DIVERSIFIED
T.E.S.T.
TECHNOLOGIES, INC.
4675 Burr Drive ● Liverpool, NY 13088 ● 1-800-724-6452 ● FAX: 315-457-0428 ● 315-457-0245

February 15, 2014

Mr. Brad Lightner
GOJO Industries
1 GOJO Plaza-Suite 500
Akron, OH 44311

Dear Mr. Lightner:

Enclosed is the test report for the GOJO Industries Limited Approval Wireless Transmitter Module 1960-501-WHT Rev. 004 and 1960-513-910 Rev. ABC in the host where the host is the Smartlink Ready LTX-7 13XX-##-YYY dispenser which was tested at our facility located at 4675 Burr Drive in Liverpool, NY. This facility is on file with the Federal Communications Commission (FCC) per 47 CFR 2.948. (Site File Registration Number: 306552) Please see attached annex for information on the Limited Approval Wireless Module 1960-501-WHT Rev. 004 and 1930-513-910 Rev. ABC.

As narrated in the report, the product configuration meets the requirements of the FCC per CFR 47 Part 15.249 Class C for Intentional Radiators. Additionally, all spurious emissions signals are greater than 20 dB below the limit of FCC Part 15.209 and are not reported. Therefore, the unit under test meets the FCC Part 15.209 requirements. The plots indicated ambient scans.

Thank you for selecting Diversified T.E.S.T. Technologies, Inc. for your testing needs. We look forward to working with you on future projects. Should you have any questions or concerns regarding this report, contact me at 315-457-0245. Please feel free to visit our website at www.dttlab.com.

Sincerely,

Michael McElroy
Technical Associate

Table of Contents

Emissions Testing

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Test Report

Laboratory
Diversified TEST Technologies, Inc.
4675 Burr Drive
Liverpool, NY 13088
315-457-0245

Manufacturer
GOJO Industries
1 GOJO Plaza, Suite 500
Akron, OH. 44311

Report Issue Date: **February 15, 2014**
Project Number: **6425**
Report Number: **6425-070913 (Edition 2) FCCC LTX7 with Limited Approval Wireless Transmitter Module**

Date Received: **June 24, 2013**
Date Tested: **June 24, 2013 – June 26, 2013**
Model Numbers: Limited Approval Wireless Transmitter Module 1960-501-WHT Rev. 004 and 1930-513-910 Rev. ABC in the host where the host is Smartlink Ready LTX-7 13XX-##-YYY Dispenser

FCC ID: O76-T4SG0910A

Traceability: *Reference standards of measurement have been calibrated by a competent body using standards traceable to NIST.*

The testing performed by Diversified TEST Technologies, Inc. has shown that the product referenced above complies with the electromagnetic compatibility requirements according to the standard(s) specified on page 3 of the test report. The results in this test report apply only to the product denoted above. The manufacturer is responsible for ensuring that additional units are manufactured with identical mechanical and electrical characteristics.
The equipment listed above conforms to the specified requirements of the test standards listed on page 3 of this report.

Complied by:
Signature:  Date: February 15, 2014
Michael McElroy
Technical Associate

Reviewed by:
Signature:  Date: February 15, 2014
Annelle Frierson
Vice- President

Emissions Test Regulations

The emissions tests were performed according to the following regulations:

☐EN 50081-1:1992

☐EN 50081-2:1995

☐EN 55011:1998 / A1:1999 / A2:2001 ☐Group 1 ☐Group 2
☐Class A ☐Class B

☐EN 55013:1990 / A12:1994 / A13:1996 / A14:1999

☐EN 55014:1993 / A1: 1997 ☐Household appliances and similar
☐Portable tools
☐Semiconductor devices

☐EN 55022:1998 ☐Class A ☐Class B

☒**FCC Part 15.249** ☐Class A ☐Class B ☒**Class C**

☒**Certification**
☐Verification
☐Declaration of Conformity

Emissions Test Conditions: FCC PART 15.249 CLASS C

The Harmonics, Bandwidth, and Spurious Emissions measurements were tested in a horizontal and vertical polarization at the following test location:

☒ Diversified TEST Technologies, Inc. Open Area Test Site
☐ Diversified TEST Technologies, Inc. Lab

at a test distance of:

☒ 1 meter
☒ 3 meters
☐ 30 meters

Test equipment used:

Manufacturer	Model	Description	Serial #	Cal.	Cal. Due
Hewlett Packard	8593EM	Spectrum Analyzer	3536A00139	6/19/13	6/19/14
Electro-Metrics	RGA60	Ridge Horn Antenna	2981	8/25/12	8/25/13
Hewlett Packard	7550A	Plotter	2407A00476	CNR	CNR
Electro-Metrics	LPA-25	Log Periodic Antenna 200-1000 MHz	1242	9/11/12	9/11/13
	MFR-57500	Blue low-loss transmit cable	337	CNR	CNR
		Non-conductive wooden turntable		CNR	CNR
		10-meter open field test range, grounded with ¼ ” x ¼ ” hardware cloth		CNR	CNR
Hewlett Packard	8595E	Spectrum Analyzer	3746A03177	7/23/12	7/23/13
EMCO	6520	Active Loop Antenna	9110-2685	7/19/12	7/19/13
Agilent	E7402A	Spectrum Analyzer	MY45103221	3/25/13	3/25/14
Electro-Metrics	BIA-30W	Biconical Antenna	103	9/1/12	9/1/13

Equipment under Test (EUT) Test Operation Mode – Emissions Tests:

The device under test was operated under the following conditions during emissions testing:

☐ Standby

☒ Normal Operating Mode

☐ Practice Operation

Description / Configuration of the device under test:

Limited Approval Wireless Transmitter Module 1960-501-WHT Rev. 004 and 1930-513-910 Rev. ABC in the host where the host is Smartlink Ready LTX-7 13XX-##-YYY Dispenser The unit was powered by a 6 VDC Battery during the collection of data.

Rationale for EUT setup / configuration:

After numerous trial runs with a full bottle and an empty bottle it was found an empty bottle was worst case so therefore the dispenser was tested with the empty bottle for the entire test.

Deviations from test method:

Testing performed at 1 meter test distance above 1 GHz to better represent harmonic emissions caused by the equipment under test. Testing using Loop Antenna was performed on 6/26/13.

GOJO Industries Limited Approval Wireless Transmitter Module 1960-501-WHT Rev. 004 and 1930-513-910 Rev. ABC in the host where the host is Smartlink Ready LTX-7 13XX-##-YYY Dispenser	Project Number: 6425

Emissions Test Results:

FCC Part 15.249 Part C 910 MHz – 9100 MHz
The requirements are ☒ **MET** ☐ **NOT MET**

Spurious Emissions Test
The requirements are ☒ **MET** ☐ **NOT MET**

General Remarks:

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be less than 500 kHz.

Measurements were taken up to the tenth harmonic.

The EUT was evaluated in 1 orthogonal orientation and the worst case data is reflected in the test report.

Radiated Measurements on the EUT were performed from 10 MHz up to the 10^{th} Harmonic and any emission found were more than 20 dB below the limit have not been reported.

The transmitter module transmits an OOK modulated data packet following a 10 second delay after an event trigger coming from the LTX dispenser. The use of the LTX dispenser to dispense soap to a customer constitutes an event and once an event occurs a trigger pulse is sent from the LTX dispenser to a microcontroller in the transmitter module. The microcontroller in the module uses the 10 second delay period to watch for additional events during that period of time. After the 10 second period has expired the total number of events that occurred during that 10 second period are sent in the transmitted data packet along with the transmitter module serial (ID) number and other information like the battery level. A drawing of the transmit packet is shown on last page of this report.

The transmitter packet starts with a 50% duty cycle Preamble for 38.76mSec followed by an off Space of 3.04mSec. After the Space, the payload is sent twice for redundancy. Each payload time is 63.84mSec in length and consists of an equal numbers of 1's and 0's. Where each of the 1's has a 25% duty cycle and each of the 0's has a 75% duty cycle. Together the payload has a combined 50% duty cycle. The total packet length is therefore the addition of the 38.76msec Preamble followed by the 3.04mSec Space followed by the two redundant payloads of 63.86mSec each for total packet length of 169.48mSec. The total packet duty cycle consists of 83.22mSec "on" bits and 86.26mSec "off" bits for a total percentage of "on" bits of 0.491%.

Therefore the duty cycle correction in terms of dB is: $20\log(0.491) = -6$dB.

Summary:

The requirements according to the technical regulations are

☒ Met.
☐ Not met.

The device under test does
☒ fulfill the general approval requirements mentioned on page 3.
☐ not fulfill the general approval requirements mentioned on page 3.

Testing Start Date: June 24, 2013
Testing End Date: June 26, 2013

Test Setup Photographs:

FCC PART 15.249 CLASS C – 910 MHZ

Photograph 1: FCC Part 15.249 Class C

Test Datasheets – 910 MHz- 9100 MHz

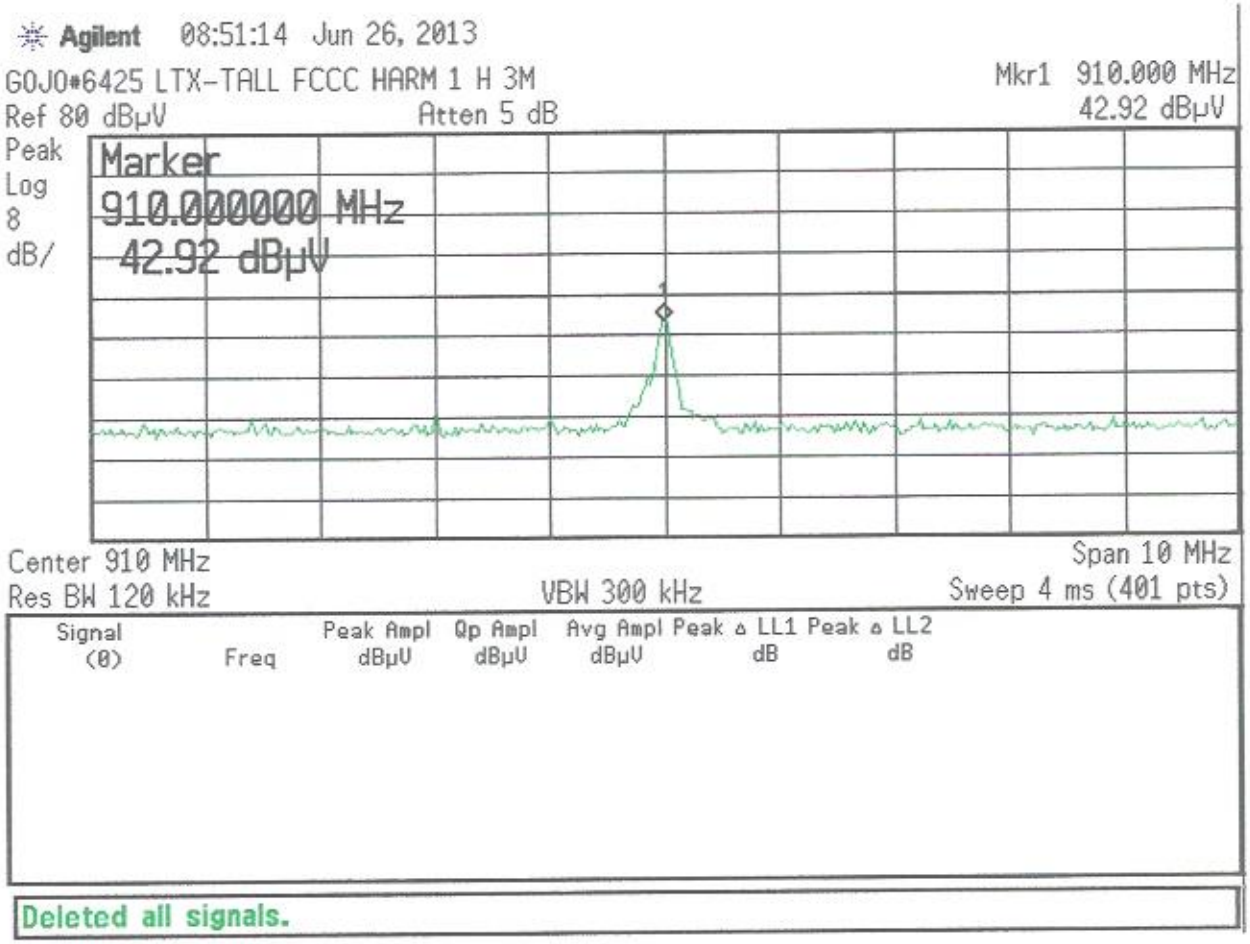
21 pages of data sheets to follow.

