

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U102020\
 Data File : VU040845.D
 Acq On : 20 Oct 2020 14:04
 Operator : SY/MD
 Sample : L4419-03
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 COAH0

Quant Time: Oct 20 23:57:30 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR100820WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Oct 20 23:49:45 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	114903	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	118826	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	51107	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	44968	4.72	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	94.40%
7) Chloroethane-d5	1.92	69	40663	5.54	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	110.80%
11) 1,1-Dichloroethene-d2	2.58	63	85719	4.61	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	92.20%
20) 2-Butanone-d5	4.65	46	171919	56.43	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	112.86%
24) Chloroform-d	5.08	84	93530	5.60	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	112.00%
26) 1,2-Dichloroethane-d4	5.72	65	55240	5.43	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	108.60%
32) Benzene-d6	5.74	84	171492	5.35	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	107.00%
36) 1,2-Dichloropropane-d6	6.70	67	59067	5.55	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	111.00%
41) Toluene-d8	7.91	98	138683	4.83	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.60%
43) trans-1,3-Dichloropropene-	8.19	79	22518	5.00	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	100.00%
46) 2-Hexanone-d5	8.64	63	125734	54.13	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	108.26%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	52390	5.49	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	109.80%
64) 1,2-Dichlorobenzene-d4	12.19	152	54578	5.76	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	115.20%

Target Compounds

					Ovalue
3) Chloromethane	1.49	50	5243	0.539 ug/L #	43
5) Vinyl chloride	1.61	62	1849	0.180 ug/L #	1
8) Chloroethane	1.94	64	355	0.054 ug/L #	48
10) 1,1,2-Trichloro-1,2,2-trif	2.58	101	697	0.073 ug/L #	20
12) 1,1-Dichloroethene	2.59	96	26472	3.229 ug/L #	80
13) Acetone	2.65	43	2152	0.911 ug/L	74
18) trans-1,2-Dichloroethene	3.37	96	1037	0.121 ug/L #	73
19) 1,1-Dichloroethane	3.88	63	3973	0.224 ug/L	97
22) cis-1,2-Dichloroethene	4.69	96	147386	15.925 ug/L	95
25) Chloroform	5.11	83	5078	0.280 ug/L	92
29) 1,1,1-Trichloroethane	5.33	97	1751	0.110 ug/L	91
31) Carbon tetrachloride	5.54	117	2964	0.217 ug/L	85
34) Trichloroethene	6.56	95	198648	20.075 ug/L	97
35) Methylcyclohexane	6.70	83	13995	0.997 ug/L #	14
37) 1,2-Dichloropropane	6.70	63	6390	0.601 ug/L #	87
39) cis-1,3-Dichloropropene	7.57	75	1633	0.112 ug/L #	53
44) trans-1,3-Dichloropropene	8.19	75	846	0.063 ug/L	86

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Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 20 23:49:45 2020
Response via : Initial Calibration

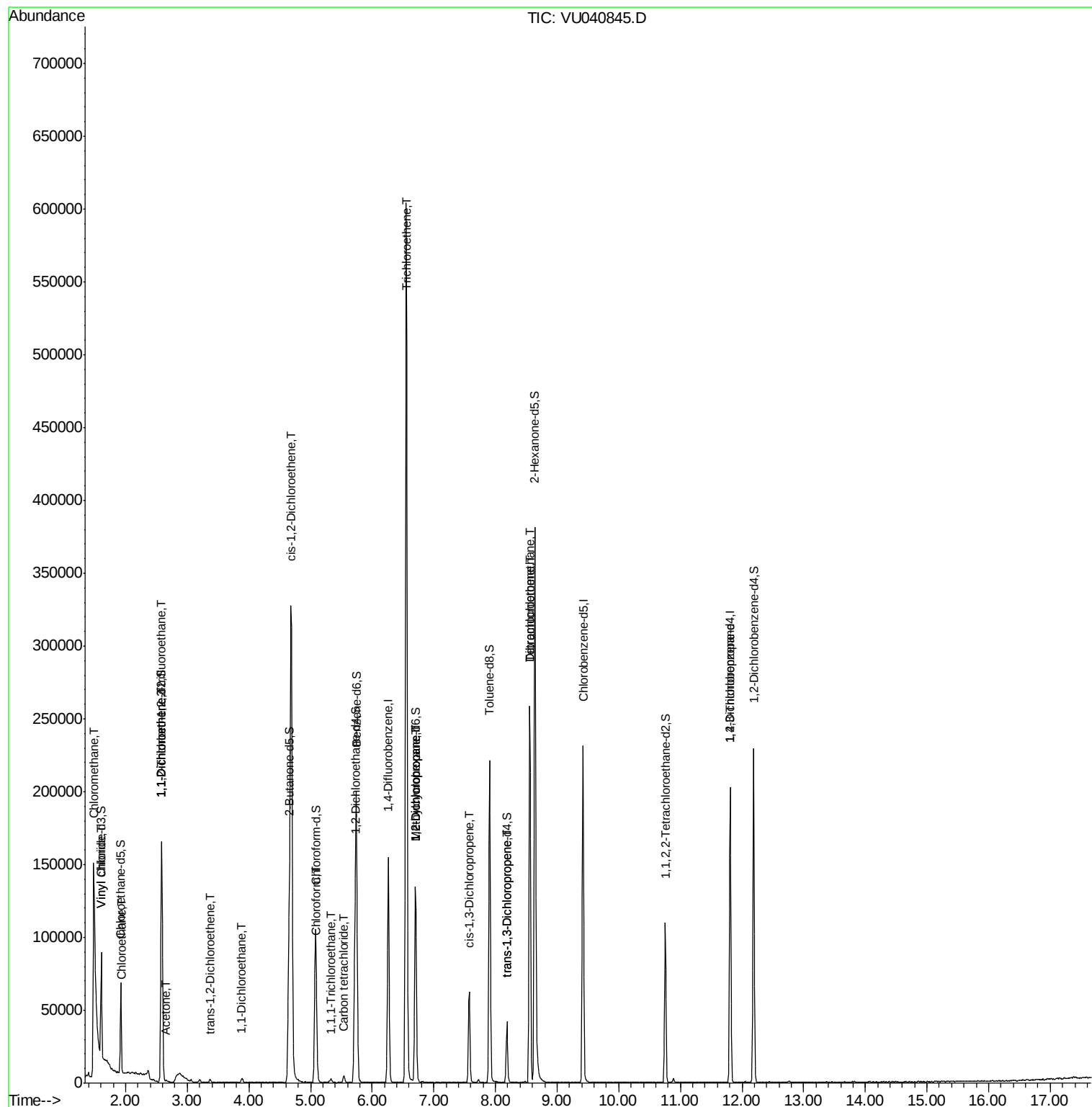
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) Tetrachloroethene	8.56	164	53650	7.599	ug/L	96
49) Dibromochloromethane	8.56	129	52505	5.728	ug/L #	9
59) 1,2,3-Trichloropropane	11.81	75	7217	0.924	ug/L	99

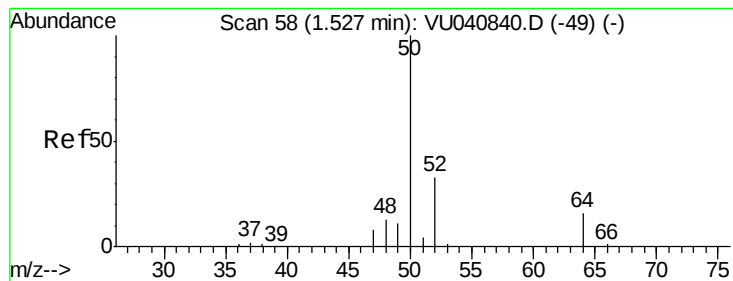
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.539 ug/L

RT: 1.49 min Scan# 46

Delta R.T. -0.04 min

Lab File: VU040845.D

Acq: 20 Oct 2020 14:04

Instrument :

MSVOA_U

ClientSampled :

