

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U101620\
 Data File : VU040756.D
 Acq On : 16 Oct 2020 18:38
 Operator : SY/MD
 Sample : L4419-20
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C0AK3

Quant Time: Oct 16 23:43:16 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR100820WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Oct 16 23:38:52 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	108939	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	113974	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	47403	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	38155	4.23	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	84.60%
7) Chloroethane-d5	1.92	69	36225	5.20	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	104.00%
11) 1,1-Dichloroethene-d2	2.58	63	70213	3.98	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	79.60%
20) 2-Butanone-d5	4.67	46	161767	56.00	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	112.00%
24) Chloroform-d	5.08	84	86896	5.49	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	109.80%
26) 1,2-Dichloroethane-d4	5.72	65	52766	5.47	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	109.40%
32) Benzene-d6	5.74	84	151792	4.94	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.80%
36) 1,2-Dichloropropane-d6	6.70	67	52262	5.12	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	102.40%
41) Toluene-d8	7.91	98	119037	4.32	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	86.40%
43) trans-1,3-Dichloropropene-	8.19	79	18493	4.28	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	85.60%
46) 2-Hexanone-d5	8.64	63	107311	48.17	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	96.34%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	47135	5.15	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	103.00%
64) 1,2-Dichlorobenzene-d4	12.19	152	49017	5.58	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	111.60%

Target Compounds

					Ovalue
3) Chloromethane	1.52	50	2149	0.233 ug/L #	54
5) Vinyl chloride	1.61	62	574	0.059 ug/L #	1
8) Chloroethane	1.97	64	3110	0.502 ug/L #	51
10) 1,1,2-Trichloro-1,2,2-trif	2.58	101	557	0.061 ug/L #	20
12) 1,1-Dichloroethene	2.59	96	13603	1.750 ug/L #	43
14) Carbon disulfide	2.81	76	20205	0.929 ug/L	98
17) Methyl tert-butyl Ether	3.39	73	1913	0.087 ug/L #	85
19) 1,1-Dichloroethane	3.88	63	3270	0.194 ug/L #	84
22) cis-1,2-Dichloroethene	4.69	96	94765	10.800 ug/L	95
25) Chloroform	5.10	83	1321	0.077 ug/L	96
29) 1,1,1-Trichloroethane	5.33	97	3047	0.199 ug/L	97
34) Trichloroethene	6.56	95	38352	4.041 ug/L	96
35) Methylcyclohexane	6.70	83	12636	0.939 ug/L #	14
37) 1,2-Dichloropropane	6.71	63	6535	0.641 ug/L #	87
39) cis-1,3-Dichloropropene	7.57	75	1320	0.095 ug/L #	78
44) trans-1,3-Dichloropropene	8.18	75	817	0.064 ug/L #	60
47) Tetrachloroethene	8.56	164	3914	0.578 ug/L	81

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Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Oct 16 23:38:52 2020
Response via : Initial Calibration

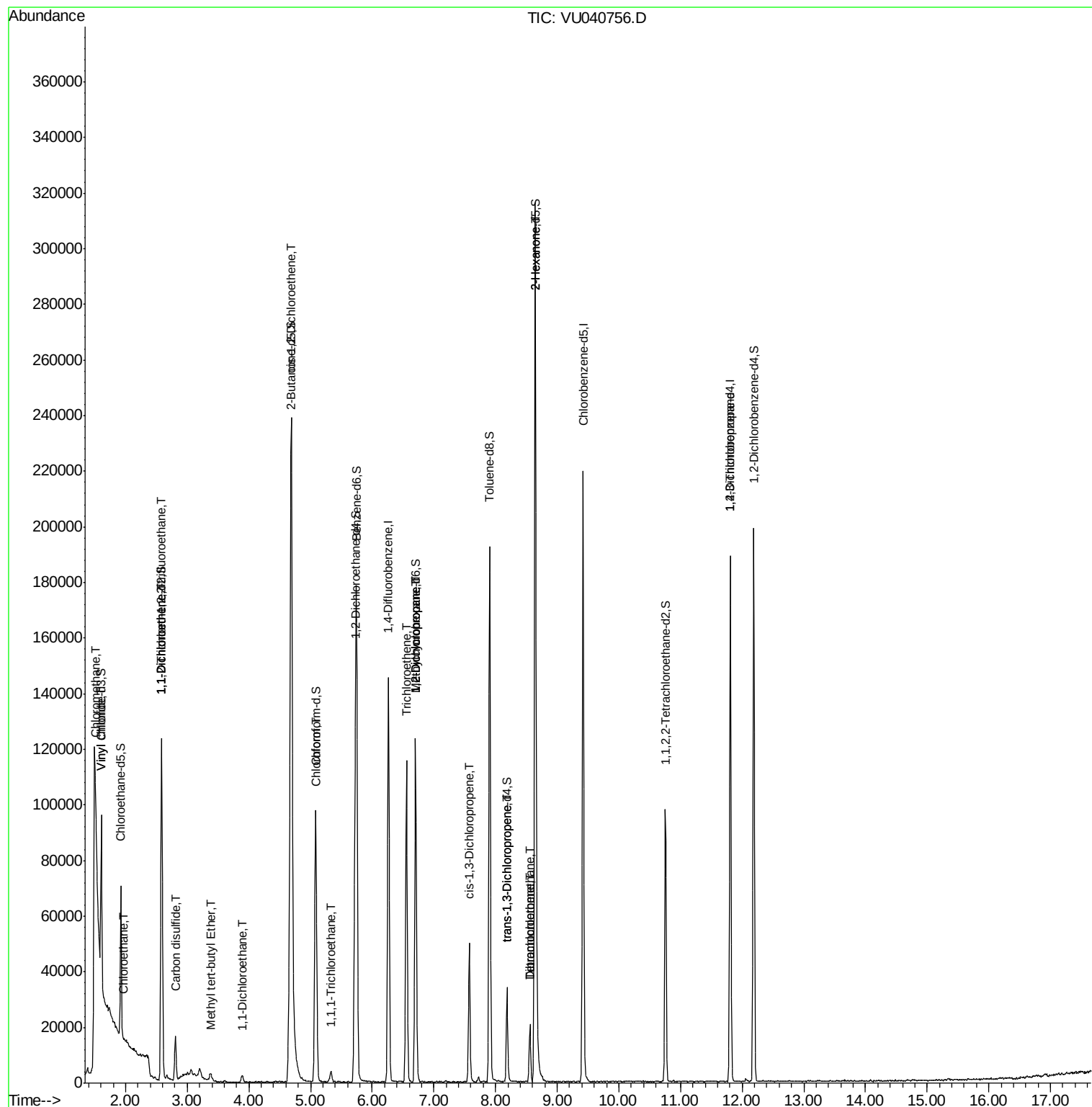
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 2-Hexanone	8.65	43	15264	2.521	ug/L #	77
49) Dibromochloromethane	8.55	129	4552	0.518	ug/L #	9
59) 1,2,3-Trichloropropane	11.81	75	6409	0.855	ug/L	98

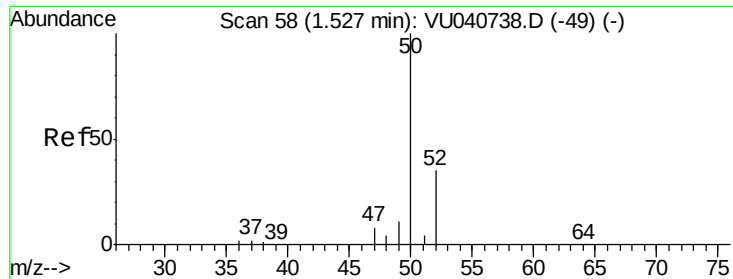
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.233 ug/L

RT: 1.52 min Scan# 56

Delta R.T. -0.01 min

Lab File: VU040756.D

Acq: 16 Oct 2020 18:38

Instrument :

MSVOA_U

ClientSampled :