Limits for transmitters
USA

FCC Part 15.249 Transmitter Test												
						GOJO	6425					
Measured	Res.	DUT	Measured	Azimuth	Cable	Antenna	Measurement	Duty Cycle	FCC	Corrected	Delta	
Field Strength	Bandwidth	Frequency	Frequency	degrees	Factor	Gain	Distance	Correction	Limit	Field Strength	Limit	Polarity
(dBµV)	(Khz)	(Mhz)	(Mhz)		(dB)	(dB)	(Meters)	(dB)	(uV/M)	to 3M	(dB)	
Peak									at 3M	in uV/M peak		
42.92	120	910	910	135	17.2	19.6	3	-6	50000	4,852.89	-20.26	H
47.78	120	910	1820	0.00	2.1	7.6	1	-6	500	124.99	-12.04	H
35.35	1000	910	2730	0	2.2	9.2	1	-6	500	36.34	-22.77	H
29.23	1000	910	3640	0	2.4	8.9	1	-6	500	17.76	-28.99	H
28.67	1000	910	4550	0	2.5	10	1	-6	500	19.12	-28.35	H
27.65	1000	910	5460	0	2.7	10	1	-6	500	17.39	-29.17	H
28.70	1000	910	6370	0	2.8	12	1	-6	500	25.00	-26.02	H
29.40	1000	910	7280	0	2.8	10.5	1	-6	500	22.80	-26.82	H
29.61	1000	910	8190	0	3.0	10.3	1	-6	500	23.35	-26.61	H
28.70	1000	910	9100	0	3.1	11.2	1	-6	500	23.60	-26.52	H
	*Antenna factors are pre-calculated into Measured Field Strength (dBµV)											
Unit Under Tes	GOJO	LTX-7		13XX-##-YYY	6/24/2013		Empty Bottle					

Limits for transmitters
USA

FCC Part 15.249 Transmitter Test												
						GOJO	6425					
Measured	Res.	DUT	Measured	Azimuth	Cable	Antenna	Measurement	Duty Cycle	FCC	Corrected	Delta	
Field Strength	Bandwidth	Frequency	Frequency	degrees	Factor	Gain	Distance	Correction	Limit	Field Strength	Limit	Polarity
(dBµV)	(Khz)	(Mhz)	(Mhz)		(dB)	(dB)	(Meters)	(dB)	(uV/M)	to 3M	(dB)	
Peak									at 3M	in uV/M peak		
51.82	120	910	910	145	17.2	19.6	3	-6	50000	13,520.73	-11.36	V
56.24	120	910	1820	0.00	2.1	7.6	1	-6	500	331.04	-3.58	V
32.43	1000	910	2730	0	2.2	9.2	1	-6	500	25.96	-25.69	V
29.63	1000	910	3640	0	2.4	8.9	1	-6	500	18.59	-28.59	V
29.23	1000	910	4550	0	2.5	10	1	-6	500	20.39	-27.79	V
29.61	1000	910	5460	0	2.7	10	1	-6	500	21.80	-27.21	V
29.07	1000	910	6370	0	2.8	12	1	-6	500	26.08	-25.65	V
29.35	1000	910	7280	0	2.8	10.5	1	-6	500	22.67	-26.87	V
29.54	1000	910	8190	0	3.0	10.3	1	-6	500	23.17	-26.68	V
28.47	1000	910	9100	0	3.1	11.2	1	-6	500	22.98	-26.75	V
	*Antenna factors are pre-calculated into Measured Field Strength (dBµV)											
Unit Under Tes	GOJO	LTX-7		13XX-##-YYY	6/24/2013		Empty Bottle					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Mkr1 910.000 MHz
Ref 80 dBµV
Atten 5 dB
42.92 dBµV
Peak
Log
8
dB/
Marker
910.000000 MHz
42.92 dBµV
Center 910 MHz
Span 10 MHz
Res BW 120 kHz
VBW 300 kHz
Sweep 4 ms (401 pts)
Signal (0)
Freq
Peak Ampl dBµV
Qp Ampl dBµV
Avg Ampl dBµV
Peak Δ LL1 dB
Peak Δ LL2 dB
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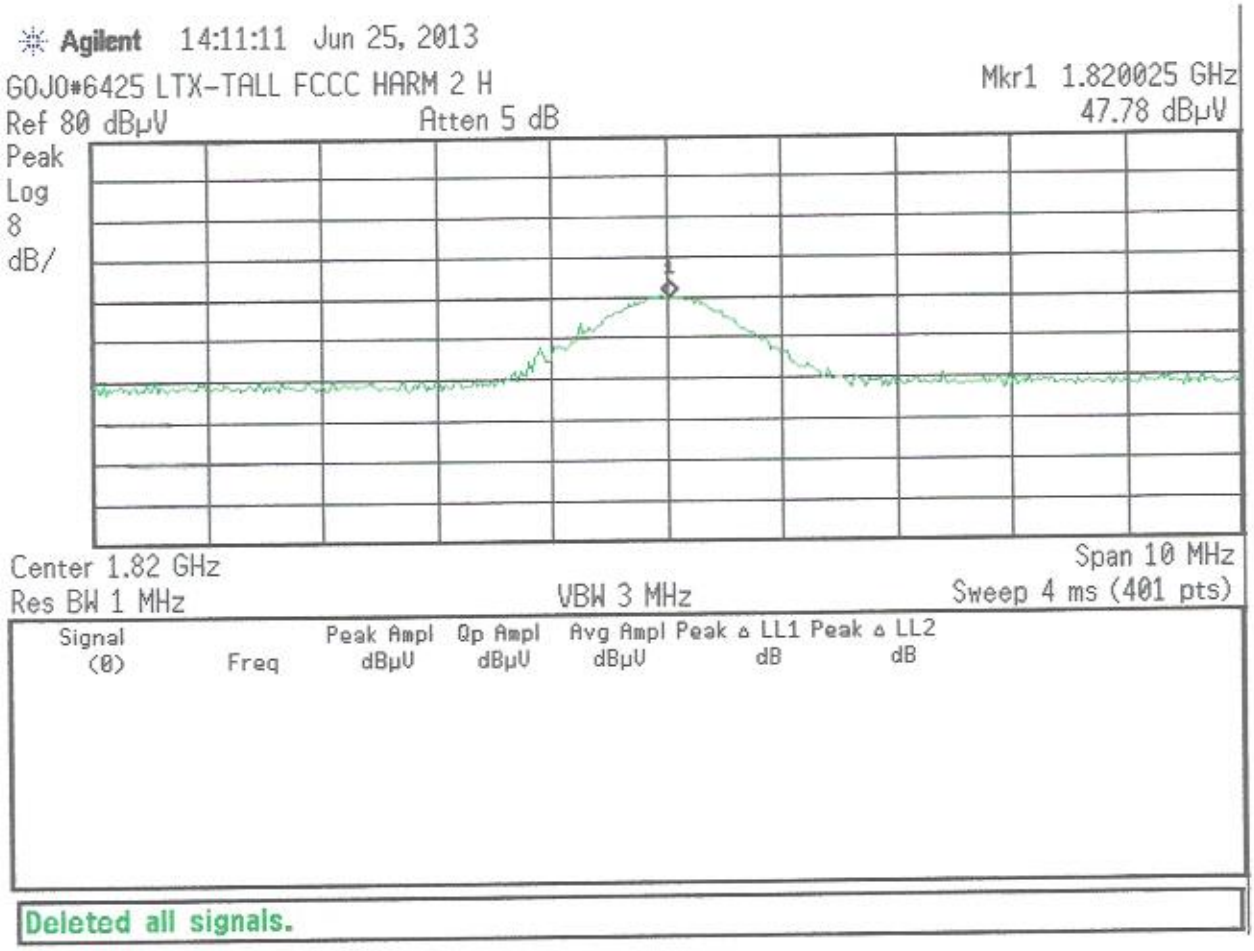
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GOJO#6425 LTX-TALL FCCC HARM 2 H
Mkr1 1.820025 GHz
47.78 dBµV
Ref 80 dBµV
Atten 5 dB
Peak
Log
8
dB/
Center 1.82 GHz
Res BW 1 MHz
VBW 3 MHz
Span 10 MHz
Sweep 4 ms (401 pts)
Signal (0)
Freq
Peak Ampl dBµV
Qp Ampl dBµV
Avg Ampl dBµV
Peak Δ LL1 dB
Peak Δ LL2 dB
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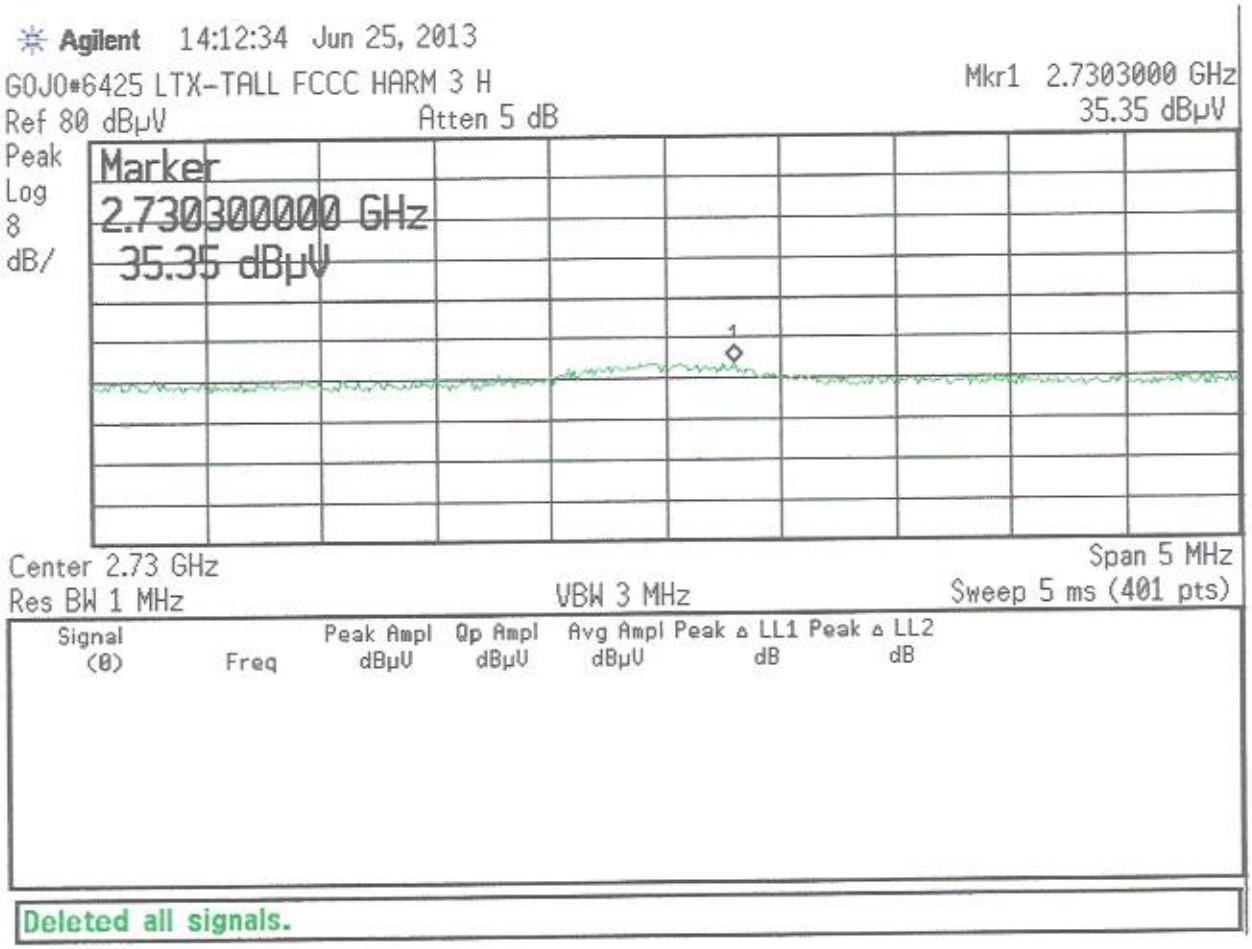
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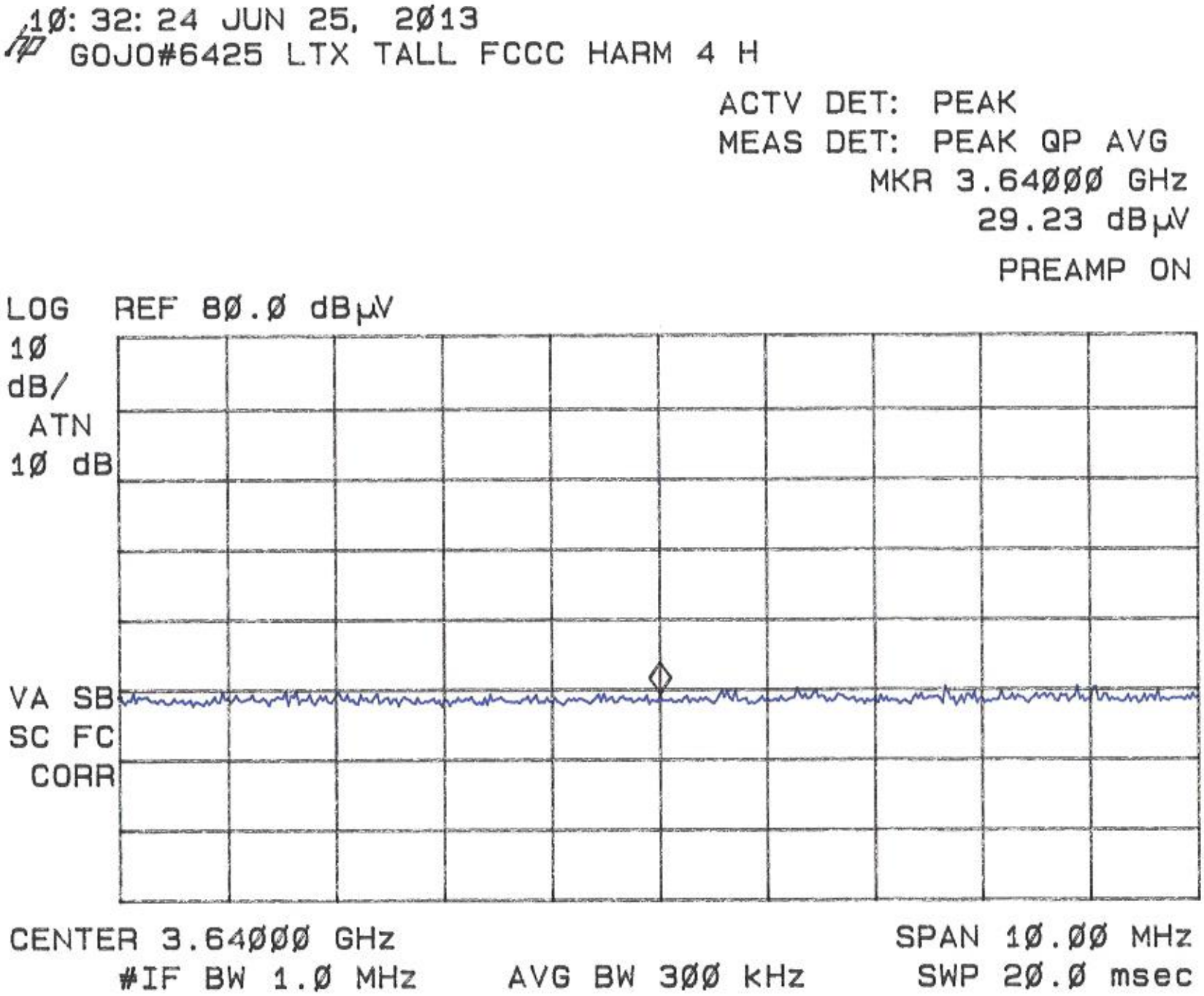
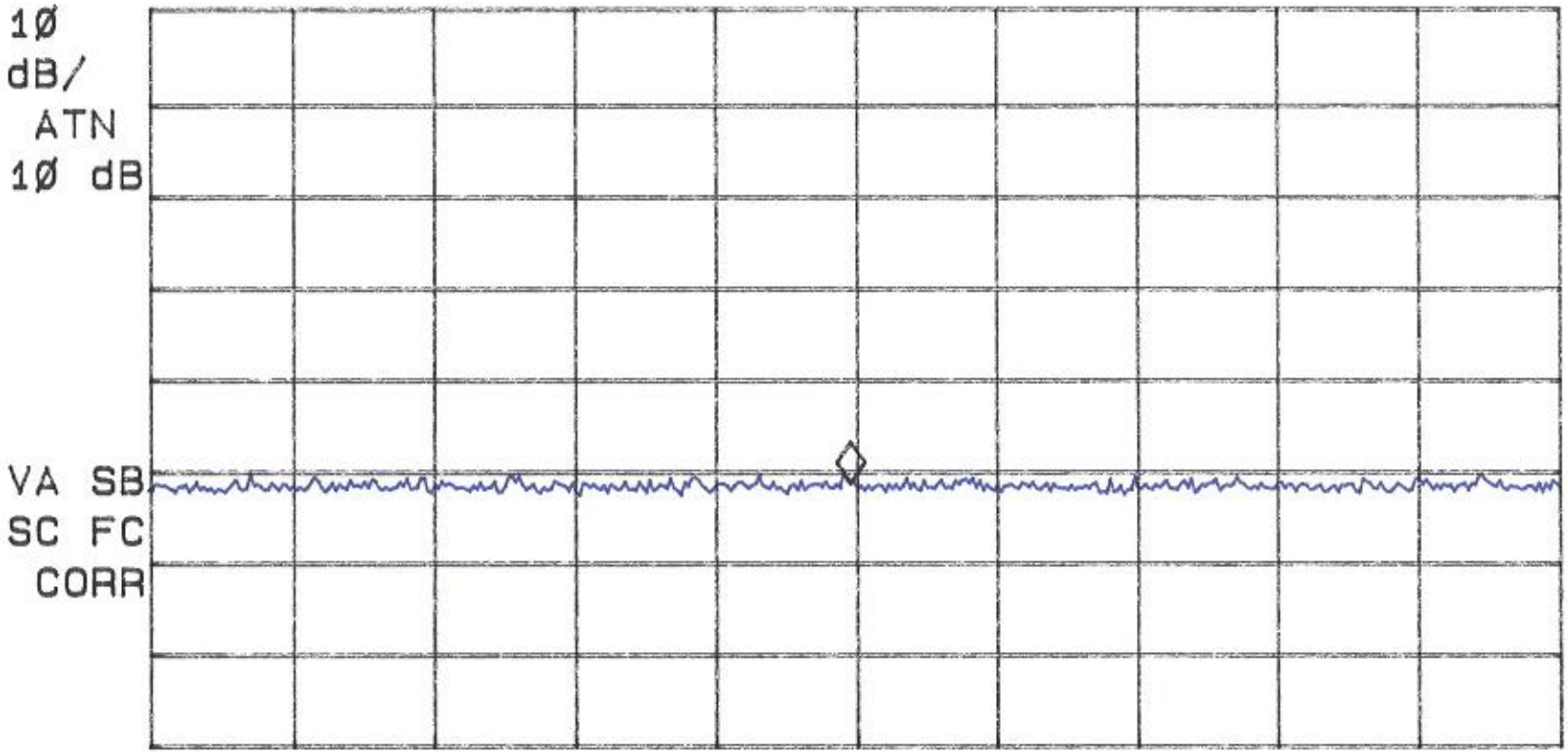
GOJO#6425 LTX-TALL FCCC HARM 3 H
Mkr1 2.7303000 GHz
35.35 dBµV
Ref 80 dBµV
Atten 5 dB
Peak
Log
8
dB/
Marker
2.730300000 GHz
35.35 dBµV
1
Center 2.73 GHz
Span 5 MHz
Res BW 1 MHz
VBW 3 MHz
Sweep 5 ms (401 pts)
Signal (0)
Freq
Peak Ampl dBµV
Qp Ampl dBµV
Avg Ampl dBµV
Peak Δ LL1 dB
Peak Δ LL2 dB
Deleted all signals.


