

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU010921\
 Data File : VU041895.D
 Acq On : 08 Jan 2021 11:14
 Operator : SY/MD
 Sample : M1027-02
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jan 09 01:33:12 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	141742	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	136767	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	57461	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	38385	3.46	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	69.20%
7) Chloroethane-d5	1.92	69	42632	4.97	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	99.40%
11) 1,1-Dichloroethene-d2	2.58	63	62599	3.07	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	61.40%
20) 2-Butanone-d5	4.65	46	169475	53.24	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	106.48%
24) Chloroform-d	5.08	84	99422	5.24	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	104.80%
26) 1,2-Dichloroethane-d4	5.72	65	56465	5.24	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	104.80%
32) Benzene-d6	5.74	84	187992	4.80	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.00%
36) 1,2-Dichloropropane-d6	6.70	67	63839	5.20	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	104.00%
41) Toluene-d8	7.90	98	149476	4.23	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	84.60%
43) trans-1,3-Dichloropropene-	8.18	79	22191	4.02	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	80.40%
46) 2-Hexanone-d5	8.64	63	144869	48.00	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	96.00%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	56889	5.10	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	102.00%
64) 1,2-Dichlorobenzene-d4	12.19	152	56530	5.53	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	110.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	1477	0.123 ug/L	89
3) Chloromethane	1.52	50	1326	0.114 ug/L	100
9) Trichlorofluoromethane	2.15	101	828967	50.842 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	17300	1.774 ug/L	96
12) 1,1-Dichloroethene	2.59	96	7063	0.735 ug/L #	1
13) Acetone	2.66	43	2966	1.465 ug/L	75
16) Methylene chloride	3.06	84	3351	0.292 ug/L	95
17) Methyl tert-butyl Ether	3.38	73	35308	1.376 ug/L	99
18) trans-1,2-Dichloroethene	3.37	96	1490	0.150 ug/L	94
19) 1,1-Dichloroethane	3.89	63	39827	2.143 ug/L	98
22) cis-1,2-Dichloroethene	4.68	96	101776	9.259 ug/L	95
25) Chloroform	5.11	83	17035	0.910 ug/L	90
27) 1,2-Dichloroethane	5.81	62	1226	0.097 ug/L #	73
29) 1,1,1-Trichloroethane	5.33	97	5034	0.321 ug/L	99
31) Carbon tetrachloride	5.54	117	4233	0.312 ug/L	91
33) Benzene	5.79	78	1256	0.029 ug/L	100
34) Trichloroethene	6.55	95	1150639	104.687 ug/L	96

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Quant Time: Jan 09 01:33:12 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

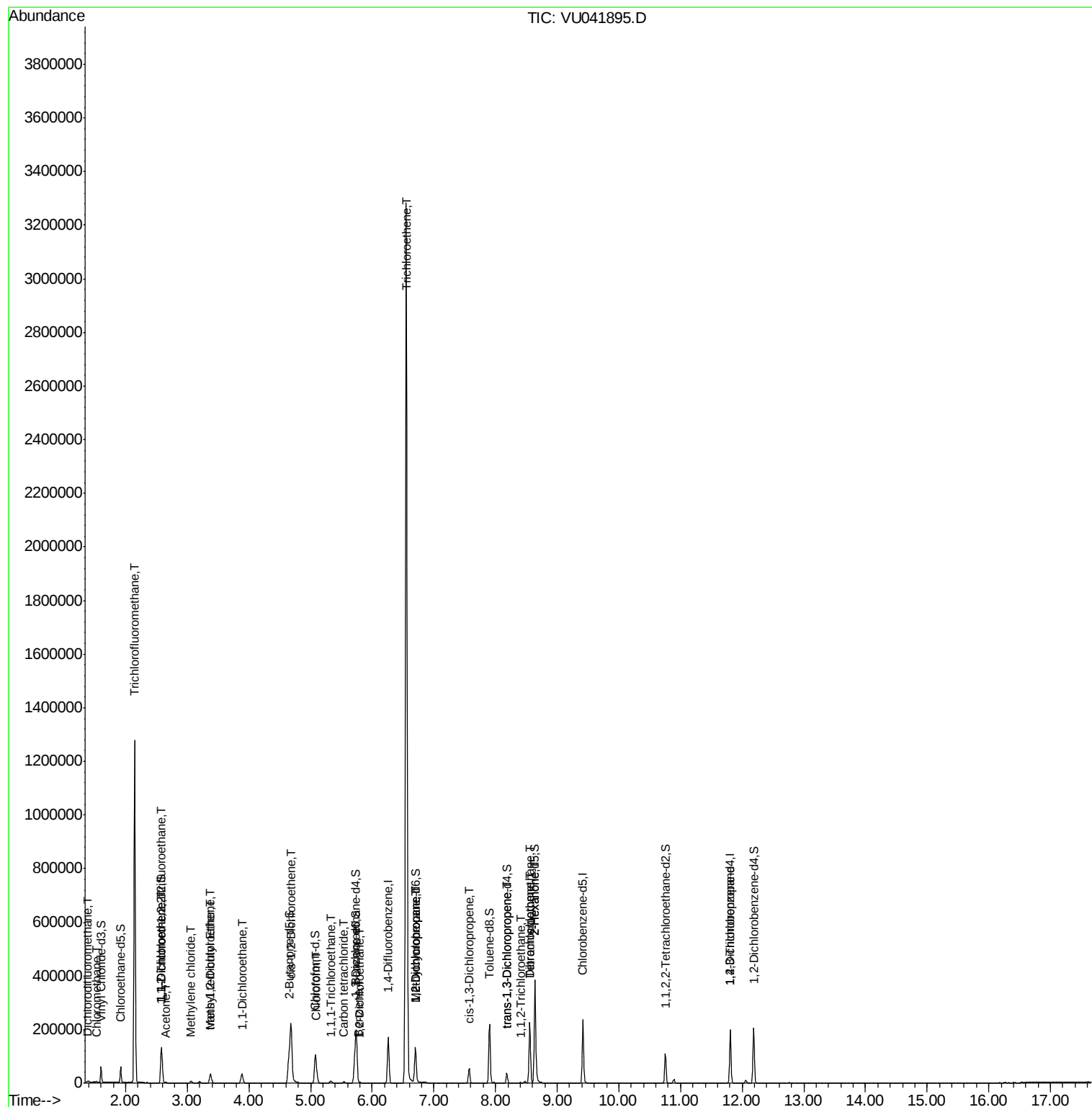
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) Methylcyclohexane	6.70	83	15252	0.858	ug/L #	19
37) 1,2-Dichloropropane	6.70	63	6655	0.595	ug/L #	88
39) cis-1,3-Dichloropropene	7.57	75	1346	0.081	ug/L #	64
44) trans-1,3-Dichloropropene	8.18	75	1004	0.068	ug/L	92
45) 1,1,2-Trichloroethane	8.41	97	867	0.105	ug/L #	89
47) Tetrachloroethene	8.56	164	51074	6.638	ug/L	96
48) 2-Hexanone	8.64	43	15450	2.667	ug/L #	72
49) Dibromochloromethane	8.56	129	50577	5.322	ug/L #	10
59) 1,2,3-Trichloropropane	11.81	75	6188	0.736	ug/L	92

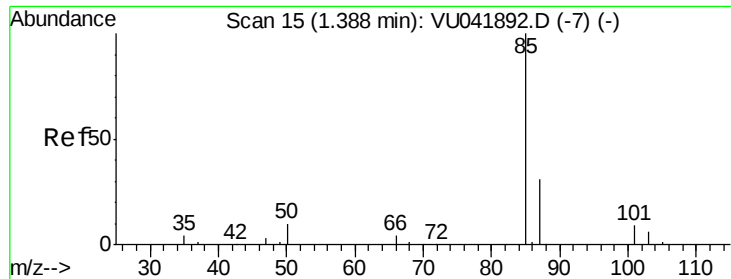
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 0.123 ug/L

RT: 1.39 min Scan# 14

Delta R.T. -0.00 min

Lab File: VU041895.D

Acq: 08 Jan 2021 11:14

Instrument :

MSVOA_U

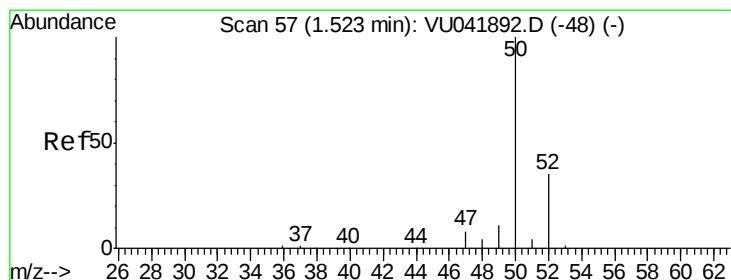
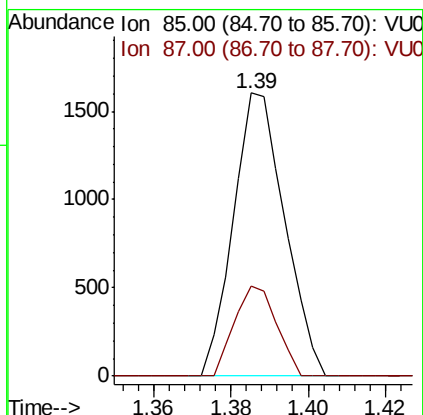
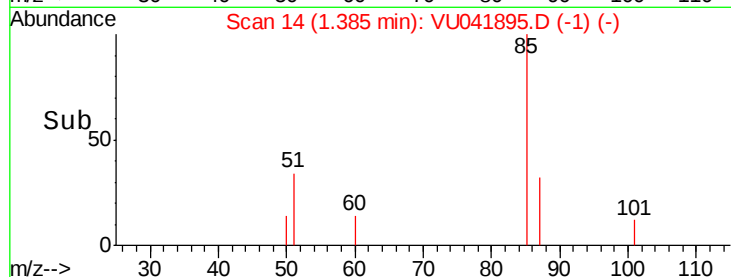
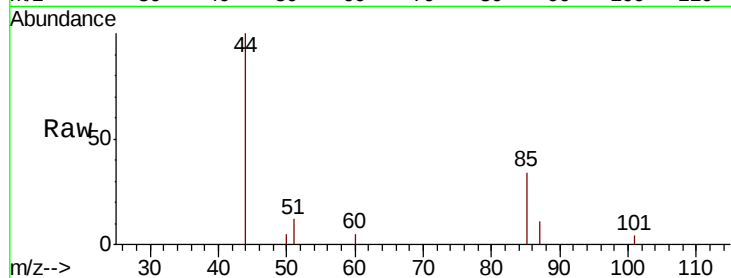
ClientSampleId :

