

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U111720\
 Data File : VU041275.D
 Acq On : 17 Nov 2020 12:54
 Operator : SY/MD
 Sample : L4759-10
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 H4427

Quant Time: Nov 17 22:34:57 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR111620WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Nov 17 22:32:58 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	69121	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	72403	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	30572	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	24818	4.88	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	97.60%
7) Chloroethane-d5	1.92	69	21465	4.94	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	98.80%
11) 1,1-Dichloroethene-d2	2.58	63	37805	3.60	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	72.00%
20) 2-Butanone-d5	4.65	46	100859	48.11	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	96.22%
24) Chloroform-d	5.08	84	55476	5.04	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	100.80%
26) 1,2-Dichloroethane-d4	5.72	65	33937	4.73	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.60%
32) Benzene-d6	5.74	84	100862	5.17	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	103.40%
36) 1,2-Dichloropropane-d6	6.70	67	35556	5.29	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	105.80%
41) Toluene-d8	7.91	98	82270	4.47	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.40%
43) trans-1,3-Dichloropropene-	8.19	79	13117	4.53	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	90.60%
46) 2-Hexanone-d5	8.64	63	71061	45.95	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	91.90%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	30368	4.65	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	93.00%
64) 1,2-Dichlorobenzene-d4	12.19	152	31213	5.23	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	104.60%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.61	62	15970	2.661	ug/L	87
8) Chloroethane	1.93	64	146	0.037	ug/L #	43
10) 1,1,2-Trichloro-1,2,2-trif	2.58	101	294	0.058	ug/L #	22
12) 1,1-Dichloroethene	2.59	96	1250	0.278	ug/L #	1
13) Acetone	2.66	43	1588	1.142	ug/L	97
17) Methyl tert-butyl Ether	3.38	73	5651	0.459	ug/L	95
18) trans-1,2-Dichloroethene	3.37	96	23410	5.342	ug/L	95
19) 1,1-Dichloroethane	3.89	63	5721	0.584	ug/L	97
22) cis-1,2-Dichloroethene	4.69	96	303835	61.392	ug/L	99
25) Chloroform	5.10	83	1347	0.127	ug/L	99
33) Benzene	5.79	78	2146	0.109	ug/L	100
34) Trichloroethene	6.56	95	447818	84.448	ug/L	98
35) Methylcyclohexane	6.70	83	8345	1.185	ug/L #	13
37) 1,2-Dichloropropane	6.70	63	4082	0.712	ug/L #	86
39) cis-1,3-Dichloropropene	7.57	75	1075	0.134	ug/L #	81
44) trans-1,3-Dichloropropene	8.19	75	584	0.077	ug/L #	46
47) Tetrachloroethene	8.56	164	13946	3.559	ug/L	97

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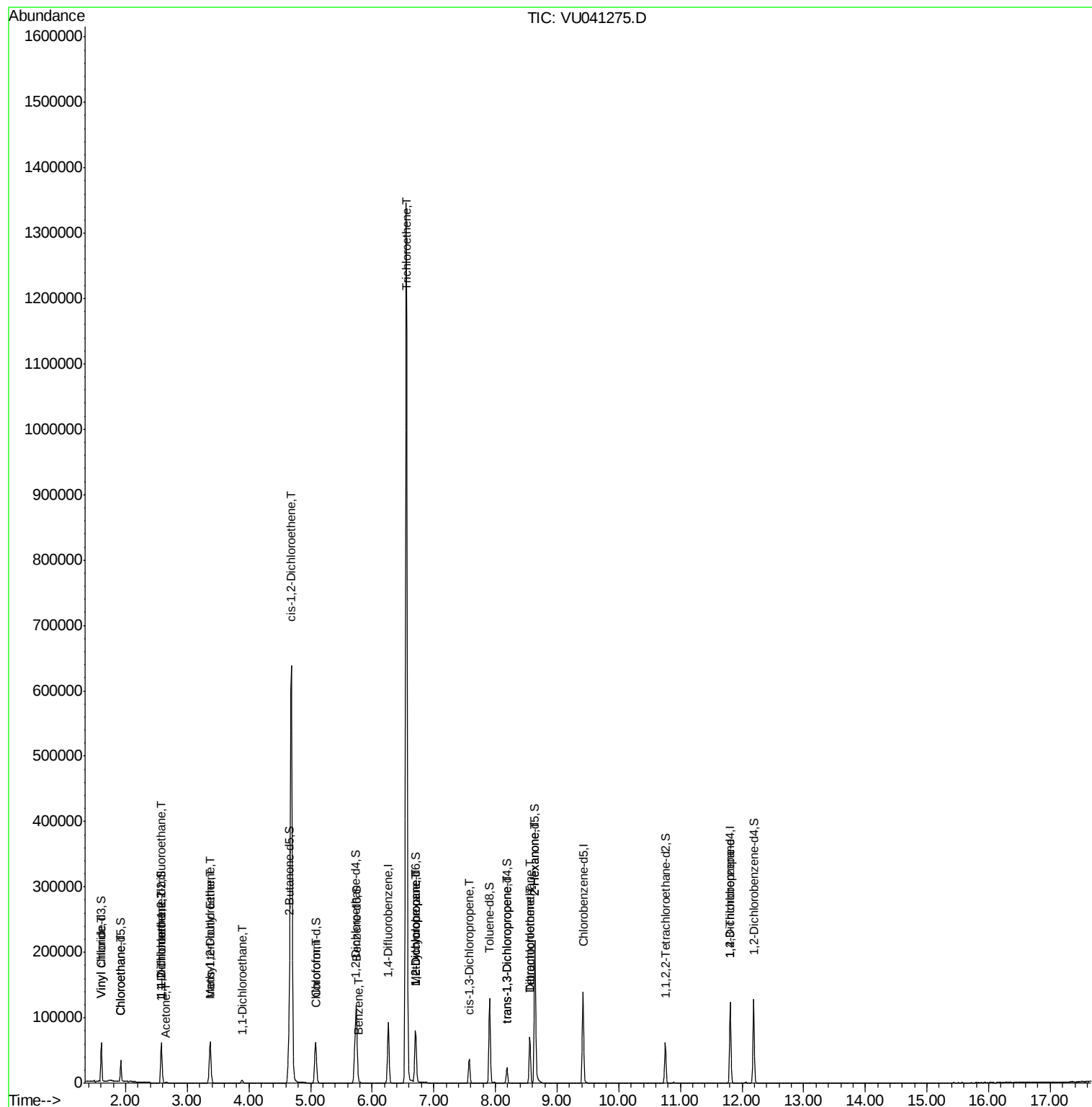
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 2-Hexanone	8.64	43	9723	2.744	ug/L #	72
49) Dibromochloromethane	8.56	129	14861	2.827	ug/L #	11
59) 1,2,3-Trichloropropane	11.81	75	3907	0.864	ug/L #	80

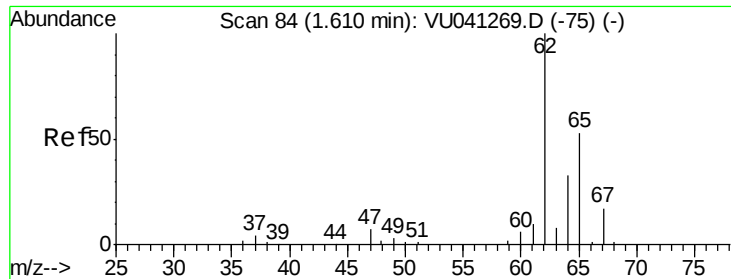
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU111720\
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#5

Vinyl chloride

Concen: 2.661 ug/L

RT: 1.61 min Scan# 84

Delta R.T. -0.00 min

Lab File: VU041275.D

Acq: 17 Nov 2020 12:54

Instrument :

MSVOA_U

ClientSampleId :

