

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111720\
 Data File : VU041302.D
 Acq On : 18 Nov 2020 01:49
 Operator : SY/MD
 Sample : L4759-11DL 10X
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 H4428DL

Quant Time: Nov 18 06:12:54 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR111620WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Nov 18 00:06:52 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	63403	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	68270	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	25659	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	23422	5.02	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	100.40%
7) Chloroethane-d5	1.92	69	21577	5.41	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	108.20%
11) 1,1-Dichloroethene-d2	2.58	63	37759	3.92	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	78.40%
20) 2-Butanone-d5	4.67	46	94178	48.98	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	97.96%
24) Chloroform-d	5.08	84	51047	5.06	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.20%
26) 1,2-Dichloroethane-d4	5.72	65	33035	5.02	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.40%
32) Benzene-d6	5.74	84	89858	4.88	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.60%
36) 1,2-Dichloropropane-d6	6.70	67	30278	4.77	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	95.40%
41) Toluene-d8	7.91	98	71807	4.14	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	82.80%
43) trans-1,3-Dichloropropene-	8.19	79	12533	4.59	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	91.80%
46) 2-Hexanone-d5	8.64	63	69017	47.33	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	94.66%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	25748	4.18	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	83.60%
64) 1,2-Dichlorobenzene-d4	12.19	152	27149	5.42	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	108.40%

Target Compounds

					Ovalue
3) Chloromethane	1.52	50	326	0.058 ug/L #	43
5) Vinyl chloride	1.61	62	1578	0.287 ug/L #	75
8) Chloroethane	1.95	64	280	0.077 ug/L #	43
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	259	0.055 ug/L #	22
12) 1,1-Dichloroethene	2.58	96	255	0.062 ug/L #	1
16) Methylene chloride	3.06	84	3298	0.637 ug/L	97
18) trans-1,2-Dichloroethene	3.37	96	2327	0.579 ug/L	90
19) 1,1-Dichloroethane	3.89	63	567	0.063 ug/L #	51
22) cis-1,2-Dichloroethene	4.69	96	27210	5.994 ug/L	100
25) Chloroform	5.11	83	835	0.086 ug/L	89
27) 1,2-Dichloroethane	5.75	62	532	0.076 ug/L #	74
33) Benzene	5.74	78	853	0.046 ug/L	100
34) Trichloroethene	6.55	95	39770	7.954 ug/L	98
35) Methylcyclohexane	6.70	83	7230	1.088 ug/L #	13
37) 1,2-Dichloropropane	6.70	63	3762	0.696 ug/L #	86
39) cis-1,3-Dichloropropene	7.57	75	761	0.101 ug/L #	44
44) trans-1,3-Dichloropropene	8.18	75	685	0.096 ug/L #	62

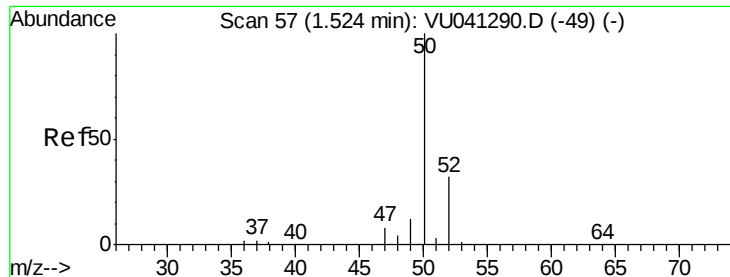
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111720\
Data File : VU041302.D
Acq On : 18 Nov 2020 01:49
Operator : SY/MD
Sample : L4759-11DL 10X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 39 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
H4428DL

Quant Time: Nov 18 06:12:54 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR111620WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Nov 18 00:06:52 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) Tetrachloroethene	8.56	164	1311	0.355	ug/L	84
48) 2-Hexanone	8.64	43	10705	3.204	ug/L #	67
49) Dibromochloromethane	8.56	129	1284	0.259	ug/L #	11
59) 1,2,3-Trichloropropane	11.81	75	3773	0.885	ug/L	96

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



#3

Chloromethane

Concen: 0.058 ug/L

RT: 1.52 min Scan# 56

Delta R.T. -0.00 min

Lab File: VU041302.D

Acq: 18 Nov 2020 01:49

Instrument :

MSVOA_U

ClientSampleId :

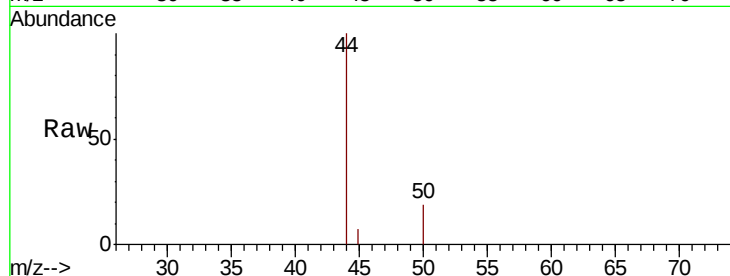
H4428DL

Tot Ion: 50 Resp: 326

Ion Ratio Lower Upper

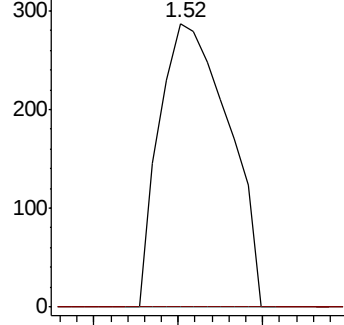
50 100

52 0.0 22.4 41.6#

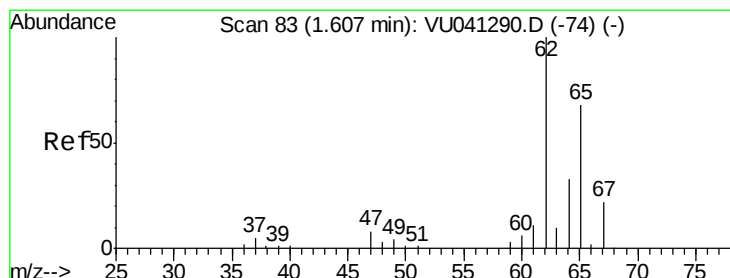
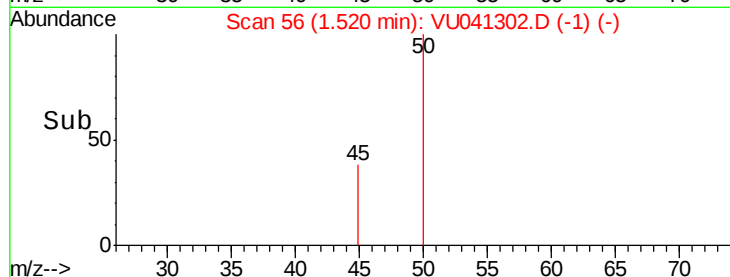


Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0



Time-->



#5

Vinyl chloride

Concen: 0.287 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU041302.D

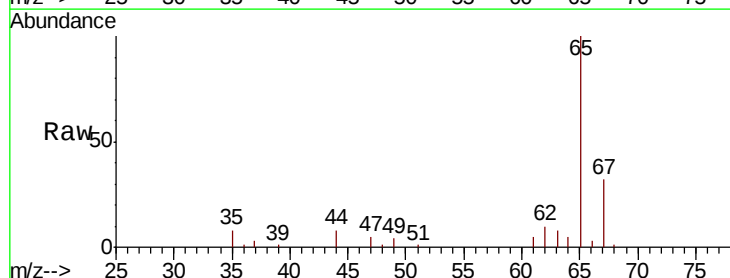
Acq: 18 Nov 2020 01:49

Tgt Ion: 62 Resp: 1578

Ion Ratio Lower Upper

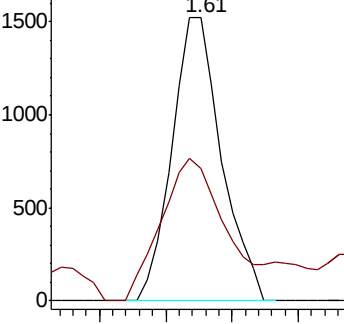
62 100

64 46.5 22.7 42.3#

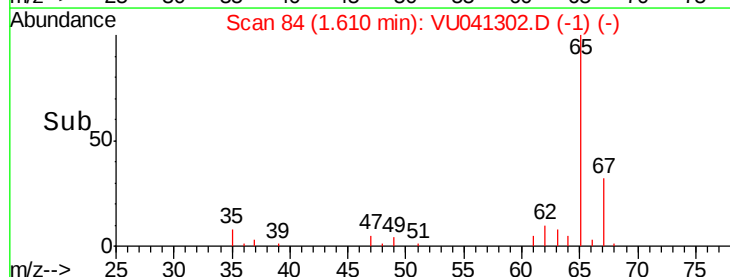


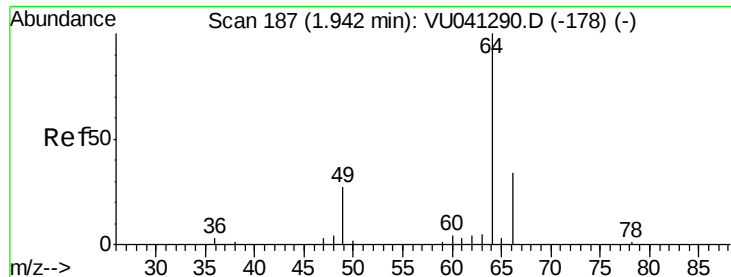
Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



Time-->

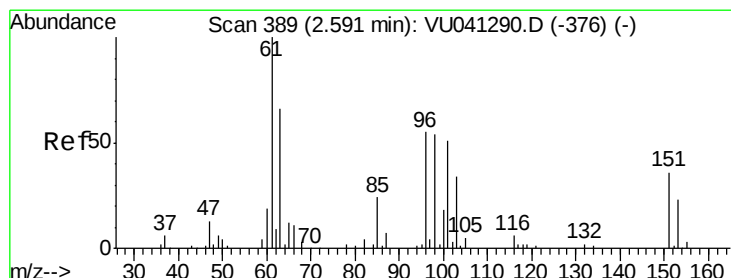
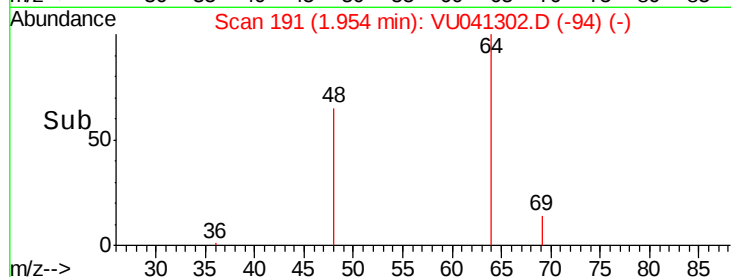
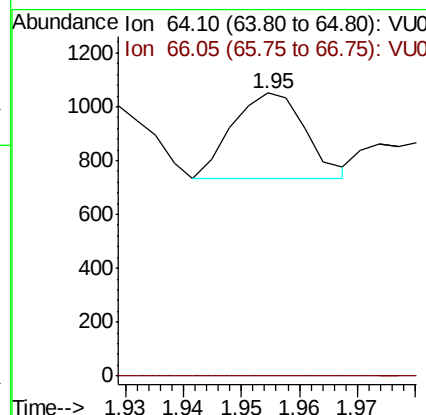
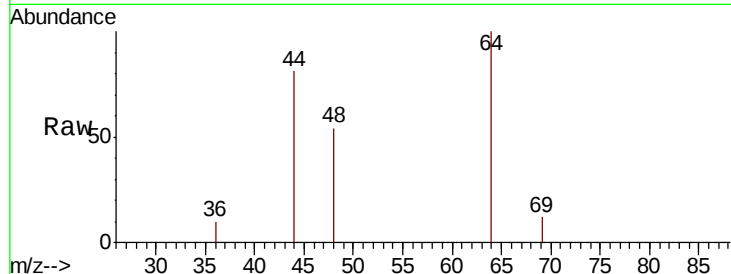




#8
Chloroethane
Concen: 0.077 ug/L
RT: 1.95 min Scan# 191
Delta R.T. 0.01 min
Lab File: VU041302.D
Acq: 18 Nov 2020 01:49

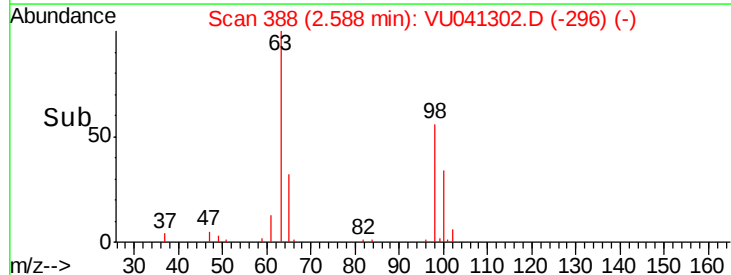
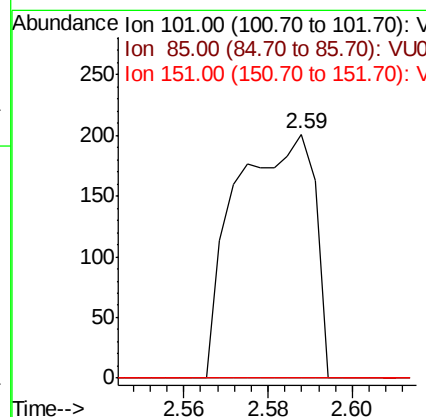
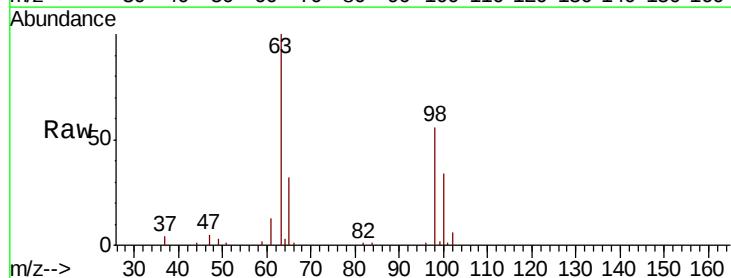
Instrument :
MSVOA_U
ClientSampleId :
H4428DL

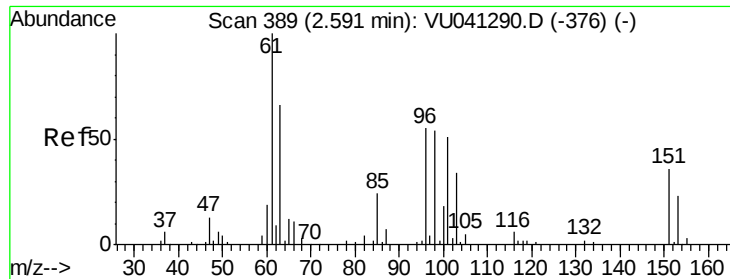
Tot Ion: 64 Resp: 280
Ion Ratio Lower Upper
64 100
66 0.0 22.3 41.5#



#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.055 ug/L
RT: 2.59 min Scan# 388
Delta R.T. -0.00 min
Lab File: VU041302.D
Acq: 18 Nov 2020 01:49

Tgt Ion: 101 Resp: 259
Ion Ratio Lower Upper
101 100
85 0.0 35.0 52.4#
151 0.0 55.3 82.9#





#12

1,1-Dichloroethene

Concen: 0.062 ug/L

RT: 2.58 min Scan# 385

Delta R.T. -0.01 min

Lab File: VU041302.D

Acq: 18 Nov 2020 01:49

Instrument :

MSVOA_U

ClientSampleId :

