

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U101620\
 Data File : VU040747.D
 Acq On : 16 Oct 2020 14:24
 Operator : SY/MD
 Sample : L4419-11
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C0AJ0

Quant Time: Oct 16 23:41:36 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR100820WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Oct 16 23:38:52 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	111919	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	115952	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	47464	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	38445	4.14	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	82.80%
7) Chloroethane-d5	1.92	69	36461	5.10	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	102.00%
11) 1,1-Dichloroethene-d2	2.58	63	84758	4.68	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	93.60%
20) 2-Butanone-d5	4.66	46	160904	54.22	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	108.44%
24) Chloroform-d	5.08	84	85046	5.23	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	104.60%
26) 1,2-Dichloroethane-d4	5.72	65	52467	5.29	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	105.80%
32) Benzene-d6	5.74	84	154866	4.95	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.00%
36) 1,2-Dichloropropane-d6	6.70	67	54989	5.30	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	106.00%
41) Toluene-d8	7.91	98	120382	4.30	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	86.00%
43) trans-1,3-Dichloropropene-	8.19	79	19680	4.47	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	89.40%
46) 2-Hexanone-d5	8.64	63	109119	48.14	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	96.28%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	46518	4.99	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	99.80%
64) 1,2-Dichlorobenzene-d4	12.19	152	49720	5.65	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	113.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	9081	0.896 ug/L	97
3) Chloromethane	1.53	50	622	0.066 ug/L	100
9) Trichlorofluoromethane	2.15	101	1586	0.111 ug/L	84
10) 1,1,2-Trichloro-1,2,2-trif	2.58	101	721	0.077 ug/L #	20
12) 1,1-Dichloroethene	2.59	96	38784	4.857 ug/L	99
19) 1,1-Dichloroethane	3.89	63	6559	0.379 ug/L	97
22) cis-1,2-Dichloroethene	4.69	96	24547	2.723 ug/L	99
25) Chloroform	5.11	83	5999	0.340 ug/L	97
29) 1,1,1-Trichloroethane	5.34	97	5839	0.375 ug/L	97
31) Carbon tetrachloride	5.54	117	2824	0.212 ug/L	89
34) Trichloroethene	6.56	95	112059	11.605 ug/L	98
35) Methylcyclohexane	6.70	83	12952	0.946 ug/L #	14
37) 1,2-Dichloropropane	6.70	63	6522	0.628 ug/L #	87
39) cis-1,3-Dichloropropene	7.57	75	1265	0.089 ug/L #	72
42) Toluene	7.98	91	1831	0.048 ug/L	92
44) trans-1,3-Dichloropropene	8.19	75	897	0.069 ug/L #	42
45) 1,1,2-Trichloroethane	8.41	97	377	0.048 ug/L	80

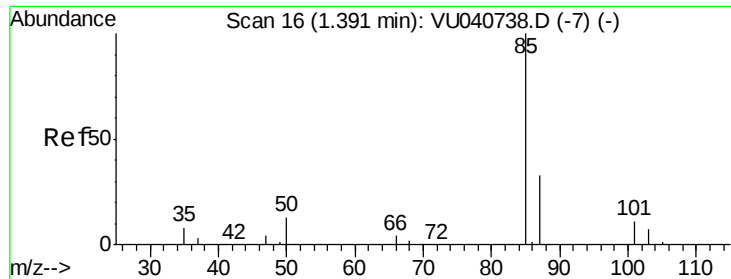
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU101620\
Data File : VU040747.D
Acq On : 16 Oct 2020 14:24
Operator : SY/MD
Sample : L4419-11
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
C0AJ0

Quant Time: Oct 16 23:41:36 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR100820WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Oct 16 23:38:52 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) Tetrachloroethene	8.56	164	72774	10.564	ug/L	96
48) 2-Hexanone	8.64	43	15276	2.480	ug/L #	74
49) Dibromochloromethane	8.56	129	70376	7.868	ug/L #	10
59) 1,2,3-Trichloropropane	11.81	75	6206	0.814	ug/L	90

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



#2

Dichlorodifluoromethane

Concen: 0.896 ug/L

RT: 1.39 min Scan# 15

Delta R.T. -0.00 min

Lab File: VU040747.D

Acq: 16 Oct 2020 14:24

Instrument :

MSVOA_U

ClientSampleId :

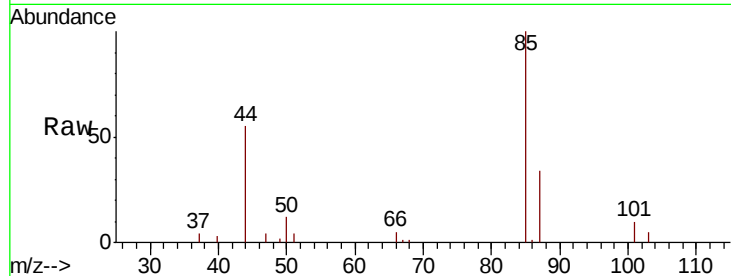
C0AJ0

Tot Ion: 85 Resp: 9081

Ion Ratio Lower Upper

85 100

87 34.3 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

10000

8000

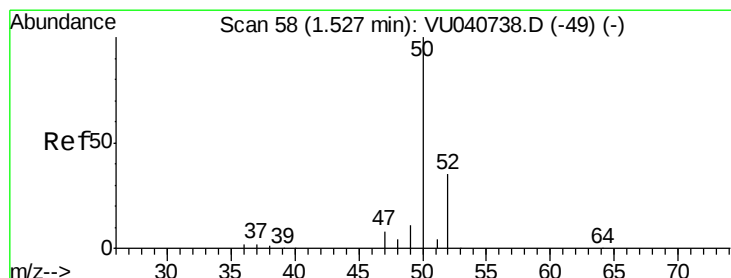
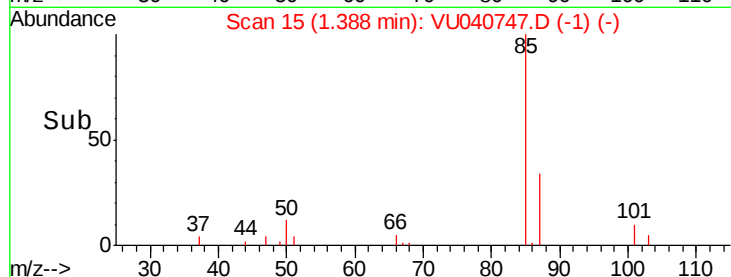
6000

