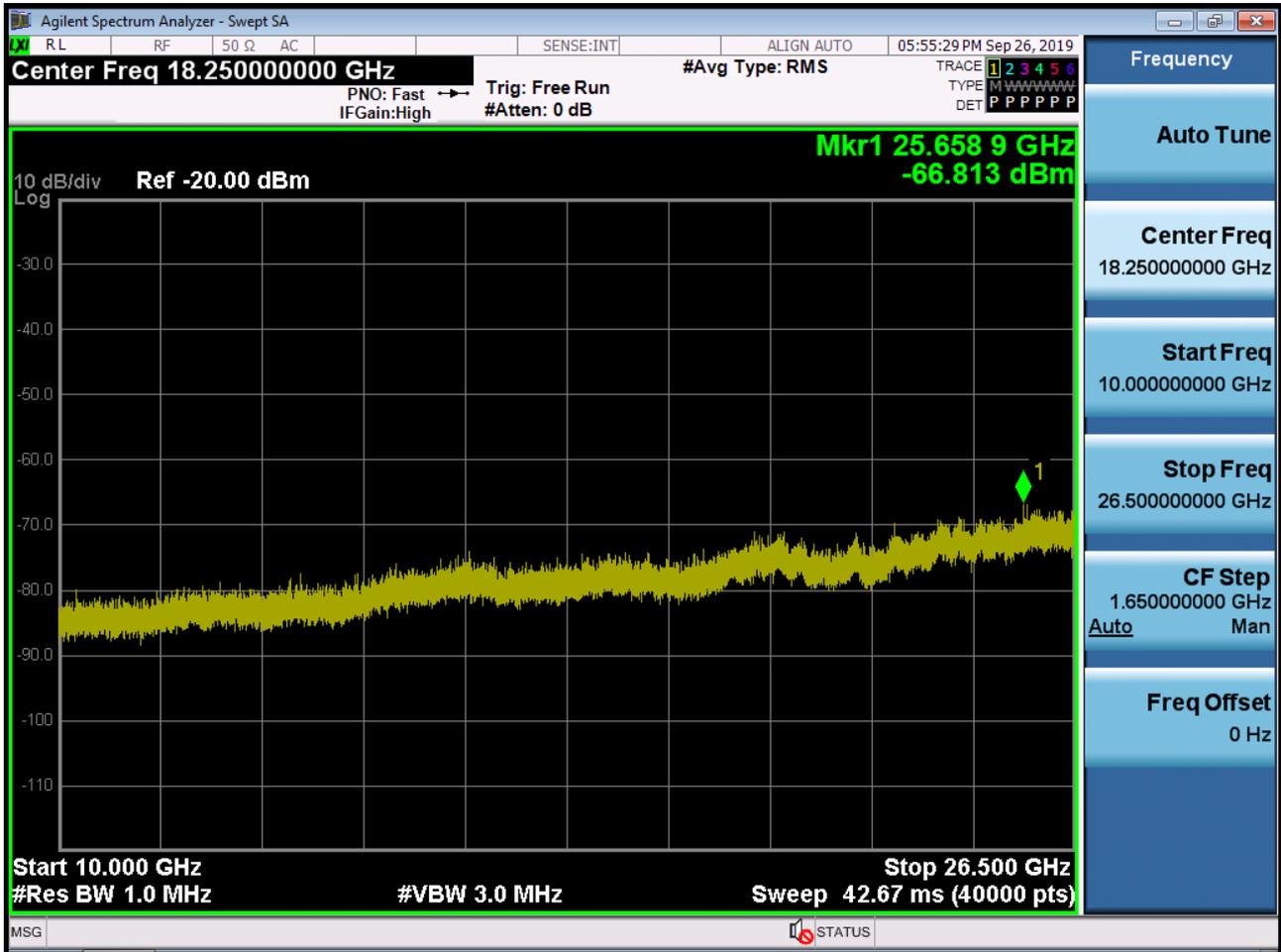
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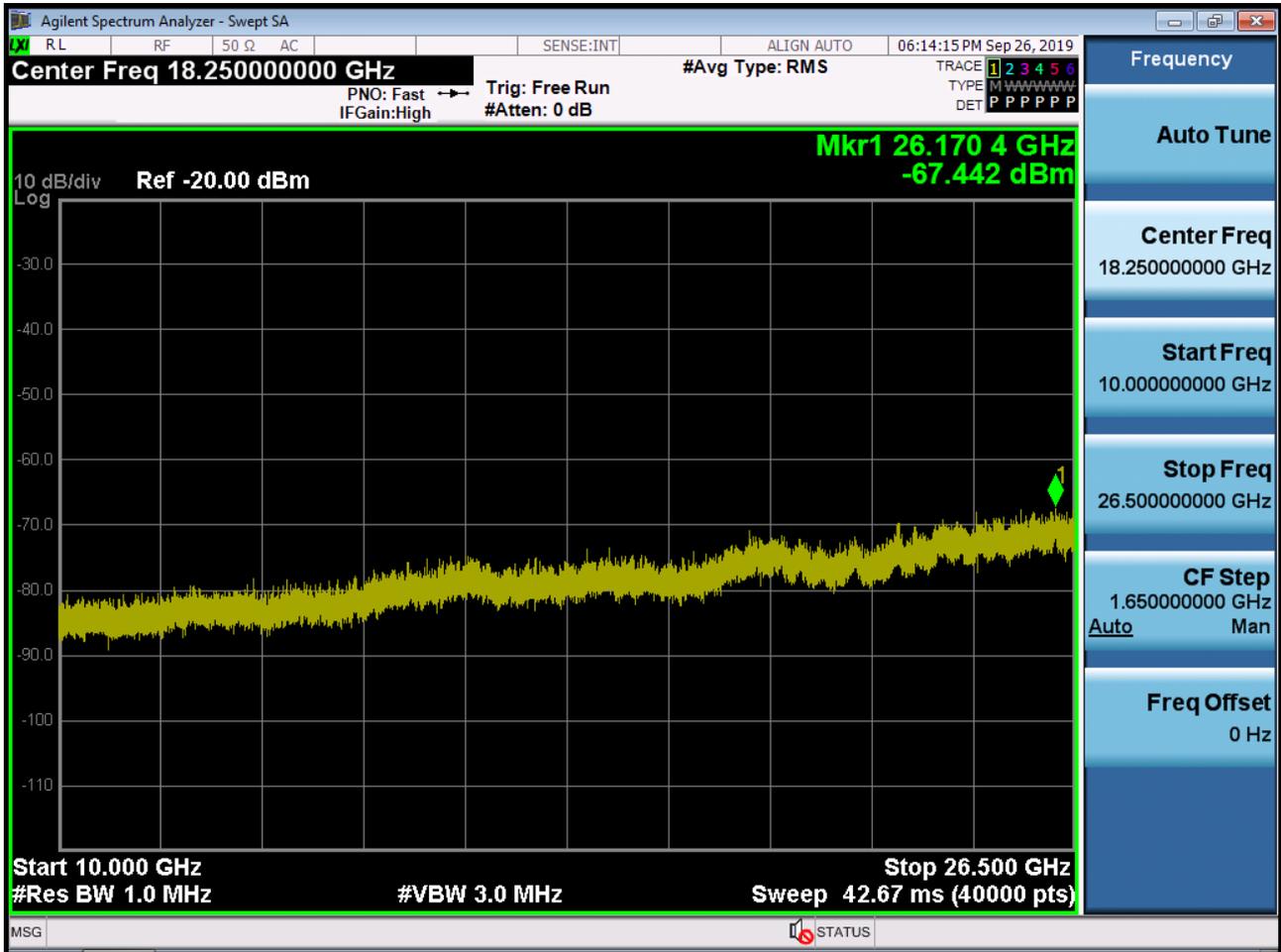
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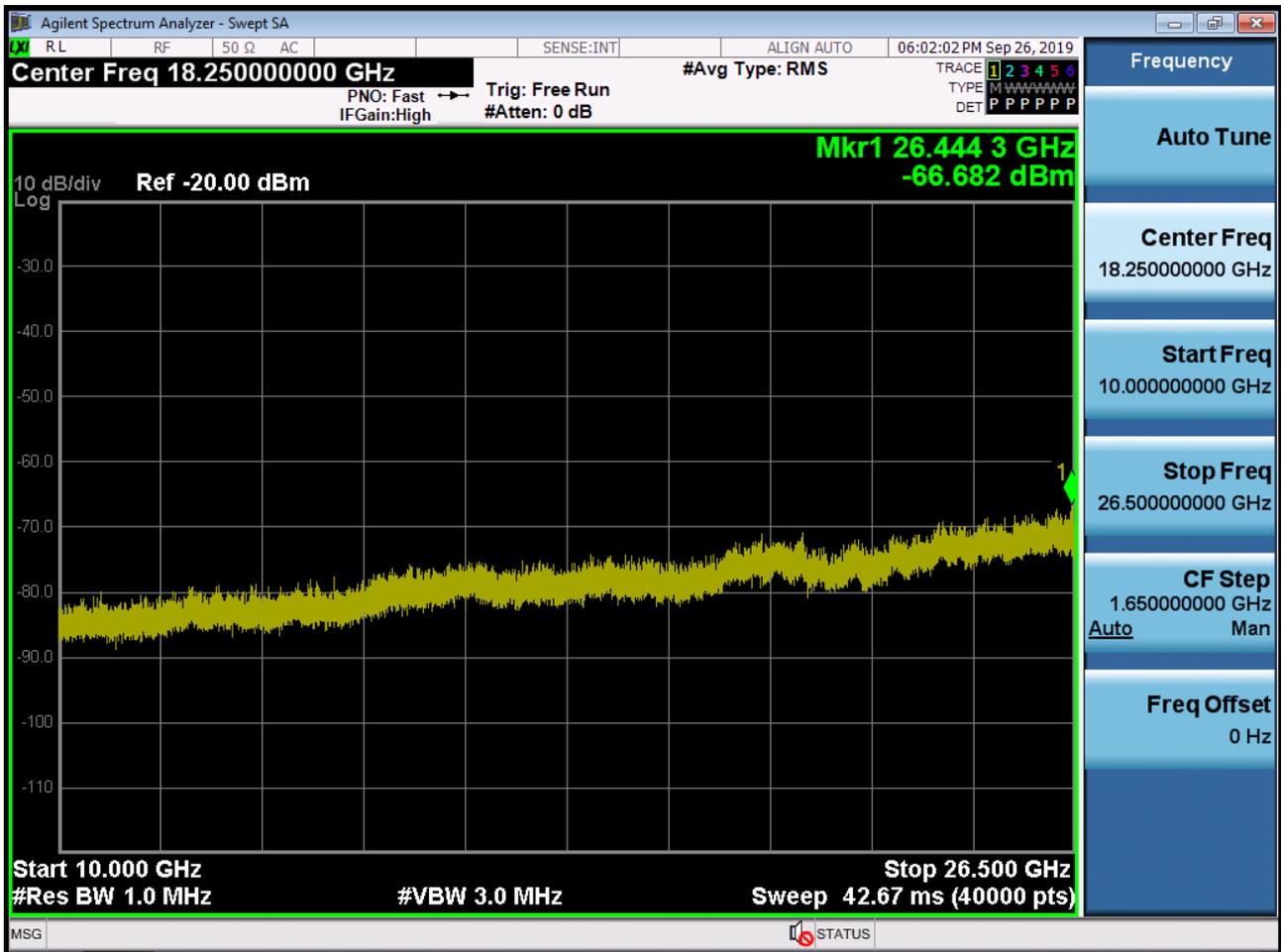
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PCC 20MHz Ch40521 RB100 Offset0, SCC 20MHz Ch40719 RB100 Offset0



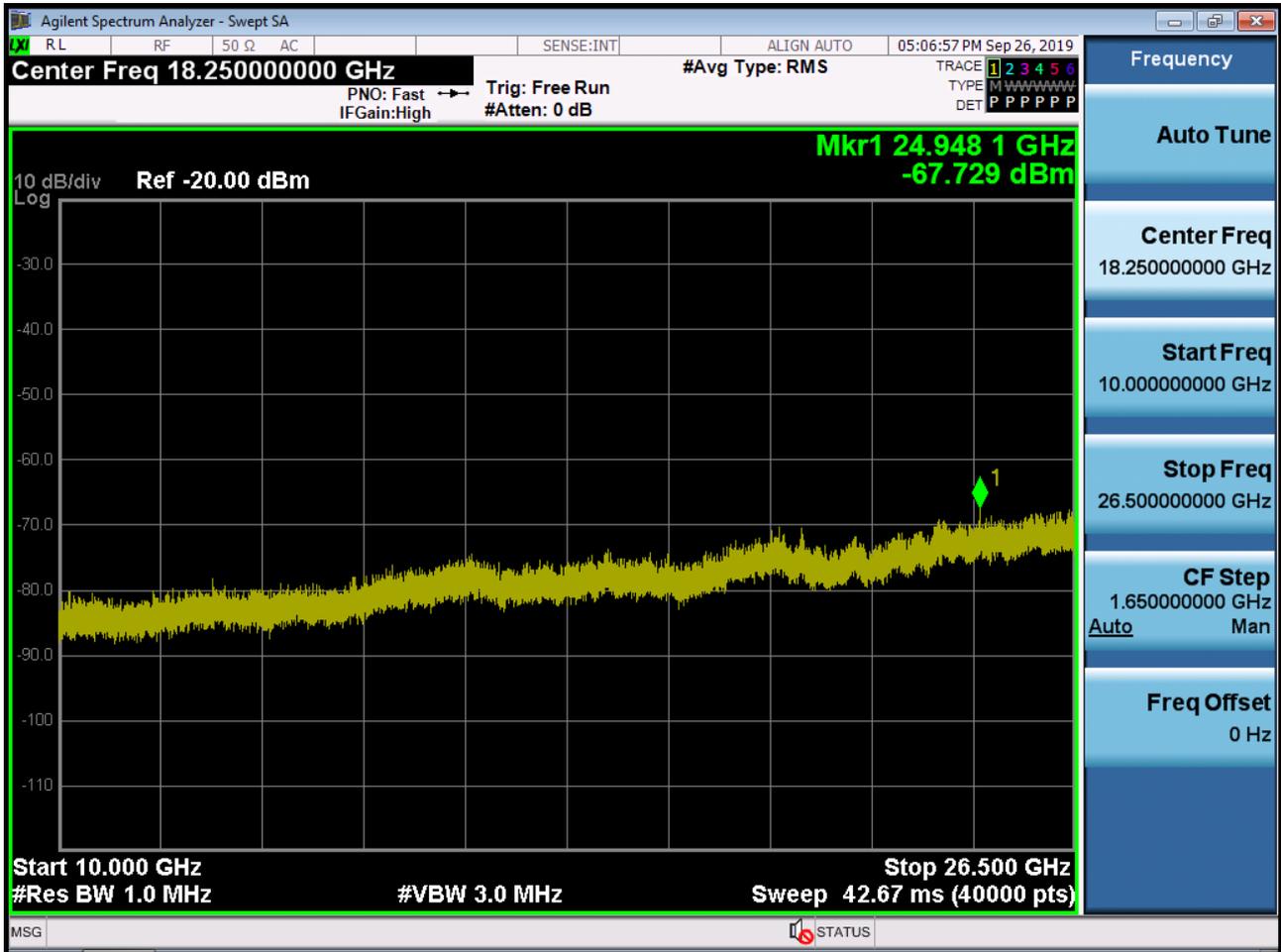
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PCC 20MHz Ch40595 RB1 Offset0, SCC 5MHz Ch40712 RB1 Offset24