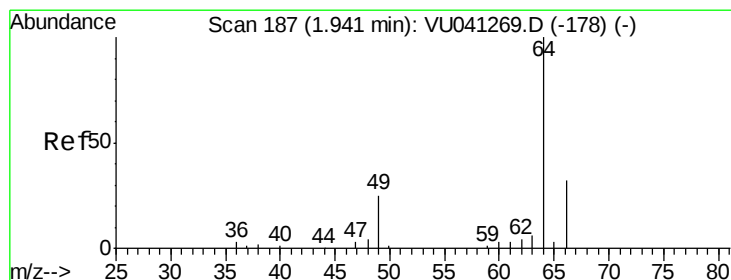
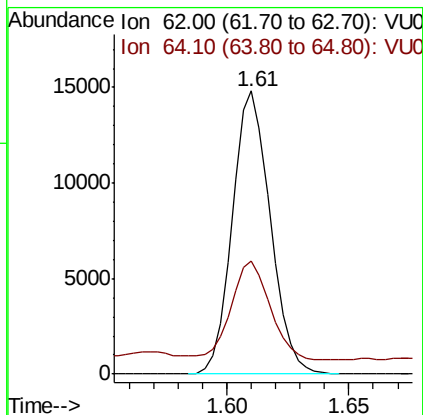
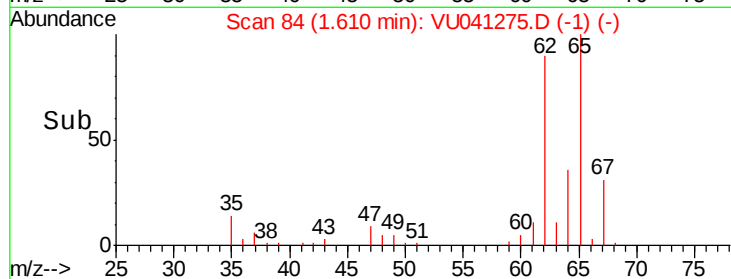
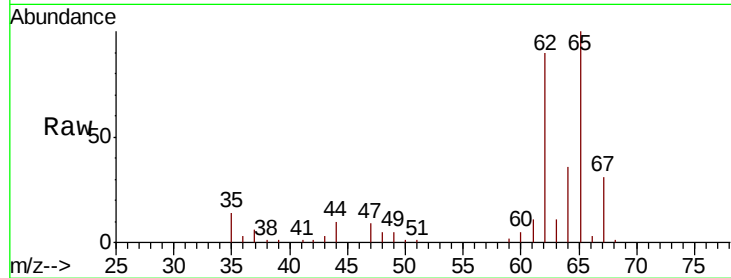
H4427

Tot Ion: 62 Resp: 15970

Ion Ratio Lower Upper

62 100

64 39.8 22.7 42.3



#8

Chloroethane

Concen: 0.037 ug/L

RT: 1.93 min Scan# 184

Delta R.T. -0.01 min

Lab File: VU041275.D

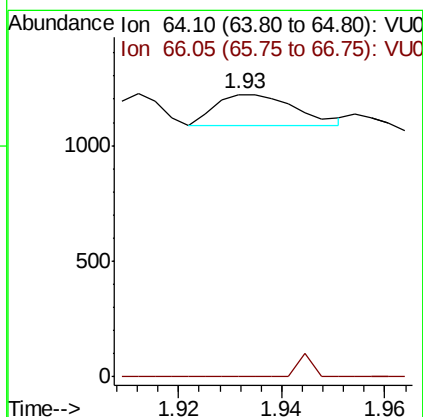
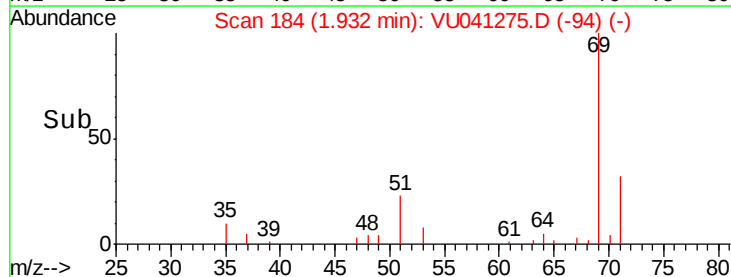
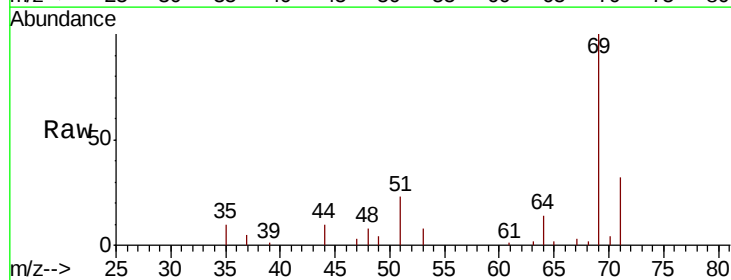
Acq: 17 Nov 2020 12:54

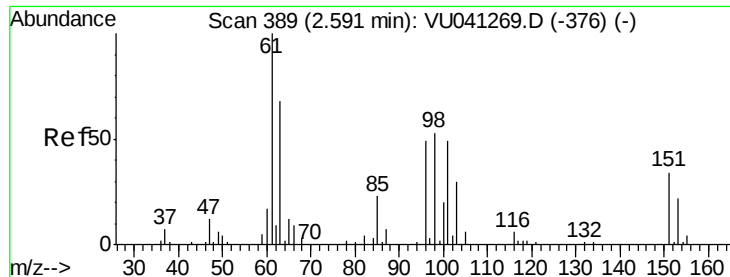
Tgt Ion: 64 Resp: 146

Ion Ratio Lower Upper

64 100

66 0.0 22.3 41.5#





#10

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

Concen: 0.058 ug/L

RT: 2.58 min Scan# 386

Delta R.T. -0.01 min

Lab File: VU041275.D

Acq: 17 Nov 2020 12:54

Instrument :

MSVOA_U

ClientSampleId :

H4427

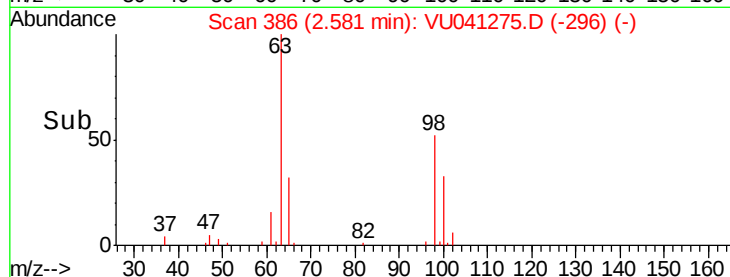
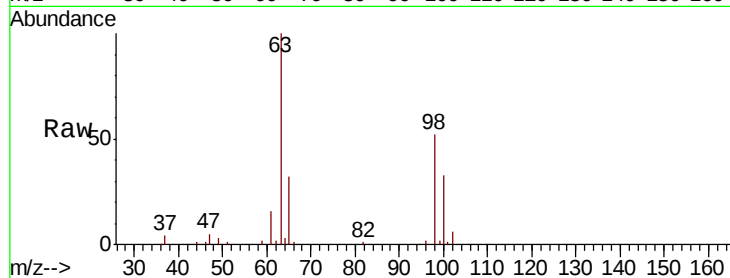
Tot Ion:101 Resp: 294

Ion Ratio Lower Upper

101 100

85 0.0 35.0 52.4#

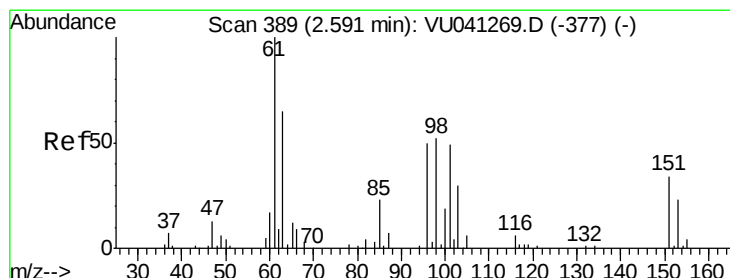
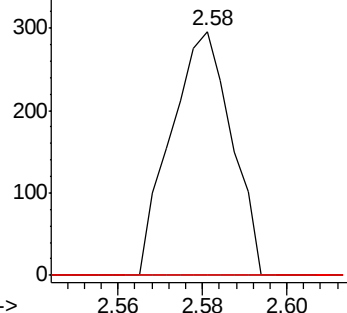
151 0.0 55.3 82.9#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 0.278 ug/L