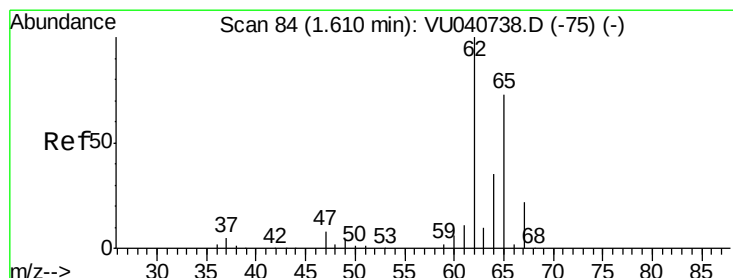
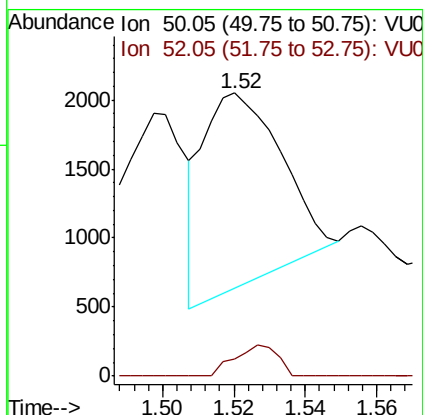
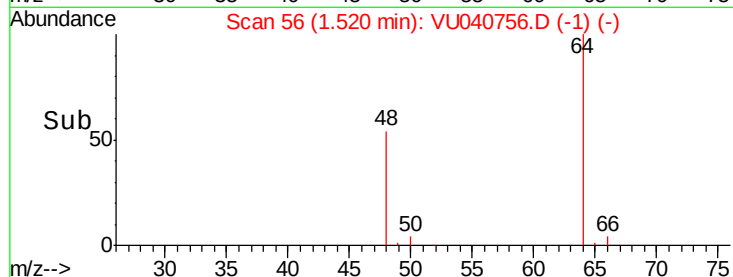
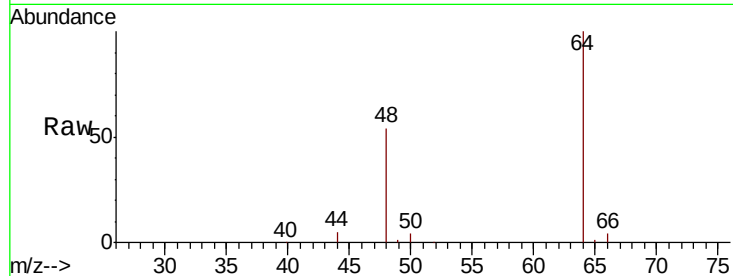
C0AK3

Tot Ion: 50 Resp: 2149

Ion Ratio Lower Upper

50 100

52 5.9 21.9 40.7#



#5

Vinyl chloride

Concen: 0.059 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU040756.D

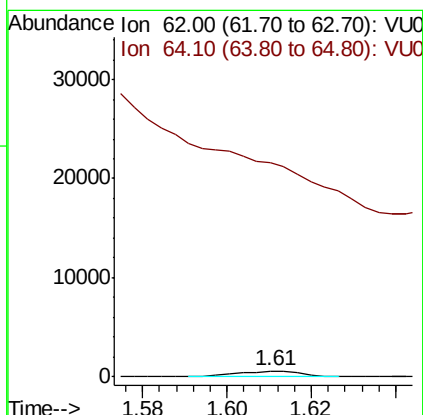
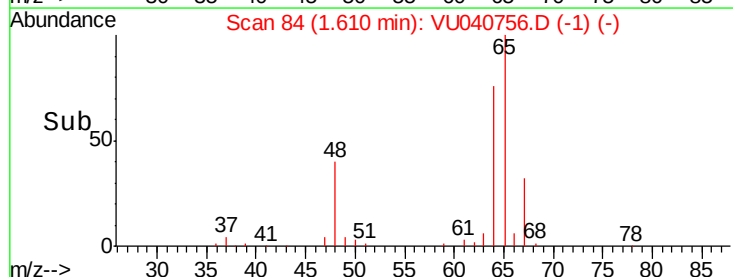
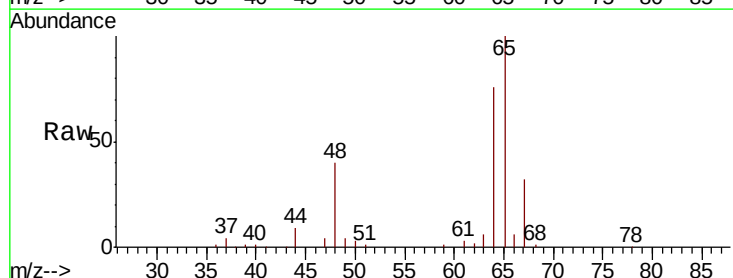
Acq: 16 Oct 2020 18:38

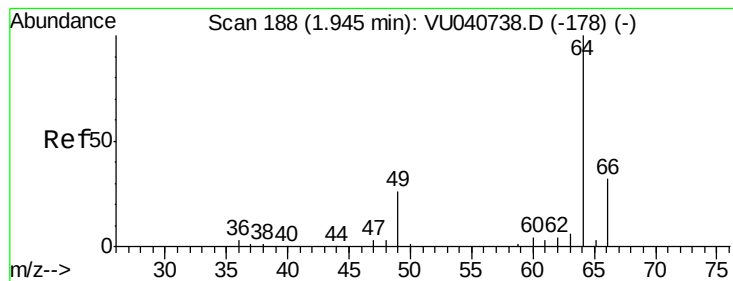
Tgt Ion: 62 Resp: 574

Ion Ratio Lower Upper

62 100

64 3735.2 23.7 44.1#





#8

Chloroethane

Concen: 0.502 ug/L

RT: 1.97 min Scan# 197

Delta R.T. 0.03 min

Lab File: VU040756.D

Acq: 16 Oct 2020 18:38

Instrument :

MSVOA_U

ClientSampleId :

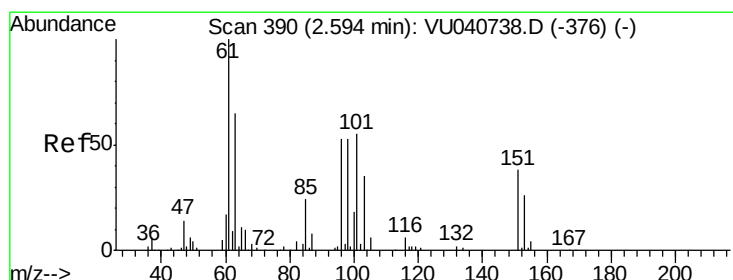
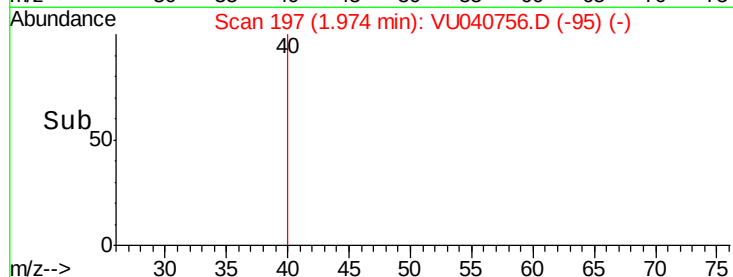
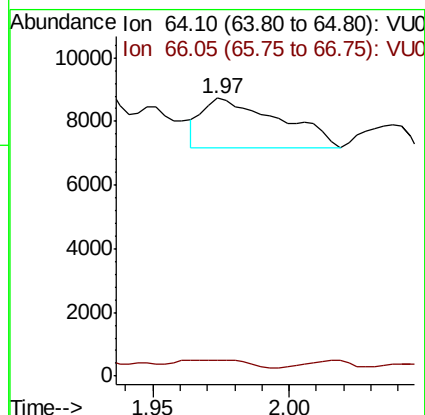
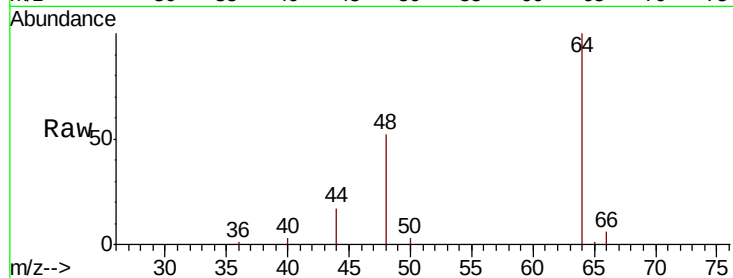
C0AK3