10: 32: 24 JUN 25, 2013
GOJO#6425 LTX TALL FCCC HARM 4 H
ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 3.64000 GHz
29.23 dBµV
PREAMP ON
LOG REF 80.0 dBµV
10
dB/
ATN
10 dB
VA SB
SC FC
CORR
CENTER 3.64000 GHz
SPAN 10.00 MHz
#IF BW 1.0 MHz
AVG BW 300 kHz
SWP 20.0 msec

10: 39: 57 JUN 25, 2013
GOJO#6425 LTX TALL FCCC HARM 5 H

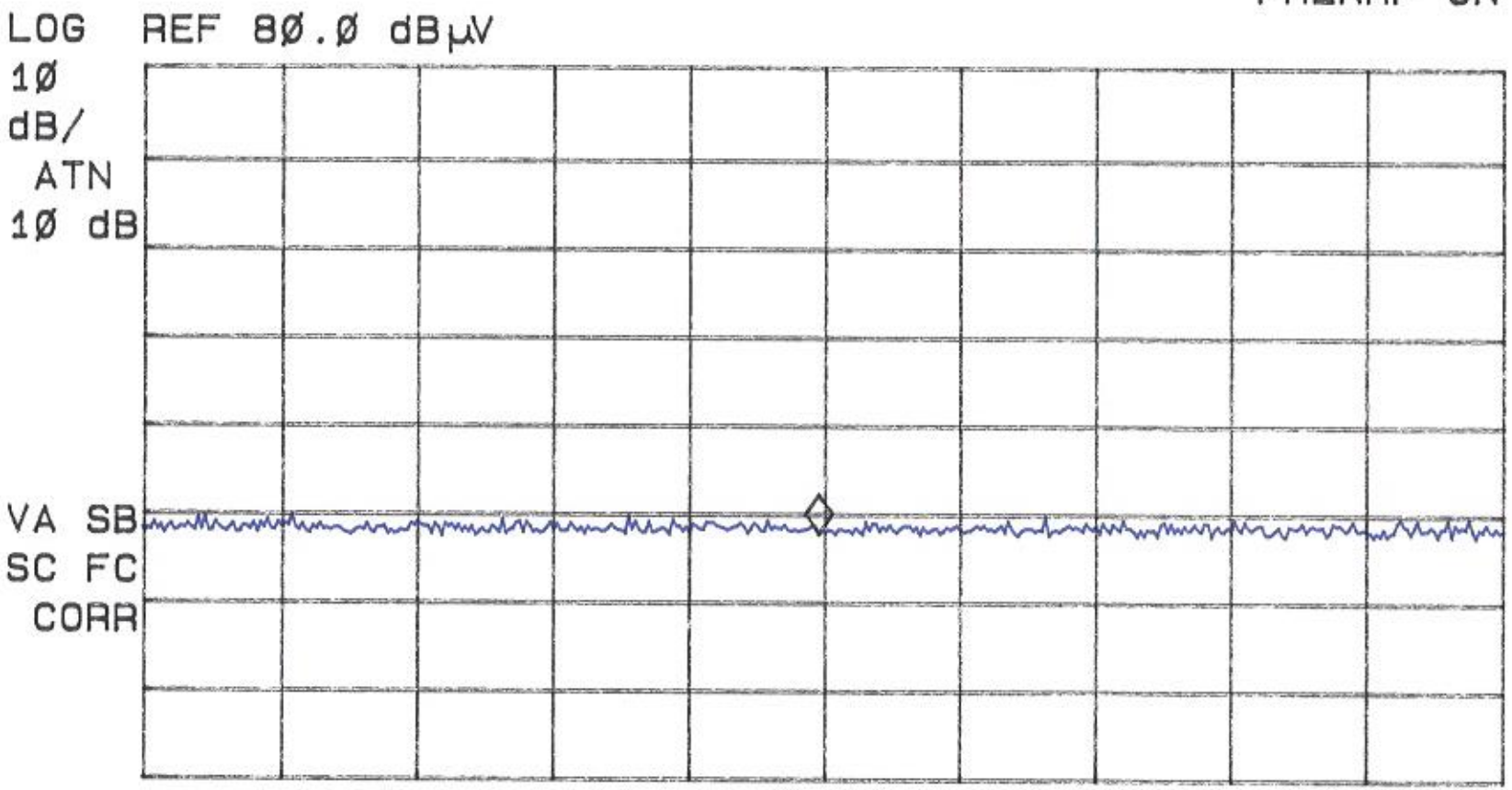
ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 4.54995 GHz
28.67 dBµV
PREAMP ON



CENTER 4.550000 GHz
SPAN 10.00 MHz
#IF BW 1.0 MHz
AVG BW 300 kHz
SWP 20.0 msec

10: 56: 28 JUN 25, 2013
GOJO#6425 LTX TALL FCCC HARM 6 H

ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 5.45995 GHz
27.65 dBµV
PREAMP ON



CENTER 5.46000 GHz
#IF BW 1.0 MHz
AVG BW 300 kHz
SPAN 10.00 MHz
SWP 20.0 msec

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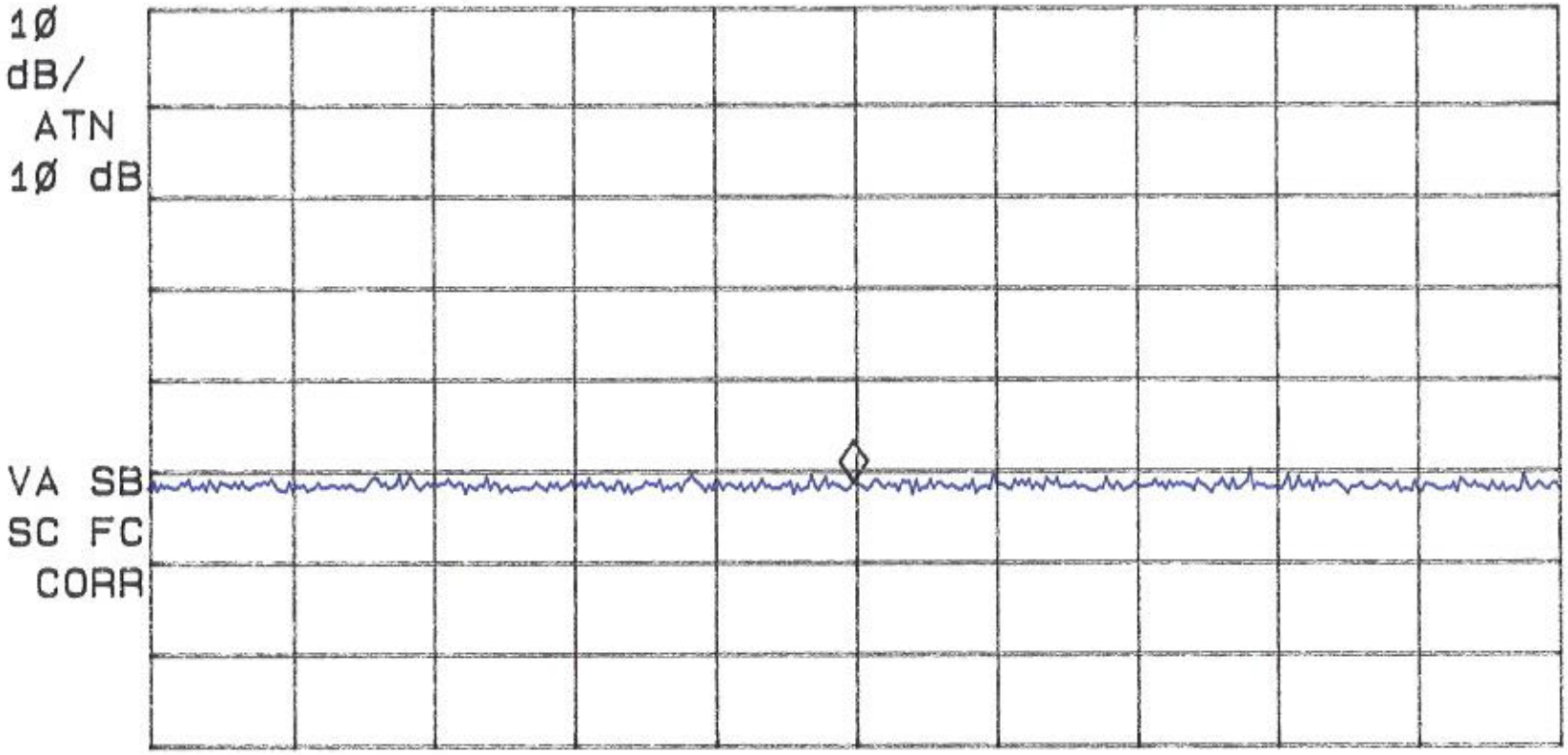
ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 6.36998 GHz
28.70 dBµV
PREAMP ON



CENTER 6.370000 GHz
SPAN 10.00 MHz
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AVG BW 300 kHz
SWP 20.0 msec

