

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU010921\
 Data File : VU041903.D
 Acq On : 08 Jan 2021 14:24
 Operator : SY/MD
 Sample : M1027-10
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jan 09 01:34:37 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR121220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Jan 09 01:31:59 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	135422	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	129077	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	55522	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	36199	3.42	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	68.40%
7) Chloroethane-d5	1.92	69	41011	5.00	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	100.00%
11) 1,1-Dichloroethene-d2	2.58	63	58563	3.00	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	60.00%
20) 2-Butanone-d5	4.65	46	157320	51.73	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	103.46%
24) Chloroform-d	5.08	84	97002	5.35	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	107.00%
26) 1,2-Dichloroethane-d4	5.72	65	53975	5.25	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	105.00%
32) Benzene-d6	5.74	84	181582	4.91	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.20%
36) 1,2-Dichloropropane-d6	6.70	67	61433	5.30	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	106.00%
41) Toluene-d8	7.91	98	146071	4.38	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.60%
43) trans-1,3-Dichloropropene-	8.19	79	20394	3.91	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	78.20%
46) 2-Hexanone-d5	8.64	63	117384	41.21	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	82.42%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	50352	4.78	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	95.60%
64) 1,2-Dichlorobenzene-d4	12.19	152	59950	6.07	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	121.40%#

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.39	85	2344	0.204	ug/L #	83
3) Chloromethane	1.52	50	1357	0.122	ug/L	95
8) Chloroethane	1.94	64	467	0.056	ug/L #	44
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	1479	0.159	ug/L #	85
12) 1,1-Dichloroethene	2.59	96	2257	0.246	ug/L #	1
13) Acetone	2.65	43	4152	2.146	ug/L	88
16) Methylene chloride	3.06	84	3910	0.356	ug/L	99
17) Methyl tert-butyl Ether	3.39	73	3305	0.135	ug/L #	92
18) trans-1,2-Dichloroethene	3.37	96	43893	4.619	ug/L	94
19) 1,1-Dichloroethane	3.89	63	1811	0.102	ug/L #	83
22) cis-1,2-Dichloroethene	4.68	96	92389	8.797	ug/L	94
25) Chloroform	5.11	83	1340	0.075	ug/L	90
29) 1,1,1-Trichloroethane	5.34	97	4952	0.334	ug/L	97
31) Carbon tetrachloride	5.34	117	588	0.046	ug/L	83
33) Benzene	5.78	78	4031	0.098	ug/L	100
34) Trichloroethene	6.55	95	747760	72.085	ug/L	97
35) Methylcyclohexane	6.70	83	14174	0.845	ug/L #	18

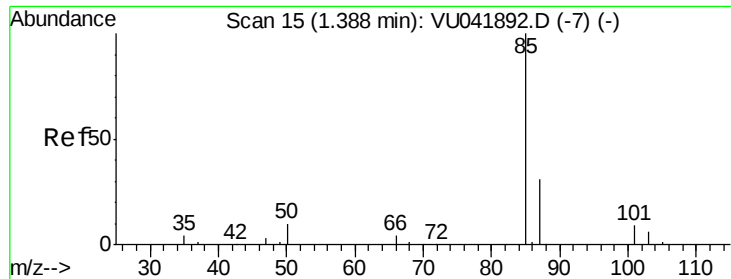
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU010921\
 Data File : VU041903.D
 Acq On : 08 Jan 2021 14:24
 Operator : SY/MD
 Sample : M1027-10
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jan 09 01:34:37 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR121220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Jan 09 01:31:59 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,2-Dichloropropane	6.70	63	6218	0.589	uq/L #	88
39) cis-1,3-Dichloropropene	7.57	75	1406	0.090	uq/L	88
44) trans-1,3-Dichloropropene	8.18	75	699	0.050	uq/L #	63
47) Tetrachloroethene	8.56	164	37343	5.143	uq/L	93
49) Dibromochloromethane	8.56	129	35159	3.920	uq/L #	10
59) 1,2,3-Trichloropropane	11.81	75	5843	0.737	uq/L	95
62) 1,3-Dichlorobenzene	11.83	146	1446	0.085	uq/L	94
63) 1,4-Dichlorobenzene	11.83	146	1446	0.085	uq/L	92
65) 1,2-Dichlorobenzene	12.21	146	1511	0.091	uq/L #	83

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



#2

Dichlorodifluoromethane

Concen: 0.204 ug/L

RT: 1.39 min Scan# 15

Delta R.T. 0.00 min

Lab File: VU041903.D

Acq: 08 Jan 2021 14:24

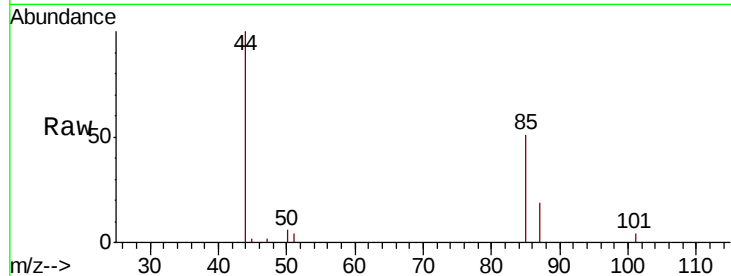
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 85 Resp: 2344

Ion Ratio Lower Upper

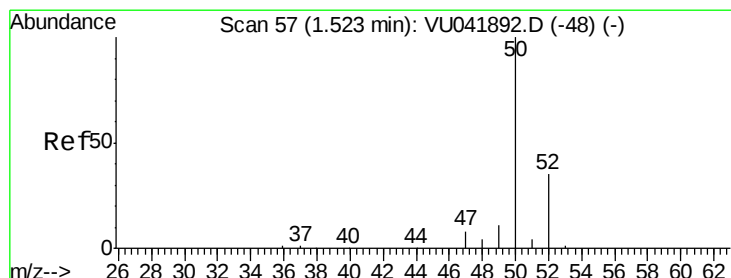
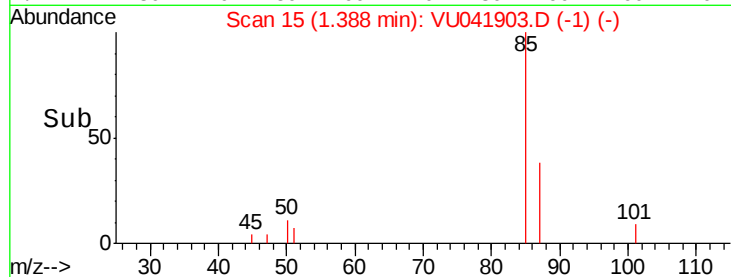
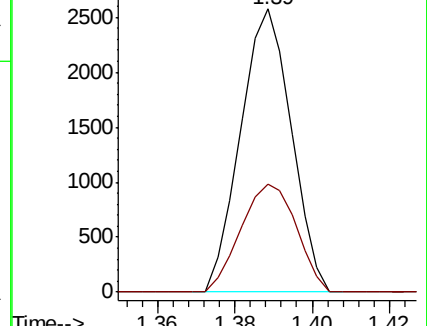
85 100

87 41.6 25.8 38.6#



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 0.122 ug/L

RT: 1.52 min Scan# 57

Delta R.T. 0.00 min

Lab File: VU041903.D

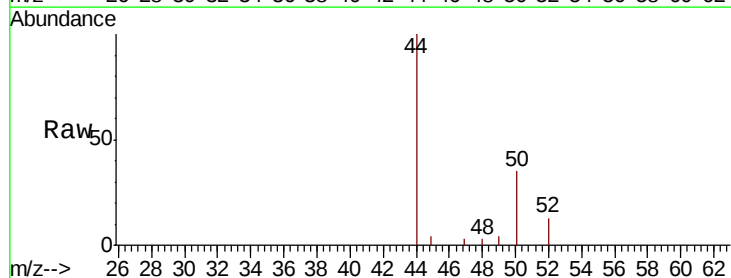
Acq: 08 Jan 2021 14:24

Tgt Ion: 50 Resp: 1357

Ion Ratio Lower Upper

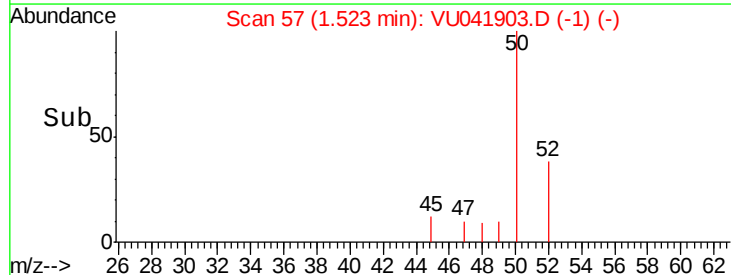
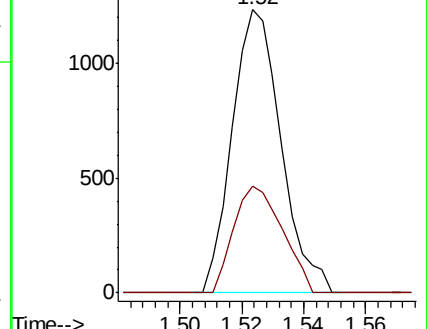
50 100