Tot Ion: 64 Resp: 3110

Ion Ratio Lower Upper

64 100

66 5.7 23.3 43.3#



#10

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

Concen: 0.061 ug/L

RT: 2.58 min Scan# 387

Delta R.T. -0.01 min

Lab File: VU040756.D

Acq: 16 Oct 2020 18:38

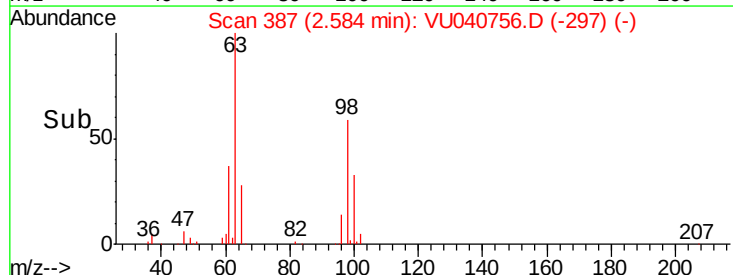
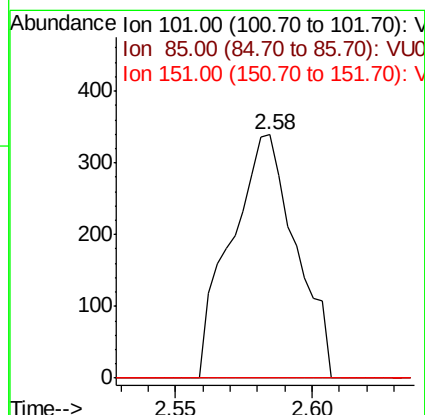
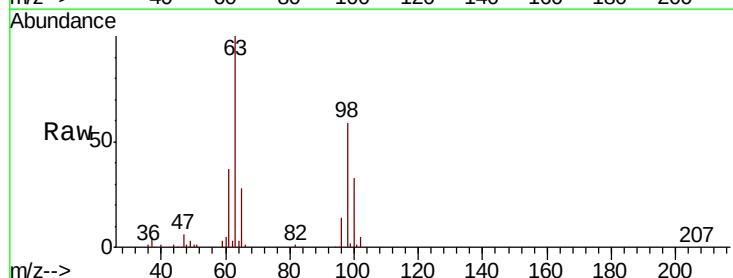
Tgt Ion: 101 Resp: 557

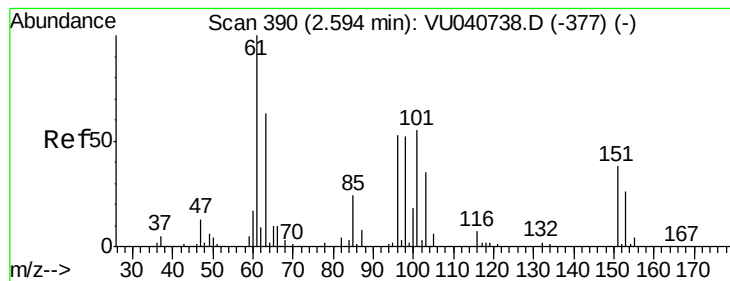
Ion Ratio Lower Upper

101 100

85 0.0 36.7 55.1#

151 0.0 58.0 87.0#





#12

1,1-Dichloroethene

Concen: 1.750 ug/L

RT: 2.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU040756.D

Acq: 16 Oct 2020 18:38

Instrument :

MSVOA_U

ClientSampleId :

C0AK3

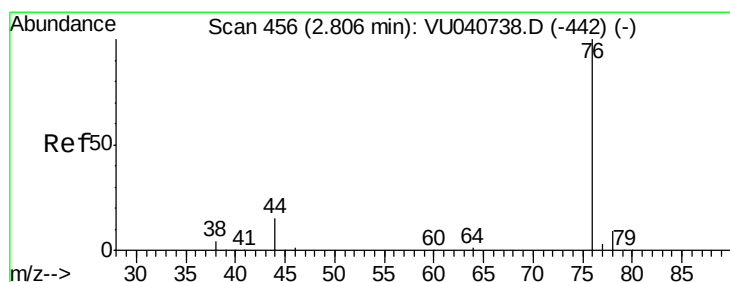
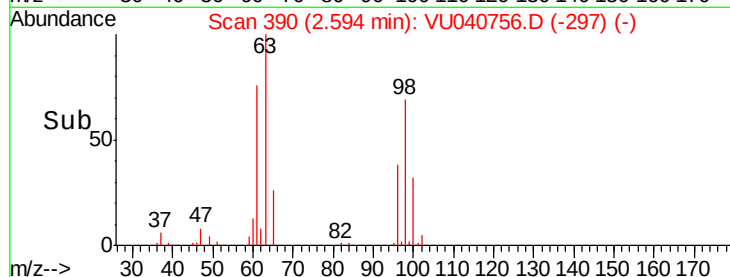
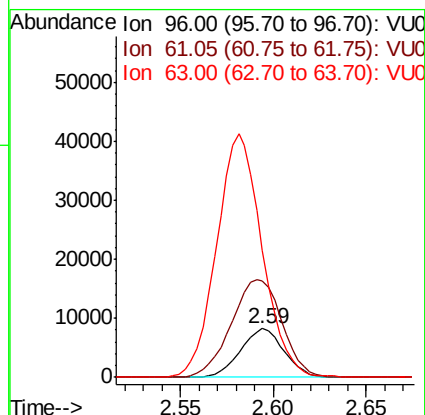
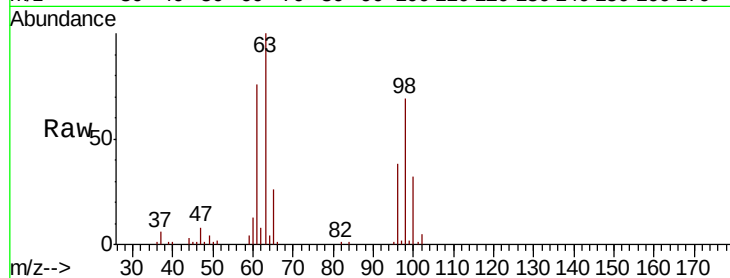
Tot Ion: 96 Resp: 13603

Ion Ratio Lower Upper

96 100

61 200.1 128.8 239.2

63 263.5 84.6 157.2#



#14

Carbon disulfide

Concen: 0.929 ug/L

RT: 2.81 min Scan# 457

Delta R.T. 0.00 min

Lab File: VU040756.D

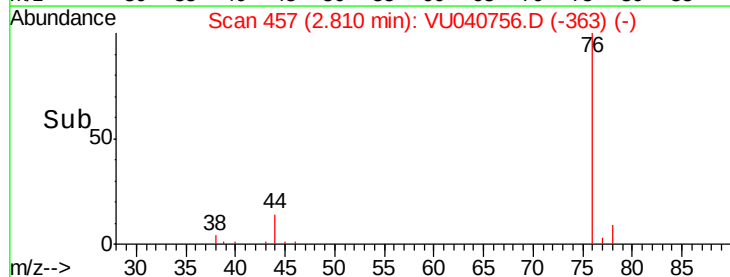
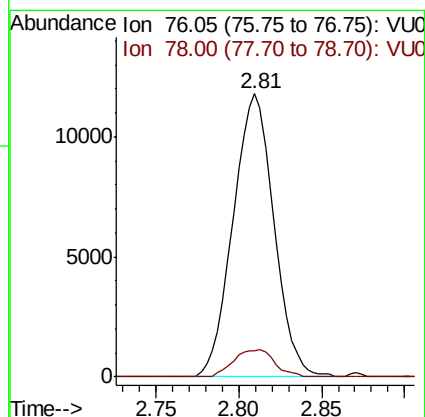
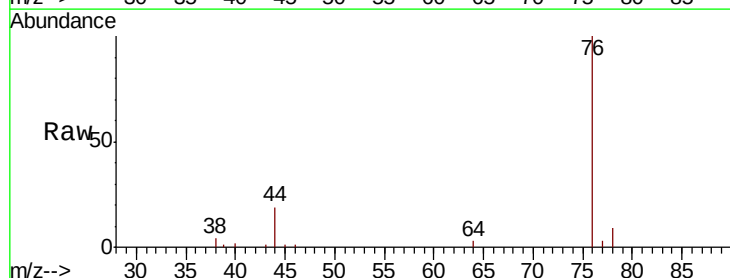
Acq: 16 Oct 2020 18:38

