

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU011121\
 Data File : VU041956.D
 Acq On : 12 Jan 2021 05:47
 Operator : SY/MD
 Sample : M1027-19
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BFXN7

Quant Time: Jan 12 07:34:46 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR011121WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Jan 12 05:50:11 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	116211	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	110047	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	41731	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	46484	4.74	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	94.80%
7) Chloroethane-d5	1.92	69	44421	4.90	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	98.00%
11) 1,1-Dichloroethene-d2	2.58	63	143316	7.72	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	154.40%#
20) 2-Butanone-d5	4.66	46	174615	64.15	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	128.30%
24) Chloroform-d	5.08	84	89878	5.03	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	100.60%
26) 1,2-Dichloroethane-d4	5.72	65	54043	5.74	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	114.80%
32) Benzene-d6	5.74	84	175748	5.40	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	108.00%
36) 1,2-Dichloropropane-d6	6.70	67	59359	5.81	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	116.20%
41) Toluene-d8	7.90	98	139502	4.73	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.60%
43) trans-1,3-Dichloropropene-	8.18	79	22126	5.19	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	103.80%
46) 2-Hexanone-d5	8.64	63	157300	72.93	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	145.86%#
57) 1,1,2,2-Tetrachloroethane-	10.75	84	45094	4.99	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	99.80%
64) 1,2-Dichlorobenzene-d4	12.19	152	45706	5.79	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	115.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	23511	2.092	ug/L 99
3) Chloromethane	1.52	50	1076	0.088	ug/L 97
5) Vinyl chloride	1.61	62	1111	0.084	ug/L # 18
9) Trichlorofluoromethane	2.15	101	673	0.039	ug/L 88
10) 1,1,2-Trichloro-1,2,2-trif	2.58	101	1373	0.147	ug/L # 49
12) 1,1-Dichloroethene	2.59	96	140779	15.517	ug/L # 76
13) Acetone	2.66	43	3268	1.849	ug/L 73
19) 1,1-Dichloroethane	3.89	63	11512	0.696	ug/L 99
22) cis-1,2-Dichloroethene	4.68	96	36257	3.854	ug/L 99
25) Chloroform	5.10	83	7356	0.427	ug/L 97
27) 1,2-Dichloroethane	5.81	62	1553	0.141	ug/L # 73
29) 1,1,1-Trichloroethane	5.33	97	56725	3.950	ug/L 97
31) Carbon tetrachloride	5.54	117	1940	0.156	ug/L 92
33) Benzene	5.79	78	1743	0.049	ug/L 100
34) Trichloroethene	6.55	95	725031	77.876	ug/L 94
35) Methylcyclohexane	6.70	83	13667	0.999	ug/L # 17
37) 1,2-Dichloropropane	6.80	63	2773	0.314	ug/L # 88

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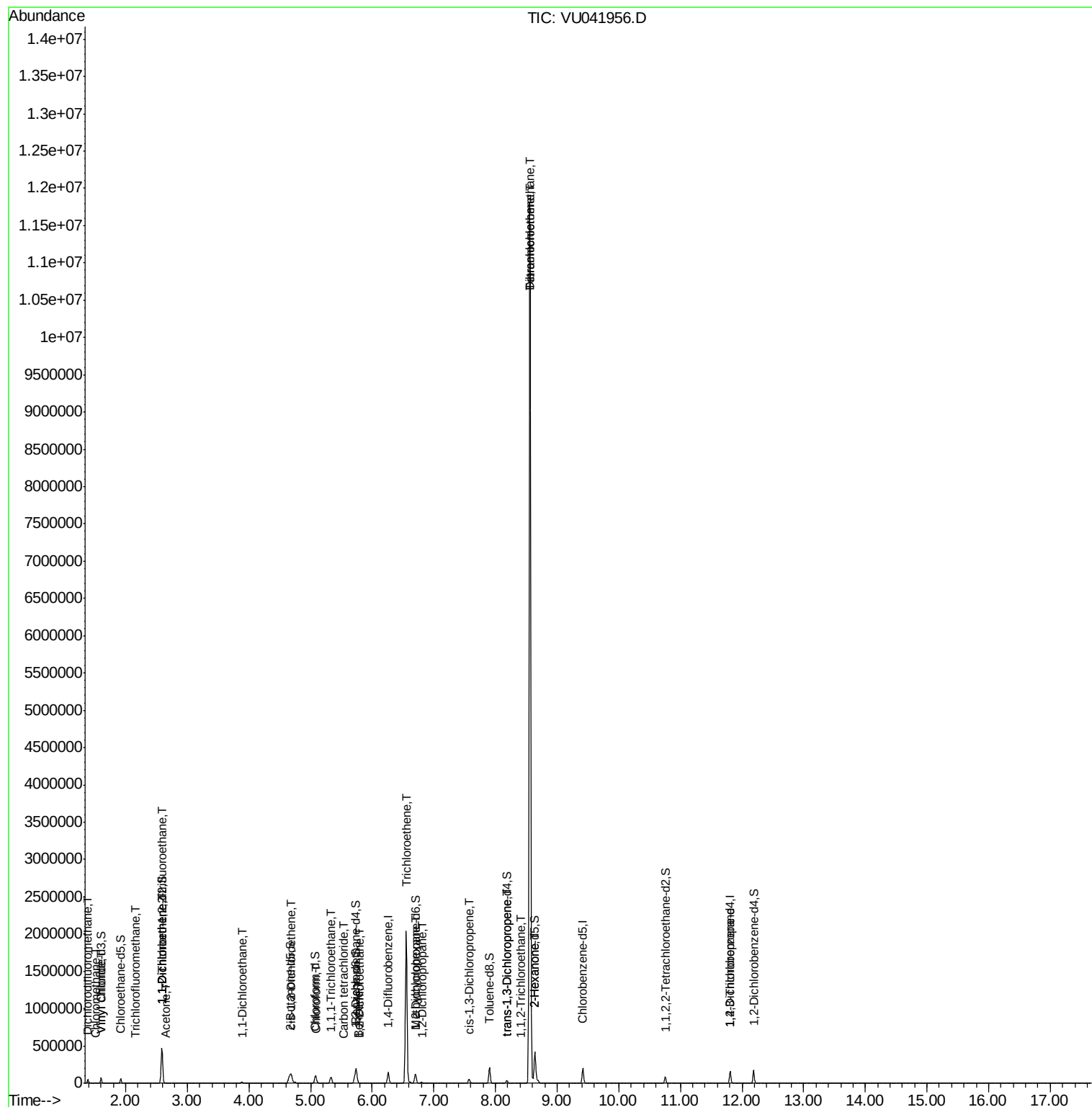
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) cis-1,3-Dichloropropene	7.57	75	1452	0.111	ug/L	91
44) trans-1,3-Dichloropropene	8.18	75	888	0.077	ug/L	84
45) 1,1,2-Trichloroethane	8.41	97	1398	0.206	ug/L	91
47) Tetrachloroethene	8.56	164	2459960	379.719	ug/L	98
48) 2-Hexanone	8.64	43	17237	4.164	ug/L #	70
49) Dibromochloromethane	8.56	129	2517413	305.051	ug/L #	10
59) 1,2,3-Trichloropropane	11.81	75	5272	0.816	ug/L	96

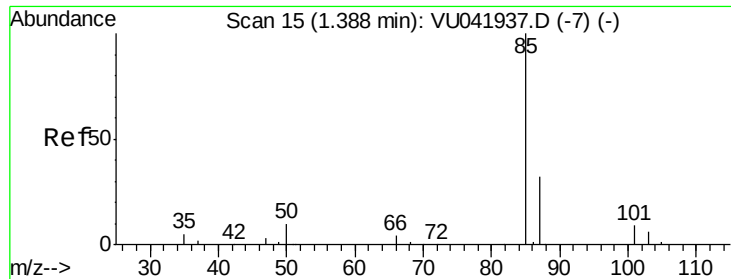
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 2.092 ug/L

RT: 1.39 min Scan# 15

Delta R.T. -0.00 min

Lab File: VU041956.D

Acq: 12 Jan 2021 05:47

Instrument :

MSVOA_U

ClientSampleId :

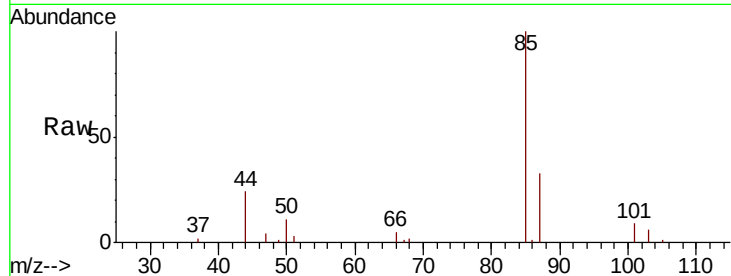
BFXN7

Tot Ion: 85 Resp: 23511

Ion Ratio Lower Upper

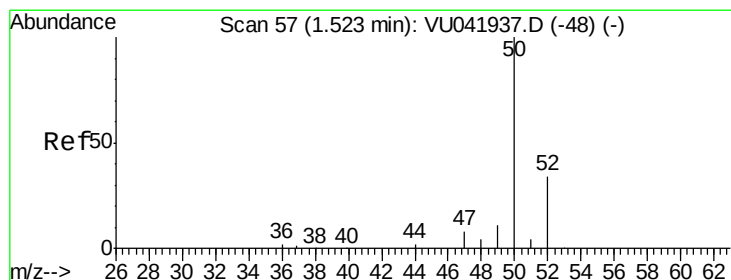
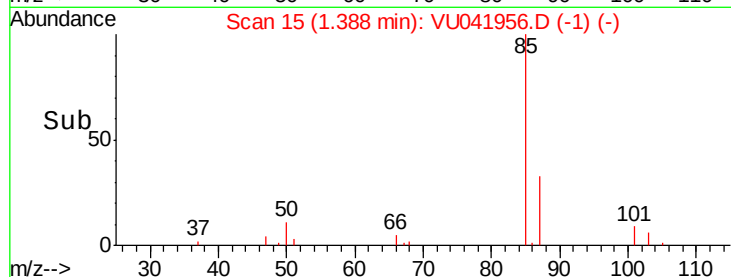
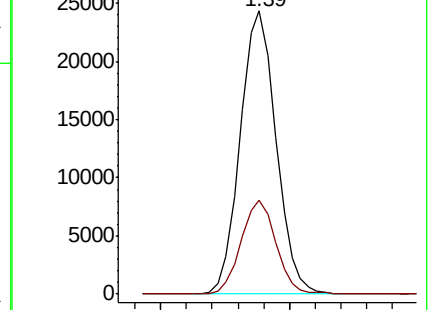
85 100