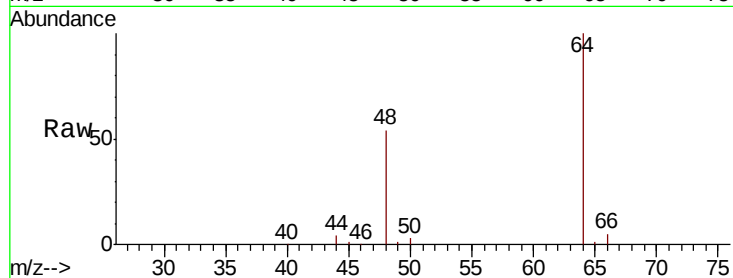
C0AH0

Tot Ion: 50 Resp: 5243

Ion Ratio Lower Upper

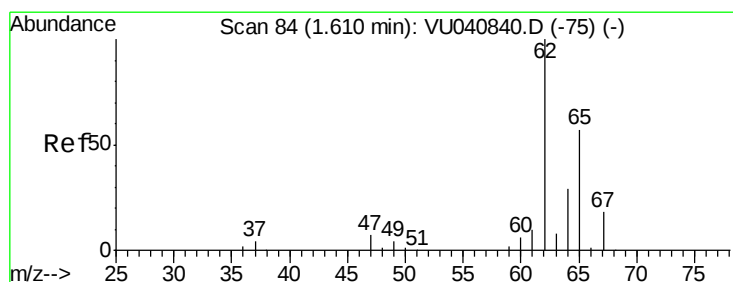
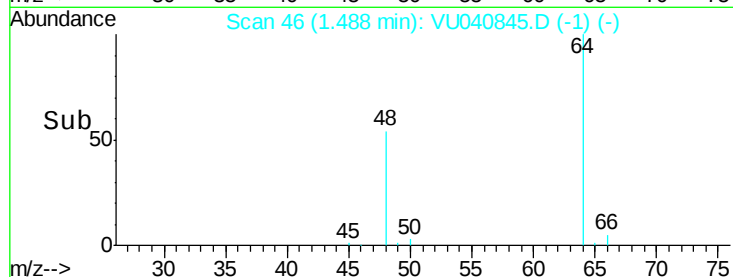
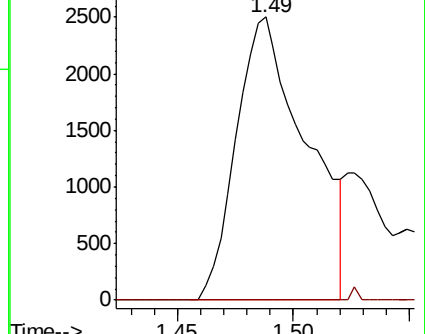
50 100

52 0.0 21.9 40.7#



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0



#5

Vinyl chloride

Concen: 0.180 ug/L

RT: 1.61 min Scan# 84

Delta R.T. -0.00 min

Lab File: VU040845.D

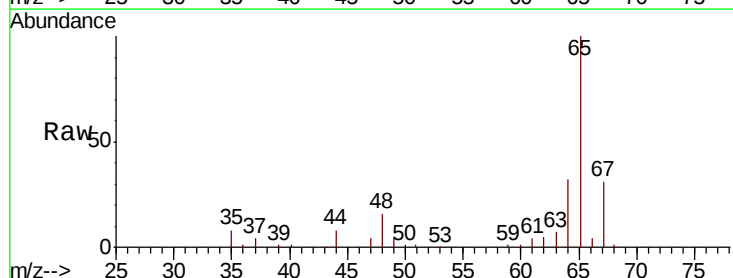
Acq: 20 Oct 2020 14:04

Tgt Ion: 62 Resp: 1849

Ion Ratio Lower Upper

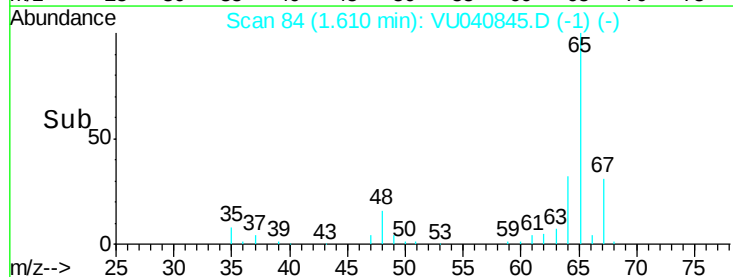
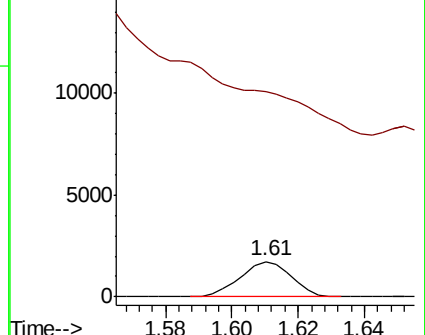
62 100

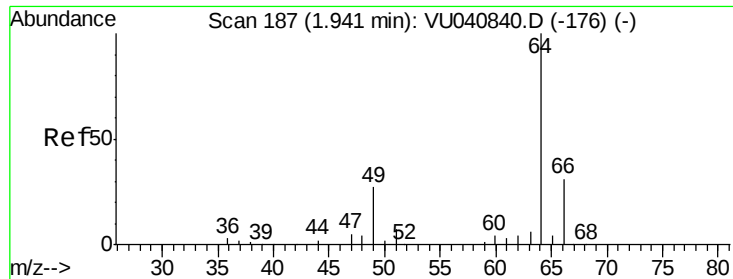
64 577.4 23.7 44.1#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0





#8

Chloroethane

Concen: 0.054 ug/L

RT: 1.94 min Scan# 187

Delta R.T. -0.00 min

Lab File: VU040845.D

Acq: 20 Oct 2020 14:04

Instrument :

MSVOA_U

ClientSampleId :

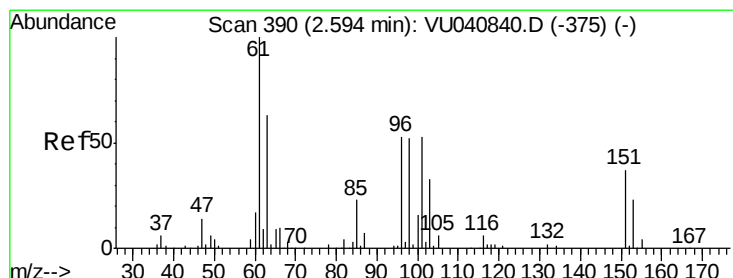
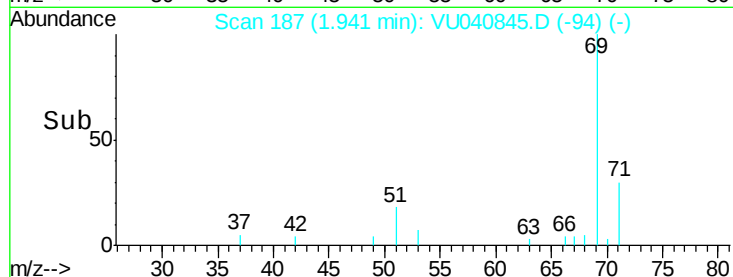
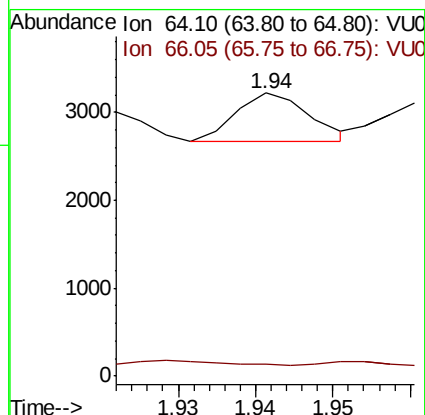
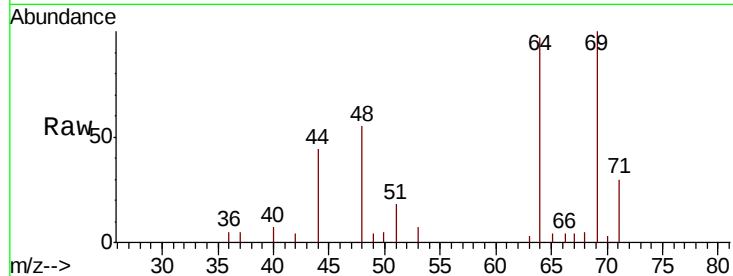
C0AH0