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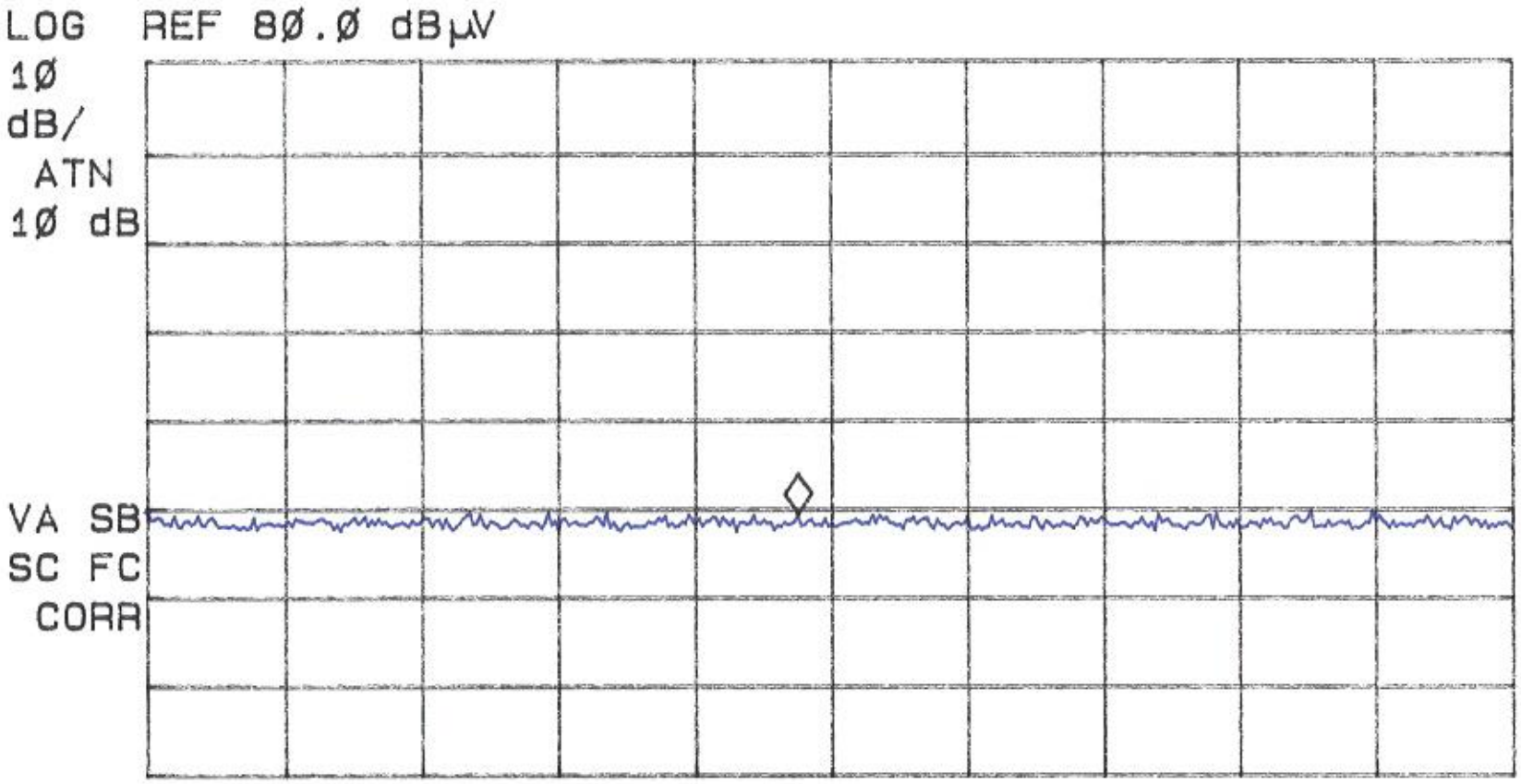
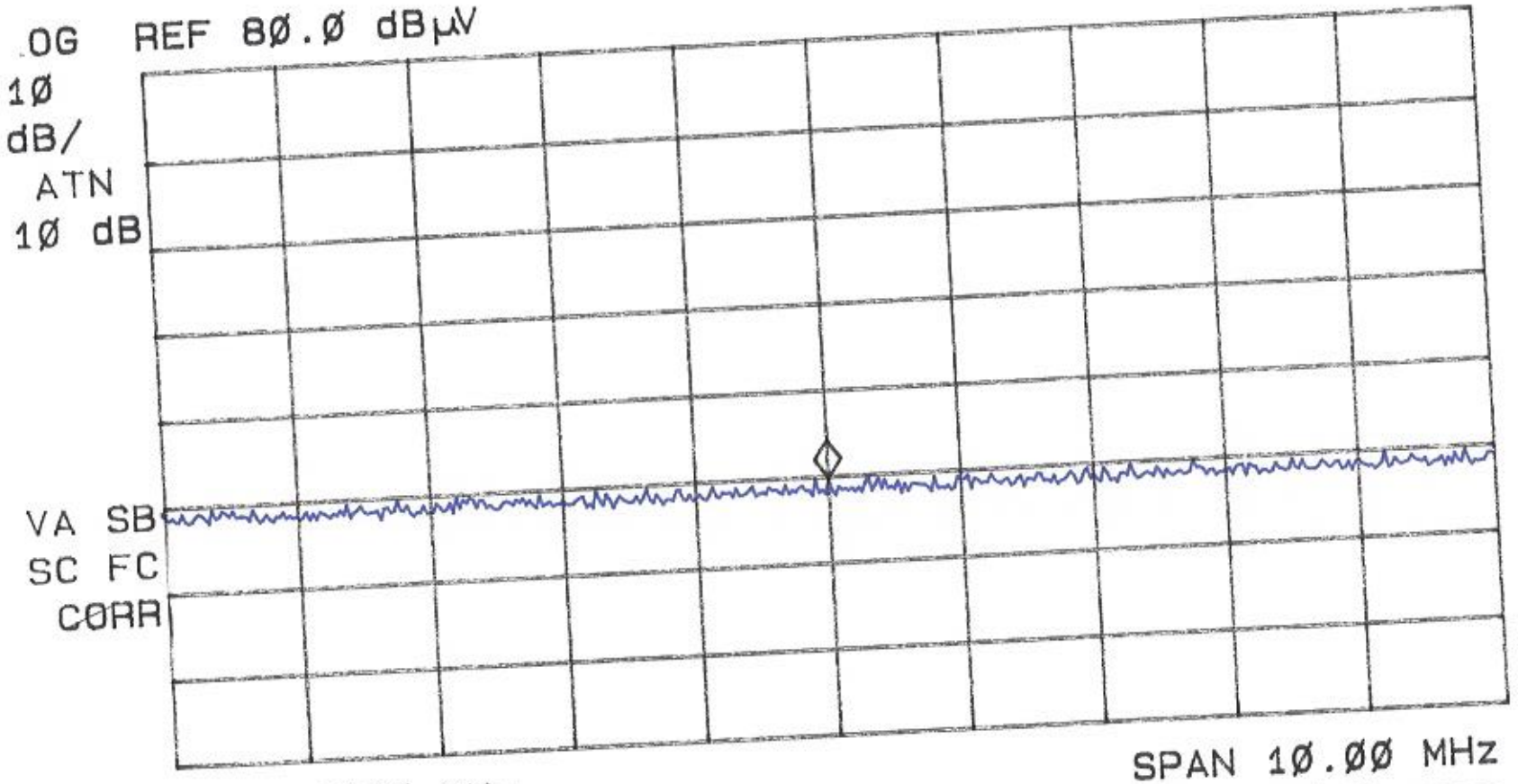
ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 7.27975 GHz
29.40 dBµV
PREAMP ON



CENTER 7.28000 GHz
SPAN 10.00 MHz
#IF BW 1.0 MHz
AVG BW 300 kHz
SWP 20.0 msec

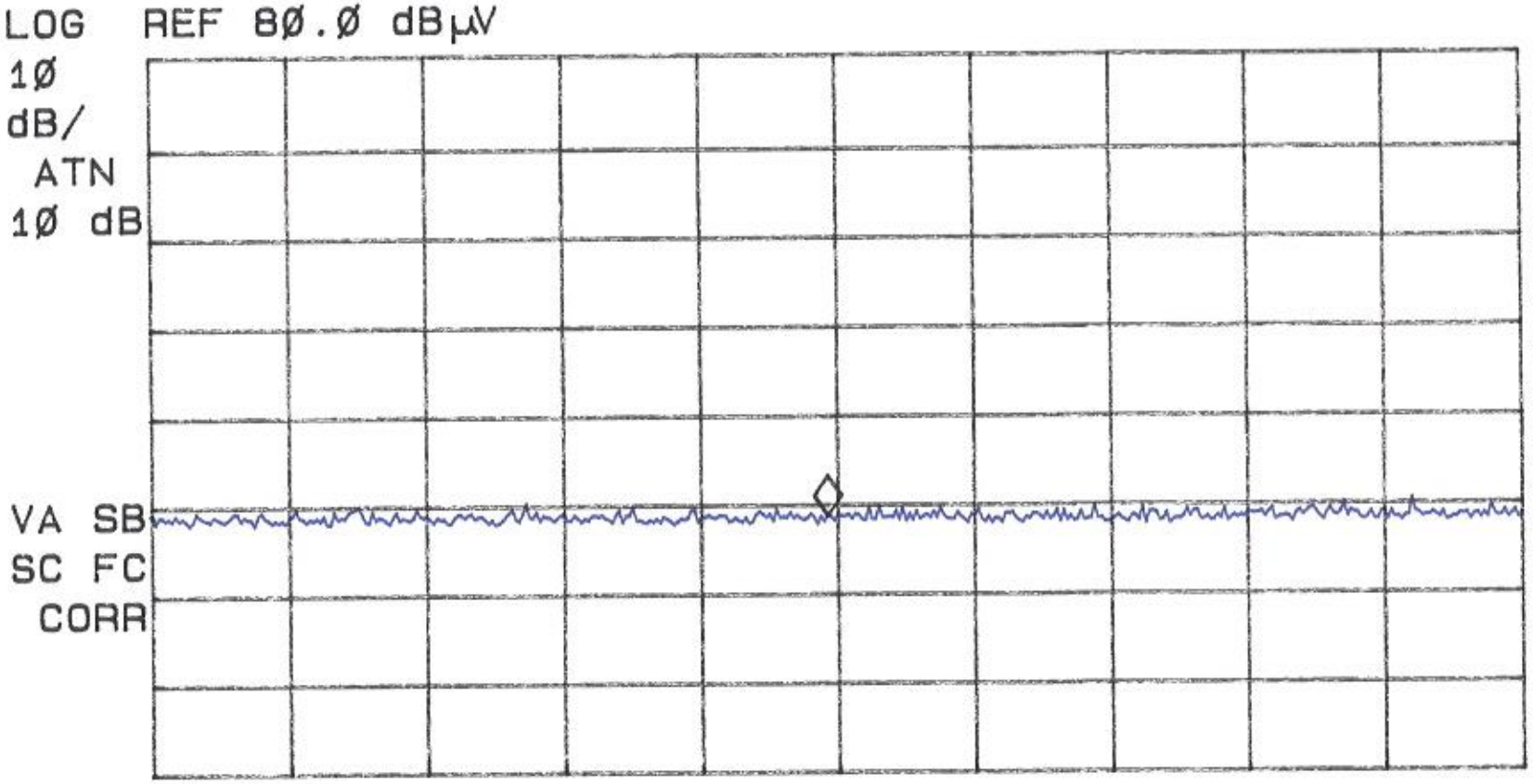
11: 12: 34 JUN 25, 2013
GOJO#6425 LTX TALL FCCC HARM 3 H

ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 8.19000 GHz
29.61 dBµV
PREAMP ON

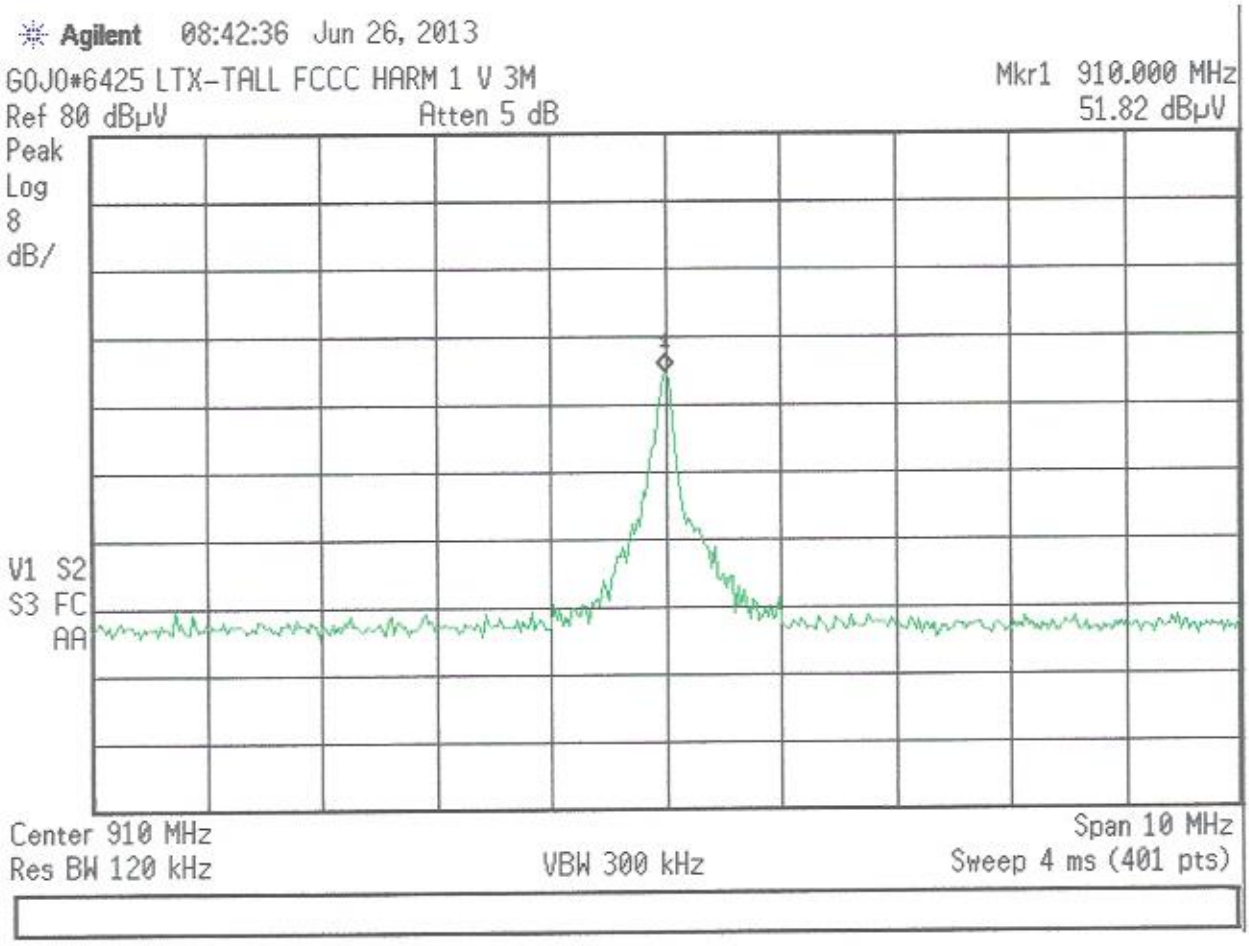


11: 2Ø: 12 JUN 25, 2Ø13
GOJO#6425 LTX TALL FCCC HARM 1Ø H

ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 9.Ø9993 GHz
28.7Ø dBµV
PREAMP ON