87 32.3 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VU041937.D (-7) (-)

Ion 87.00 (86.70 to 87.70): VU041937.D (-7) (-)



#3

Chloromethane

Concen: 0.088 ug/L

RT: 1.52 min Scan# 57

Delta R.T. -0.00 min

Lab File: VU041956.D

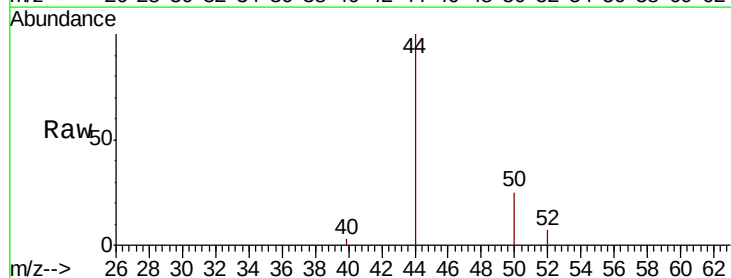
Acq: 12 Jan 2021 05:47

Tgt Ion: 50 Resp: 1076

Ion Ratio Lower Upper

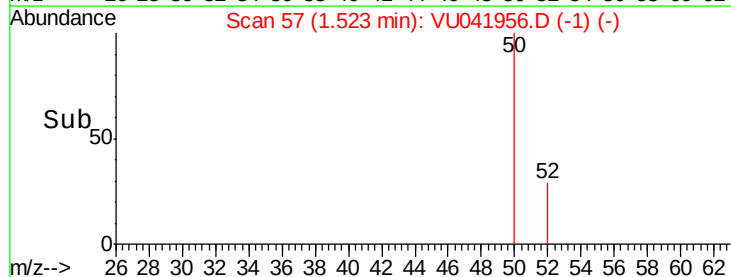
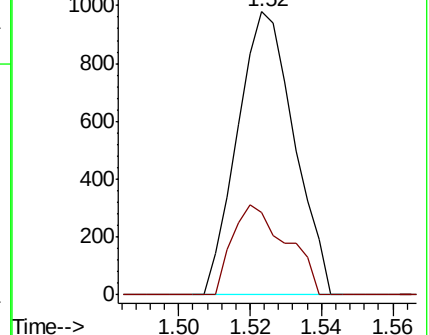
50 100

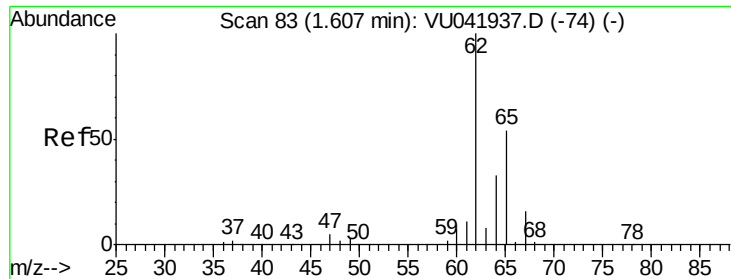
52 28.9 21.4 39.8



Abundance Ion 50.05 (49.75 to 50.75): VU041937.D (-48) (-)

Ion 52.05 (51.75 to 52.75): VU041937.D (-48) (-)





#5

Vinyl chloride

Concen: 0.084 ug/L

RT: 1.61 min Scan# 83

Delta R.T. -0.00 min

Lab File: VU041956.D

Acq: 12 Jan 2021 05:47

Instrument :

MSVOA_U

ClientSampleId :

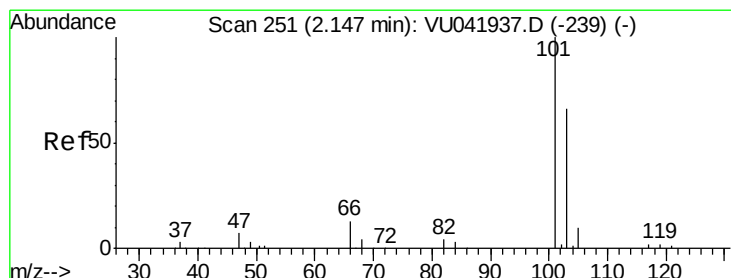
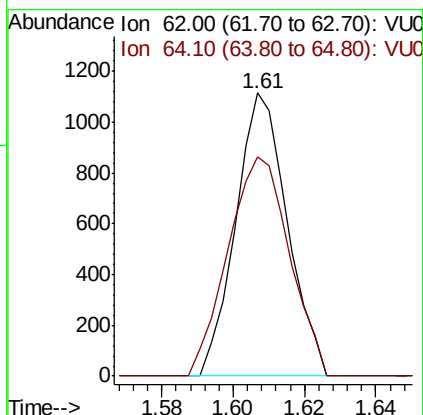
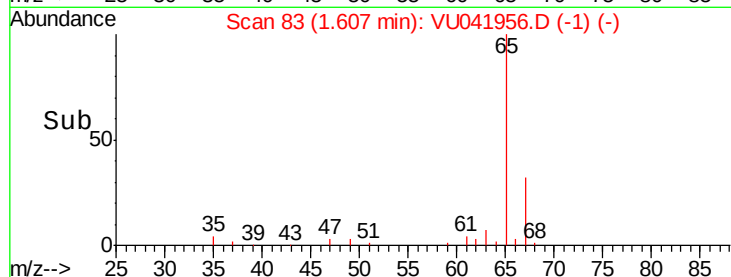
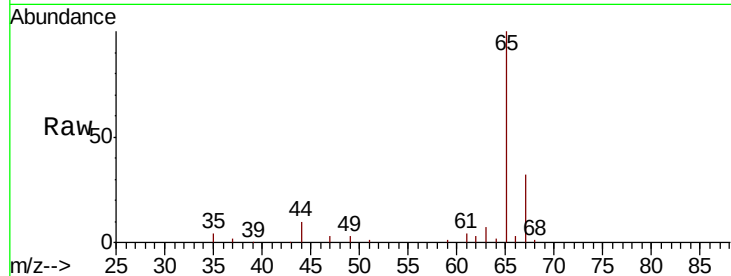
BFXN7

Tot Ion: 62 Resp: 1111

Ion Ratio Lower Upper

62 100

64 77.4 22.2 41.2#



#9

Trichlorofluoromethane

Concen: 0.039 ug/L

RT: 2.15 min Scan# 251

Delta R.T. -0.00 min

Lab File: VU041956.D

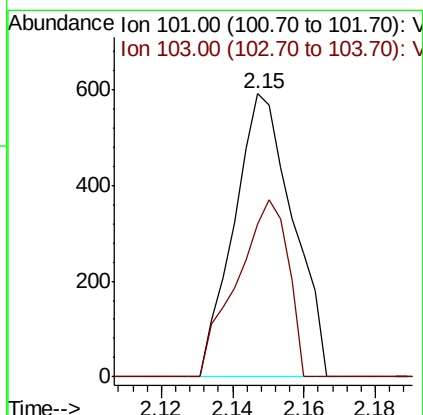
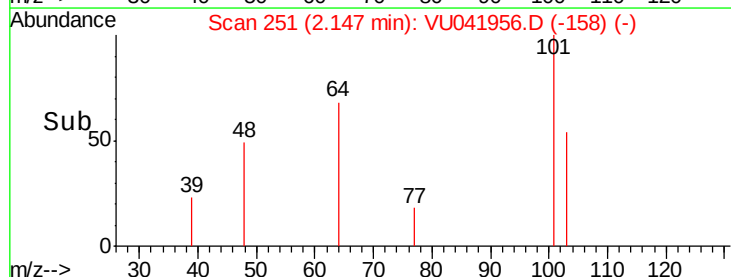
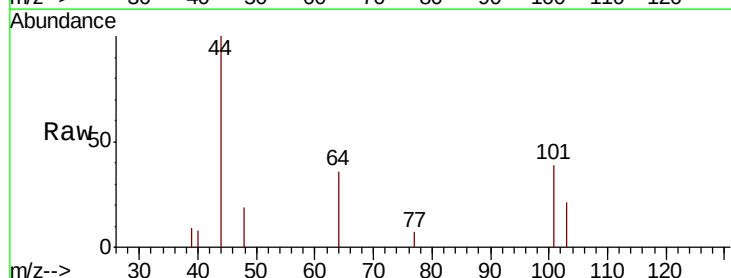
Acq: 12 Jan 2021 05:47