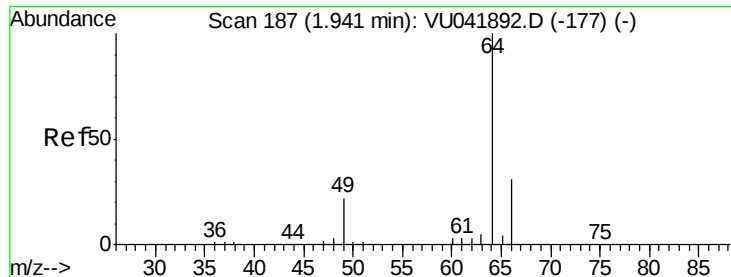
52 37.6 24.1 44.8



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0

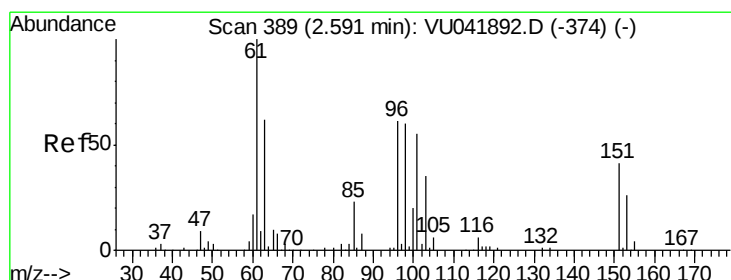
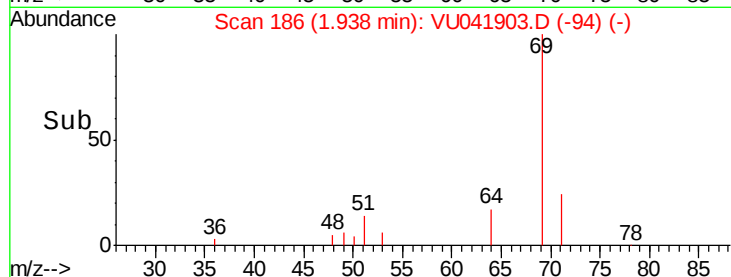
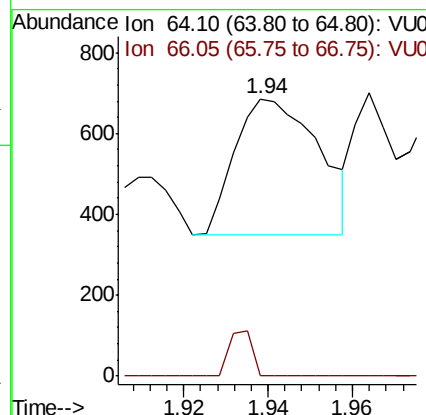
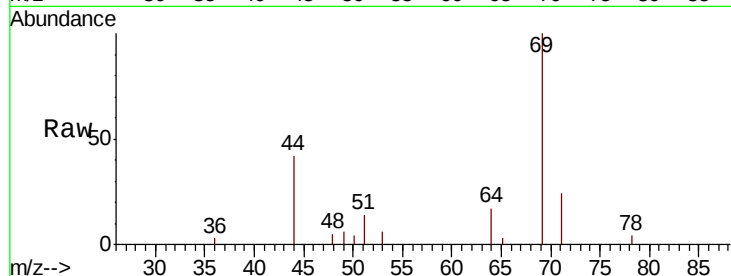




#8
Chloroethane
Concen: 0.056 ug/L
RT: 1.94 min Scan# 186
Delta R.T. -0.00 min
Lab File: VU041903.D
Acq: 08 Jan 2021 14:24

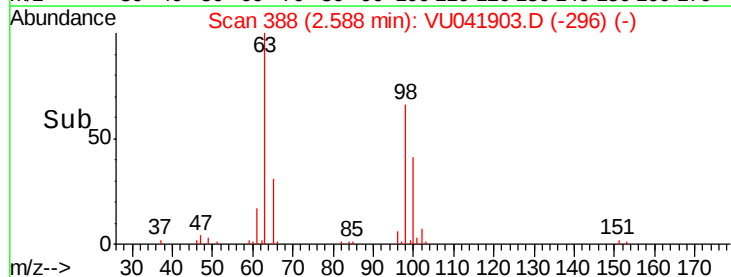
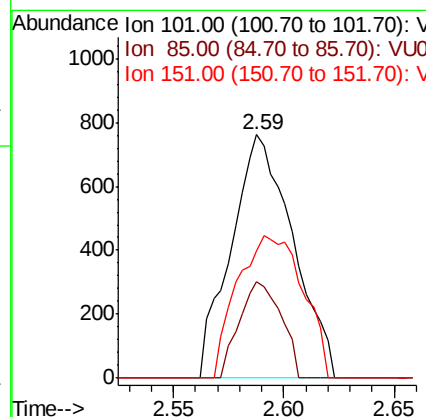
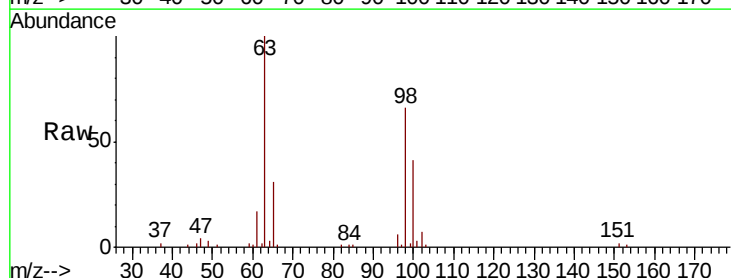
Instrument :
MSVOA_U
ClientSampleId :

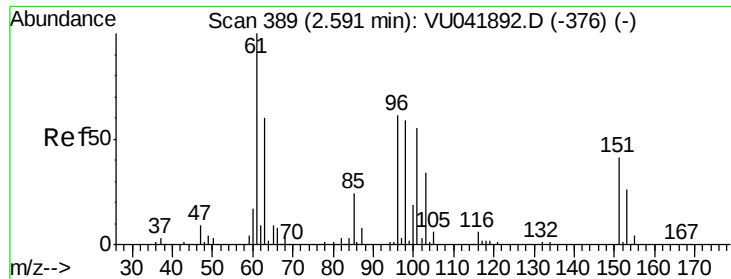
Tot Ion: 64 Resp: 467
Ion Ratio Lower Upper
64 100
66 0.0 21.6 40.0#



#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.159 ug/L
RT: 2.59 min Scan# 388
Delta R.T. -0.00 min
Lab File: VU041903.D
Acq: 08 Jan 2021 14:24

Tgt Ion: 101 Resp: 1479
Ion Ratio Lower Upper
101 100
85 27.0 33.6 50.4#
151 62.3 56.2 84.4

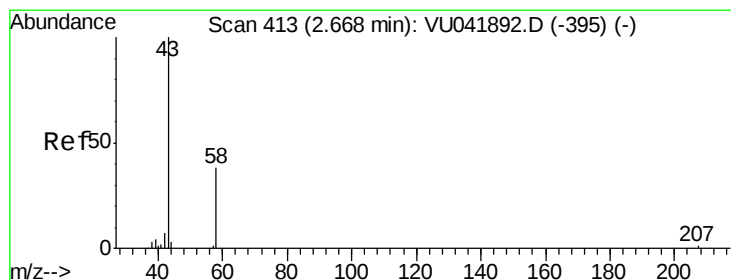
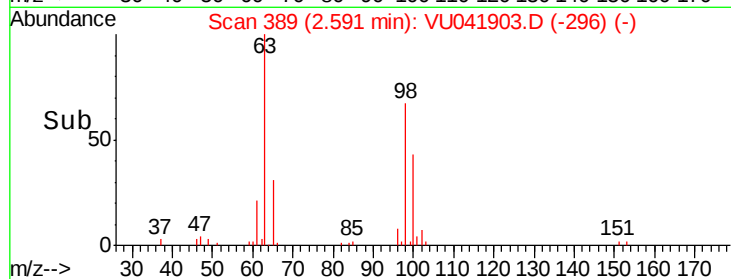
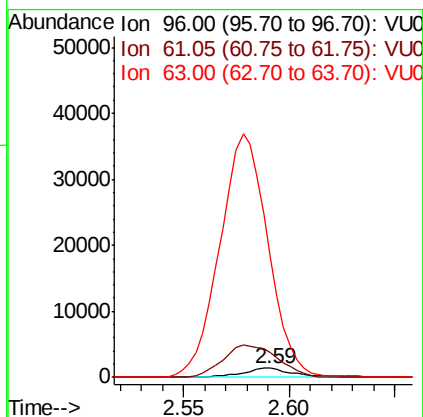
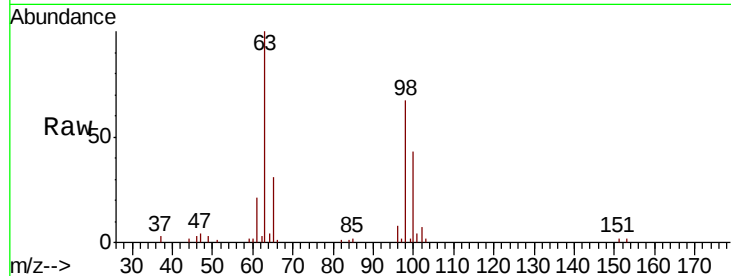




#12
 1,1-Dichloroethene
 Concen: 0.246 ug/L
 RT: 2.59 min Scan# 389
 Delta R.T. 0.00 min
 Lab File: VU041903.D
 Acq: 08 Jan 2021 14:24

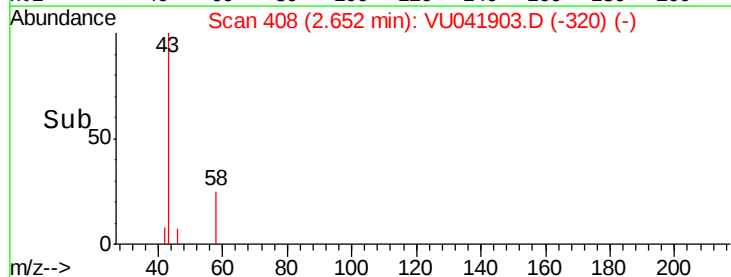
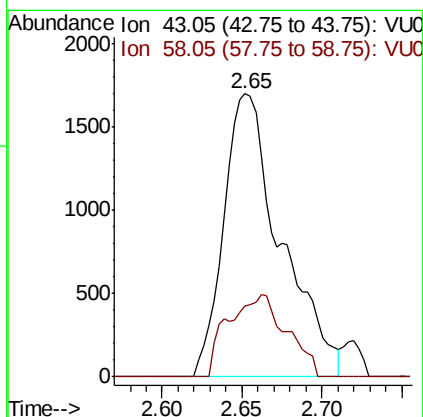
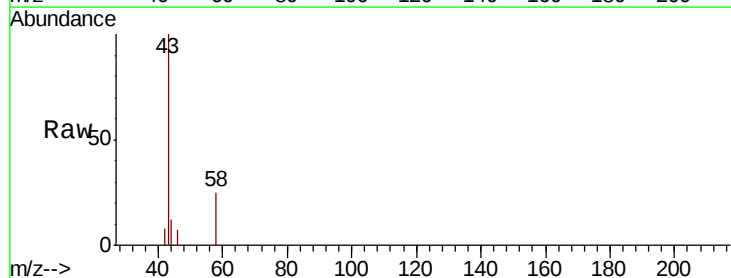
Instrument :
 MSVOA_U
 ClientSampleId :