Tot Ion: 85 Resp: 1477

Ion Ratio Lower Upper

85 100

87 26.1 25.8 38.6



#3

Chloromethane

Concen: 0.114 ug/L

RT: 1.52 min Scan# 57

Delta R.T. 0.00 min

Lab File: VU041895.D

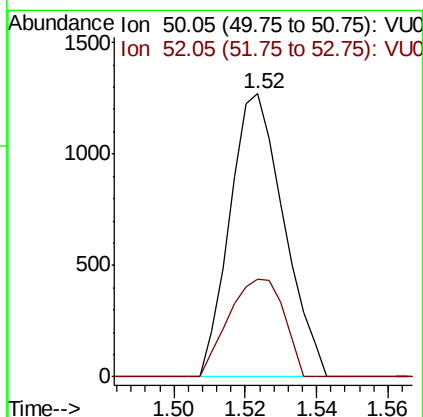
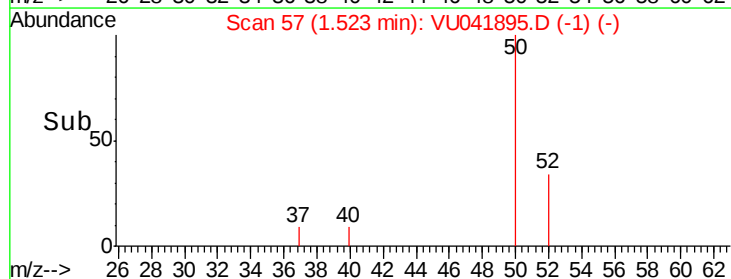
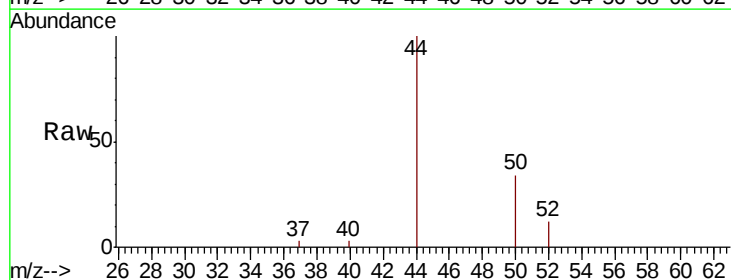
Acq: 08 Jan 2021 11:14

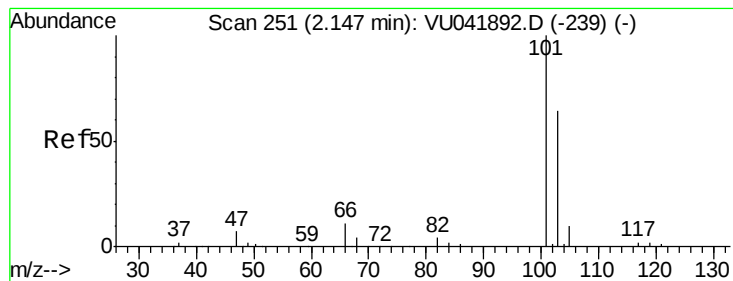
Tgt Ion: 50 Resp: 1326

Ion Ratio Lower Upper

50 100

52 34.4 24.1 44.8



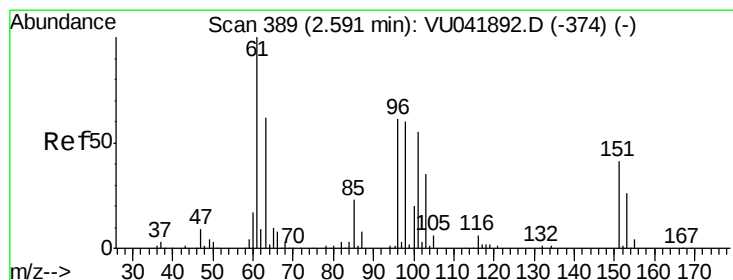
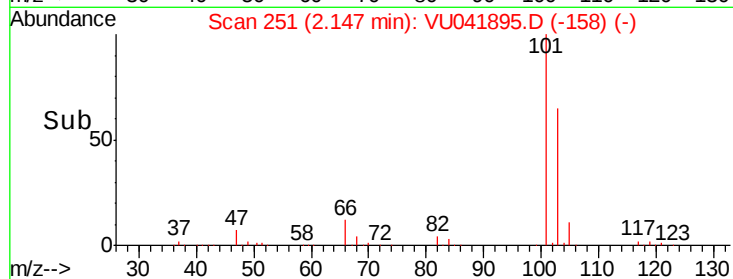
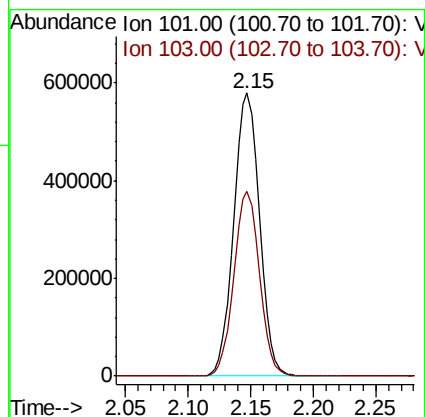
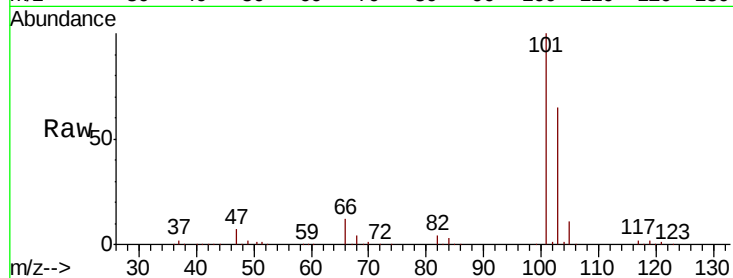


#9

Trichlorofluoromethane
 Concen: 50.842 ug/L
 RT: 2.15 min Scan# 251
 Delta R.T. 0.00 min
 Lab File: VU041895.D
 Acq: 08 Jan 2021 11:14

Instrument :
 MSVOA_U
 ClientSampleId :

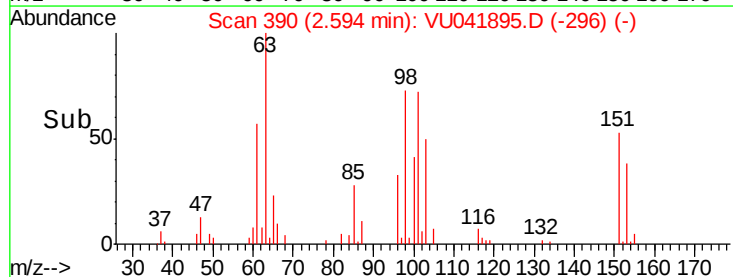
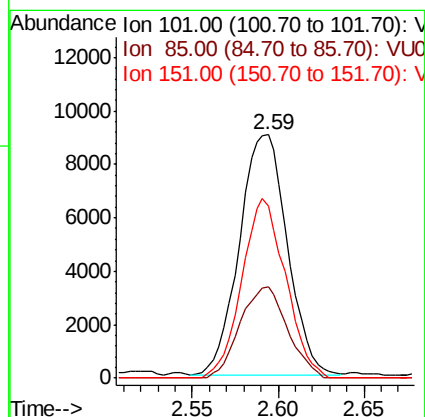
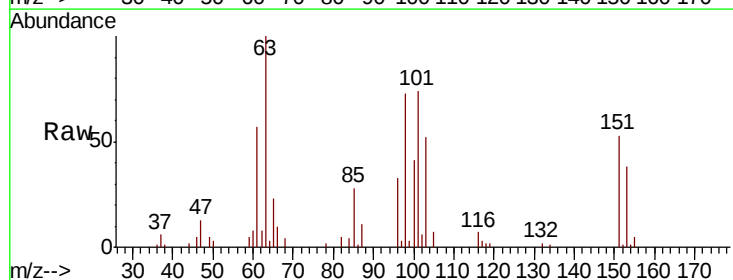
Tot Ion:101 Resp: 828967
 Ion Ratio Lower Upper
 101 100
 103 64.9 51.1 76.7

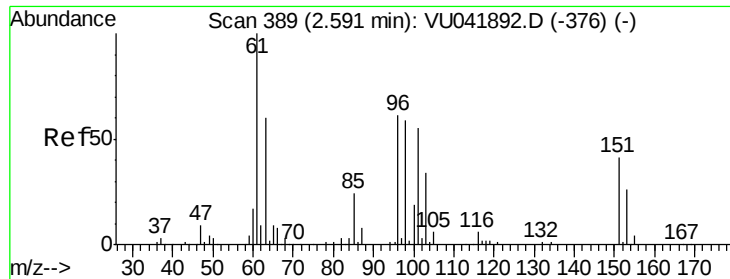


#10

1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 1.774 ug/L
 RT: 2.59 min Scan# 390
 Delta R.T. 0.00 min
 Lab File: VU041895.D
 Acq: 08 Jan 2021 11:14

Tgt Ion:101 Resp: 17300
 Ion Ratio Lower Upper
 101 100
 85 37.7 33.6 50.4
 151 68.4 56.2 84.4

