

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U102020\
 Data File : VU040860.D
 Acq On : 20 Oct 2020 20:16
 Operator : SY/MD
 Sample : L4428-19
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 ETZ51

Quant Time: Oct 21 00:00:48 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	102795	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	103496	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	42950	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	63245	7.42	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	148.40%#
7) Chloroethane-d5	1.92	69	36217	5.51	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	110.20%
11) 1,1-Dichloroethene-d2	2.58	63	64831	3.89	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	77.80%
20) 2-Butanone-d5	4.66	46	168693	61.89	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	123.78%
24) Chloroform-d	5.08	84	84688	5.67	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	113.40%
26) 1,2-Dichloroethane-d4	5.72	65	51498	5.66	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	113.20%
32) Benzene-d6	5.74	84	153290	5.49	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	109.80%
36) 1,2-Dichloropropane-d6	6.70	67	51978	5.61	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	112.20%
41) Toluene-d8	7.91	98	121131	4.85	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.00%
43) trans-1,3-Dichloropropene-	8.19	79	19196	4.89	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	97.80%
46) 2-Hexanone-d5	8.64	63	114830	56.76	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	113.52%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	46991	5.65	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	113.00%
64) 1,2-Dichlorobenzene-d4	12.19	152	48863	6.14	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	122.80%#

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chloromethane	1.50	50	4324	0.496	ug/L #	43
5) Vinyl chloride	1.61	62	2857773	311.558	ug/L	99
8) Chloroethane	1.95	64	1825	0.312	ug/L #	49
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	451	0.053	ug/L #	1
12) 1,1-Dichloroethene	2.60	96	4956	0.676	ug/L #	1
13) Acetone	2.66	43	2746	1.300	ug/L	86
14) Carbon disulfide	2.81	76	8529	0.415	ug/L	99
17) Methyl tert-butyl Ether	3.38	73	4803	0.232	ug/L #	90
18) trans-1,2-Dichloroethene	3.37	96	7371	0.960	ug/L	91
19) 1,1-Dichloroethane	3.89	63	845	0.053	ug/L #	86
22) cis-1,2-Dichloroethene	4.69	96	3037427	366.854	ug/L	99
33) Benzene	5.79	78	3364	0.101	ug/L	100
34) Trichloroethene	6.56	95	45097	5.232	ug/L	97
35) Methylcyclohexane	6.78	83	431	0.035	ug/L #	64
37) 1,2-Dichloropropane	6.70	63	6124	0.661	ug/L #	87
39) cis-1,3-Dichloropropene	7.57	75	1537	0.121	ug/L #	70
42) Toluene	7.98	91	3408	0.101	ug/L	100

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QLast Update : Tue Oct 20 23:49:45 2020
Response via : Initial Calibration