CENTER 9.1ØØØØ GHz
SPAN 1Ø.ØØ MHz
#IF BW 1.Ø MHz
AVG BW 3ØØ kHz
SWP 2Ø.Ø msec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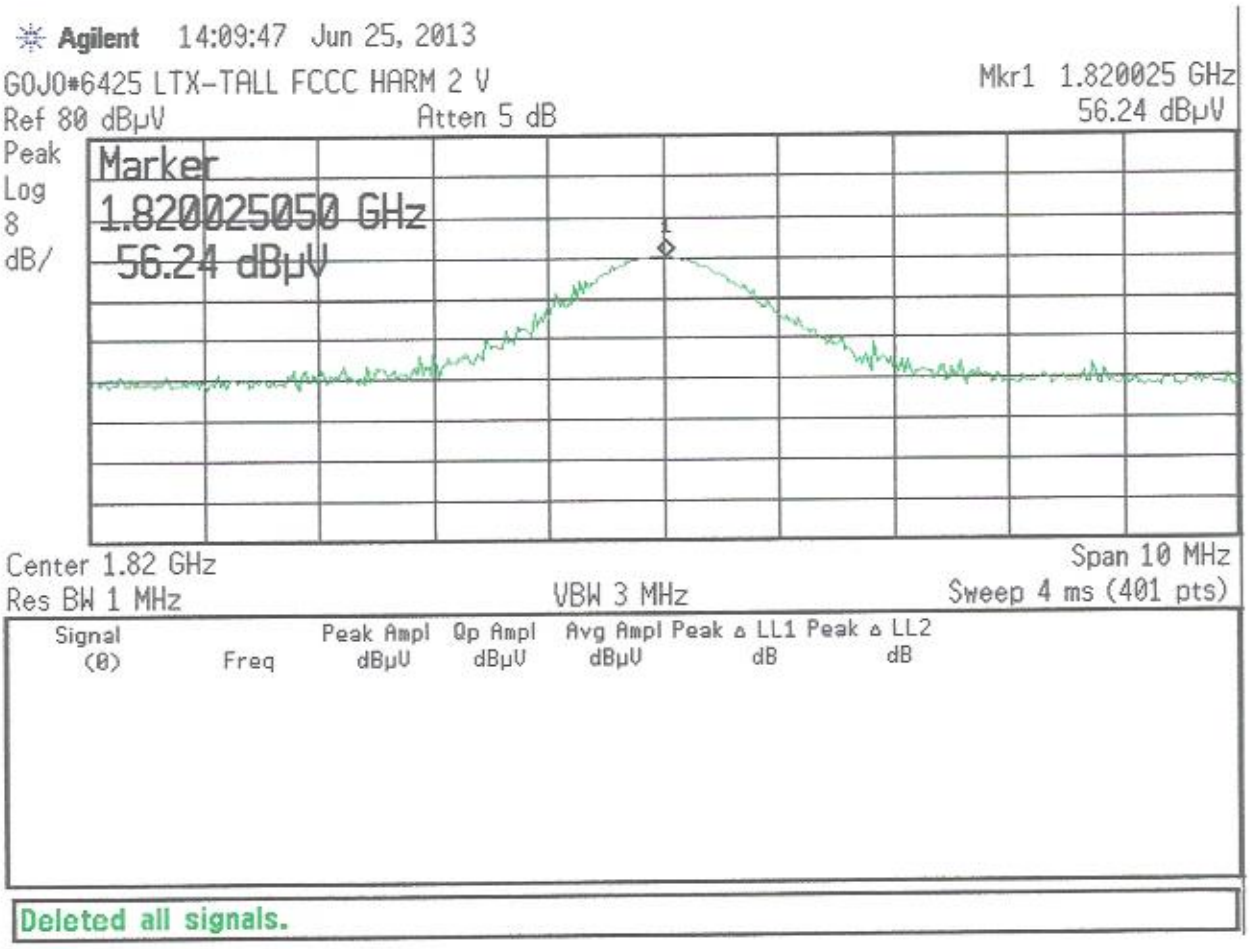
Ref 80 dBµV
Atten 5 dB
Mkr1 910.000 MHz
51.82 dBµV
Peak
Log
8
dB/
V1 S2
S3 FC
AA
Center 910 MHz
Res BW 120 kHz
VBW 300 kHz
Span 10 MHz
Sweep 4 ms (401 pts)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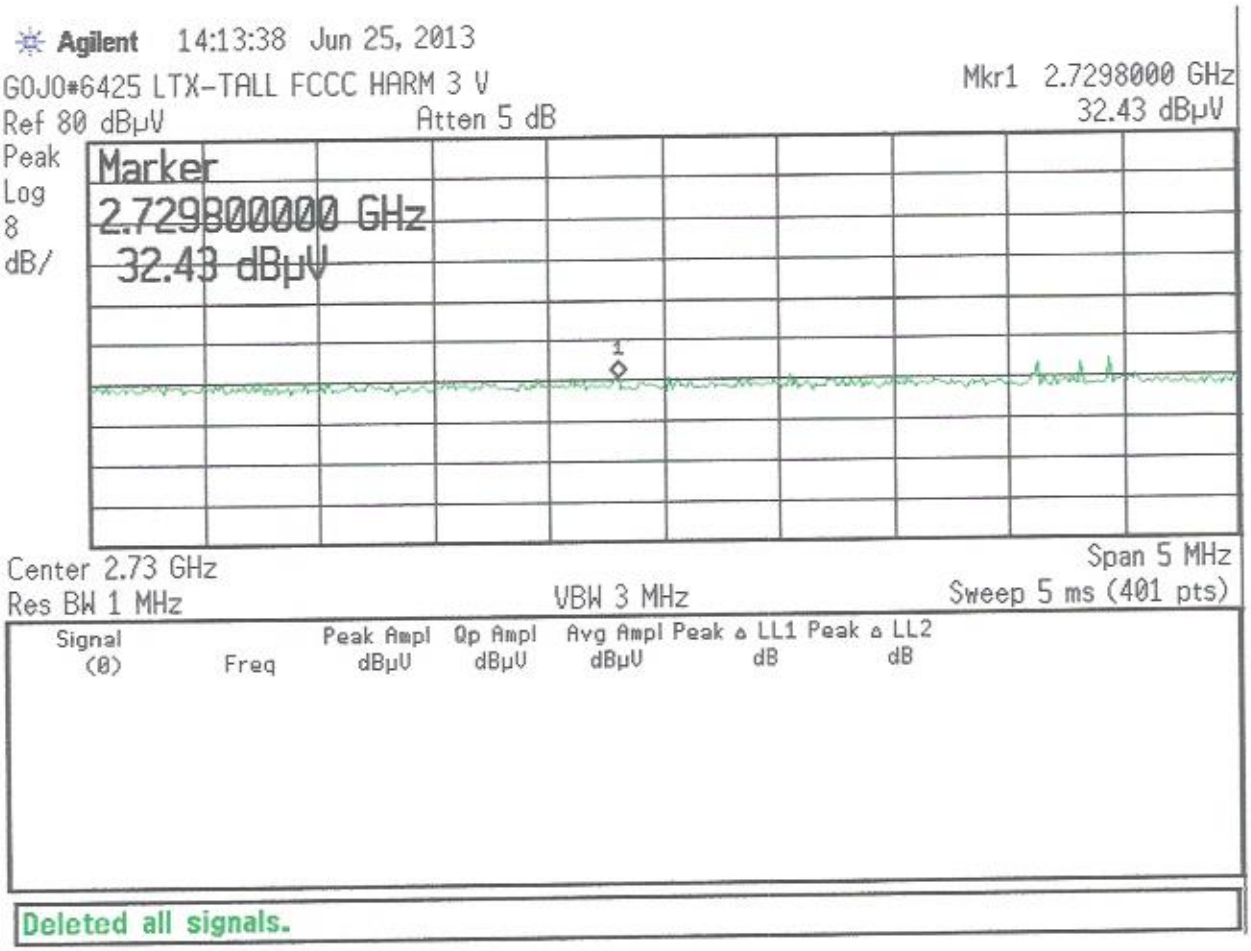
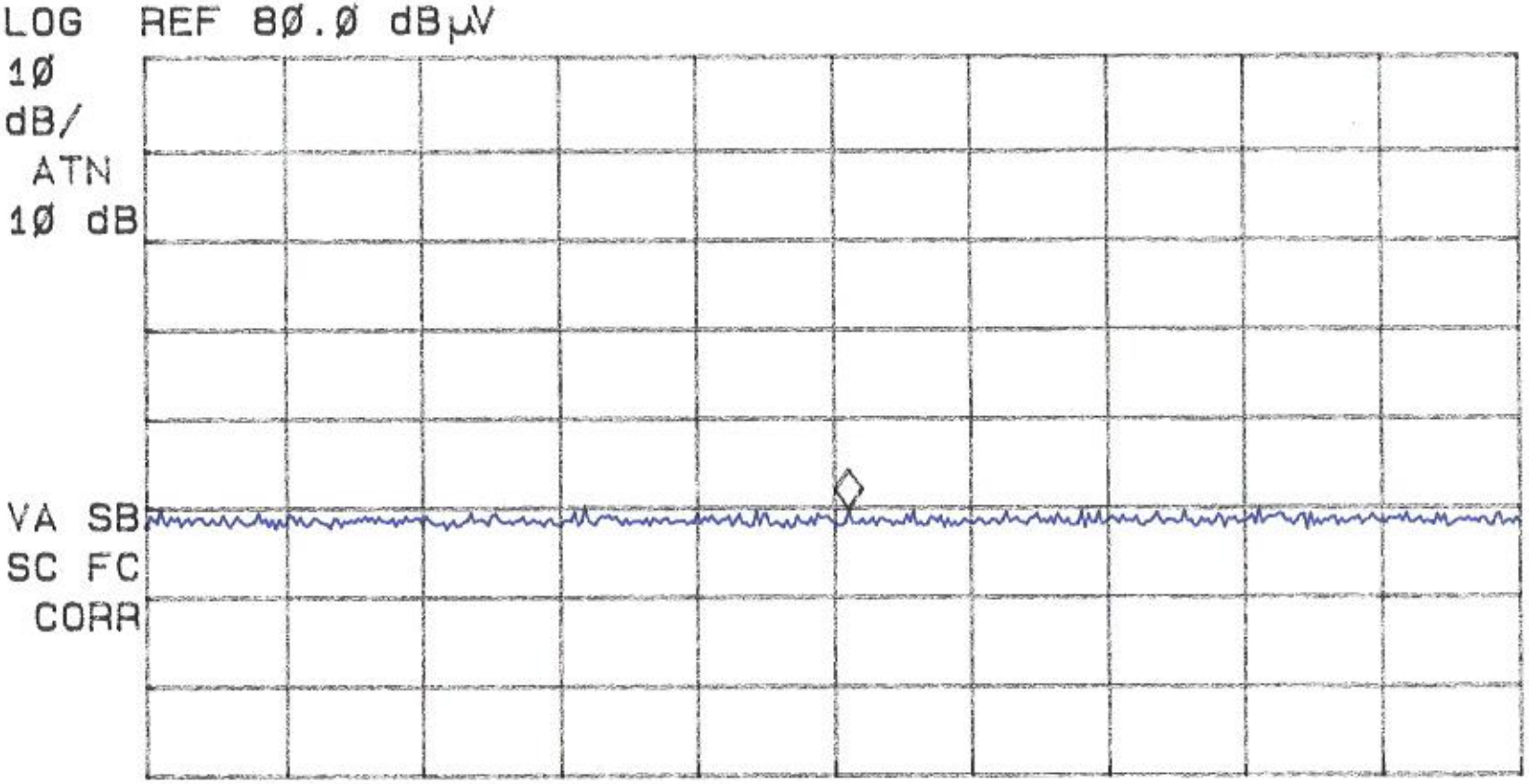
GOJO#6425 LTX-TALL FCCC HARM 2 V
Mkr1 1.820025 GHz
56.24 dBµV
Ref 80 dBµV
Atten 5 dB
Peak
Log
8
dB/
Marker
1.820025050 GHz
56.24 dBµV
Center 1.82 GHz
Span 10 MHz
Res BW 1 MHz
VBW 3 MHz
Sweep 4 ms (401 pts)
Signal (0)
Freq
Peak Ampl dBµV
Qp Ampl dBµV
Avg Ampl dBµV
Peak Δ LL1 dB
Peak Δ LL2 dB
Deleted all signals.


Agilent 14:13:38 Jun 25, 2013
GOJO#6425 LTX-TALL FCCC HARM 3 V
Mkr1 2.7298000 GHz
32.43 dBµV
Ref 80 dBµV
Atten 5 dB
Peak
Log
8
dB/
Marker
2.729800000 GHz
32.43 dBµV
Center 2.73 GHz
Res BW 1 MHz
VBW 3 MHz
Span 5 MHz
Sweep 5 ms (401 pts)
Signal (0)
Freq
Peak Ampl dBµV
Qp Ampl dBµV
Avg Ampl dBµV
Peak Δ LL1 dB
Peak Δ LL2 dB
Deleted all signals.

