

ENGINEERING TECHNICAL DOCUMENT

PARA/TO:	DE/FROM:
TIMCO	JLR
ORGANIZACIÓN/ORGANIZATION:	FECHA/DATE:
TIMCO	January 10th 2023
ASUNTO/SUBJECT:	Nº DE REFERENCIA / REFERENCE NUMBER:
EM1K Power and Spurious Test	IT-2023011001

1. INDEX

1. INDEX	1
2. DESCRIPTION OF THE EUT	1
3. TEST EQUIPMENT USED	1
4. MEASUREMENTS	3
4.1. RF POWER OUTPUT	3
4.1.1. RF Output Power Plot, 88MHz	3
4.1.2. RF Output Power Plot, 98MHz	4
4.1.3. RF Output Power Plot, 108MHz	5
4.2. SPURIOUS EMISSIONS AT ANTENNA TERMINALS (CONDUCTED)	6
4.2.1. Spurious Emissions, 88MHz	6
4.2.2. Spurious Emissions, 98MHz	7
4.2.3. Spurious Emissions, 108MHz	8
5. TEST SET PICTURES	9

2. DESCRIPTION OF THE EUT

Identification	
FCC ID:	KEUEM1KD1G
Brief Description	1KW FM Broadcast Transmitter
Model	EM 1K HE CMT DIG PLUS
Serial Number	23801002

3. TEST EQUIPMENT USED

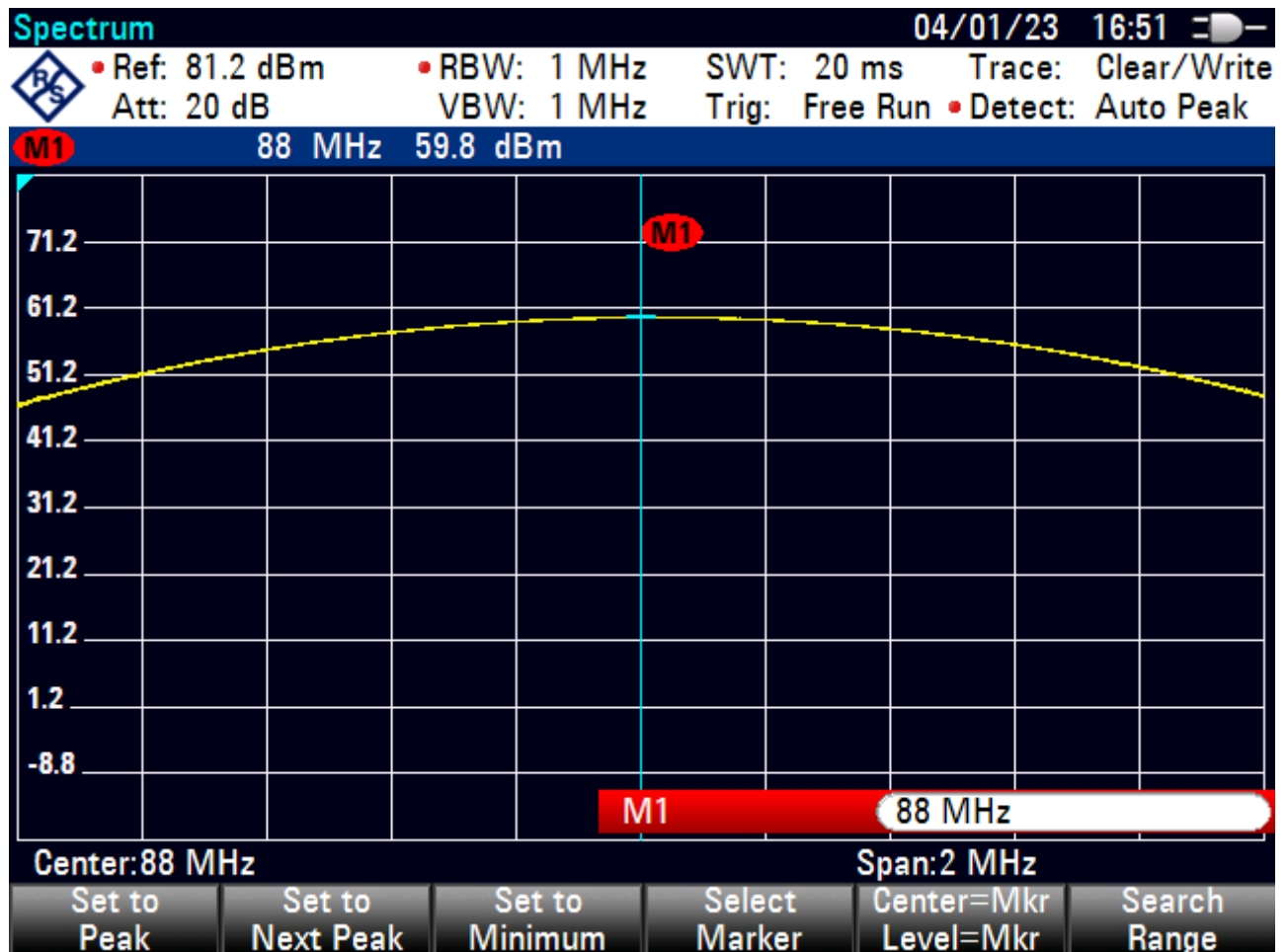
Test Equipment				
Device	Manufacturer	Model	Serial N#	Current Cal.
Spectrum Analyzer	Rohde&Schwarz	FSH8 1309.6000K28	115896	2022-Oct-07