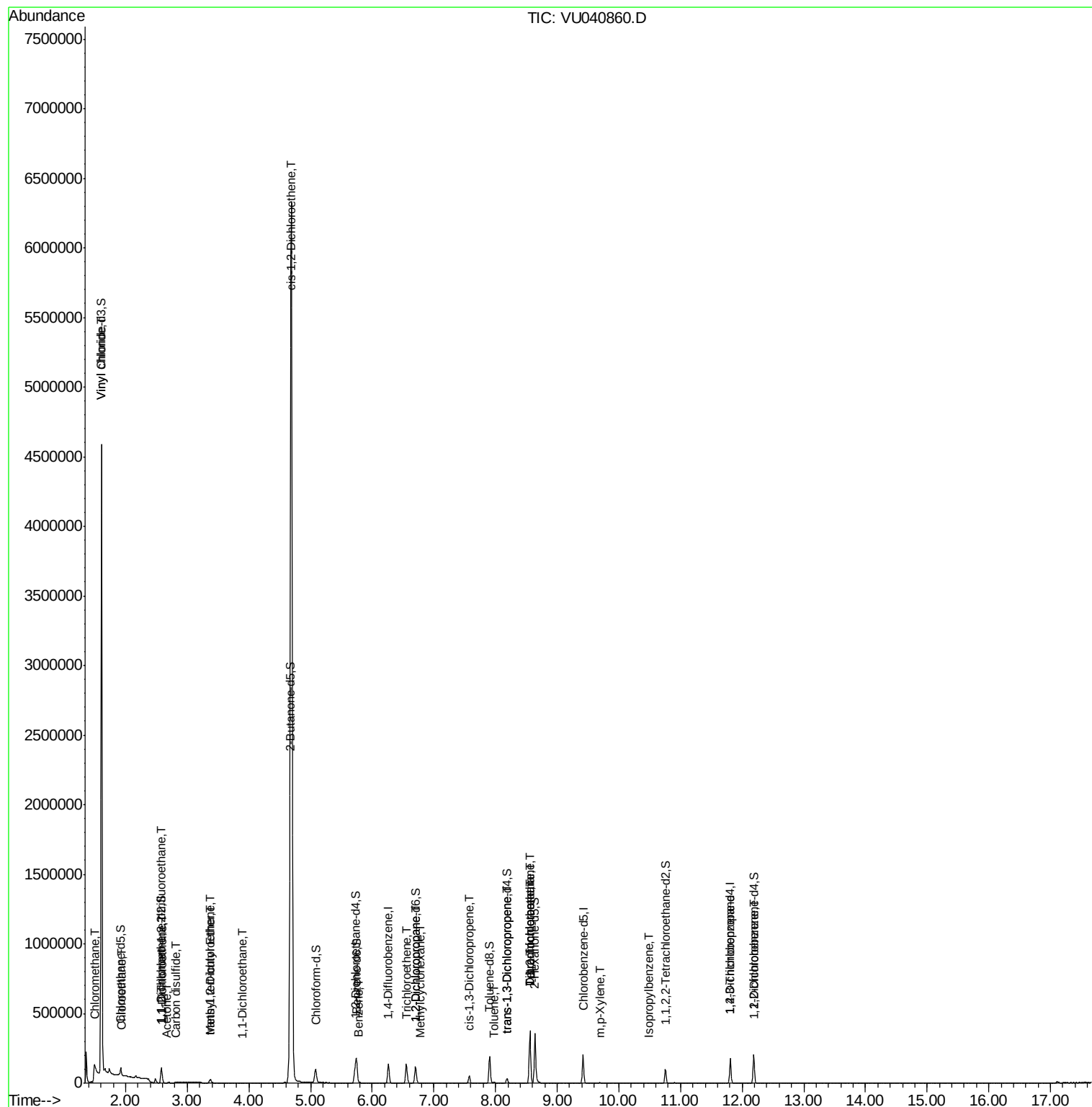
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) trans-1,3-Dichloropropene	8.19	75	1047	0.090	ug/L #	64
45) 1,1,2-Trichloroethane	8.56	97	706	0.102	ug/L #	1
47) Tetrachloroethene	8.56	164	77140	12.545	ug/L	97
49) Dibromochloromethane	8.56	129	76487	9.580	ug/L #	9
53) m,p-Xylene	9.69	106	1039	0.078	ug/L	73
56) Isopropylbenzene	10.49	105	2183	0.063	ug/L #	89
59) 1,2,3-Trichloropropane	11.81	75	5526	0.812	ug/L	90
65) 1,2-Dichlorobenzene	12.21	146	2150	0.156	ug/L #	80

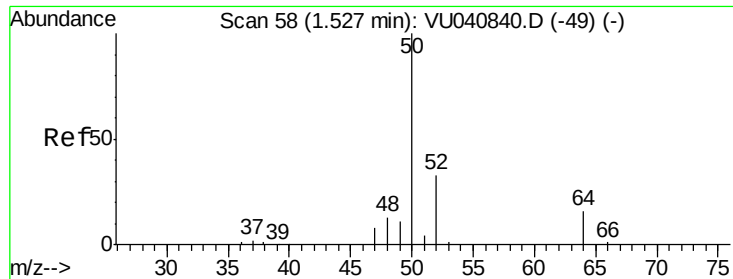
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.496 ug/L

RT: 1.50 min Scan# 51

Delta R.T. -0.02 min

Lab File: VU040860.D

Acq: 20 Oct 2020 20:16

Instrument :

MSVOA_U

ClientSampleId :