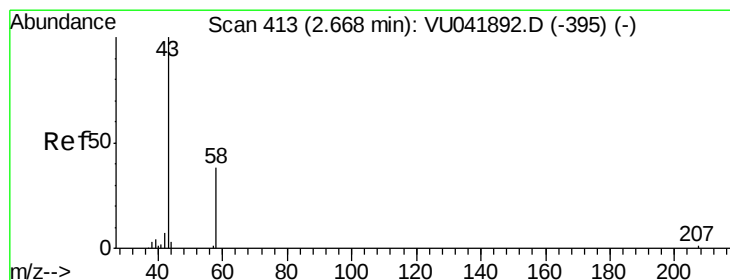
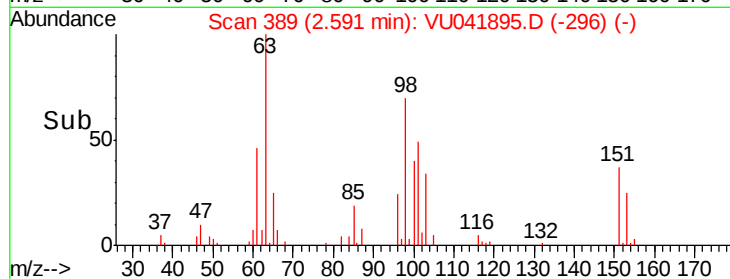
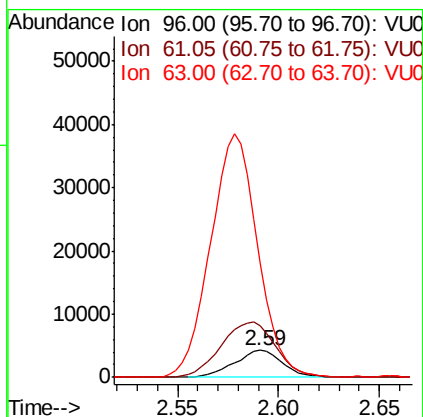
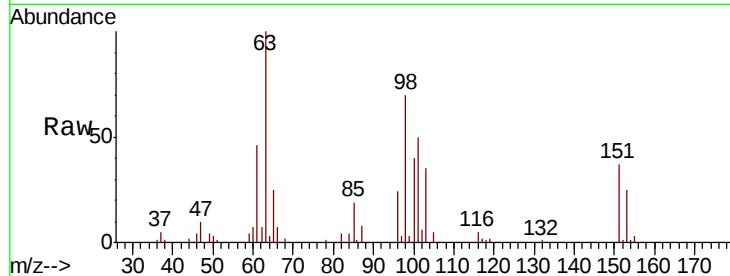




#12
 1,1-Dichloroethene
 Concen: 0.735 ug/L
 RT: 2.59 min Scan# 389
 Delta R.T. 0.00 min
 Lab File: VU041895.D
 Acq: 08 Jan 2021 11:14

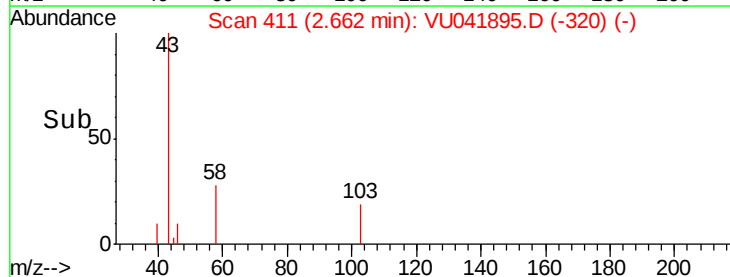
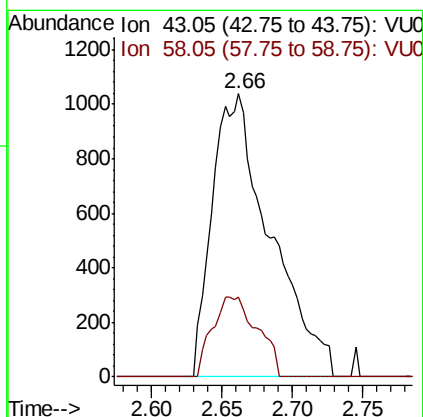
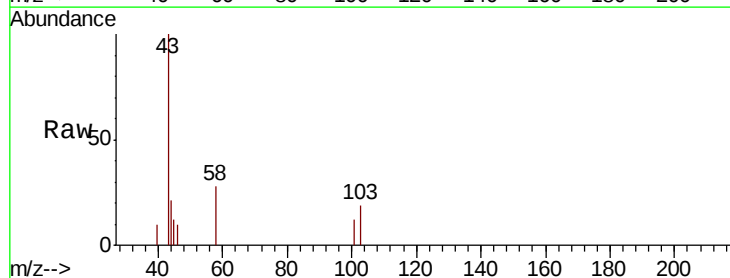
Instrument :
 MSVOA_U
 ClientSampled :

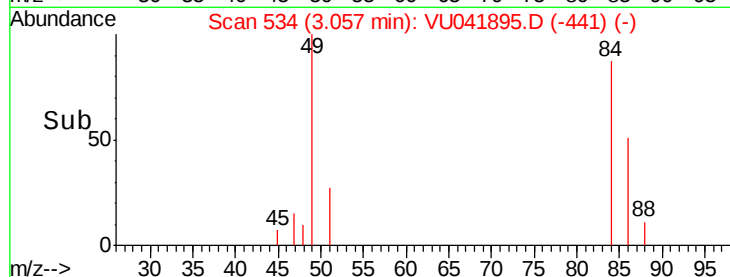
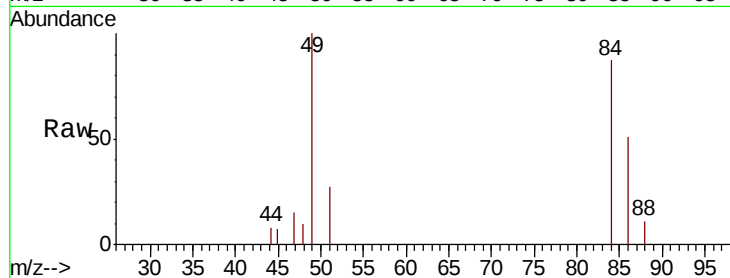
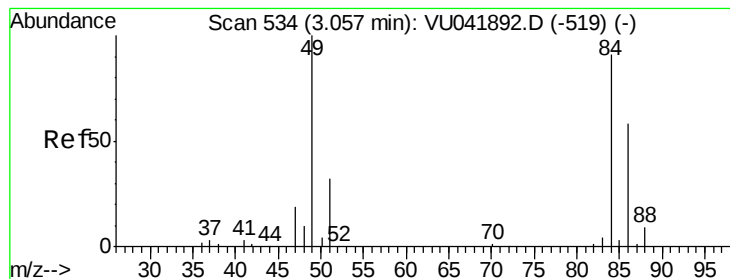
Tot Ion	Ratio	Lower	Upper
96	100		
61	192.0	123.8	230.0
63	419.8	81.0	150.4



#13
 Acetone
 Concen: 1.465 ug/L
 RT: 2.66 min Scan# 411
 Delta R.T. -0.01 min
 Lab File: VU041895.D
 Acq: 08 Jan 2021 11:14

Tgt Ion	Ratio	Lower	Upper
43	100		
58	22.0	0.0	73.2





#16

Methylene chloride

Concen: 0.292 ug/L

RT: 3.06 min Scan# 534

Delta R.T. 0.00 min

Lab File: VU041895.D

Acq: 08 Jan 2021 11:14

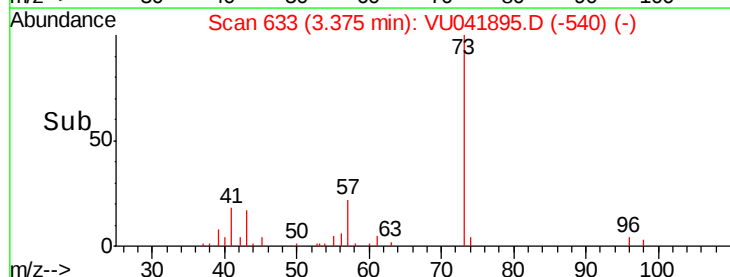
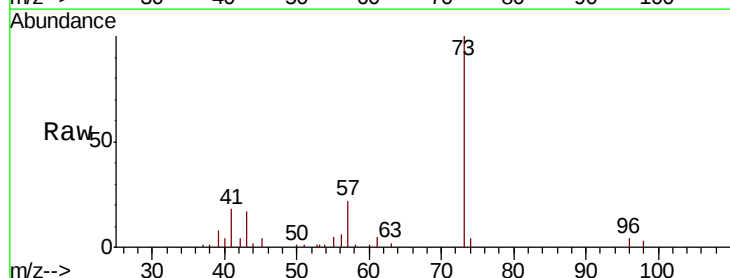
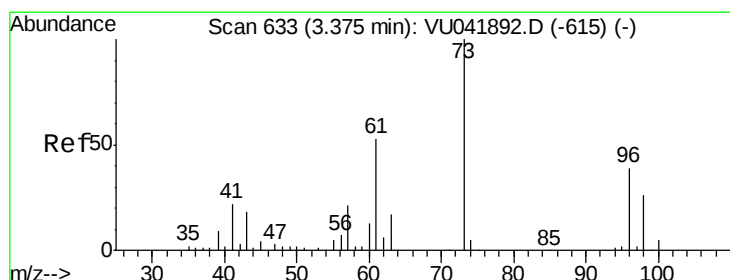
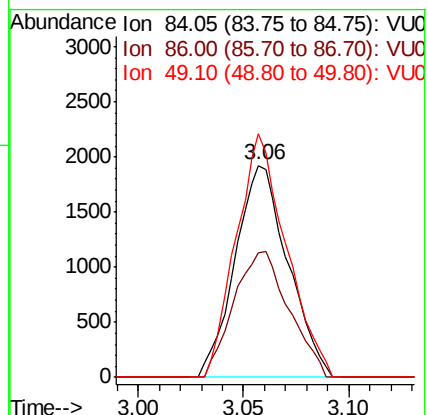
Tot Ion: 84 Resp: 3351

Ion Ratio Lower Upper

84 100

86 58.5 45.1 83.7

49 114.8 83.1 154.3



#17

Methyl tert-butyl Ether

Concen: 1.376 ug/L

RT: 3.38 min Scan# 633

Delta R.T. 0.00 min

Lab File: VU041895.D

Acq: 08 Jan 2021 11:14

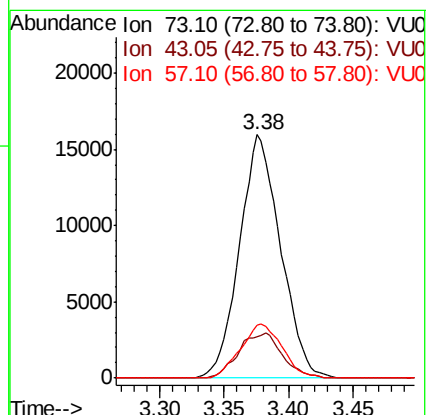
Tgt Ion: 73 Resp: 35308

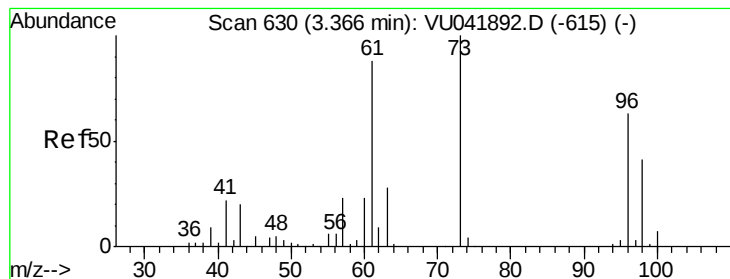
Ion Ratio Lower Upper

73 100

43 19.6 14.7 22.1

57 22.6 18.2 27.4





#18

trans-1,2-Dichloroethene

Concen: 0.150 ug/L

RT: 3.37 min Scan# 630

Delta R.T. 0.00 min

Lab File: VU041895.D

Acq: 08 Jan 2021 11:14

Instrument :