4000

2000

0

Time--> 1.34 1.36 1.38 1.40 1.42



#3

Chloromethane

Concen: 0.066 ug/L

RT: 1.53 min Scan# 58

Delta R.T. -0.00 min

Lab File: VU040747.D

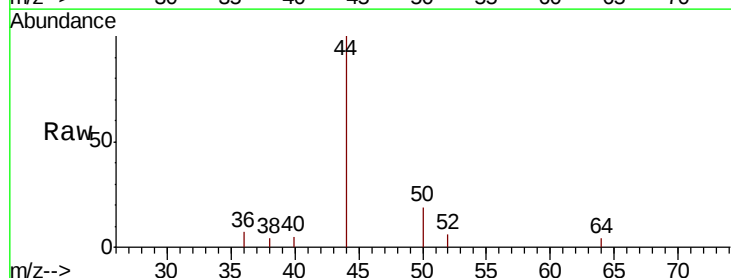
Acq: 16 Oct 2020 14:24

Tgt Ion: 50 Resp: 622

Ion Ratio Lower Upper

50 100

52 31.3 21.9 40.7



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0

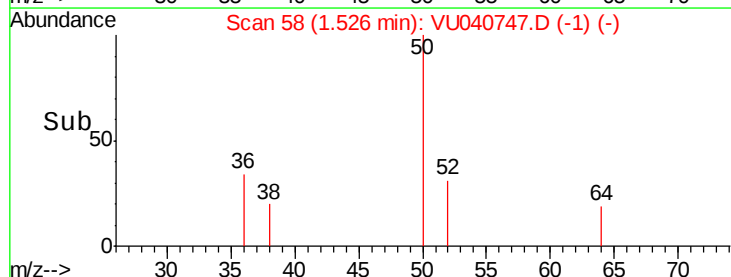
600

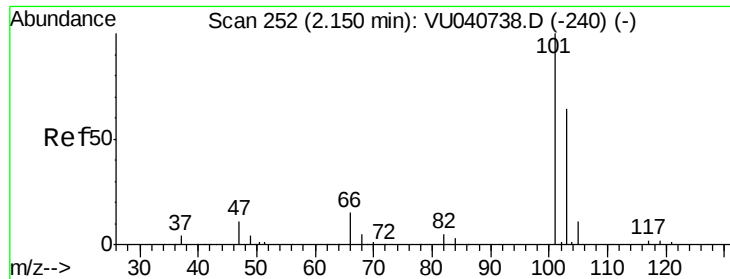
400

200

0

Time--> 1.50 1.52 1.54



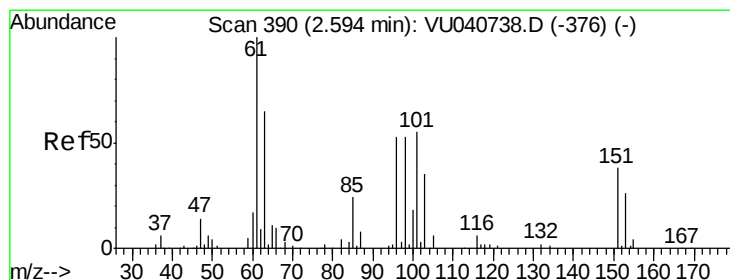
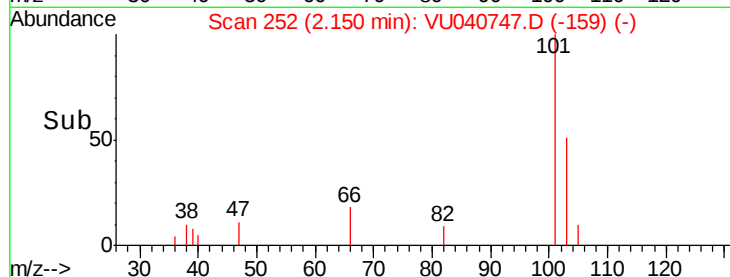
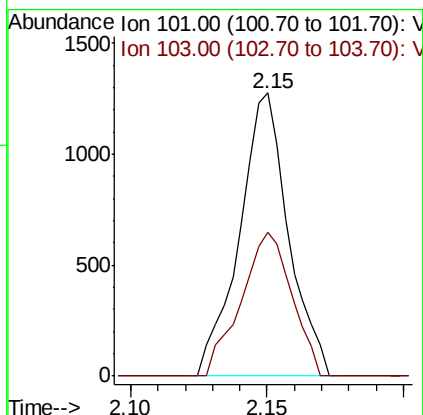
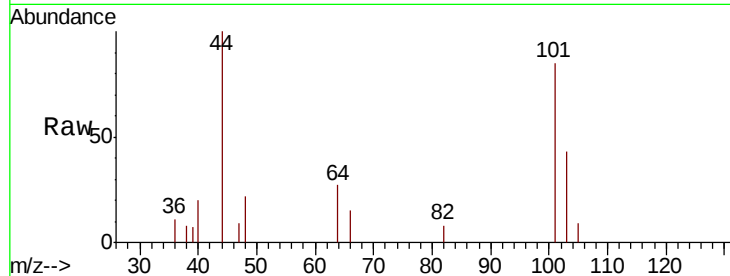


#9

Trichlorofluoromethane
 Concen: 0.111 ug/L
 RT: 2.15 min Scan# 252
 Delta R.T. -0.00 min
 Lab File: VU040747.D
 Acq: 16 Oct 2020 14:24

Instrument :
 MSVOA_U
 ClientSampled :
 C0AJ0

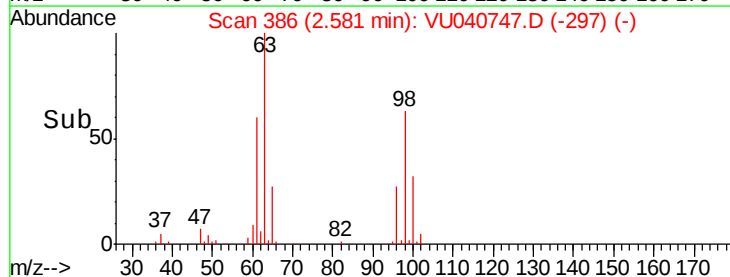
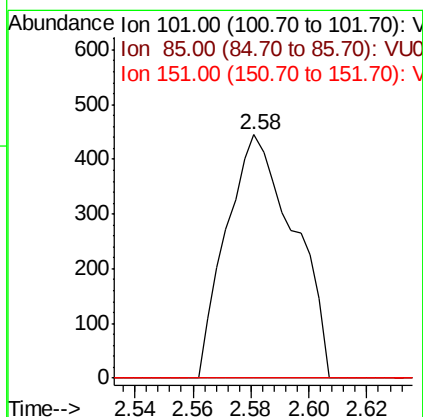
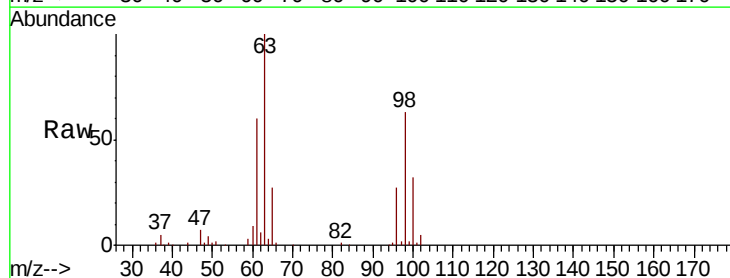
Tot Ion:101 Resp: 1586
 Ion Ratio Lower Upper
 101 100
 103 52.6 52.2 78.4

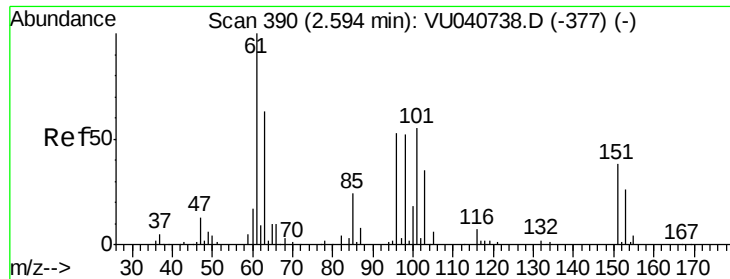


#10

1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.077 ug/L
 RT: 2.58 min Scan# 386
 Delta R.T. -0.01 min
 Lab File: VU040747.D
 Acq: 16 Oct 2020 14:24

Tgt Ion:101 Resp: 721
 Ion Ratio Lower Upper
 101 100
 85 0.0 36.7 55.1#
 151 0.0 58.0 87.0#





#12

1,1-Dichloroethene

Concen: 4.857 ug/L

RT: 2.59 min Scan# 390

Delta R.T. -0.00 min

Lab File: VU040747.D

Acq: 16 Oct 2020 14:24

Instrument :

MSVOA_U

ClientSampleId :