H4428DL

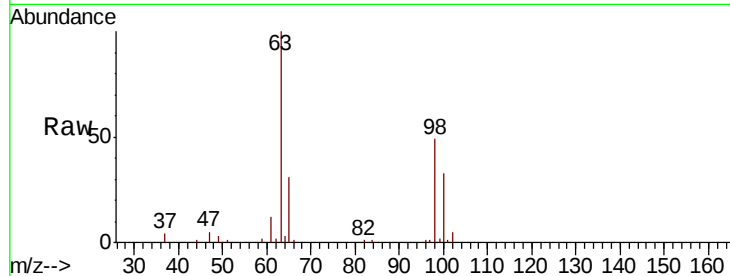
Tot Ion: 96 Resp: 255

Ion Ratio Lower Upper

96 100

61 1405.5 134.3 249.5#

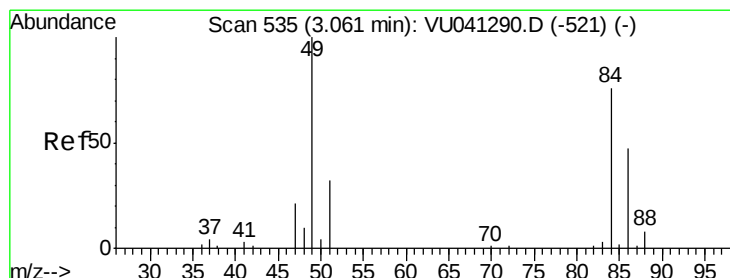
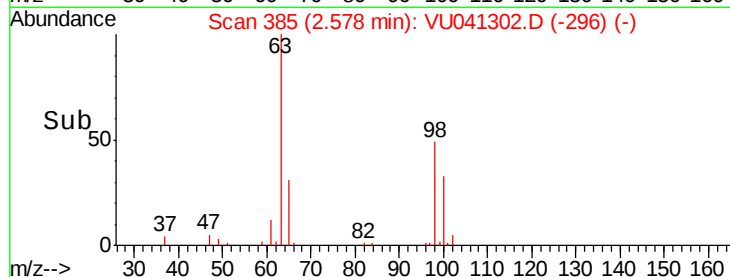
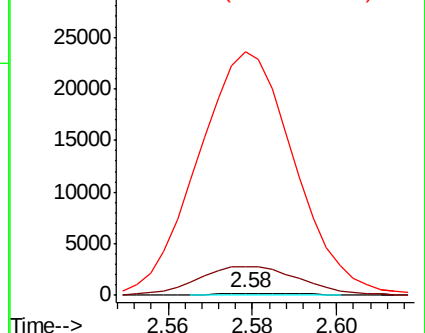
63 11847.2 95.0 176.4#



Abundance Ion 96.00 (95.70 to 96.70): VU041302.D (-296) (-)

Ion 61.05 (60.75 to 61.75): VU041302.D (-296) (-)

Ion 63.00 (62.70 to 63.70): VU041302.D (-296) (-)



#16

Methylene chloride

Concen: 0.637 ug/L

RT: 3.06 min Scan# 536

Delta R.T. 0.00 min

Lab File: VU041302.D

Acq: 18 Nov 2020 01:49

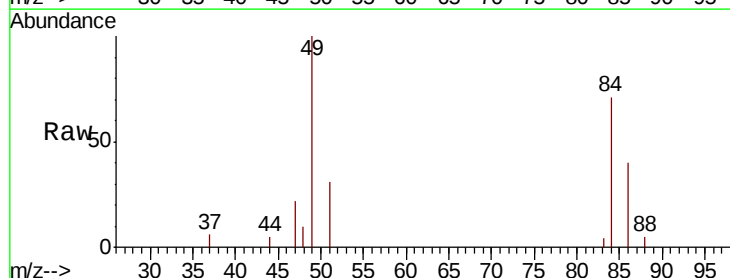
Tgt Ion: 84 Resp: 3298

Ion Ratio Lower Upper

84 100

86 56.0 42.8 79.6

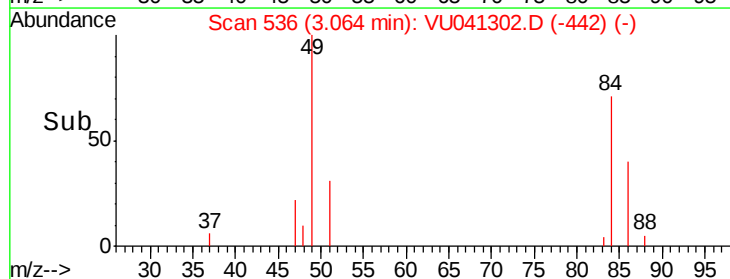
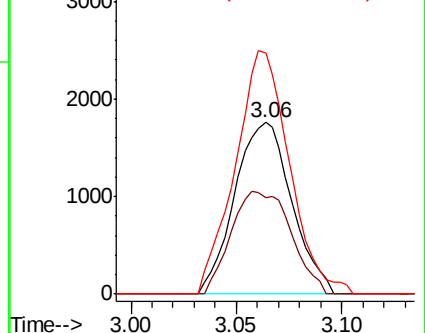
49 140.5 99.5 184.7

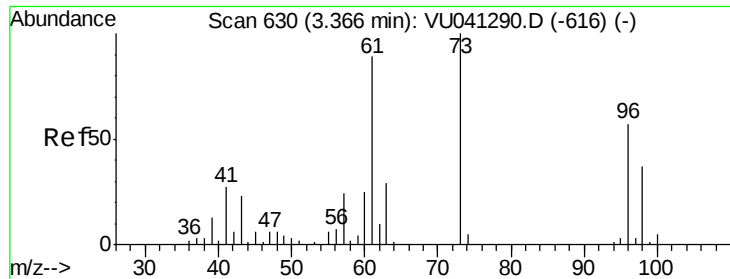


Abundance Ion 84.05 (83.75 to 84.75): VU041302.D (-442) (-)

Ion 86.00 (85.70 to 86.70): VU041302.D (-442) (-)

Ion 49.10 (48.80 to 49.80): VU041302.D (-442) (-)

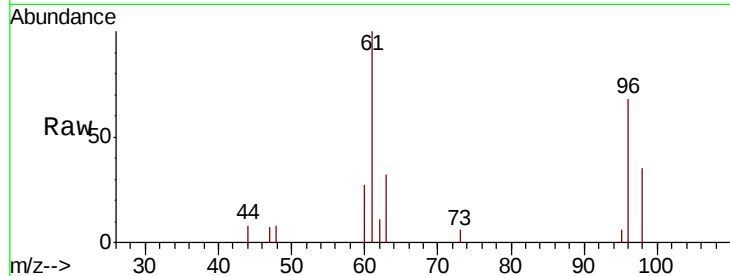




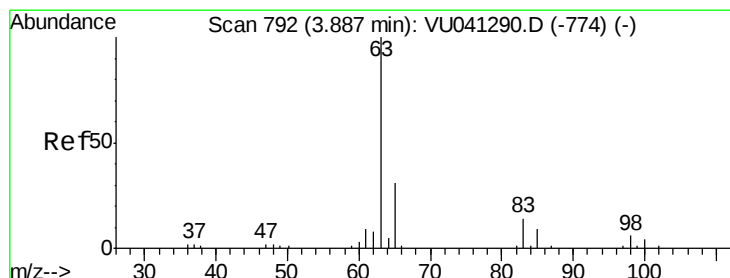
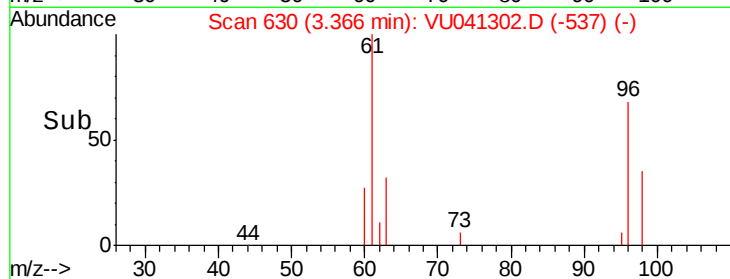
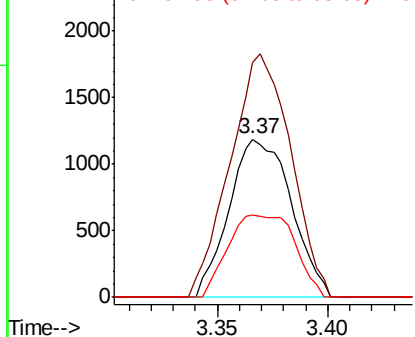
#18
trans-1,2-Dichloroethene
Concen: 0.579 ug/L
RT: 3.37 min Scan# 630
Delta R.T. -0.00 min
Lab File: VU041302.D
Acq: 18 Nov 2020 01:49