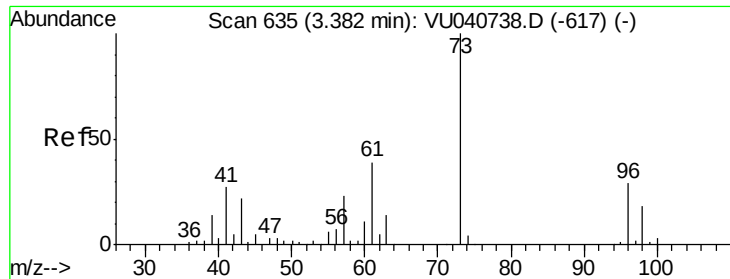
Tgt Ion: 76 Resp: 20205

Ion Ratio Lower Upper

76 100

78 9.3 6.8 10.2

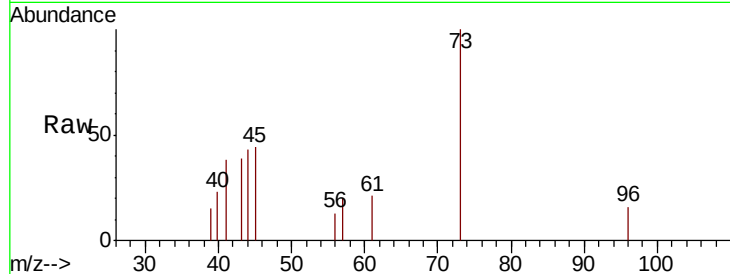




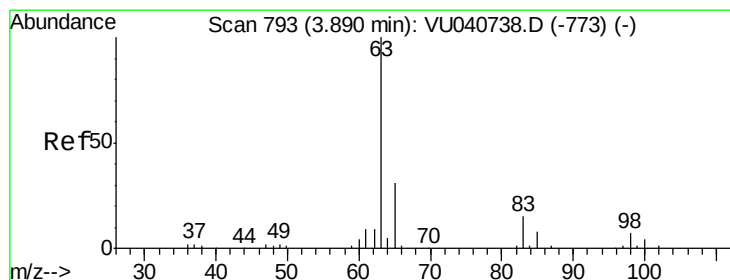
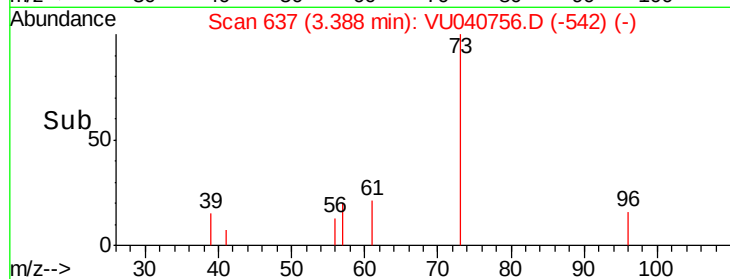
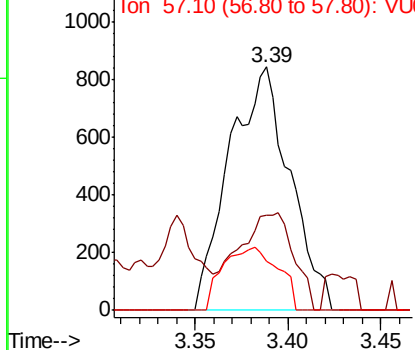
#17
Methyl tert-butyl Ether
Concen: 0.087 ug/L
RT: 3.39 min Scan# 637
Delta R.T. 0.01 min
Lab File: VU040756.D
Acq: 16 Oct 2020 18:38

Instrument :
MSVOA_U
ClientSampled :
C0AK3

Tot Ion: 73 Resp: 1913
Ion Ratio Lower Upper
73 100
43 37.3 18.2 27.4#
57 23.6 18.6 28.0

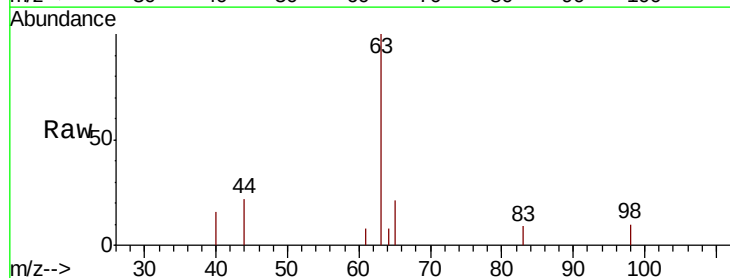


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

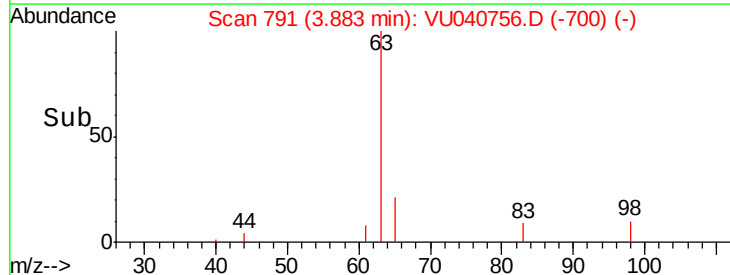
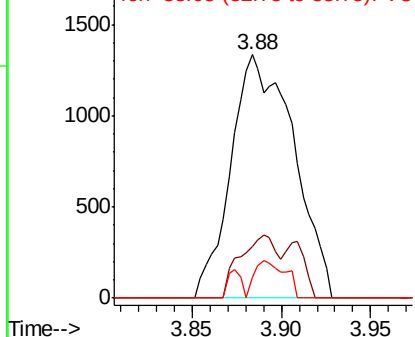


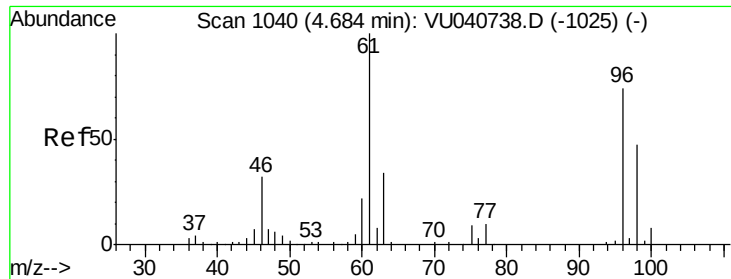
#19
1,1-Dichloroethane
Concen: 0.194 ug/L
RT: 3.88 min Scan# 791
Delta R.T. -0.01 min
Lab File: VU040756.D
Acq: 16 Oct 2020 18:38

Tgt Ion: 63 Resp: 3270
Ion Ratio Lower Upper
63 100
65 21.4 21.9 40.7#
83 8.7 9.6 17.8#