C0AJ0

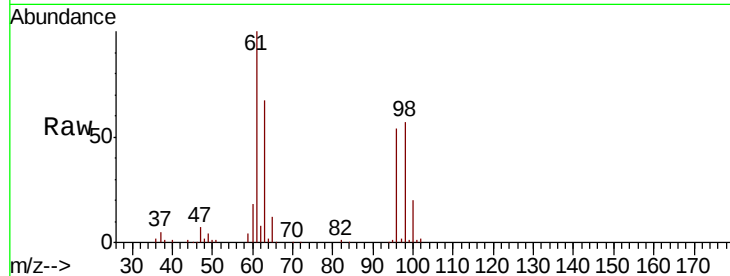
Tot Ion: 96 Resp: 38784

Ion Ratio Lower Upper

96 100

61 184.4 128.8 239.2

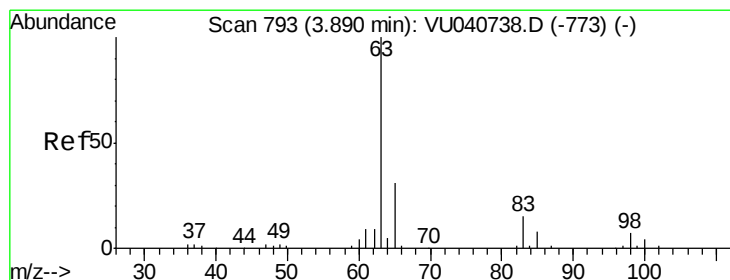
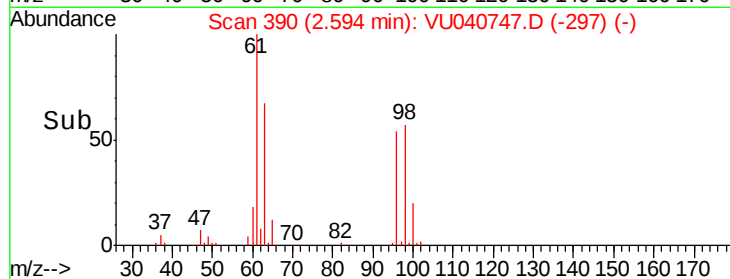
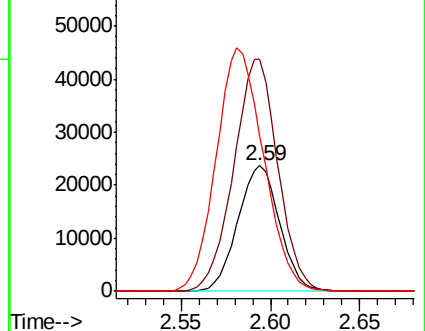
63 124.0 84.6 157.2



Abundance Ion 96.00 (95.70 to 96.70): VU040738.D (-377) (-)

Ion 61.05 (60.75 to 61.75): VU040738.D (-377) (-)

Ion 63.00 (62.70 to 63.70): VU040738.D (-377) (-)



#19

1,1-Dichloroethane

Concen: 0.379 ug/L

RT: 3.89 min Scan# 793

Delta R.T. -0.00 min

Lab File: VU040747.D

Acq: 16 Oct 2020 14:24

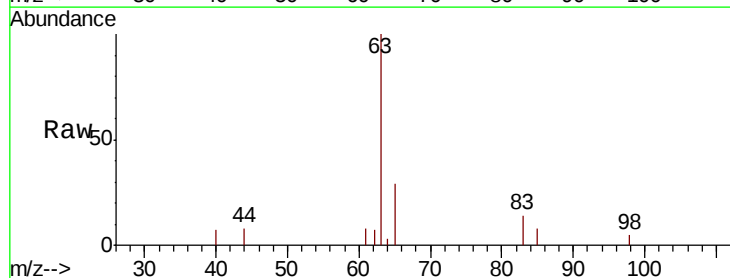
Tgt Ion: 63 Resp: 6559

Ion Ratio Lower Upper

63 100

65 29.2 21.9 40.7

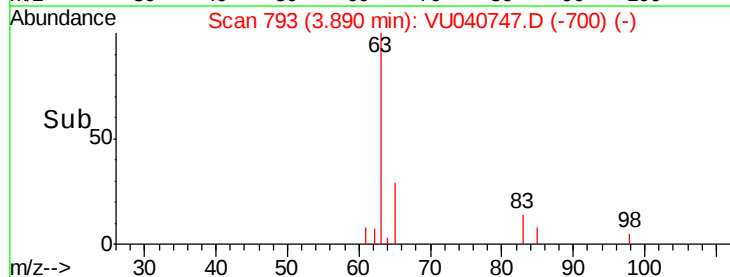
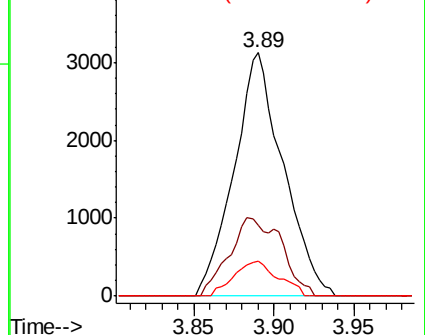
83 14.2 9.6 17.8

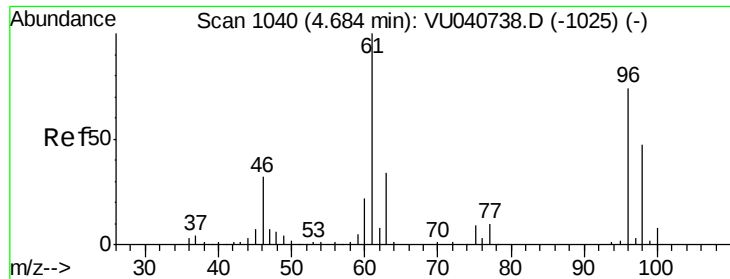


Abundance Ion 63.10 (62.80 to 63.80): VU040738.D (-773) (-)

Ion 65.10 (64.80 to 65.80): VU040738.D (-773) (-)

Ion 83.05 (82.75 to 83.75): VU040738.D (-773) (-)





#22

cis-1,2-Dichloroethene

Concen: 2.723 ug/L

RT: 4.69 min Scan# 1042

Delta R.T. 0.01 min

Lab File: VU040747.D

Acq: 16 Oct 2020 14:24

Instrument :

MSVOA_U

ClientSampleId :

C0AJ0

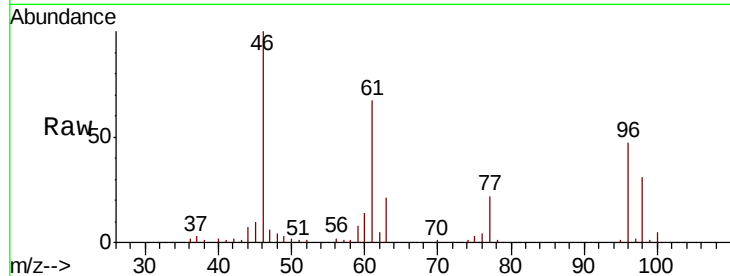
Tot Ion: 96 Resp: 24547

Ion Ratio Lower Upper

96 100

61 142.0 99.8 185.4

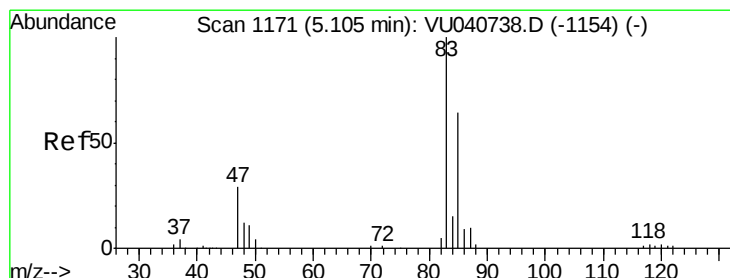
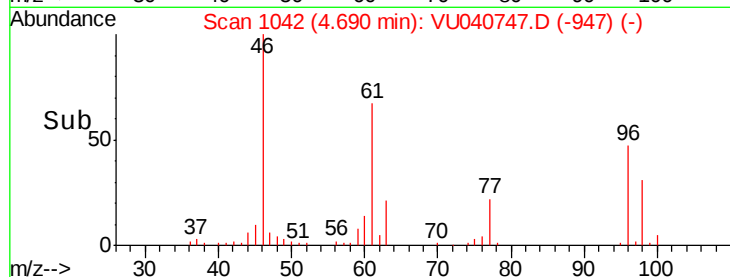
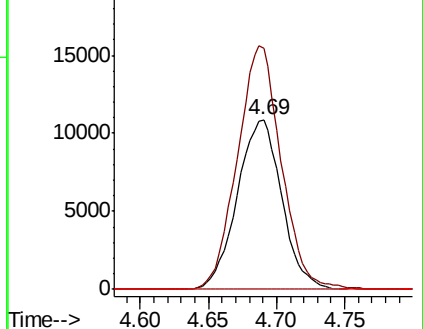
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU040738.D (-1025) (-)