Instrument :
MSVOA_U
ClientSampleId :
H4428DL

Tot Ion: 96 Resp: 2327
Ion Ratio Lower Upper
96 100
61 148.1 110.9 205.9
98 52.4 45.4 84.2

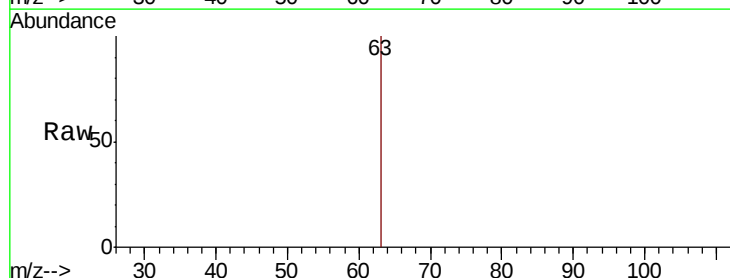


Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 97.95 (97.65 to 98.65): VU0

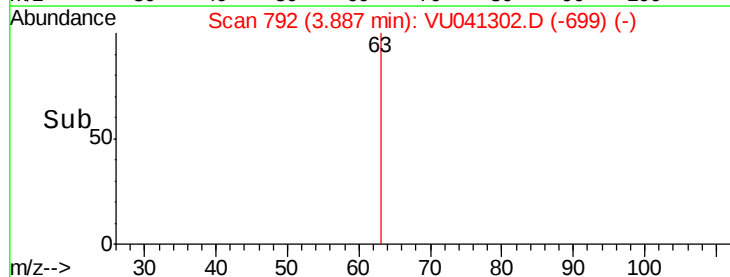
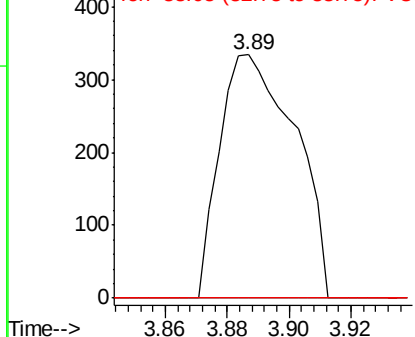


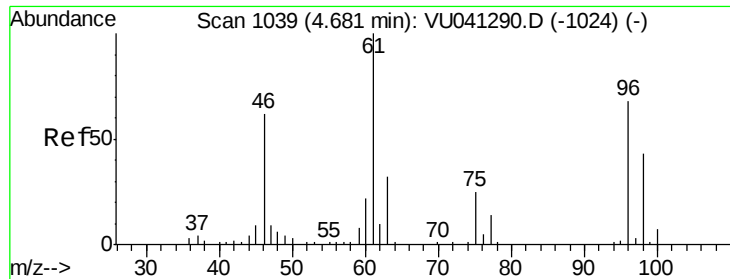
#19
1,1-Dichloroethane
Concen: 0.063 ug/L
RT: 3.89 min Scan# 792
Delta R.T. -0.00 min
Lab File: VU041302.D
Acq: 18 Nov 2020 01:49

Tgt Ion: 63 Resp: 567
Ion Ratio Lower Upper
63 100
65 0.0 21.3 39.6#
83 0.0 8.8 16.3#



Abundance Ion 63.10 (62.80 to 63.80): VU0
Ion 65.10 (64.80 to 65.80): VU0
Ion 83.05 (82.75 to 83.75): VU0

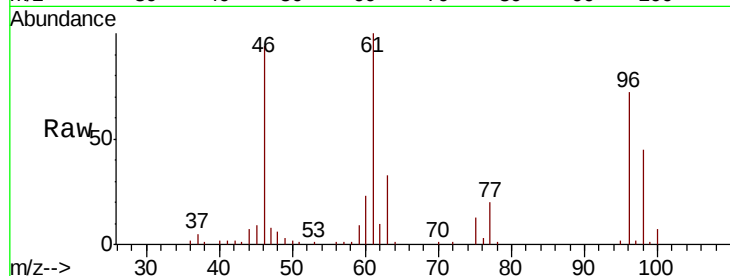




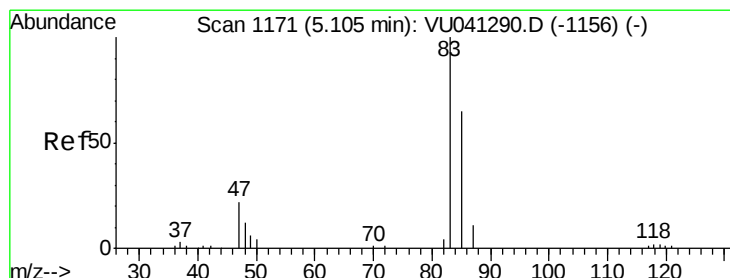
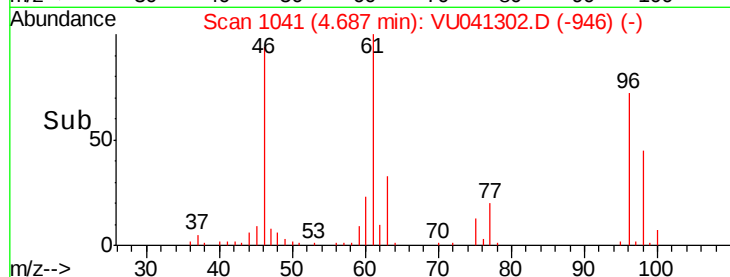
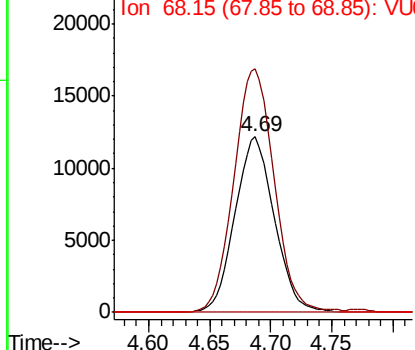
#22
 cis-1,2-Dichloroethene
 Concen: 5.994 ug/L
 RT: 4.69 min Scan# 1041
 Delta R.T. 0.01 min
 Lab File: VU041302.D
 Acq: 18 Nov 2020 01:49

Instrument :
 MSVOA_U
 ClientSampleId :
 H4428DL

Tot Ion: 96 Resp: 27210
 Ion Ratio Lower Upper
 96 100
 61 138.9 97.2 180.4
 68 0.0 0.0 0.0

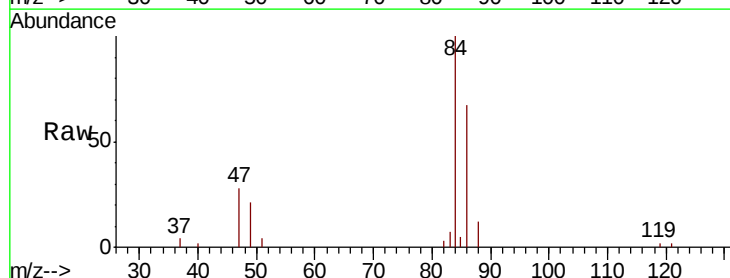


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0

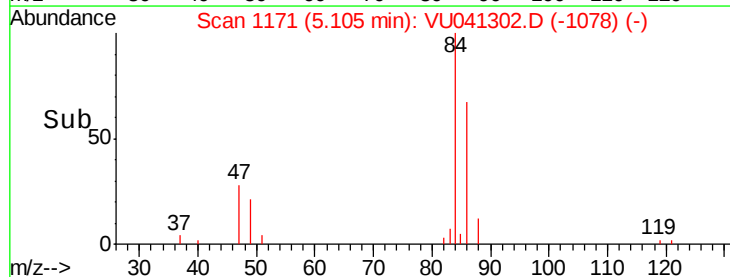
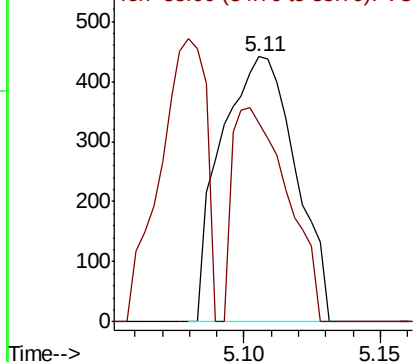