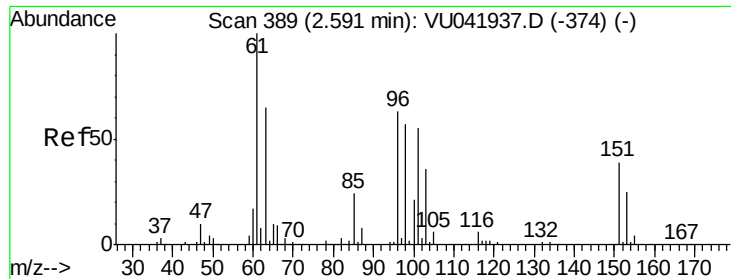
Tgt Ion: 101 Resp: 673

Ion Ratio Lower Upper

101 100

103 54.7 51.3 76.9





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.147 ug/L

RT: 2.58 min Scan# 387

Delta R.T. -0.01 min

Lab File: VU041956.D

Acq: 12 Jan 2021 05:47

Instrument :

MSVOA_U

ClientSampleId :

BFXN7

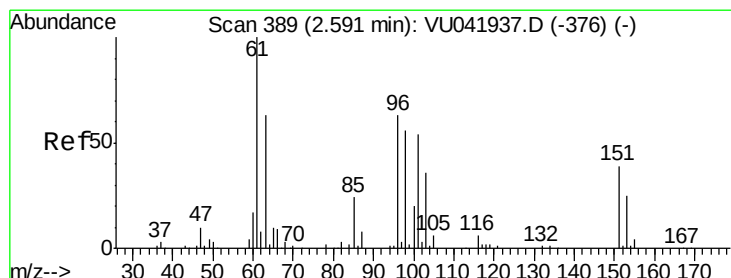
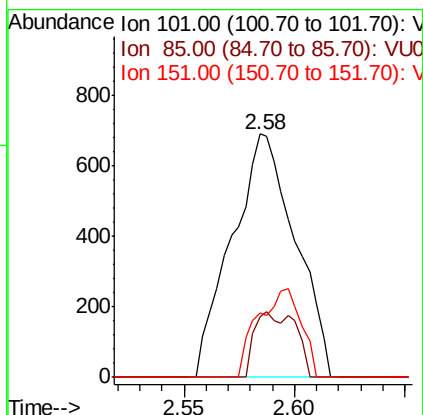
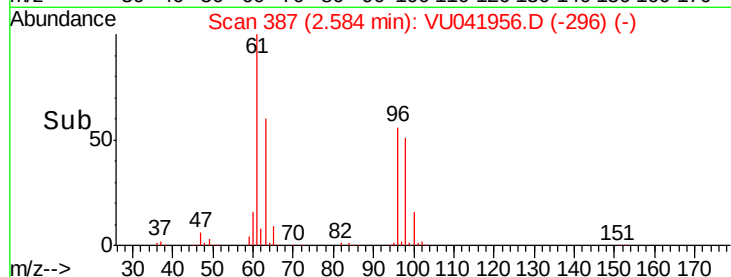
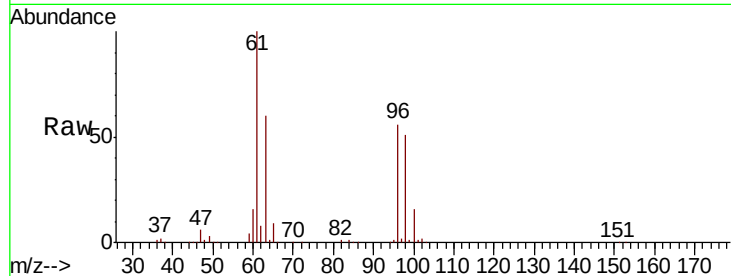
Tot Ion:101 Resp: 1373

Ion Ratio Lower Upper

101 100

85 17.4 35.1 52.7#

151 25.1 58.2 87.2#



#12

1,1-Dichloroethene

Concen: 15.517 ug/L

RT: 2.59 min Scan# 389

Delta R.T. -0.00 min

Lab File: VU041956.D

Acq: 12 Jan 2021 05:47

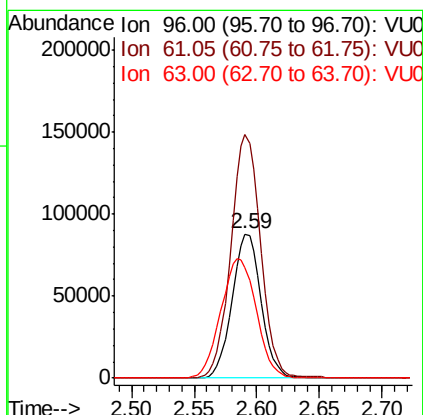
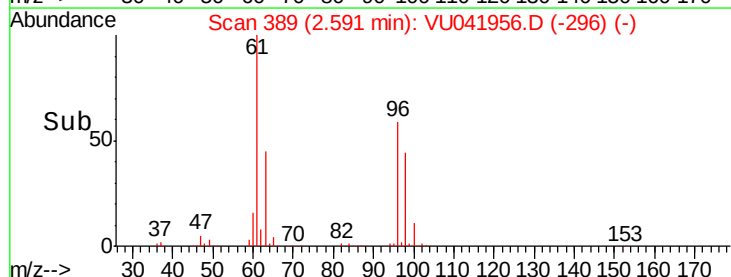
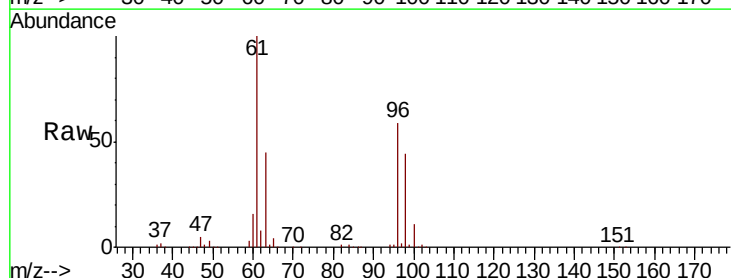
Tgt Ion: 96 Resp: 140779

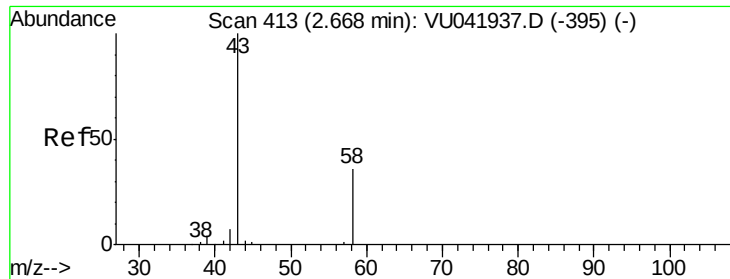
Ion Ratio Lower Upper

96 100

61 169.2 123.5 229.4

63 77.0 93.5 173.7#





#13

Acetone

Concen: 1.849 ug/L

RT: 2.66 min Scan# 411

Delta R.T. -0.01 min

Lab File: VU041956.D

Acq: 12 Jan 2021 05:47

Instrument :

MSVOA_U

ClientSampleId :

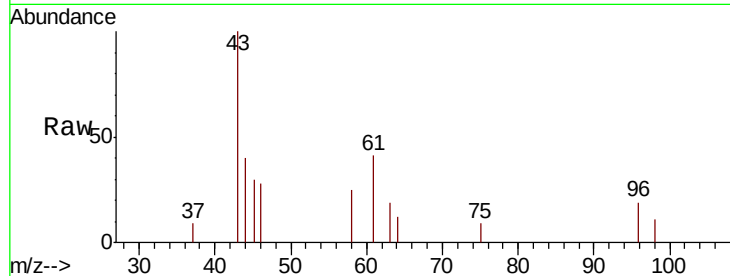
BFXN7

Tot Ion: 43 Resp: 3268

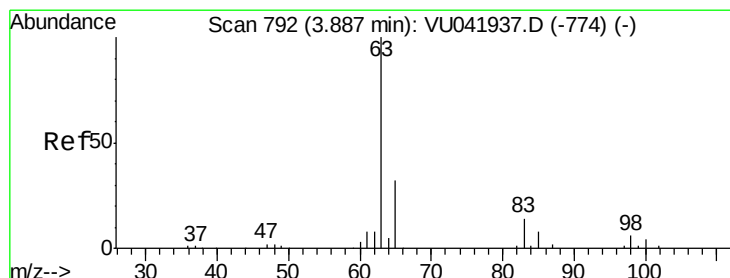
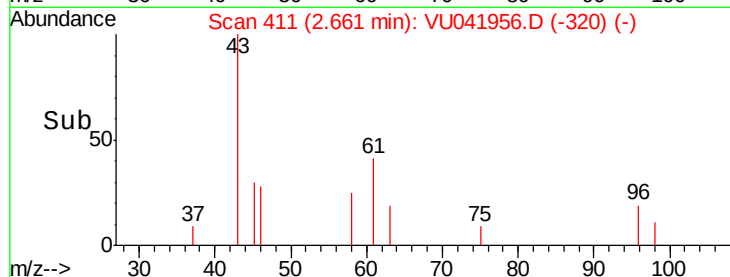
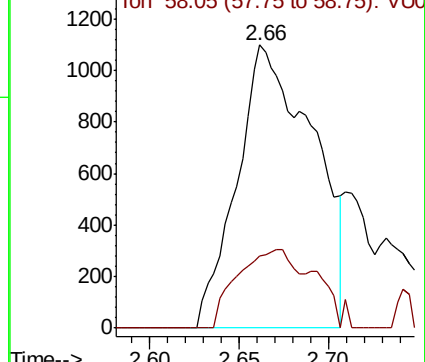
Ion Ratio Lower Upper