Tot Ion: 64 Resp: 355

Ion Ratio Lower Upper

64 100

66 4.0 23.3 43.3#



#10

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

Concen: 0.073 ug/L

RT: 2.58 min Scan# 385

Delta R.T. -0.02 min

Lab File: VU040845.D

Acq: 20 Oct 2020 14:04

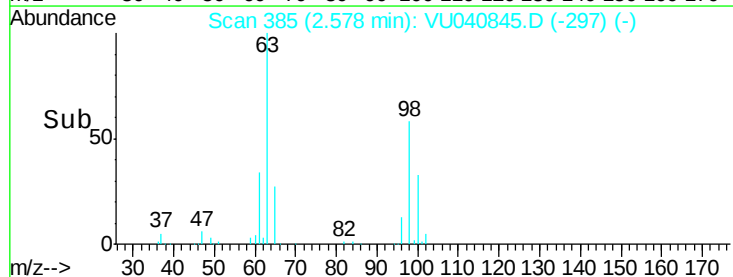
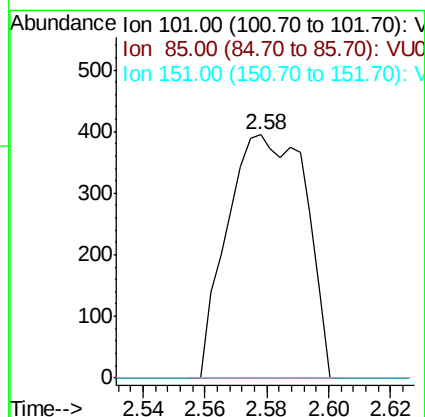
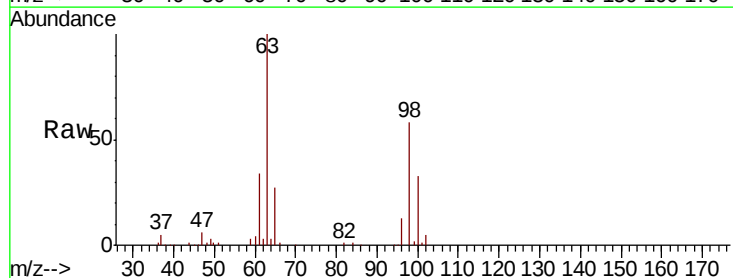
Tgt Ion: 101 Resp: 697

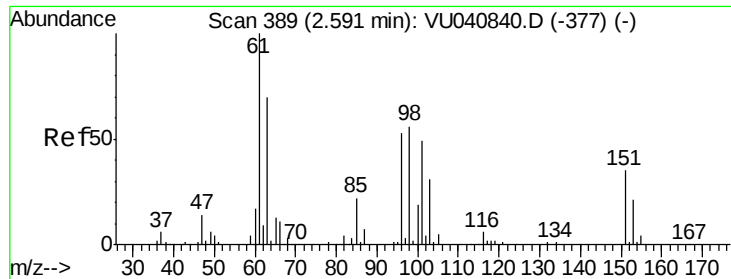
Ion Ratio Lower Upper

101 100

85 0.0 36.7 55.1#

151 0.0 58.0 87.0#





#12

1,1-Dichloroethene

Concen: 3.229 ug/L

RT: 2.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU040845.D

Acq: 20 Oct 2020 14:04

Instrument :

MSVOA_U

ClientSampleId :

C0AH0

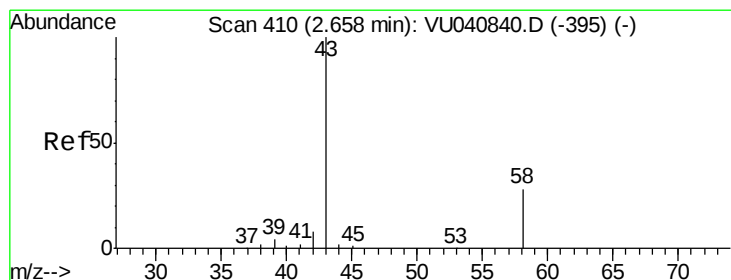
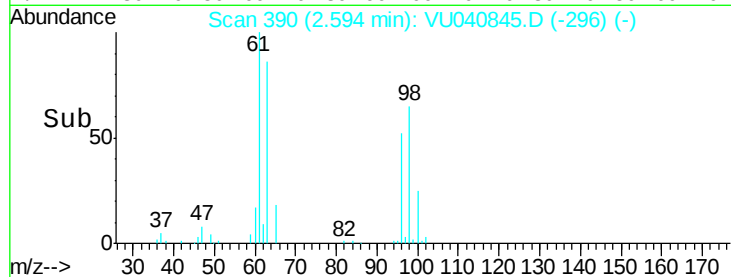
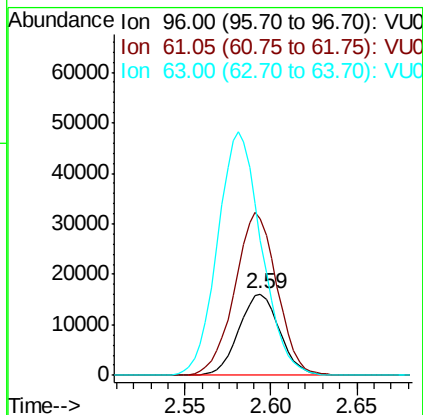
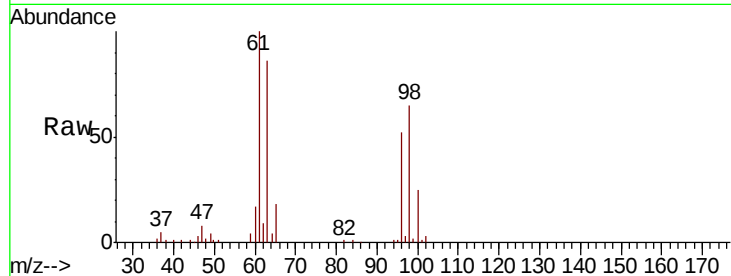
Tot Ion: 96 Resp: 26472

Ion Ratio Lower Upper

96 100

61 193.2 128.8 239.2

63 165.9 84.6 157.2#



#13

Acetone

Concen: 0.911 ug/L

RT: 2.65 min Scan# 408

Delta R.T. -0.01 min

Lab File: VU040845.D

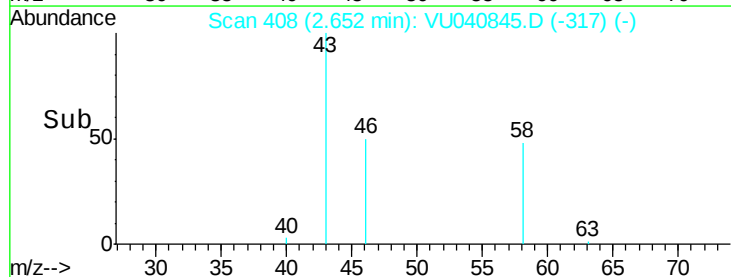
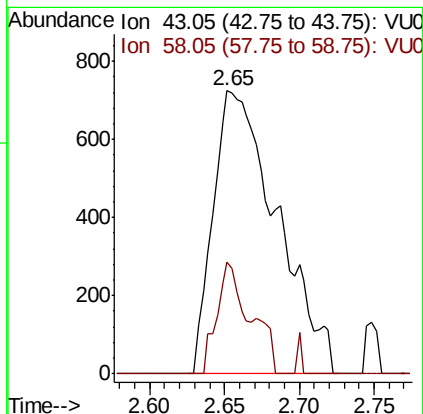
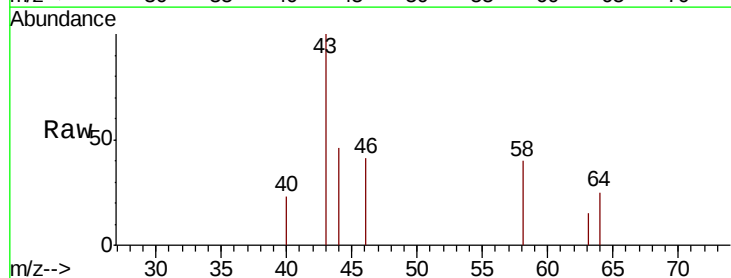
Acq: 20 Oct 2020 14:04