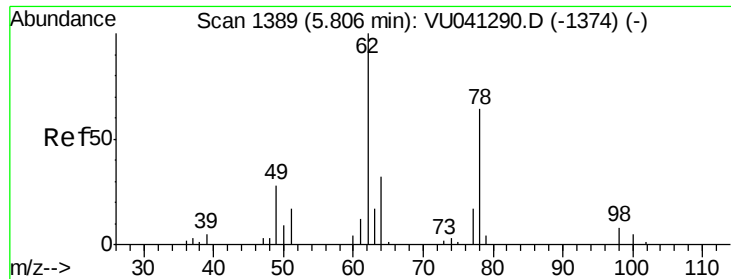
#25
 Chloroform
 Concen: 0.086 ug/L
 RT: 5.11 min Scan# 1171
 Delta R.T. -0.00 min
 Lab File: VU041302.D
 Acq: 18 Nov 2020 01:49

Tgt Ion: 83 Resp: 835
 Ion Ratio Lower Upper
 83 100
 85 74.8 46.1 85.7



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

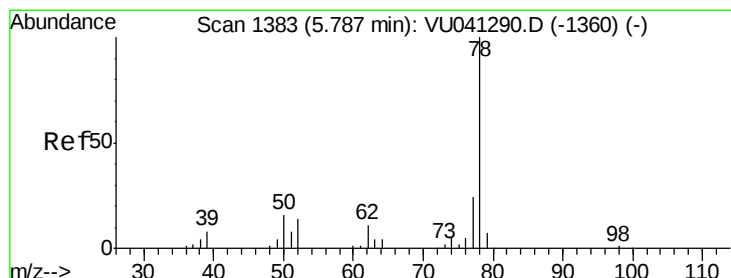
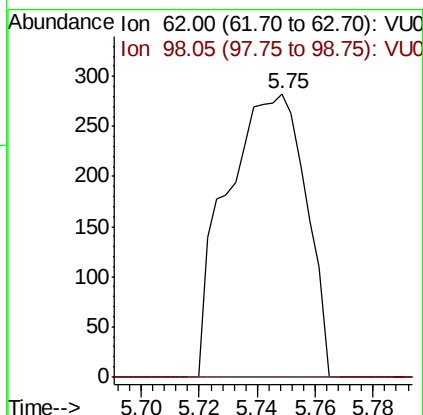
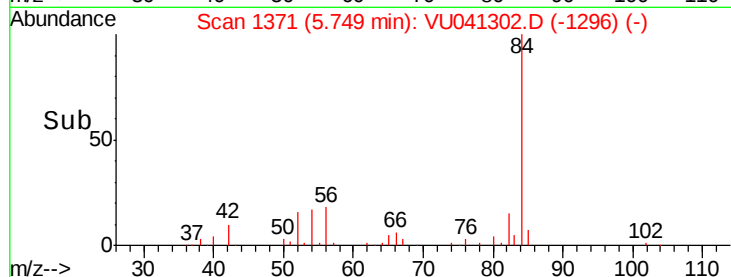
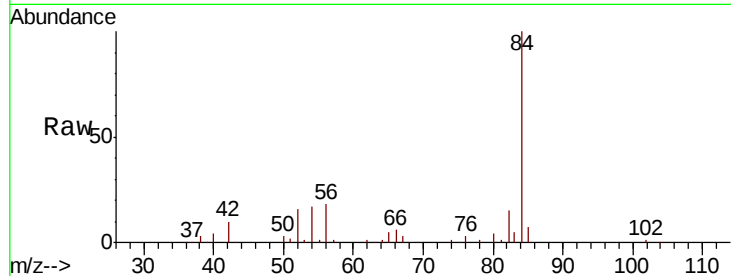




#27
 1,2-Dichloroethane
 Concen: 0.076 ug/L
 RT: 5.75 min Scan# 1371
 Delta R.T. -0.06 min
 Lab File: VU041302.D
 Acq: 18 Nov 2020 01:49

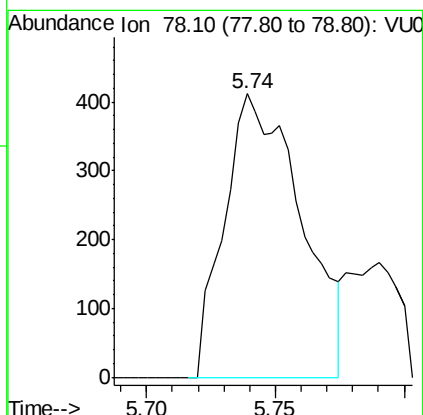
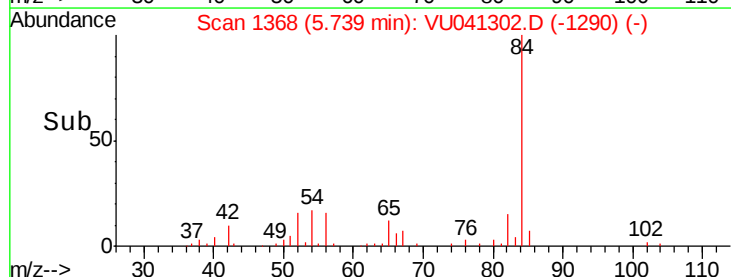
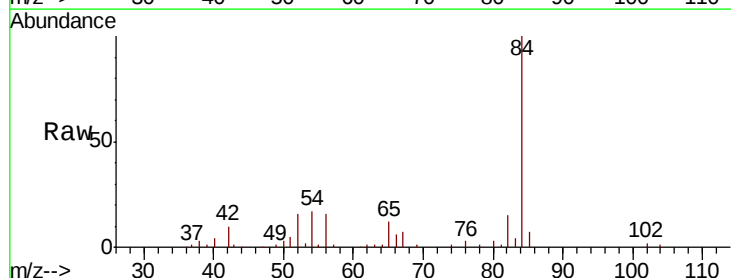
Instrument :
 MSVOA_U
 ClientSampleId :
 H4428DL

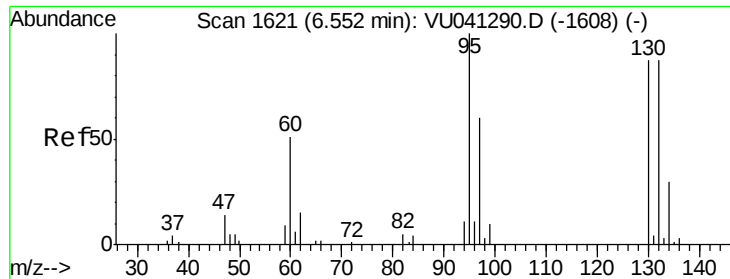
Tot Ion: 62 Resp: 532
 Ion Ratio Lower Upper
 62 100
 98 0.0 7.6 11.4#



#33
 Benzene
 Concen: 0.046 ug/L
 RT: 5.74 min Scan# 1368
 Delta R.T. -0.05 min
 Lab File: VU041302.D
 Acq: 18 Nov 2020 01:49

Tgt Ion: 78 Resp: 853





#34

Trichloroethene

Concen: 7.954 ug/L

RT: 6.55 min Scan# 1621

Delta R.T. -0.00 min

Lab File: VU041302.D

Acq: 18 Nov 2020 01:49

Instrument :

MSVOA_U

ClientSampleId :

H4428DL

Tot Ion: 95 Resp: 39770

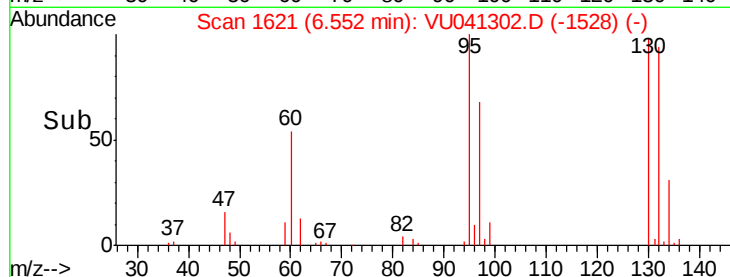
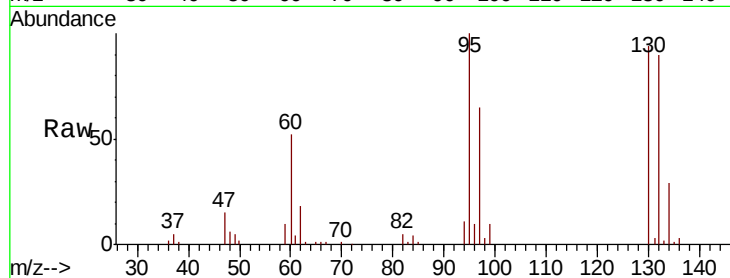
Ion Ratio Lower Upper