MSVOA_U

ClientSampleId :

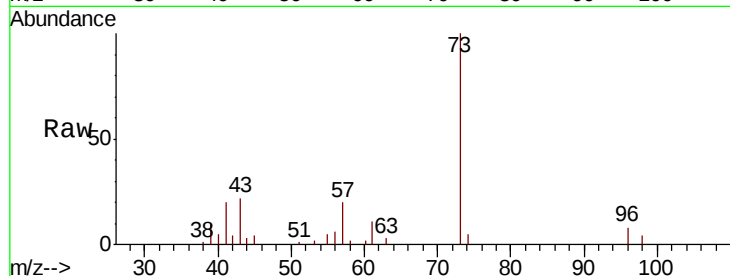
Tot Ion: 96 Resp: 1490

Ion Ratio Lower Upper

96 100

61 150.5 101.8 189.0

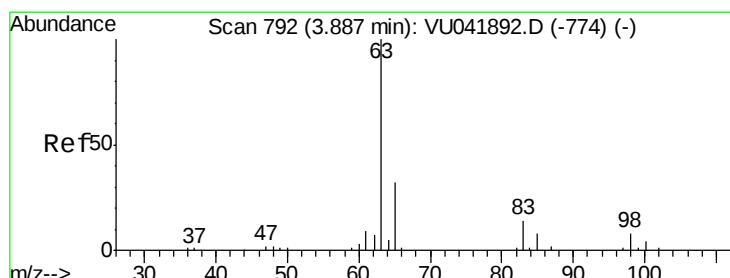
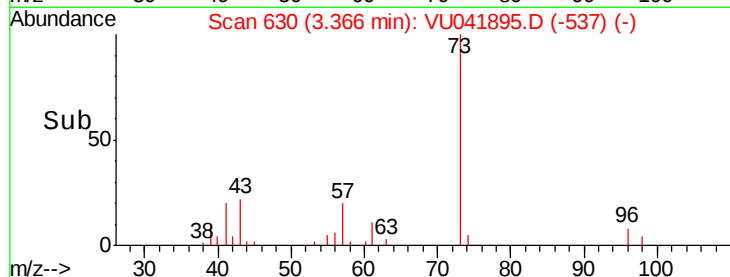
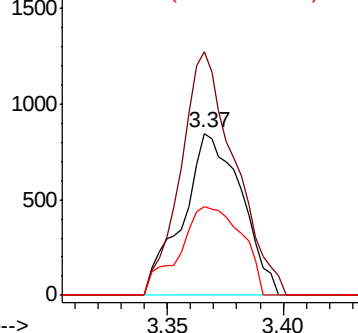
98 54.8 44.4 82.5



Abundance Ion 96.00 (95.70 to 96.70): VU041895.D (-537) (-)

Ion 61.05 (60.75 to 61.75): VU041895.D (-537) (-)

Ion 97.95 (97.65 to 98.65): VU041895.D (-537) (-)



#19

1,1-Dichloroethane

Concen: 2.143 ug/L

RT: 3.89 min Scan# 792

Delta R.T. 0.00 min

Lab File: VU041895.D

Acq: 08 Jan 2021 11:14

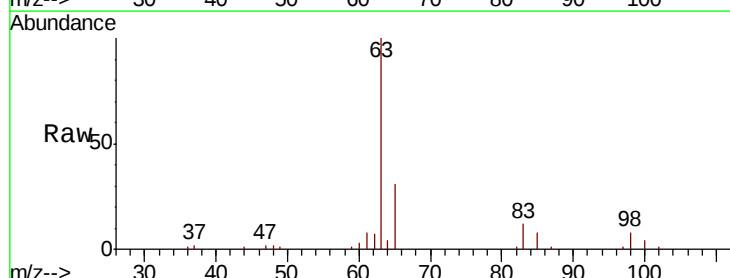
Tgt Ion: 63 Resp: 39827

Ion Ratio Lower Upper

63 100

65 31.2 21.3 39.6

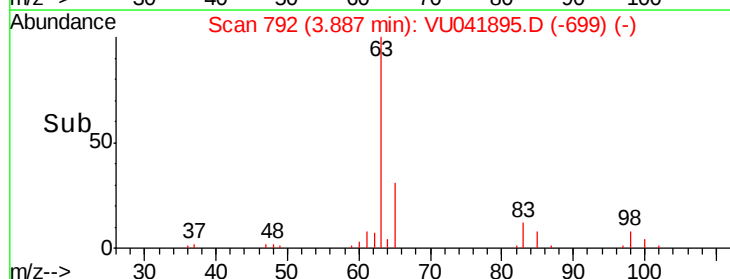
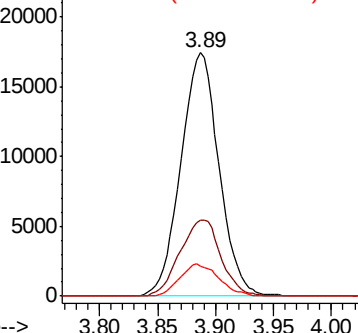
83 12.3 9.3 17.3

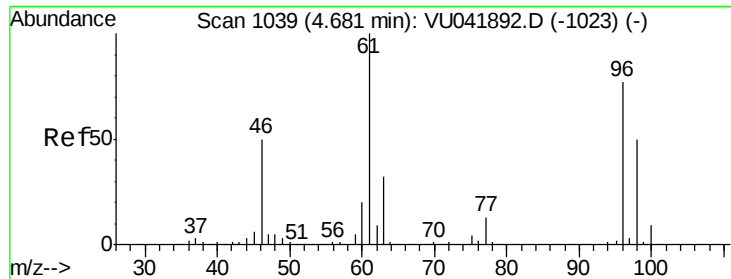


Abundance Ion 63.10 (62.80 to 63.80): VU041895.D (-699) (-)

Ion 65.10 (64.80 to 65.80): VU041895.D (-699) (-)

Ion 83.05 (82.75 to 83.75): VU041895.D (-699) (-)





#22

cis-1,2-Dichloroethene

Concen: 9.259 ug/L

RT: 4.68 min Scan# 1040

Delta R.T. 0.00 min

Lab File: VU041895.D

Acq: 08 Jan 2021 11:14

Instrument :
MSVOA_U
ClientSampleId :

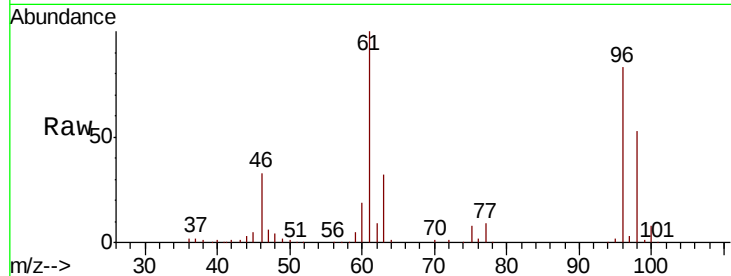
Tot Ion: 96 Resp: 101776

Ion Ratio Lower Upper

96 100

61 121.1 88.8 165.0

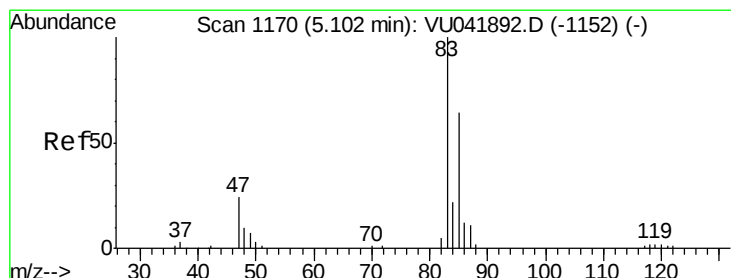
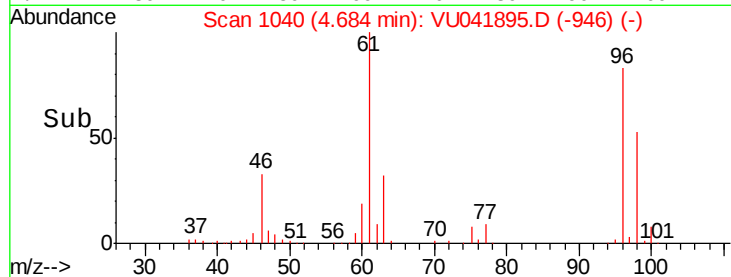
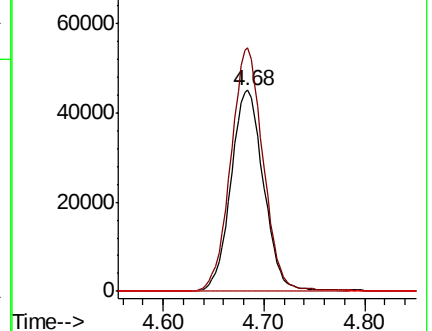
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU041895.D (-1023) (-)

Ion 61.05 (60.75 to 61.75): VU041895.D (-1023) (-)

Ion 68.15 (67.85 to 68.85): VU041895.D (-1023) (-)