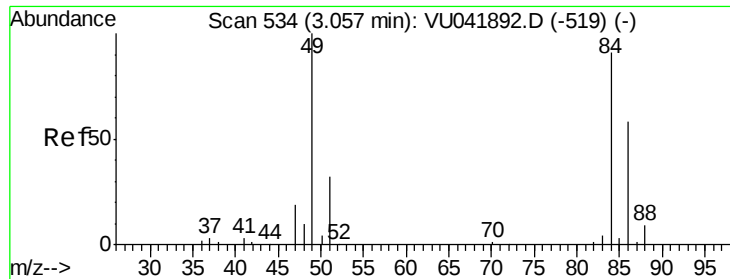
Tot Ion: 96 Resp: 2257
 Ion Ratio Lower Upper
 96 100
 61 269.4 123.8 230.0#
 63 1309.9 81.0 150.4#



#13
 Acetone
 Concen: 2.146 ug/L
 RT: 2.65 min Scan# 408
 Delta R.T. -0.02 min
 Lab File: VU041903.D
 Acq: 08 Jan 2021 14:24

Tgt Ion: 43 Resp: 4152
 Ion Ratio Lower Upper
 43 100
 58 29.6 0.0 73.2

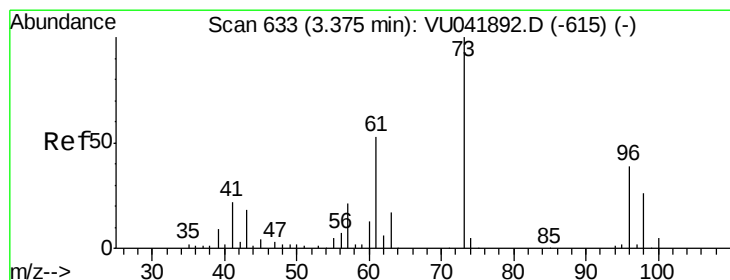
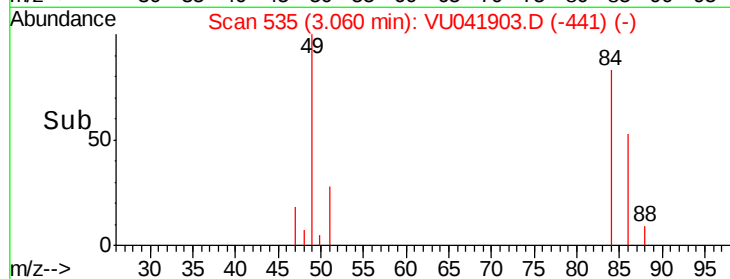
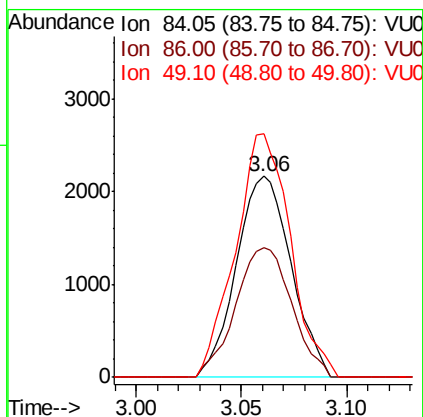
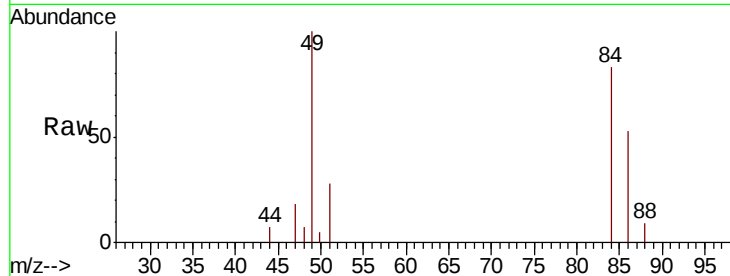




#16
Methylene chloride
Concen: 0.356 ug/L
RT: 3.06 min Scan# 535
Delta R.T. 0.00 min
Lab File: VU041903.D
Acq: 08 Jan 2021 14:24

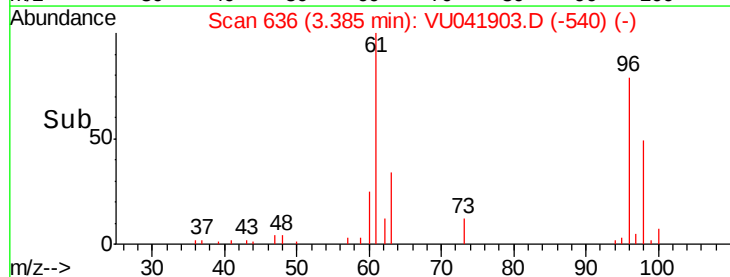
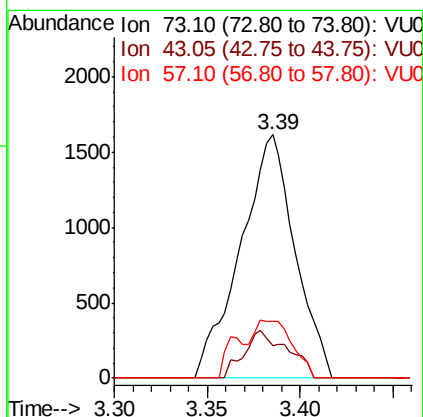
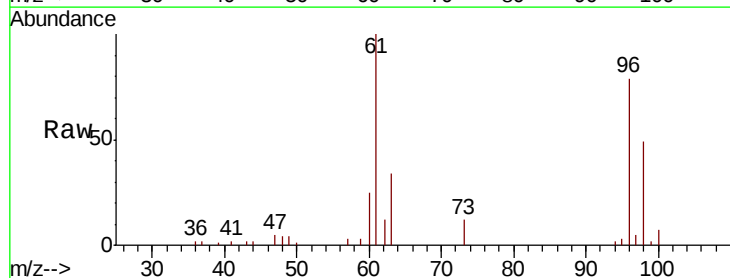
Instrument :
MSVOA_U
ClientSampleId :

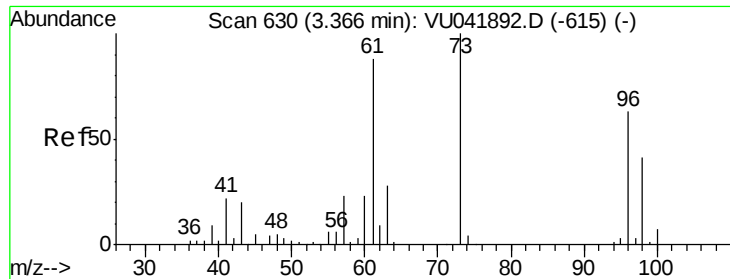
Tot Ion: 84 Resp: 3910
Ion Ratio Lower Upper
84 100
86 64.2 45.1 83.7
49 121.0 83.1 154.3



#17
Methyl tert-butyl Ether
Concen: 0.135 ug/L
RT: 3.39 min Scan# 636
Delta R.T. 0.01 min
Lab File: VU041903.D
Acq: 08 Jan 2021 14:24

Tgt Ion: 73 Resp: 3305
Ion Ratio Lower Upper
73 100
43 15.7 14.7 22.1
57 17.8 18.2 27.4#





#18

trans-1,2-Dichloroethene

Concen: 4.619 ug/L

RT: 3.37 min Scan# 631

Delta R.T. 0.00 min

Lab File: VU041903.D

Acq: 08 Jan 2021 14:24

Instrument :
MSVOA_U
ClientSampleId :

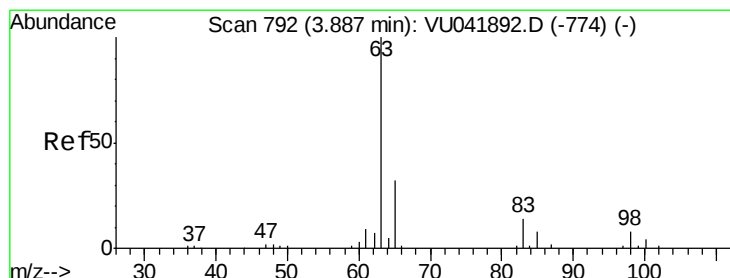
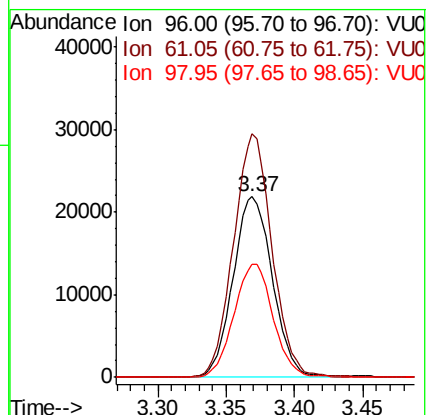
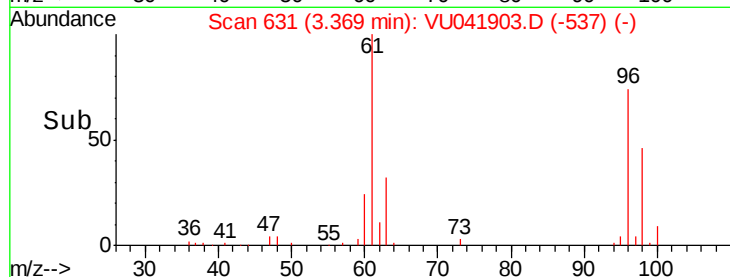
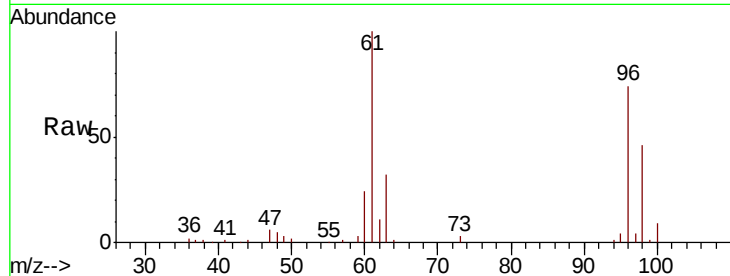
Tot Ion: 96 Resp: 43893