RT: 2.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU041275.D

Acq: 17 Nov 2020 12:54

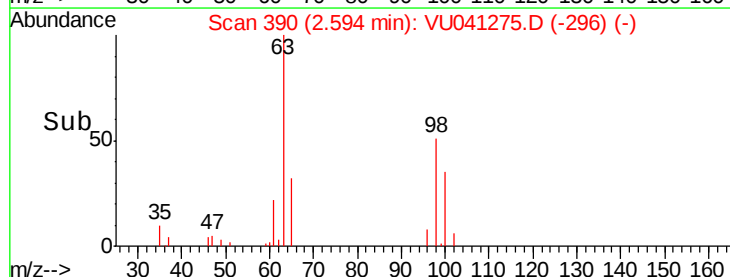
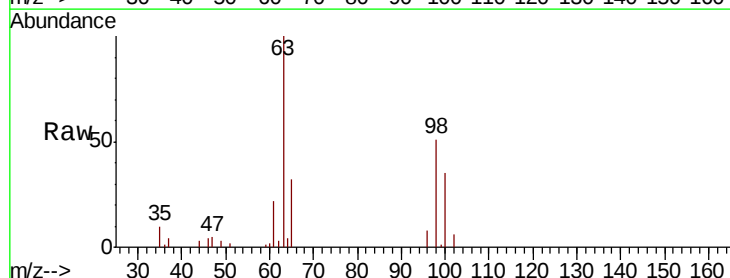
Tgt Ion: 96 Resp: 1250

Ion Ratio Lower Upper

96 100

61 281.6 134.3 249.5#

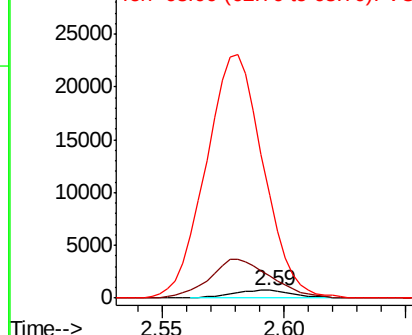
63 1307.5 95.0 176.4#

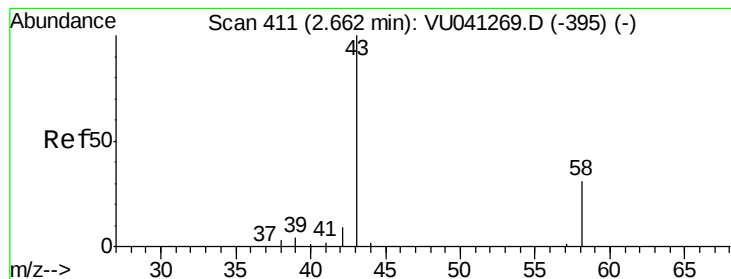


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 1.142 ug/L

RT: 2.66 min Scan# 411

Delta R.T. -0.00 min

Lab File: VU041275.D

Acq: 17 Nov 2020 12:54

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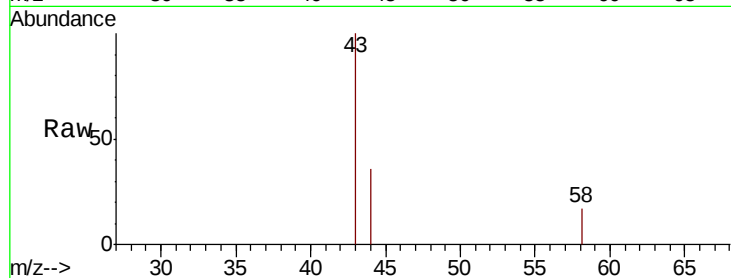
H4427

Tot Ion: 43 Resp: 1588

Ion Ratio Lower Upper

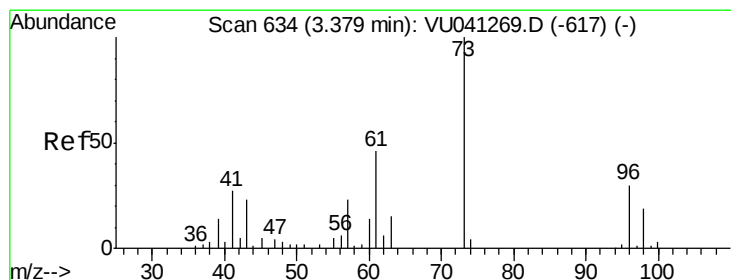
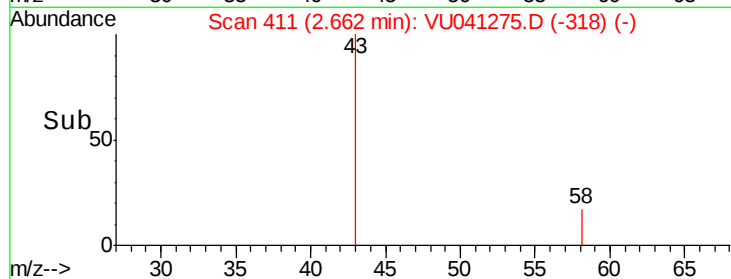
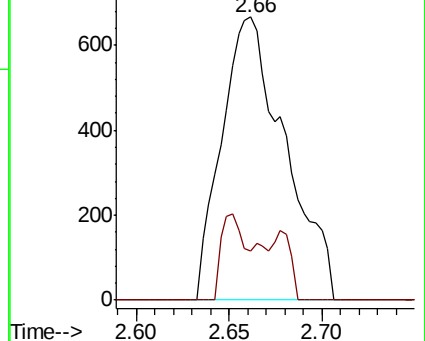
43 100

58 11.6 0.0 25.4



Abundance Ion 43.05 (42.75 to 43.75): VU041275.D (-318) (-)

Ion 58.05 (57.75 to 58.75): VU041275.D (-318) (-)



#17

Methyl tert-butyl Ether

Concen: 0.459 ug/L

RT: 3.38 min Scan# 636

Delta R.T. 0.01 min

Lab File: VU041275.D

Acq: 17 Nov 2020 12:54

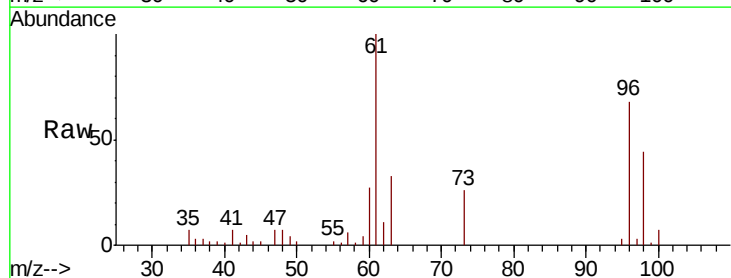
Tgt Ion: 73 Resp: 5651

Ion Ratio Lower Upper

73 100

43 21.5 18.5 27.7

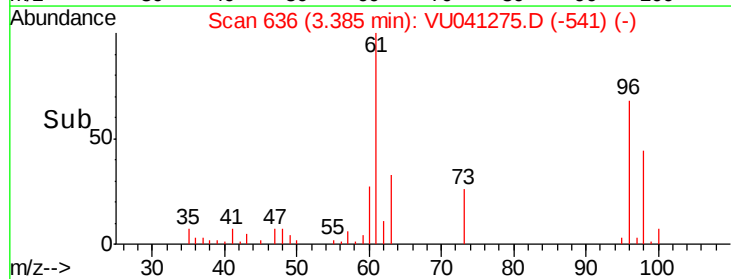
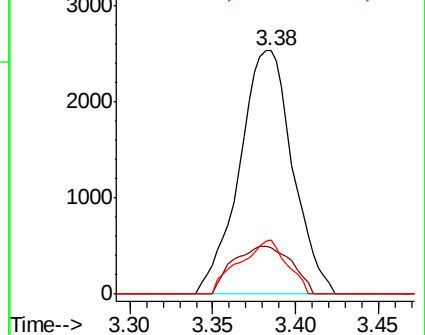
57 19.8 18.4 27.6