#25

Chloroform

Concen: 0.910 ug/L

RT: 5.11 min Scan# 1171

Delta R.T. 0.00 min

Lab File: VU041895.D

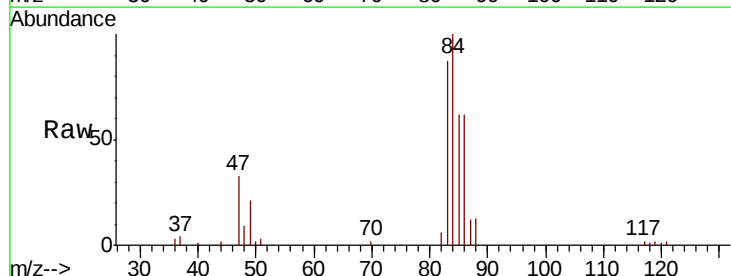
Acq: 08 Jan 2021 11:14

Tgt Ion: 83 Resp: 17035

Ion Ratio Lower Upper

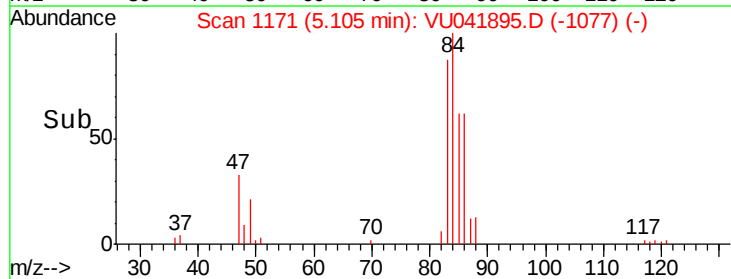
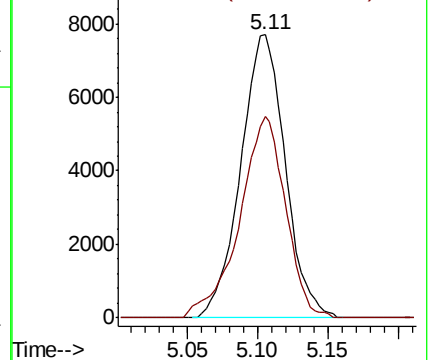
83 100

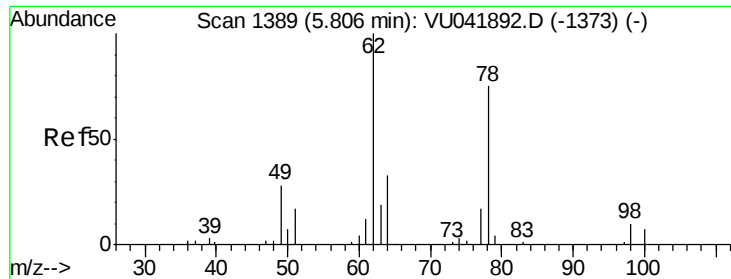
85 71.1 44.2 82.0



Abundance Ion 83.05 (82.75 to 83.75): VU041895.D (-1152) (-)

Ion 85.00 (84.70 to 85.70): VU041895.D (-1152) (-)

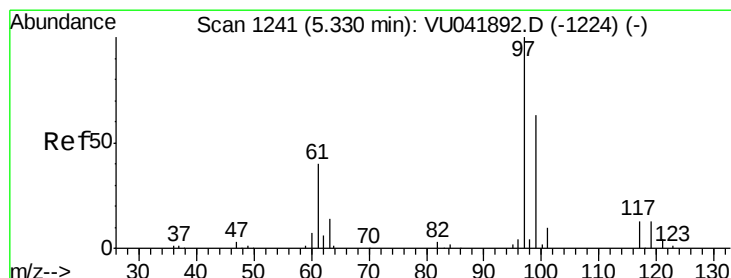
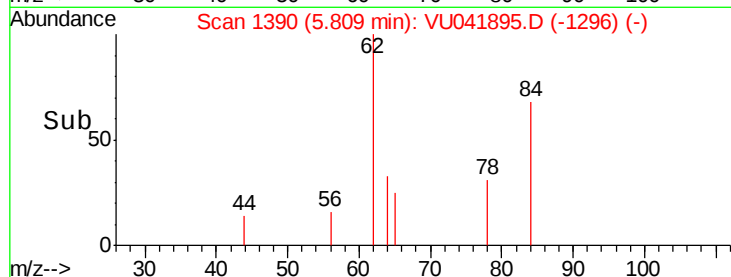
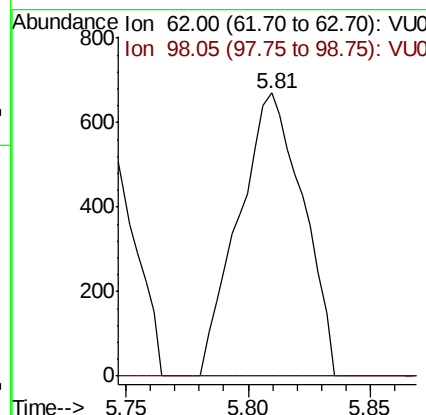
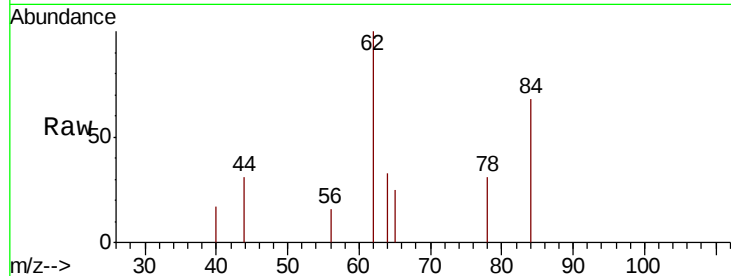




#27
 1,2-Dichloroethane
 Concen: 0.097 ug/L
 RT: 5.81 min Scan# 1390
 Delta R.T. 0.00 min
 Lab File: VU041895.D
 Acq: 08 Jan 2021 11:14

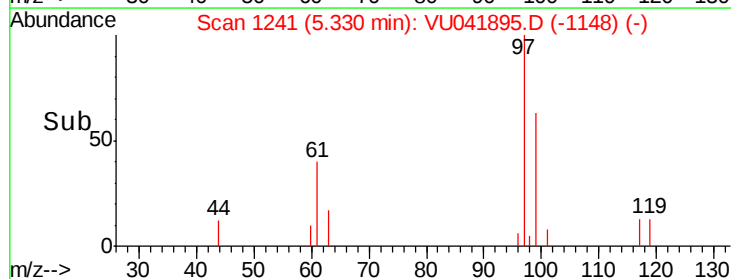
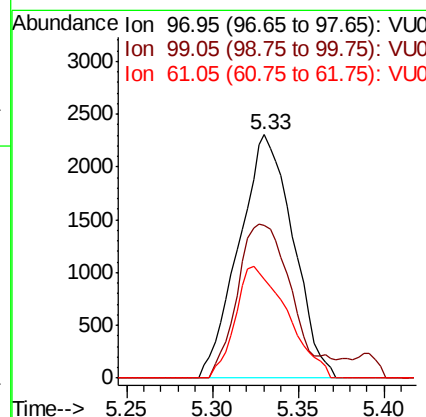
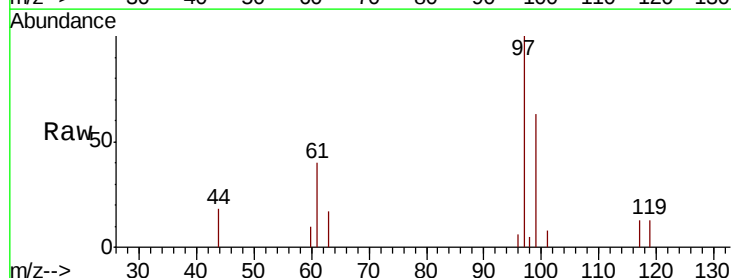
Instrument :
 MSVOA_U
 ClientSampled :

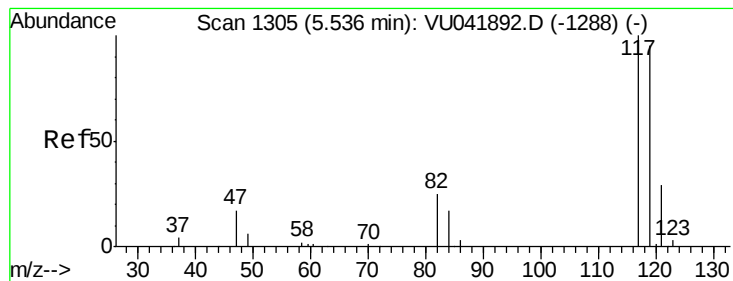
Tot Ion: 62 Resp: 1226
 Ion Ratio Lower Upper
 62 100
 98 0.0 8.2 12.2#



#29
 1,1,1-Trichloroethane
 Concen: 0.321 ug/L
 RT: 5.33 min Scan# 1241
 Delta R.T. 0.00 min
 Lab File: VU041895.D
 Acq: 08 Jan 2021 11:14

Tgt Ion: 97 Resp: 5034
 Ion Ratio Lower Upper
 97 100
 99 64.1 51.3 76.9
 61 43.9 36.5 54.7





#31

Carbon tetrachloride

Concen: 0.312 ug/L

RT: 5.54 min Scan# 1307

Delta R.T. 0.01 min

Lab File: VU041895.D

Acq: 08 Jan 2021 11:14

Instrument :

MSVOA_U

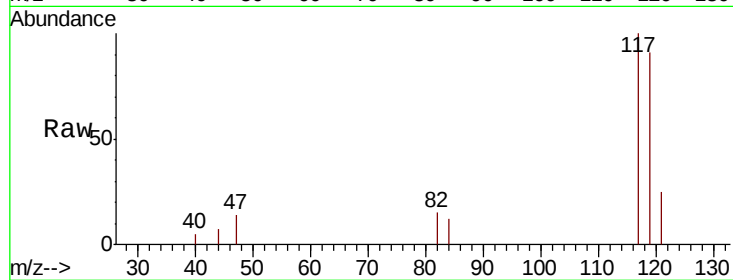
ClientSampleId :

Tot Ion:117 Resp: 4233

Ion Ratio Lower Upper

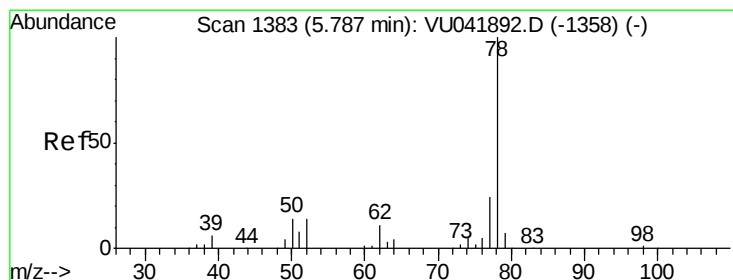
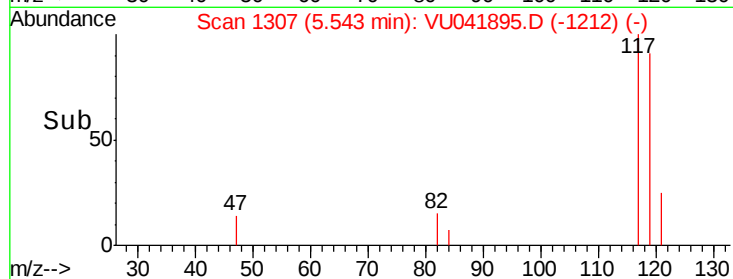
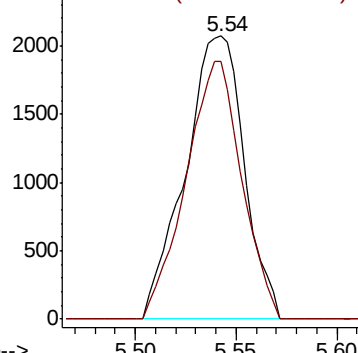
117 100