4. MEASUREMENTS

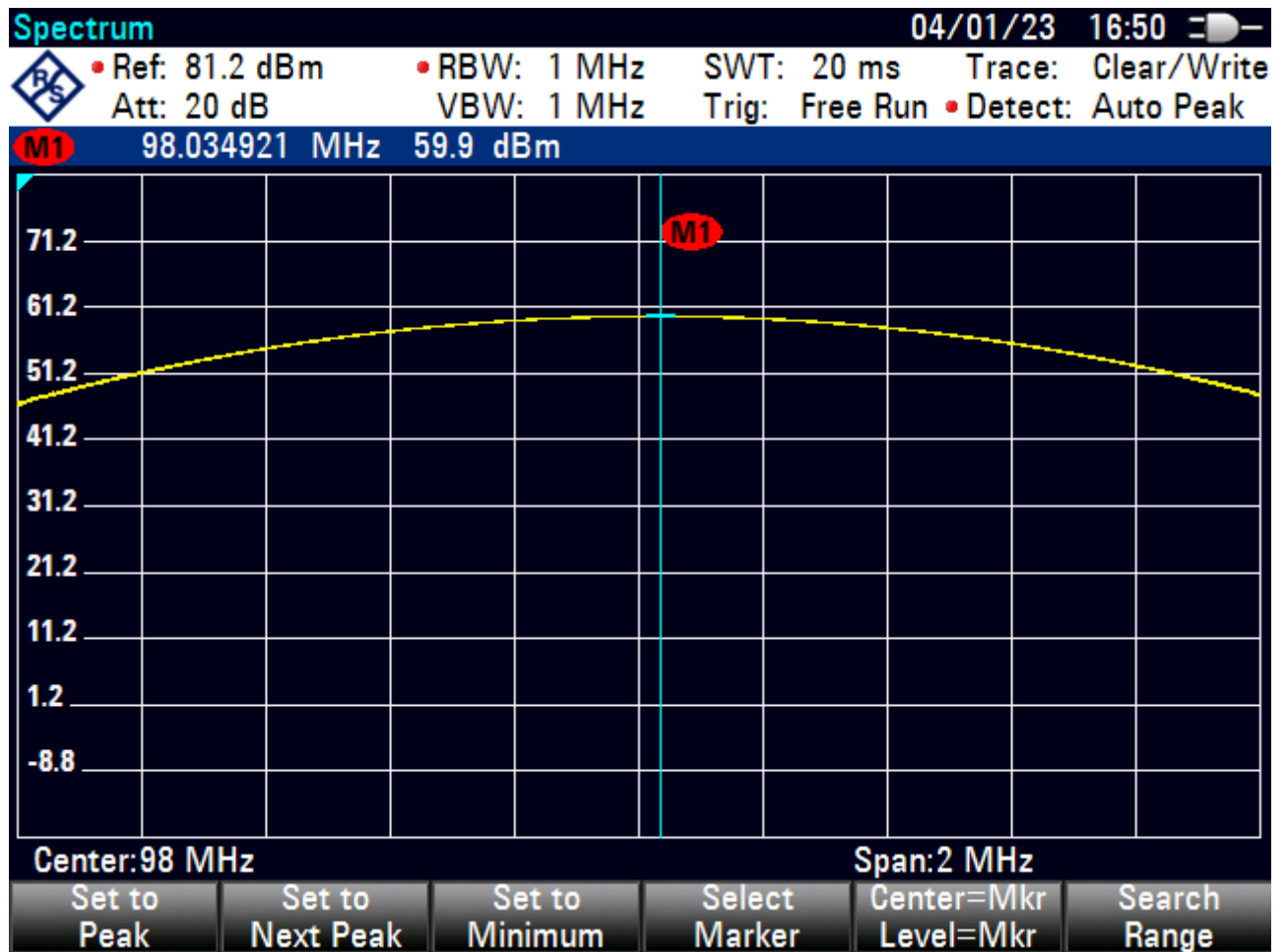
4.1. RF POWER OUTPUT

Frequency (MHz)	Power Output (dBm)	Power Output (W)
88	59.8	954.99
98	59.9	977.27
108	59.8	954.99