Ion Ratio Lower Upper

96 100

61 134.8 101.8 189.0

98 62.5 44.4 82.5



#19

1,1-Dichloroethane

Concen: 0.102 ug/L

RT: 3.89 min Scan# 792

Delta R.T. 0.00 min

Lab File: VU041903.D

Acq: 08 Jan 2021 14:24

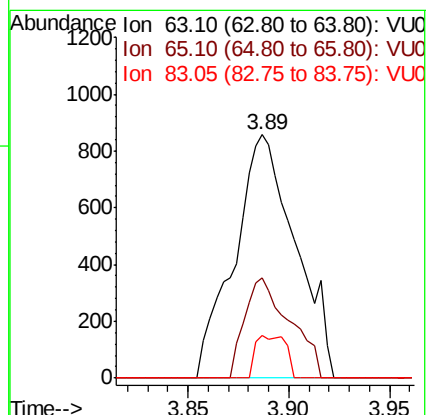
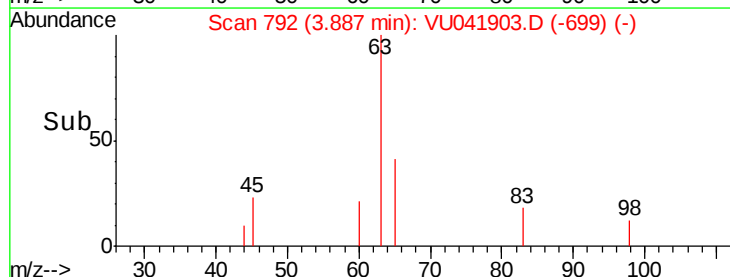
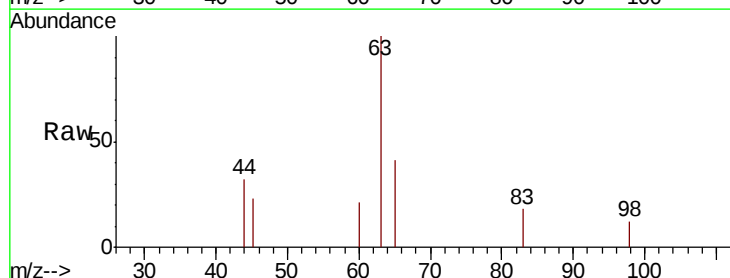
Tgt Ion: 63 Resp: 1811

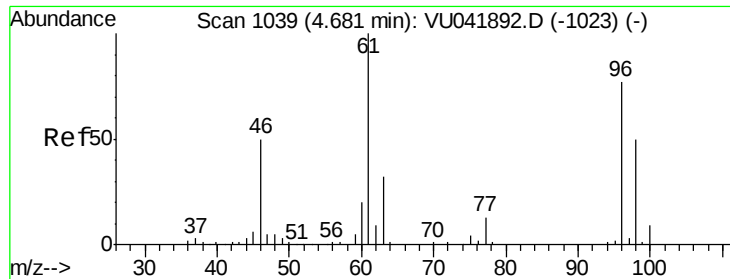
Ion Ratio Lower Upper

63 100

65 41.3 21.3 39.6#

83 17.6 9.3 17.3#

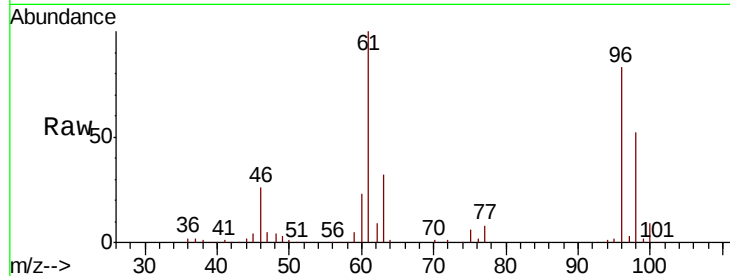




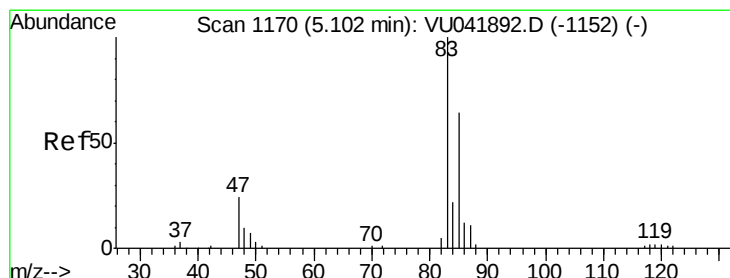
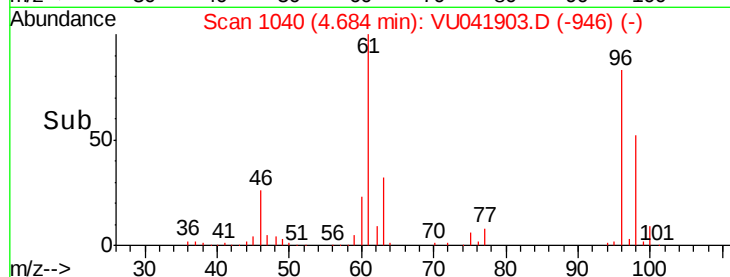
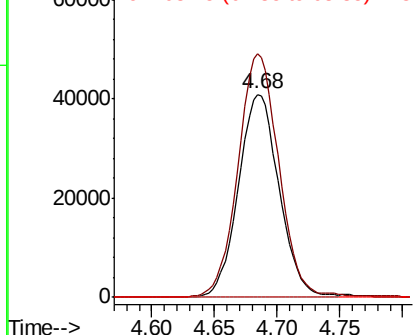
#22
 cis-1,2-Dichloroethene
 Concen: 8.797 ug/L
 RT: 4.68 min Scan# 1040
 Delta R.T. 0.00 min
 Lab File: VU041903.D
 Acq: 08 Jan 2021 14:24

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 96 Resp: 92389
 Ion Ratio Lower Upper
 96 100
 61 119.9 88.8 165.0
 68 0.0 0.0 0.0

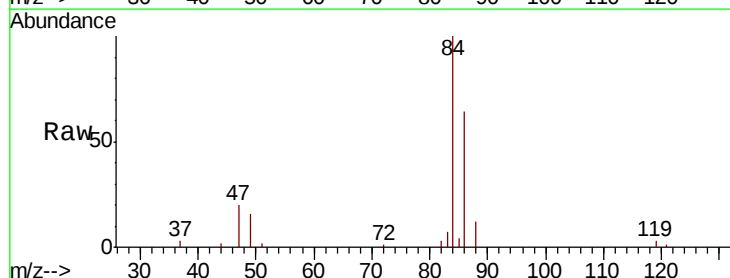


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0

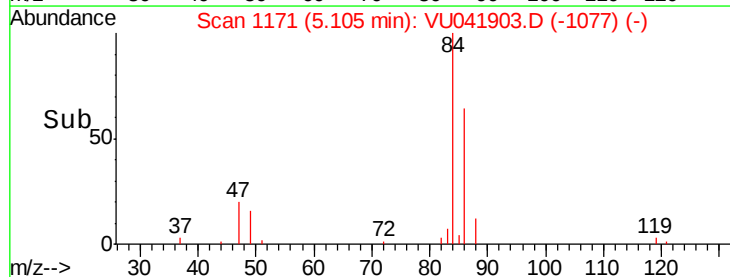
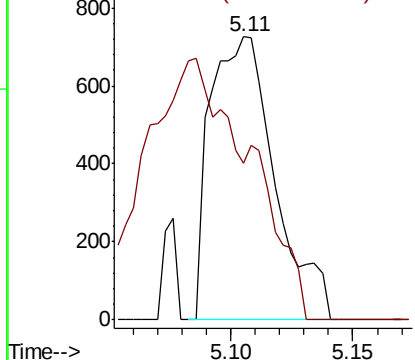


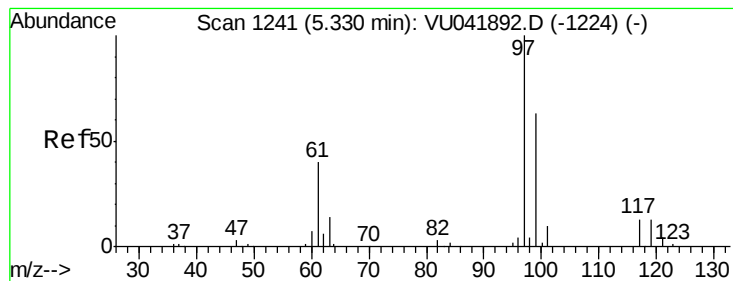
#25
 Chloroform
 Concen: 0.075 ug/L
 RT: 5.11 min Scan# 1171
 Delta R.T. 0.00 min
 Lab File: VU041903.D
 Acq: 08 Jan 2021 14:24