Ion 61.05 (60.75 to 61.75): VU040738.D (-1025) (-)

Ion 68.15 (67.85 to 68.85): VU040738.D (-1025) (-)



#25

Chloroform

Concen: 0.340 ug/L

RT: 5.11 min Scan# 1171

Delta R.T. -0.00 min

Lab File: VU040747.D

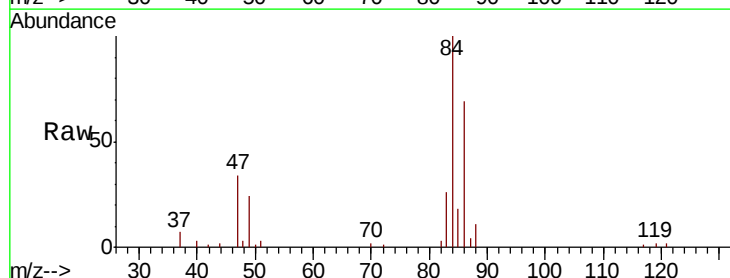
Acq: 16 Oct 2020 14:24

Tgt Ion: 83 Resp: 5999

Ion Ratio Lower Upper

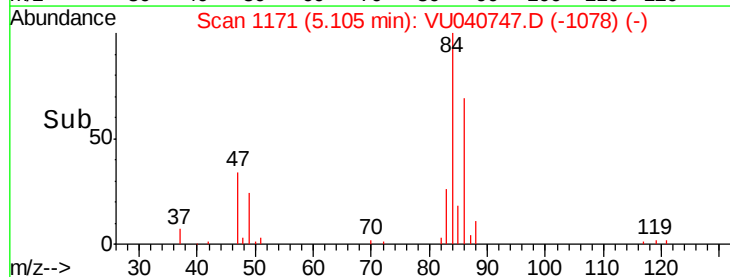
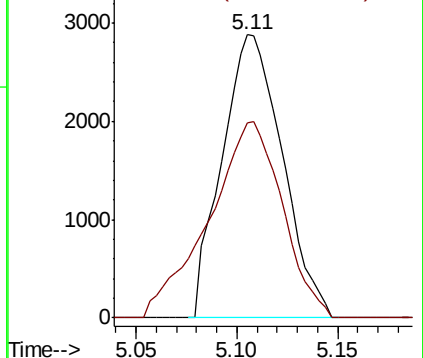
83 100

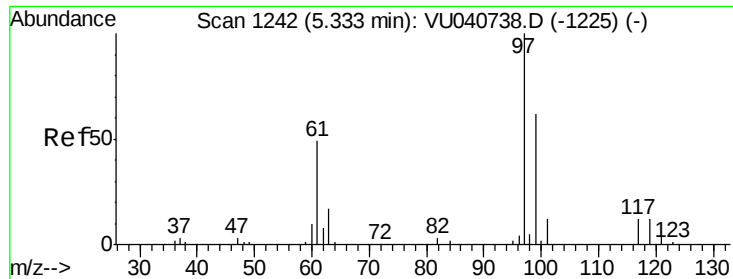
85 68.9 46.5 86.5



Abundance Ion 83.05 (82.75 to 83.75): VU040738.D (-1154) (-)

Ion 85.00 (84.70 to 85.70): VU040738.D (-1154) (-)

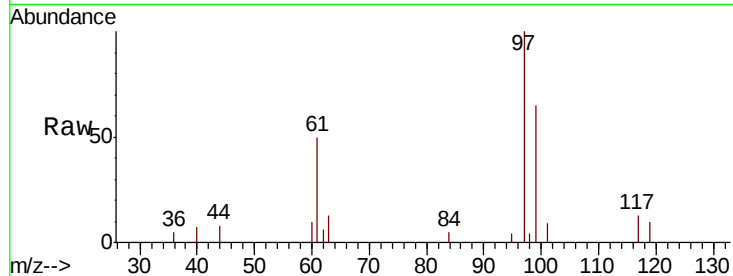




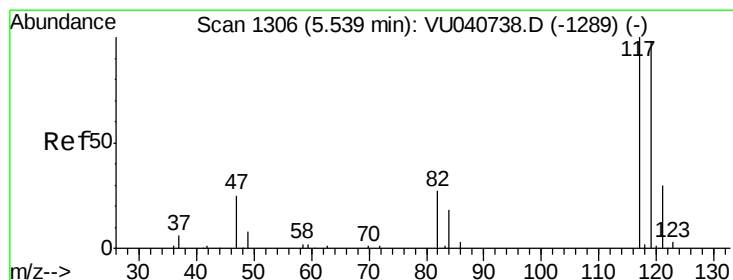
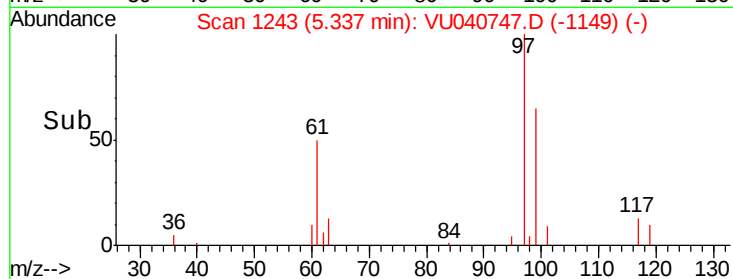
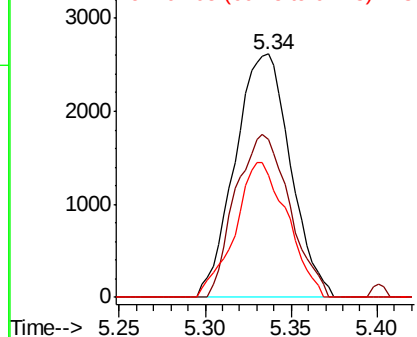
#29
 1,1,1-Trichloroethane
 Concen: 0.375 ug/L
 RT: 5.34 min Scan# 1243
 Delta R.T. 0.00 min
 Lab File: VU040747.D
 Acq: 16 Oct 2020 14:24

Instrument :
 MSVOA_U
 ClientSampleId :
 C0AJ0

Tot Ion: 97 Resp: 5839
 Ion Ratio Lower Upper
 97 100
 99 65.5 51.3 76.9
 61 52.4 39.4 59.2

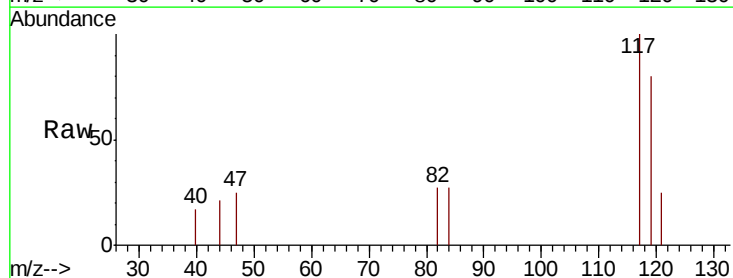


Abundance Ion 96.95 (96.65 to 97.65): VU040738.D (-1225) (-)
 Ion 99.05 (98.75 to 99.75): VU040738.D (-1225) (-)
 Ion 61.05 (60.75 to 61.75): VU040738.D (-1225) (-)