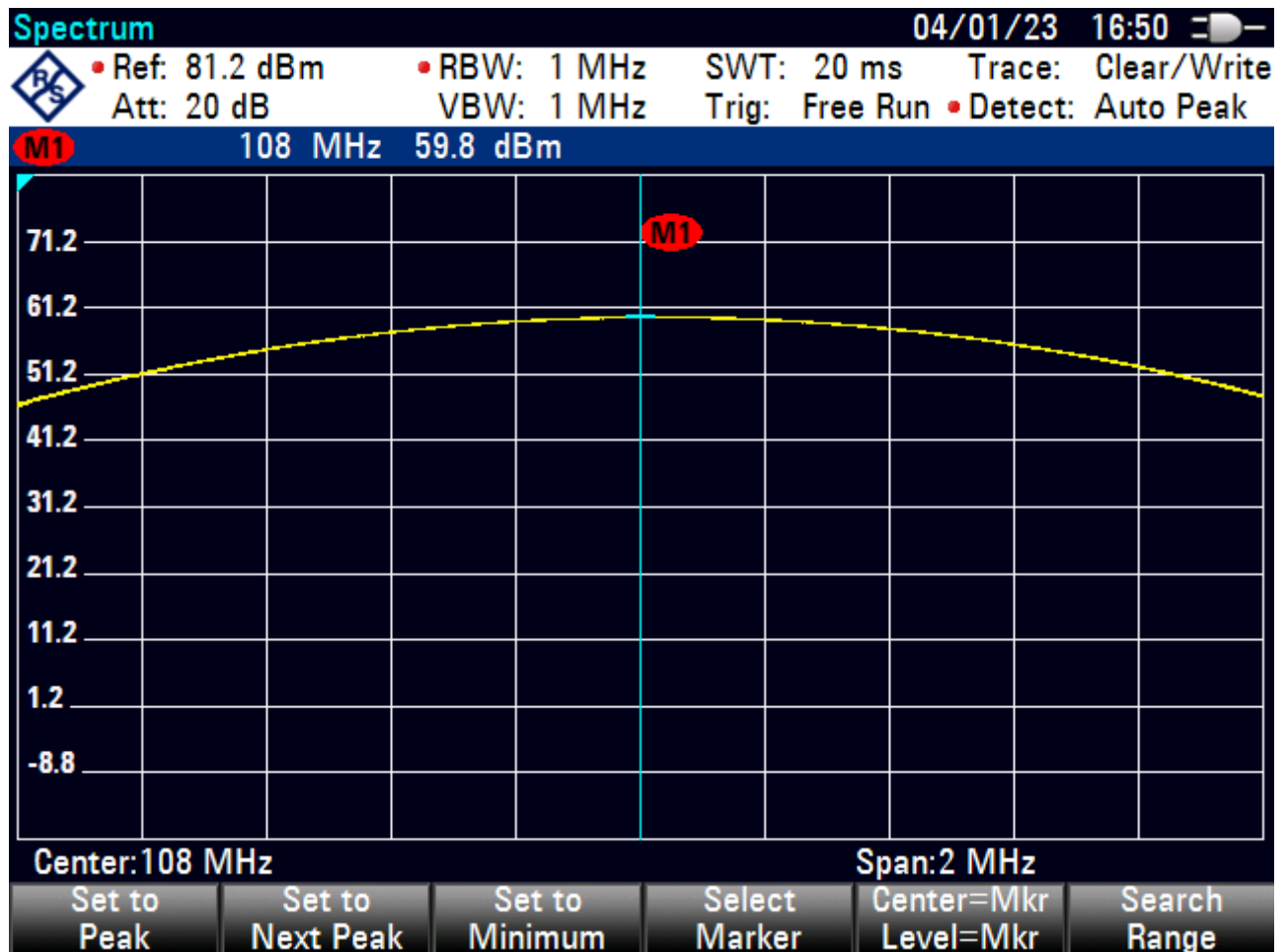
4.1.1. RF OUTPUT POWER PLOT, 88MHZ



4.1.2. RF OUTPUT POWER PLOT, 98MHZ