Tgt Ion: 83 Resp: 1340
 Ion Ratio Lower Upper
 83 100
 85 55.5 44.2 82.0



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





#29

1,1,1-Trichloroethane

Concen: 0.334 ug/L

RT: 5.34 min Scan# 1243

Delta R.T. 0.01 min

Lab File: VU041903.D

Acq: 08 Jan 2021 14:24

Instrument :

MSVOA_U

ClientSampled :

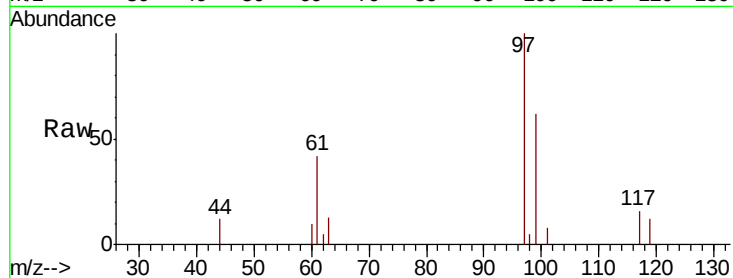
Tot Ion: 97 Resp: 4952

Ion Ratio Lower Upper

97 100

99 61.7 51.3 76.9

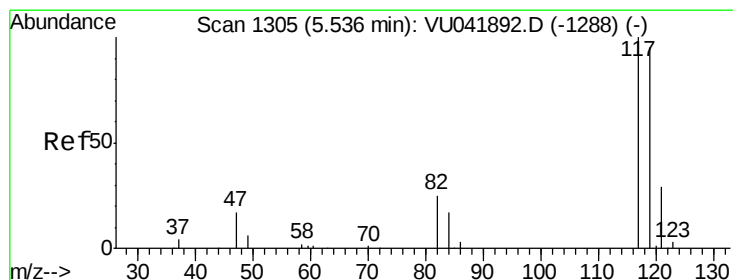
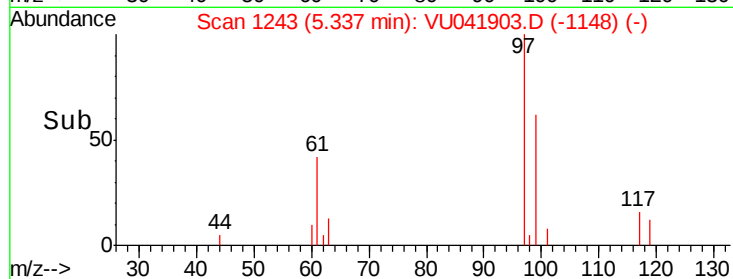
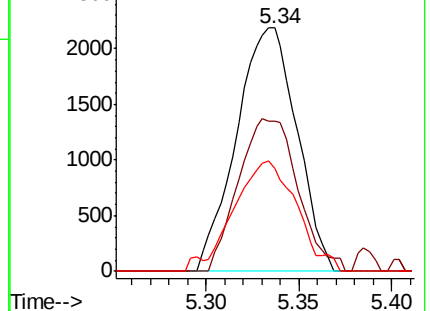
61 47.2 36.5 54.7



Abundance Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 61.05 (60.75 to 61.75): VU0



#31

Carbon tetrachloride

Concen: 0.046 ug/L

RT: 5.34 min Scan# 1243

Delta R.T. -0.20 min

Lab File: VU041903.D

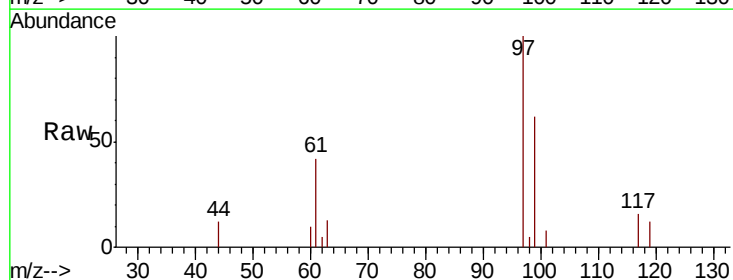
Acq: 08 Jan 2021 14:24

Tgt Ion: 117 Resp: 588

Ion Ratio Lower Upper

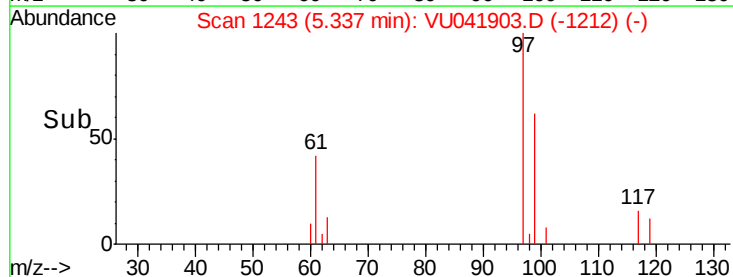
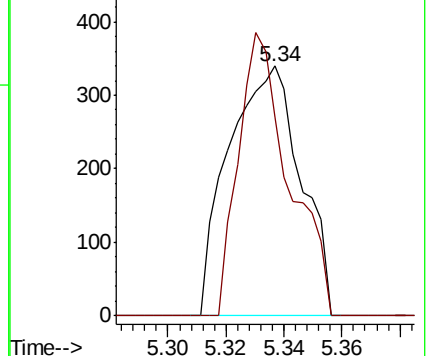
117 100

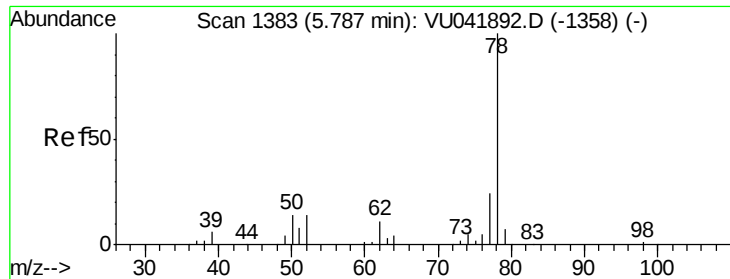
119 78.7 76.2 114.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

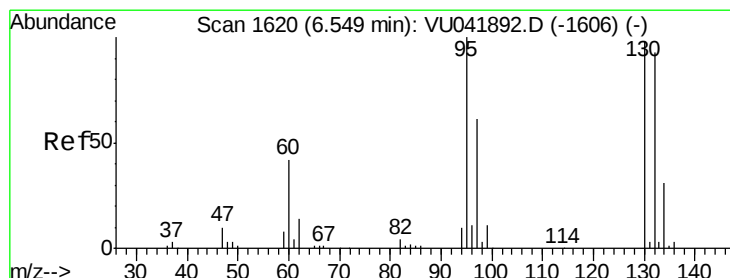
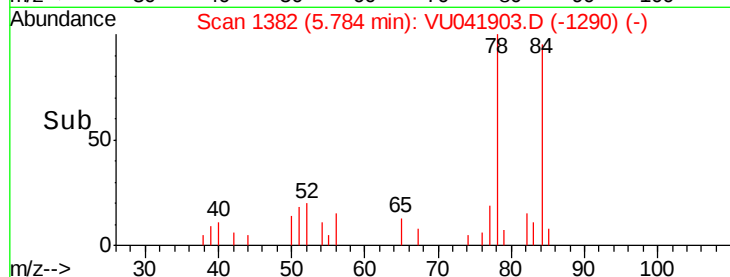
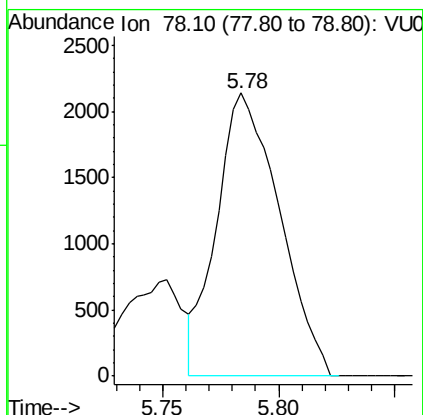
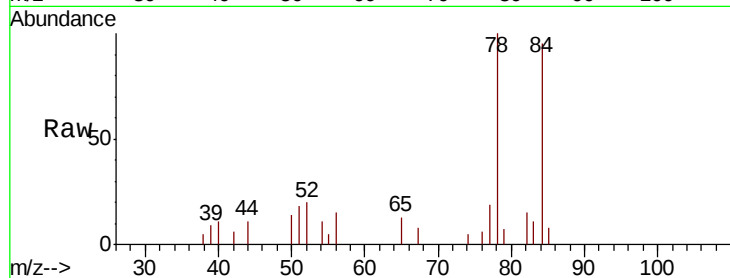




#33
Benzene
Concen: 0.098 ug/L
RT: 5.78 min Scan# 1382
Delta R.T. -0.00 min
Lab File: VU041903.D
Acq: 08 Jan 2021 14:24

Tgt Ion: 78 Resp: 4031

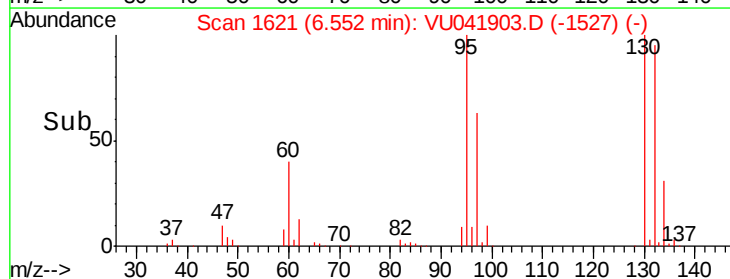
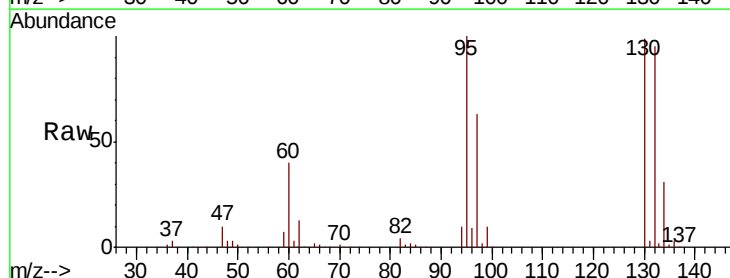
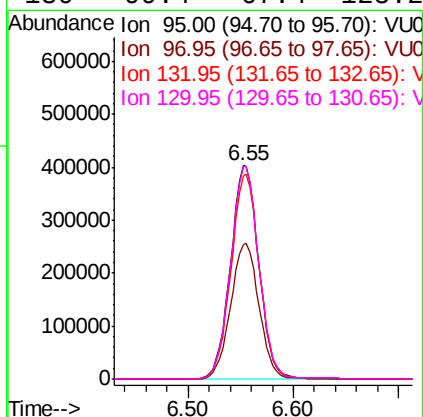
Instrument :
MSVOA_U
ClientSampleId :