43 100

58 22.2 0.0 23.6



Abundance Ion 43.05 (42.75 to 43.75): VU041937.D (-395) (-)



#19

1,1-Dichloroethane

Concen: 0.696 ug/L

RT: 3.89 min Scan# 792

Delta R.T. -0.00 min

Lab File: VU041956.D

Acq: 12 Jan 2021 05:47

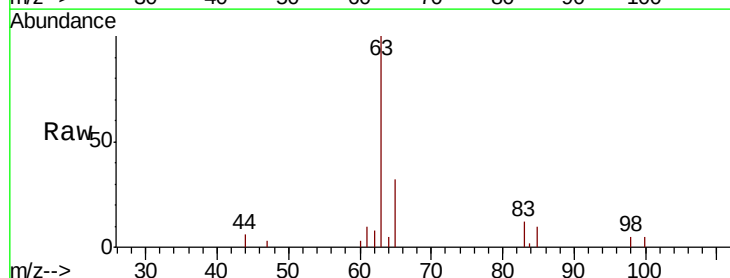
Tgt Ion: 63 Resp: 11512

Ion Ratio Lower Upper

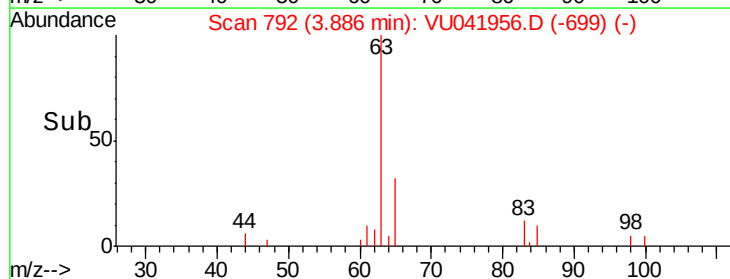
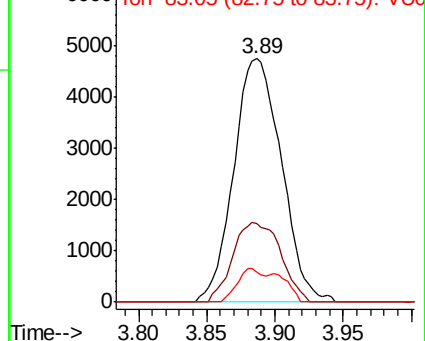
63 100

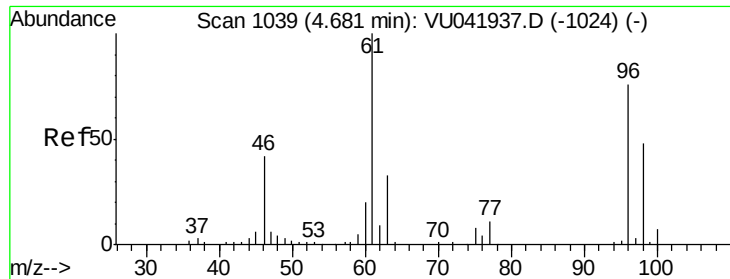
65 32.1 22.3 41.5

83 12.2 9.0 16.8



Abundance Ion 63.10 (62.80 to 63.80): VU041937.D (-774) (-)

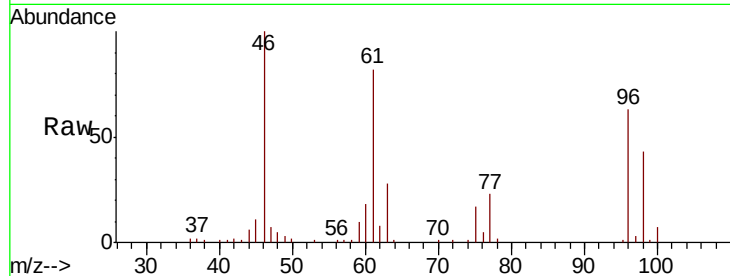




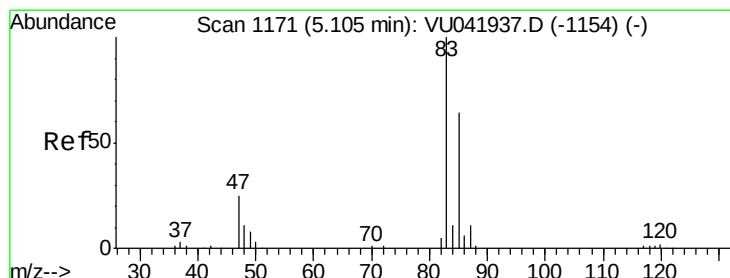
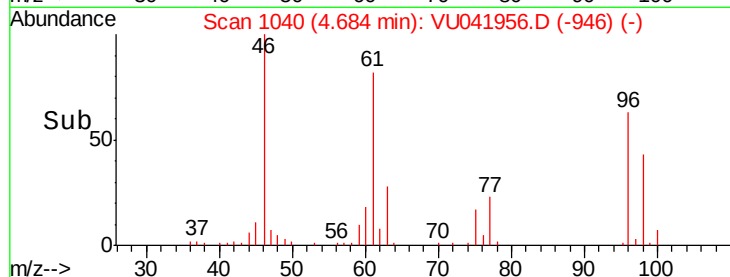
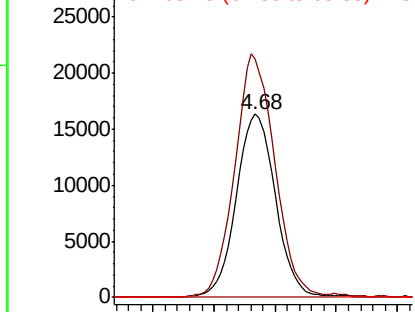
#22
 cis-1,2-Dichloroethene
 Concen: 3.854 ug/L
 RT: 4.68 min Scan# 1040
 Delta R.T. 0.00 min
 Lab File: VU041956.D
 Acq: 12 Jan 2021 05:47

Instrument :
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 ClientSampleID :
 BFXN7

Tot Ion: 96 Resp: 36257
 Ion Ratio Lower Upper
 96 100
 61 130.1 90.3 167.7
 68 0.0 0.0 0.0

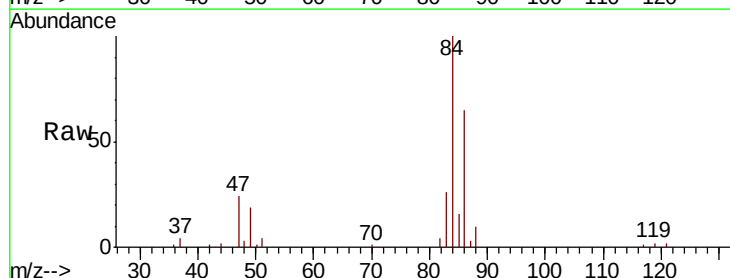


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0

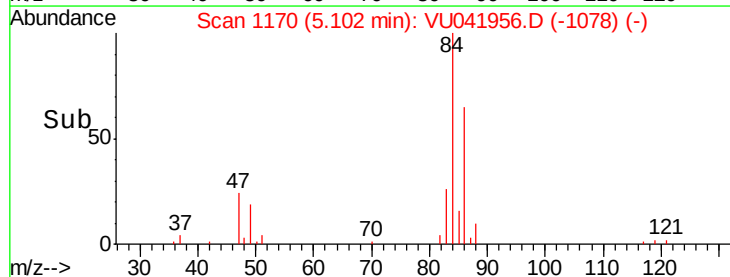
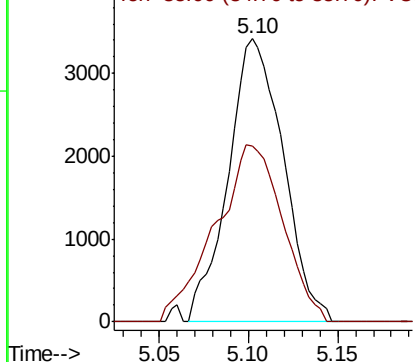


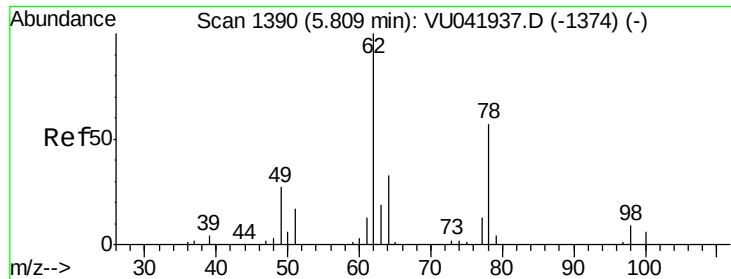
#25
 Chloroform
 Concen: 0.427 ug/L
 RT: 5.10 min Scan# 1170
 Delta R.T. -0.00 min
 Lab File: VU041956.D
 Acq: 12 Jan 2021 05:47