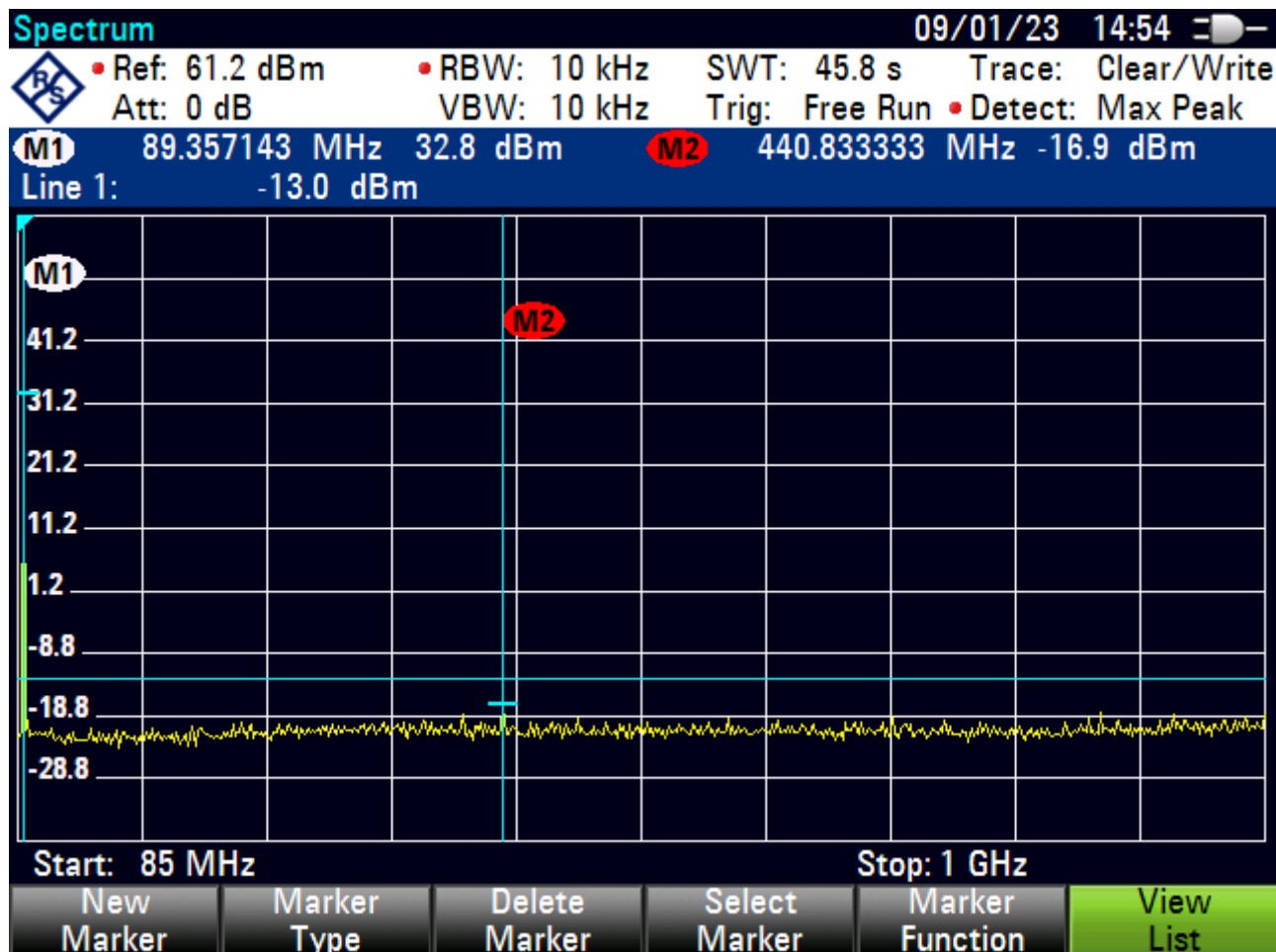


4.1.3. RF OUTPUT POWER PLOT, 108MHZ

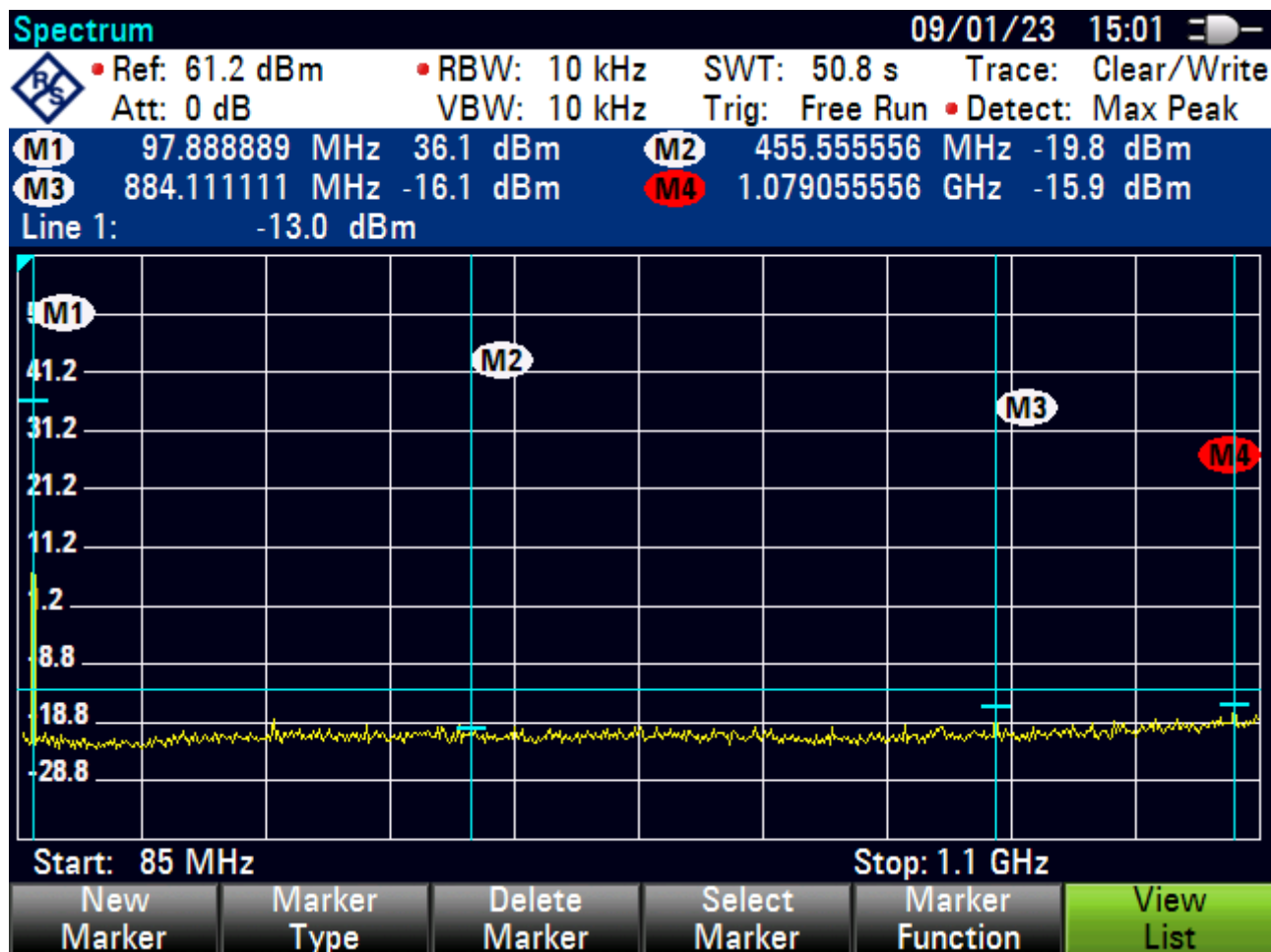