95 100

97 65.1 45.6 84.6

132 90.1 64.8 120.4

130 94.3 64.8 120.4

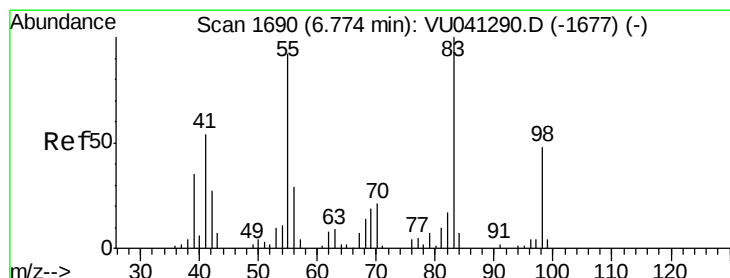
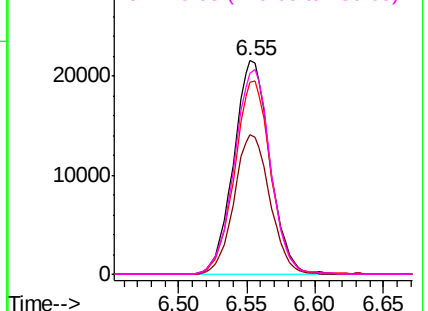


Abundance Ion 95.00 (94.70 to 95.70): VU041302.D (-1528) (-)

Ion 96.95 (96.65 to 97.65): VU041302.D (-1528) (-)

Ion 131.95 (131.65 to 132.65): VU041302.D (-1528) (-)

Ion 129.95 (129.65 to 130.65): VU041302.D (-1528) (-)



#35

Methylcyclohexane

Concen: 1.088 ug/L

RT: 6.70 min Scan# 1668

Delta R.T. -0.07 min

Lab File: VU041302.D

Acq: 18 Nov 2020 01:49

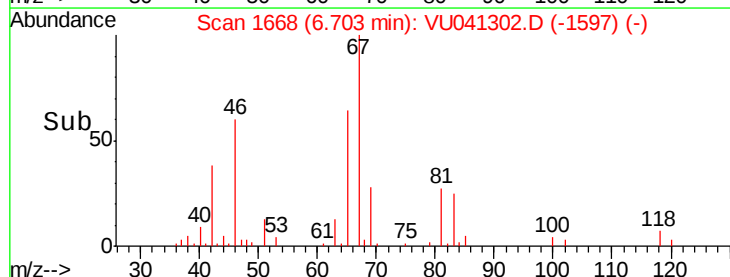
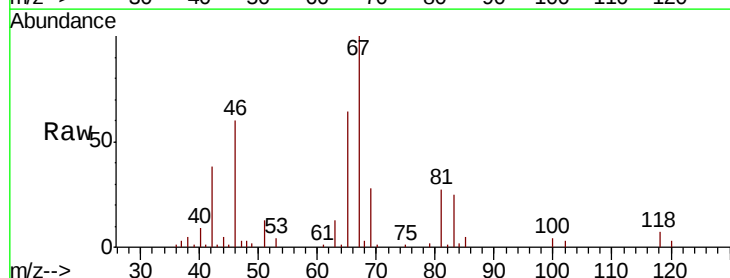
Tgt Ion: 83 Resp: 7230

Ion Ratio Lower Upper

83 100

55 0.0 72.0 108.0#

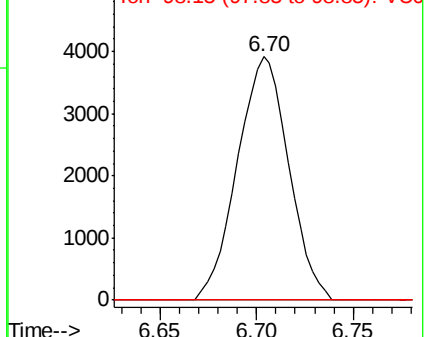
98 0.0 36.6 55.0#

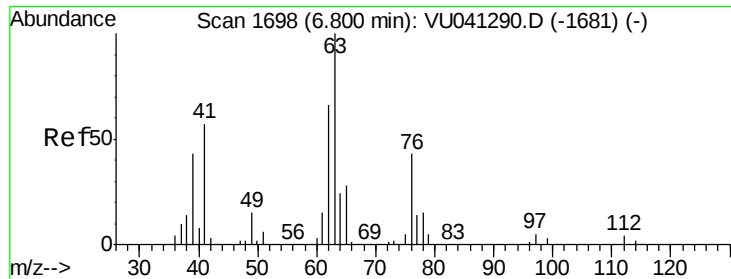


Abundance Ion 83.15 (82.85 to 83.85): VU041302.D (-1597) (-)

Ion 55.10 (54.80 to 55.80): VU041302.D (-1597) (-)

Ion 98.15 (97.85 to 98.85): VU041302.D (-1597) (-)

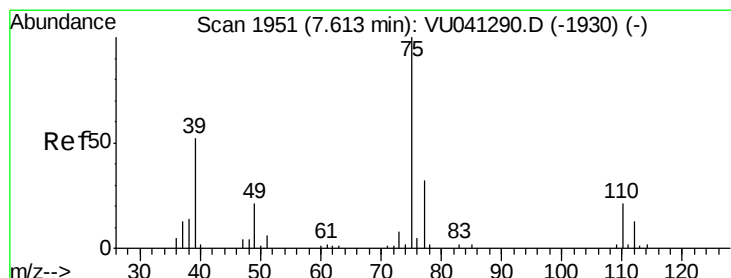
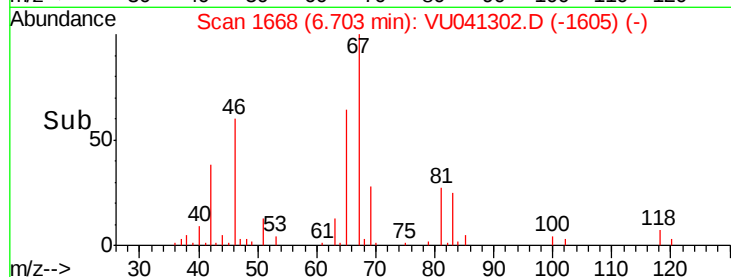
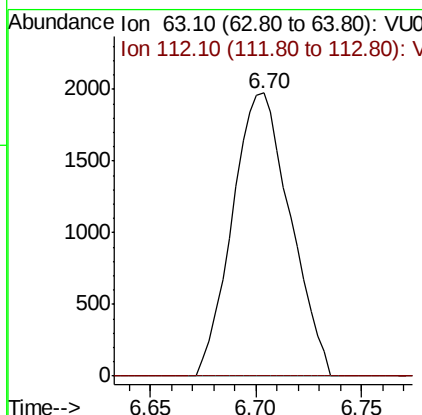
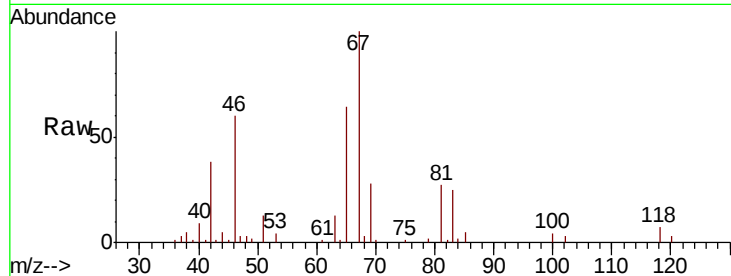