Tgt Ion: 83 Resp: 7356
 Ion Ratio Lower Upper
 83 100
 85 62.3 45.1 83.9



Abundance Ion 83.05 (82.75 to 83.75): VU0
 Ion 85.00 (84.70 to 85.70): VU0

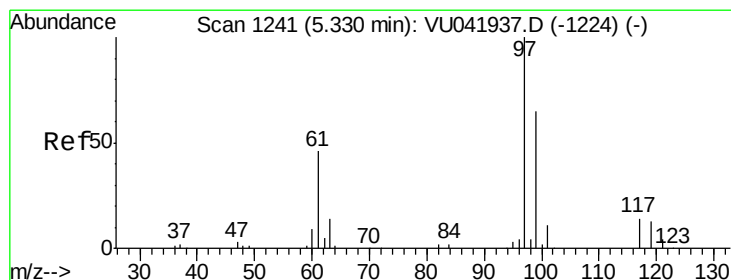
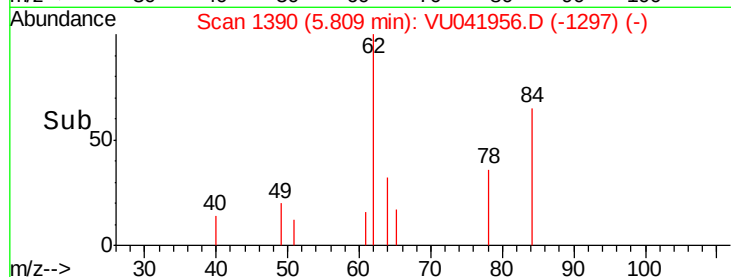
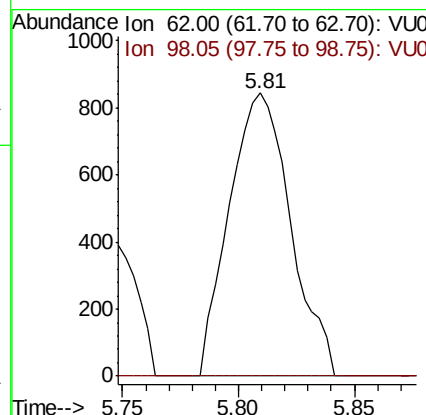
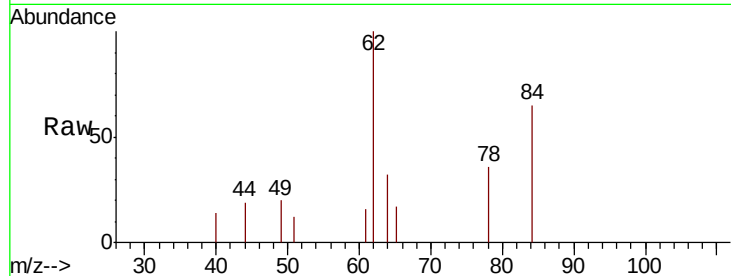




#27
 1,2-Dichloroethane
 Concen: 0.141 ug/L
 RT: 5.81 min Scan# 1390
 Delta R.T. -0.00 min
 Lab File: VU041956.D
 Acq: 12 Jan 2021 05:47

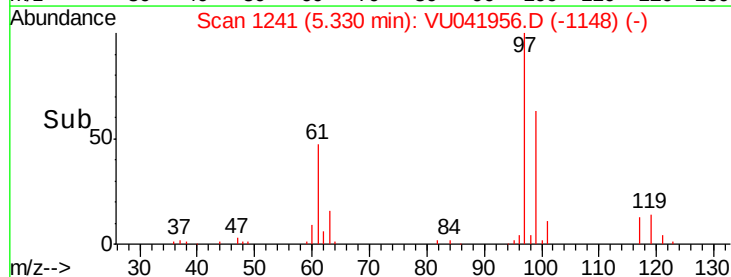
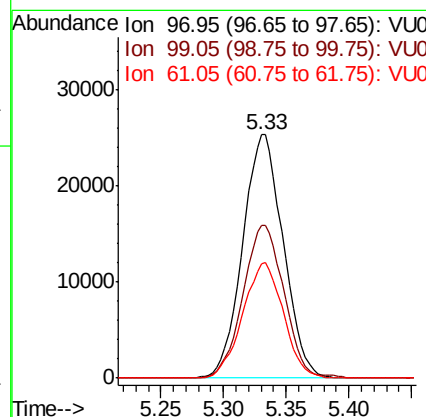
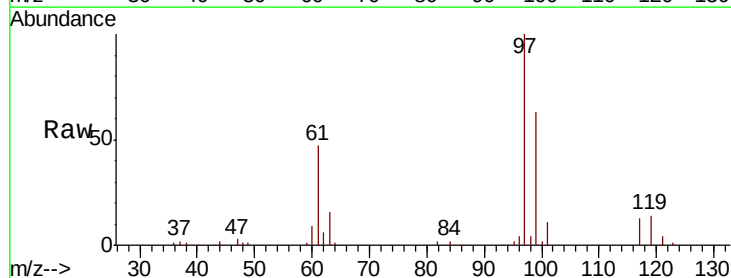
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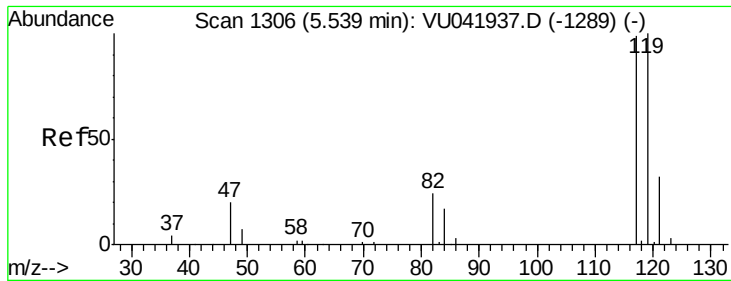
Tot Ion: 62 Resp: 1553
 Ion Ratio Lower Upper
 62 100
 98 0.0 7.8 11.8#



#29
 1,1,1-Trichloroethane
 Concen: 3.950 ug/L
 RT: 5.33 min Scan# 1241
 Delta R.T. -0.00 min
 Lab File: VU041956.D
 Acq: 12 Jan 2021 05:47

Tgt Ion: 97 Resp: 56725
 Ion Ratio Lower Upper
 97 100
 99 63.7 51.4 77.2
 61 47.6 35.3 52.9





#31

Carbon tetrachloride

Concen: 0.156 ug/L

RT: 5.54 min Scan# 1307

Delta R.T. 0.00 min

Lab File: VU041956.D

Acq: 12 Jan 2021 05:47

Instrument :

MSVOA_U

ClientSampleId :

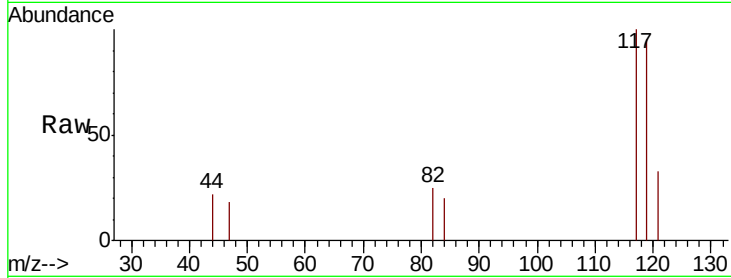
BFXN7

Tot Ion:117 Resp: 1940

Ion Ratio Lower Upper

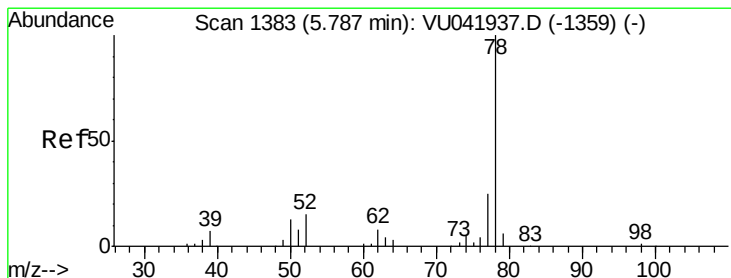
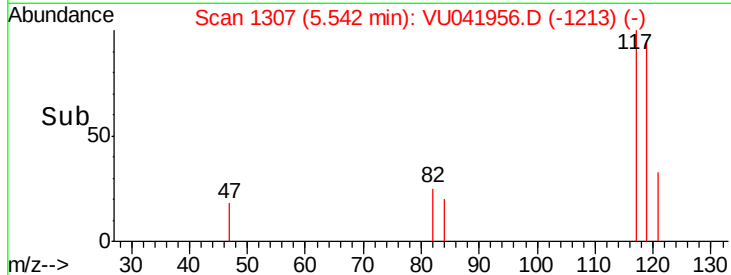
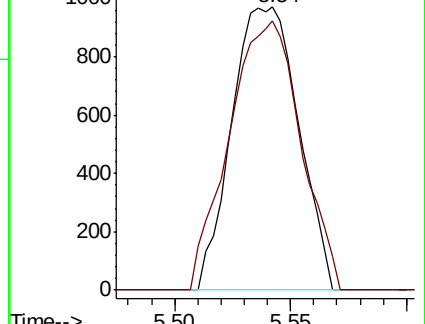
117 100

119 101.7 75.0 112.4



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 0.049 ug/L

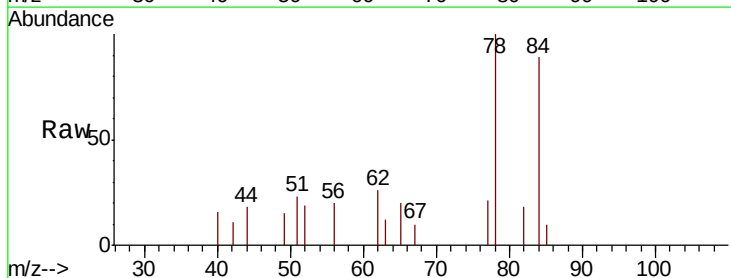
RT: 5.79 min Scan# 1384

Delta R.T. 0.00 min

Lab File: VU041956.D

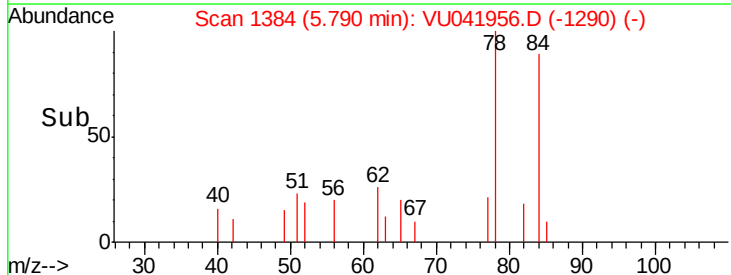
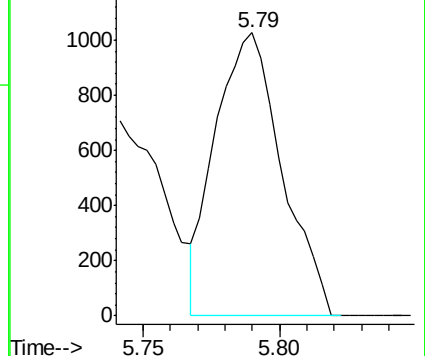
Acq: 12 Jan 2021 05:47