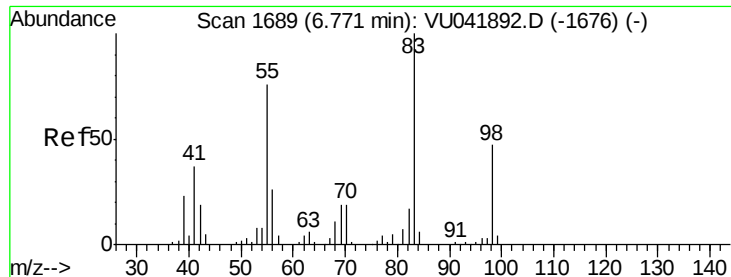


#34
Trichloroethene
Concen: 72.085 ug/L
RT: 6.55 min Scan# 1621
Delta R.T. 0.00 min
Lab File: VU041903.D
Acq: 08 Jan 2021 14:24

Tgt Ion: 95 Resp: 747760

Ion	Ratio	Lower	Upper
95	100		
97	62.9	43.9	81.5
132	95.1	63.1	117.3
130	99.4	67.4	125.2

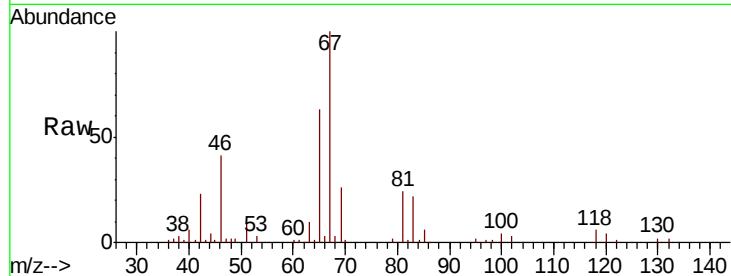




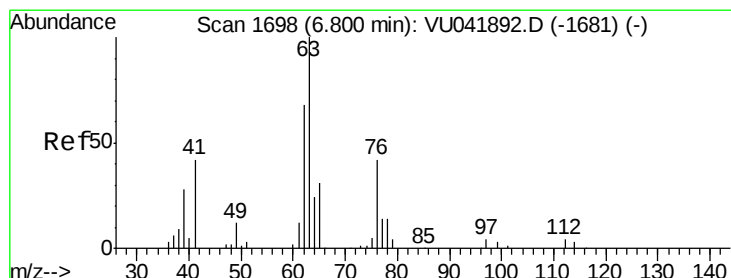
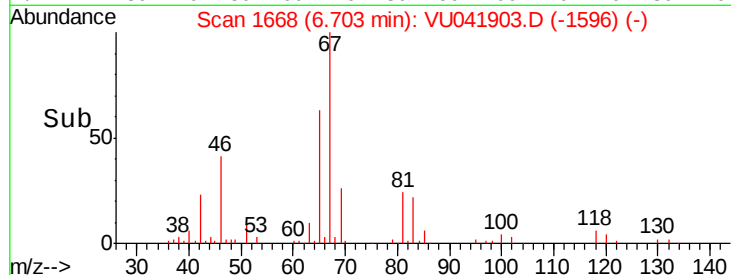
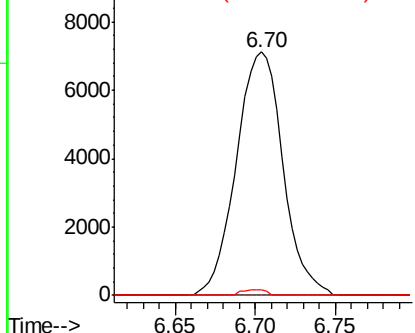
#35
Methvlcvclohexane
Concen: 0.845 ug/L
RT: 6.70 min Scan# 1668
Delta R.T. -0.07 min
Lab File: VU041903.D
Acq: 08 Jan 2021 14:24

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 83 Resp: 14174
Ion Ratio Lower Upper
83 100
55 0.0 61.2 91.8#
98 0.0 36.6 54.8#

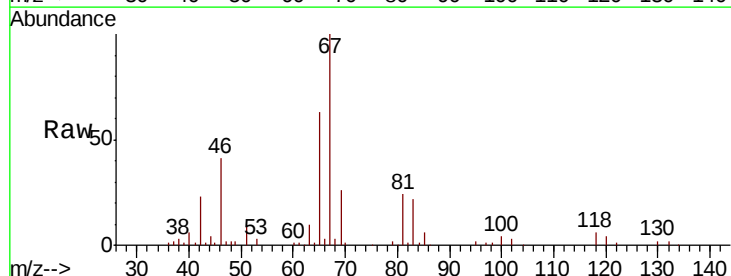


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

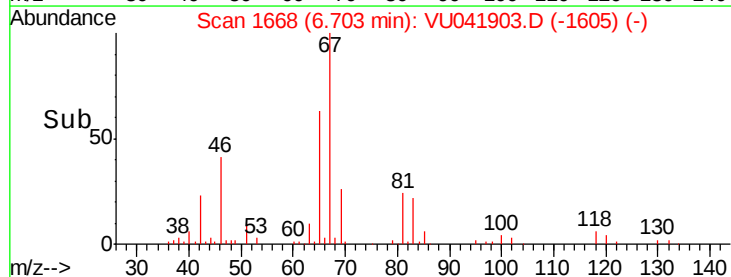
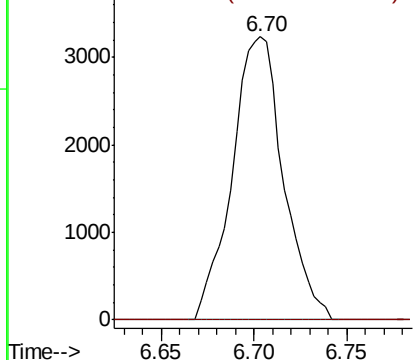


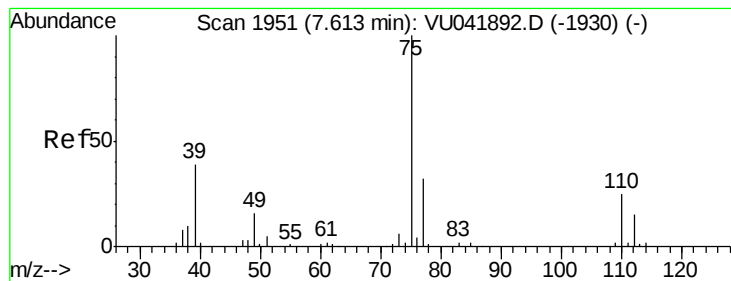
#37
1,2-Dichloropropane
Concen: 0.589 ug/L
RT: 6.70 min Scan# 1668
Delta R.T. -0.10 min
Lab File: VU041903.D
Acq: 08 Jan 2021 14:24

Tgt Ion: 63 Resp: 6218
Ion Ratio Lower Upper
63 100
112 0.0 3.1 4.7#



Abundance Ion 63.10 (62.80 to 63.80): VU0
Ion 112.10 (111.80 to 112.80): V



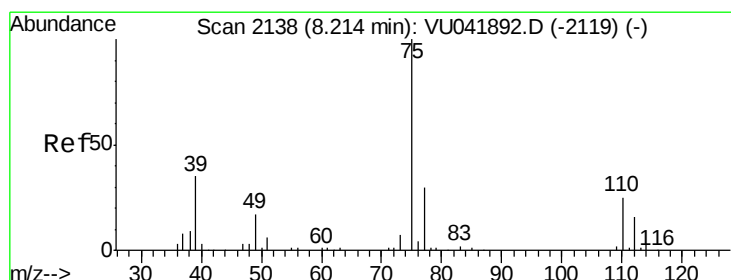
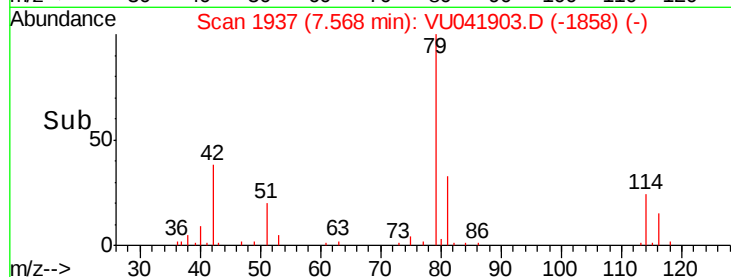
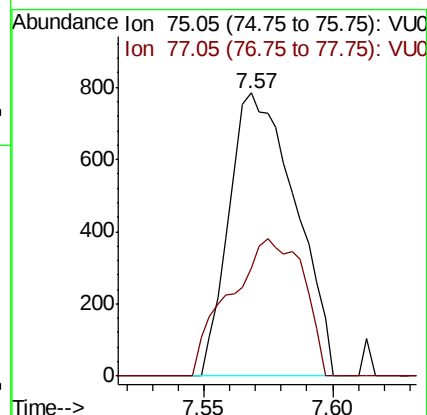
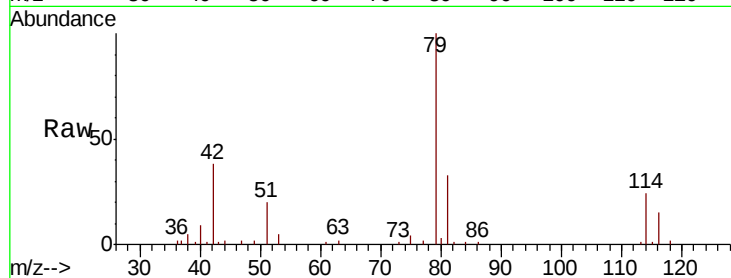