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

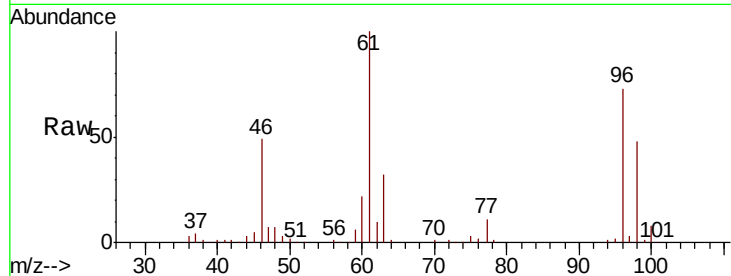




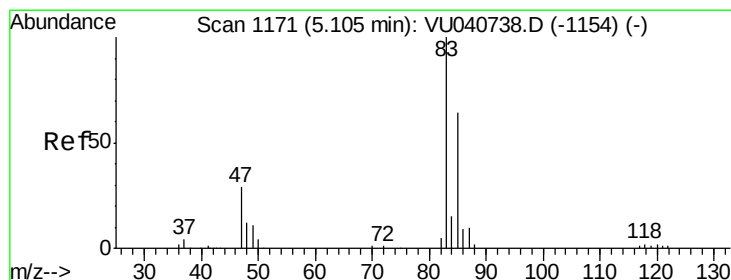
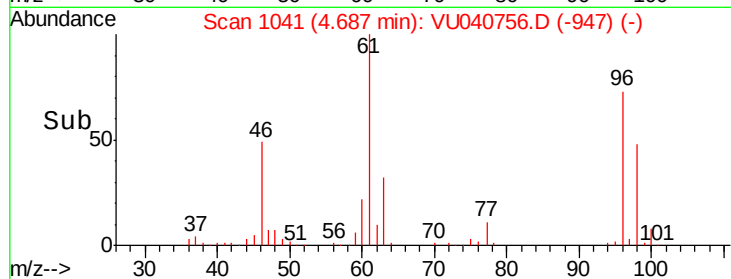
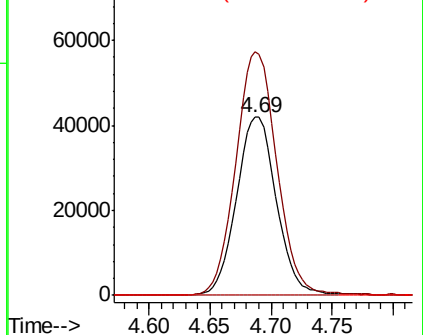
#22
 cis-1,2-Dichloroethene
 Concen: 10.800 ug/L
 RT: 4.69 min Scan# 1041
 Delta R.T. 0.00 min
 Lab File: VU040756.D
 Acq: 16 Oct 2020 18:38

Instrument :
 MSVOA_U
 ClientSampleId :
 C0AK3

Tot Ion: 96 Resp: 94765
 Ion Ratio Lower Upper
 96 100
 61 136.7 99.8 185.4
 68 0.0 0.0 0.0

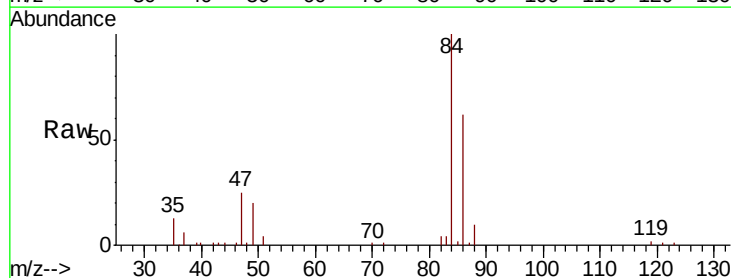


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0

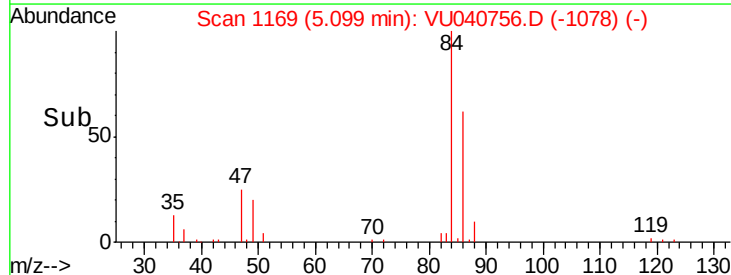
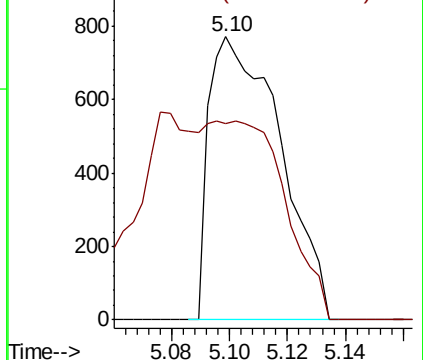


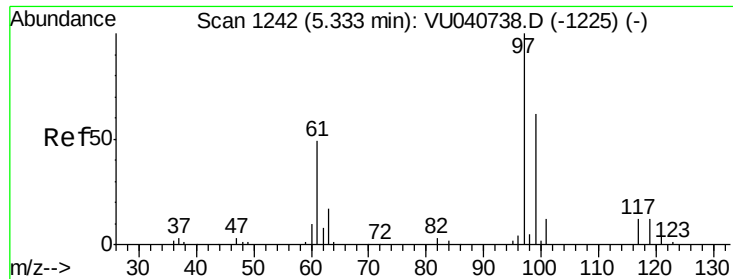
#25
 Chloroform
 Concen: 0.077 ug/L
 RT: 5.10 min Scan# 1169
 Delta R.T. -0.01 min
 Lab File: VU040756.D
 Acq: 16 Oct 2020 18:38

Tgt Ion: 83 Resp: 1321
 Ion Ratio Lower Upper
 83 100
 85 69.5 46.5 86.5



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

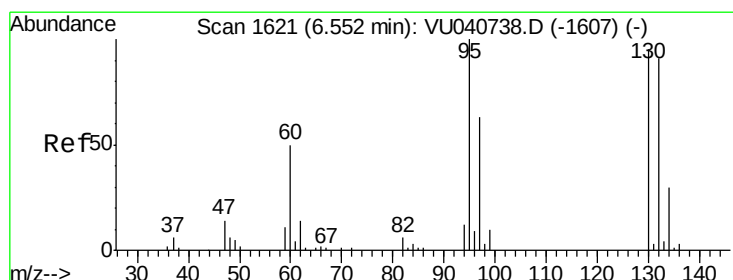
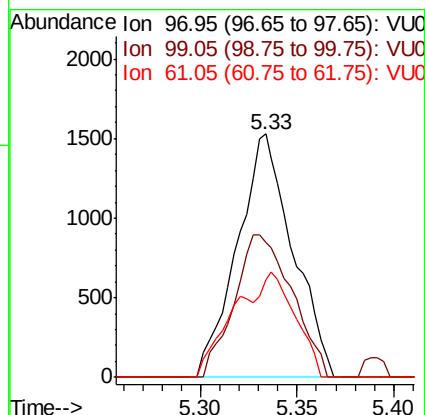
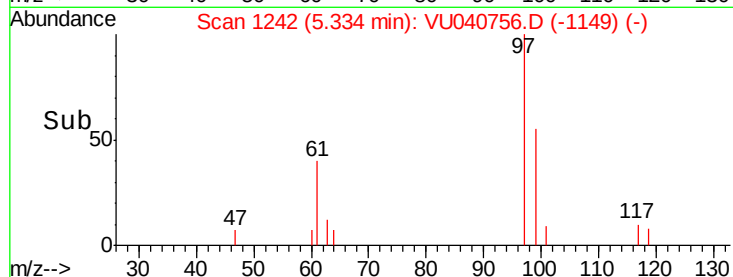
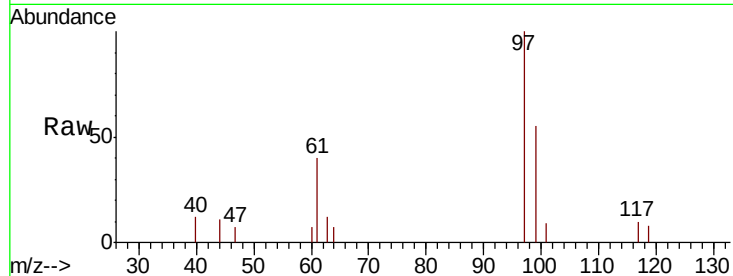




#29
1,1,1-Trichloroethane
Concen: 0.199 ug/L
RT: 5.33 min Scan# 1242
Delta R.T. 0.00 min
Lab File: VU040756.D
Acq: 16 Oct 2020 18:38