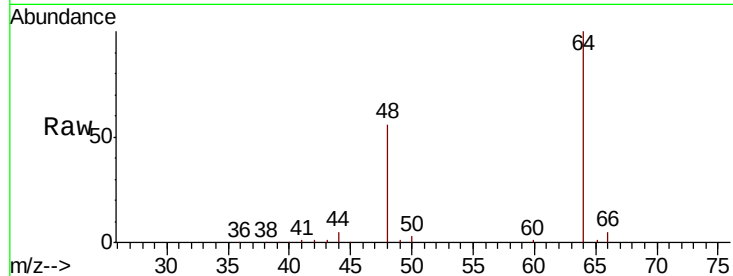
ETZ51

Tot Ion: 50 Resp: 4324

Ion Ratio Lower Upper

50 100

52 0.0 21.9 40.7#



Abundance Ion 50.05 (49.75 to 50.75): VU040840.D (-49) (-)

Ion 52.05 (51.75 to 52.75): VU040840.D (-49) (-)

1.50

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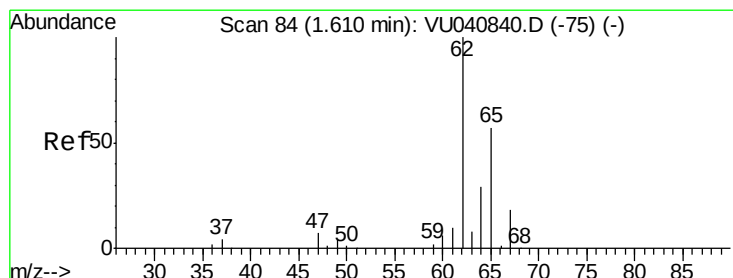
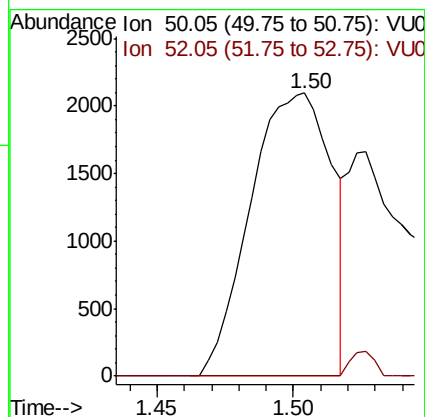
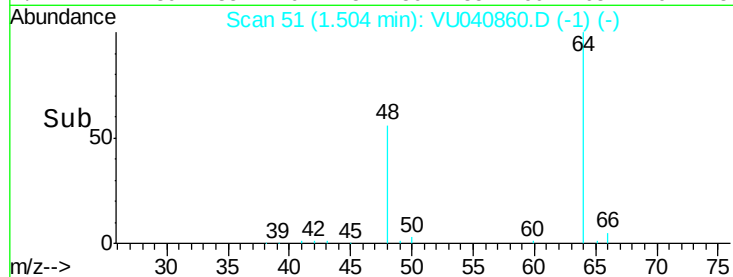
1.50

1.50

1.50

1.50

1.50



#5

Vinyl chloride

Concen: 311.558 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU040860.D

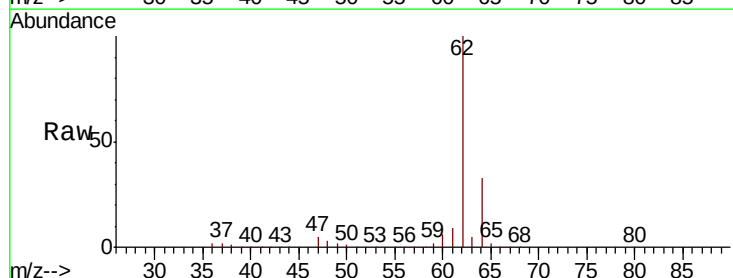
Acq: 20 Oct 2020 20:16

Tgt Ion: 62 Resp: 2857773

Ion Ratio Lower Upper

62 100

64 33.4 23.7 44.1



Abundance Ion 62.00 (61.70 to 62.70): VU040840.D (-75) (-)

Ion 64.10 (63.80 to 64.80): VU040840.D (-75) (-)