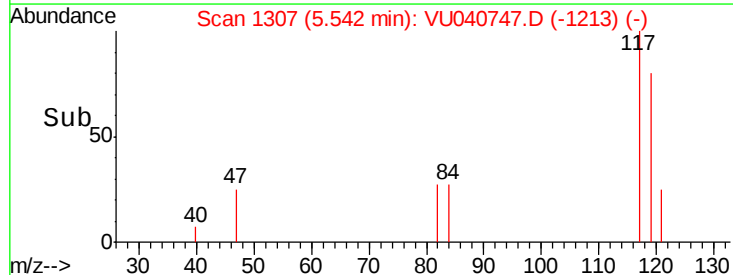
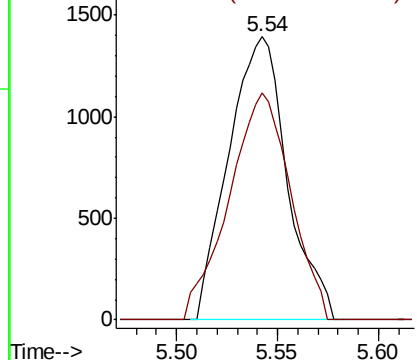


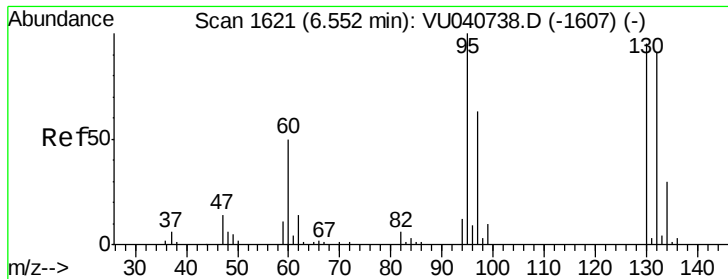
#31
 Carbon tetrachloride
 Concen: 0.212 ug/L
 RT: 5.54 min Scan# 1307
 Delta R.T. 0.00 min
 Lab File: VU040747.D
 Acq: 16 Oct 2020 14:24

Tgt Ion: 117 Resp: 2824
 Ion Ratio Lower Upper
 117 100
 119 84.2 76.2 114.2



Abundance Ion 116.90 (116.60 to 117.60): VU040738.D (-1289) (-)
 Ion 118.90 (118.60 to 119.60): VU040738.D (-1289) (-)





#34

Trichloroethene

Concen: 11.605 ug/L

RT: 6.56 min Scan# 1622

Delta R.T. 0.00 min

Lab File: VU040747.D

Acq: 16 Oct 2020 14:24

Instrument :

MSVOA_U

ClientSampleId :

C0AJ0

Tot Ion: 95 Resp: 112059

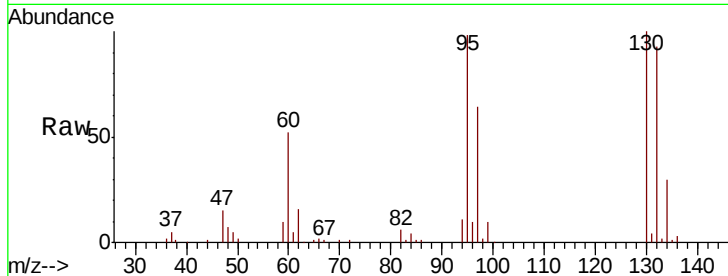
Ion Ratio Lower Upper

95 100

97 64.8 45.5 84.5

132 94.6 67.5 125.4

130 102.0 69.9 129.9

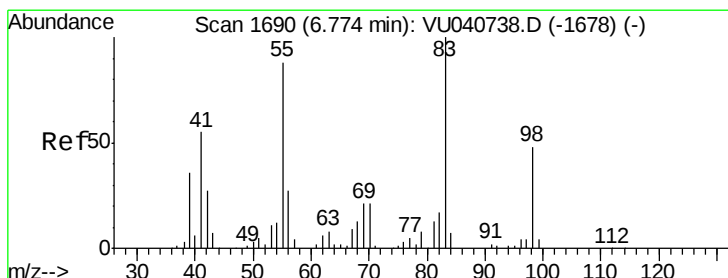
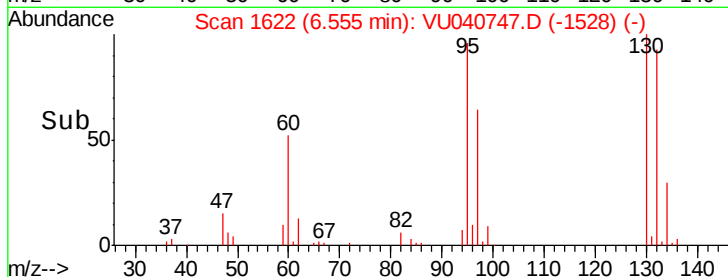
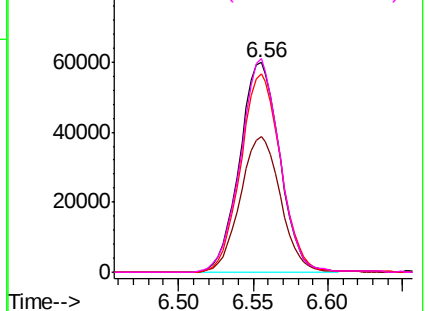


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 0.946 ug/L

RT: 6.70 min Scan# 1668

Delta R.T. -0.07 min

Lab File: VU040747.D

Acq: 16 Oct 2020 14:24

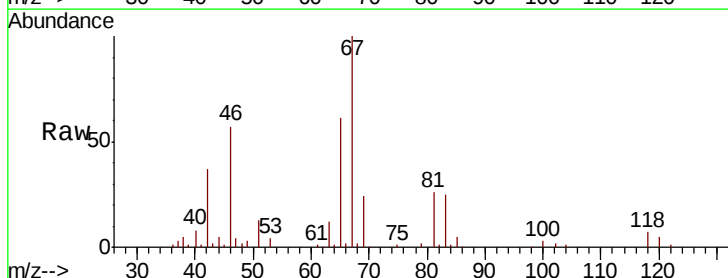
Tgt Ion: 83 Resp: 12952

Ion Ratio Lower Upper

83 100

55 0.1 70.7 106.1#

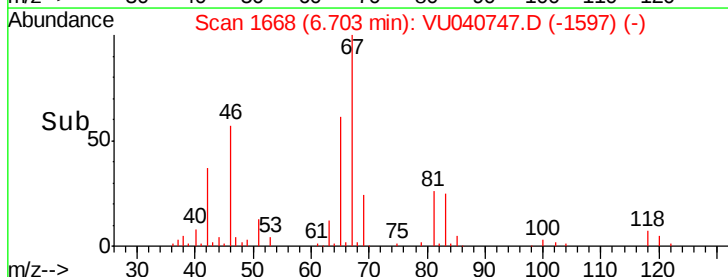
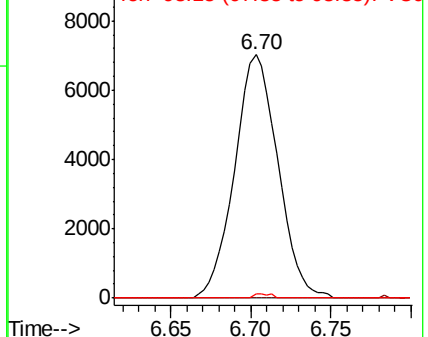
98 0.0 38.4 57.6#