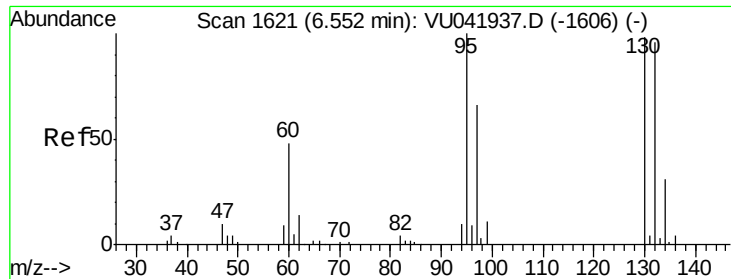
Tgt Ion: 78 Resp: 1743



Abundance Ion 78.10 (77.80 to 78.80): VU0

Ion 80.10 (79.80 to 80.80): VU0





#34

Trichloroethene

Concen: 77.876 ug/L

RT: 6.55 min Scan# 1621

Delta R.T. -0.00 min

Lab File: VU041956.D

Acq: 12 Jan 2021 05:47

Instrument :

MSVOA_U

ClientSampleId :

BFXN7

Tot Ion: 95 Resp: 725031

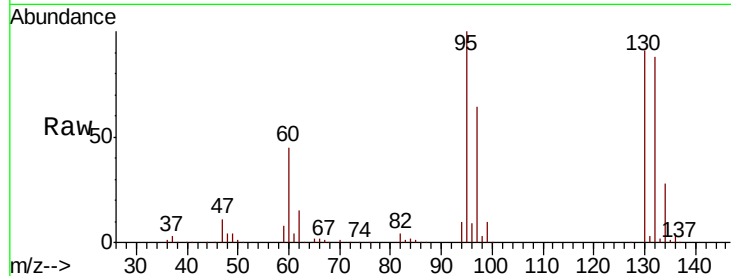
Ion Ratio Lower Upper

95 100

97 64.1 45.2 84.0

132 87.8 68.7 127.5

130 91.4 68.0 126.4

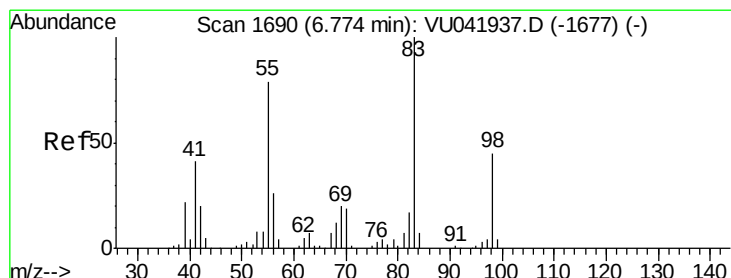
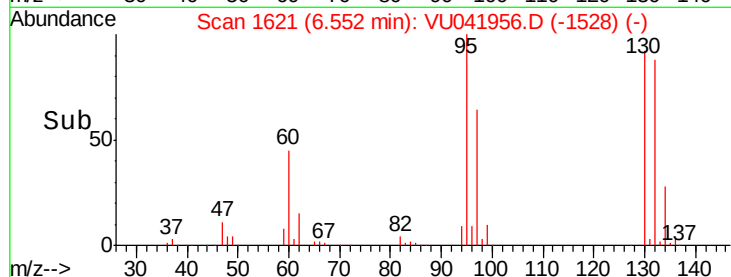
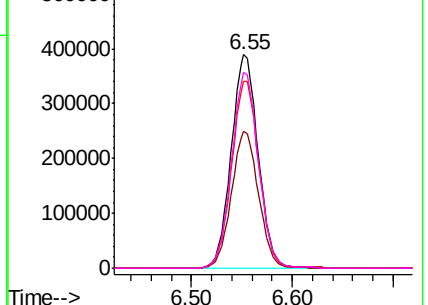


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 0.999 ug/L

RT: 6.70 min Scan# 1667

Delta R.T. -0.07 min

Lab File: VU041956.D

Acq: 12 Jan 2021 05:47

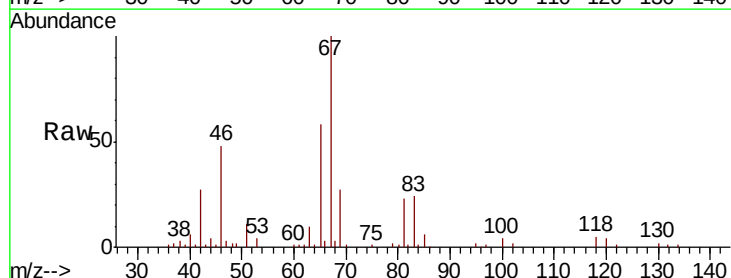
Tgt Ion: 83 Resp: 13667

Ion Ratio Lower Upper

83 100

55 0.2 64.3 96.5#

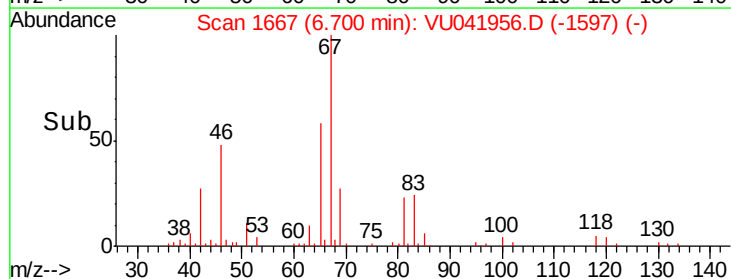
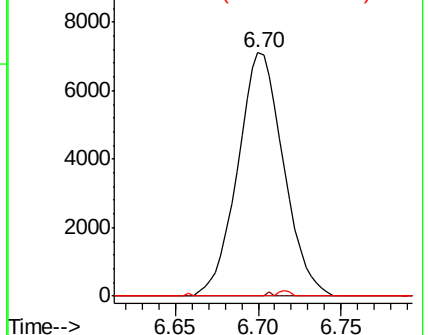
98 0.0 36.6 54.8#

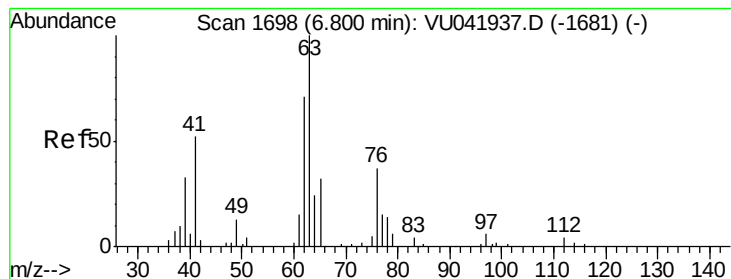


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 0.314 ug/L

RT: 6.80 min Scan# 1699

Delta R.T. 0.00 min

Lab File: VU041956.D

Acq: 12 Jan 2021 05:47

Instrument :

MSVOA_U

ClientSampled :

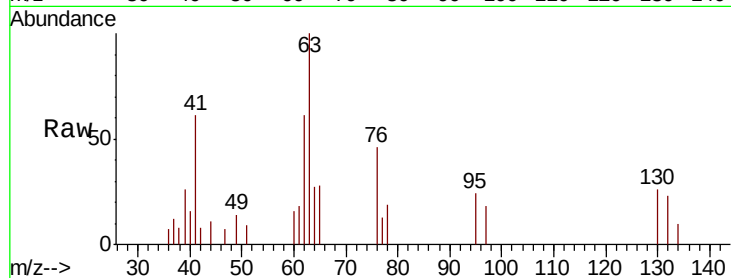
BFXN7

Tot Ion: 63 Resp: 2773

Ion Ratio Lower Upper

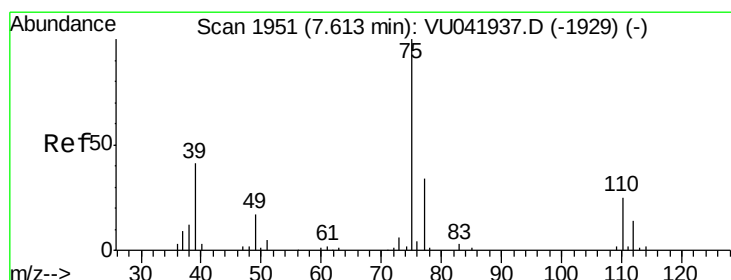
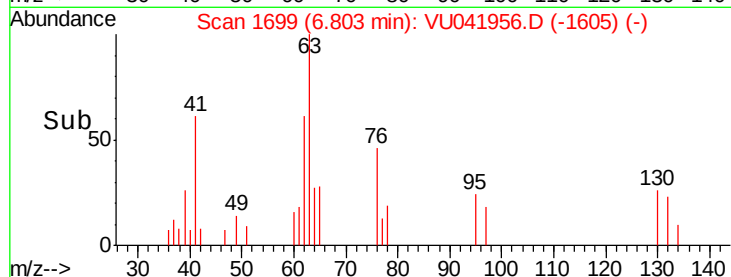
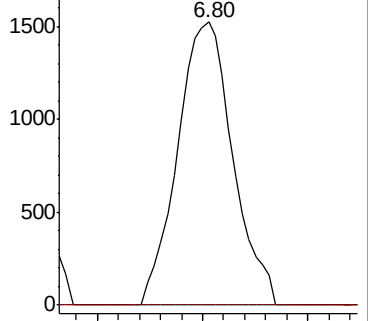
63 100