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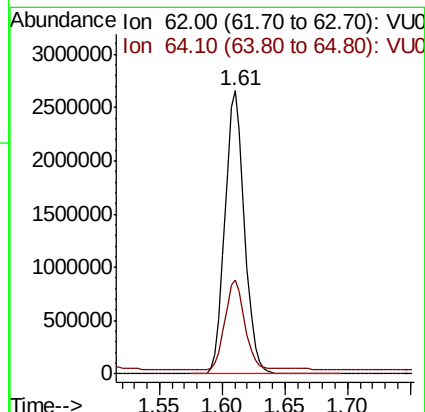
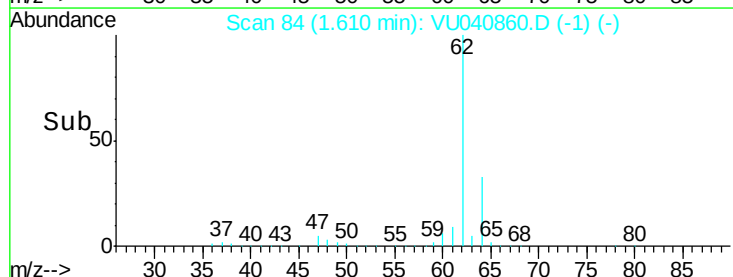
1.61

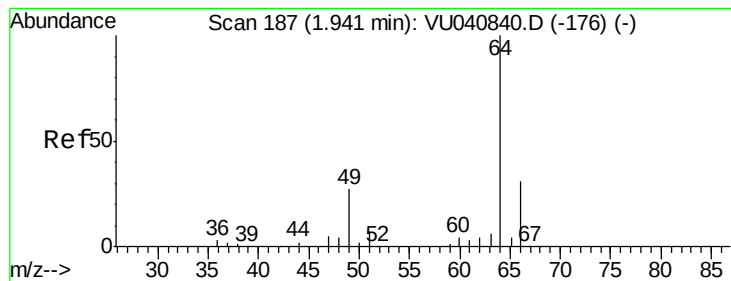
1.61

1.61

1.61

1.61





#8

Chloroethane

Concen: 0.312 ug/L

RT: 1.95 min Scan# 189

Delta R.T. 0.01 min

Lab File: VU040860.D

Acq: 20 Oct 2020 20:16

Instrument :

MSVOA_U

ClientSampleId :

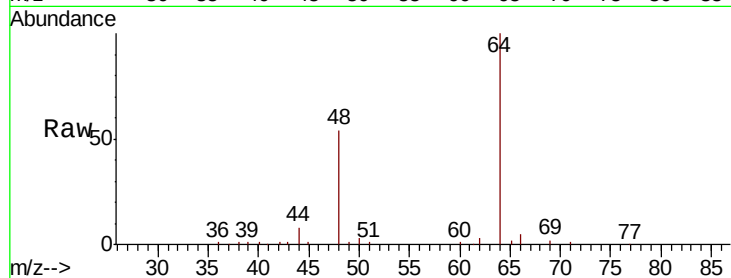
ETZ51

Tot Ion: 64 Resp: 1825

Ion Ratio Lower Upper

64 100

66 4.6 23.3 43.3#



Abundance Ion 64.10 (63.80 to 64.80): VU040860.D (-176) (-)

Ion 66.05 (65.75 to 66.75): VU040860.D (-176) (-)

1.95

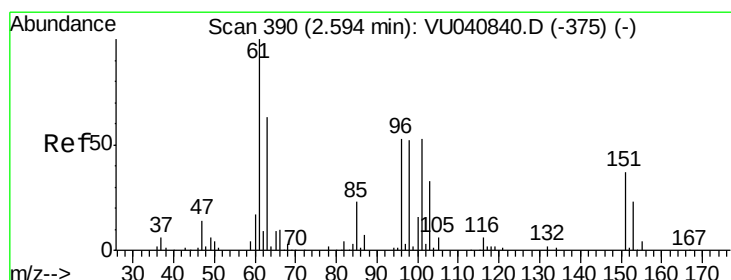
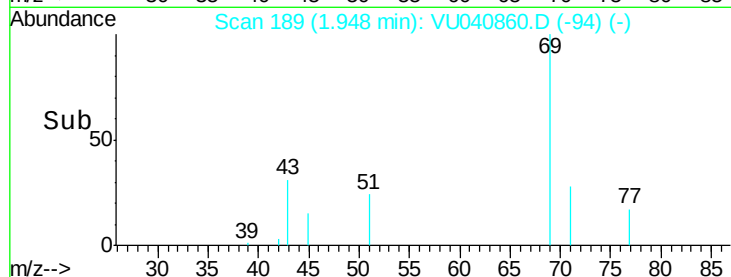
30000