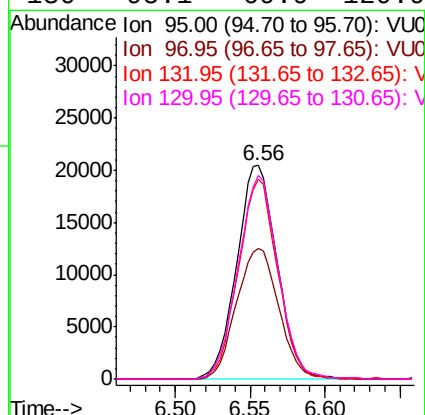
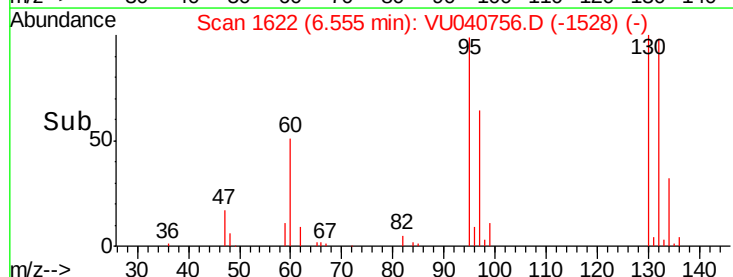
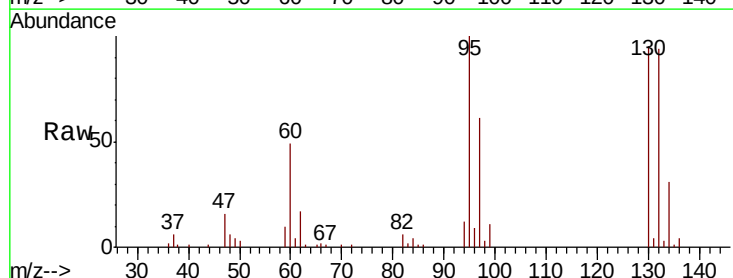
Instrument :
MSVOA_U
ClientSampleId :
C0AK3

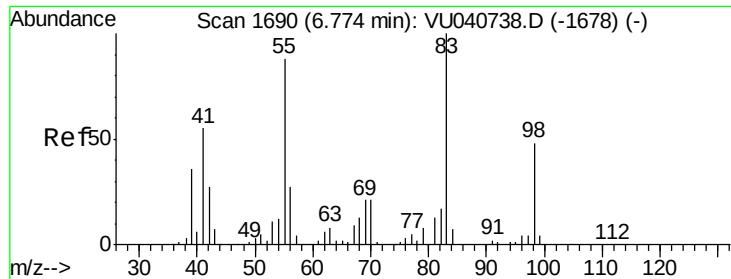
Tot Ion: 97 Resp: 3047
Ion Ratio Lower Upper
97 100
99 60.9 51.3 76.9
61 47.6 39.4 59.2



#34
Trichloroethene
Concen: 4.041 ug/L
RT: 6.56 min Scan# 1622
Delta R.T. 0.00 min
Lab File: VU040756.D
Acq: 16 Oct 2020 18:38

Tgt Ion: 95 Resp: 38352
Ion Ratio Lower Upper
95 100
97 61.1 45.5 84.5
132 93.5 67.5 125.4
130 95.1 69.9 129.9

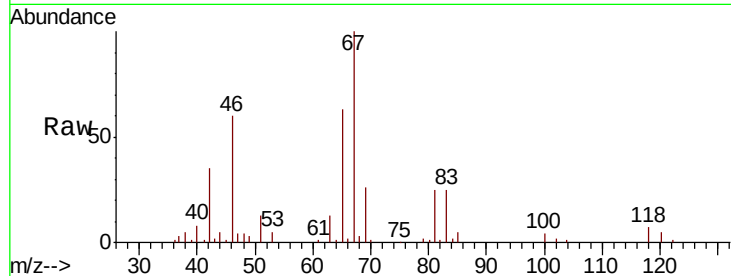




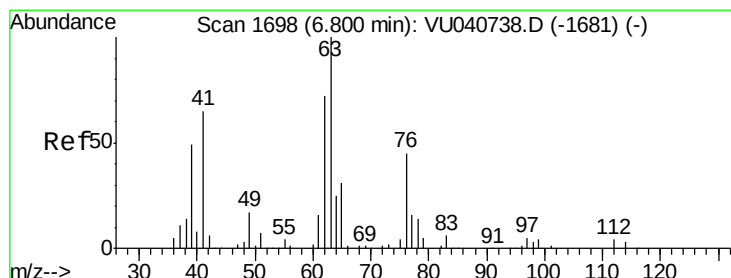
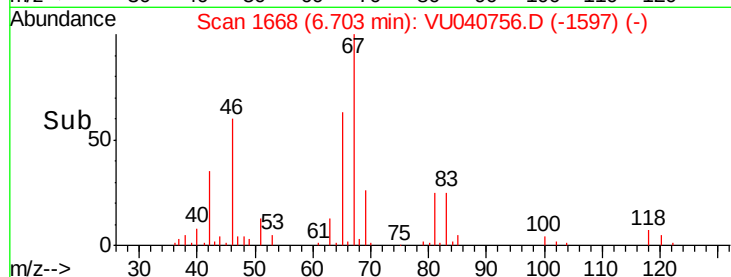
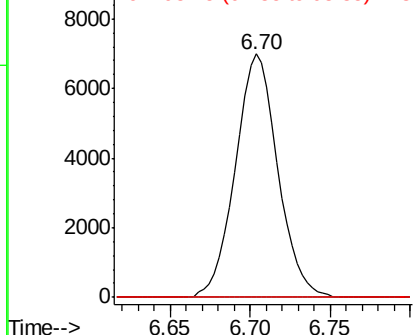
#35
Methylvlcyclohexane
Concen: 0.939 ug/L
RT: 6.70 min Scan# 1668
Delta R.T. -0.07 min
Lab File: VU040756.D
Acq: 16 Oct 2020 18:38

Instrument :
MSVOA_U
ClientSampleId :
C0AK3

Tot Ion: 83 Resp: 12636
Ion Ratio Lower Upper
83 100
55 0.0 70.7 106.1#
98 0.0 38.4 57.6#

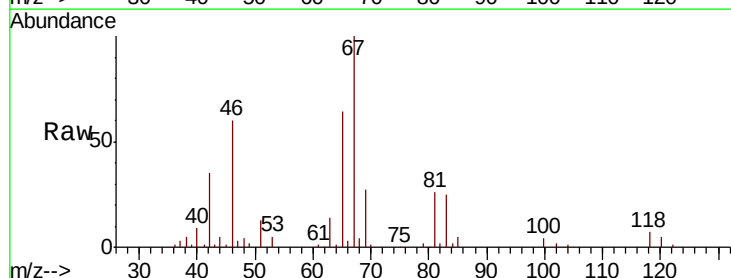


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

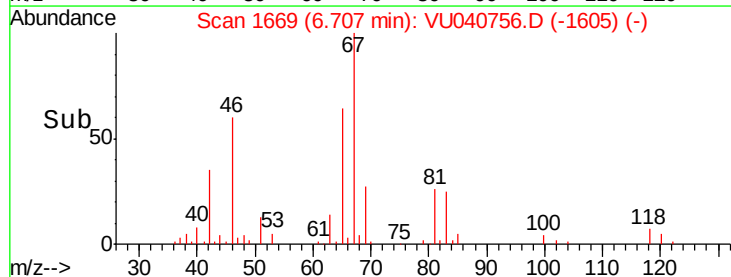
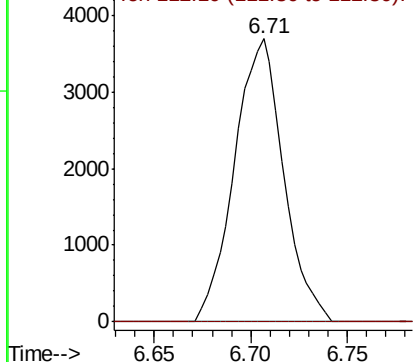


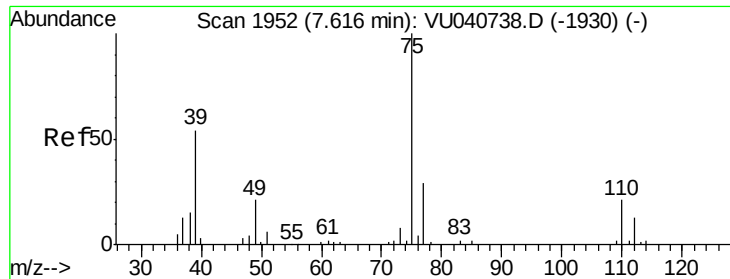
#37
1,2-Dichloropropane
Concen: 0.641 ug/L
RT: 6.71 min Scan# 1669
Delta R.T. -0.09 min
Lab File: VU040756.D
Acq: 16 Oct 2020 18:38