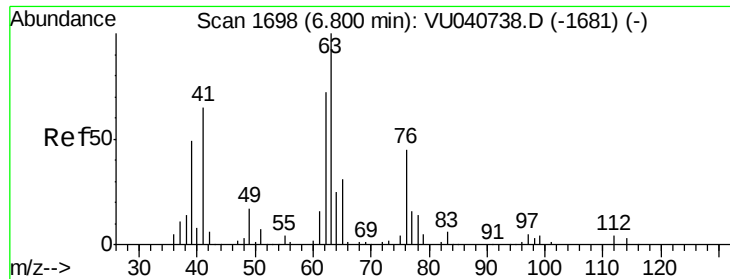


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

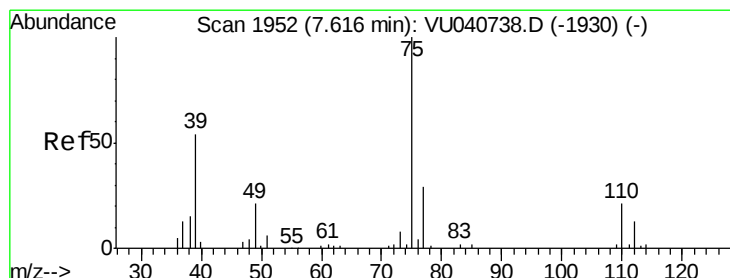
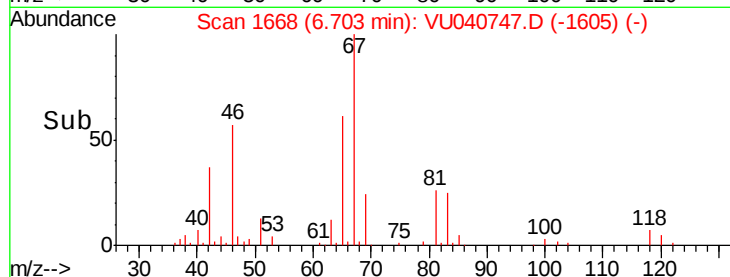
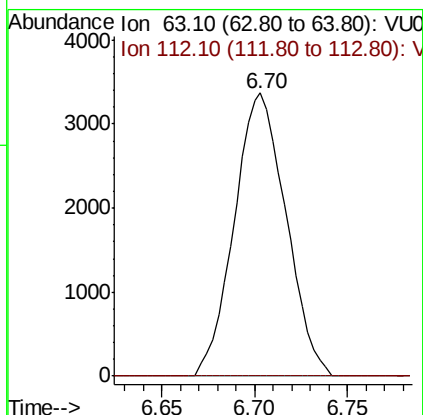
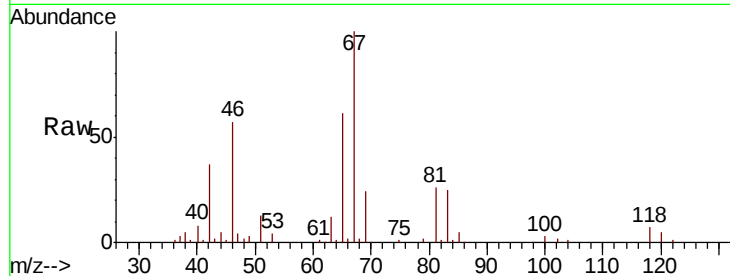




#37
 1,2-Dichloropropane
 Concen: 0.628 ug/L
 RT: 6.70 min Scan# 1668
 Delta R.T. -0.10 min
 Lab File: VU040747.D
 Acq: 16 Oct 2020 14:24

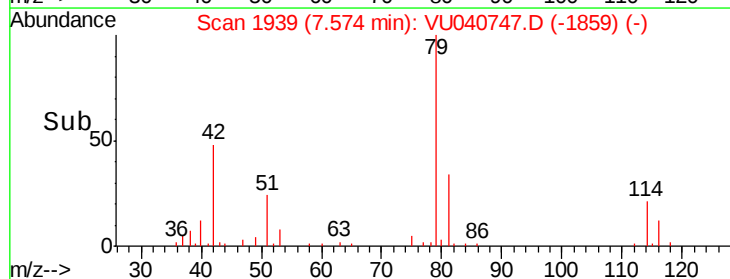
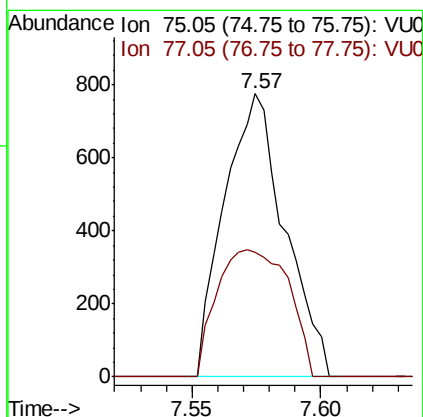
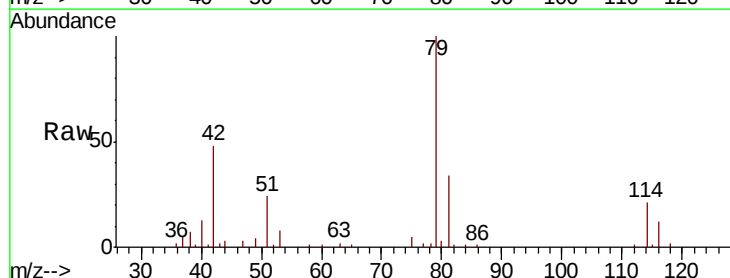
Instrument :
 MSVOA_U
 ClientSampleId :
 C0AJ0

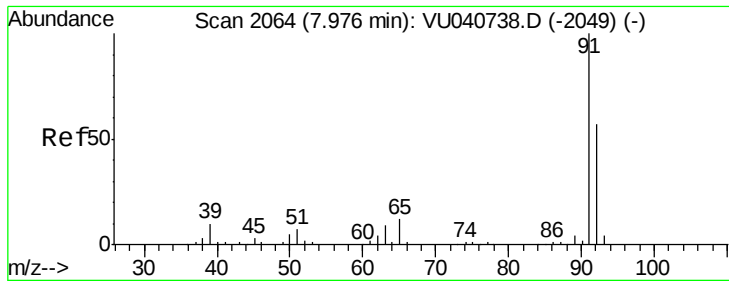
Tot Ion: 63 Resp: 6522
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.5 5.3#



#39
 cis-1,3-Dichloropropene
 Concen: 0.089 ug/L
 RT: 7.57 min Scan# 1939
 Delta R.T. -0.04 min
 Lab File: VU040747.D
 Acq: 16 Oct 2020 14:24

Tgt Ion: 75 Resp: 1265
 Ion Ratio Lower Upper
 75 100
 77 44.1 20.5 38.1#





#42

Toluene

Concen: 0.048 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. -0.00 min

Lab File: VU040747.D

Acq: 16 Oct 2020 14:24

Instrument :

MSVOA_U

ClientSampleId :

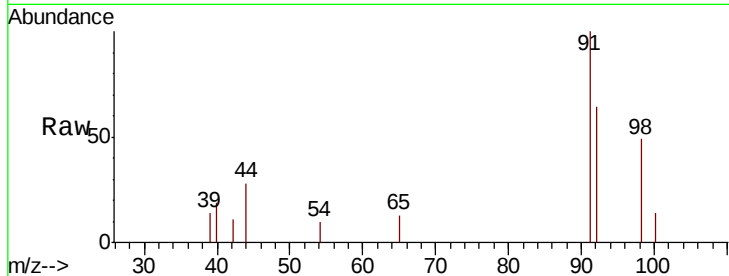
C0AJ0

Tot Ion: 91 Resp: 1831

Ion Ratio Lower Upper

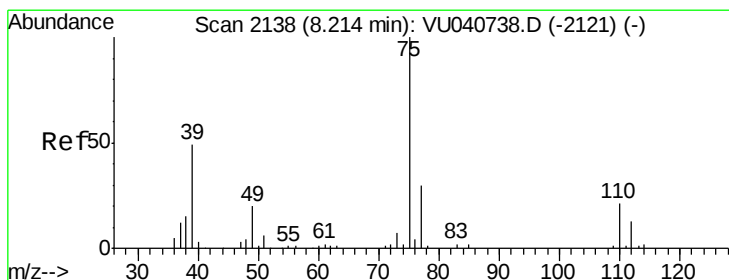
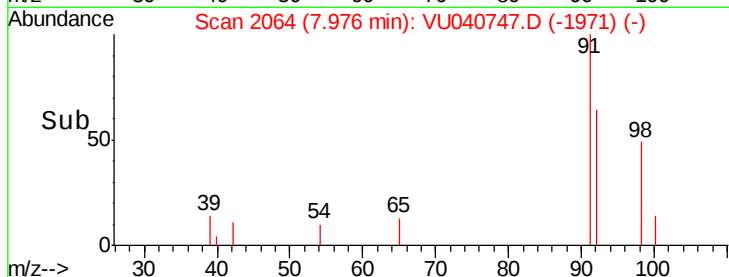
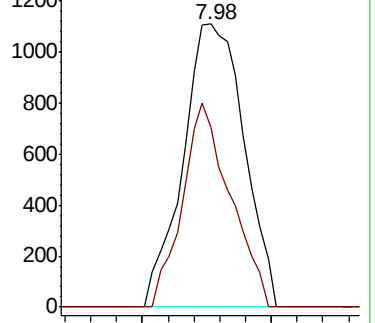
91 100