#39

cis-1,3-Dichloropropene
Concen: 0.090 ug/L
RT: 7.57 min Scan# 1937
Delta R.T. -0.04 min
Lab File: VU041903.D
Acq: 08 Jan 2021 14:24

Instrument :
MSVOA_U
ClientSampled :

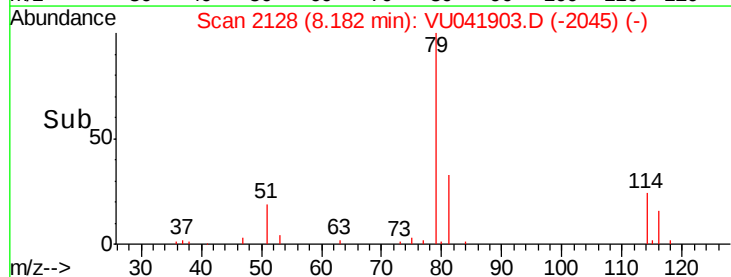
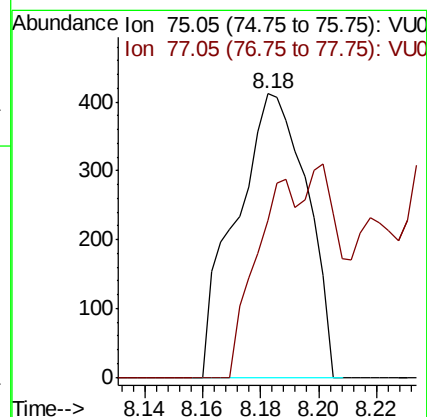
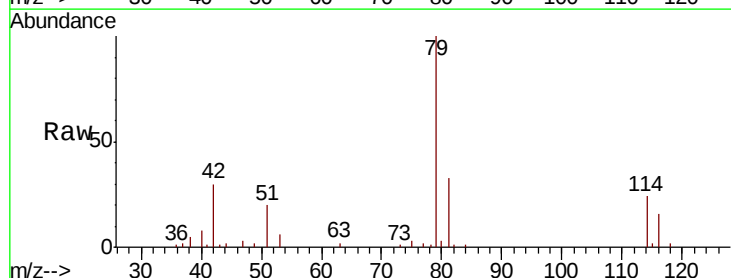
Tot Ion: 75 Resp: 1406
Ion Ratio Lower Upper
75 100
77 38.3 22.3 41.3

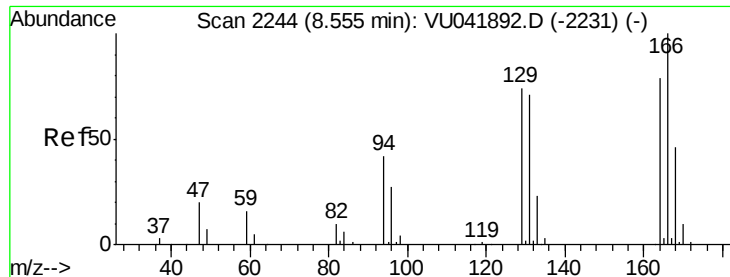


#44

trans-1,3-Dichloropropene
Concen: 0.050 ug/L
RT: 8.18 min Scan# 2128
Delta R.T. -0.03 min
Lab File: VU041903.D
Acq: 08 Jan 2021 14:24

Tgt Ion: 75 Resp: 699
Ion Ratio Lower Upper
75 100
77 55.3 23.8 44.2#





#47

Tetrachloroethene

Concen: 5.143 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. 0.00 min

Lab File: VU041903.D

Acq: 08 Jan 2021 14:24

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion:164 Resp: 37343

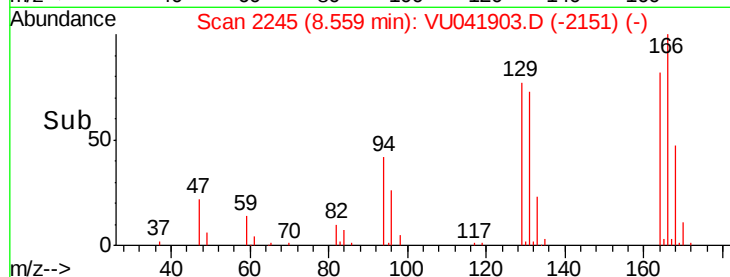
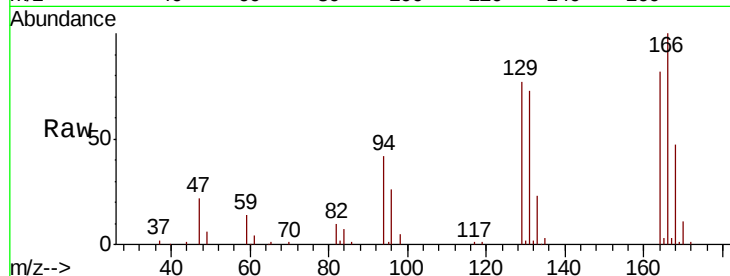
Ion Ratio Lower Upper

164 100

129 94.3 72.2 134.0

131 89.0 66.9 124.3

166 121.7 89.6 166.4

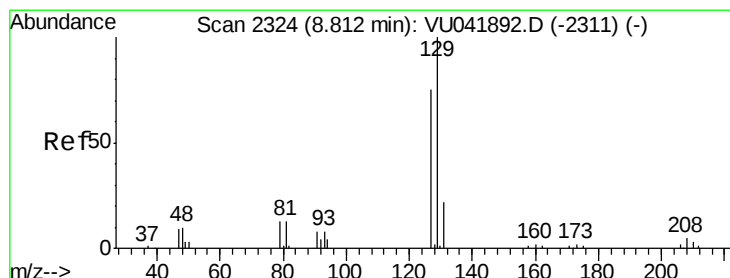
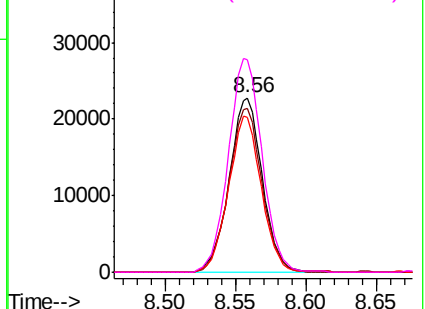


Abundance Ion 163.90 (163.60 to 164.60): V

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



#49

Dibromochloromethane

Concen: 3.920 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. -0.25 min

Lab File: VU041903.D

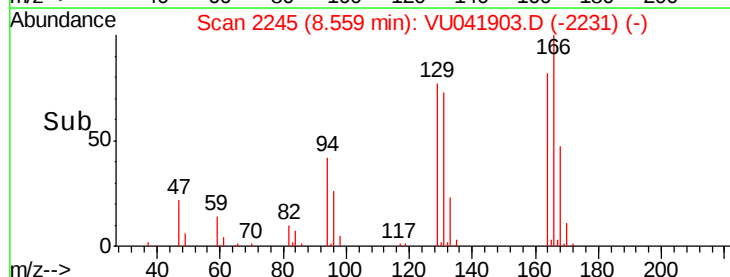
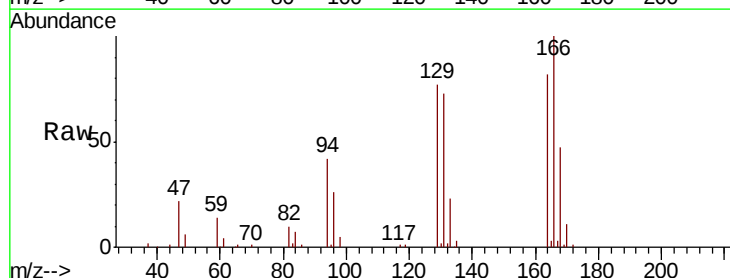
Acq: 08 Jan 2021 14:24

Tgt Ion:129 Resp: 35159

Ion Ratio Lower Upper

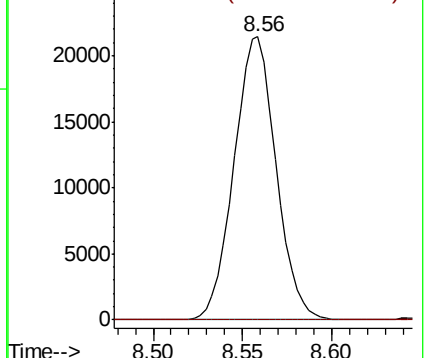
129 100

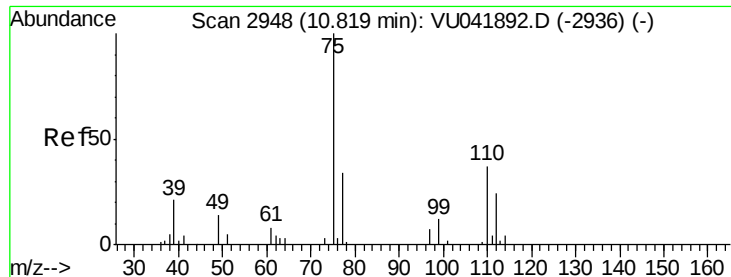
127 0.0 54.7 101.7#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