20000

10000

0

Time--> 1.93 1.94 1.95 1.96



#10

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

Concen: 0.053 ug/L

RT: 2.59 min Scan# 389

Delta R.T. -0.00 min

Lab File: VU040860.D

Acq: 20 Oct 2020 20:16

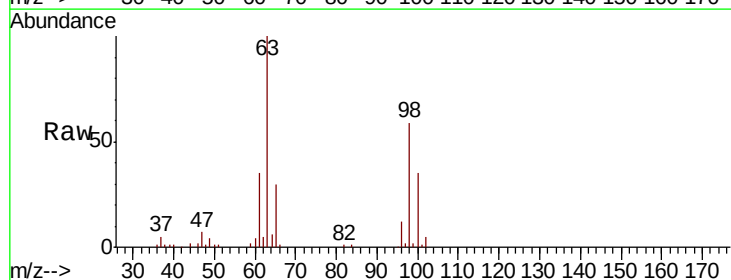
Tgt Ion:101 Resp: 451

Ion Ratio Lower Upper

101 100

85 126.8 36.7 55.1#

151 0.0 58.0 87.0#



Abundance Ion 101.00 (100.70 to 101.70): VU040860.D (-375) (-)

Ion 85.00 (84.70 to 85.70): VU040860.D (-375) (-)

Ion 151.00 (150.70 to 151.70): VU040860.D (-375) (-)