112 0.0 3.3 4.9#



Abundance Ion 63.10 (62.80 to 63.80): VU041937.D (-1681) (-)

Ion 112.10 (111.80 to 112.80): VU041937.D (-1681) (-)



#39

cis-1,3-Dichloropropene

Concen: 0.111 ug/L

RT: 7.57 min Scan# 1937

Delta R.T. -0.05 min

Lab File: VU041956.D

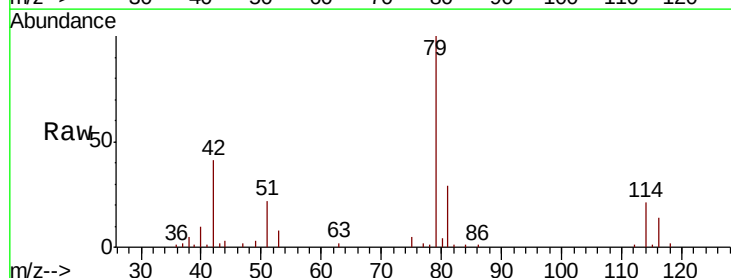
Acq: 12 Jan 2021 05:47

Tgt Ion: 75 Resp: 1452

Ion Ratio Lower Upper

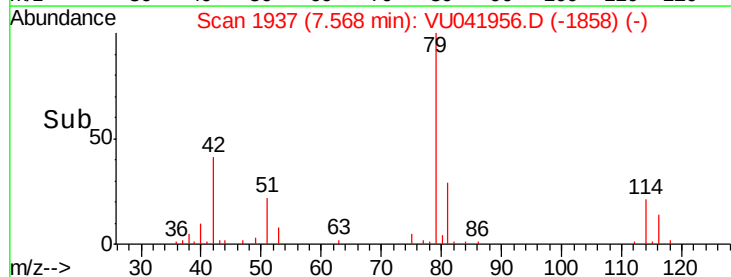
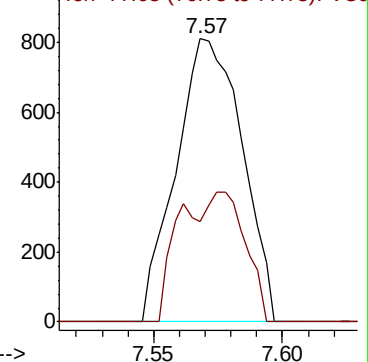
75 100

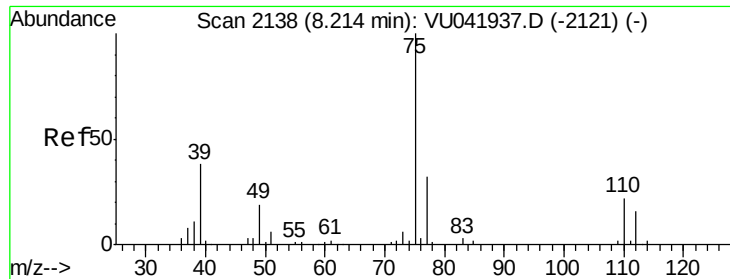
77 35.4 21.5 39.9



Abundance Ion 75.05 (74.75 to 75.75): VU041937.D (-1929) (-)

Ion 77.05 (76.75 to 77.75): VU041937.D (-1929) (-)





#44

trans-1,3-Dichloropropene

Concen: 0.077 ug/L

RT: 8.18 min Scan# 2128

Delta R.T. -0.03 min

Lab File: VU041956.D

Acq: 12 Jan 2021 05:47

Instrument :

MSVOA_U

ClientSampleId :

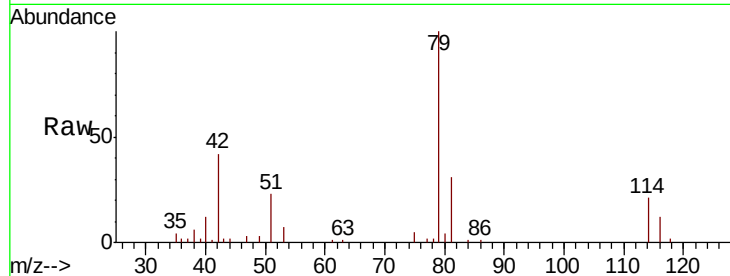
BFXN7

Tot Ion: 75 Resp: 888

Ion Ratio Lower Upper

75 100

77 42.8 23.7 44.1



Abundance Ion 75.05 (74.75 to 75.75): VU041937.D (-2121) (-)

Ion 77.05 (76.75 to 77.75): VU041937.D (-2121) (-)

8.18

600

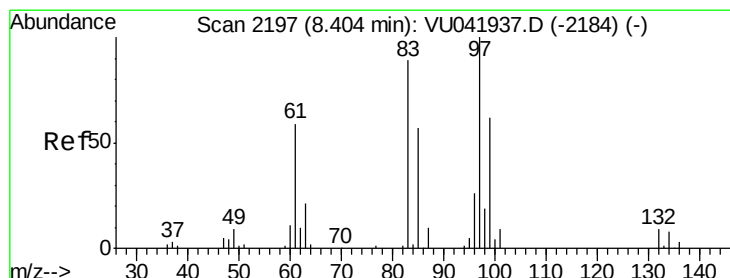
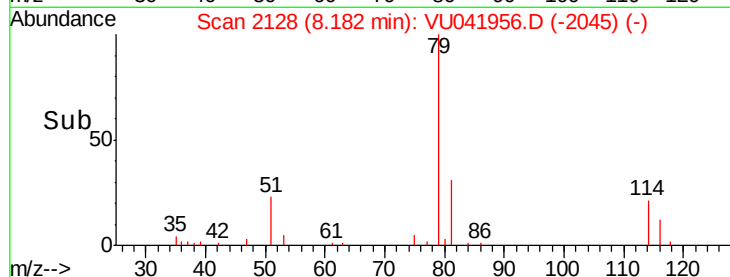
400

200

0

8.14 8.16 8.18 8.20 8.22

Time-->



#45

1,1,2-Trichloroethane

Concen: 0.206 ug/L

RT: 8.41 min Scan# 2199

Delta R.T. 0.01 min

Lab File: VU041956.D

Acq: 12 Jan 2021 05:47

Tgt Ion: 97 Resp: 1398

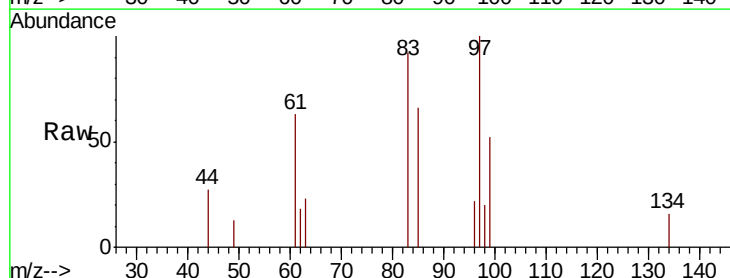
Ion Ratio Lower Upper

97 100

99 52.5 45.1 83.9

83 92.1 63.3 117.7

85 66.4 39.2 72.8



Abundance Ion 96.95 (96.65 to 97.65): VU041937.D (-2184) (-)

Ion 99.05 (98.75 to 99.75): VU041937.D (-2184) (-)

Ion 82.95 (82.65 to 83.65): VU041937.D (-2184) (-)

Ion 85.00 (84.70 to 85.70): VU041937.D (-2184) (-)

1200

1000

800

600

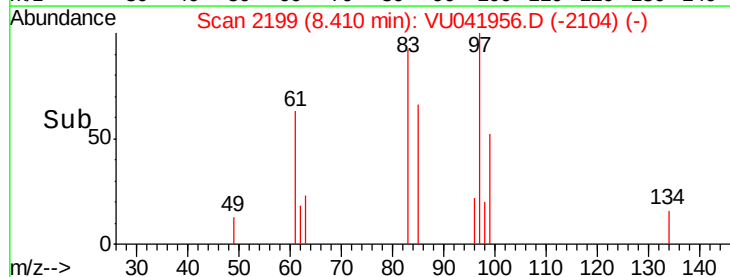
400

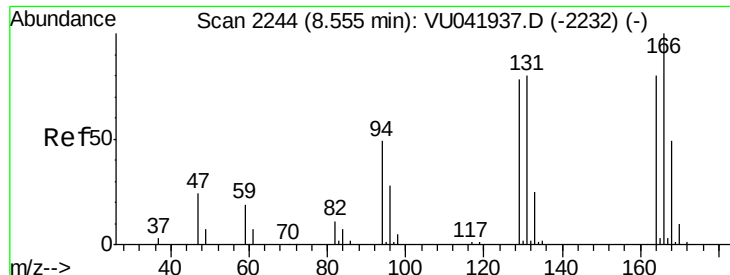
200

0

8.40 8.41 8.45

Time-->





#47

Tetrachloroethene

Concen: 379.719 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. 0.00 min

Lab File: VU041956.D

Acq: 12 Jan 2021 05:47

Instrument :