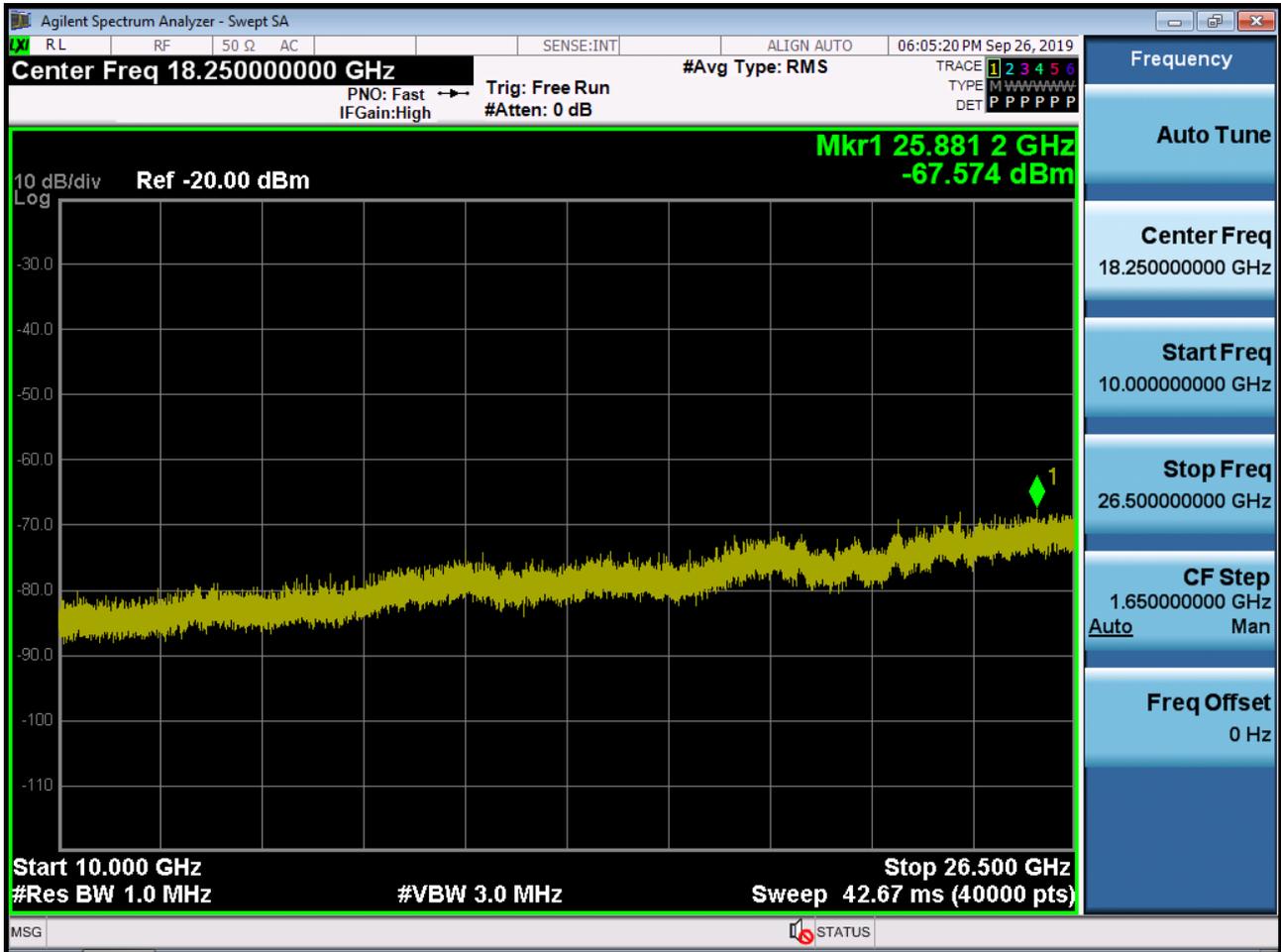
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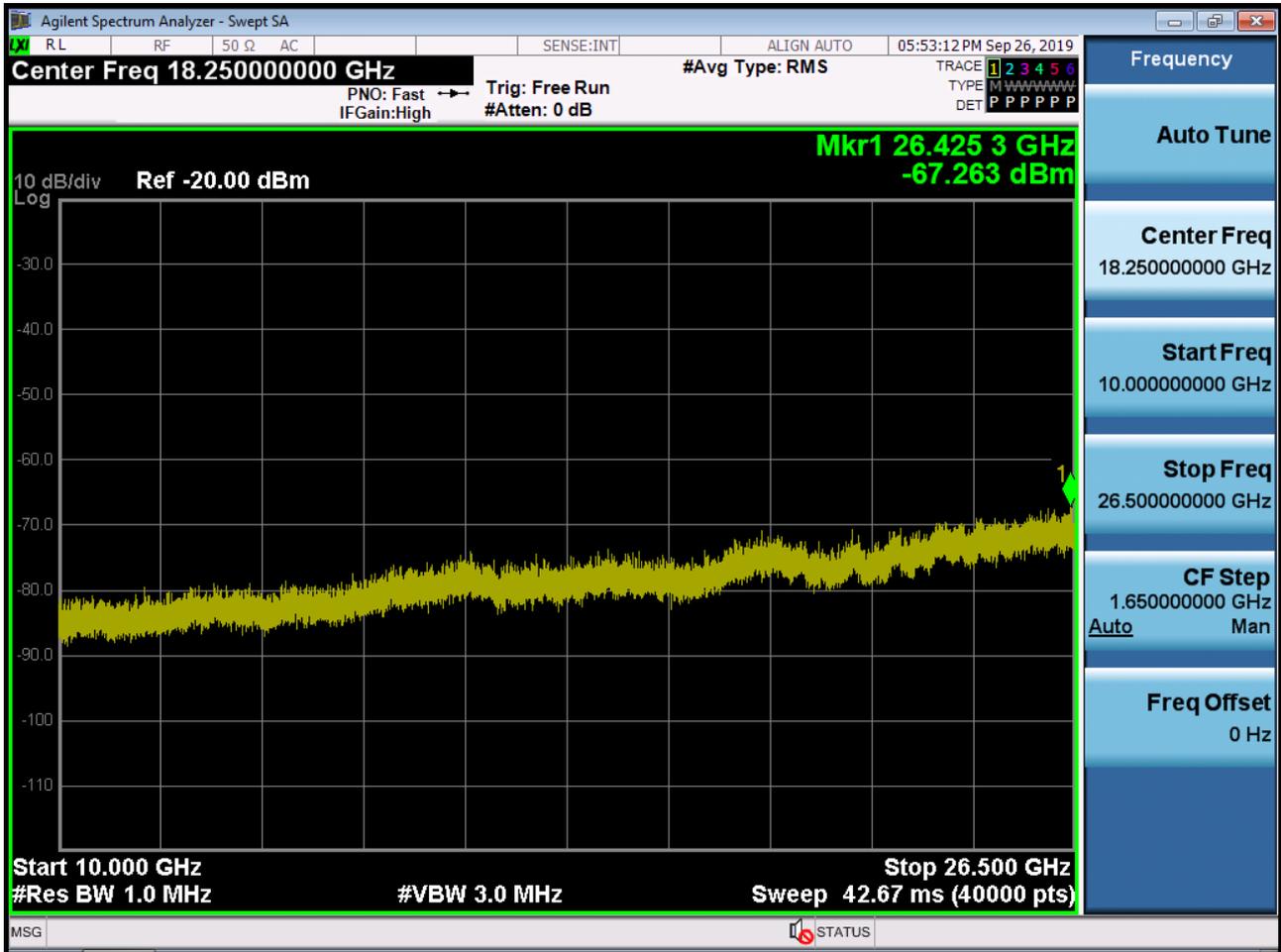
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PCC 20MHz Ch41391 RB100 Offset0, SCC 10MHz Ch41535 RB50 Offset0



PCC 20MHz Ch41440 RB1 Offset0, SCC 5MHz Ch41557 RB1 Offset24

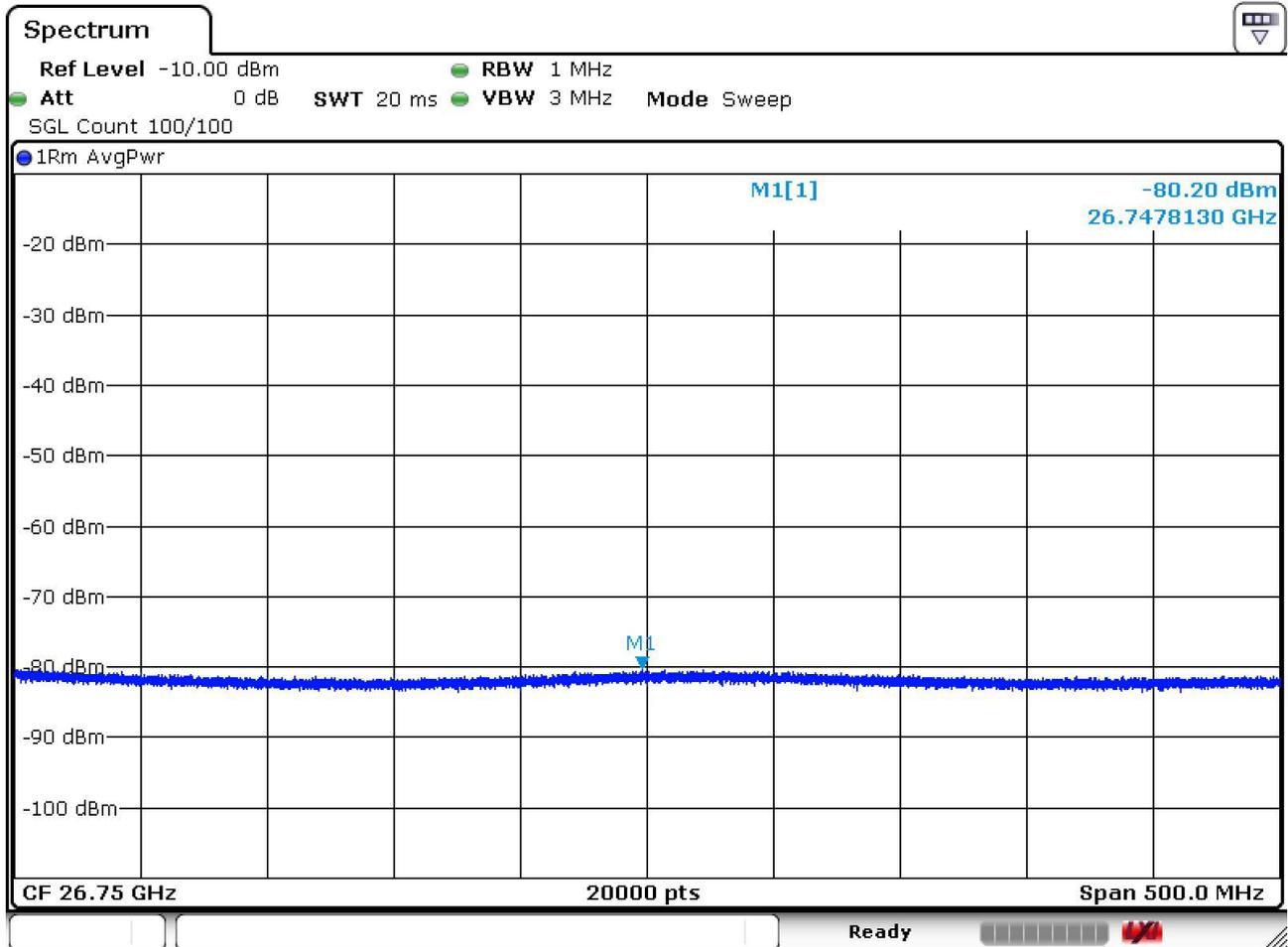


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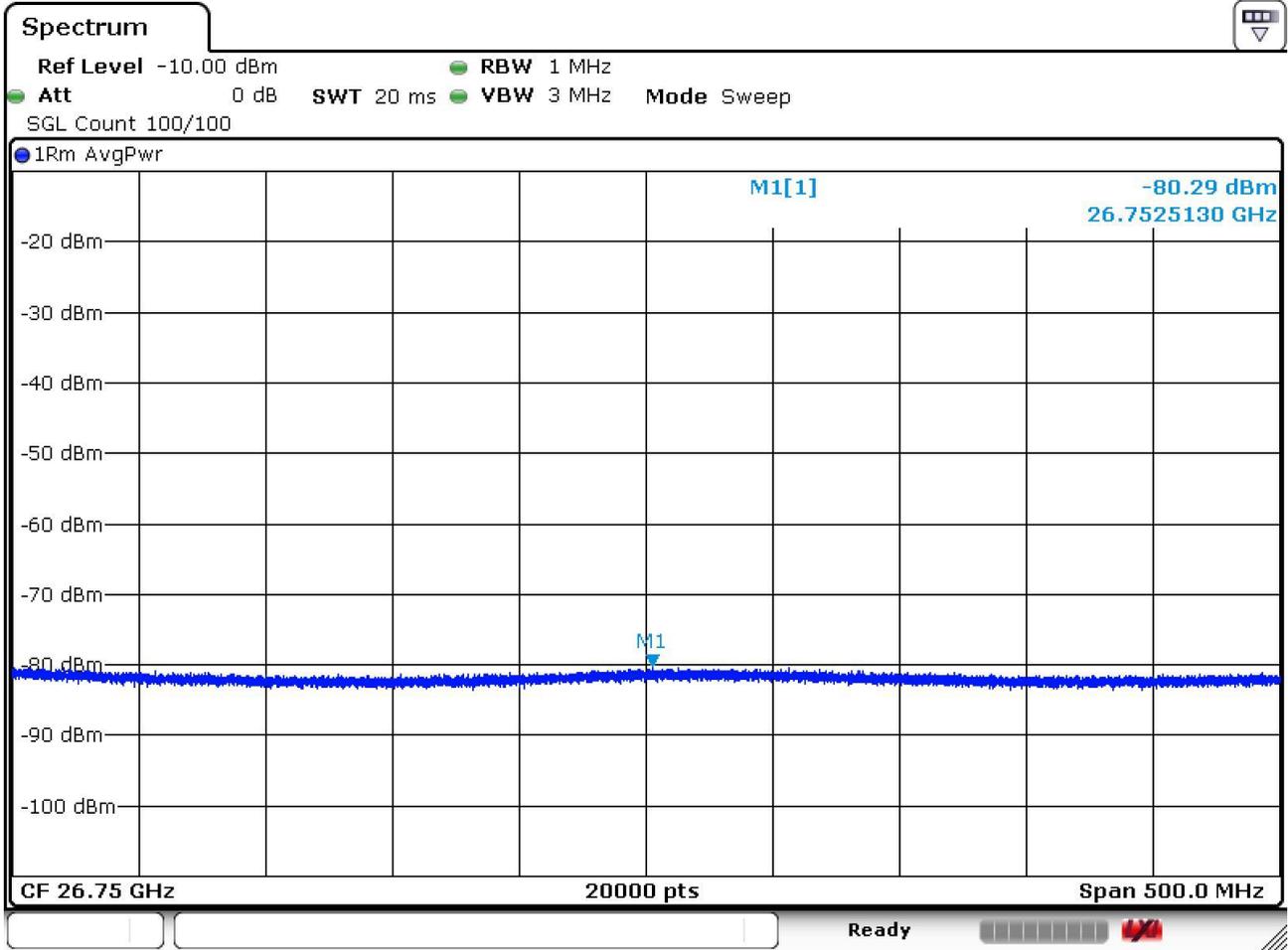