2.59

400

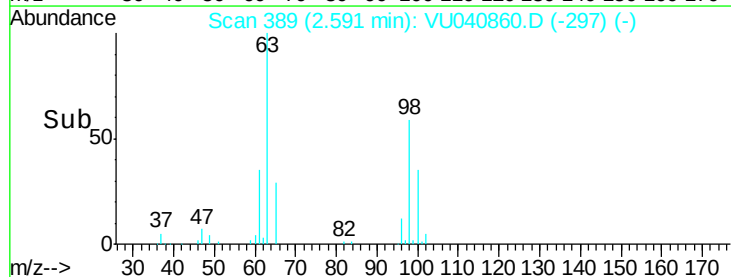
300

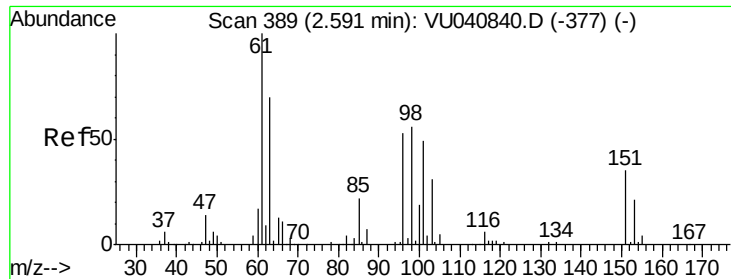
200

100

0

Time--> 2.56 2.58 2.60

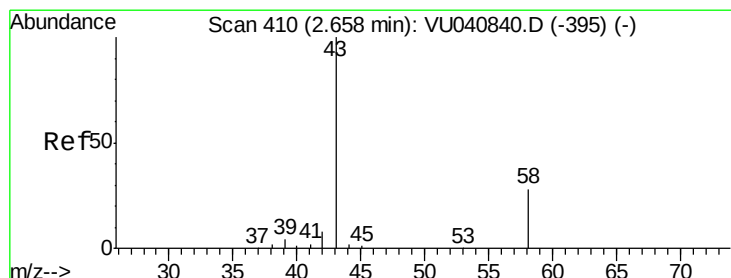
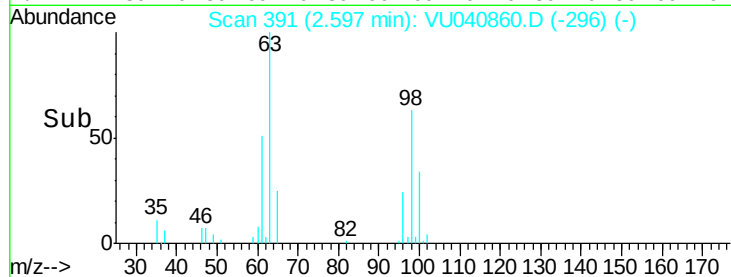
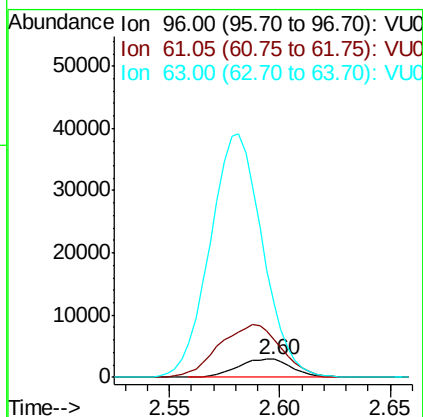
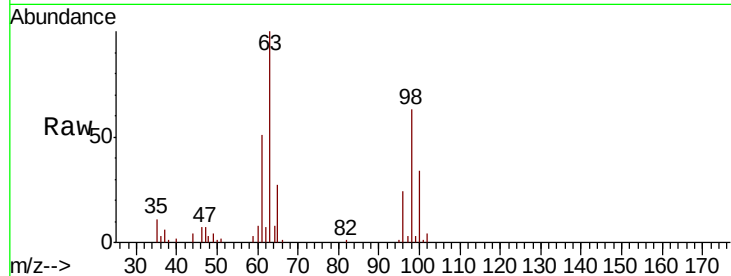




#12
 1,1-Dichloroethene
 Concen: 0.676 ug/L
 RT: 2.60 min Scan# 391
 Delta R.T. 0.01 min
 Lab File: VU040860.D
 Acq: 20 Oct 2020 20:16

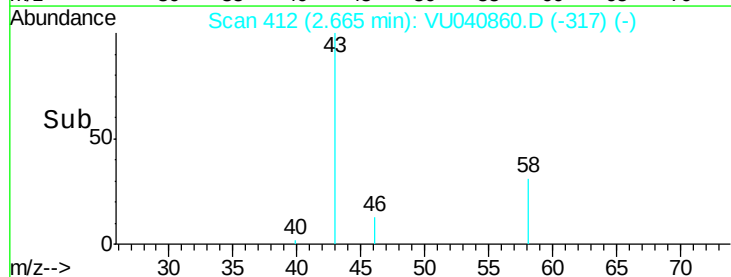
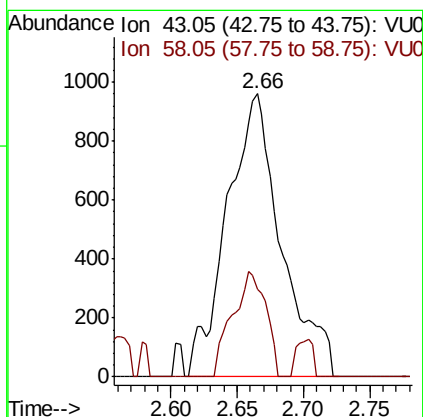
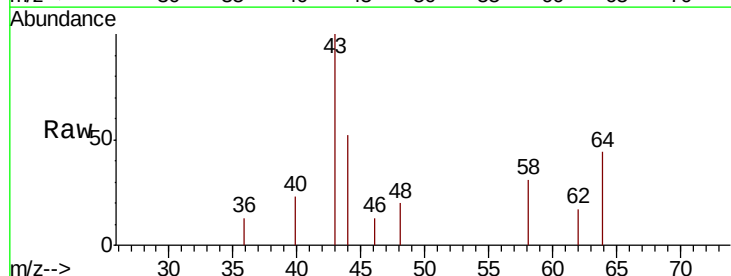
Instrument :
 MSVOA_U
 ClientSampleId :
 ETZ51

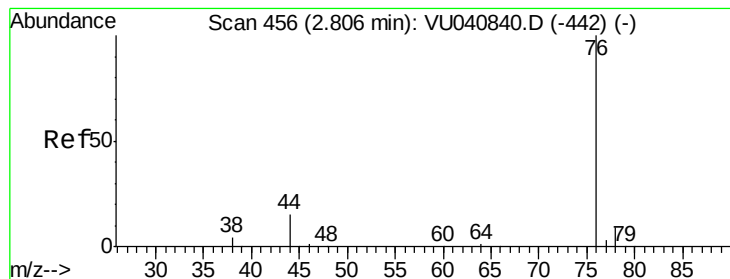
Tot Ion	Ratio	Lower	Upper
96	100		
61	211.0	128.8	239.2
63	410.7	84.6	157.2#