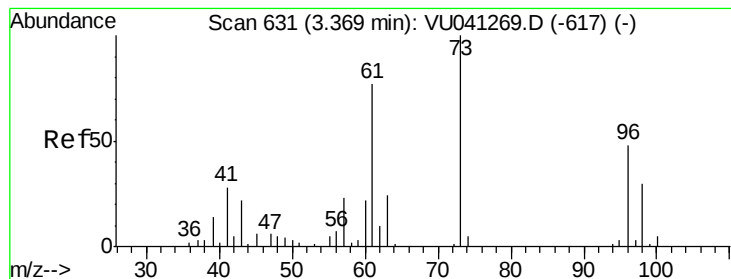


Abundance Ion 73.10 (72.80 to 73.80): VU041275.D (-541) (-)

Ion 43.05 (42.75 to 43.75): VU041275.D (-541) (-)

Ion 57.10 (56.80 to 57.80): VU041275.D (-541) (-)





#18

trans-1,2-Dichloroethene

Concen: 5.342 ug/L

RT: 3.37 min Scan# 632

Delta R.T. 0.00 min

Lab File: VU041275.D

Acq: 17 Nov 2020 12:54

Instrument :

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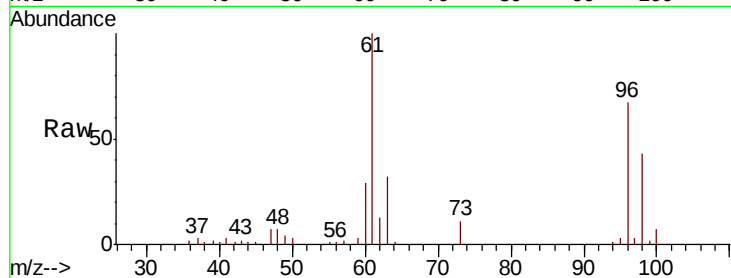
Tot Ion: 96 Resp: 23410

Ion Ratio Lower Upper

96 100

61 149.4 110.9 205.9

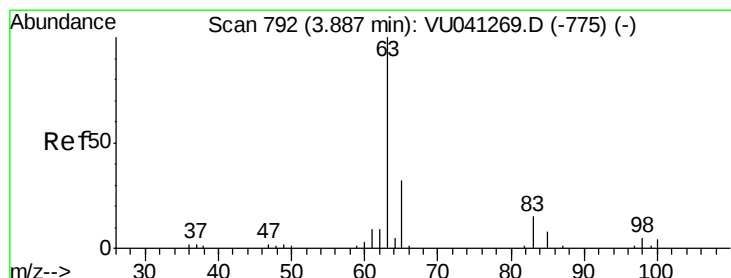
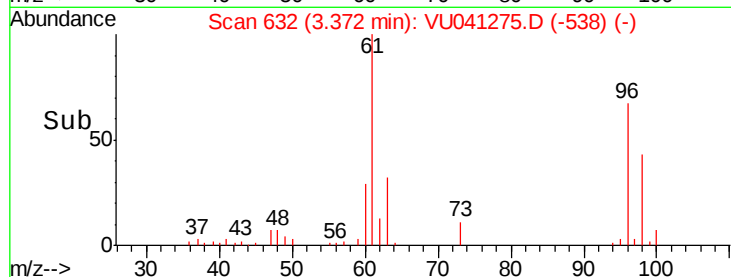
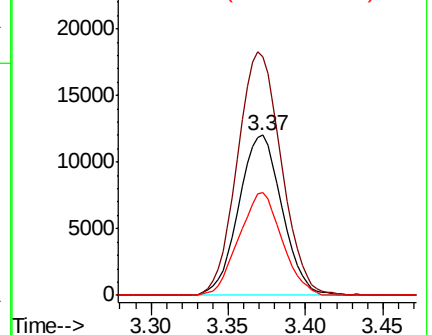
98 64.3 45.4 84.2



Abundance Ion 96.00 (95.70 to 96.70): VU041269.D (-617) (-)

Ion 61.05 (60.75 to 61.75): VU041269.D (-617) (-)

Ion 97.95 (97.65 to 98.65): VU041269.D (-617) (-)



#19

1,1-Dichloroethane

Concen: 0.584 ug/L

RT: 3.89 min Scan# 793

Delta R.T. 0.00 min

Lab File: VU041275.D

Acq: 17 Nov 2020 12:54

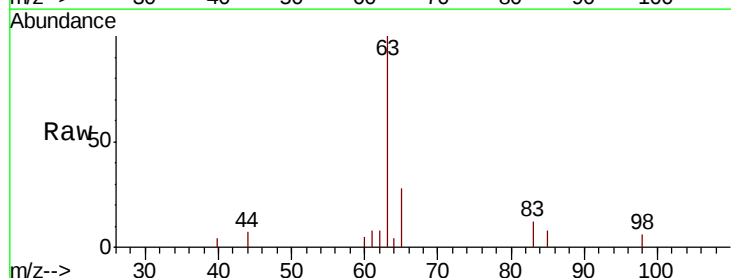
Tgt Ion: 63 Resp: 5721

Ion Ratio Lower Upper

63 100

65 28.5 21.3 39.6

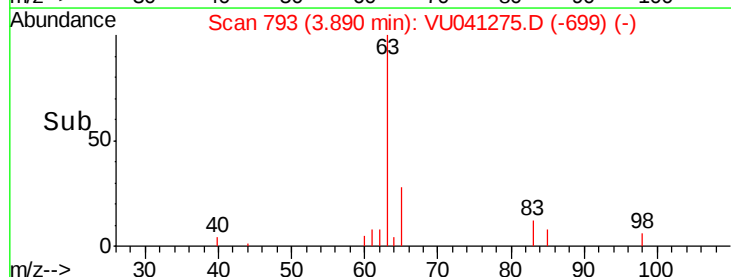
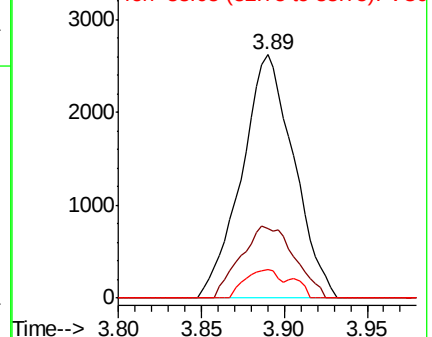
83 11.9 8.8 16.3

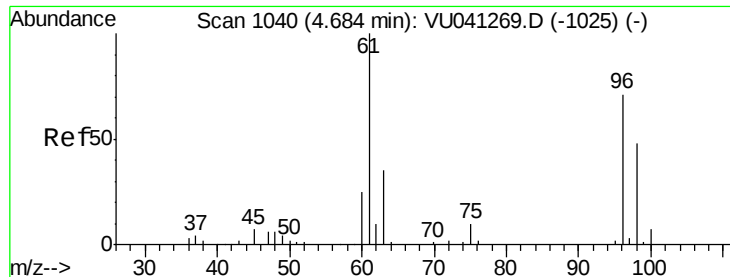


Abundance Ion 63.10 (62.80 to 63.80): VU041269.D (-775) (-)

Ion 65.10 (64.80 to 65.80): VU041269.D (-775) (-)

Ion 83.05 (82.75 to 83.75): VU041269.D (-775) (-)





#22

cis-1,2-Dichloroethene

Concen: 61.392 ug/L

RT: 4.69 min Scan# 1041

Delta R.T. 0.00 min

Lab File: VU041275.D

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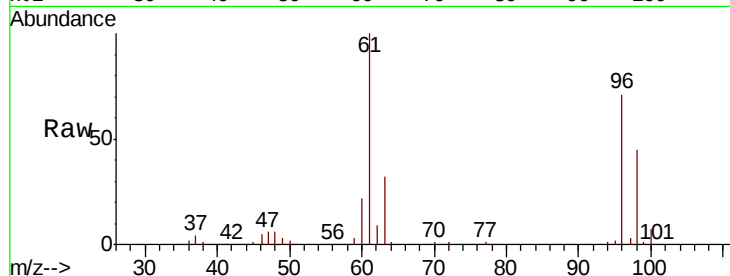
Tot Ion: 96 Resp: 303835