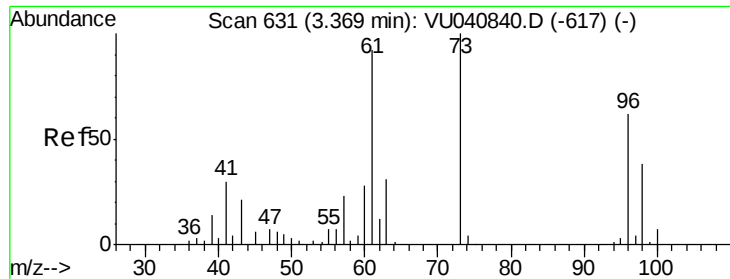
Tgt Ion: 43 Resp: 2152

Ion Ratio Lower Upper

43 100

58 16.0 0.0 60.6





#18

trans-1,2-Dichloroethene

Concen: 0.121 ug/L

RT: 3.37 min Scan# 631

Delta R.T. -0.00 min

Lab File: VU040845.D

Acq: 20 Oct 2020 14:04

Instrument :

MSVOA_U

ClientSampleId :

C0AH0

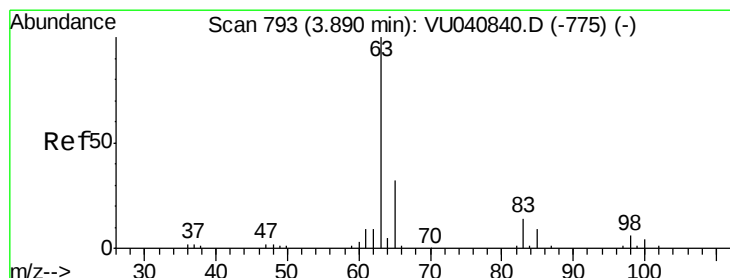
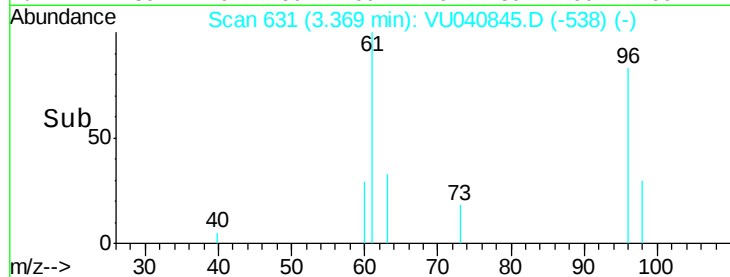
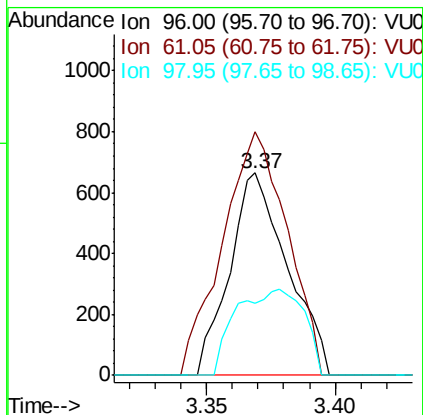
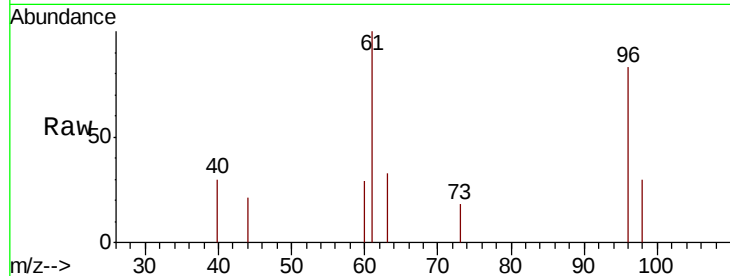
Tot Ion: 96 Resp: 1037

Ion Ratio Lower Upper

96 100

61 120.2 105.9 196.7

98 35.5 43.8 81.3#



#19

1,1-Dichloroethane

Concen: 0.224 ug/L

RT: 3.88 min Scan# 791

Delta R.T. -0.01 min

Lab File: VU040845.D

Acq: 20 Oct 2020 14:04

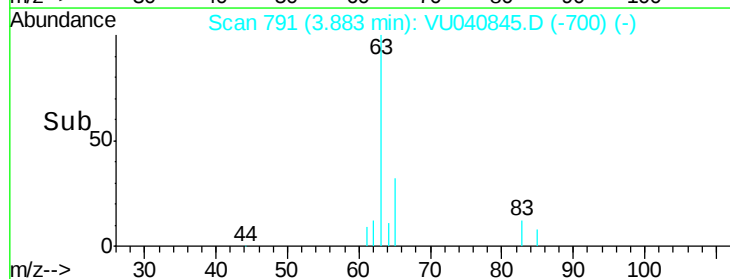
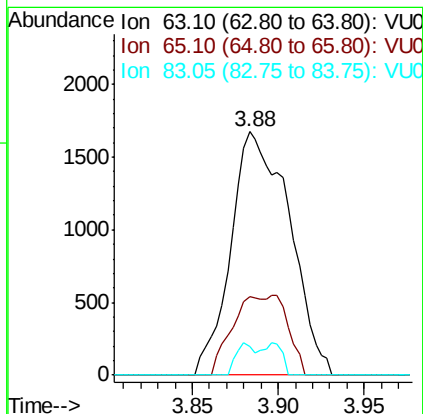
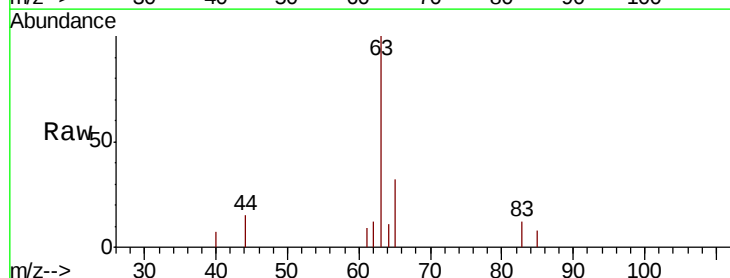
Tgt Ion: 63 Resp: 3973

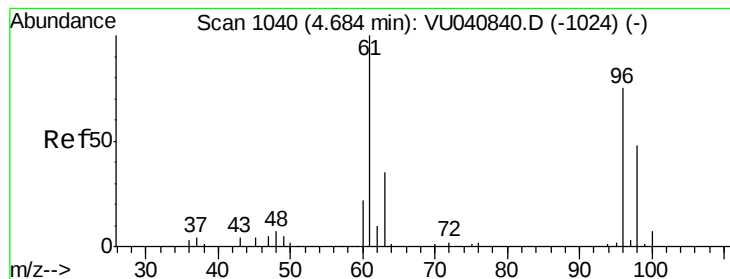
Ion Ratio Lower Upper

63 100

65 32.3 21.9 40.7

83 11.9 9.6 17.8





#22

cis-1,2-Dichloroethene

Concen: 15.925 ug/L

RT: 4.69 min Scan# 1041

Delta R.T. 0.00 min

Lab File: VU040845.D

Acq: 20 Oct 2020 14:04

Instrument :

MSVOA_U

ClientSampleId :