#13
 Acetone
 Concen: 1.300 ug/L
 RT: 2.66 min Scan# 412
 Delta R.T. 0.01 min
 Lab File: VU040860.D
 Acq: 20 Oct 2020 20:16

Tgt Ion	Ratio	Lower	Upper
43	100		
58	22.8	0.0	60.6





#14

Carbon disulfide

Concen: 0.415 ug/L

RT: 2.81 min Scan# 457

Delta R.T. 0.00 min

Lab File: VU040860.D

Acq: 20 Oct 2020 20:16

Instrument :

MSVOA_U

ClientSampleId :

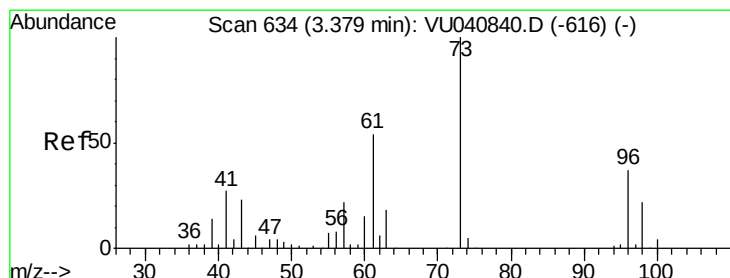
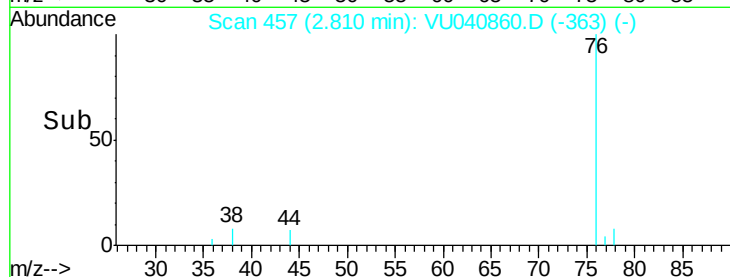
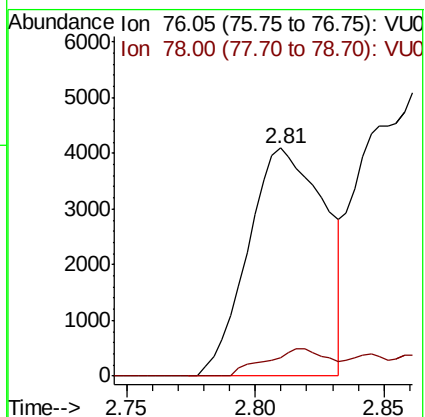
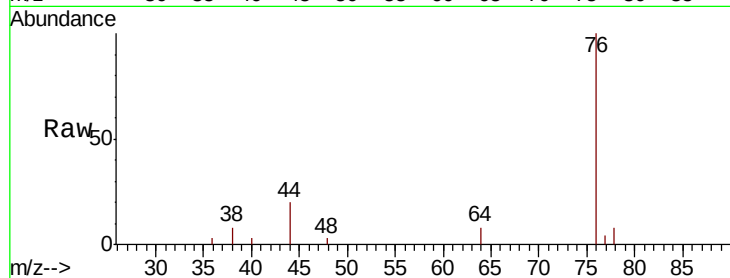
ETZ51