Frequency Range : 26.5GHz ~ 27.0GHz

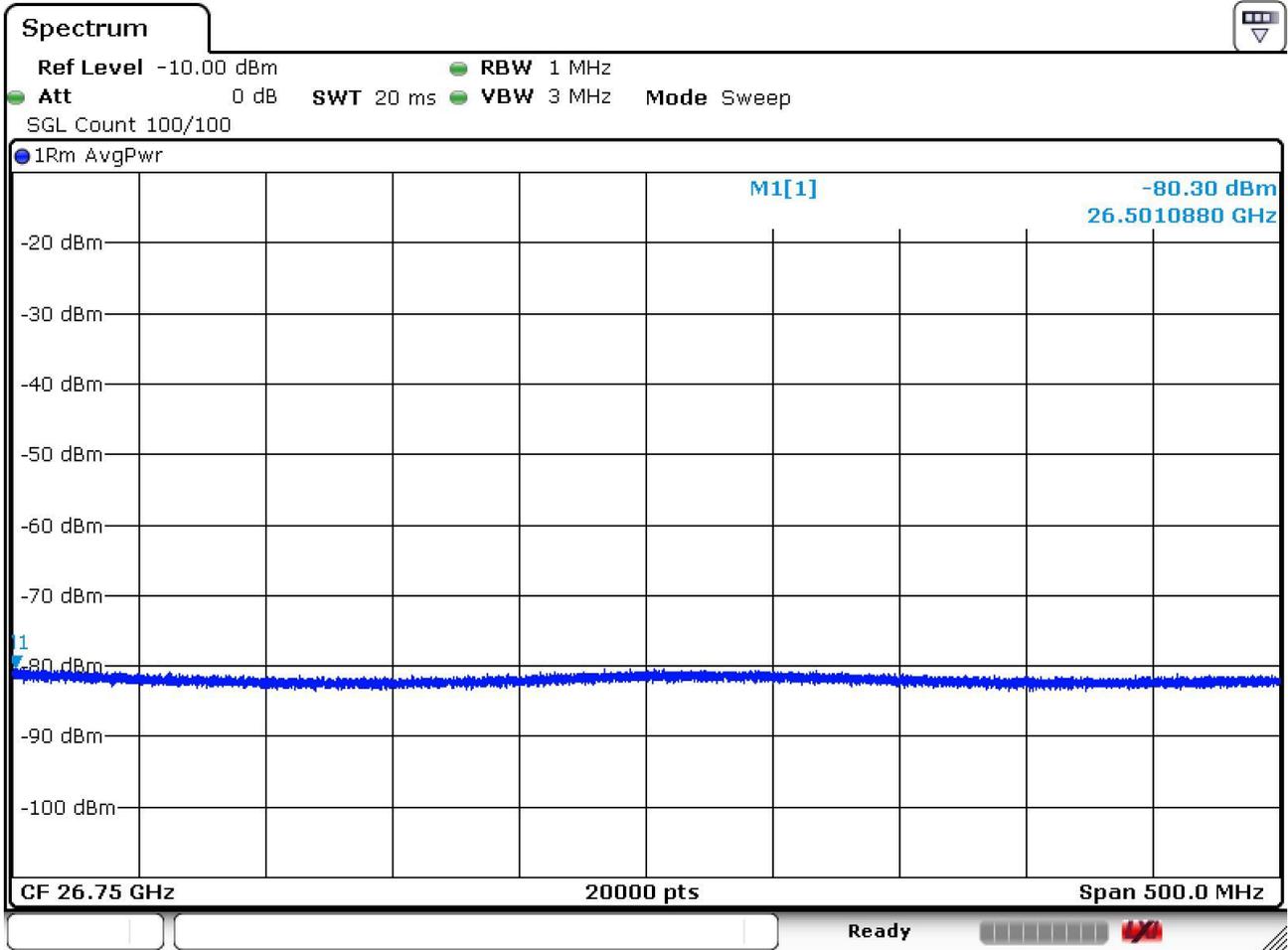
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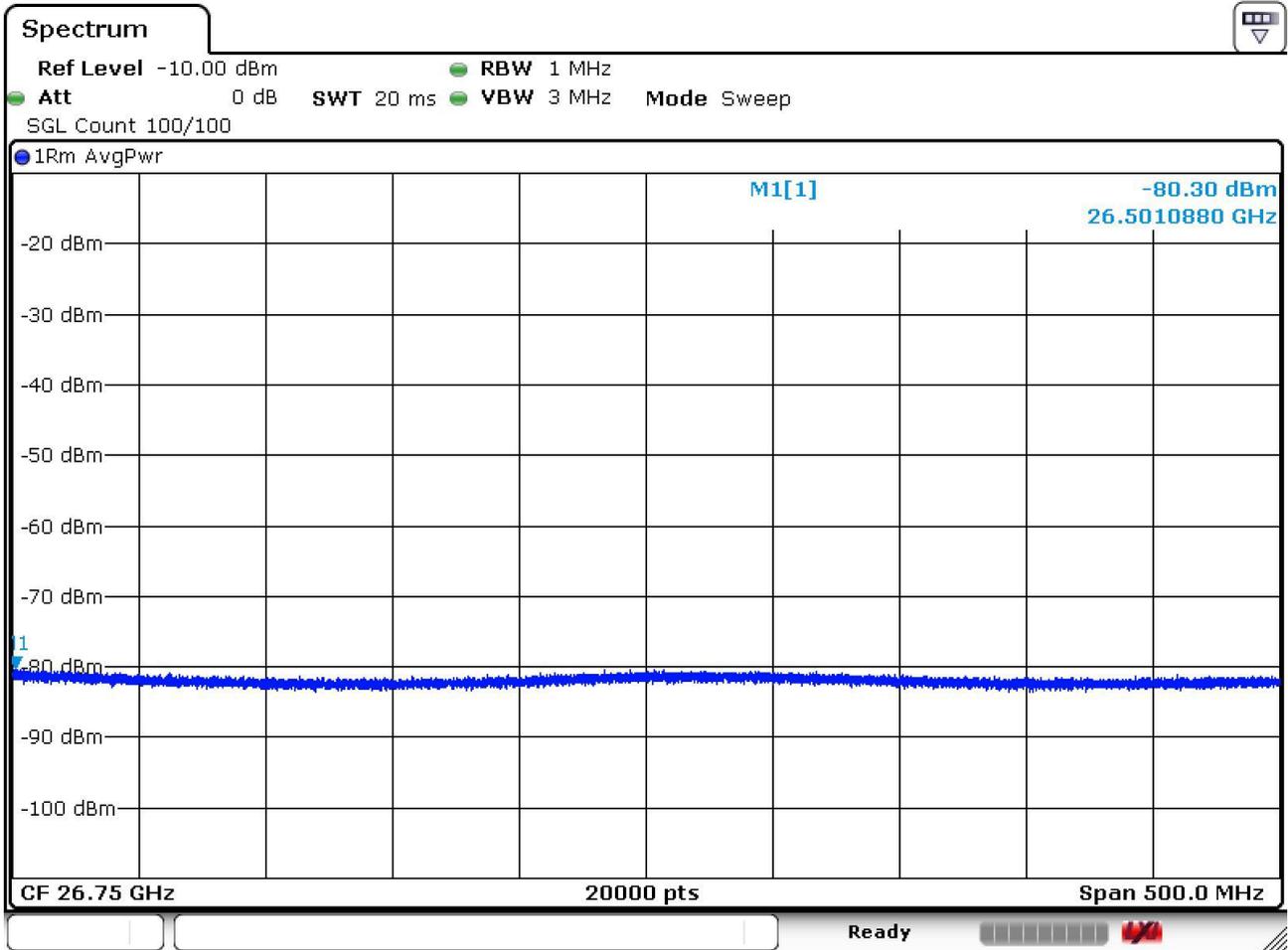
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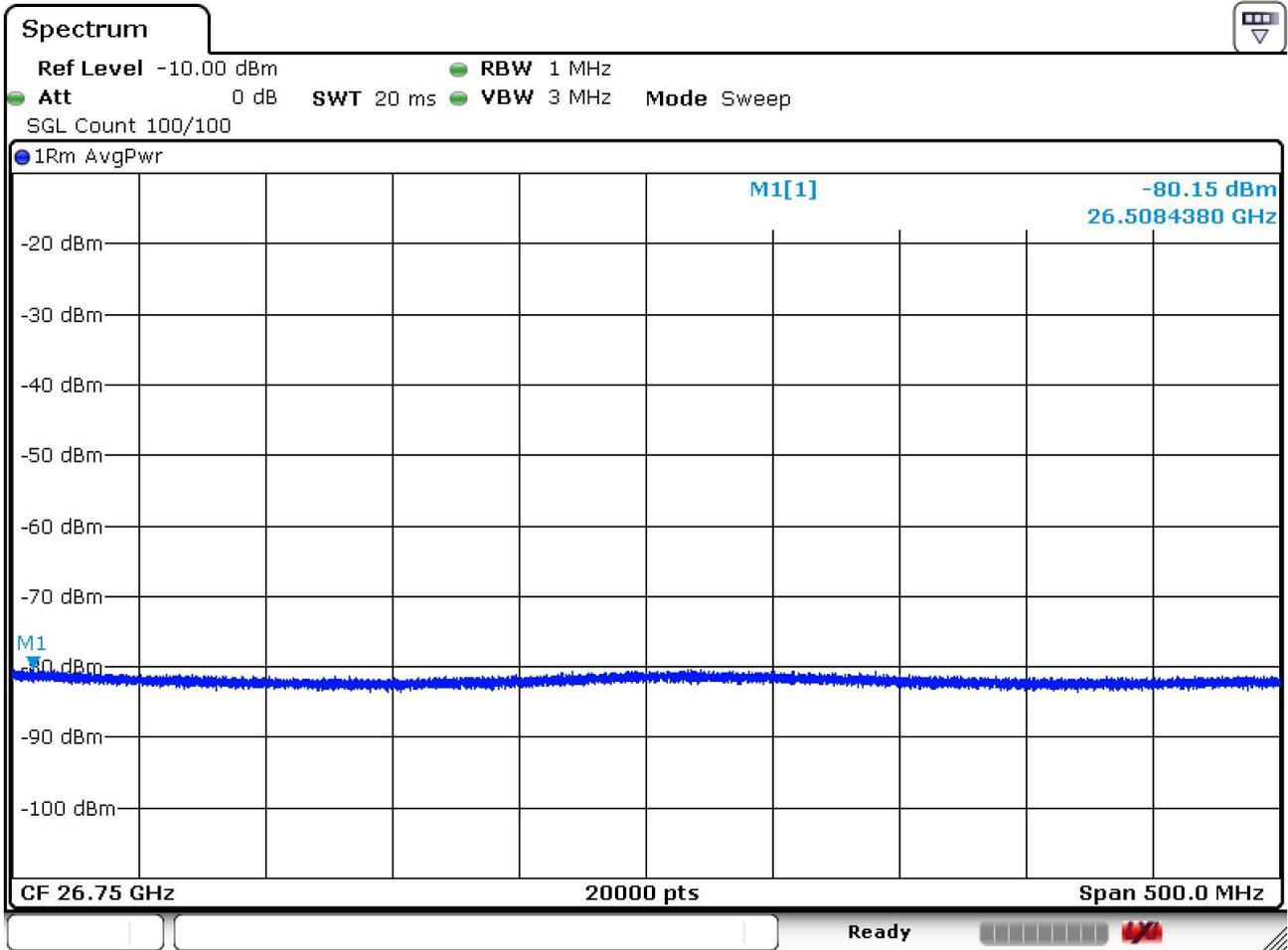
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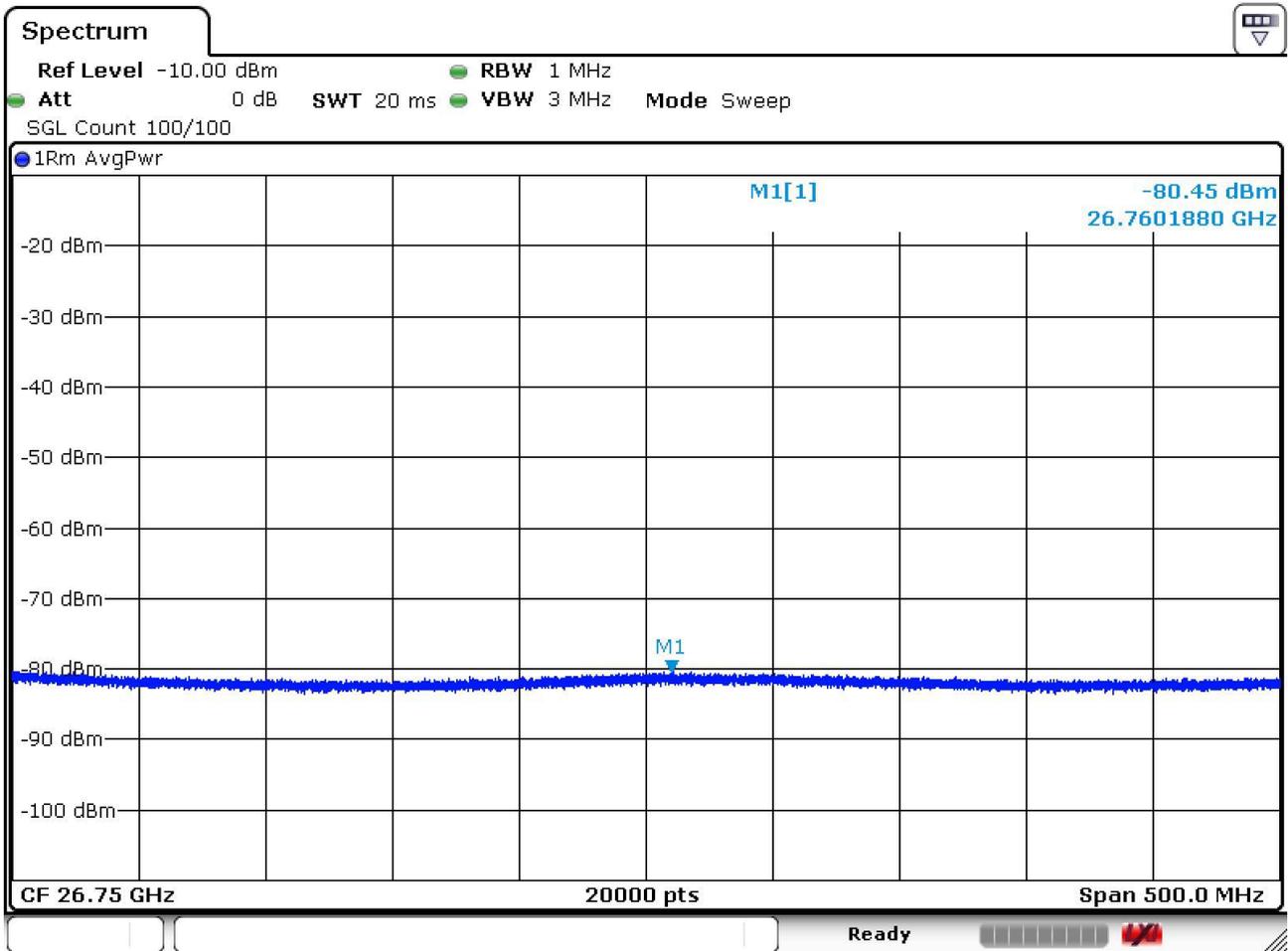
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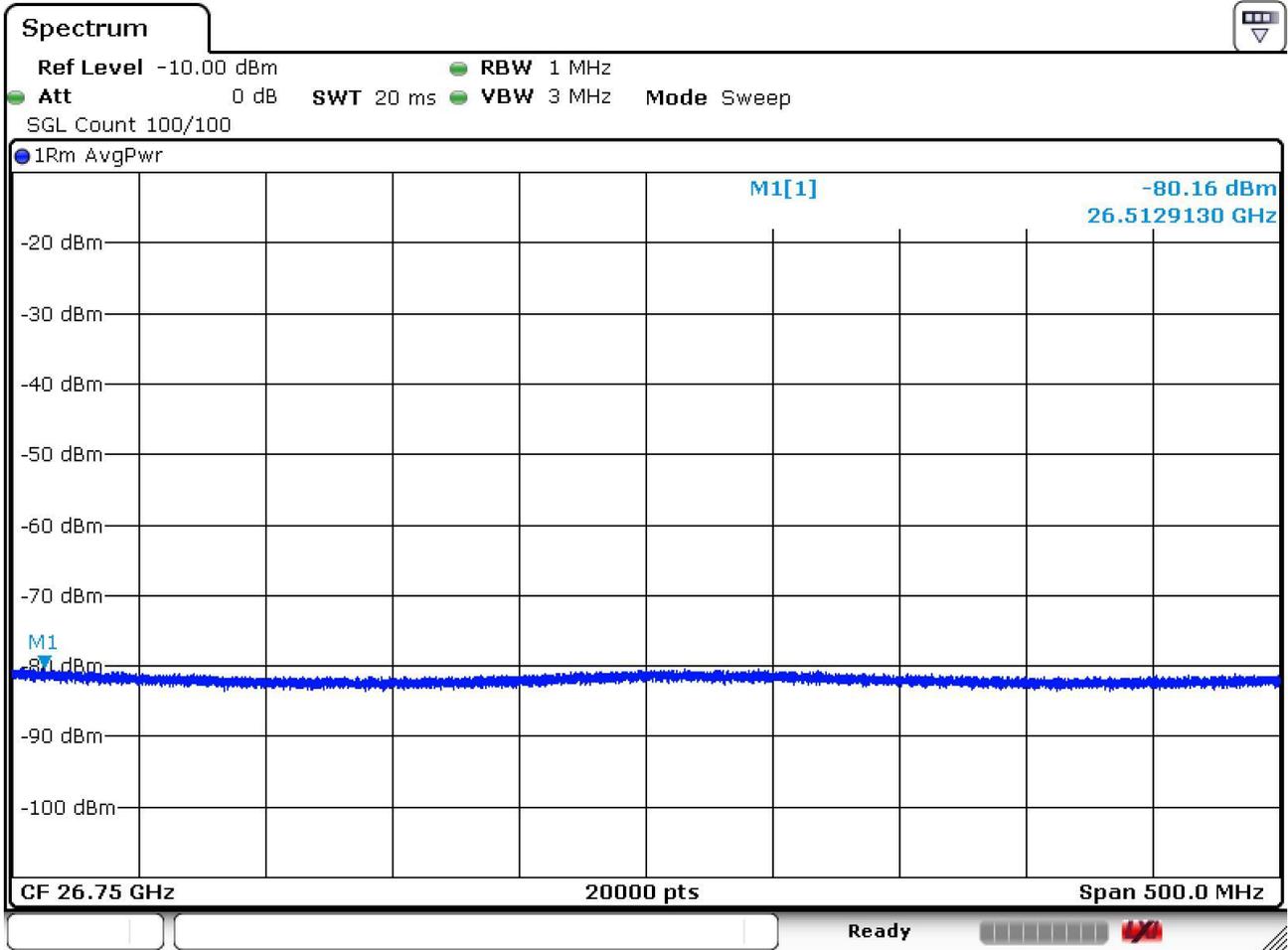
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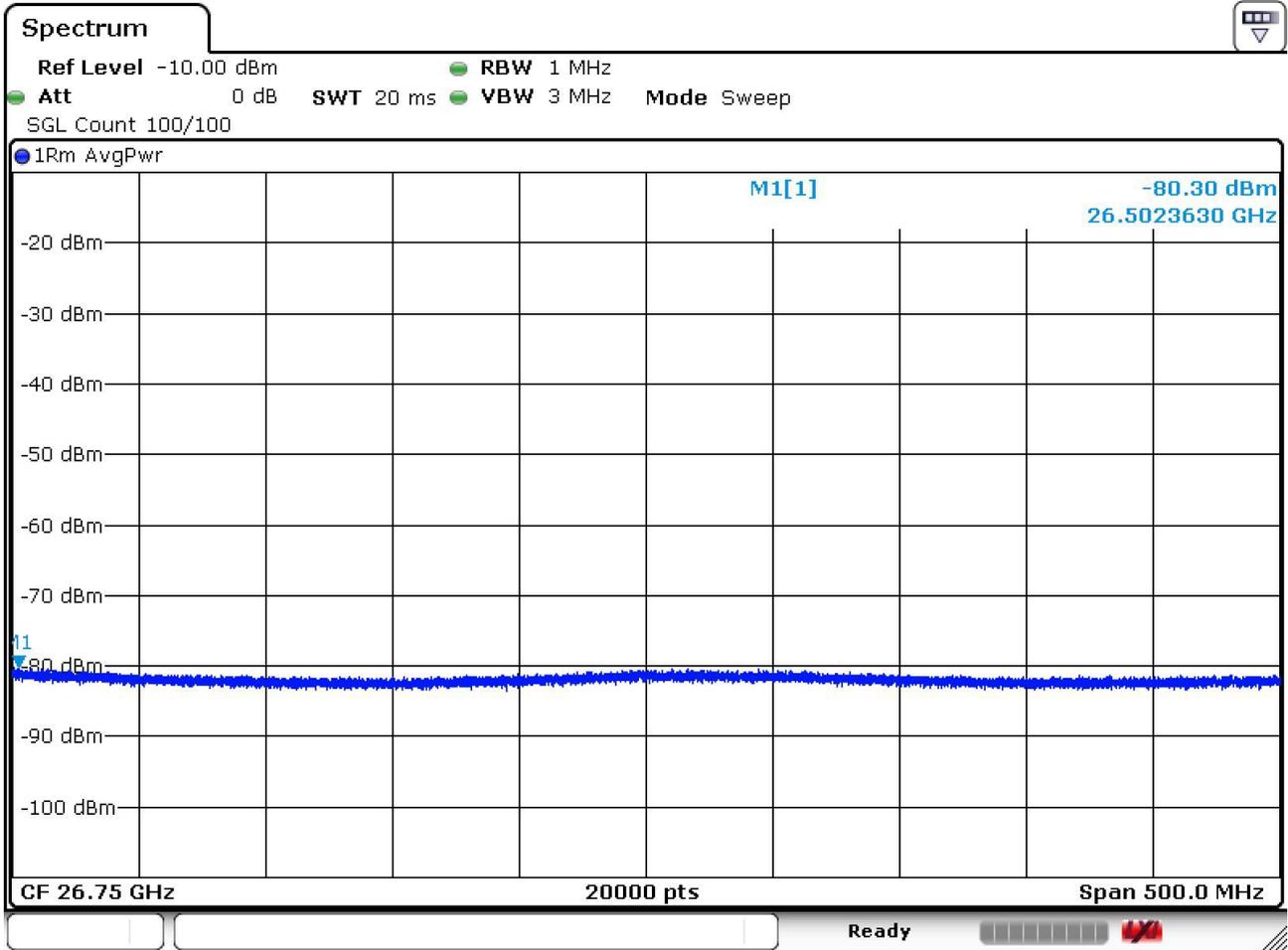