10: 35: 07 JUN 25, 2013
GOJO#6425 LTX TALL FCCC HARM 4 V

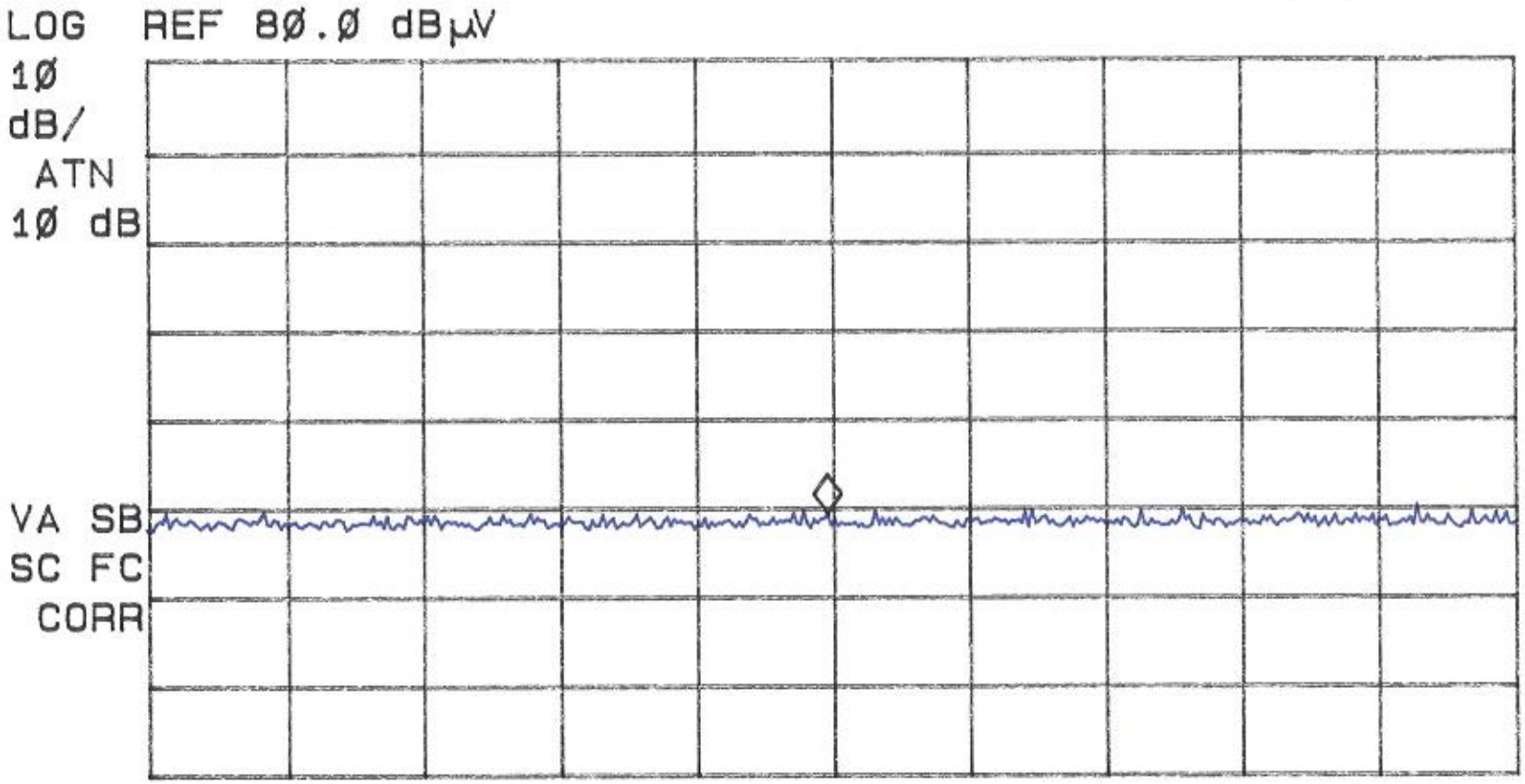
ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 3.6410 GHz
29.63 dBµV
PREAMP ON



CENTER 3.6400 GHz
SPAN 10.00 MHz
#IF BW 1.0 MHz
AVG BW 300 kHz
SWP 20.0 msec

10: 37: 38 JUN 25, 2013
GOJO#6425 LTX TALL FCCC HARM 5 V

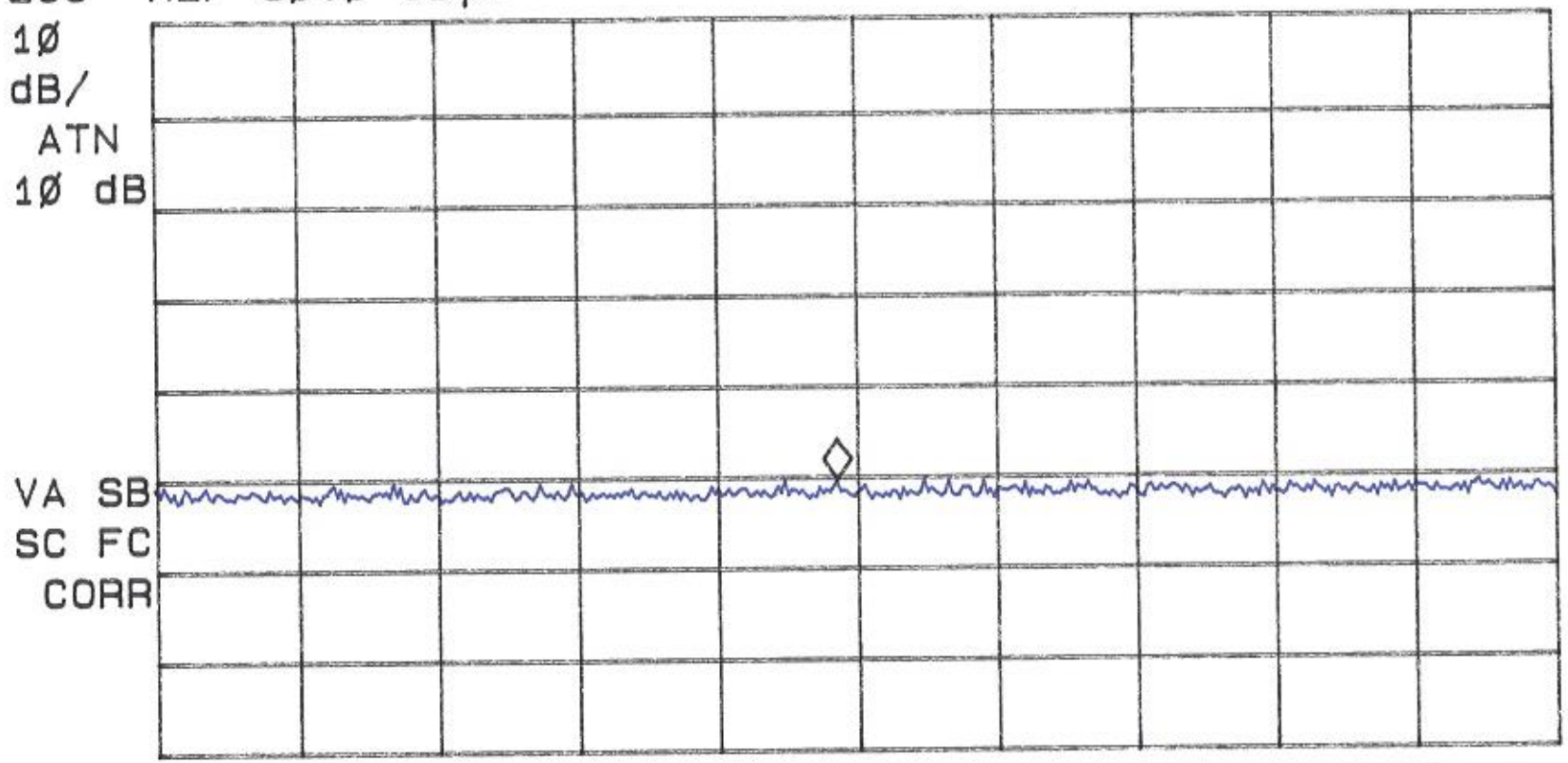
ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 4.54995 GHz
29.23 dBµV
PREAMP ON



CENTER 4.55000 GHz
SPAN 10.00 MHz
#IF BW 1.0 MHz
AVG BW 300 kHz
SWP 20.0 msec

10: 58: 51 JUN 25, 2013
GOJO#6425 LTX TALL FCCC HARM 6 V

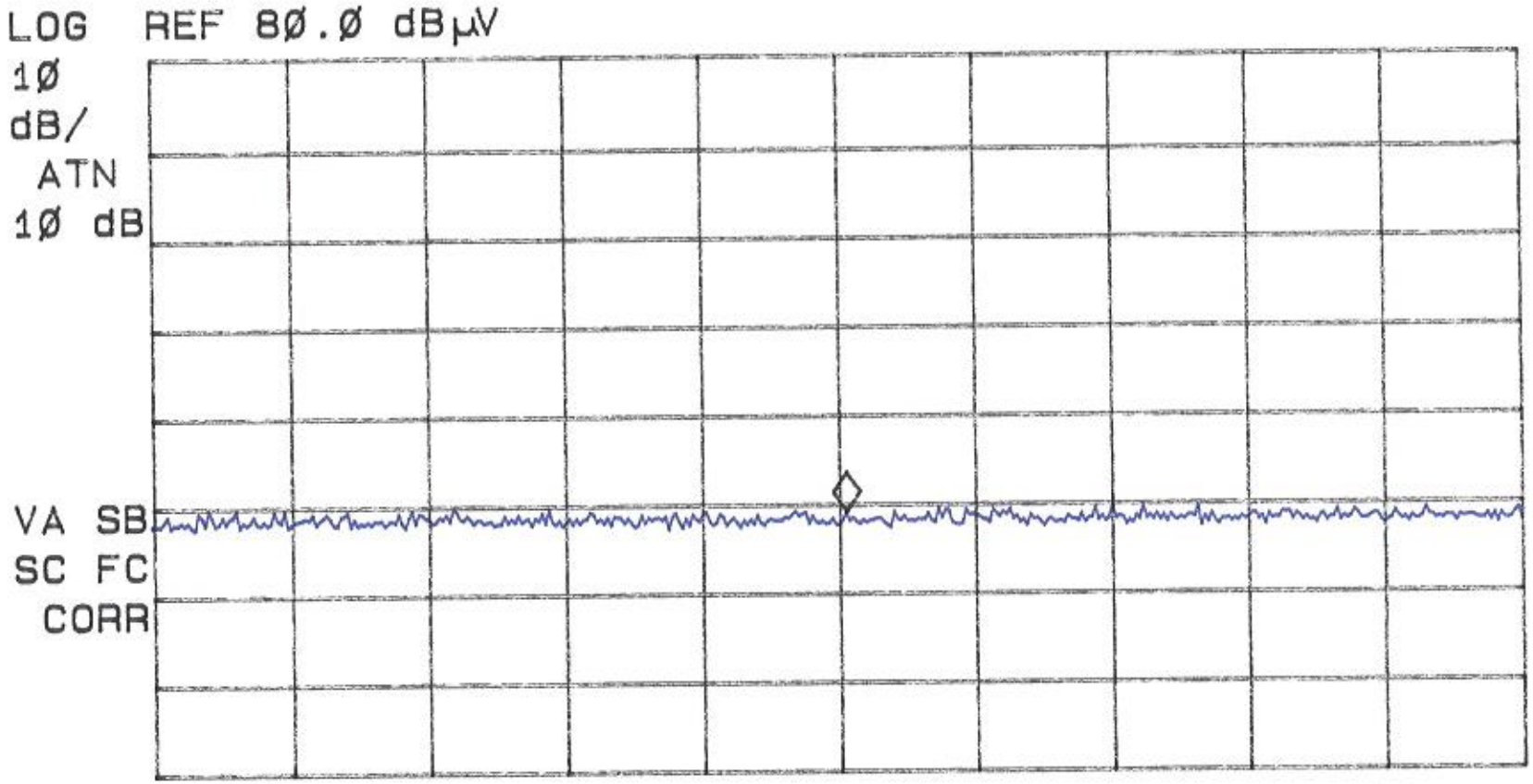
ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 5.45985 GHz
29.61 dBµV
PREAMP ON



CENTER 5.46000 GHz
#IF BW 1.0 MHz
AVG BW 300 kHz
SPAN 10.00 MHz
SWP 20.0 msec

11: Ø2: 47 JUN 25, 2Ø13
GOJO#6425 LTX TALL FCCC HARM 7 V

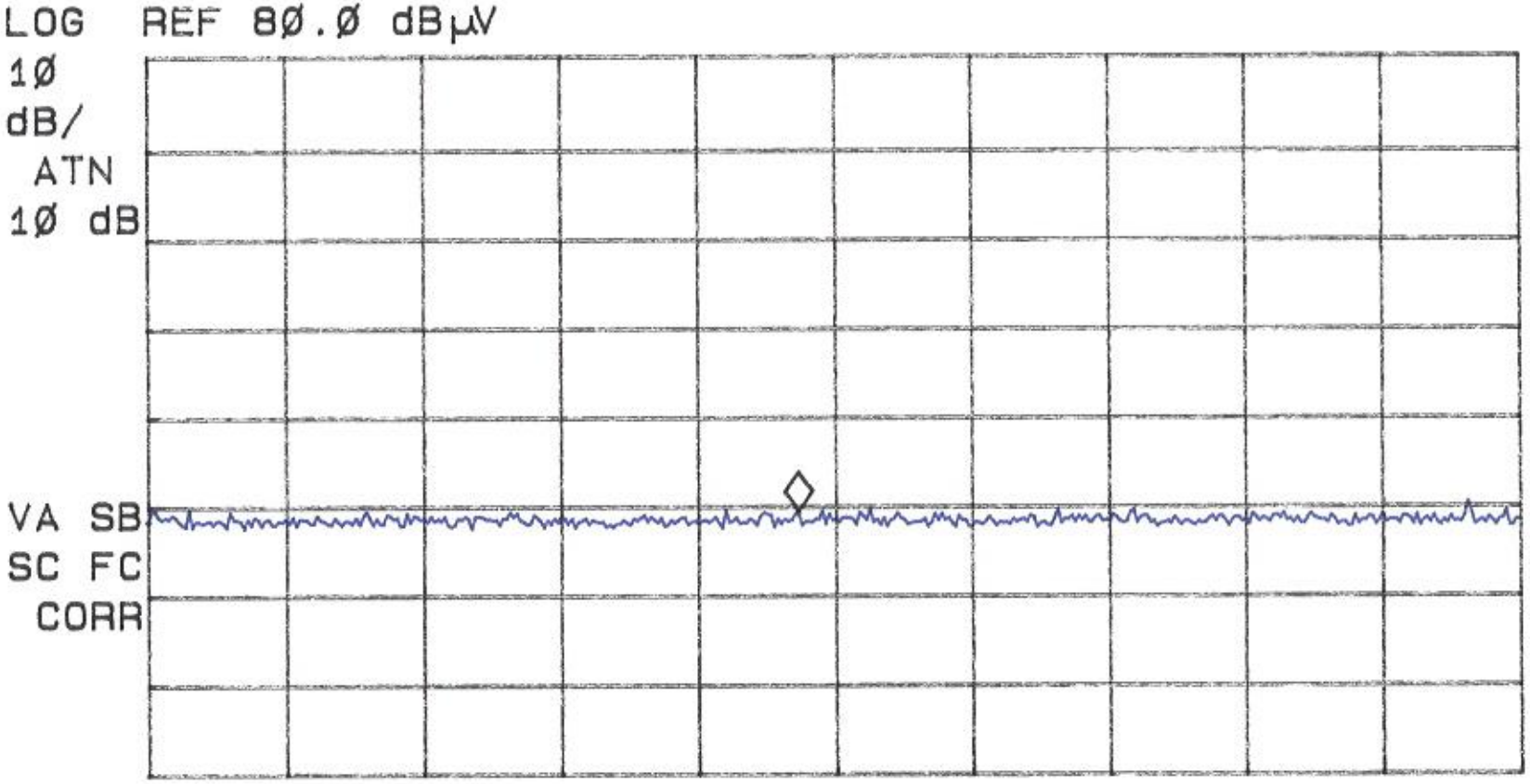
ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 6.37ØØ5 GHz
29.Ø7 dBµV
PREAMP ON