C0AH0

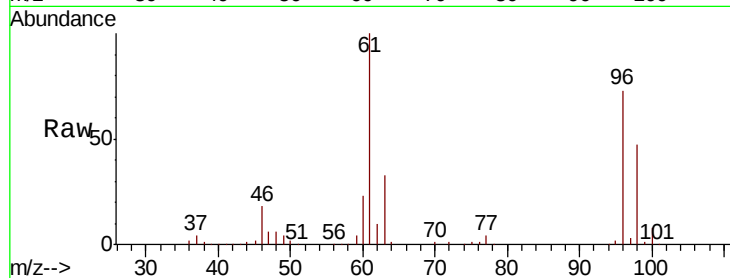
Tot Ion: 96 Resp: 147386

Ion Ratio Lower Upper

96 100

61 136.9 99.8 185.4

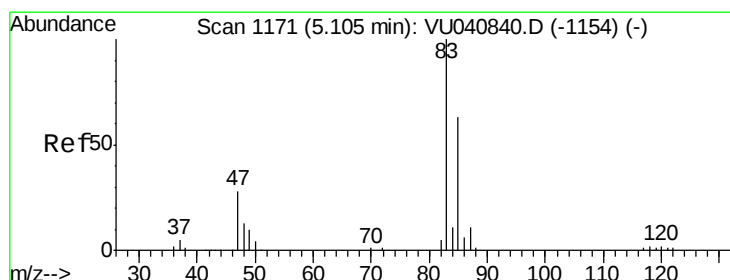
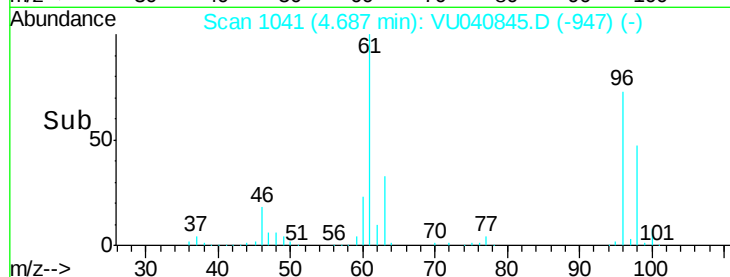
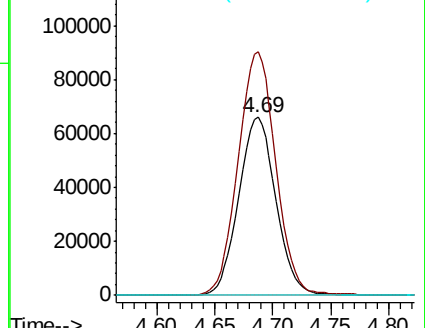
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU040845.D (-947) (-)

Ion 61.05 (60.75 to 61.75): VU040845.D (-947) (-)

Ion 68.15 (67.85 to 68.85): VU040845.D (-947) (-)



#25

Chloroform

Concen: 0.280 ug/L

RT: 5.11 min Scan# 1171

Delta R.T. -0.00 min

Lab File: VU040845.D

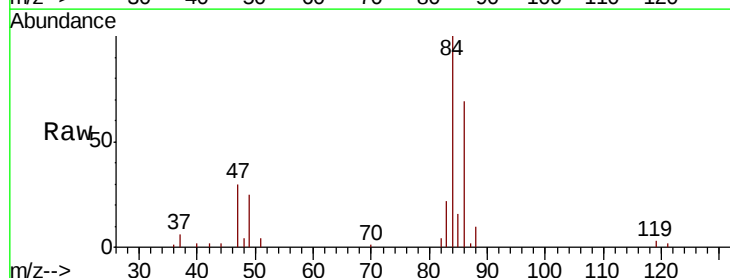
Acq: 20 Oct 2020 14:04

Tgt Ion: 83 Resp: 5078

Ion Ratio Lower Upper

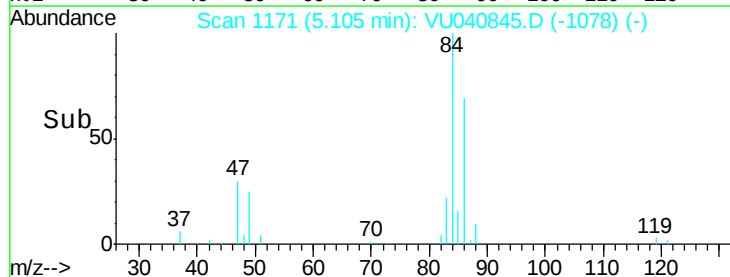
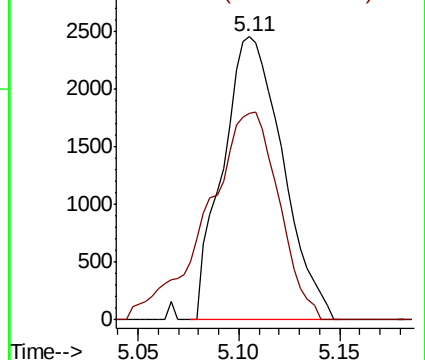
83 100

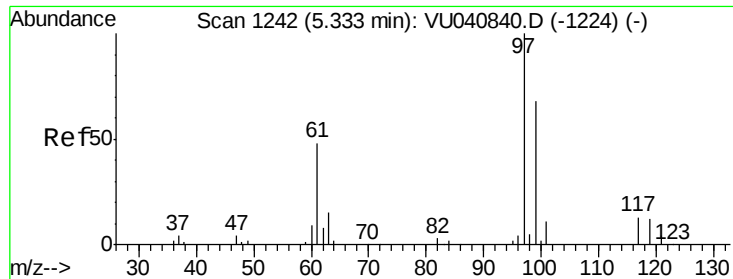
85 73.1 46.5 86.5



Abundance Ion 83.05 (82.75 to 83.75): VU040845.D (-1078) (-)

Ion 85.00 (84.70 to 85.70): VU040845.D (-1078) (-)

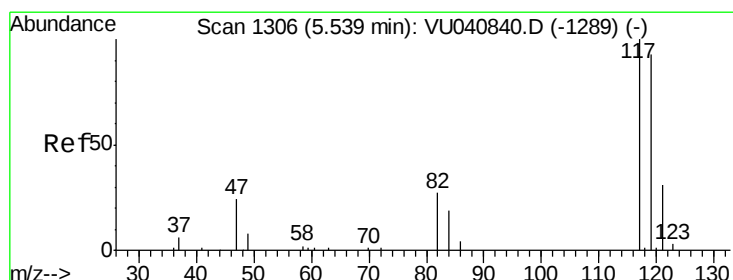
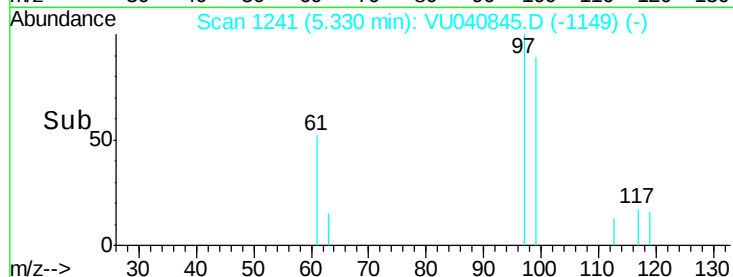
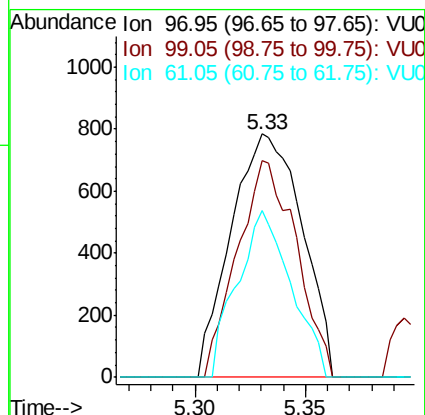
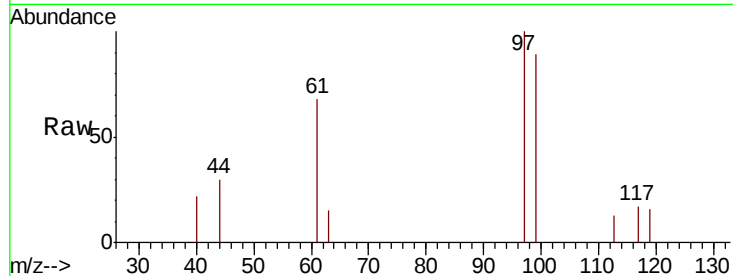




#29
 1,1,1-Trichloroethane
 Concen: 0.110 ug/L
 RT: 5.33 min Scan# 1241
 Delta R.T. -0.00 min
 Lab File: VU040845.D
 Acq: 20 Oct 2020 14:04