Ion Ratio Lower Upper

96 100

61 140.0 97.2 180.4

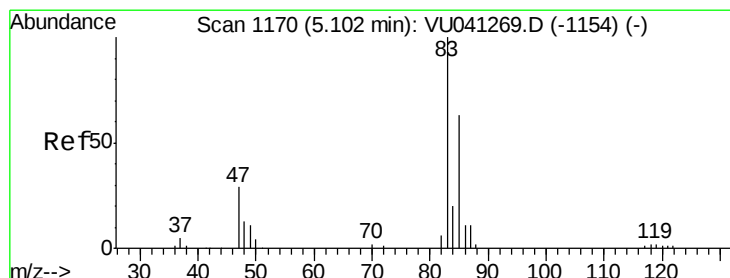
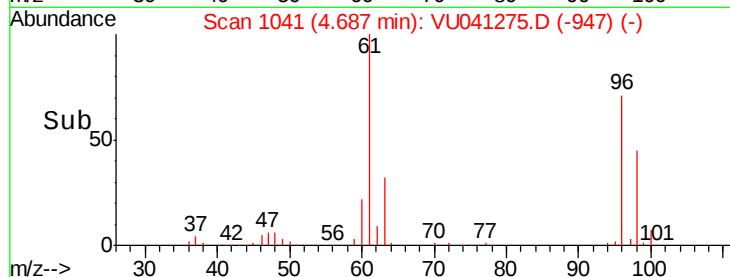
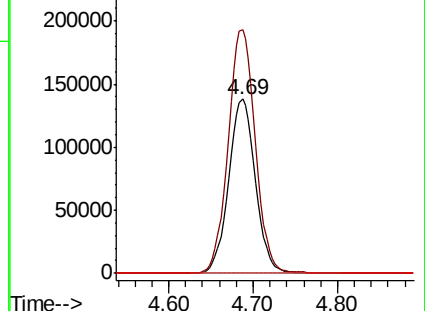
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU041275.D (-1025) (-)

Ion 61.05 (60.75 to 61.75): VU041275.D (-1025) (-)

Ion 68.15 (67.85 to 68.85): VU041275.D (-1025) (-)



#25

Chloroform

Concen: 0.127 ug/L

RT: 5.10 min Scan# 1170

Delta R.T. -0.00 min

Lab File: VU041275.D

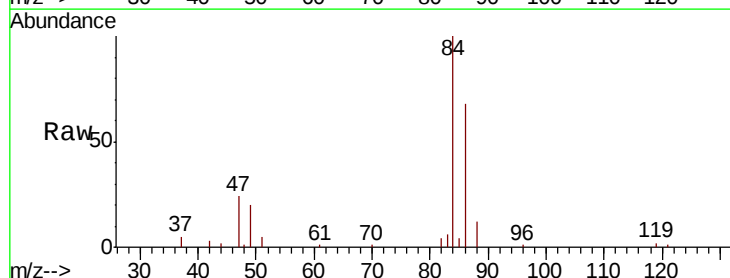
Acq: 17 Nov 2020 12:54

Tgt Ion: 83 Resp: 1347

Ion Ratio Lower Upper

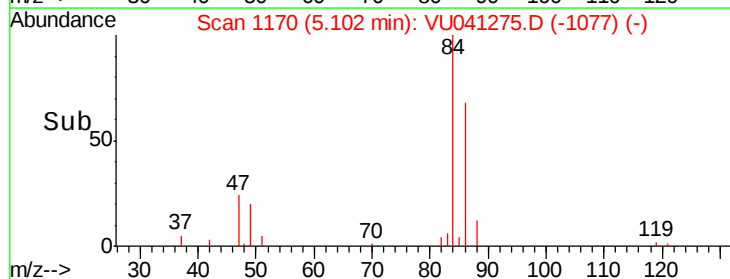
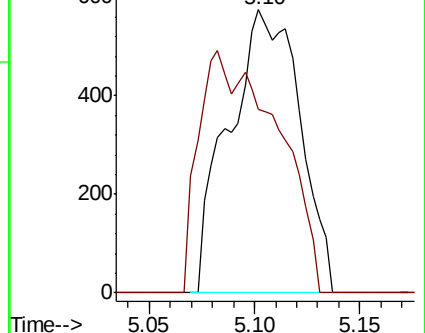
83 100

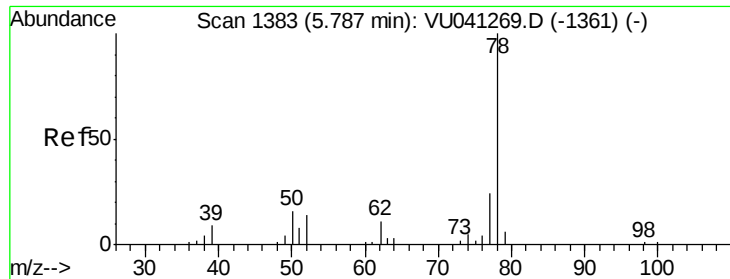
85 64.8 46.1 85.7



Abundance Ion 83.05 (82.75 to 83.75): VU041275.D (-1077) (-)

Ion 85.00 (84.70 to 85.70): VU041275.D (-1077) (-)

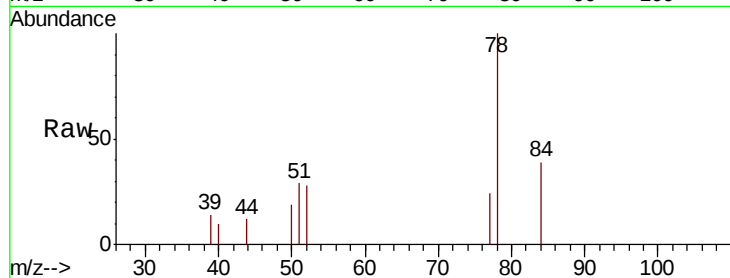




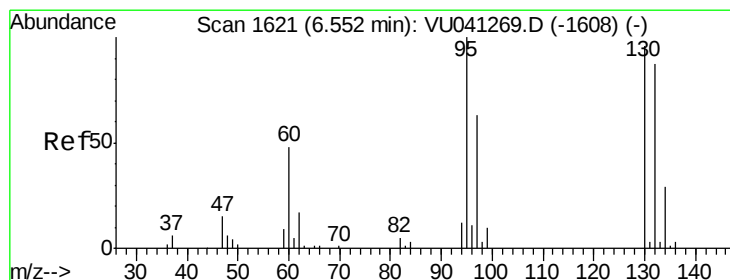
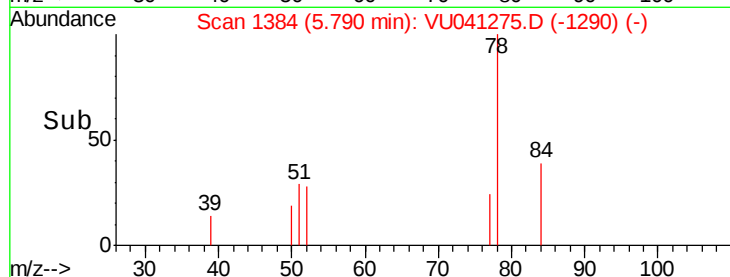
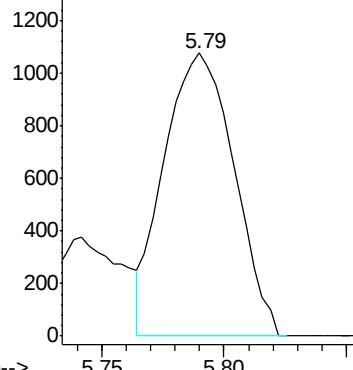
#33
Benzene
Concen: 0.109 ug/L
RT: 5.79 min Scan# 1384
Delta R.T. 0.00 min
Lab File: VU041275.D
Acq: 17 Nov 2020 12:54

Instrument :
MSVOA_U
ClientSampled :
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Tgt Ion: 78 Resp: 2146