CENTER 6.37ØØØ GHz
#IF BW 1.Ø MHz
AVG BW 3ØØ kHz
SPAN 1Ø.ØØ MHz
SWP 2Ø.Ø msec

11: Ø9: 53 JUN 25, 2Ø13
GOJO#6425 LTX TALL FCCC HARM 8 V

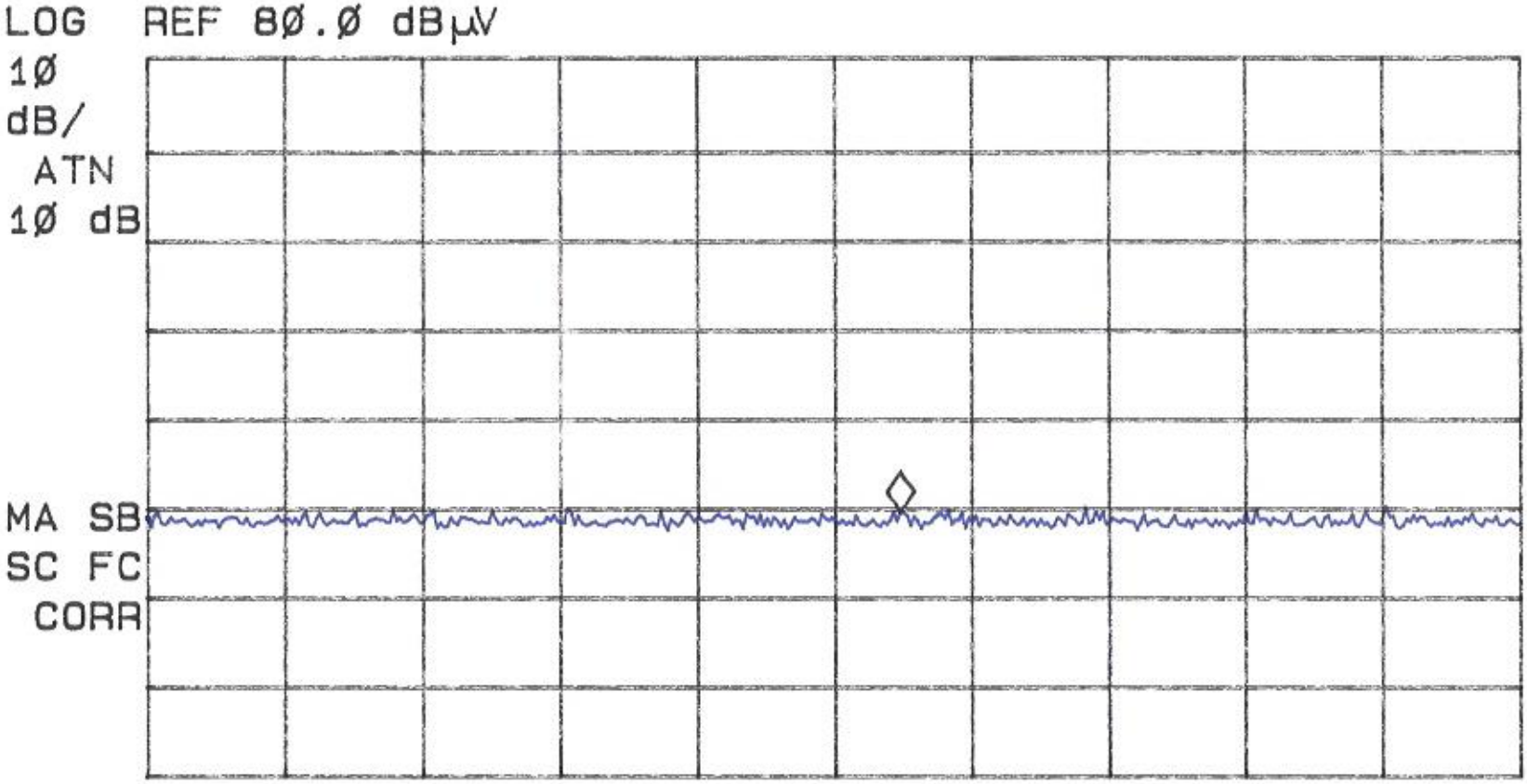
ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 7.27973 GHz
29.35 dBµV
PREAMP ON



CENTER 7.28ØØØ GHz
SPAN 1Ø.ØØ MHz
#IF BW 1.Ø MHz
AVG BW 3ØØ kHz
SWP 2Ø.Ø msec

11: 15: 34 JUN 25, 2013
GOJ0#6425 LTX TALL FCCC HARM 9 V

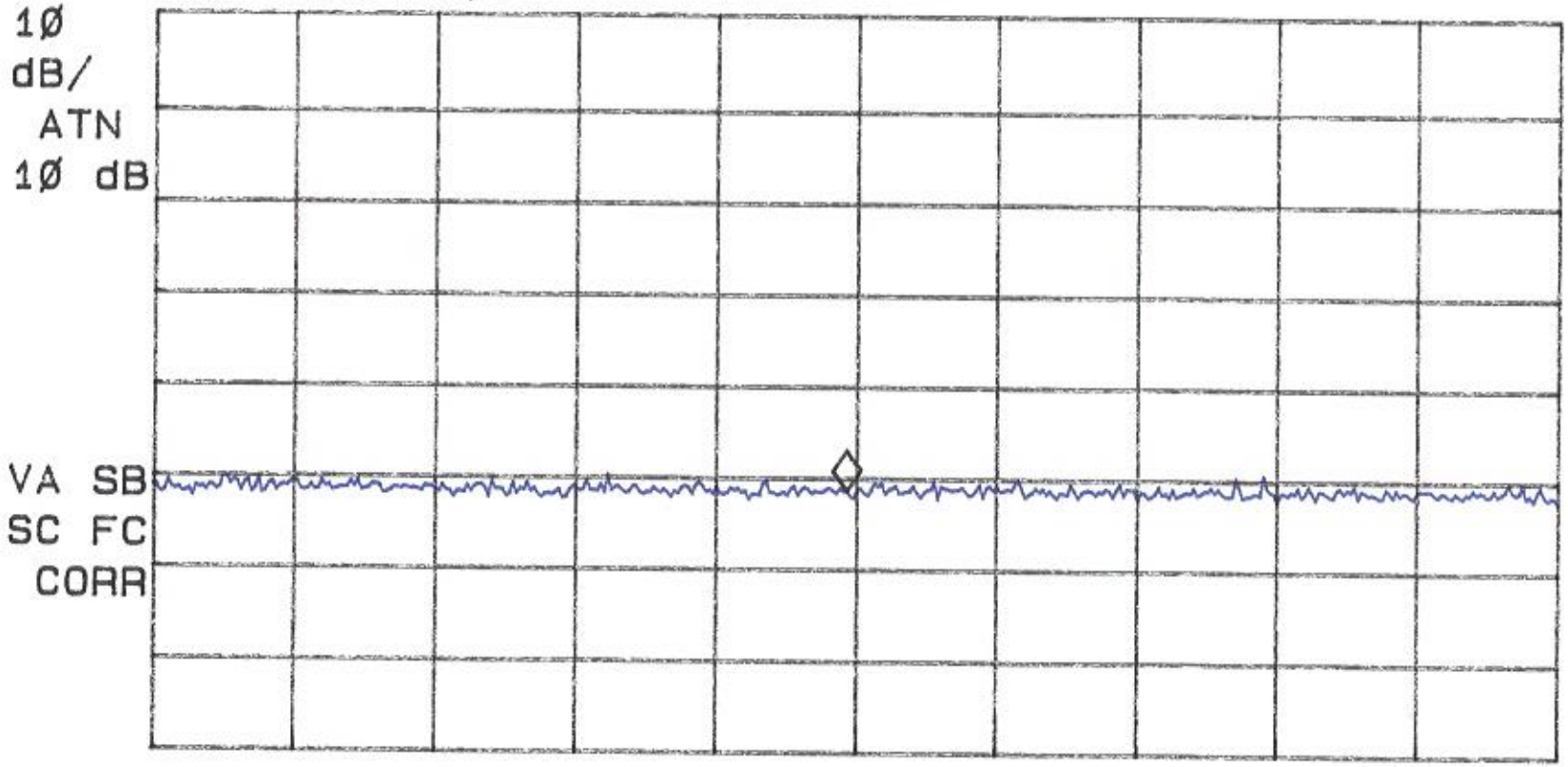
ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 8.19048 GHz
29.54 dBµV
PREAMP ON



CENTER 8.19000 GHz
SPAN 10.00 MHz
#IF BW 1.0 MHz
AVG BW 300 kHz
SWP 20.0 msec

11: 17: 49 JUN 25, 2013
GOJ0#6425 LTX TALL FCCC HARM 1Ø V

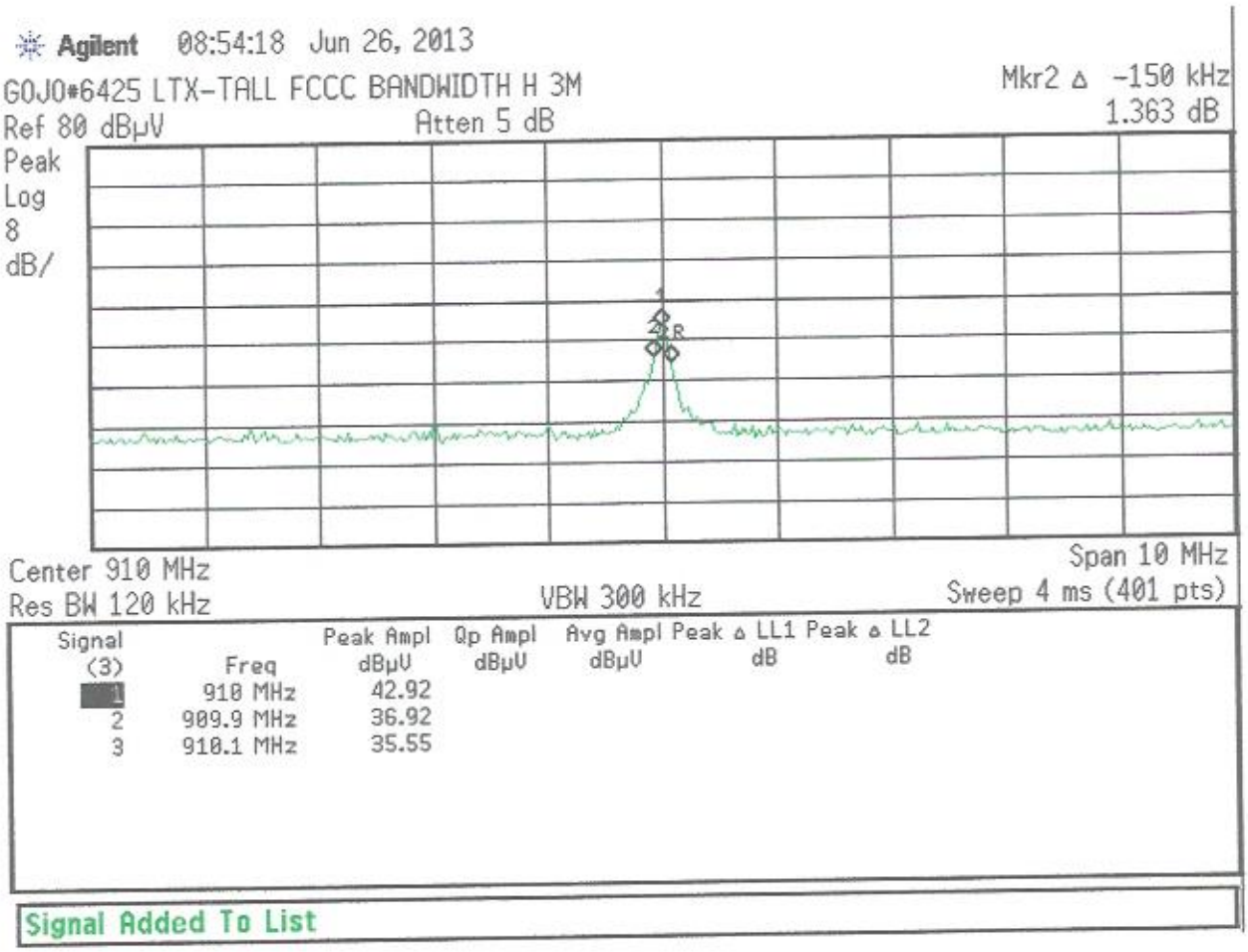
ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 9.Ø9993 GHz
28.47 dBµV
PREAMP ON