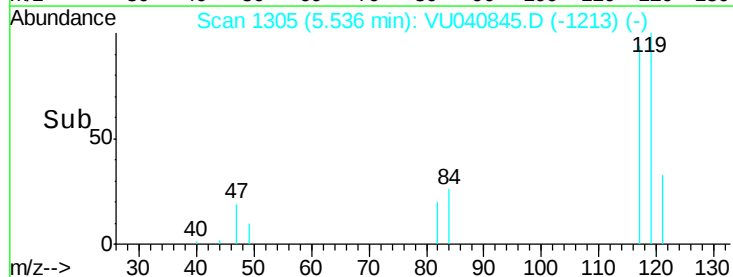
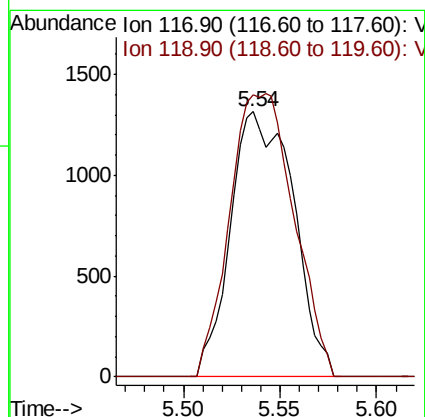
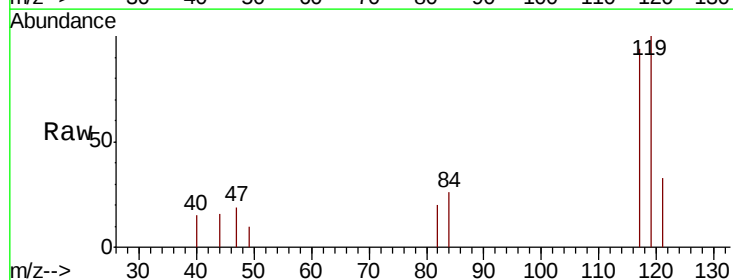
Instrument :
 MSVOA_U
 ClientSampled :
 C0AH0

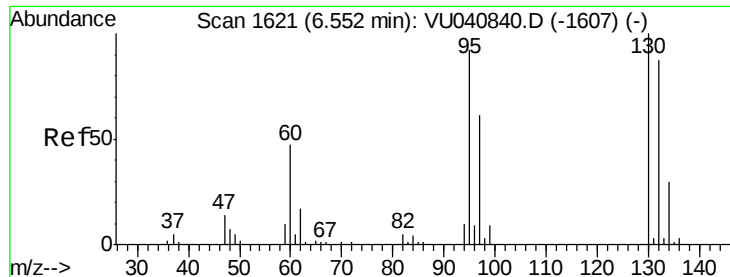
Tot Ion: 97 Resp: 1751
 Ion Ratio Lower Upper
 97 100
 99 74.1 51.3 76.9
 61 51.9 39.4 59.2



#31
 Carbon tetrachloride
 Concen: 0.217 ug/L
 RT: 5.54 min Scan# 1305
 Delta R.T. -0.00 min
 Lab File: VU040845.D
 Acq: 20 Oct 2020 14:04

Tgt Ion: 117 Resp: 2964
 Ion Ratio Lower Upper
 117 100
 119 109.4 76.2 114.2





#34

Trichloroethene

Concen: 20.075 ug/L

RT: 6.56 min Scan# 1622

Delta R.T. 0.00 min

Lab File: VU040845.D

Acq: 20 Oct 2020 14:04

Instrument :

MSVOA_U

ClientSampleId :

C0AH0

Tot Ion: 95 Resp: 198648

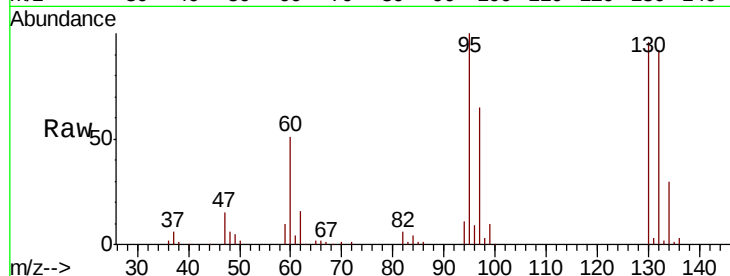
Ion Ratio Lower Upper

95 100

97 65.1 45.5 84.5

132 92.1 67.5 125.4

130 95.7 69.9 129.9

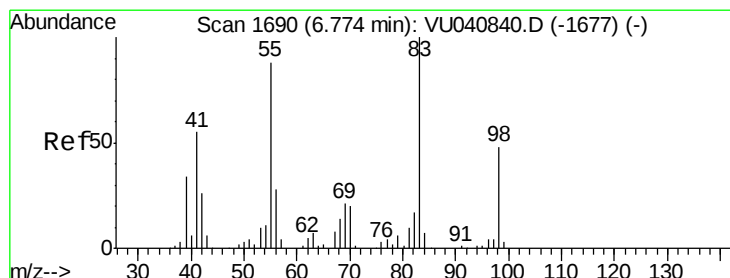
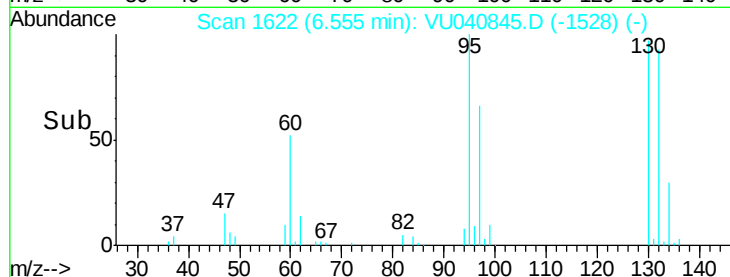
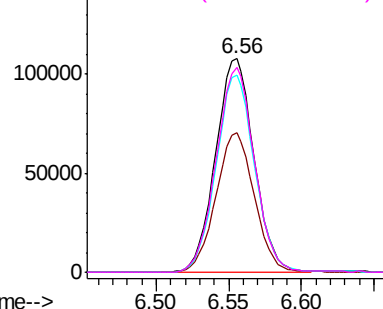


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 0.997 ug/L

RT: 6.70 min Scan# 1668

Delta R.T. -0.07 min

Lab File: VU040845.D

Acq: 20 Oct 2020 14:04

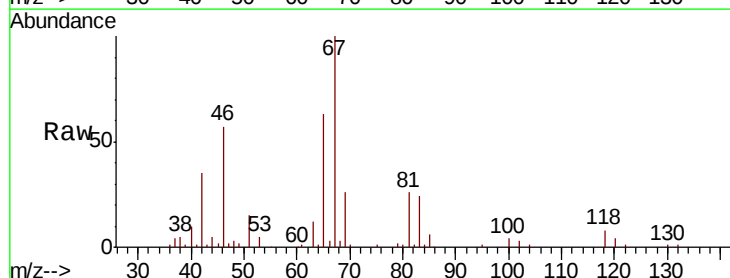
Tgt Ion: 83 Resp: 13995

Ion Ratio Lower Upper

83 100

55 0.3 70.7 106.1#

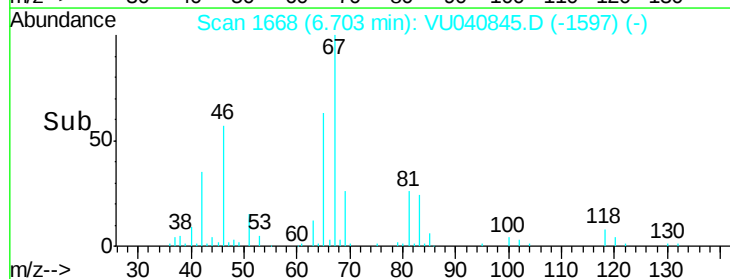
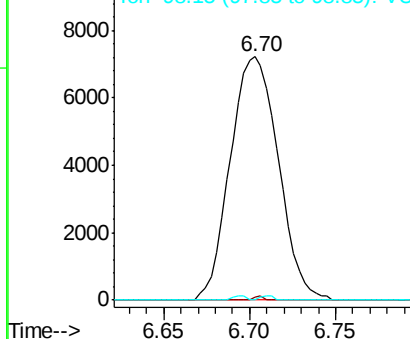
98 0.0 38.4 57.6#