Tgt Ion: 63 Resp: 6535
Ion Ratio Lower Upper
63 100
112 0.0 3.5 5.3#



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

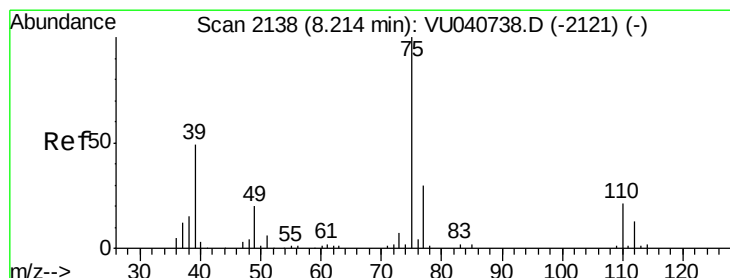
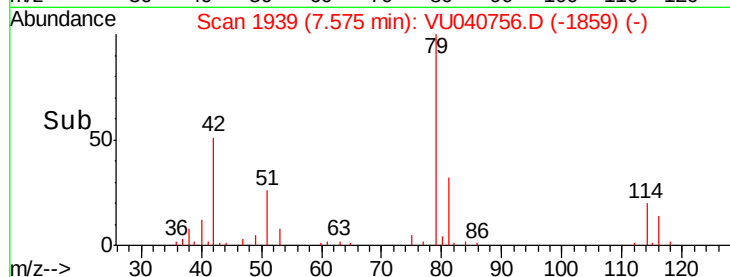
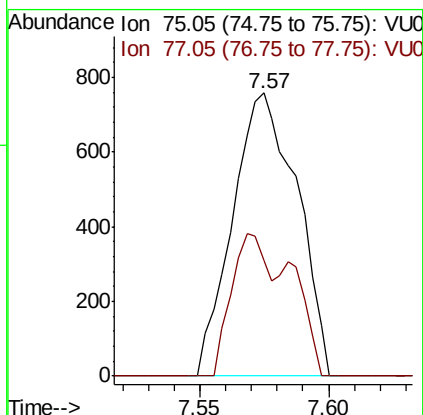
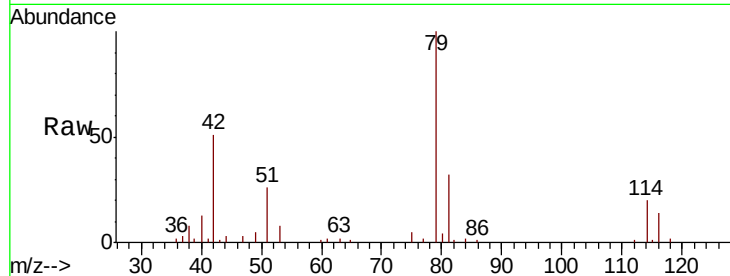




#39
 cis-1,3-Dichloropropene
 Concen: 0.095 ug/L
 RT: 7.57 min Scan# 1939
 Delta R.T. -0.04 min
 Lab File: VU040756.D
 Acq: 16 Oct 2020 18:38

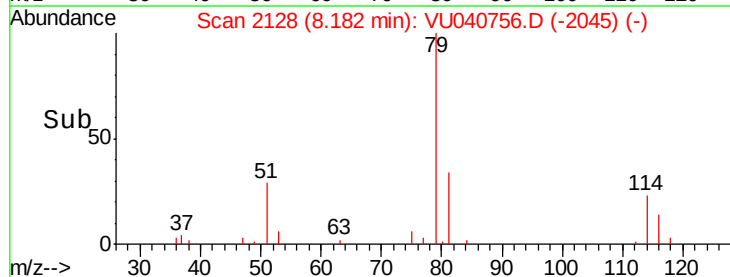
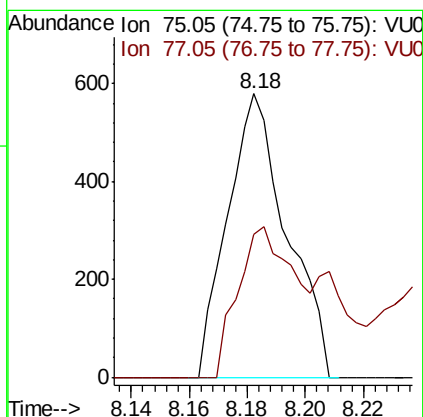
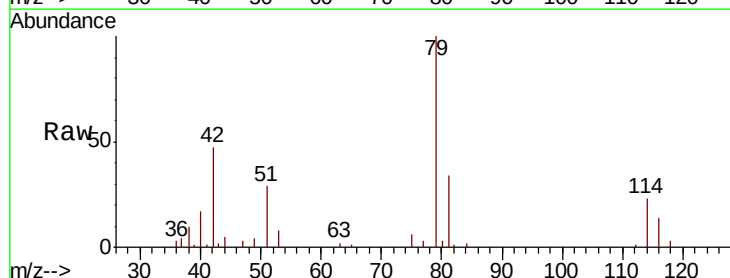
Instrument :
 MSVOA_U
 ClientSampleId :
 C0AK3

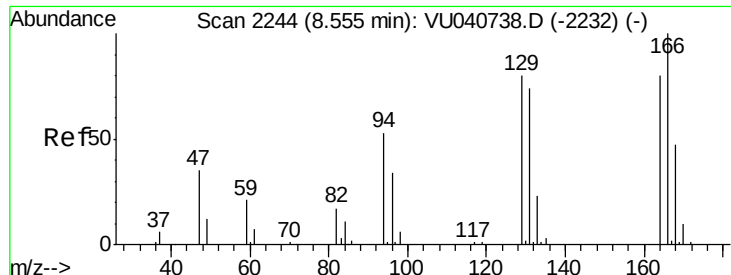
Tot Ion: 75 Resp: 1320
 Ion Ratio Lower Upper
 75 100
 77 40.9 20.5 38.1#



#44
 trans-1,3-Dichloropropene
 Concen: 0.064 ug/L
 RT: 8.18 min Scan# 2128
 Delta R.T. -0.03 min
 Lab File: VU040756.D
 Acq: 16 Oct 2020 18:38

Tgt Ion: 75 Resp: 817
 Ion Ratio Lower Upper
 75 100
 77 50.6 20.4 38.0#





#47

Tetrachloroethene

Concen: 0.578 ug/L

RT: 8.56 min Scan# 2244

Delta R.T. 0.00 min

Lab File: VU040756.D

Acq: 16 Oct 2020 18:38

Instrument :

MSVOA_U

ClientSampleId :

C0AK3

Tot Ion:164 Resp: 3914

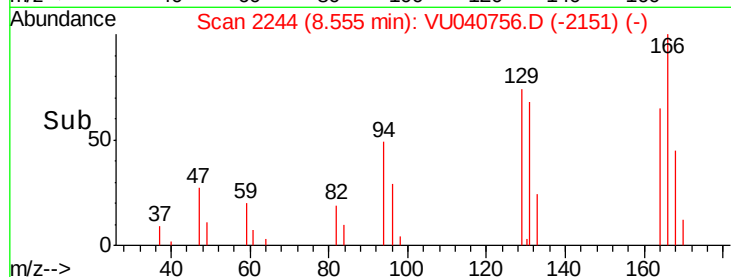
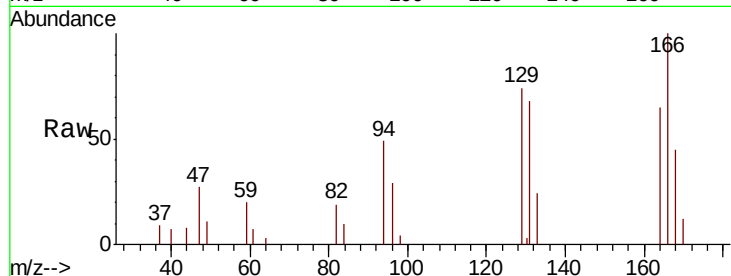
Ion Ratio Lower Upper