119 86.1 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: 0.029 ug/L

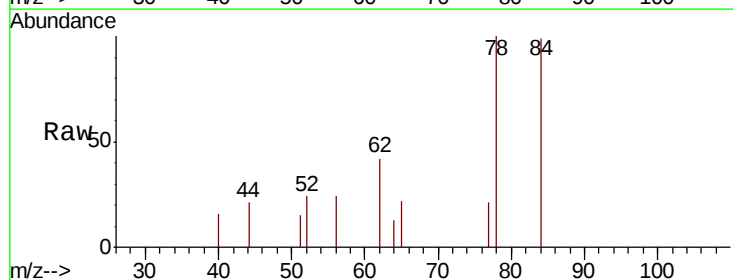
RT: 5.79 min Scan# 1385

Delta R.T. 0.01 min

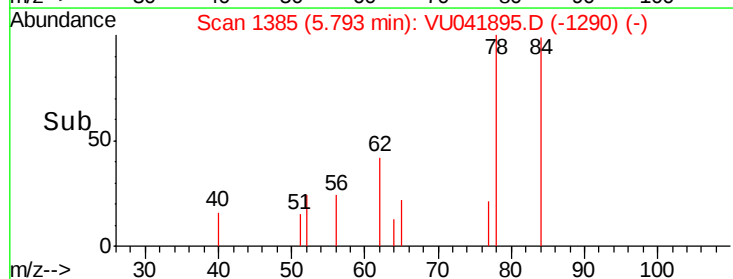
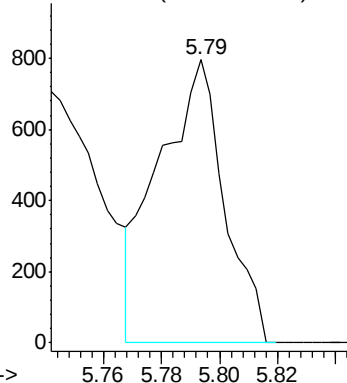
Lab File: VU041895.D

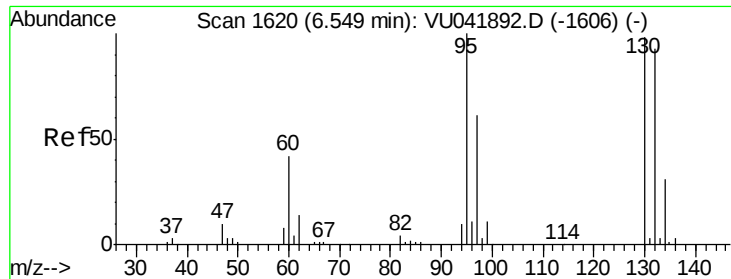
Acq: 08 Jan 2021 11:14

Tgt Ion: 78 Resp: 1256



Abundance Ion 78.10 (77.80 to 78.80): VU0

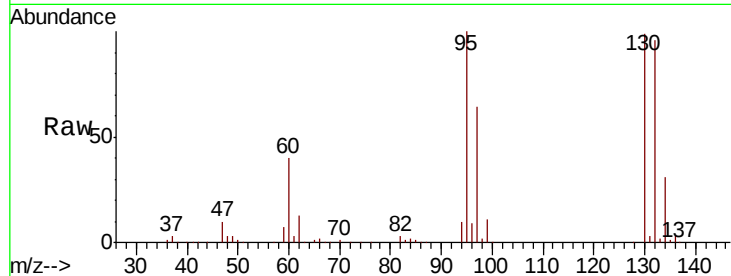




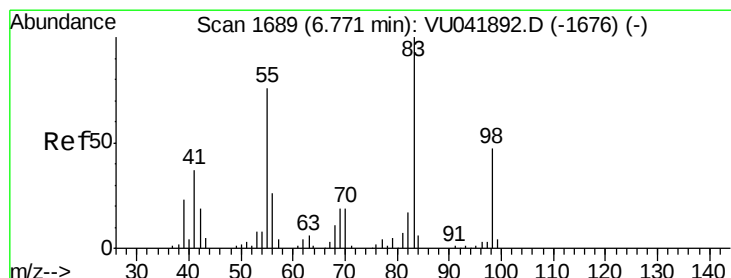
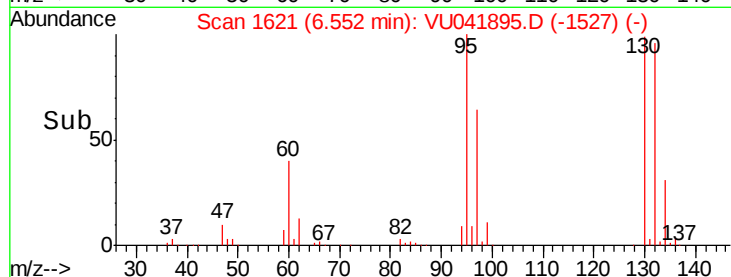
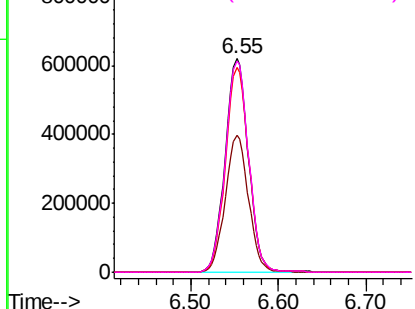
#34
 Trichloroethene
 Concen: 104.687 ug/L
 RT: 6.55 min Scan# 1621
 Delta R.T. 0.00 min
 Lab File: VU041895.D
 Acq: 08 Jan 2021 11:14

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion: 95 Resp: 1150639
 Ion Ratio Lower Upper
 95 100
 97 63.9 43.9 81.5
 132 95.6 63.1 117.3
 130 99.2 67.4 125.2

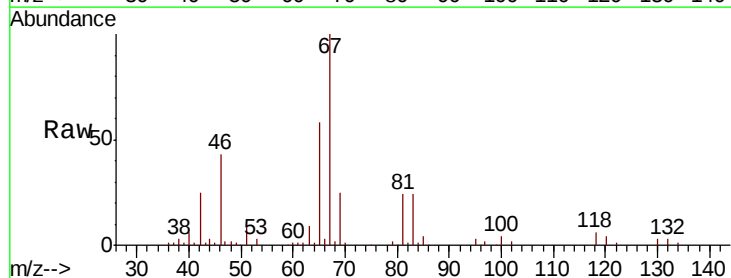


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

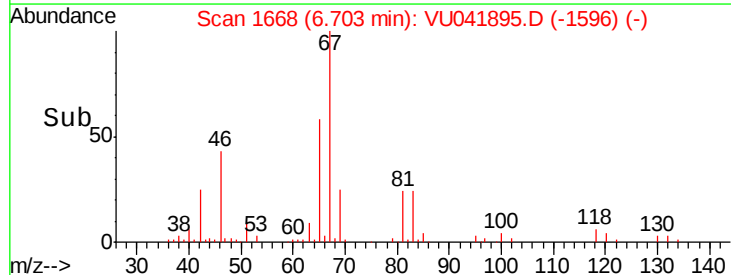
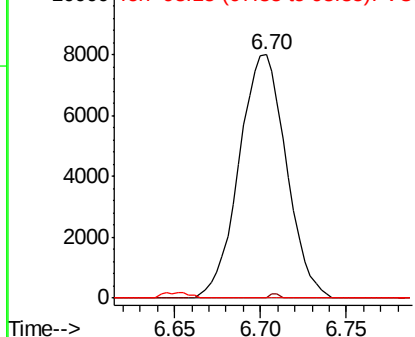


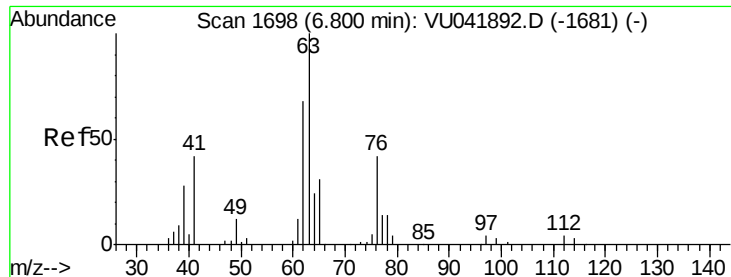
#35
 Methylcyclohexane
 Concen: 0.858 ug/L
 RT: 6.70 min Scan# 1668
 Delta R.T. -0.07 min
 Lab File: VU041895.D
 Acq: 08 Jan 2021 11:14

Tgt Ion: 83 Resp: 15252
 Ion Ratio Lower Upper
 83 100
 55 0.3 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