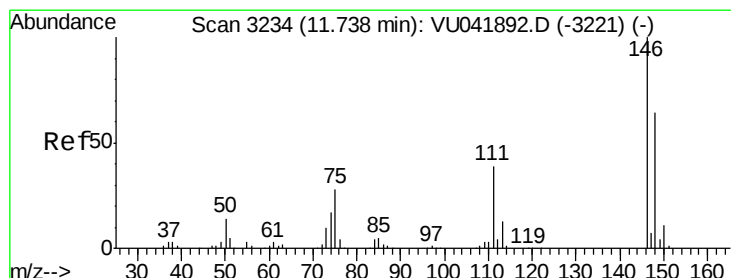
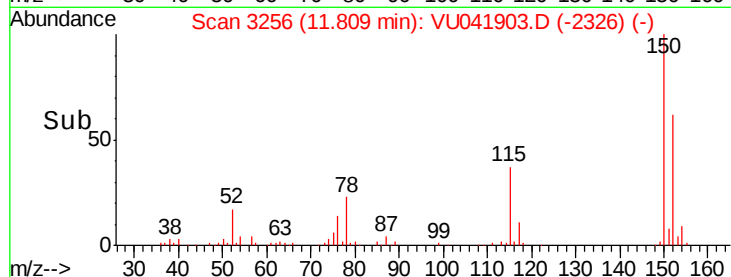
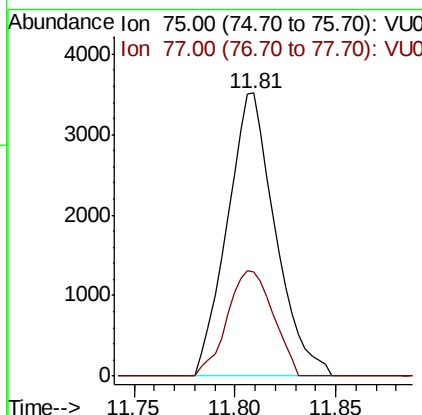
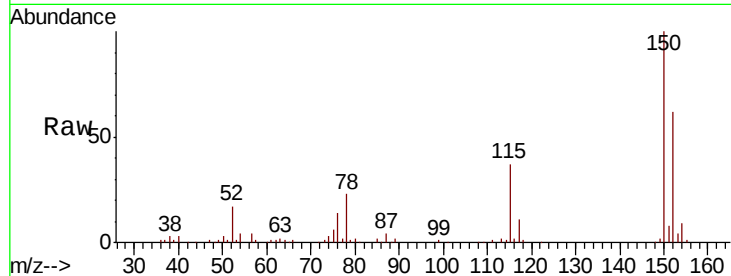




#59
 1,2,3-Trichloropropane
 Concen: 0.737 ug/L
 RT: 11.81 min Scan# 3256
 Delta R.T. 0.99 min
 Lab File: VU041903.D
 Acq: 08 Jan 2021 14:24

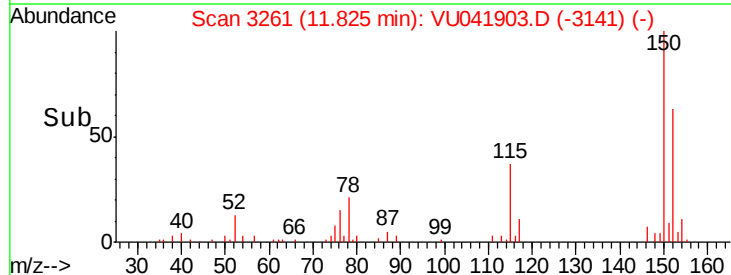
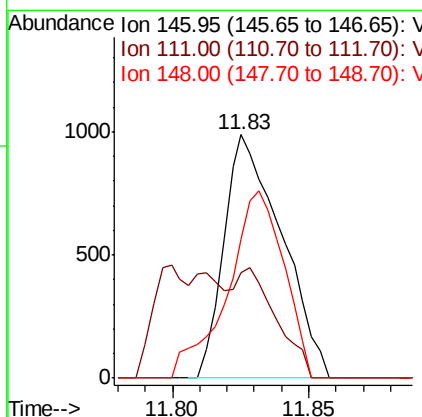
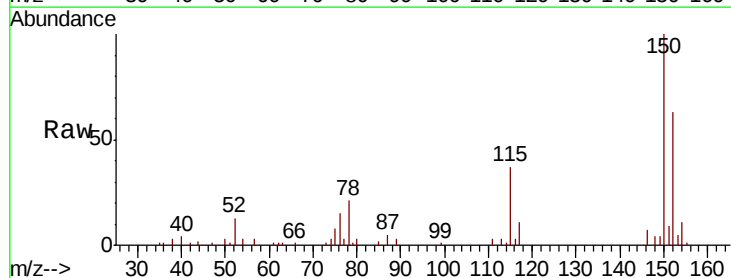
Instrument :
 MSVOA_U
 ClientSampleId :

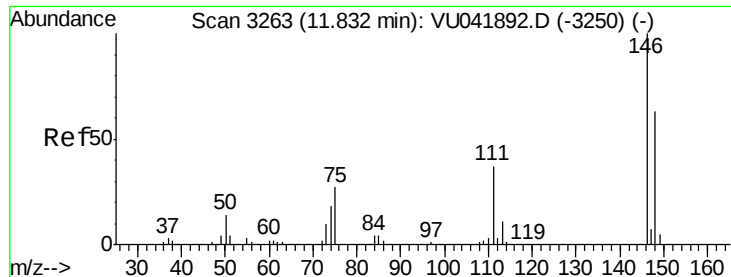
Tot Ion: 75 Resp: 5843
 Ion Ratio Lower Upper
 75 100
 77 35.7 26.2 39.2



#62
 1,3-Dichlorobenzene
 Concen: 0.085 ug/L
 RT: 11.83 min Scan# 3261
 Delta R.T. 0.09 min
 Lab File: VU041903.D
 Acq: 08 Jan 2021 14:24

Tgt Ion: 146 Resp: 1446
 Ion Ratio Lower Upper
 146 100
 111 43.1 30.0 55.8
 148 57.1 44.9 83.3





#63

1,4-Dichlorobenzene

Concen: 0.085 ug/L

RT: 11.83 min Scan# 3261

Delta R.T. -0.01 min

Lab File: VU041903.D

Acq: 08 Jan 2021 14:24

Instrument :

MSVOA_U

ClientSampled :

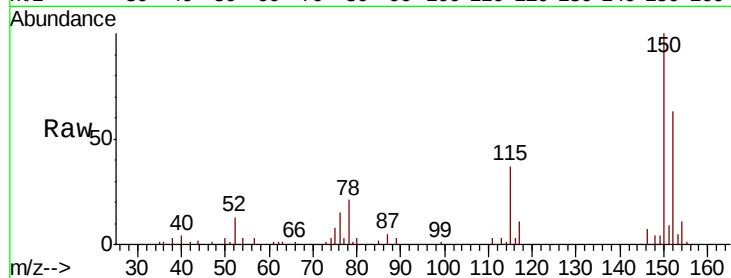
Tot Ion:146 Resp: 1446

Ion Ratio Lower Upper

146 100

111 43.1 27.9 51.9

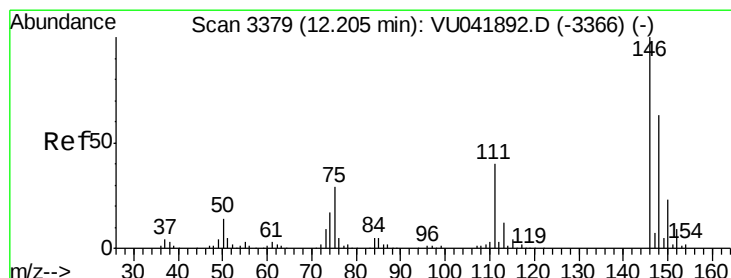
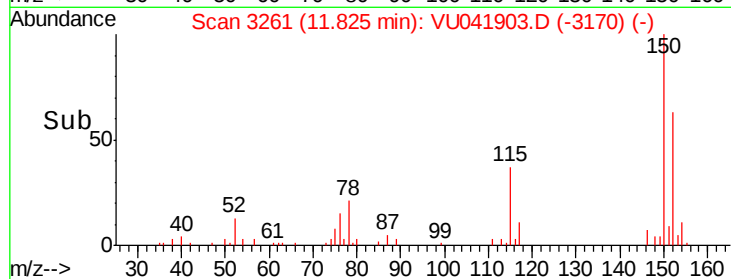
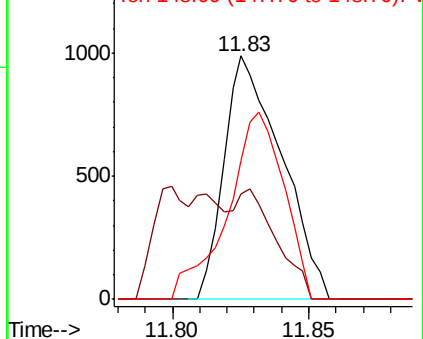
148 57.1 45.0 83.6



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#65

1,2-Dichlorobenzene

Concen: 0.091 ug/L

RT: 12.21 min Scan# 3380

Delta R.T. 0.00 min

Lab File: VU041903.D

Acq: 08 Jan 2021 14:24

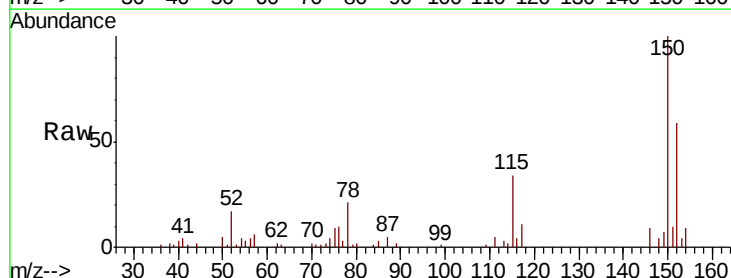
Tgt Ion:146 Resp: 1511

Ion Ratio Lower Upper

146 100

111 52.4 35.0 52.6

148 49.2 51.0 76.6#



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