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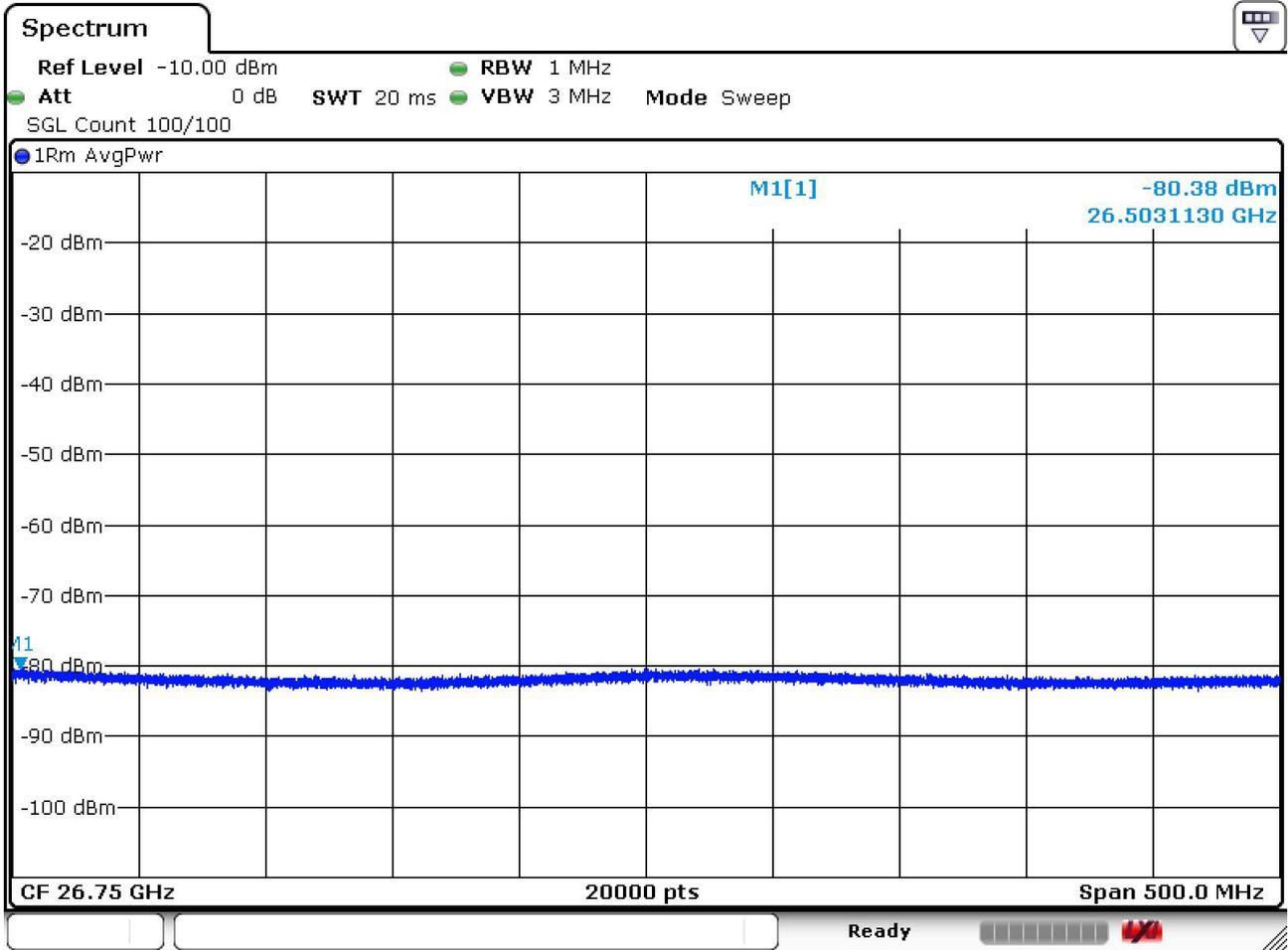
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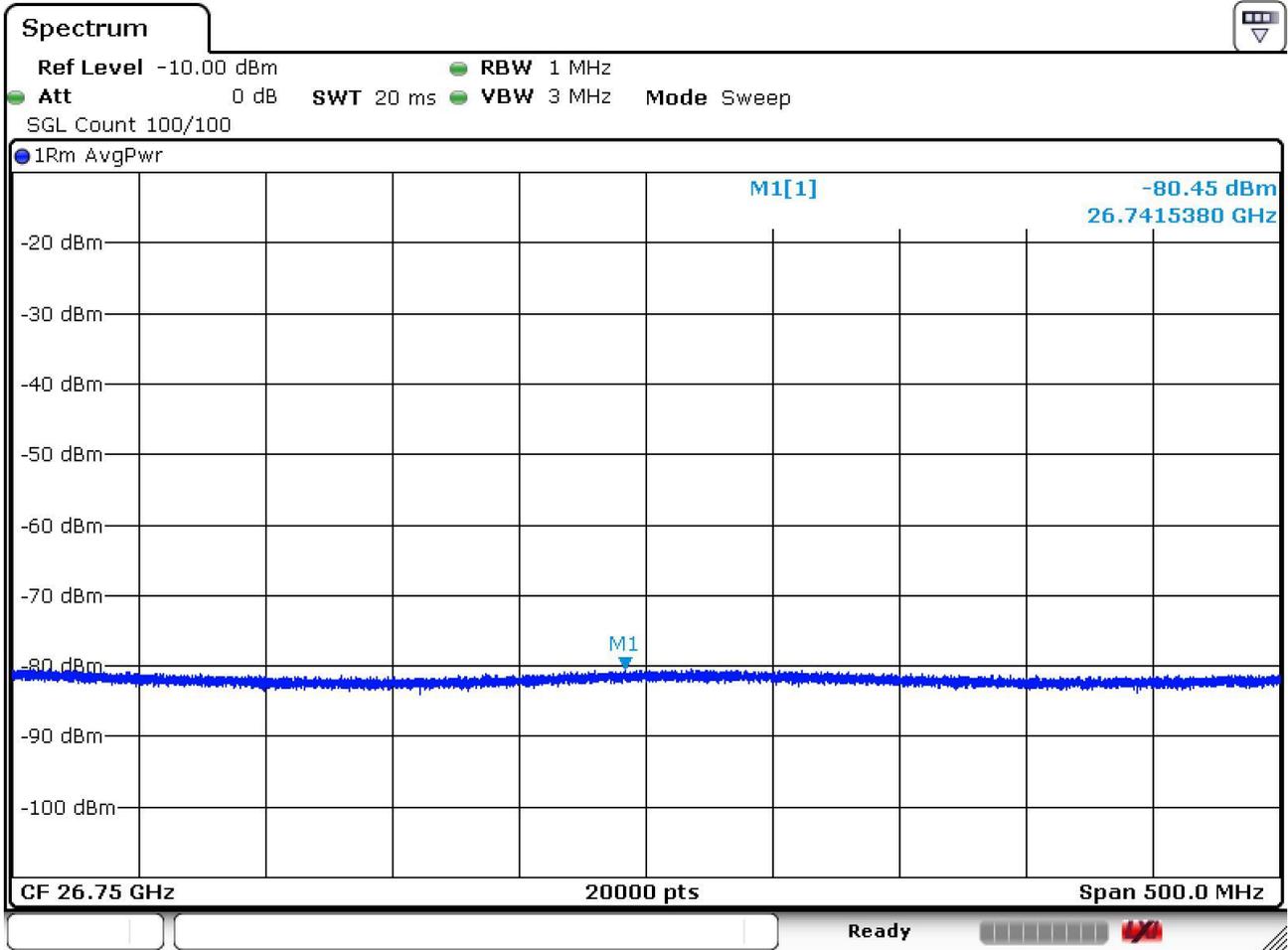
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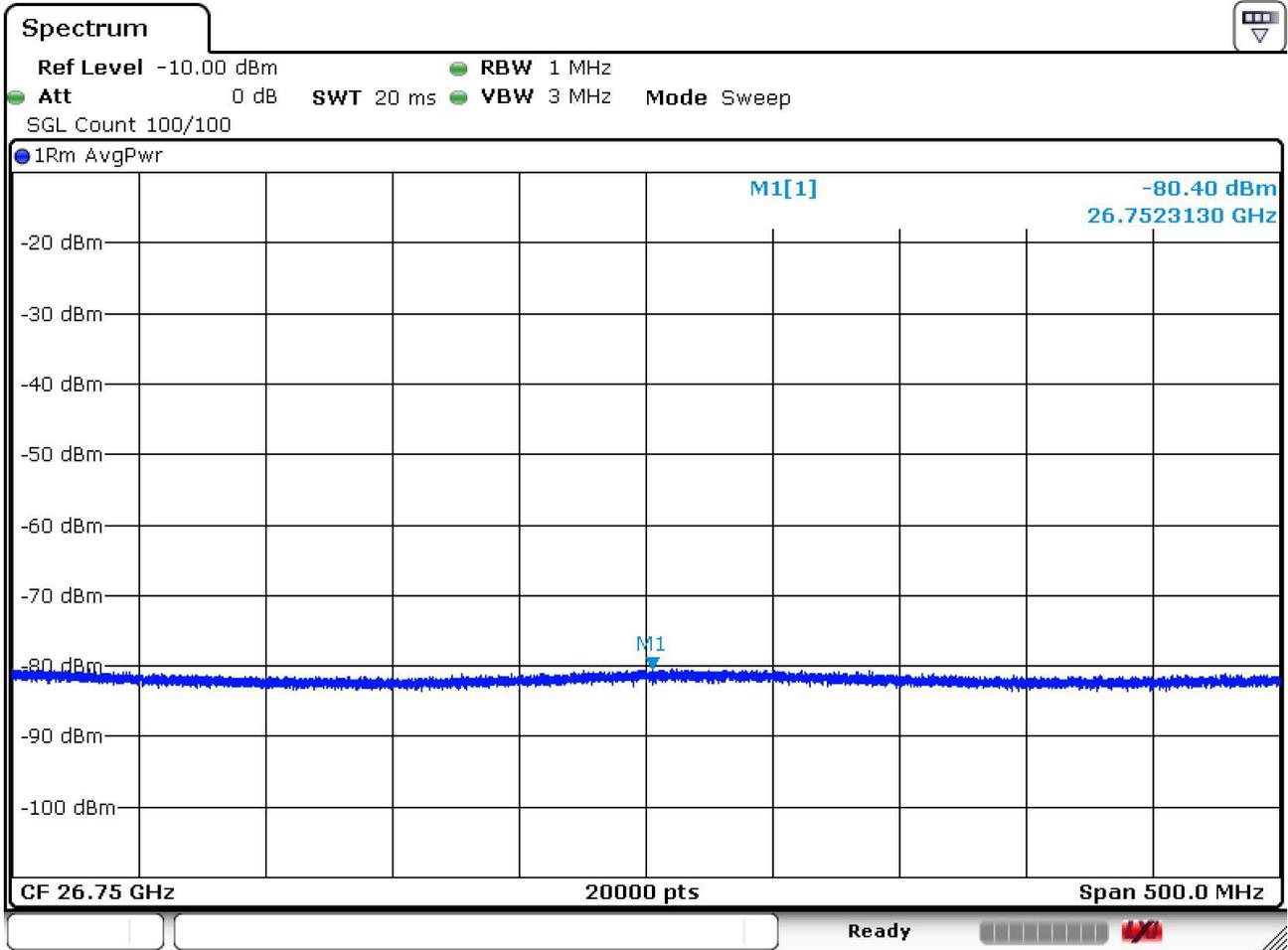
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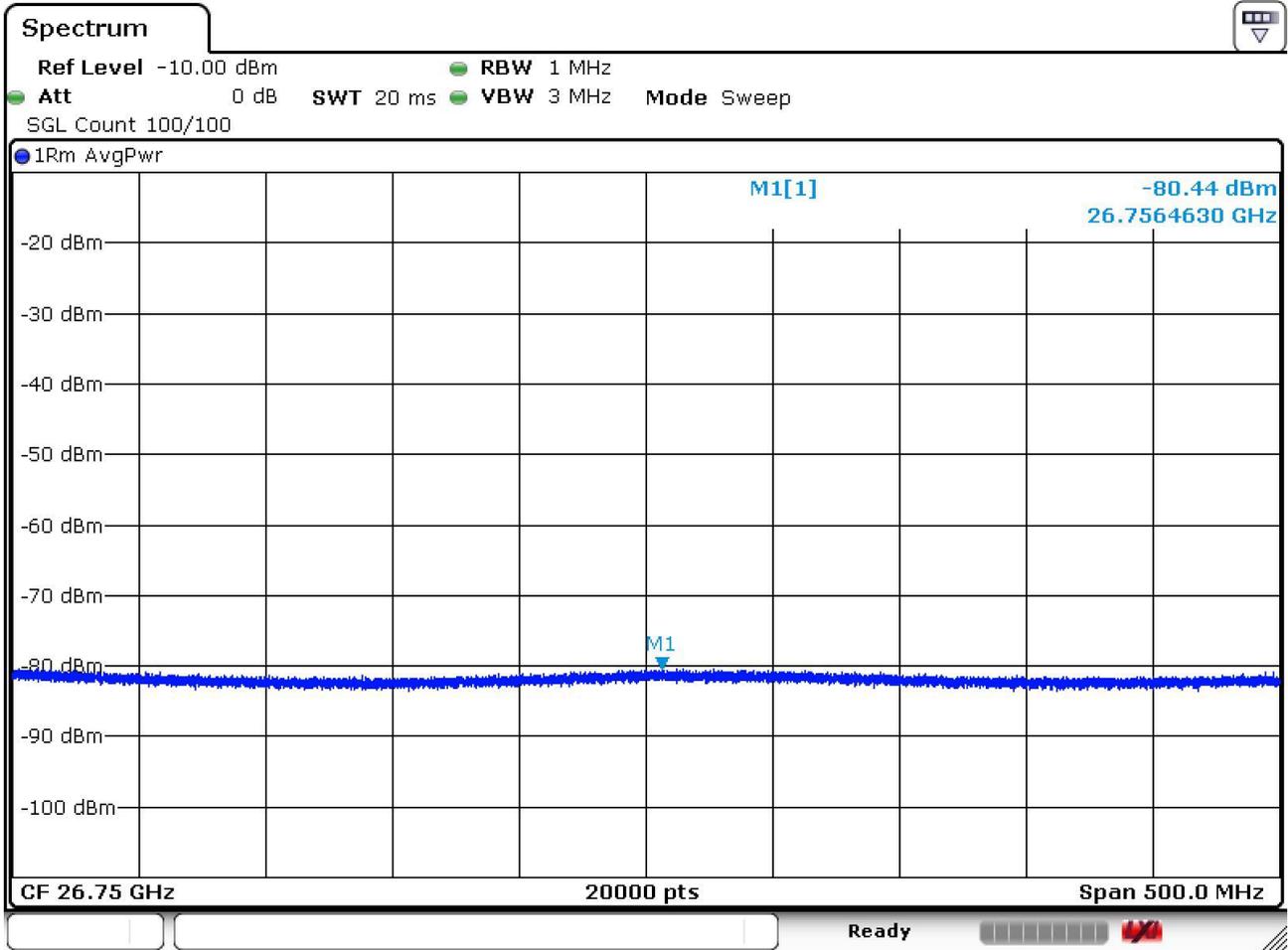
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PCC 20MHz Ch41440 RB1 Offset0, SCC 5MHz Ch41557 RB1 Offset24