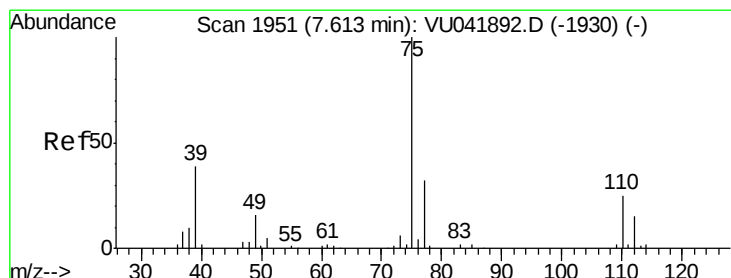
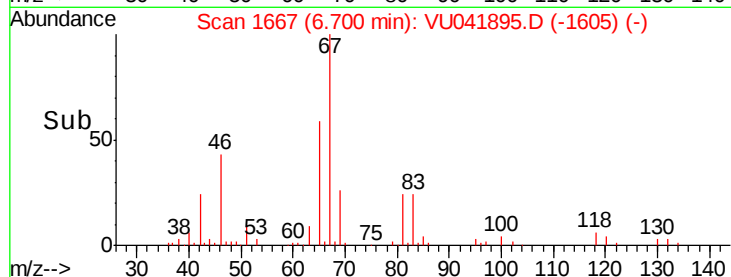
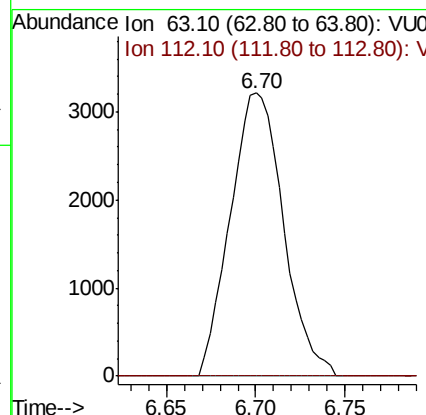
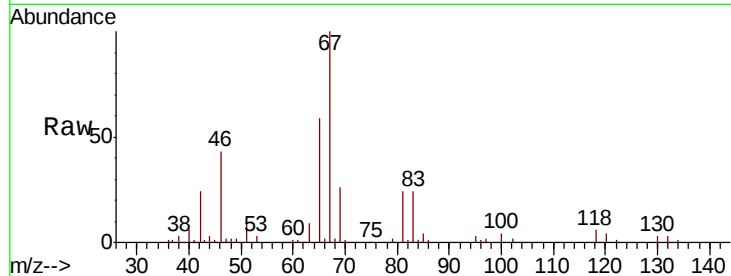




#37
 1,2-Dichloropropane
 Concen: 0.595 ug/L
 RT: 6.70 min Scan# 1667
 Delta R.T. -0.10 min
 Lab File: VU041895.D
 Acq: 08 Jan 2021 11:14

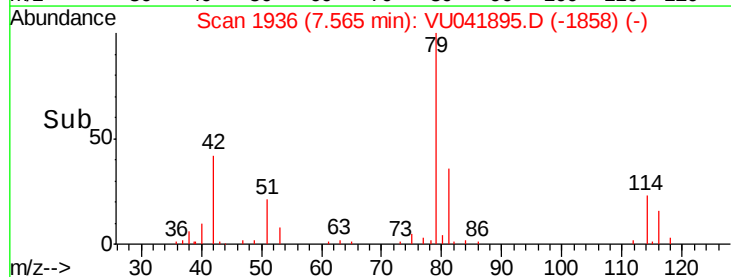
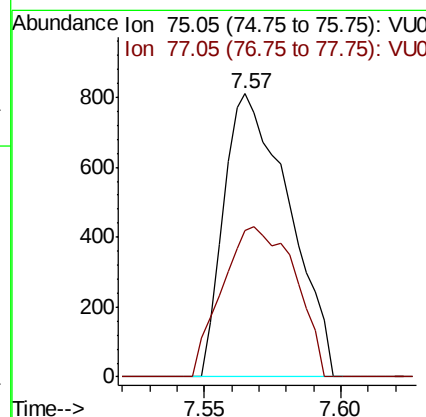
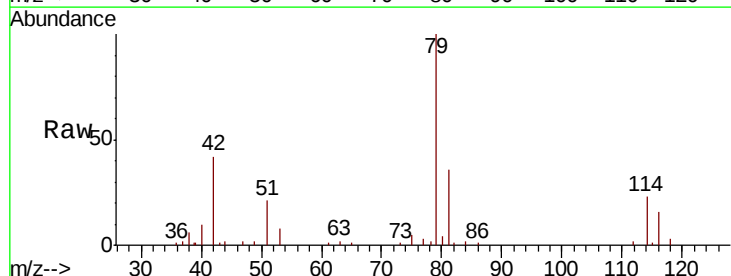
Instrument :
 MSVOA_U
 ClientSampleId :

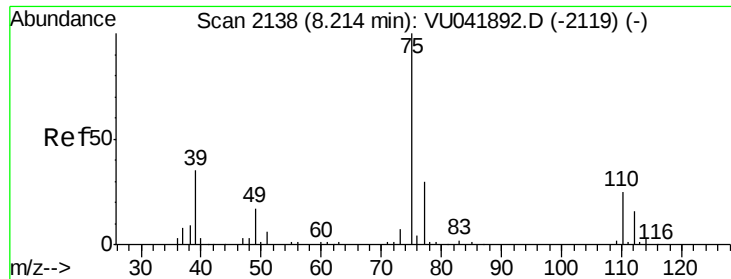
Tot Ion: 63 Resp: 6655
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.1 4.7#



#39
 cis-1,3-Dichloropropene
 Concen: 0.081 ug/L
 RT: 7.57 min Scan# 1936
 Delta R.T. -0.05 min
 Lab File: VU041895.D
 Acq: 08 Jan 2021 11:14

Tgt Ion: 75 Resp: 1346
 Ion Ratio Lower Upper
 75 100
 77 51.6 22.3 41.3#

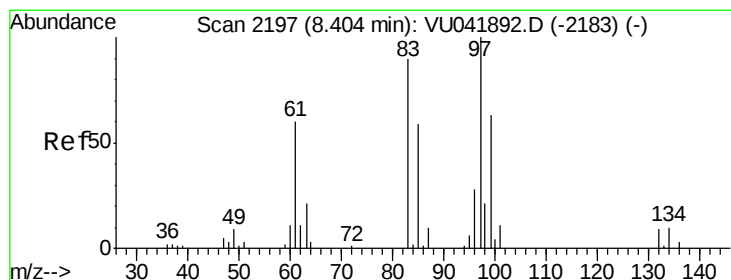
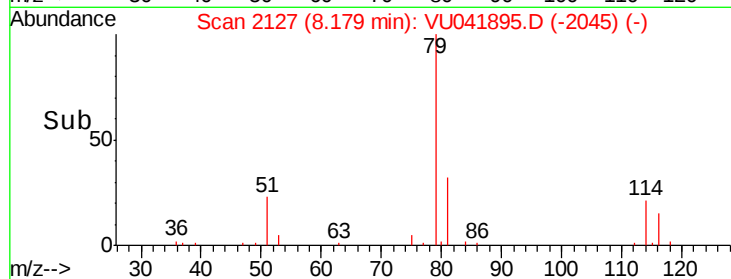
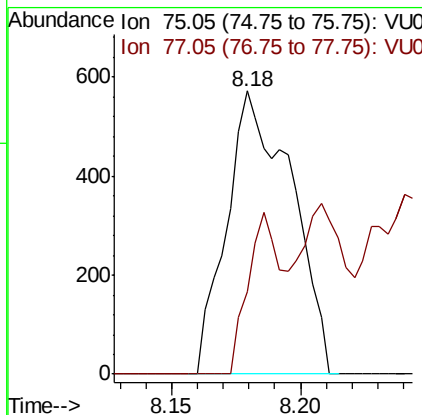
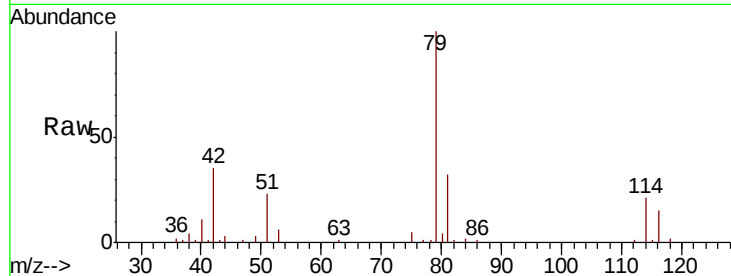




#44
trans-1,3-Dichloropropene
Concen: 0.068 ug/L
RT: 8.18 min Scan# 2127
Delta R.T. -0.04 min
Lab File: VU041895.D
Acq: 08 Jan 2021 11:14

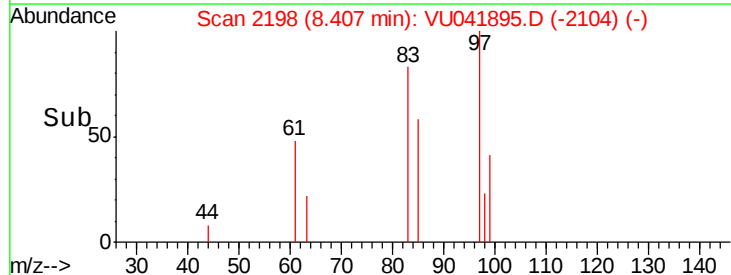
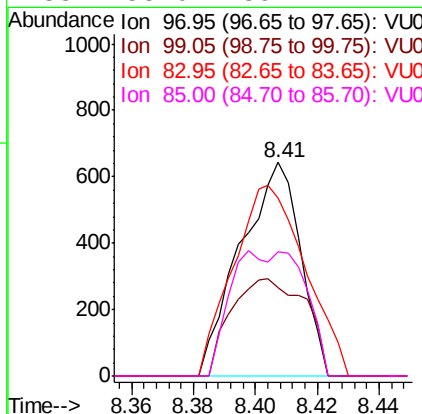
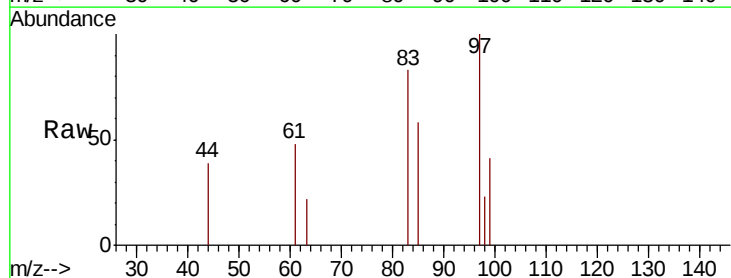
Instrument :
MSVOA_U
ClientSampleId :

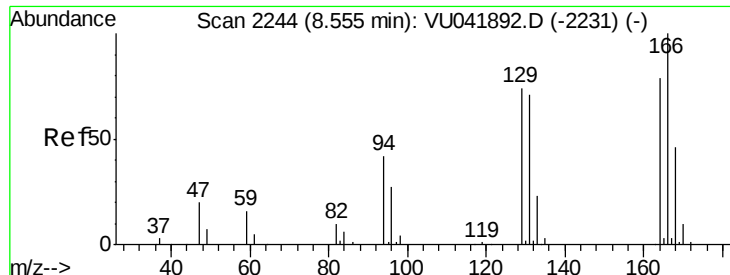
Tot Ion: 75 Resp: 1004
Ion Ratio Lower Upper
75 100
77 29.2 23.8 44.2