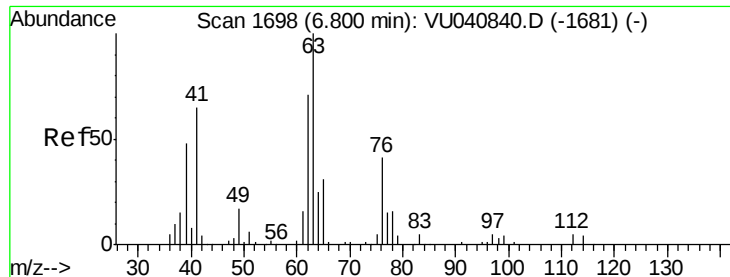


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

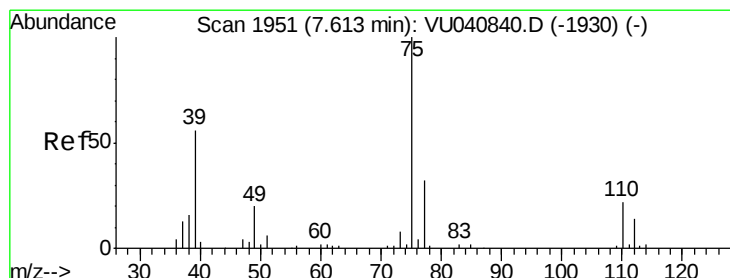
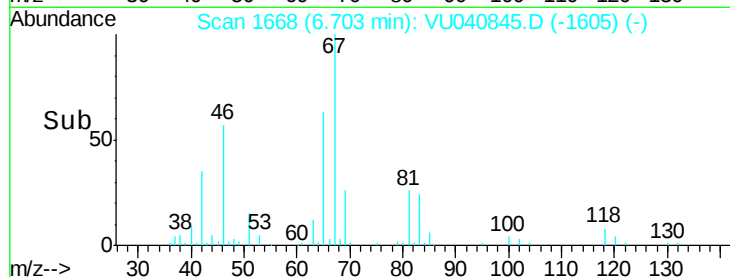
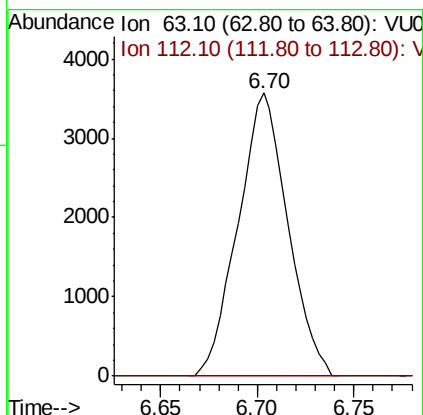
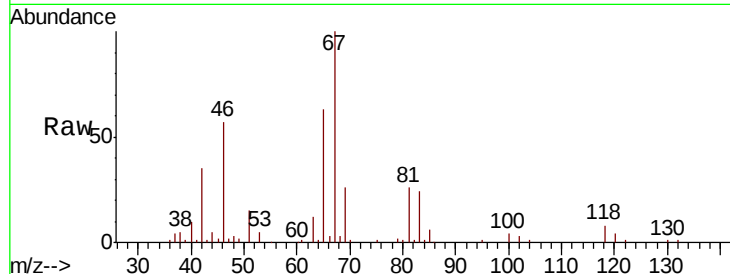




#37
 1,2-Dichloropropane
 Concen: 0.601 ug/L
 RT: 6.70 min Scan# 1668
 Delta R.T. -0.10 min
 Lab File: VU040845.D
 Acq: 20 Oct 2020 14:04

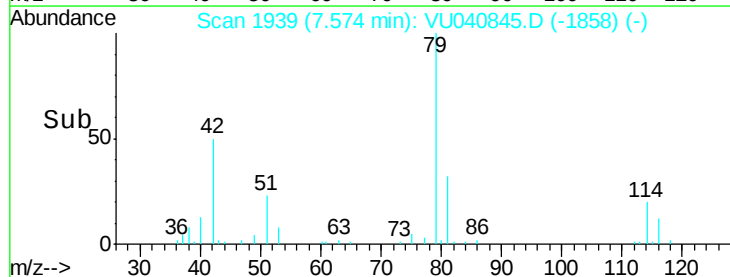
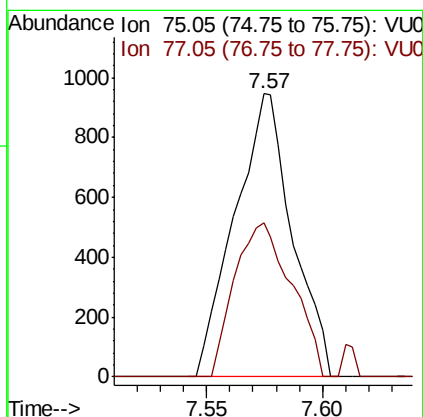
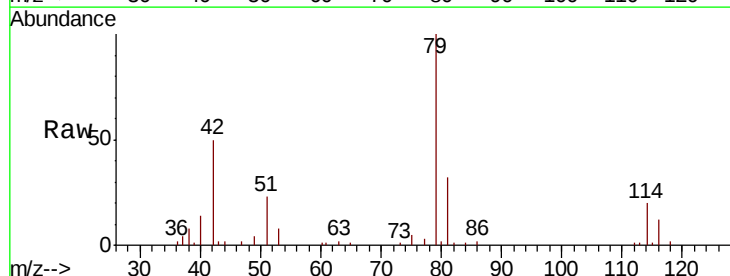
Instrument :
 MSVOA_U
 ClientSampleId :
 C0AH0

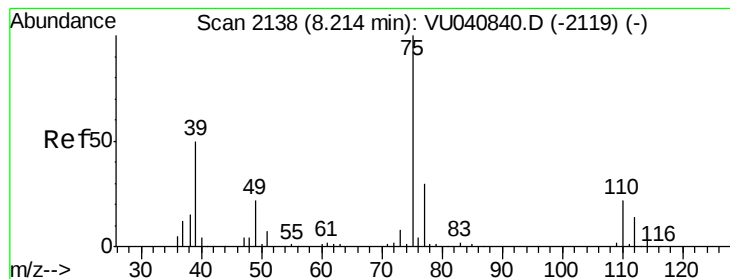
Tot Ion: 63 Resp: 6390
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.5 5.3#



#39
 cis-1,3-Dichloropropene
 Concen: 0.112 ug/L
 RT: 7.57 min Scan# 1939
 Delta R.T. -0.04 min
 Lab File: VU040845.D
 Acq: 20 Oct 2020 14:04

Tgt Ion: 75 Resp: 1633
 Ion Ratio Lower Upper
 75 100
 77 54.4 20.5 38.1#





#44

trans-1,3-Dichloropropene

Concen: 0.063 ug/L

RT: 8.19 min Scan# 2129

Delta R.T. -0.03 min

Lab File: VU040845.D

Acq: 20 Oct 2020 14:04

Instrument :

MSVOA_U

ClientSampleId :