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34
Trichloroethene
Concen: 84.448 ug/L
RT: 6.56 min Scan# 1622
Delta R.T. 0.00 min
Lab File: VU041275.D
Acq: 17 Nov 2020 12:54

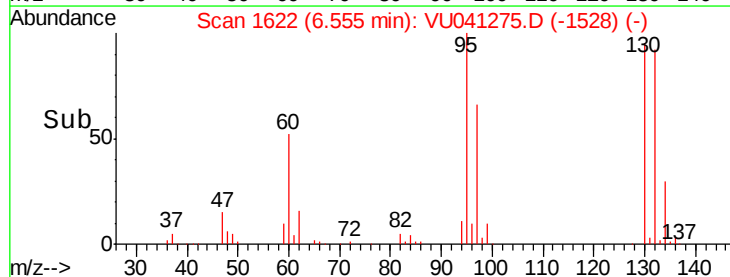
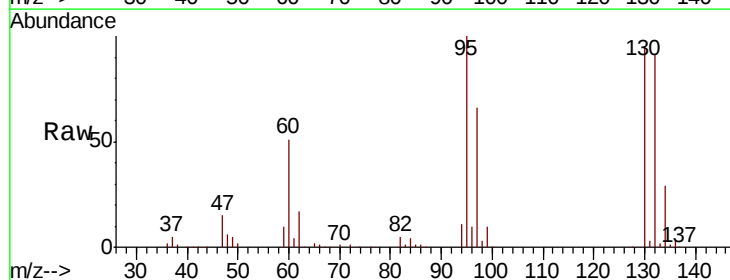
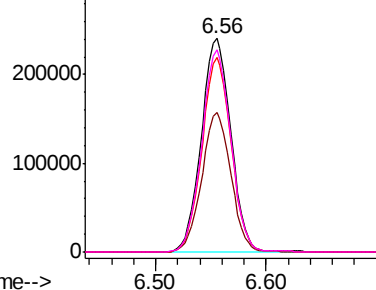
Tgt Ion: 95 Resp: 447818
Ion Ratio Lower Upper
95 100
97 65.6 45.6 84.6
132 91.2 64.8 120.4
130 94.7 64.8 120.4

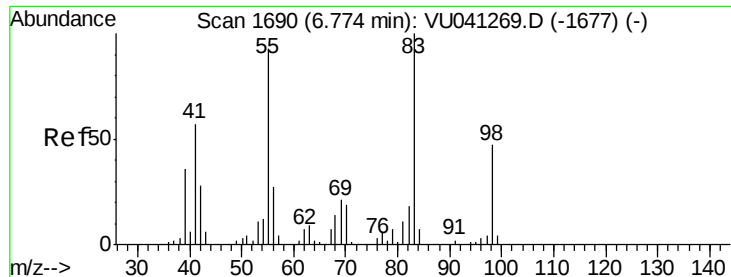
Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V

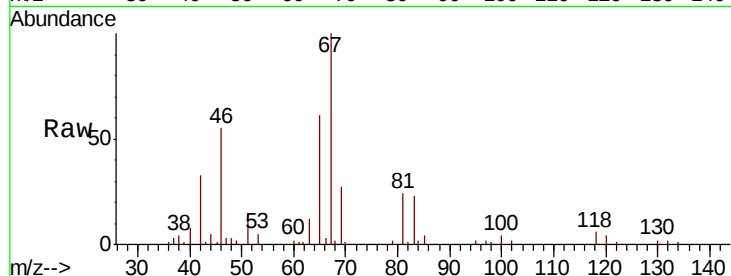




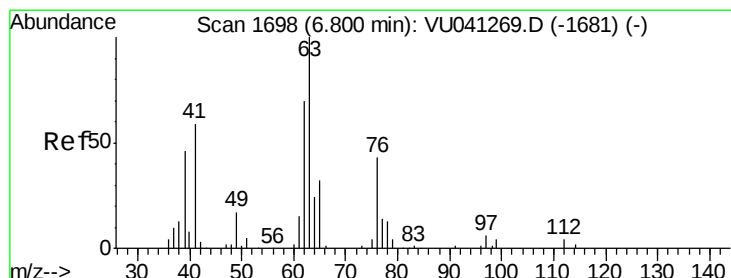
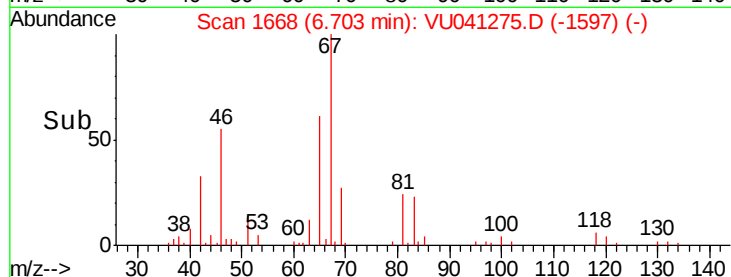
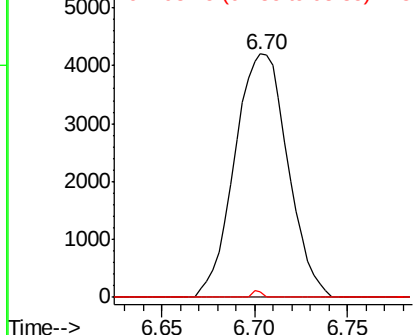
#35
Methylcyclohexane
Concen: 1.185 ug/L
RT: 6.70 min Scan# 1668
Delta R.T. -0.07 min
Lab File: VU041275.D
Acq: 17 Nov 2020 12:54

Instrument :
MSVOA_U
ClientSampled :
H4427

Tot Ion: 83 Resp: 8345
Ion Ratio Lower Upper
83 100
55 0.0 72.0 108.0#
98 0.0 36.6 55.0#

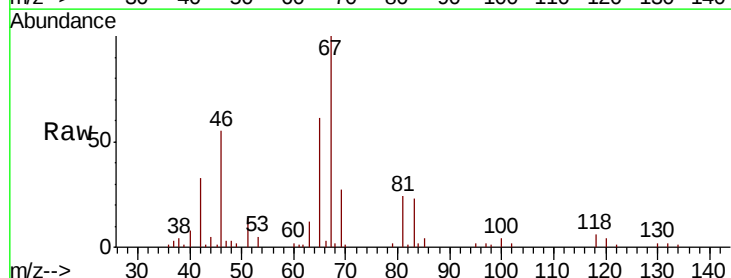


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

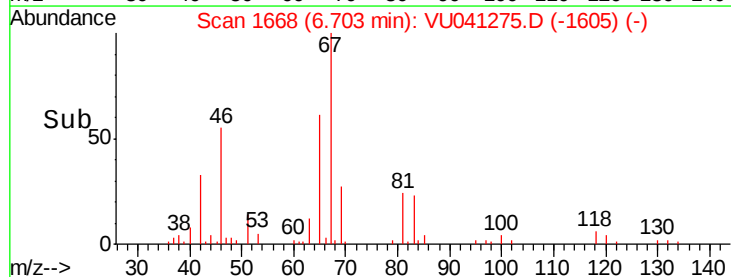
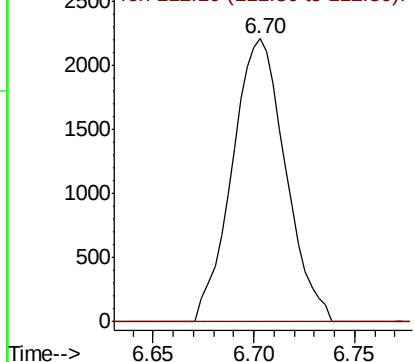


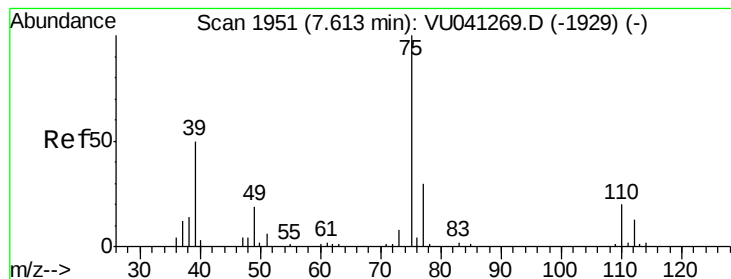
#37
1,2-Dichloropropane
Concen: 0.712 ug/L
RT: 6.70 min Scan# 1668
Delta R.T. -0.10 min
Lab File: VU041275.D
Acq: 17 Nov 2020 12:54