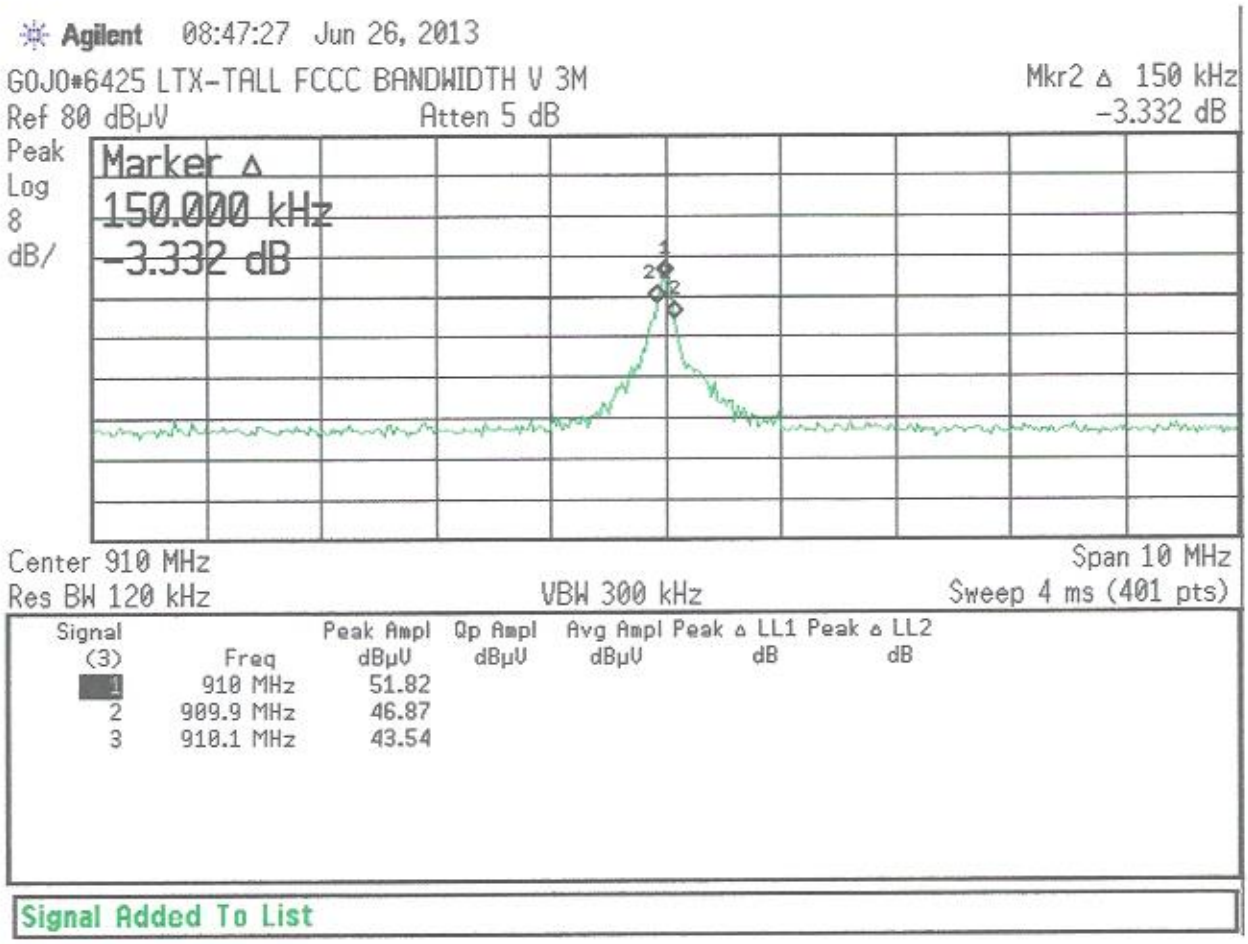


CENTER 9.1ØØØØ GHz
SPAN 1Ø.ØØ MHz
#IF BW 1.Ø MHz
AVG BW 3ØØ kHz
SWP 2Ø.Ø msec

Test Datasheets-Bandwidth Test Minimum 6dB Bandwidth less than 500 KHz

2 Pages of Data to Follow


Agilent 08:54:18 Jun 26, 2013
G0J0#6425 LTX-TALL FCCC BANDWIDTH H 3M
Mkr2 Δ -150 kHz
1.363 dB
Ref 80 dBµV
Atten 5 dB
Peak
Log
8
dB/
Center 910 MHz
Res BW 120 kHz
VBW 300 kHz
Span 10 MHz
Sweep 4 ms (401 pts)
Signal (3) Freq Peak Ampl dBµV Qp Ampl dBµV Avg Ampl dBµV Peak Δ LL1 dB Peak Δ LL2 dB
1 910 MHz 42.92
2 909.9 MHz 36.92
3 910.1 MHz 35.55
Signal Added To List


Agilent 08:47:27 Jun 26, 2013
GOJO#6425 LTX-TALL FCCC BANDWIDTH V 3M
Mkr2 Δ 150 kHz
Ref 80 dBµV
Atten 5 dB
-3.332 dB
Peak
Log
8
dB/
Marker Δ
150.000 kHz
-3.332 dB
Center 910 MHz
Span 10 MHz
Res BW 120 kHz
VBW 300 kHz
Sweep 4 ms (401 pts)
Signal (3) Freq Peak Ampl dBµV Qp Ampl dBµV Avg Ampl dBµV Peak Δ LL1 dB Peak Δ LL2 dB
1 910 MHz 51.82
2 909.9 MHz 46.87
3 910.1 MHz 43.54
Signal Added To List

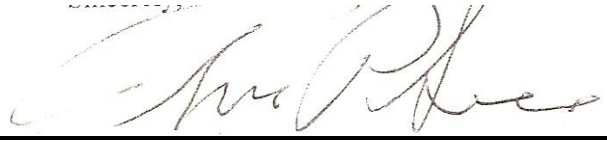
Measurement Protocol

The methodology used during the testing performed on the EUT in this report was ANSI C63.4:2009.

The EUT was powered with 6 Volts DC during the collection of data included within this report.

The data is compared to FCC Part 15.249 C limits.

Please have a company official review this report and sign.

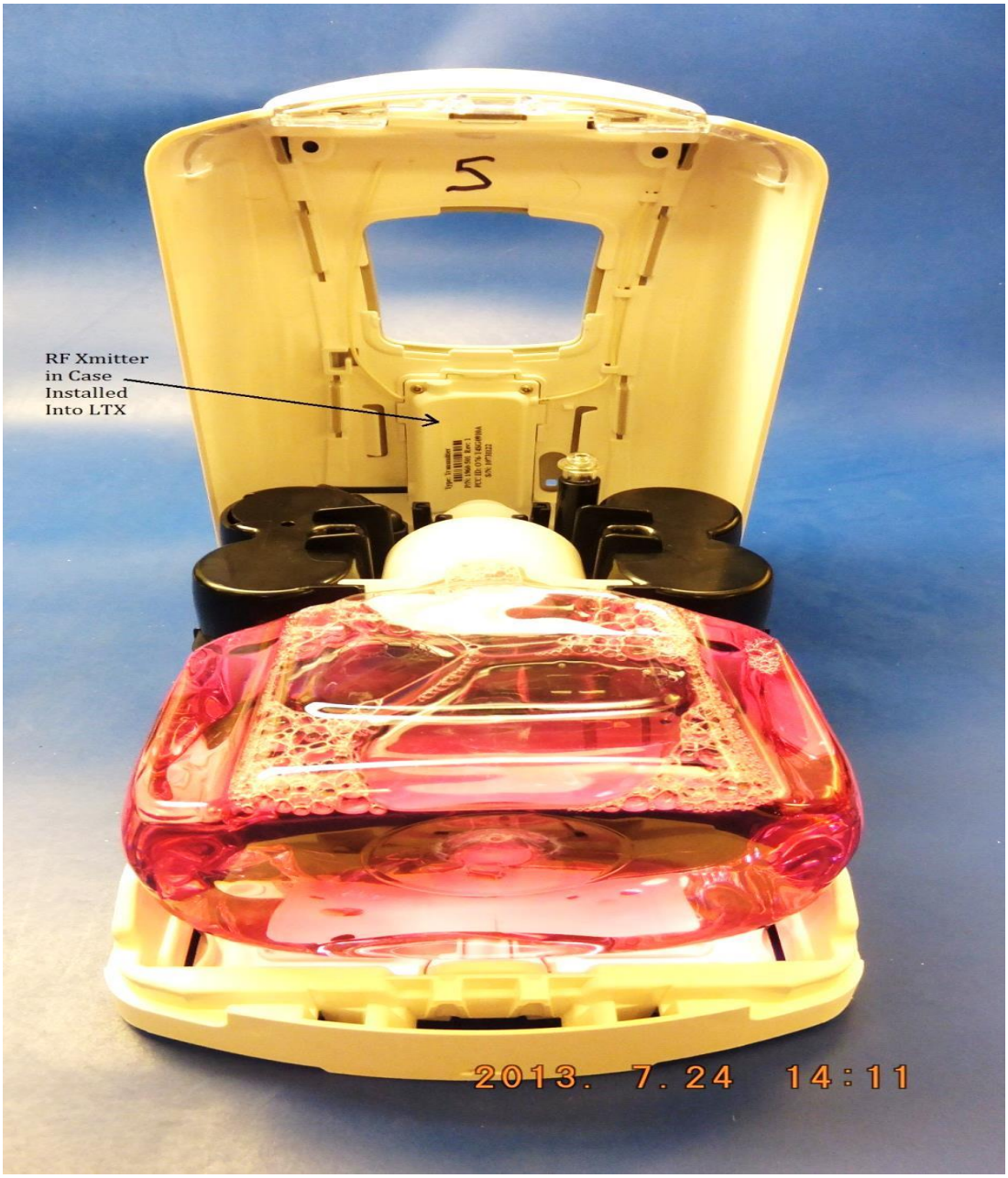


Annex

Limited Approval Wireless Transmitter Module P/N: 1960-501-WHT Rev. 004 and 1930-513-910 Rev. ABC February 15, 2014

Limited Approval Wireless Transmitter Module Installed into Smartlink Ready (LTX-7 13XX-##-YYY

Dispenser)



DWG. NO. 1960-013

REV	ECO ECR	REVISION	APRVD. BY	DATE
APPROVAL SIGNATURES ON FILE				

TYPE: TRANSMITTER GOJO Industries, Inc.

P/N: 1960-501-WHT Rev. 004

FCC ID: O76-T4SG0910A

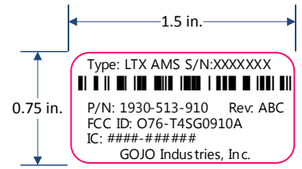
SN: XXXXXXX

- OR -

Type: LTX AMS S/N:XXXXXXX

P/N: 1930-513-910 Rev: ABC
FCC ID: O76-T4SG0910A
IC: ####-######
GOJO Industries, Inc.

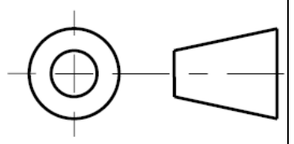
NOTES:
1. MATERIAL:
   FASSON 77113
   COLOR: WHITE
   FACESTOCK: 0.7 MIL CLEAR BOPP
   ADHESIVE: S2001
   LINER: 1.2 MIL PET
2. OVAL BOXED DIMENSIONS ARE CRITICAL.
3. BARCODE TO BE TYPE 128 TO CONTAIN SERIAL NUMBER
3. PART TO BE FREE OF DIRT, GREASE, OIL OR ANY FOREIGN MATERIAL
4. SHIPPING REQUIREMENTS:
   CAREFULLY PACKED TO AVOID DAMAGE IN QUANTITIES, IN UNIFORM SIZED SHIPPING CONTAINERS ON UNIFORM SIZED PALLET (48"LENGTH X 40"WIDTH X 66" TALL) CARTONS TO BE MARKED CLEARLY IN 1" HIGH MINIMUM LETTERS. WITH QUANTITY, GOJO PART, LOT, AND P.O. NUMBER.



SCALE 1:1

INTERPRET DRAWING PER ASME Y14.100
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

THIRD ANGLE PROJECTION



TOLERANCES:

DECIMALS:
X.X = 0.1
.X.XX = 0.01
.X.XXX = 0.005

FRACTIONS:
X/XX = 1/32

ANGLES:
X.X = 0.5
X.XX = 0.50

TITLE: FCC LABEL, LTX AMS
STATE: Developmental

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DRAWN BY: M. BULLOCK		SCALE 1:1	SHEET
DATE: 7/25/13		DO NOT SCALE	1 of 1
CHKD BY:	SIZE	DWG. NO.	REV
DATE:	B	1960-013	1

DWG. NO. 13XX-##-YYY

REV	ECO ECR	REVISION	APRVD. BY	DATE
APPROVAL SIGNATURES ON FILE				

13XX-##-YYY

Color option:
(blank) = Standard color
BLK = Chrome and black

Package option:
EA = Individual unit
= Pack-out quantity

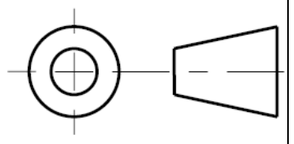
Brand:
30 = PURELL®
31 = PROVON®

Family Identifier:
13 = SMARTLINK™ Ready LTX-7™ dispenser family

Example:
1331-04-BLK = PROVON® SMARTLINK™ Ready LTX-7™ dispenser, chrome and black, 4-pack

INTERPRET DRAWING PER ASME Y14.100
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES

THIRD ANGLE PROJECTION



TITLE: SMARTLINK™ Ready LTX-7™ dispenser part numbering
STATE: Developmental

TOLERANCES:

DECIMALS:
X.X = 0.1
.X.XX = 0.01
.X.XXX = 0.005

FRACTIONS:
X/XX = 1/32

ANGLES:
X.X = 0.5
X.XX = 0.50

DRAWN BY: M. BULLOCK		SCALE 1:1	SHEET
DATE: 1/22/14		DO NOT SCALE	1 of 1
CHKD BY:	SIZE	DWG. NO.	REV
DATE:	B	13XX-##-YYY	1

Duty Cycle Chart