164 100

129 113.8 68.8 127.8

131 103.6 66.7 123.9

166 153.1 83.9 155.7

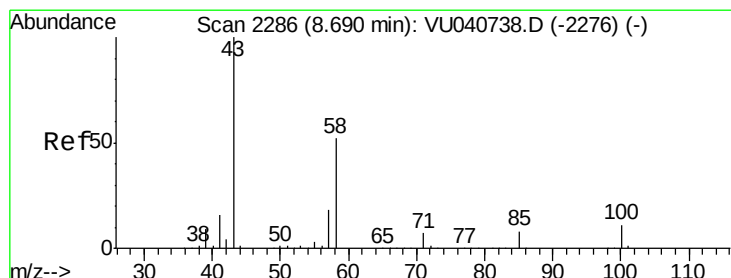
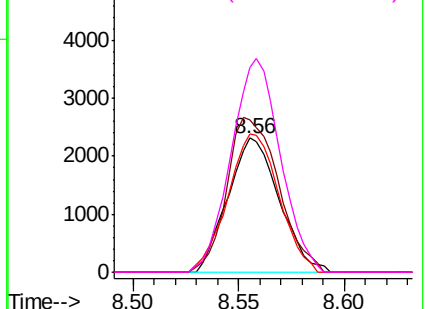


Abundance Ion 163.90 (163.60 to 164.60): V

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: 2.521 ug/L

RT: 8.65 min Scan# 2272

Delta R.T. -0.04 min

Lab File: VU040756.D

Acq: 16 Oct 2020 18:38

Tgt Ion: 43 Resp: 15264

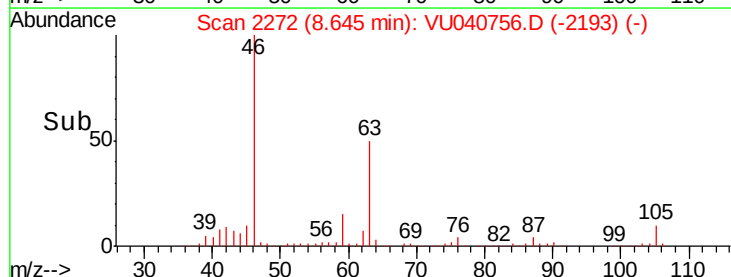
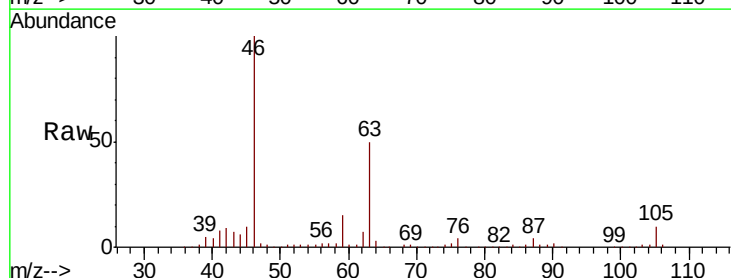
Ion Ratio Lower Upper

43 100

58 37.5 41.0 61.6#

57 32.9 14.4 21.6#

100 1.9 8.6 13.0#

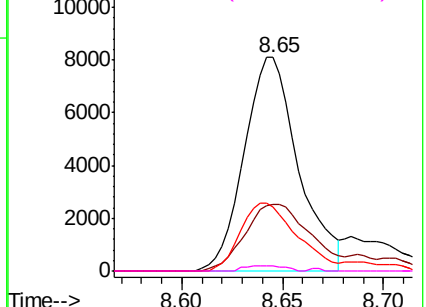


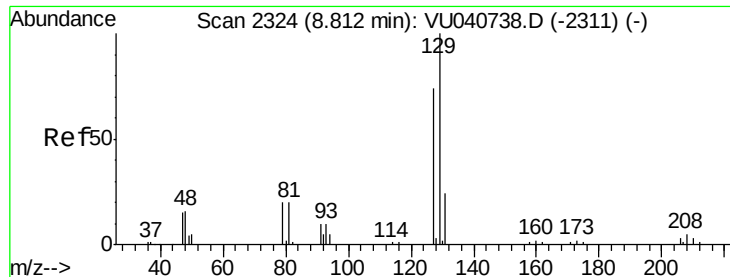
Abundance Ion 43.05 (42.75 to 43.75): VU0

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: 0.518 ug/L

RT: 8.55 min Scan# 2243

Delta R.T. -0.26 min

Lab File: VU040756.D

Acq: 16 Oct 2020 18:38

Instrument :

MSVOA_U

ClientSampleId :

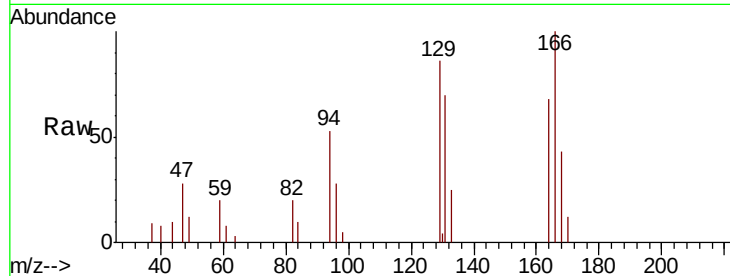
C0AK3

Tot Ion:129 Resp: 4552

Ion Ratio Lower Upper

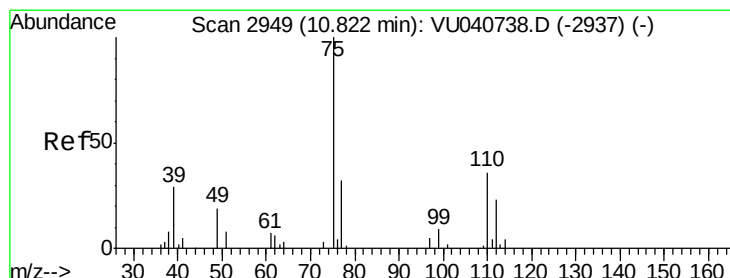
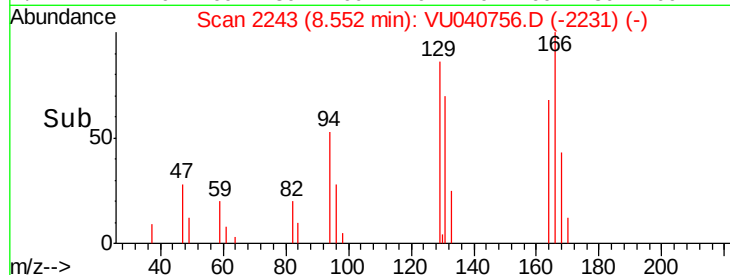
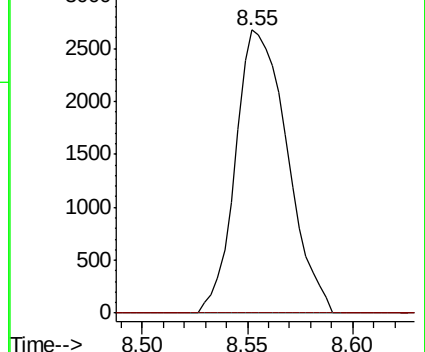
129 100

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: 0.855 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.98 min

Lab File: VU040756.D

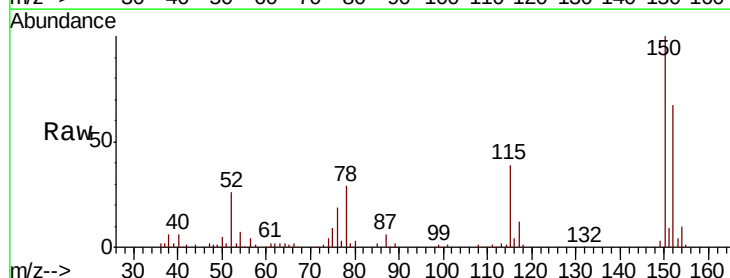
Acq: 16 Oct 2020 18:38

Tgt Ion: 75 Resp: 6409

Ion Ratio Lower Upper

75 100

77 34.2 26.4 39.6



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