#37
 1,2-Dichloropropane
 Concen: 0.696 ug/L
 RT: 6.70 min Scan# 1668
 Delta R.T. -0.10 min
 Lab File: VU041302.D
 Acq: 18 Nov 2020 01:49

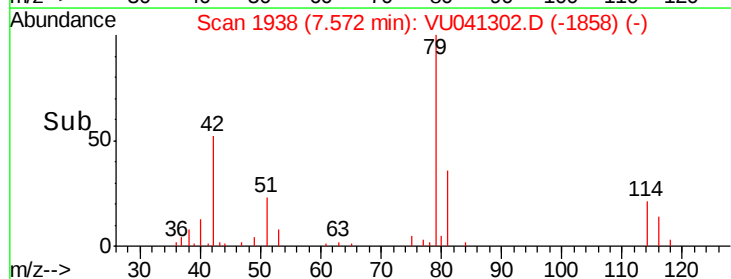
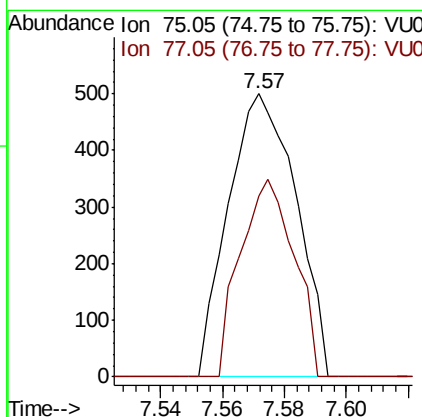
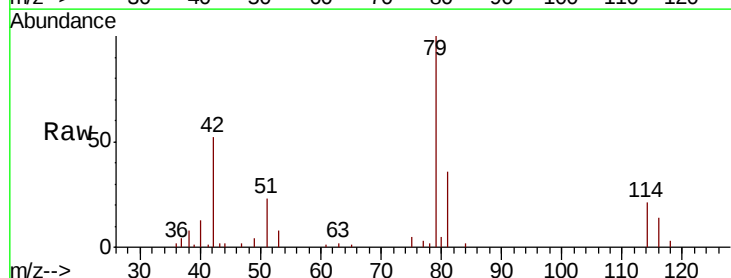
Instrument :
 MSVOA_U
 ClientSampleId :
 H4428DL

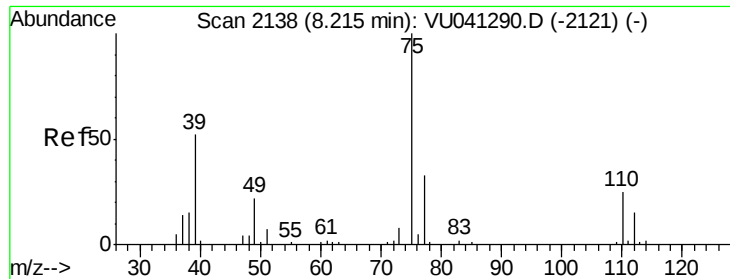
Tot Ion: 63 Resp: 3762
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.6 5.4#



#39
 cis-1,3-Dichloropropene
 Concen: 0.101 ug/L
 RT: 7.57 min Scan# 1938
 Delta R.T. -0.04 min
 Lab File: VU041302.D
 Acq: 18 Nov 2020 01:49

Tgt Ion: 75 Resp: 761
 Ion Ratio Lower Upper
 75 100
 77 63.8 22.7 42.3#





#44

trans-1,3-Dichloropropene

Concen: 0.096 ug/L

RT: 8.18 min Scan# 2128

Delta R.T. -0.03 min

Lab File: VU041302.D

Acq: 18 Nov 2020 01:49

Instrument :

MSVOA_U

ClientSampleId :

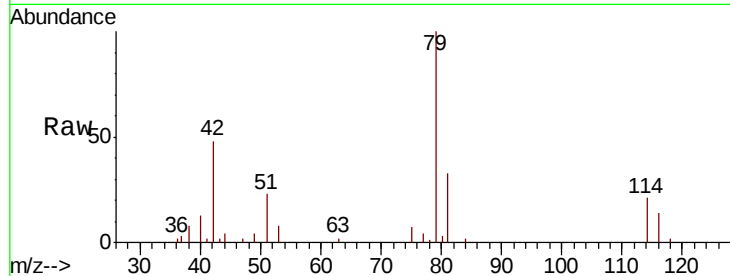
H4428DL

Tot Ion: 75 Resp: 685

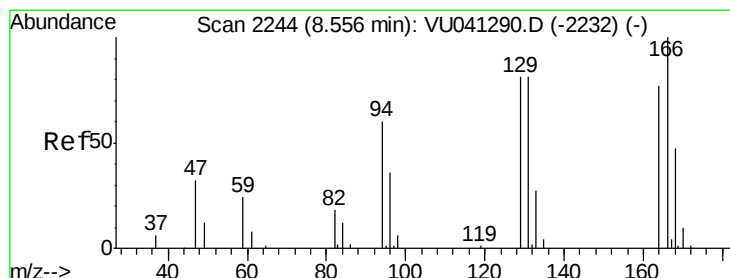
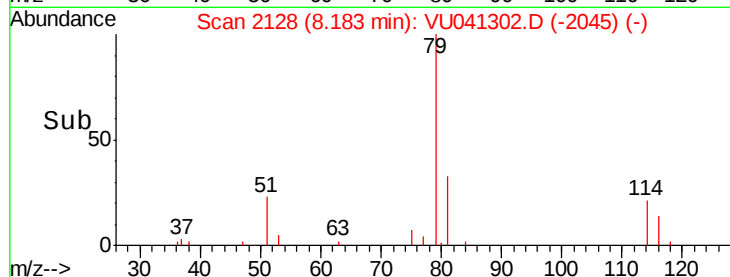
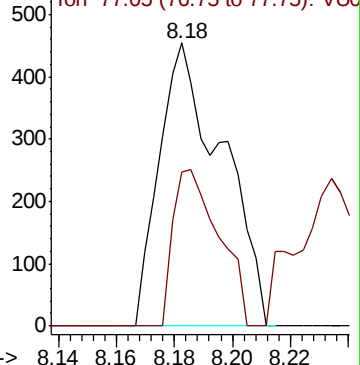
Ion Ratio Lower Upper

75 100

77 54.6 23.3 43.3#



Abundance Ion 75.05 (74.75 to 75.75): VU041302.D (-2045) (-)



#47

Tetrachloroethene

Concen: 0.355 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. 0.00 min

Lab File: VU041302.D

Acq: 18 Nov 2020 01:49

Tgt Ion: 164 Resp: 1311

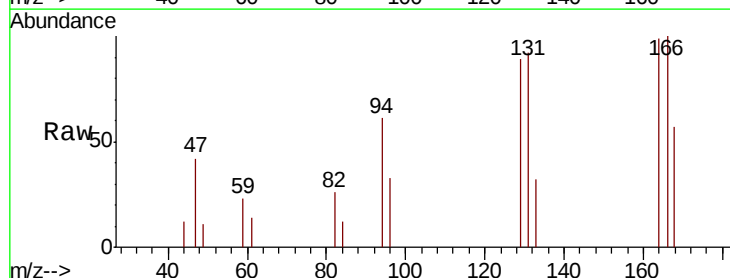
Ion Ratio Lower Upper

164 100

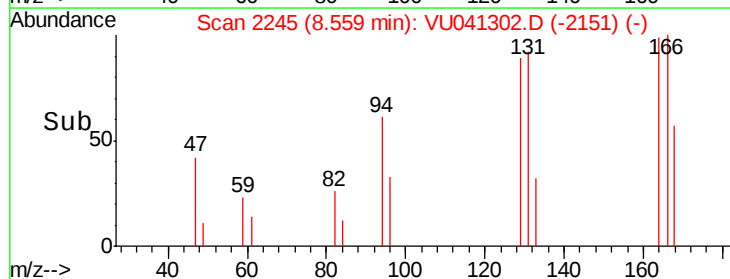
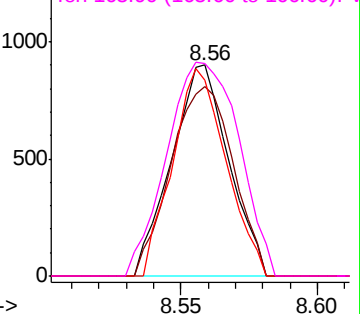
129 89.8 70.3 130.7