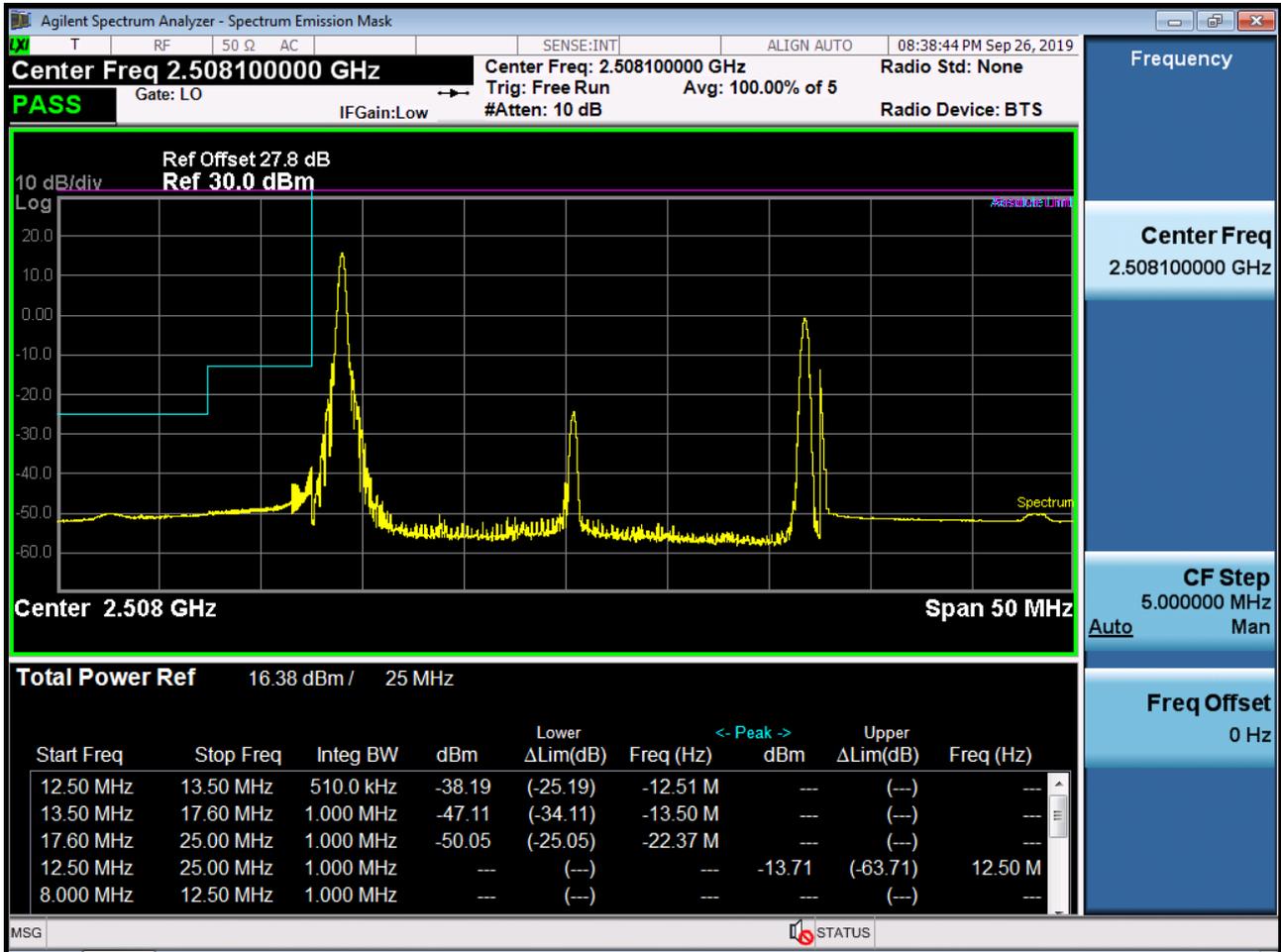


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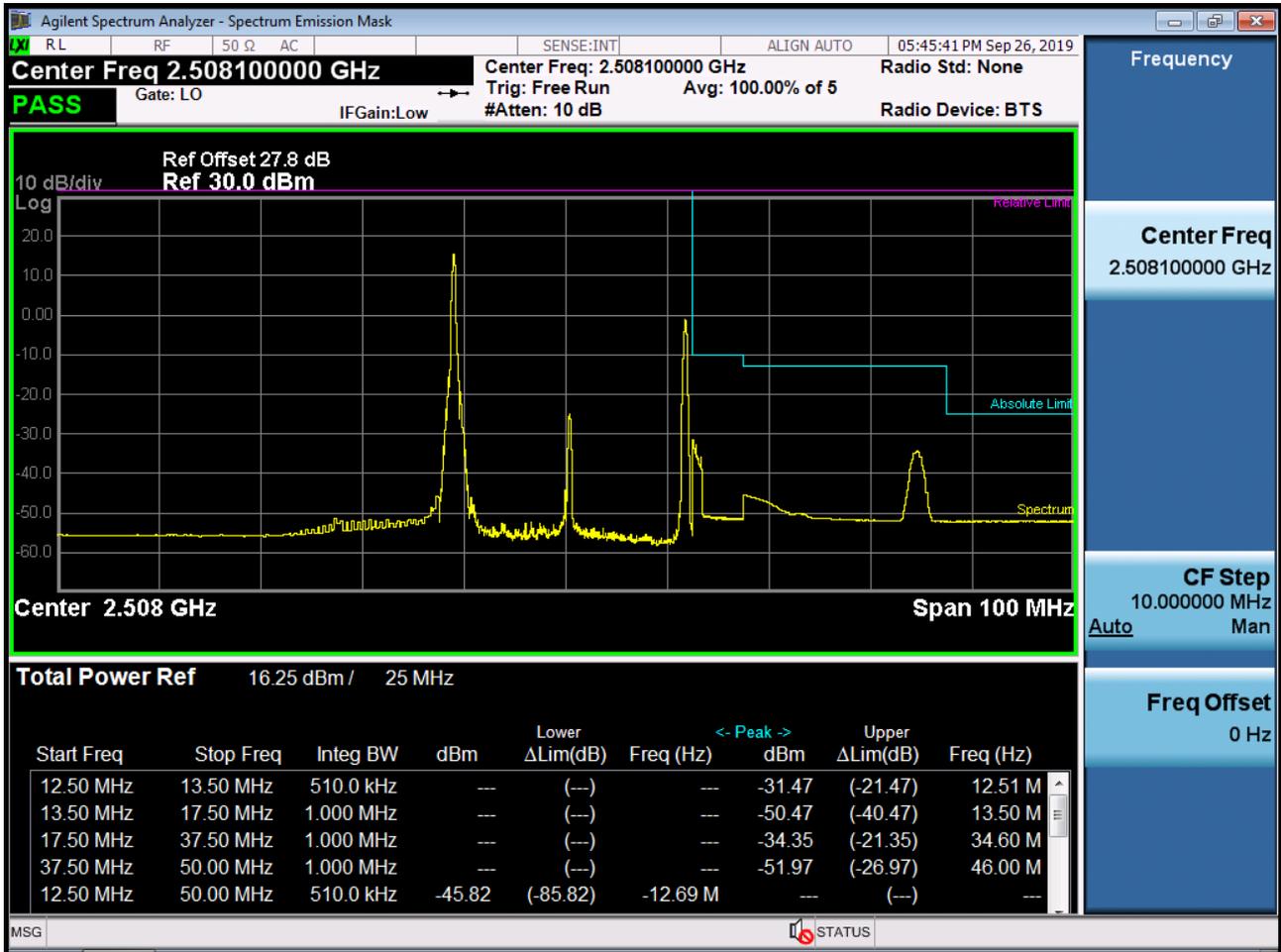


8.4 Channel Edge

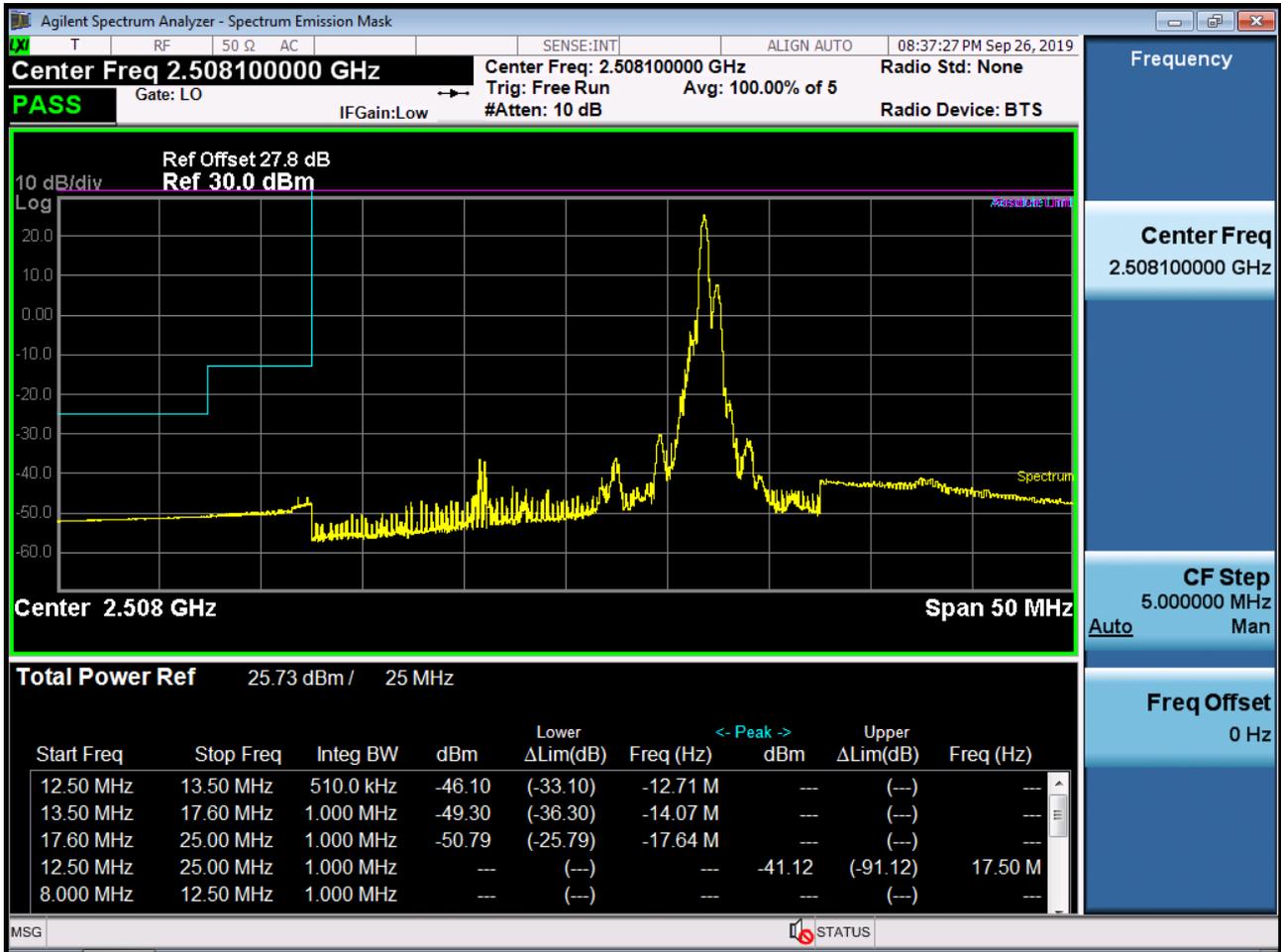
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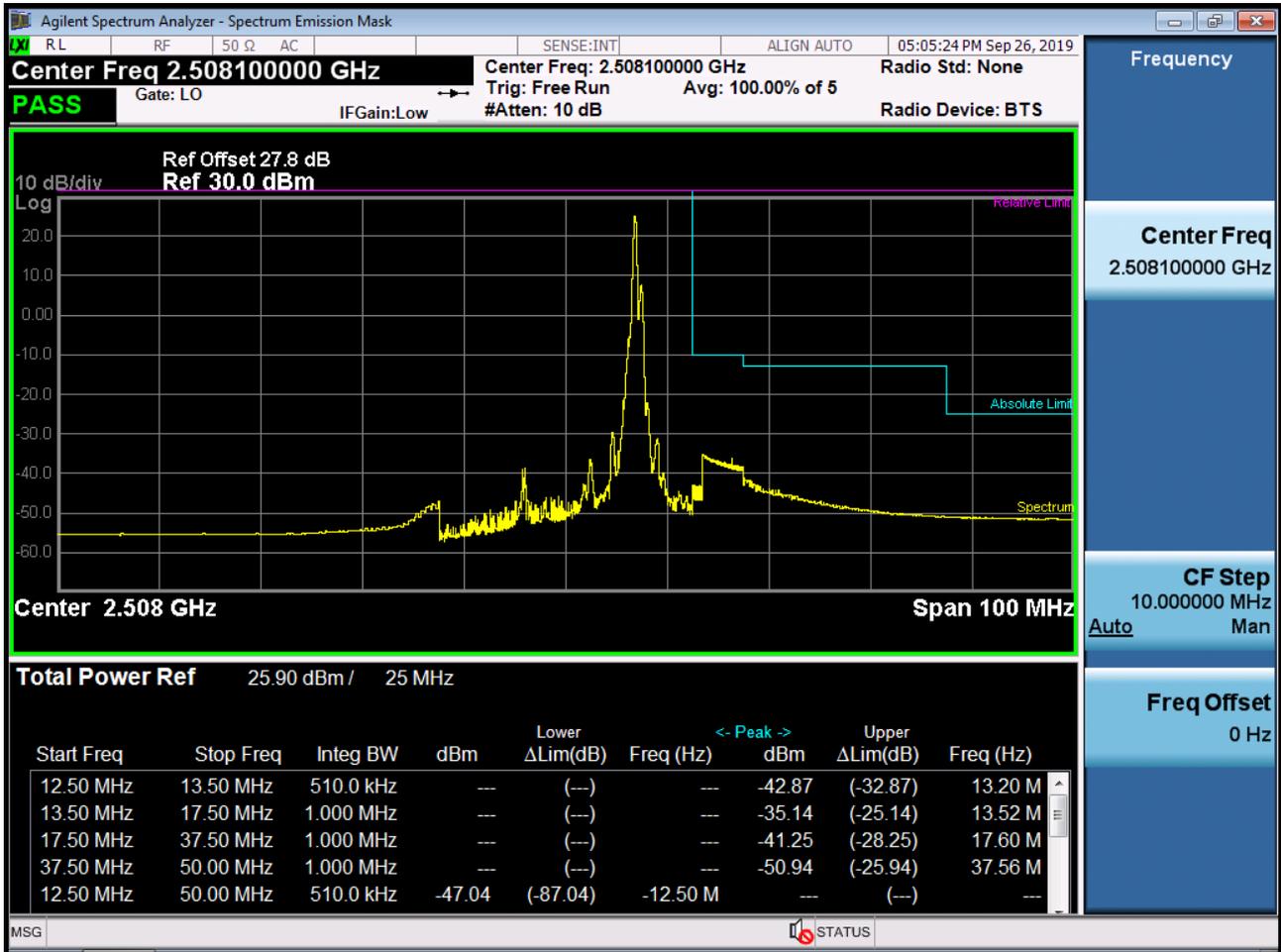
PCC 20MHz Ch39750 RB1 Offset0, SCC 5MHz Ch39867 RB1 Offset24-2



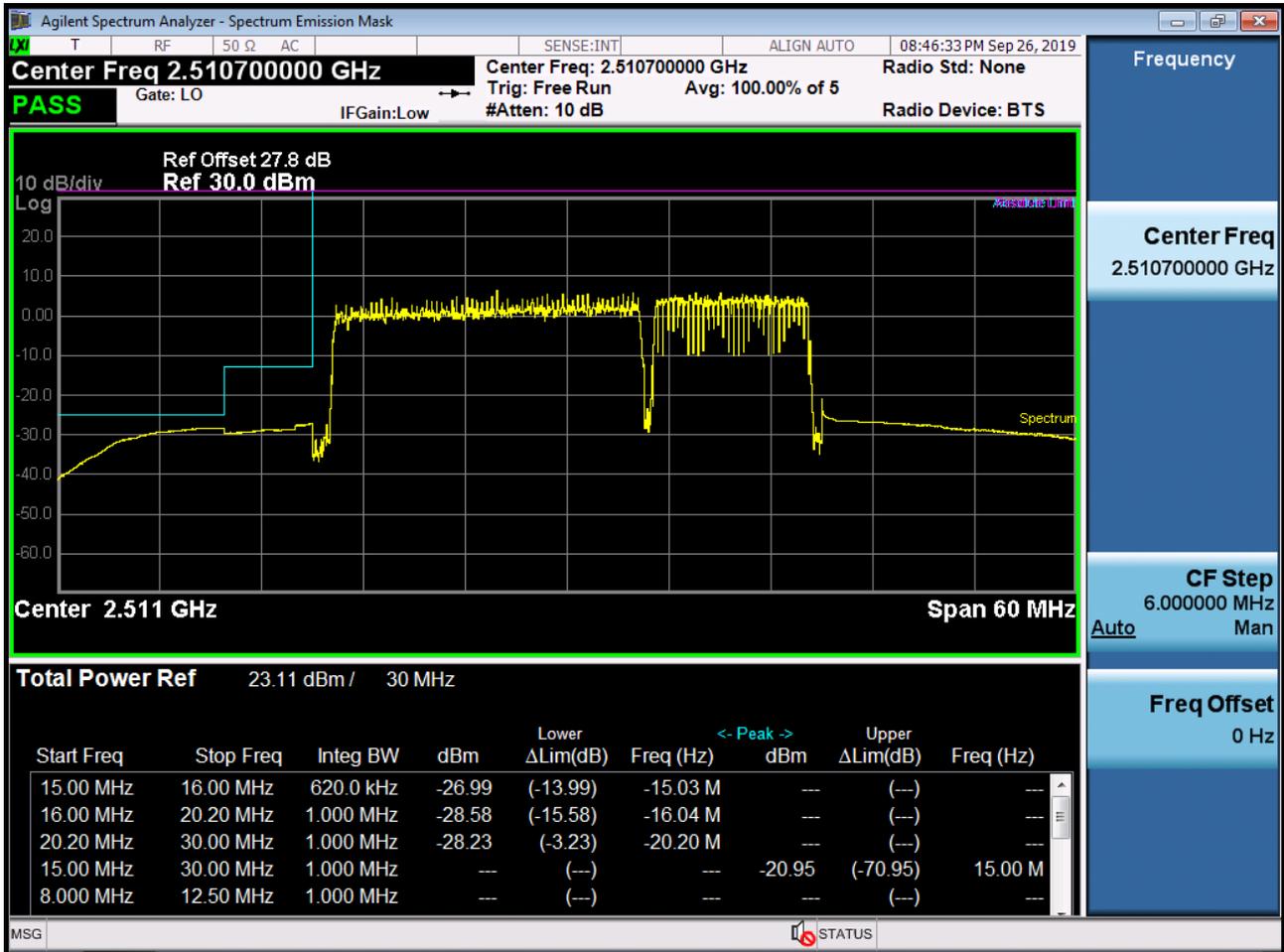
PCC 20MHz Ch39750 RB1 Offset99, SCC 5MHz Ch39867 RB1 Offset0-1