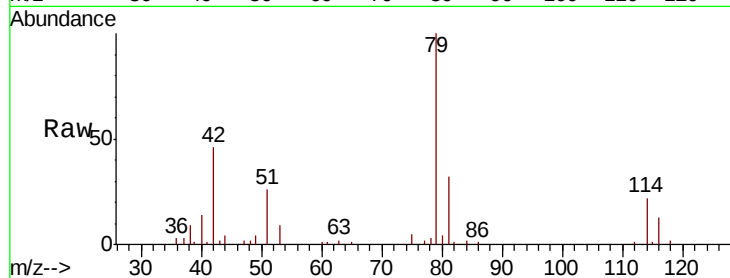
C0AH0

Tot Ion: 75 Resp: 846

Ion Ratio Lower Upper

75 100

77 36.9 20.4 38.0



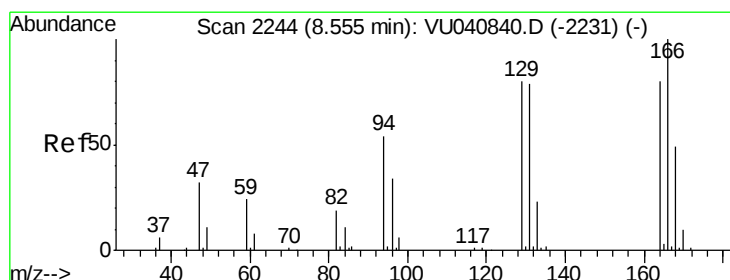
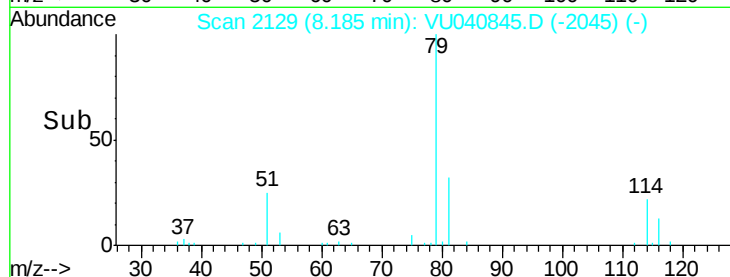
Abundance Ion 75.05 (74.75 to 75.75): VU040845.D (-2045) (-)

Ion 77.05 (76.75 to 77.75): VU040845.D (-2045) (-)

8.19

8.16 8.18 8.20

Time-->



#47

Tetrachloroethene

Concen: 7.599 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. 0.00 min

Lab File: VU040845.D

Acq: 20 Oct 2020 14:04

Tgt Ion:164 Resp: 53650

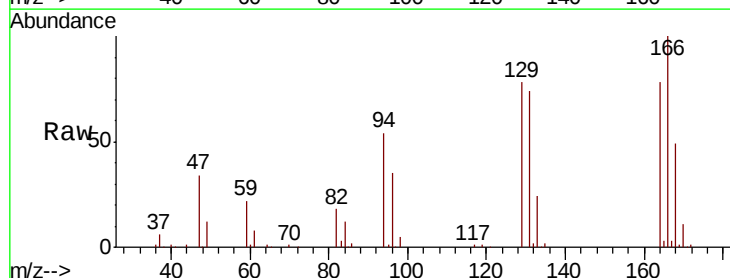
Ion Ratio Lower Upper

164 100

129 100.6 68.8 127.8

131 95.1 66.7 123.9

166 128.6 83.9 155.7



Abundance Ion 163.90 (163.60 to 164.60): VU040845.D (-2151) (-)

Ion 128.95 (128.65 to 129.65): VU040845.D (-2151) (-)

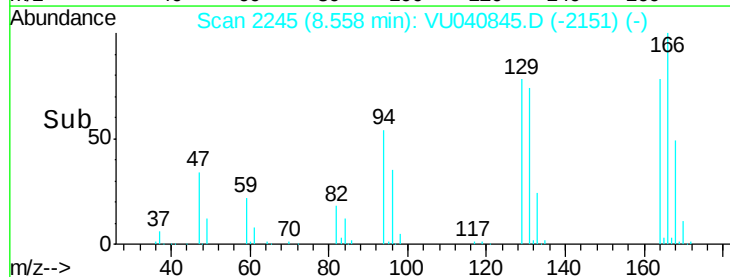
Ion 130.95 (130.65 to 131.65): VU040845.D (-2151) (-)

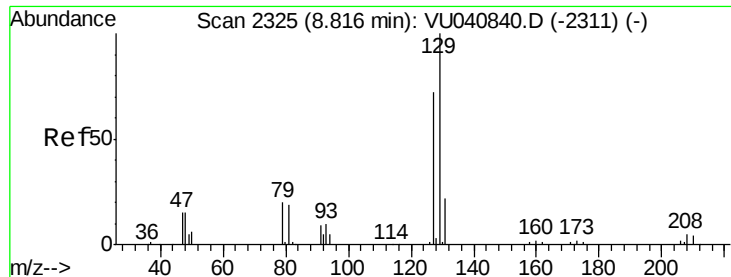
Ion 165.90 (165.60 to 166.60): VU040845.D (-2151) (-)

8.56

8.50 8.55 8.60

Time-->





#49

Dibromochloromethane

Concen: 5.728 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. -0.26 min

Lab File: VU040845.D

Acq: 20 Oct 2020 14:04

Instrument :

MSVOA_U

ClientSampleId :

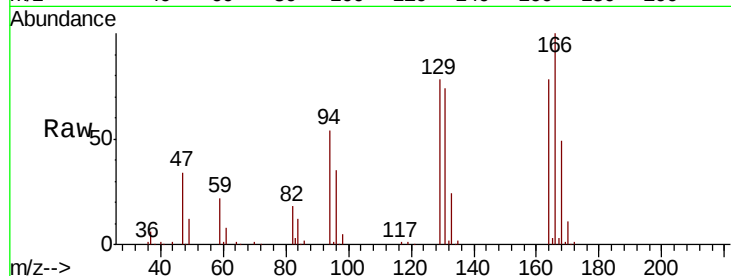
C0AH0

Tot Ion:129 Resp: 52505

Ion Ratio Lower Upper

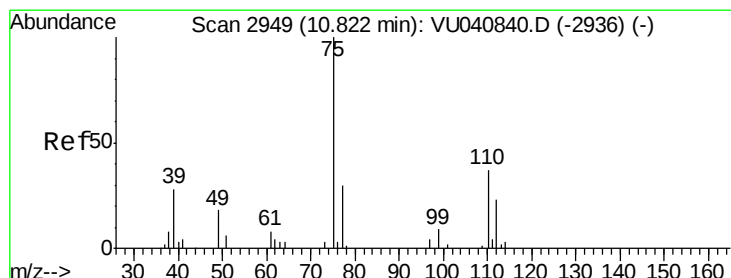
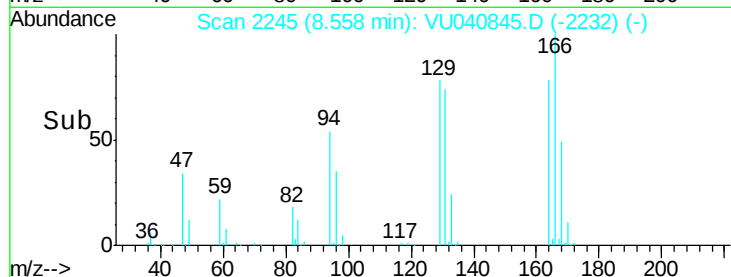
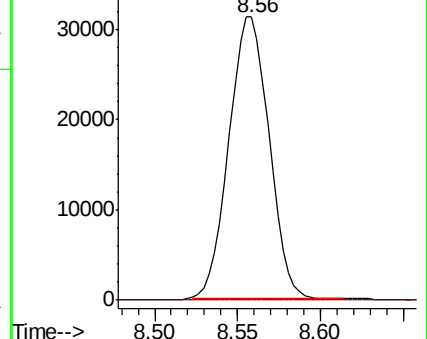
129 100

127 0.0 55.8 103.6#



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: 0.924 ug/L

RT: 11.81 min Scan# 3256

Delta R.T. 0.99 min

Lab File: VU040845.D

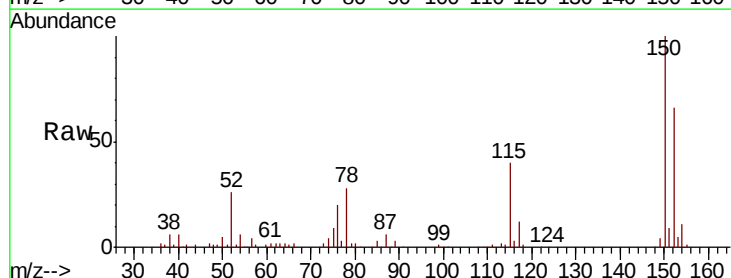
Acq: 20 Oct 2020 14:04

Tgt Ion: 75 Resp: 7217

Ion Ratio Lower Upper

75 100

77 33.7 26.4 39.6



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