#45
1,1,2-Trichloroethane
Concen: 0.105 ug/L
RT: 8.41 min Scan# 2198
Delta R.T. 0.00 min
Lab File: VU041895.D
Acq: 08 Jan 2021 11:14

Tgt Ion: 97 Resp: 867
Ion Ratio Lower Upper
97 100
99 41.2 42.1 78.3#
83 83.2 62.6 116.2
85 58.0 39.1 72.7





#47

Tetrachloroethene

Concen: 6.638 ug/L

RT: 8.56 min Scan# 2244

Delta R.T. 0.00 min

Lab File: VU041895.D

Acq: 08 Jan 2021 11:14

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:164 Resp: 51074

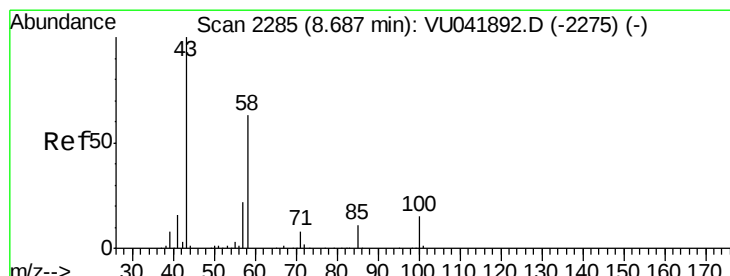
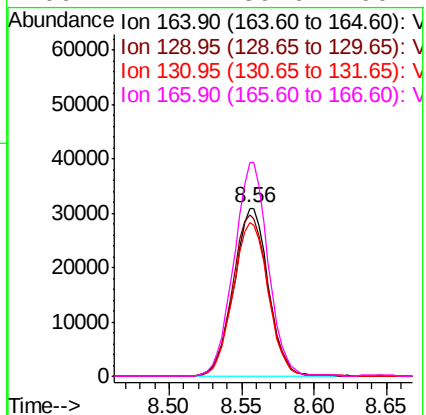
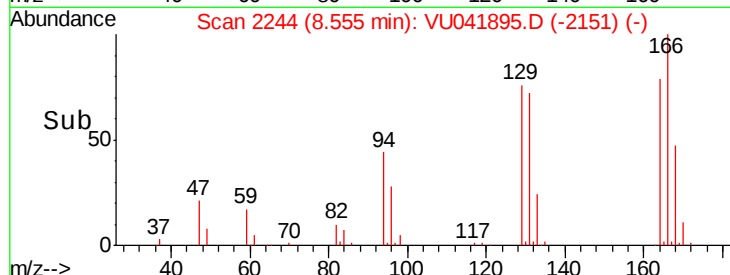
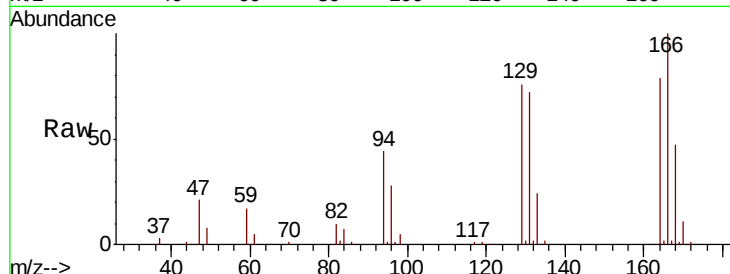
Ion Ratio Lower Upper

164 100

129 96.3 72.2 134.0

131 91.4 66.9 124.3

166 127.1 89.6 166.4



#48

2-Hexanone

Concen: 2.667 ug/L

RT: 8.64 min Scan# 2270

Delta R.T. -0.05 min

Lab File: VU041895.D

Acq: 08 Jan 2021 11:14

Tgt Ion: 43 Resp: 15450

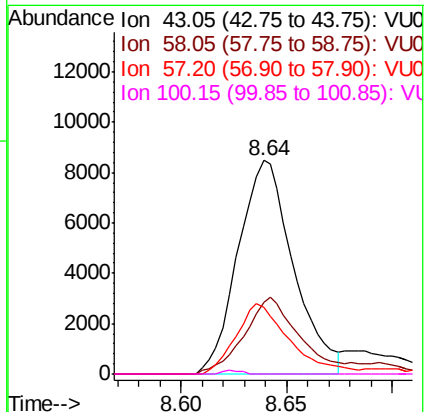
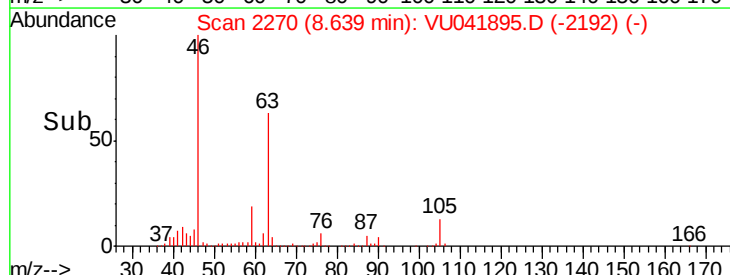
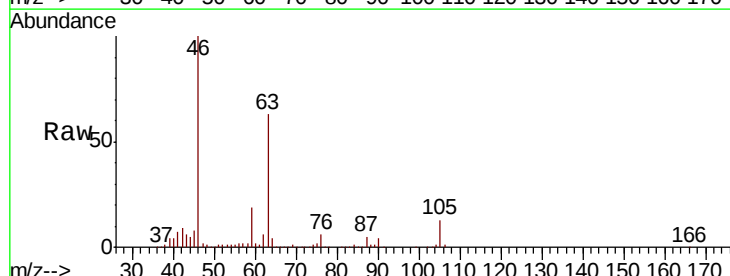
Ion Ratio Lower Upper

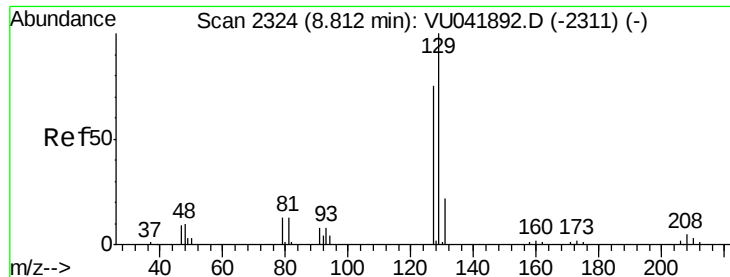
43 100

58 37.4 47.9 71.9#

57 31.9 16.5 24.7#

100 0.6 9.4 14.2#





#49

Dibromochloromethane

Concen: 5.322 ug/L

RT: 8.56 min Scan# 2244

Delta R.T. -0.26 min

Lab File: VU041895.D

Acq: 08 Jan 2021 11:14

Instrument :

MSVOA_U

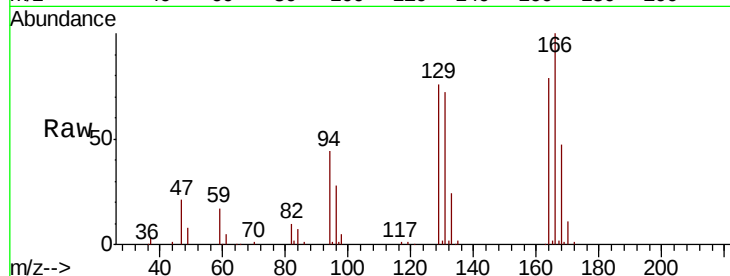
ClientSampleId :

Tot Ion:129 Resp: 50577

Ion Ratio Lower Upper

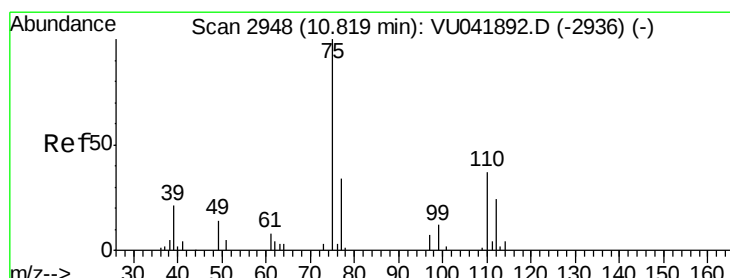
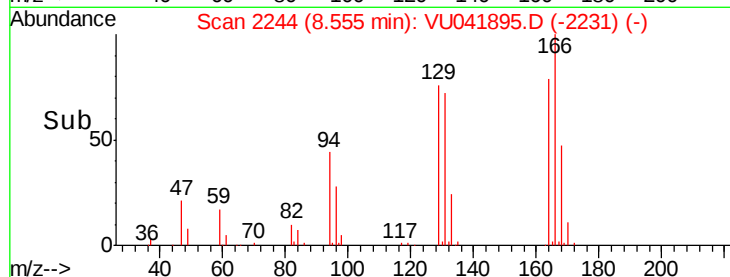
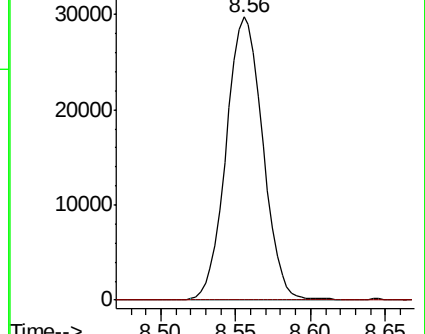
129 100

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: 0.736 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.99 min

Lab File: VU041895.D

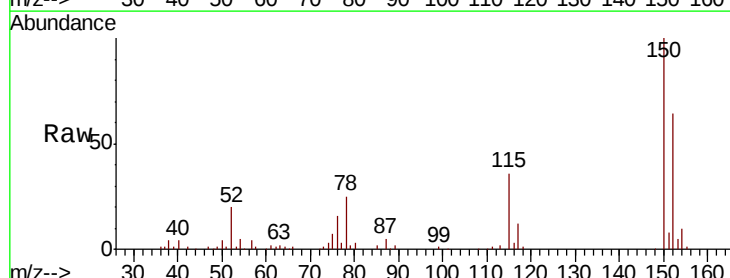
Acq: 08 Jan 2021 11:14

Tgt Ion: 75 Resp: 6188

Ion Ratio Lower Upper

75 100

77 37.4 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