92 63.6 40.2 74.6



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0



#44

trans-1,3-Dichloropropene

Concen: 0.069 ug/L

RT: 8.19 min Scan# 2130

Delta R.T. -0.03 min

Lab File: VU040747.D

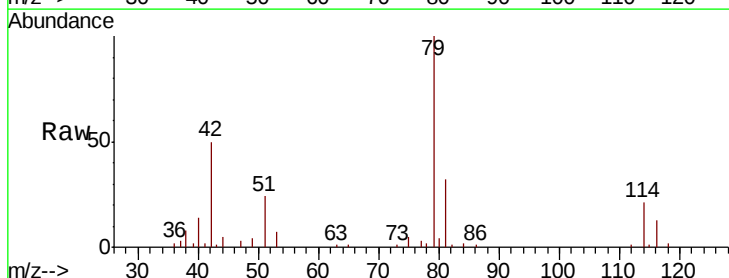
Acq: 16 Oct 2020 14:24

Tgt Ion: 75 Resp: 897

Ion Ratio Lower Upper

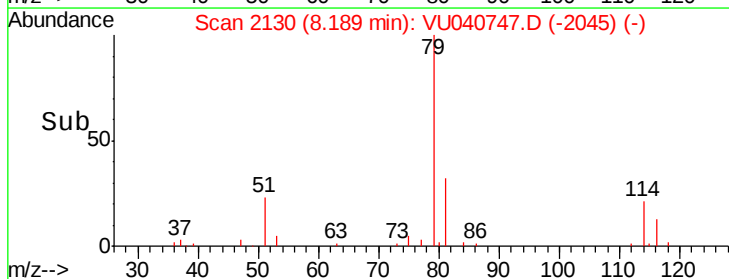
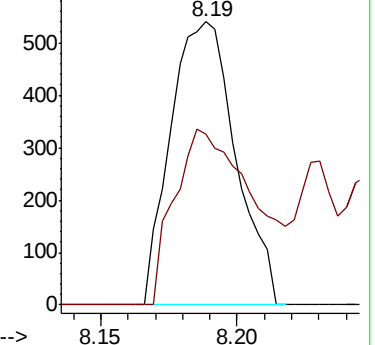
75 100

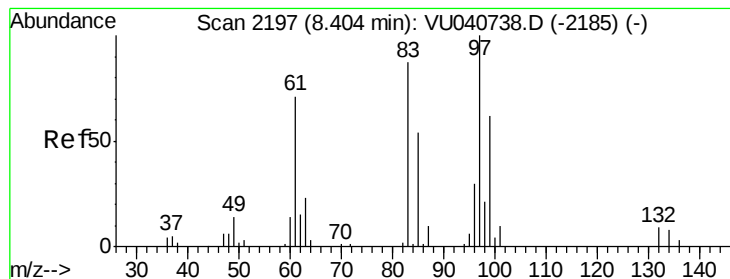
77 60.4 20.4 38.0#



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0





#45

1,1,2-Trichloroethane

Concen: 0.048 ug/L

RT: 8.41 min Scan# 2199

Delta R.T. 0.01 min

Lab File: VU040747.D

Acq: 16 Oct 2020 14:24

Instrument :

MSVOA_U

ClientSampled :

C0AJ0

Tot Ion: 97 Resp: 377

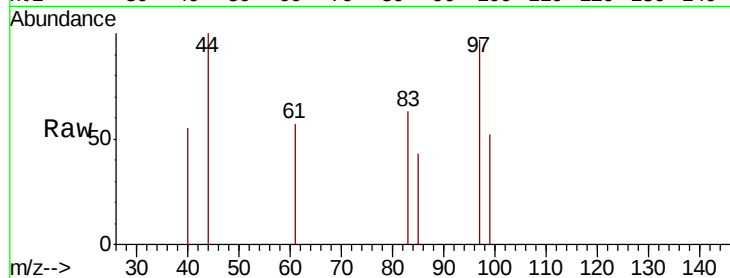
Ion Ratio Lower Upper

97 100

99 53.6 44.0 81.6

83 64.4 62.9 116.9

85 44.3 40.3 74.8

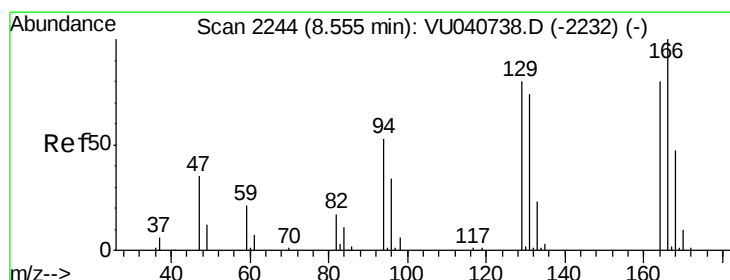
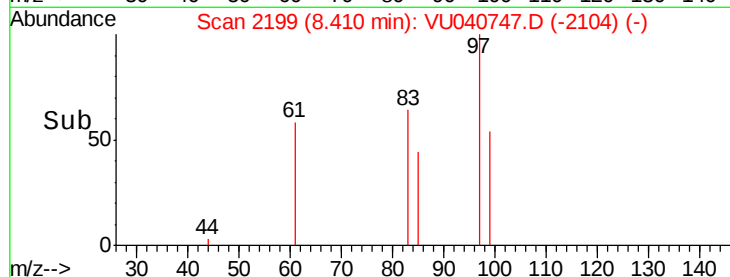
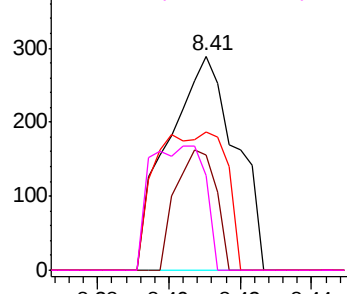


Abundance Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0



#47

Tetrachloroethene

Concen: 10.564 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. 0.00 min

Lab File: VU040747.D

Acq: 16 Oct 2020 14:24

Tgt Ion: 164 Resp: 72774

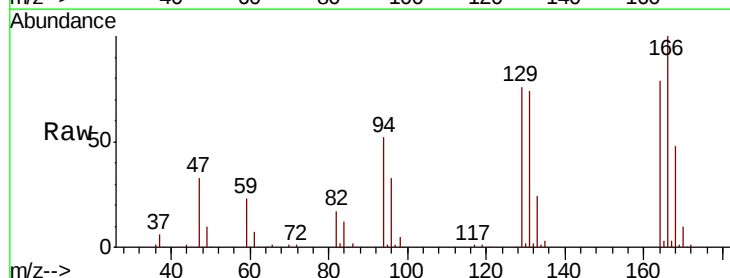
Ion Ratio Lower Upper

164 100

129 96.6 68.8 127.8

131 93.2 66.7 123.9

166 126.7 83.9 155.7

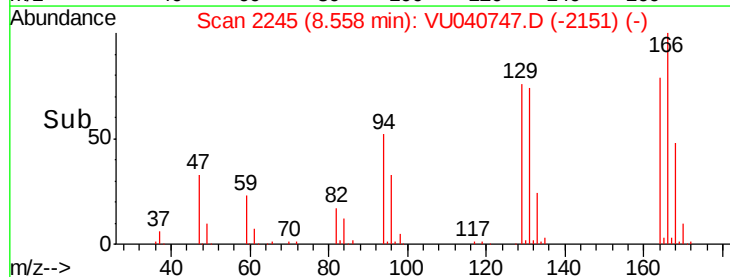
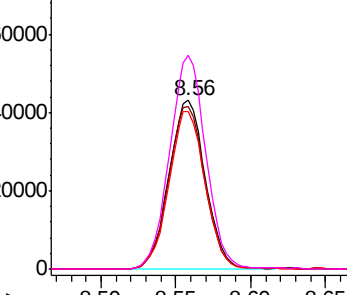