MSVOA_U

ClientSampleId :

BFXN7

Tot Ion:164 Resp: 2459960

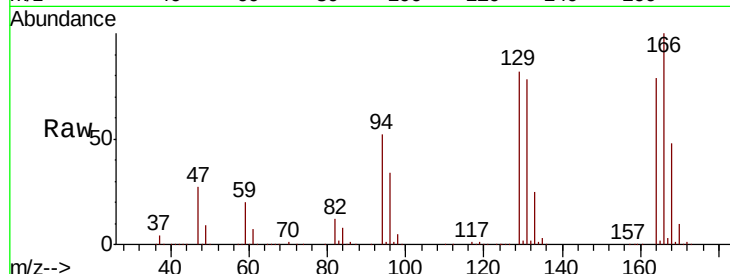
Ion Ratio Lower Upper

164 100

129 103.6 69.2 128.6

131 99.4 69.7 129.5

166 126.8 89.2 165.8

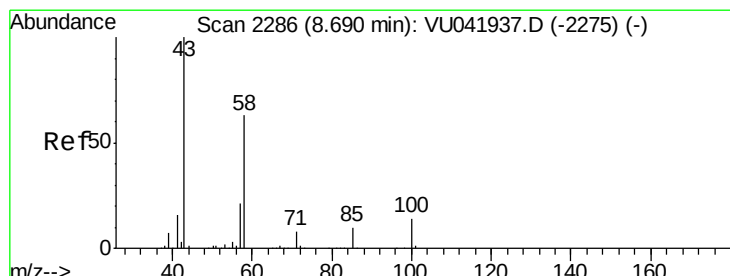
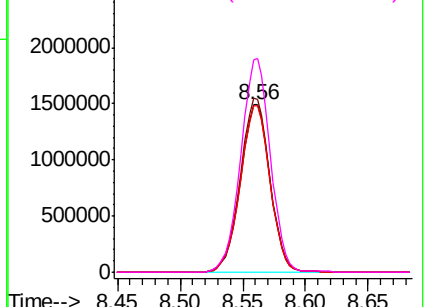
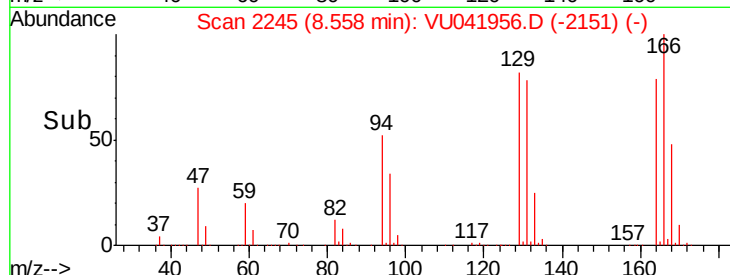


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V



#48

2-Hexanone

Concen: 4.164 ug/L

RT: 8.64 min Scan# 2270

Delta R.T. -0.05 min

Lab File: VU041956.D

Acq: 12 Jan 2021 05:47

Tgt Ion: 43 Resp: 17237

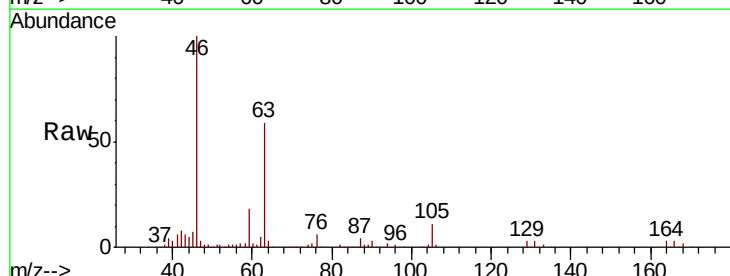
Ion Ratio Lower Upper

43 100

58 31.3 47.6 71.4#

57 24.7 17.1 25.7

100 0.0 10.4 15.6#

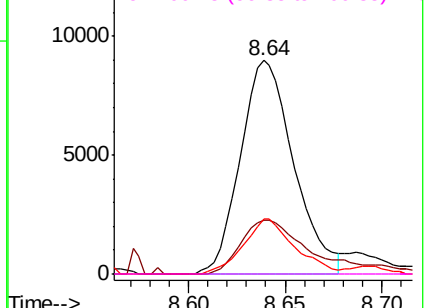
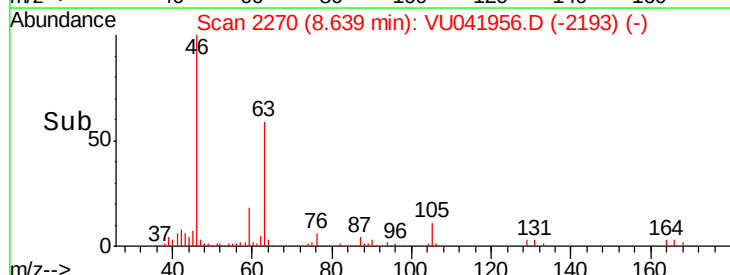


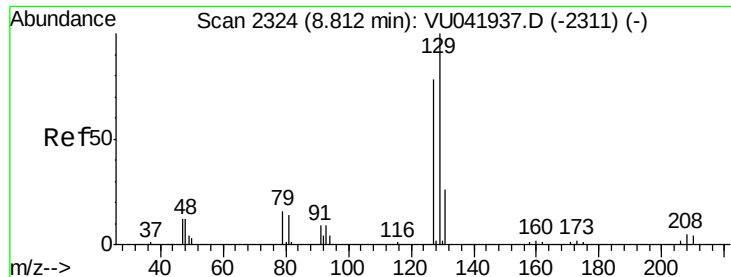
Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

Ion 57.20 (56.90 to 57.90): VU0

Ion 100.15 (99.85 to 100.85): VU0





#49

Dibromochloromethane

Concen: 305.051 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. -0.25 min

Lab File: VU041956.D

Acq: 12 Jan 2021 05:47

Instrument :

MSVOA_U

ClientSampleId :

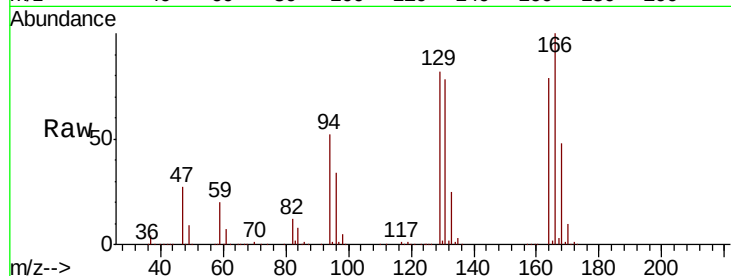
BFXN7

Tot Ion:129 Resp: 2517413

Ion Ratio Lower Upper

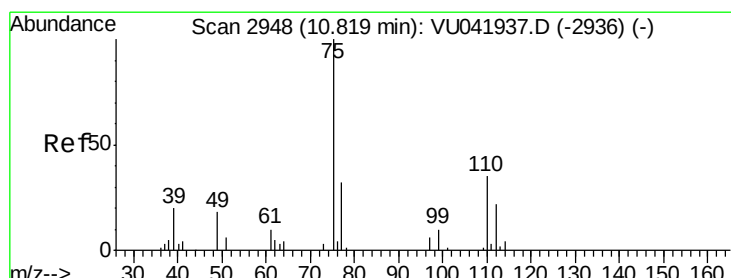
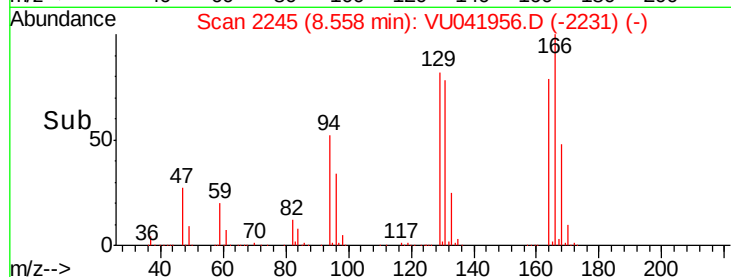
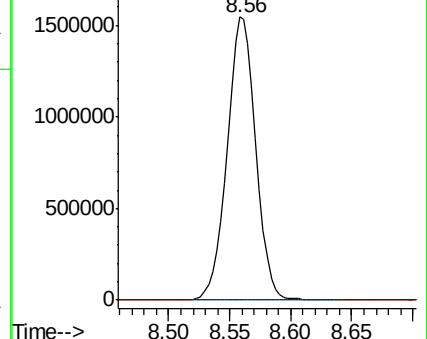
129 100

127 0.0 54.9 101.9#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V



#59

1,2,3-Trichloropropane

Concen: 0.816 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.99 min

Lab File: VU041956.D

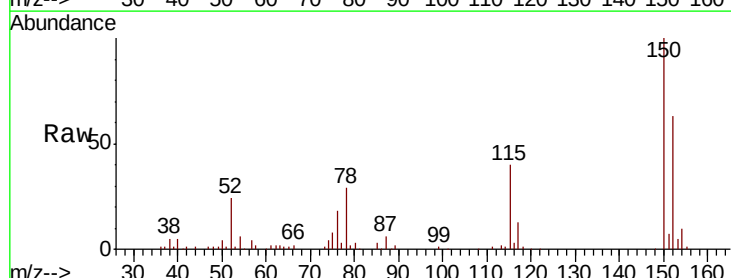
Acq: 12 Jan 2021 05:47

Tgt Ion: 75 Resp: 5272

Ion Ratio Lower Upper

75 100

77 31.3 27.0 40.4



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