Tgt Ion: 63 Resp: 4082
Ion Ratio Lower Upper
63 100
112 0.0 3.6 5.4#



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



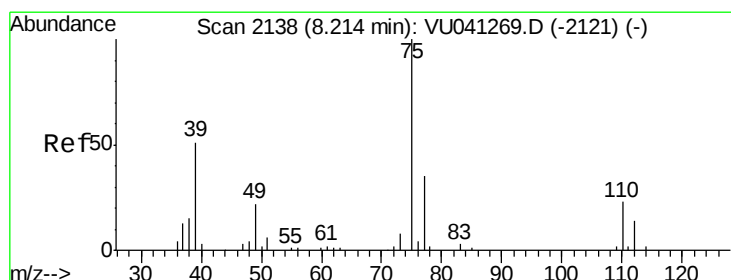
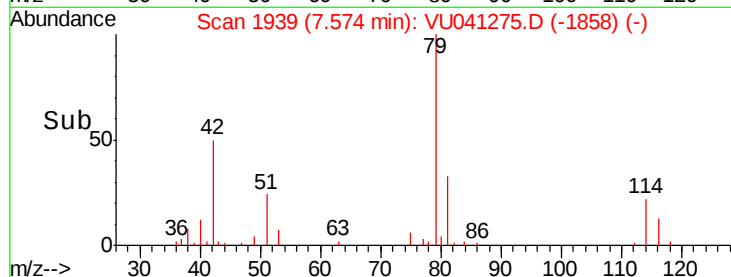
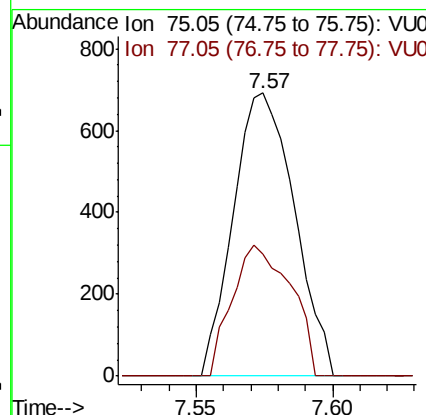
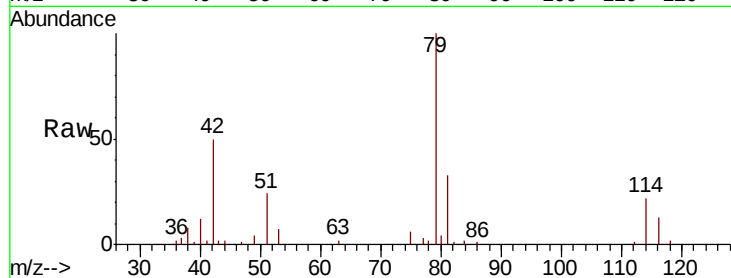


#39

cis-1,3-Dichloropropene
Concen: 0.134 ug/L
RT: 7.57 min Scan# 1939
Delta R.T. -0.04 min
Lab File: VU041275.D
Acq: 17 Nov 2020 12:54

Instrument :
MSVOA_U
ClientSampleId :
H4427

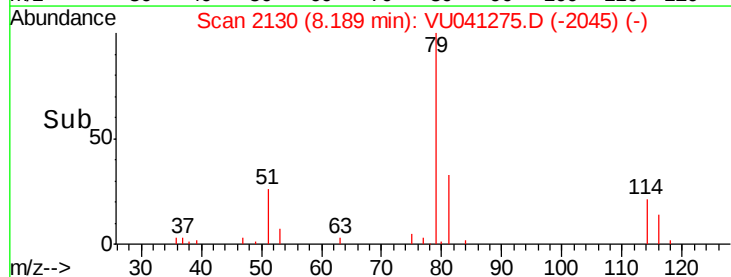
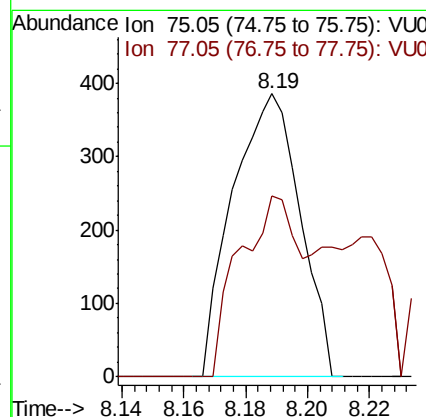
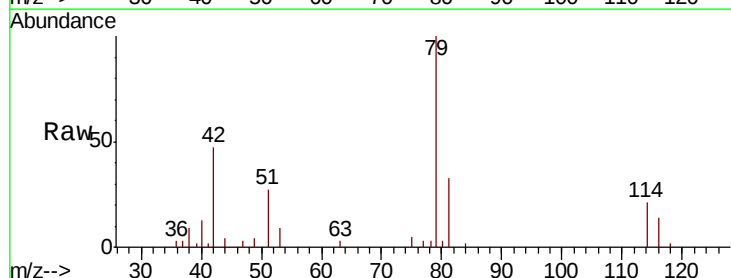
Tot Ion: 75 Resp: 1075
Ion Ratio Lower Upper
75 100
77 43.1 22.7 42.3#

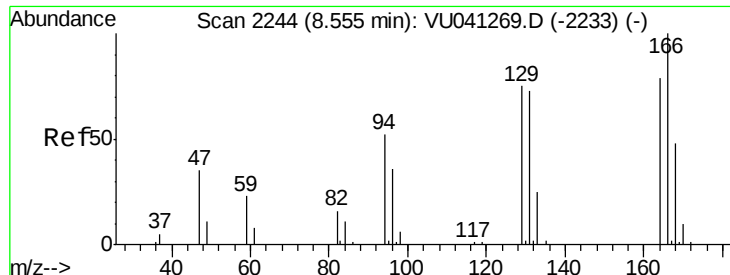


#44

trans-1,3-Dichloropropene
Concen: 0.077 ug/L
RT: 8.19 min Scan# 2130
Delta R.T. -0.03 min
Lab File: VU041275.D
Acq: 17 Nov 2020 12:54

Tgt Ion: 75 Resp: 584
Ion Ratio Lower Upper
75 100
77 63.7 23.3 43.3#





#47

Tetrachloroethene

Concen: 3.559 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. 0.00 min

Lab File: VU041275.D

Acq: 17 Nov 2020 12:54

Instrument :

MSVOA_U

ClientSampleId :