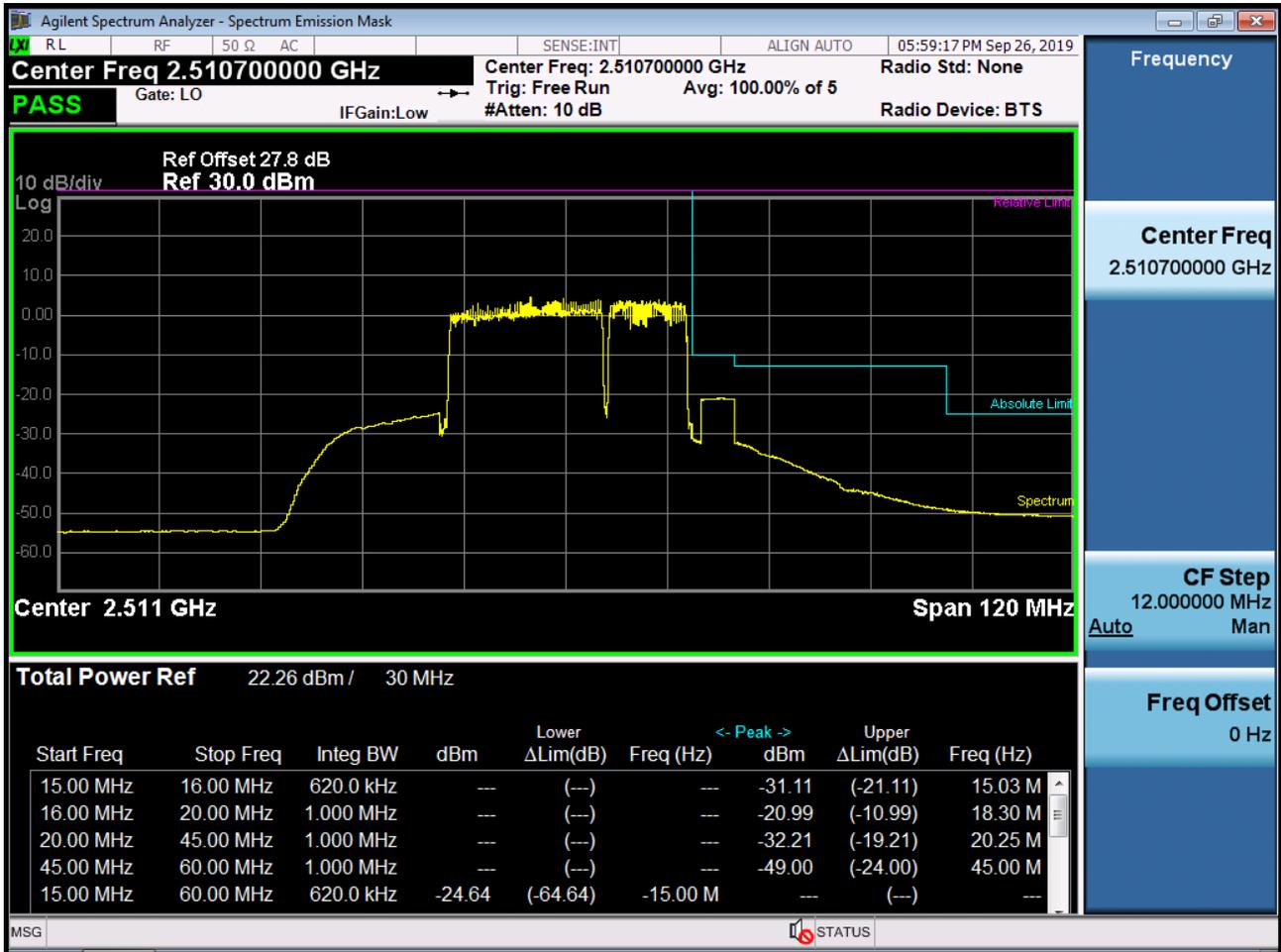
PCC 20MHz Ch39750 RB1 Offset99, SCC 5MHz Ch39867 RB1 Offset0-2



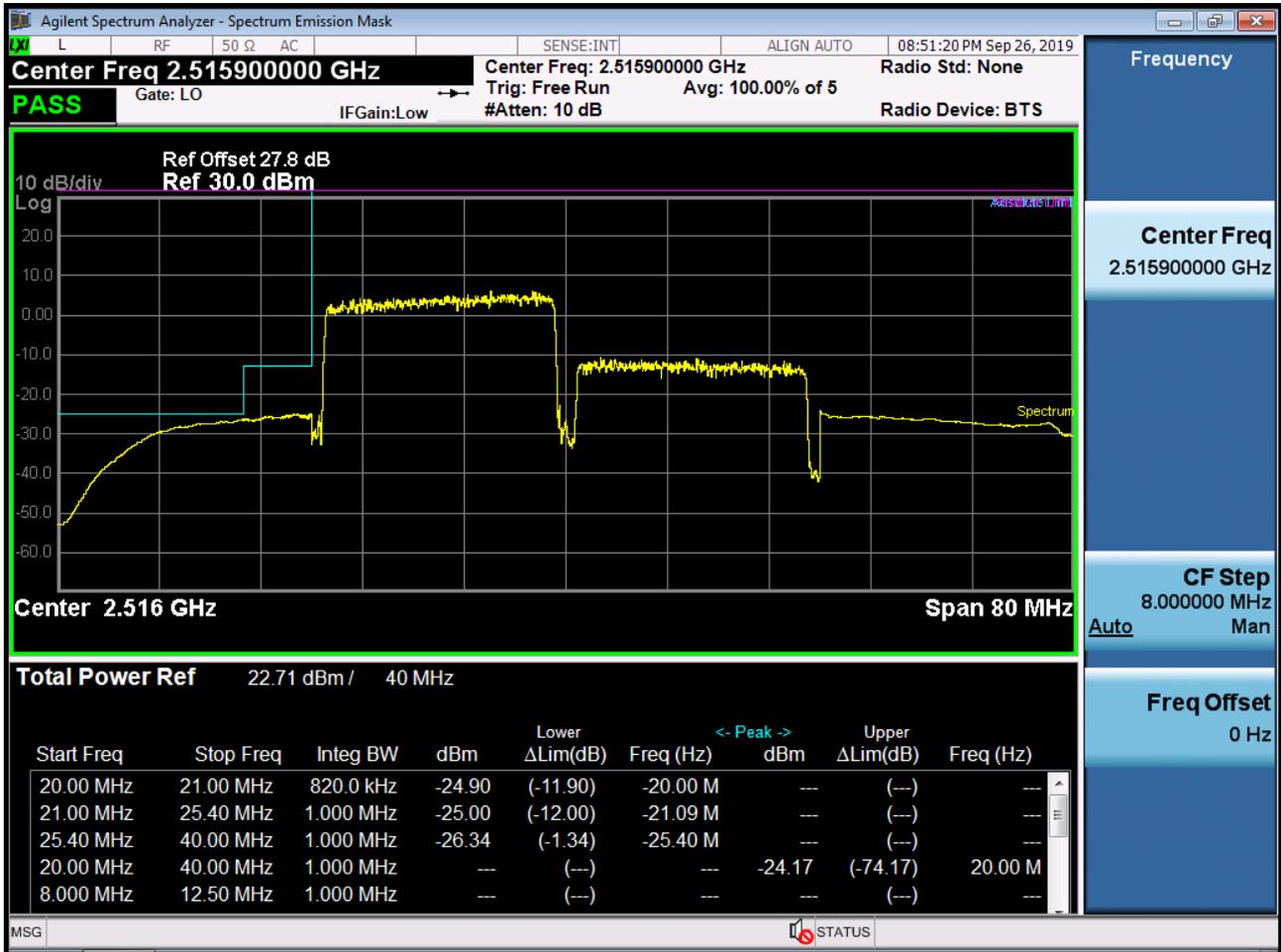
PCC 20MHz Ch39750 RB100 Offset0, SCC 10MHz Ch39894 RB50 Offset0-1



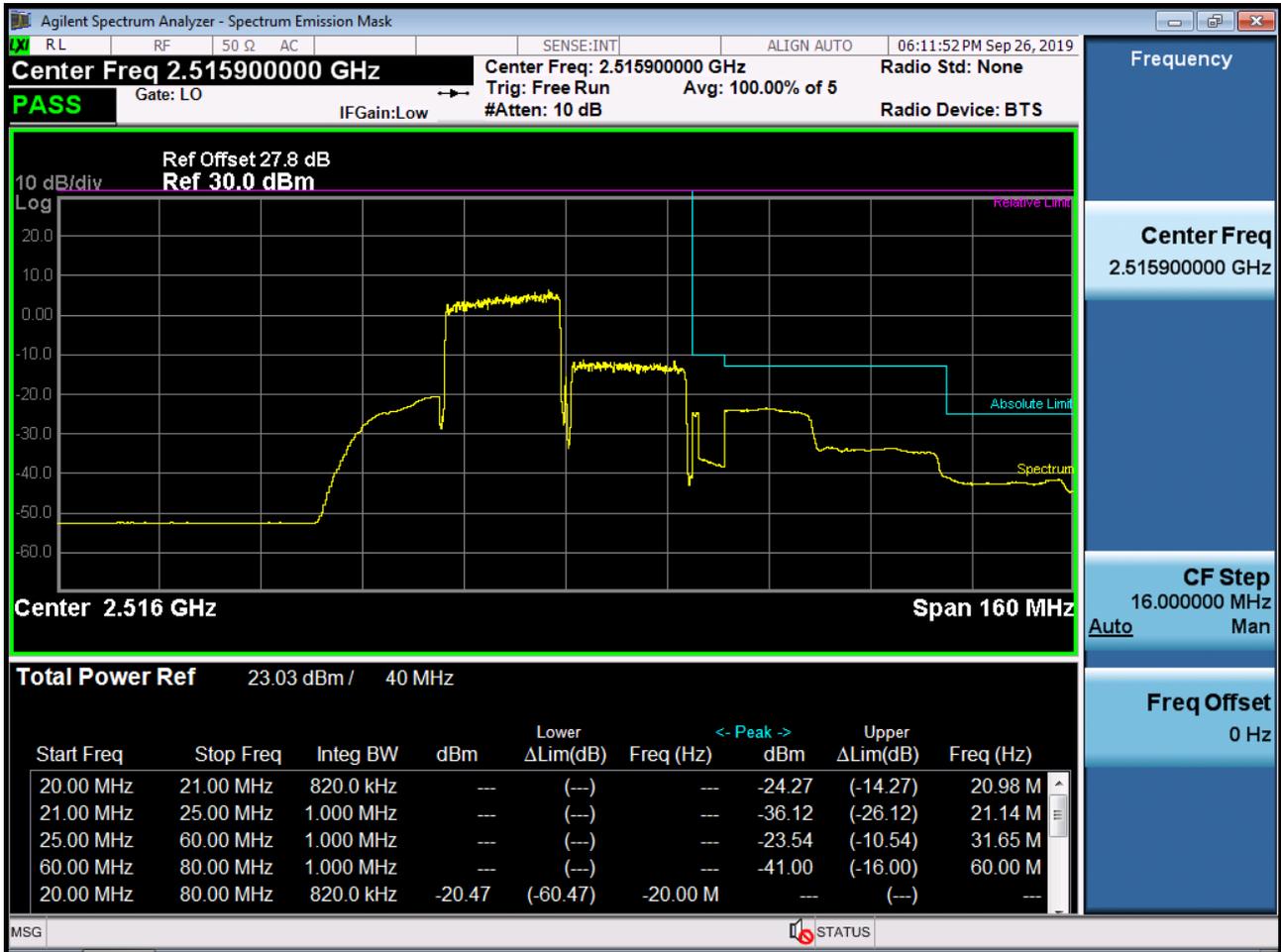
PCC 20MHz Ch39750 RB100 Offset0, SCC 10MHz Ch39894 RB50 Offset0-2



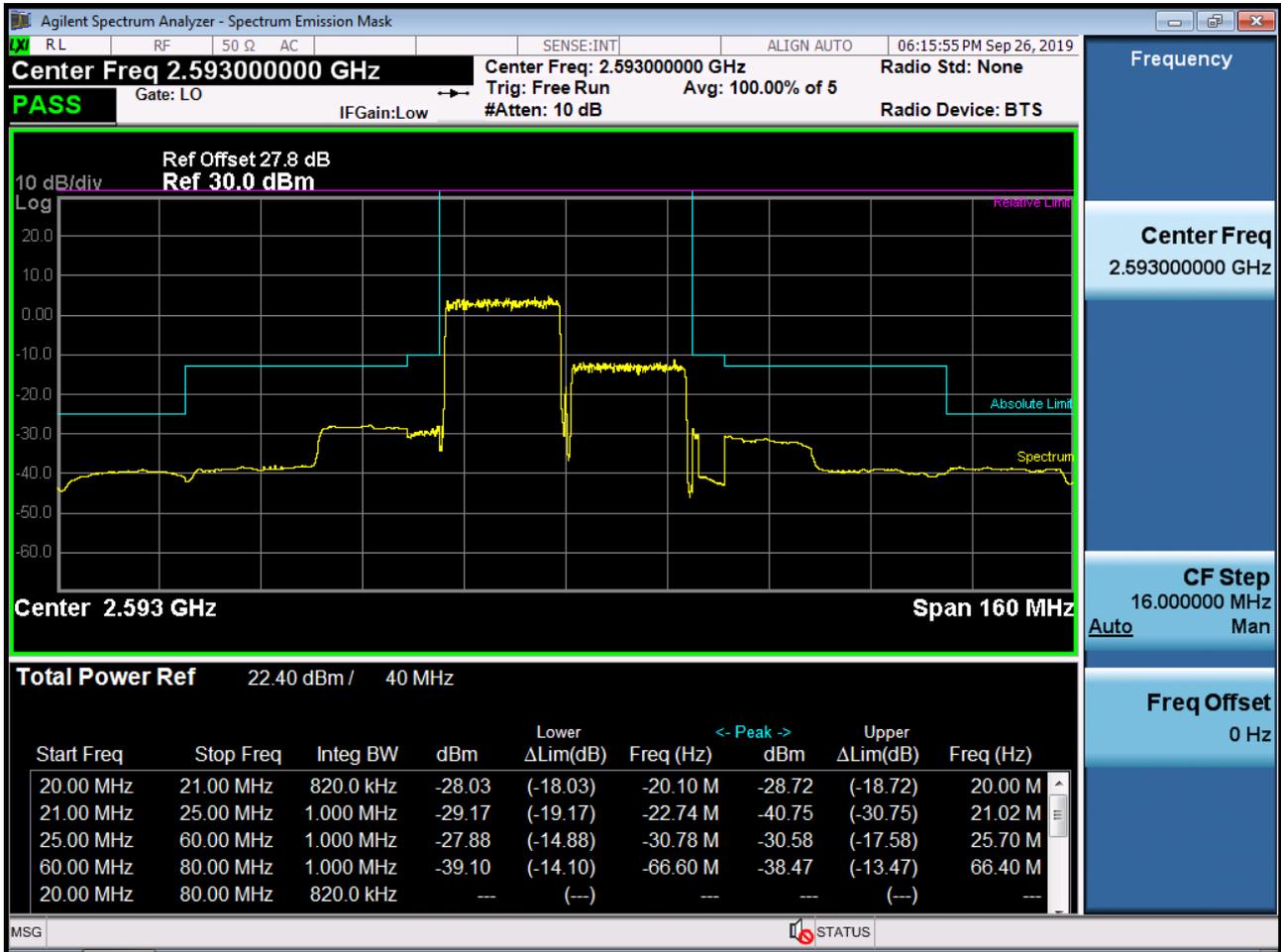
PCC 20MHz Ch39750 RB100 Offset0, SCC 20MHz Ch39948 RB100 Offset0-1



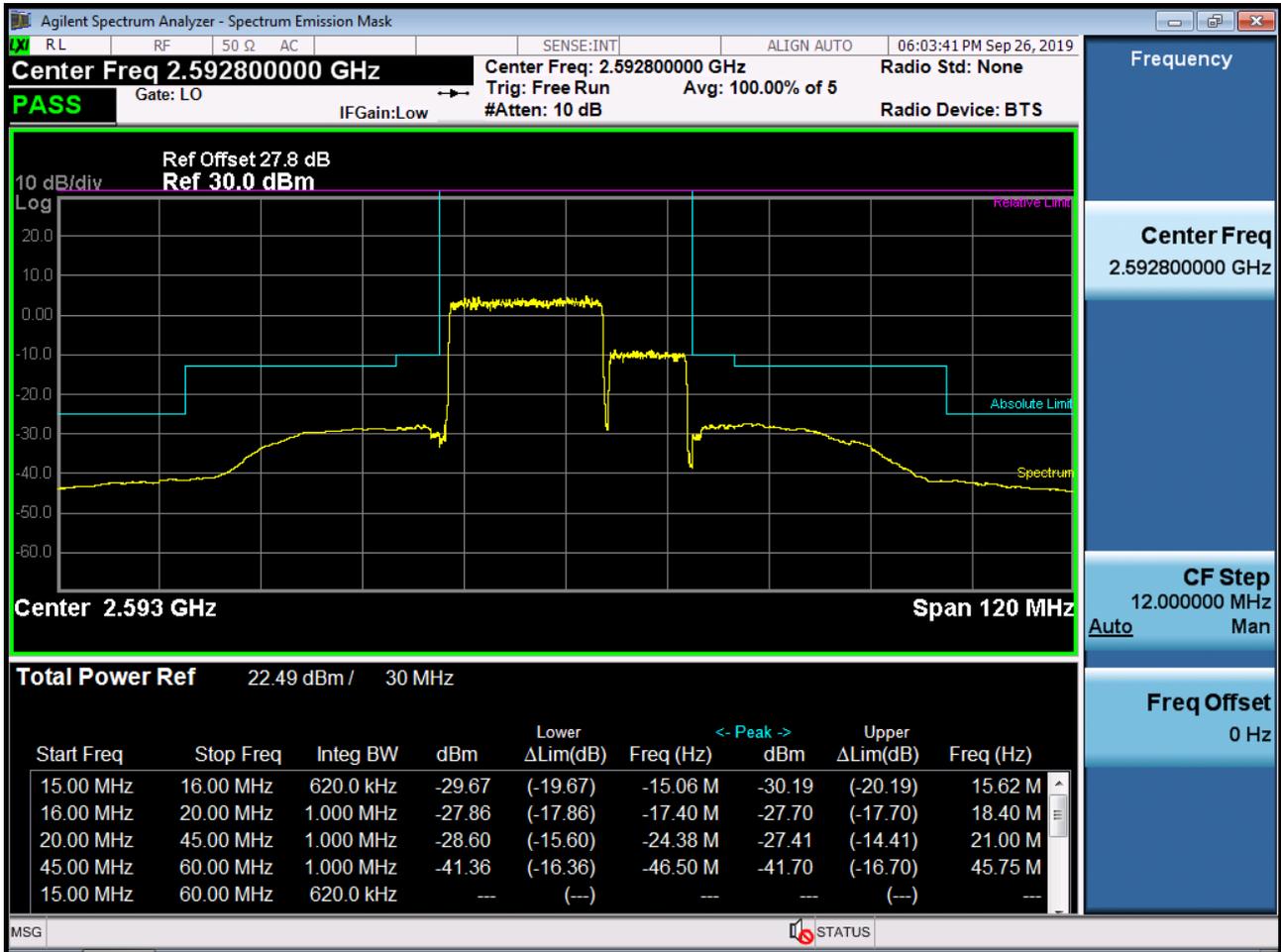
PCC 20MHz Ch39750 RB100 Offset0, SCC 20MHz Ch39948 RB100 Offset0-2