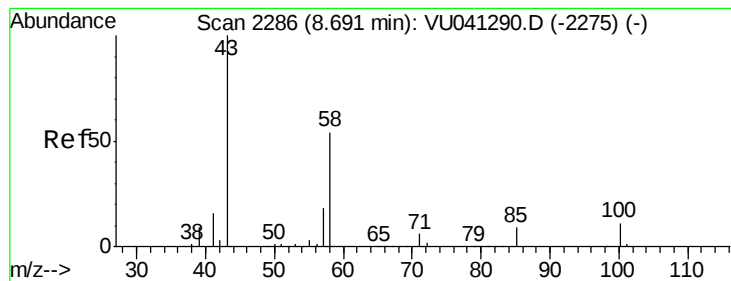
131 92.8 70.8 131.4

166 101.0 92.0 170.8



Abundance Ion 163.90 (163.60 to 164.60): VU041302.D (-2151) (-)





#48

2-Hexanone

Concen: 3.204 ug/L

RT: 8.64 min Scan# 2271

Delta R.T. -0.05 min

Lab File: VU041302.D

Acq: 18 Nov 2020 01:49

Instrument :

MSVOA_U

ClientSampleId :

H4428DL

Tot Ion: 43 Resp: 10705

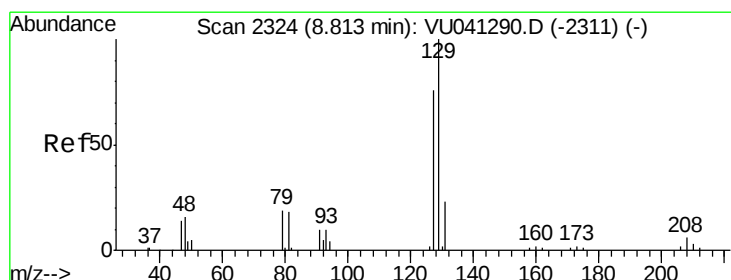
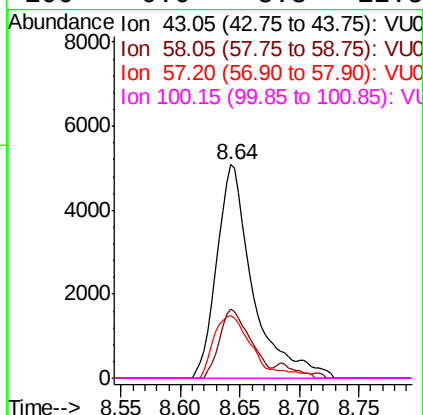
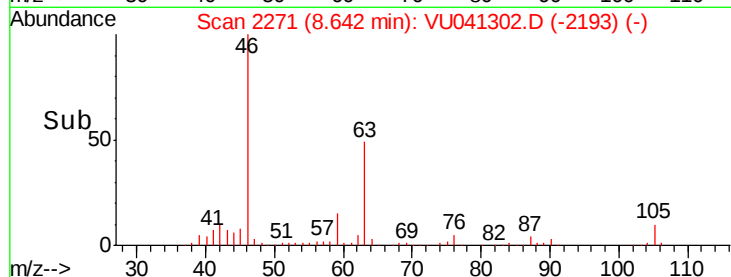
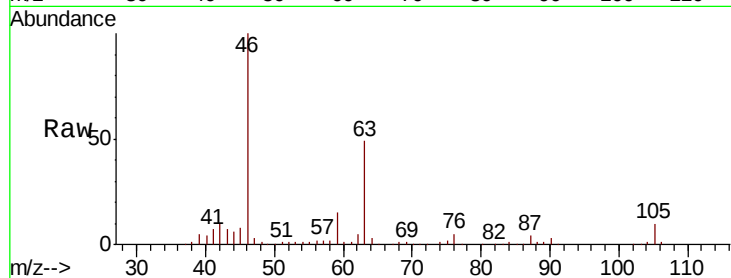
Ion Ratio Lower Upper

43 100

58 27.6 41.4 62.2#

57 31.8 14.6 21.8#

100 0.0 8.3 12.5#



#49

Dibromochloromethane

Concen: 0.259 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. -0.25 min

Lab File: VU041302.D

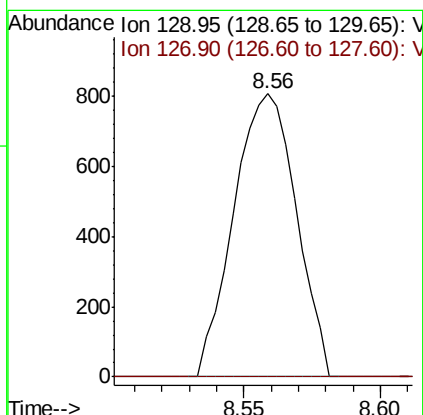
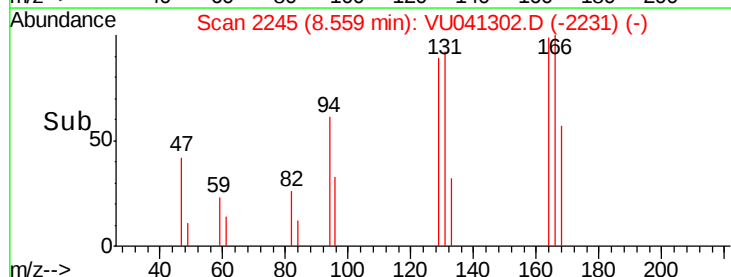
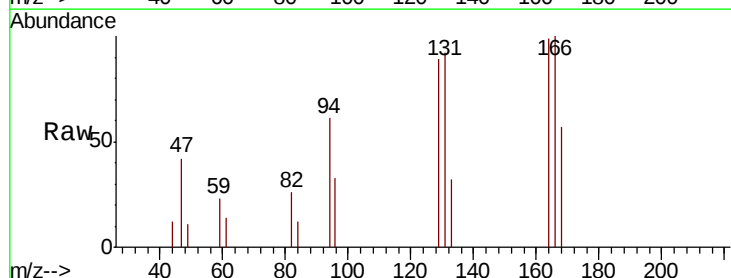
Acq: 18 Nov 2020 01:49

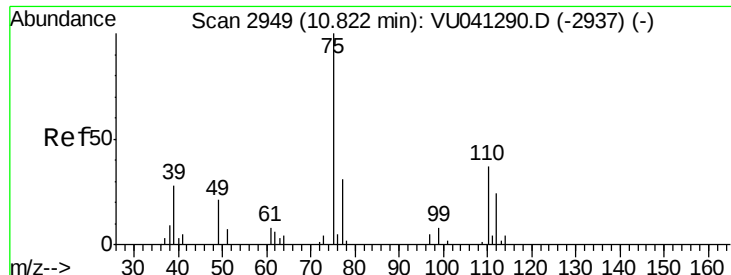
Tgt Ion: 129 Resp: 1284

Ion Ratio Lower Upper

129 100

127 0.0 53.4 99.2#





#59

1,2,3-Trichloropropane

Concen: 0.885 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.98 min

Lab File: VU041302.D

Acq: 18 Nov 2020 01:49

Instrument :

MSVOA_U

ClientSampleId :

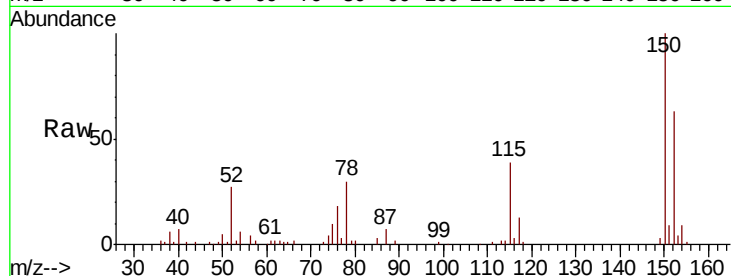
H4428DL

Tot Ion: 75 Resp: 3773

Ion Ratio Lower Upper

75 100

77 34.2 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