H4427

Tot Ion:164 Resp: 13946

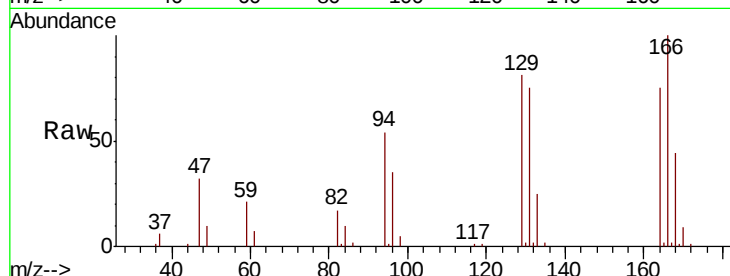
Ion Ratio Lower Upper

164 100

129 107.4 70.3 130.7

131 99.3 70.8 131.4

166 133.2 92.0 170.8

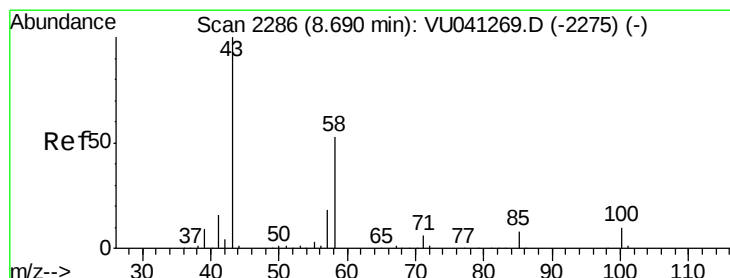
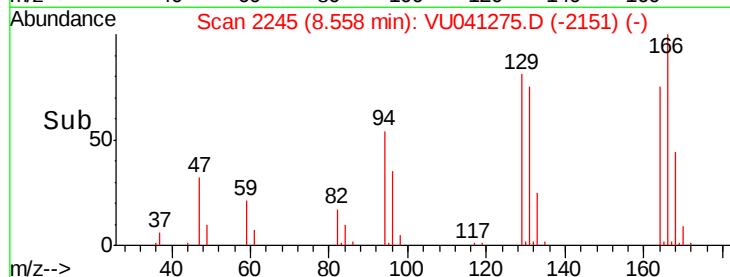
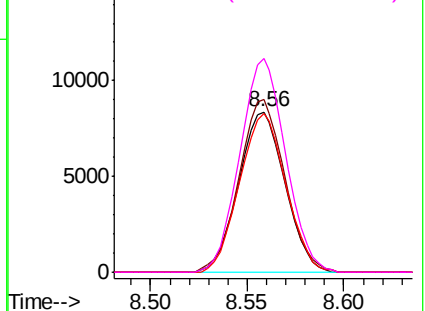


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V



#48

2-Hexanone

Concen: 2.744 ug/L

RT: 8.64 min Scan# 2270

Delta R.T. -0.05 min

Lab File: VU041275.D

Acq: 17 Nov 2020 12:54

Tgt Ion: 43 Resp: 9723

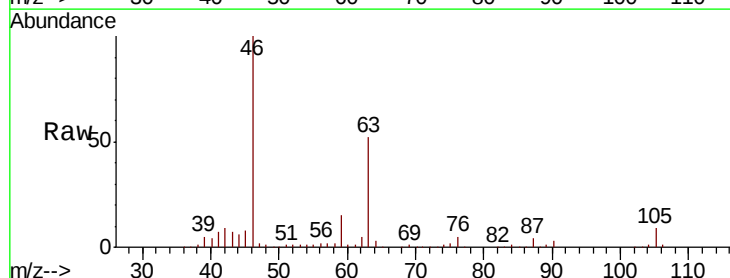
Ion Ratio Lower Upper

43 100

58 32.0 41.4 62.2#

57 30.7 14.6 21.8#

100 0.2 8.3 12.5#

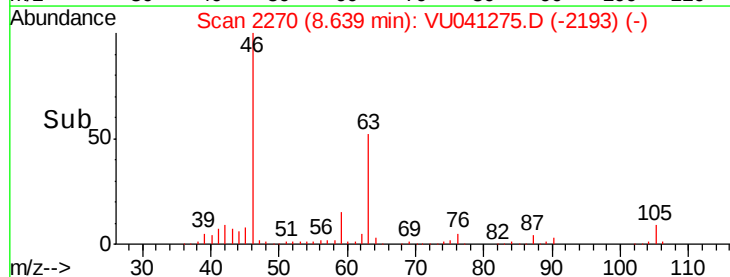
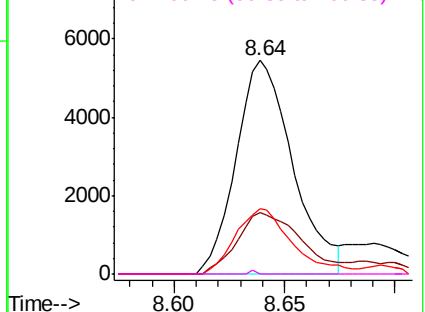


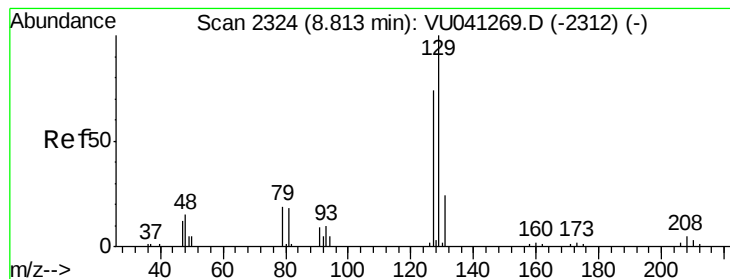
Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

Ion 57.20 (56.90 to 57.90): VU0

Ion 100.15 (99.85 to 100.85): VU0





#49

Dibromochloromethane

Concen: 2.827 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. -0.25 min

Lab File: VU041275.D

Acq: 17 Nov 2020 12:54

Instrument :

MSVOA_U

ClientSampled :

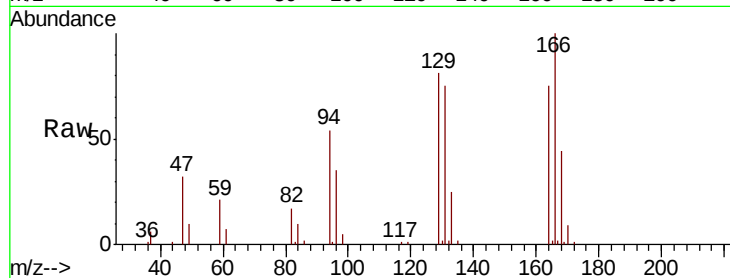
H4427

Tot Ion:129 Resp: 14861

Ion Ratio Lower Upper

129 100

127 0.0 53.4 99.2#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

8.56

10000

8000

6000

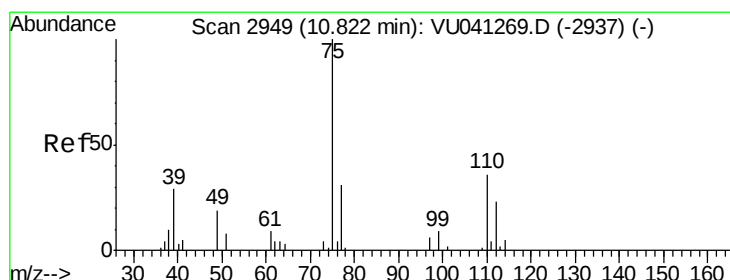
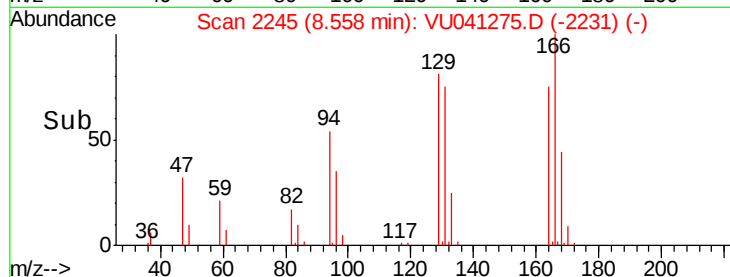
4000

2000

0

8.50 8.55 8.60

Time-->



#59

1,2,3-Trichloropropane

Concen: 0.864 ug/L

RT: 11.81 min Scan# 3256

Delta R.T. 0.99 min

Lab File: VU041275.D

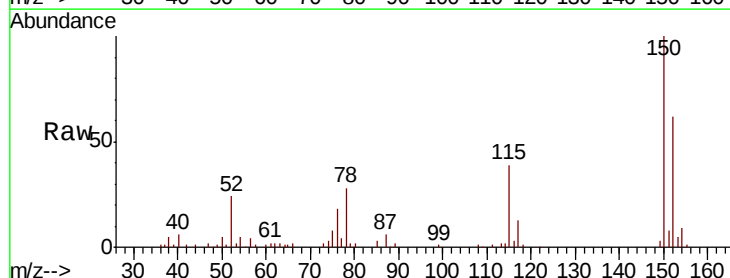
Acq: 17 Nov 2020 12:54

Tgt Ion: 75 Resp: 3907

Ion Ratio Lower Upper

75 100

77 43.2 25.7 38.5#



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

11.81

3000

2500

2000

1500

1000

500

0

11.75 11.80 11.85

Time-->