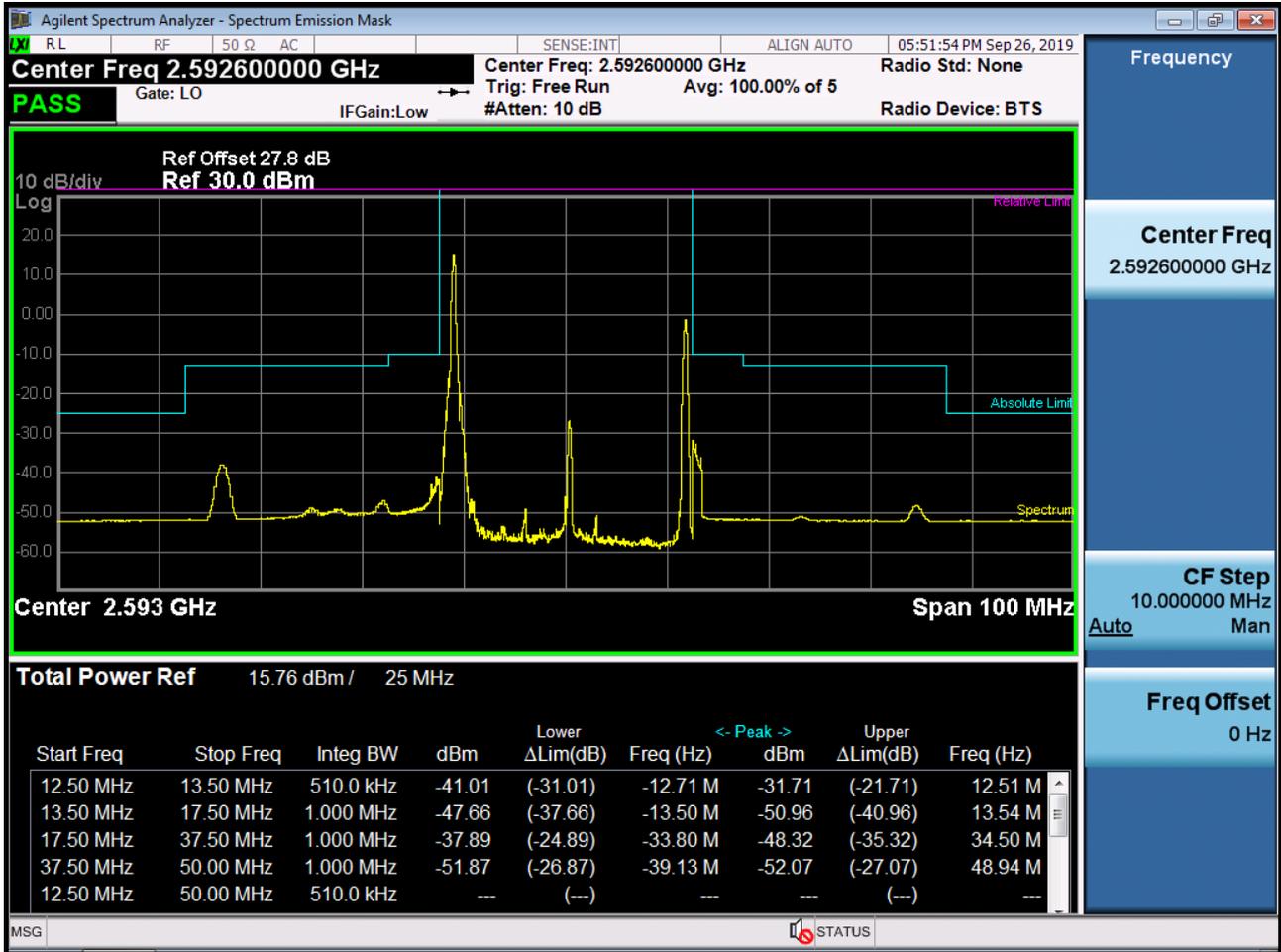
PCC 20MHz Ch40521 RB100 Offset0, SCC 20MHz Ch40719 RB100 Offset0



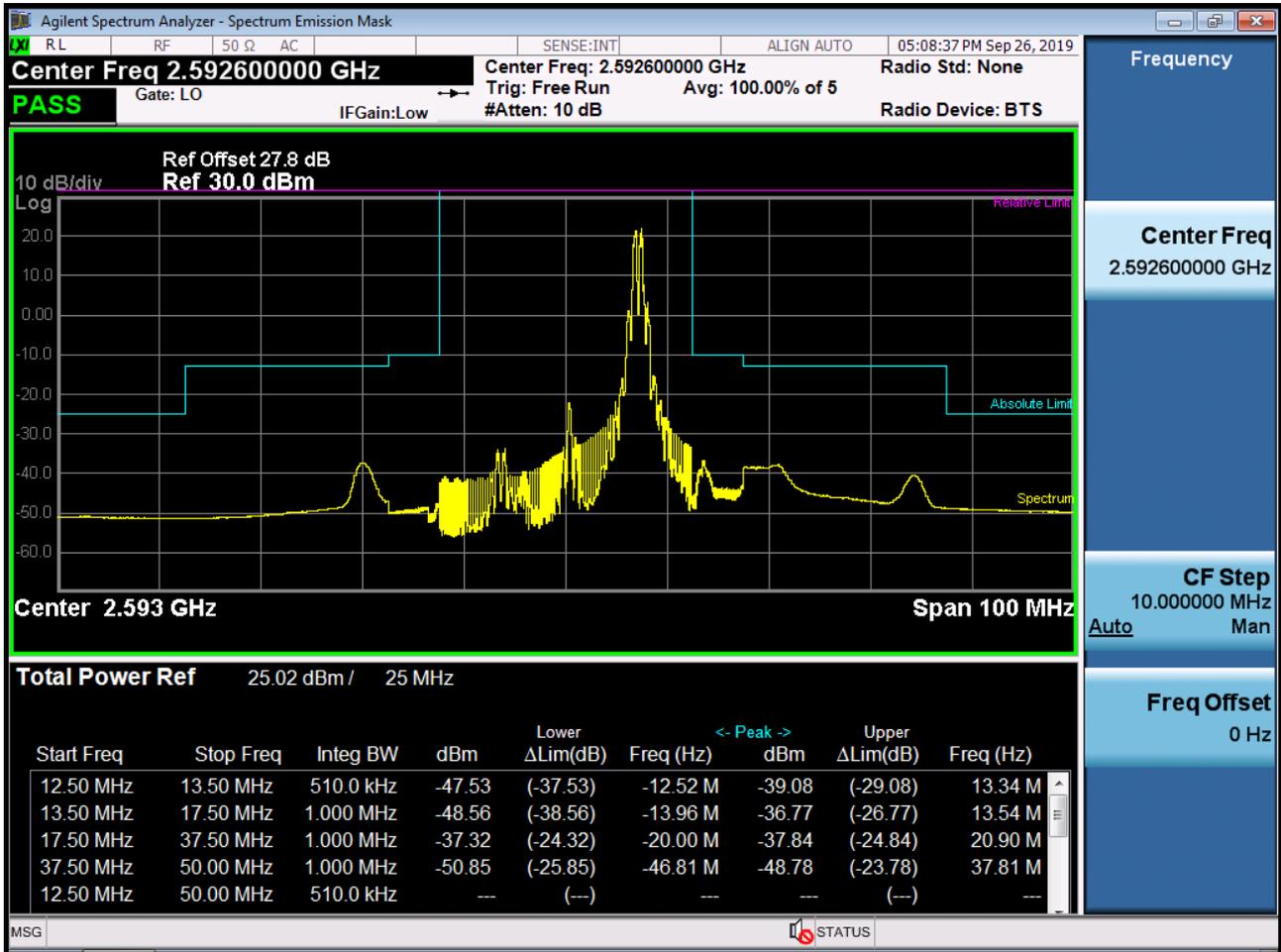
PCC 20MHz Ch40571 RB100 Offset0, SCC 10MHz Ch40715 RB50 Offset0



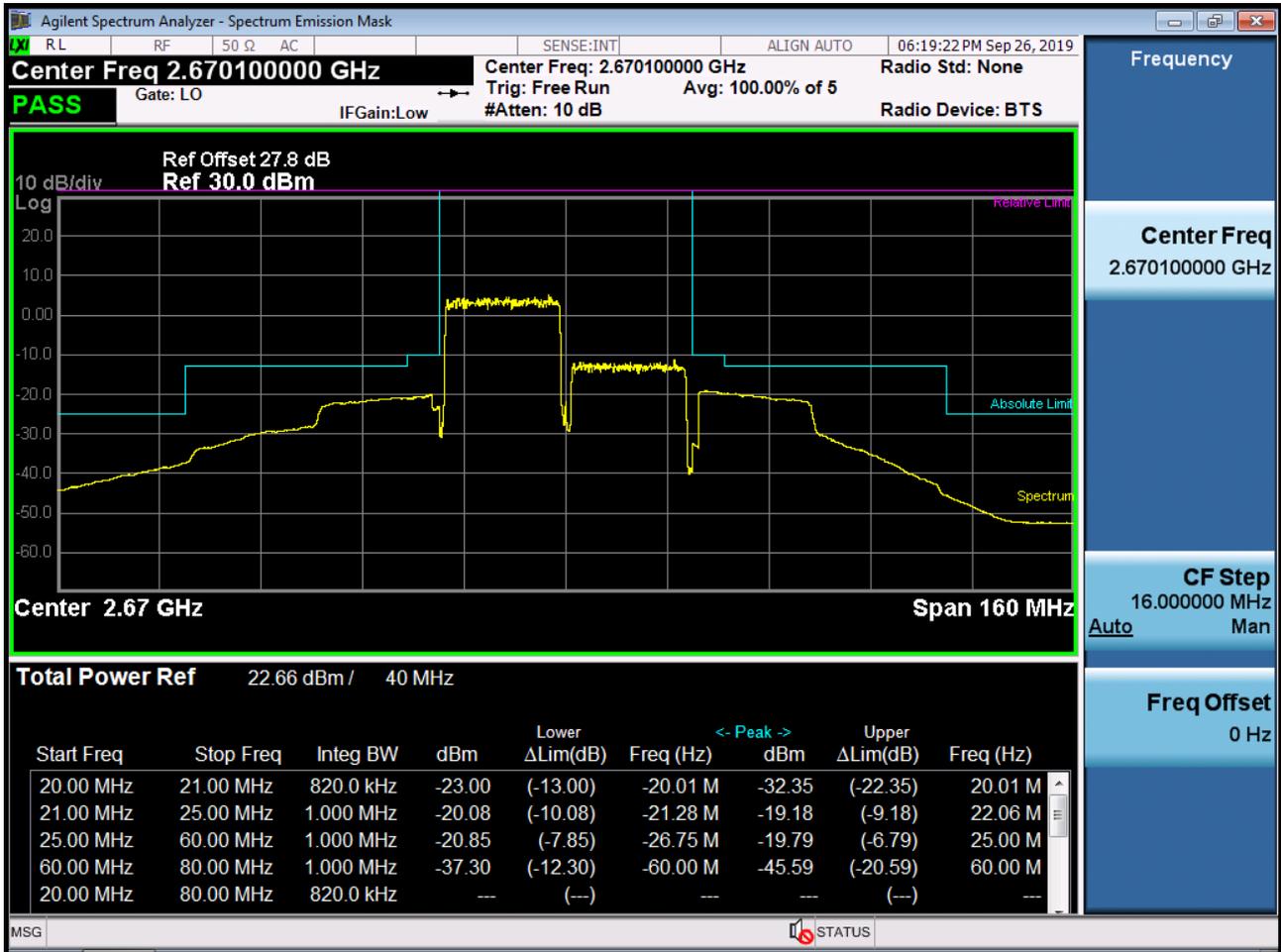
PCC 20MHz Ch40595 RB1 Offset0, SCC 5MHz Ch40712 RB1 Offset24



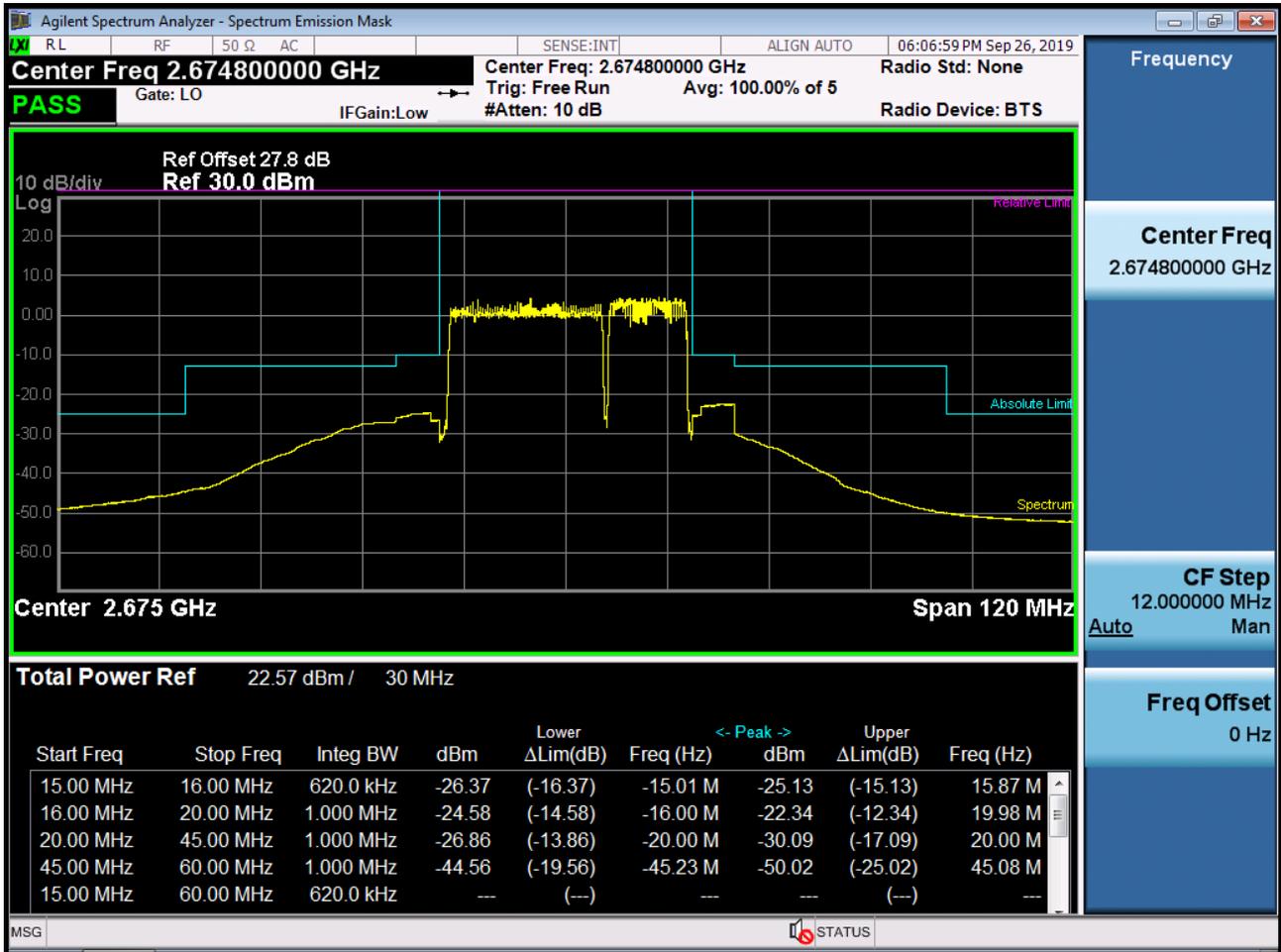
PCC 20MHz Ch40595 RB1 Offset99, SCC 5MHz Ch40712 RB1 Offset0