4.2. SPURIOUS EMISSIONS AT ANTENNA TERMINALS (CONDUCTED)

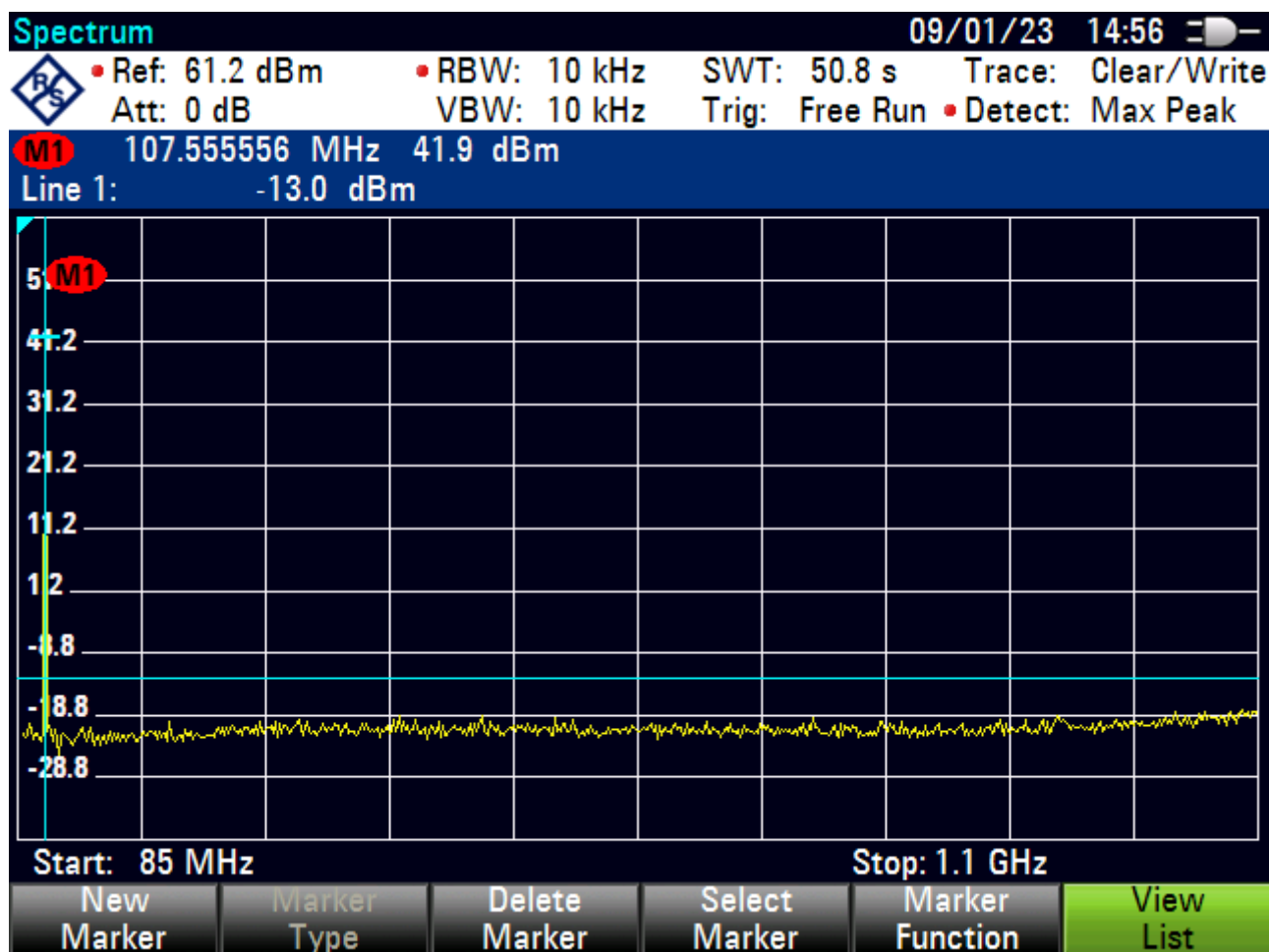
4.2.1. SPURIOUS EMISSIONS, 88MHZ



4.2.2. SPURIOUS EMISSIONS, 98MHZ



4.2.3. SPURIOUS EMISSIONS, 108MHZ



5. TEST SET PICTURES