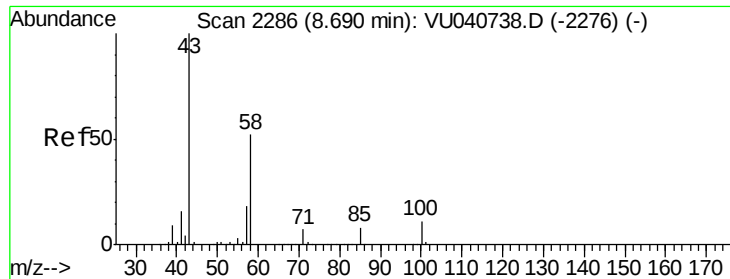
Abundance Ion 163.90 (163.60 to 164.60): V

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

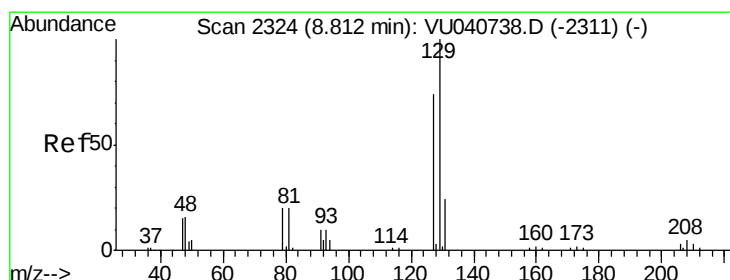
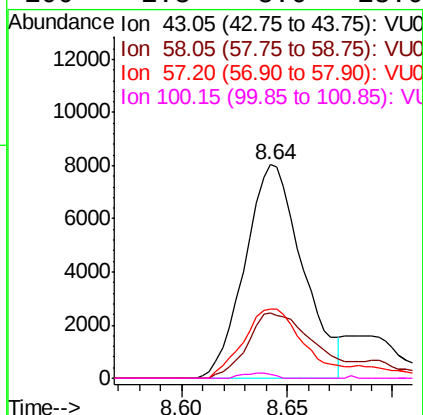
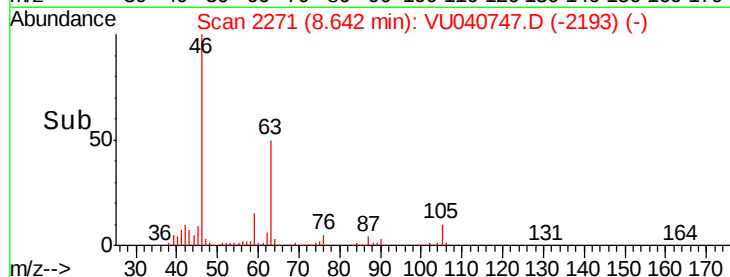
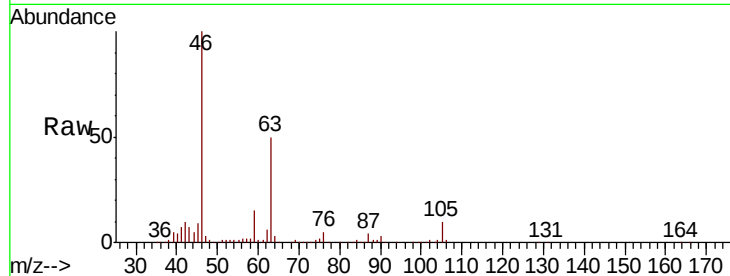




#48
2-Hexanone
Concen: 2.480 ug/L
RT: 8.64 min Scan# 2271
Delta R.T. -0.05 min
Lab File: VU040747.D
Acq: 16 Oct 2020 14:24

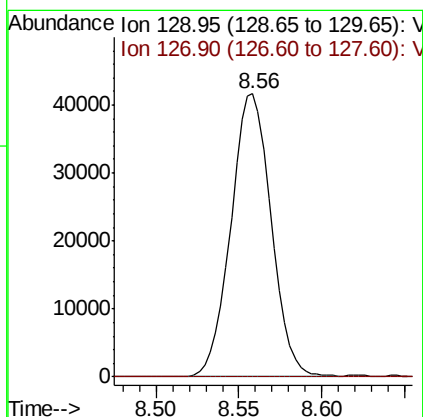
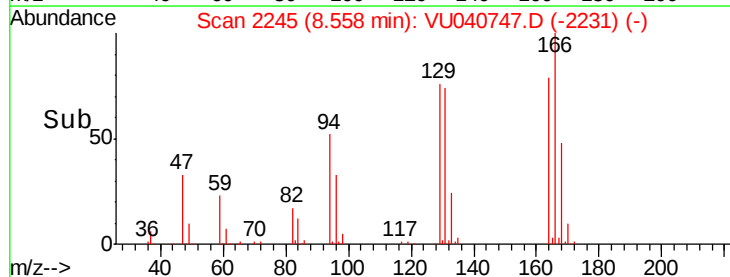
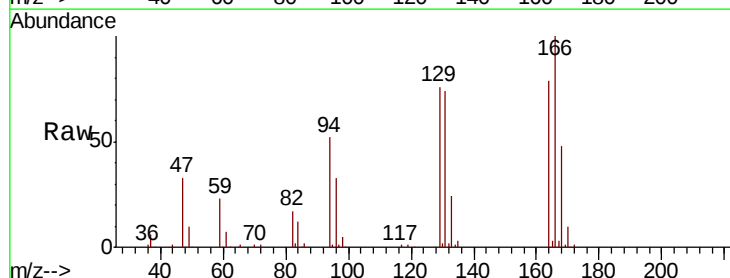
Instrument :
MSVOA_U
ClientSampleId :
C0AJ0

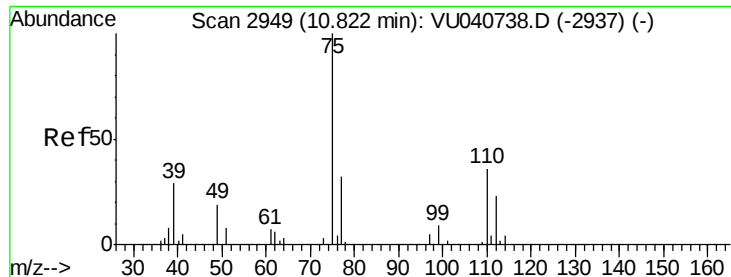
Tot Ion: 43 Resp: 15276
Ion Ratio Lower Upper
43 100
58 35.9 41.0 61.6#
57 34.5 14.4 21.6#
100 1.3 8.6 13.0#



#49
Dibromochloromethane
Concen: 7.868 ug/L
RT: 8.56 min Scan# 2245
Delta R.T. -0.25 min
Lab File: VU040747.D
Acq: 16 Oct 2020 14:24

Tgt Ion: 129 Resp: 70376
Ion Ratio Lower Upper
129 100
127 0.3 55.8 103.6#





#59

1,2,3-Trichloropropane

Concen: 0.814 ug/L

RT: 11.81 min Scan# 3256

Delta R.T. 0.99 min

Lab File: VU040747.D

Acq: 16 Oct 2020 14:24

Instrument :

MSVOA_U

ClientSampleId :

C0AJ0

Tot Ion: 75 Resp: 6206

Ion Ratio Lower Upper

75 100

77 38.6 26.4 39.6