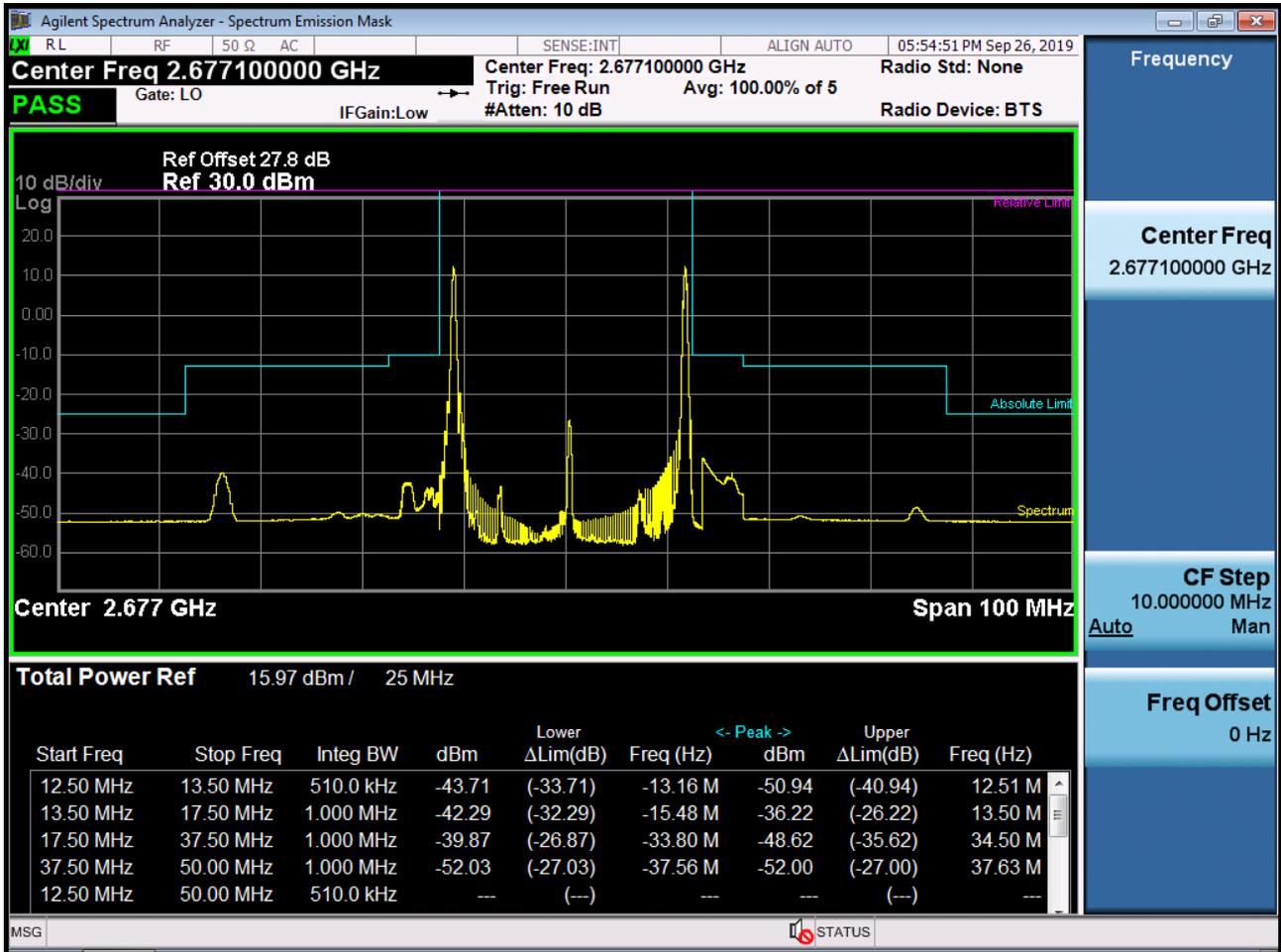
PCC 20MHz Ch41292 RB100 Offset0, SCC 20MHz Ch41490 RB100 Offset0



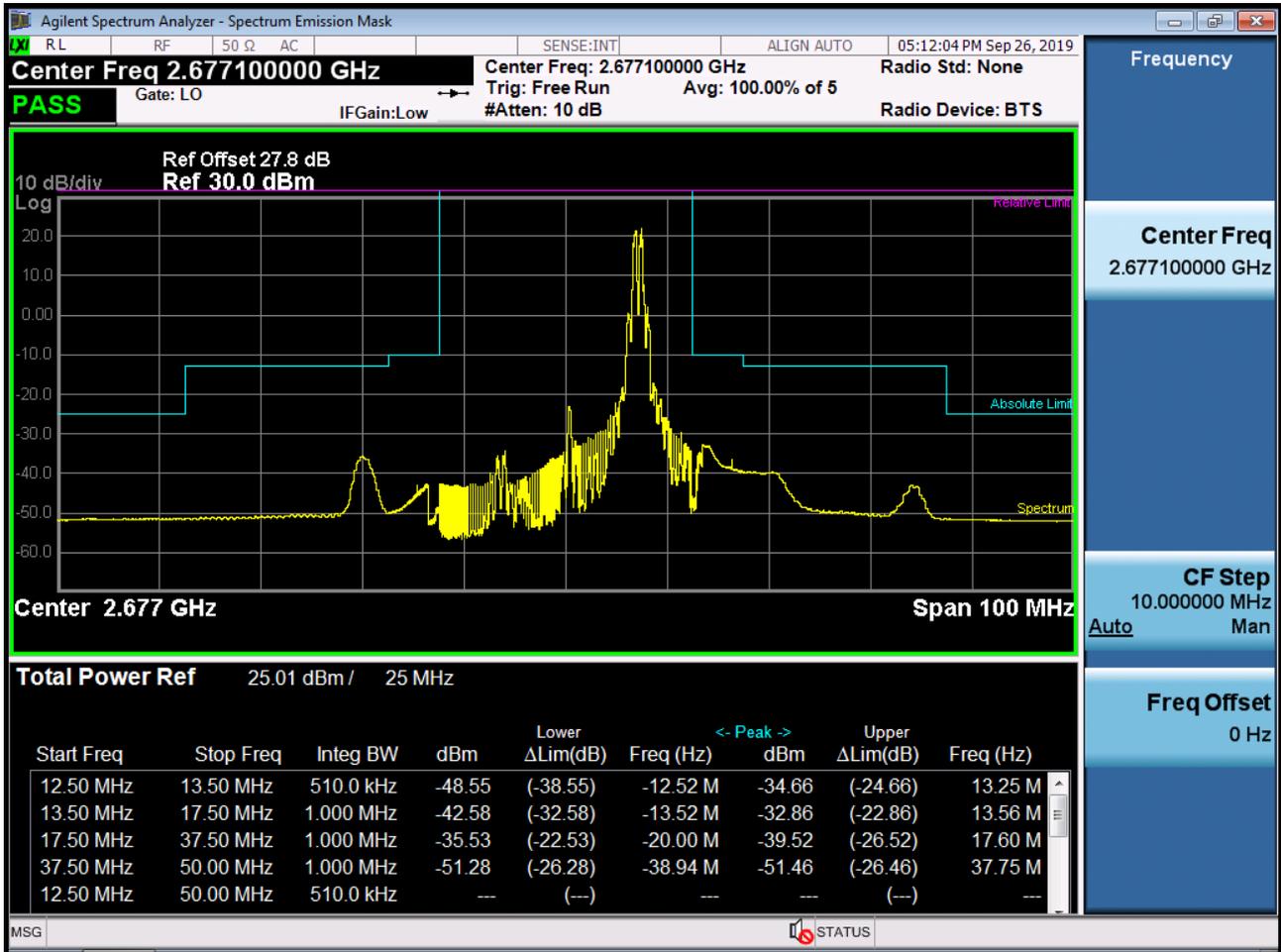
PCC 20MHz Ch41391 RB100 Offset0, SCC 10MHz Ch41535 RB50 Offset0



PCC 20MHz Ch41440 RB1 Offset0, SCC 5MHz Ch41557 RB1 Offset24



PCC 20MHz Ch41440 RB1 Offset99, SCC 5MHz Ch41557 RB1 Offset0



8.5 Frequency Stability / Variation Of Ambient Temperature

- ▣ PCC Channel: 39683
- ▣ PCC Frequency: 2499.3 MHz
- ▣ PCC BandWidth: 5 MHz
- ▣ SCC Channel: 39800
- ▣ SCC Frequency: 2511.0 MHz
- ▣ SCC BandWidth: 20 MHz
- ▣ Voltage : 7.700 VDC
- ▣ LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	PPM		Frequency Error (MHz)	
			PCC	SCC	PCC	SCC
100%	7.700	+20(Ref)	0.017	0.007	2499.30004	2511.00002
100%		-30	-0.026	-0.022	2499.29993	2510.99994
100%		-20	-0.021	0.012	2499.29995	2511.00003
100%		-10	0.024	0.012	2499.30006	2511.00003
100%		0	-0.014	0.027	2499.29996	2511.00007
100%		10	0.019	-0.011	2499.30005	2510.99997
100%		30	0.025	-0.017	2499.30006	2510.99996
100%		40	-0.018	0.023	2499.29995	2511.00006
100%		50	0.025	-0.013	2499.30006	2510.99997
Batt. Endpoint		7.300	20	-0.025	-0.008	2499.29994

- ▣ PCC Channel: 39705
- ▣ PCC Frequency: 2501.5 MHz
- ▣ PCC BandWidth: 10 MHz
- ▣ SCC Channel: 39849
- ▣ SCC Frequency: 2515.9 MHz
- ▣ SCC BandWidth: 20 MHz
- ▣ Voltage : 7.700 VDC
- ▣ LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	PPM		Frequency Error (MHz)	
			PCC	SCC	PCC	SCC
100%	7.700	+20(Ref)	-0.010	0.011	2501.49997	2515.90003
100%		-30	0.015	-0.024	2501.50004	2515.89994
100%		-20	-0.021	0.008	2501.49995	2515.90002
100%		-10	-0.008	0.011	2501.49998	2515.90003
100%		0	-0.017	0.016	2501.49996	2515.90004
100%		10	-0.026	-0.024	2501.49993	2515.89994
100%		30	0.018	-0.010	2501.50005	2515.89997
100%		40	-0.013	-0.017	2501.49997	2515.89996
100%		50	0.013	0.016	2501.50003	2515.90004
Batt. Endpoint	7.300	20	0.024	0.010	2501.50006	2515.90003

- PCC Channel: 39728
- PCC Frequency: 2503.8 MHz
- PCC BandWidth: 15 MHz
- SCC Channel: 39899
- SCC Frequency: 2520.9 MHz
- SCC BandWidth: 20 MHz
- Voltage : 7.700 VDC
- LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	PPM		Frequency Error (MHz)	
			PCC	SCC	PCC	SCC
100%	7.700	+20(Ref)	-0.022	0.019	2503.79995	2520.90005
100%		-30	0.027	0.009	2503.80007	2520.90002
100%		-20	0.013	0.019	2503.80003	2520.90005
100%		-10	0.025	-0.018	2503.80006	2520.89995
100%		0	0.017	0.011	2503.80004	2520.90003
100%		10	0.013	-0.015	2503.80003	2520.89996
100%		30	0.022	0.016	2503.80005	2520.90004
100%		40	0.023	0.017	2503.80006	2520.90004
100%		50	0.025	0.025	2503.80006	2520.90006
Batt. Endpoint	7.300	20	0.022	0.017	2503.80005	2520.90004

- PCC Channel: 39750
- PCC Frequency: 2506.0 MHz
- PCC BandWidth: 20 MHz
- SCC Channel: 39948
- SCC Frequency: 2525.8 MHz
- SCC BandWidth: 20 MHz
- Voltage : 7.700 VDC
- LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	PPM		Frequency Error (MHz)	
			PCC	SCC	PCC	SCC
100%	7.700	+20(Ref)	0.007	-0.008	2506.00002	2525.79998
100%		-30	0.007	0.024	2506.00002	2525.80006
100%		-20	-0.008	-0.019	2505.99998	2525.79995
100%		-10	-0.025	0.017	2505.99994	2525.80004
100%		0	0.018	0.025	2506.00005	2525.80006
100%		10	0.022	0.020	2506.00005	2525.80005
100%		30	0.020	-0.018	2506.00005	2525.79995
100%		40	0.023	-0.016	2506.00006	2525.79996
100%		50	-0.022	0.027	2505.99995	2525.80007
Batt. Endpoint		7.300	20	0.009	0.018	2506.00002

- PCC Channel: 41373
- PCC Frequency: 2668.3 MHz
- PCC BandWidth: 5 MHz
- SCC Channel: 41490
- SCC Frequency: 2680.0 MHz
- SCC BandWidth: 20 MHz
- Voltage : 7.700 VDC
- LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	PPM		Frequency Error (MHz)	
			PCC	SCC	PCC	SCC
100%	7.700	+20(Ref)	-0.019	-0.014	2668.29995	2679.99996
100%		-30	0.018	0.012	2668.30005	2680.00003
100%		-20	0.013	-0.021	2668.30003	2679.99994
100%		-10	0.020	-0.014	2668.30005	2679.99996
100%		0	0.009	-0.016	2668.30002	2679.99996
100%		10	-0.016	0.008	2668.29996	2680.00002
100%		30	-0.025	0.024	2668.29993	2680.00006
100%		40	-0.022	0.026	2668.29994	2680.00007
100%		50	0.025	-0.019	2668.30007	2679.99995
Batt. Endpoint		7.300	20	0.014	0.015	2668.30004

- PCC Channel: 41346
- PCC Frequency: 2665.6 MHz
- PCC BandWidth: 10 MHz
- SCC Channel: 41490
- SCC Frequency: 2680.0 MHz
- SCC BandWidth: 20 MHz
- Voltage : 7.700 VDC
- LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	PPM		Frequency Error (MHz)	
			PCC	SCC	PCC	SCC
100%	7.700	+20(Ref)	-0.021	-0.017	2665.59995	2679.99995
100%		-30	-0.022	-0.011	2665.59994	2679.99997
100%		-20	-0.013	0.019	2665.59997	2680.00005
100%		-10	0.023	-0.009	2665.60006	2679.99998
100%		0	-0.026	-0.012	2665.59993	2679.99997
100%		10	-0.010	0.022	2665.59997	2680.00006
100%		30	0.019	0.024	2665.60005	2680.00006
100%		40	0.007	-0.018	2665.60002	2679.99995
100%		50	0.021	0.007	2665.60006	2680.00002
Batt. Endpoint		7.300	20	-0.026	0.023	2665.59993

- ▣ PCC Channel: 41319
- ▣ PCC Frequency: 2662.9 MHz
- ▣ PCC BandWidth: 15 MHz
- ▣ SCC Channel: 41490
- ▣ SCC Frequency: 2680.0 MHz
- ▣ SCC BandWidth: 20 MHz
- ▣ Voltage : 7.700 VDC
- ▣ LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	PPM		Frequency Error (MHz)	
			PCC	SCC	PCC	SCC
100%	7.700	+20(Ref)	-0.012	0.015	2662.89997	2680.00004
100%		-30	-0.027	-0.008	2662.89993	2679.99998
100%		-20	-0.018	0.022	2662.89995	2680.00006
100%		-10	0.020	0.009	2662.90005	2680.00003
100%		0	0.021	0.021	2662.90006	2680.00006
100%		10	-0.014	0.017	2662.89996	2680.00005
100%		30	-0.016	0.021	2662.89996	2680.00006
100%		40	0.025	0.019	2662.90007	2680.00005
100%		50	-0.021	0.014	2662.89994	2680.00004
Batt. Endpoint	7.300	20	0.018	-0.027	2662.90005	2679.99993

- ▣ PCC Channel: 41292
- ▣ PCC Frequency: 2660.2 MHz
- ▣ PCC BandWidth: 20 MHz
- ▣ SCC Channel: 41490
- ▣ SCC Frequency: 2680.0 MHz
- ▣ SCC BandWidth: 20 MHz
- ▣ Voltage : 7.700 MHz
- ▣ LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	PPM		Frequency Error (MHz)	
			PCC	SCC	PCC	SCC
100%	7.700	+20(Ref)	0.013	0.021	2660.20003	2680.00006
100%		-30	-0.012	0.016	2660.19997	2680.00004
100%		-20	0.013	-0.020	2660.20004	2679.99995
100%		-10	0.008	0.025	2660.20002	2680.00007
100%		0	0.024	-0.023	2660.20006	2679.99994
100%		10	0.027	-0.017	2660.20007	2679.99995
100%		30	-0.018	0.019	2660.19995	2680.00005
100%		40	0.019	-0.023	2660.20005	2679.99994
100%		50	-0.020	0.024	2660.19995	2680.00006
Batt. Endpoint		7.300	20	0.020	-0.025	2660.20005

8.6 Radiated Spurious Emissions

- ▣ PCC Channel : 39750 (2506MHz)
- ▣ PCC BW(MHz) : 20
- ▣ PCC RB/ RB Offset : 1/ 99
- ▣ SCC Channel : 39867 (2525.8MHz)
- ▣ SCC BW(MHz) : 5
- ▣ SCC RB/ RB Offset : 1/ 0
- ▣ DISTANCE: 1 meters
- ▣ LIMIT: -25.0 dBm

Freq.(MHz)	Measured Level [dBm]	Ant. Gain (dBi)	Substitute Level [dBm]	C.L	Pol.	Result (dBm)
5,012.00	-51.25	12.65	-62.30	3.35	H	-53.00
7,518.00	-55.95	11.30	-57.94	4.30	V	-50.94
10,024.00	-59.14	11.05	-56.28	5.02	H	-50.25

- ▣ PCC Channel : 40549 (2585.9MHz)
- ▣ PCC BW(MHz) : 15
- ▣ PCC RB/ RB Offset : 1/ 49
- ▣ SCC Channel : 40470 (2578MHz)
- ▣ SCC BW(MHz) : 10
- ▣ SCC RB/ RB Offset : 1/ 0
- ▣ DISTANCE: 1 meters
- ▣ LIMIT: -25.0 dBm

Freq.(MHz)	Measured Level [dBm]	Ant. Gain (dBi)	Substitute Level [dBm]	C.L	Pol.	Result (dBm)
5,171.80	-56.18	12.70	-67.60	3.44	H	-58.34
7,757.70	-56.09	11.68	-59.22	4.35	V	-51.89
10,343.60	-57.10	10.80	-53.59	5.14	H	-47.93