Tot Ion: 76 Resp: 8529

Ion Ratio Lower Upper

76 100

78 8.3 6.8 10.2



#17

Methyl tert-butyl Ether

Concen: 0.232 ug/L

RT: 3.38 min Scan# 635

Delta R.T. 0.00 min

Lab File: VU040860.D

Acq: 20 Oct 2020 20:16

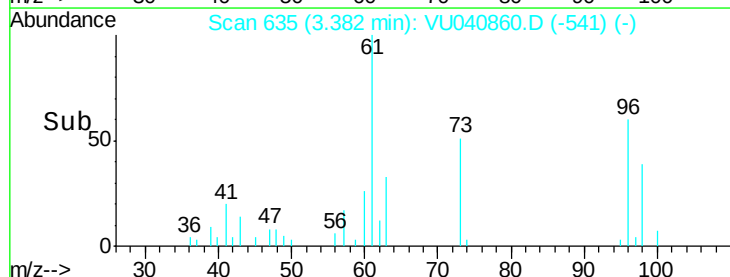
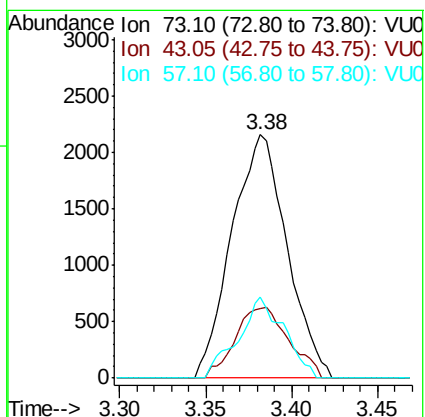
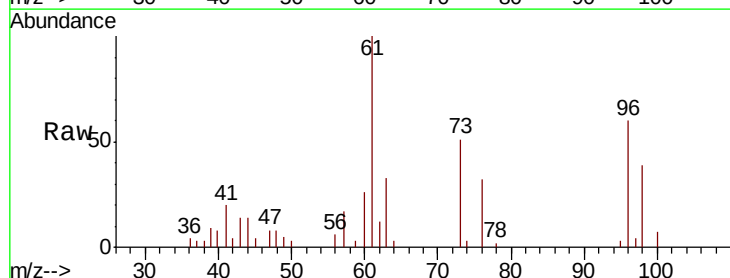
Tgt Ion: 73 Resp: 4803

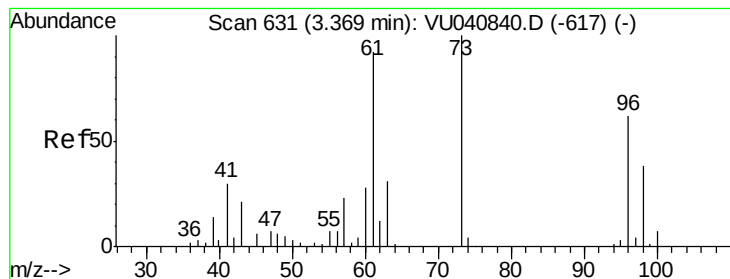
Ion Ratio Lower Upper

73 100

43 28.1 18.2 27.4#

57 27.6 18.6 28.0





#18

trans-1,2-Dichloroethene

Concen: 0.960 ug/L

RT: 3.37 min Scan# 631

Delta R.T. 0.00 min

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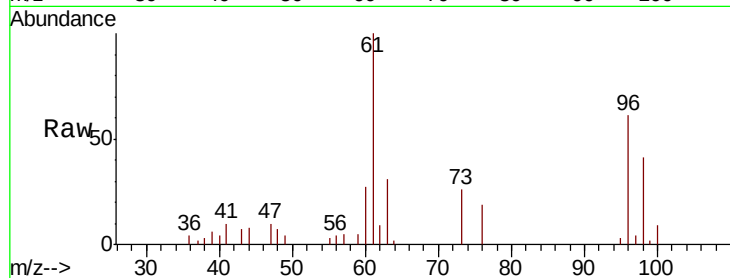
Tot Ion: 96 Resp: 7371

Ion Ratio Lower Upper

96 100

61 163.9 105.9 196.7

98 67.7 43.8 81.3

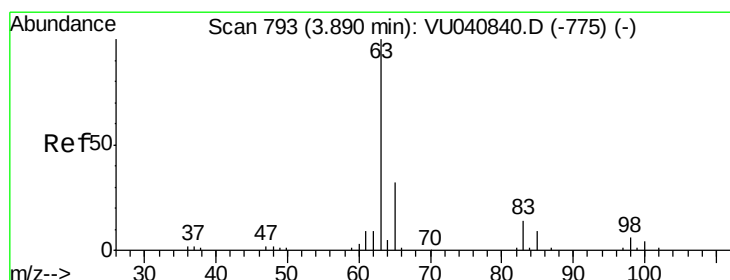
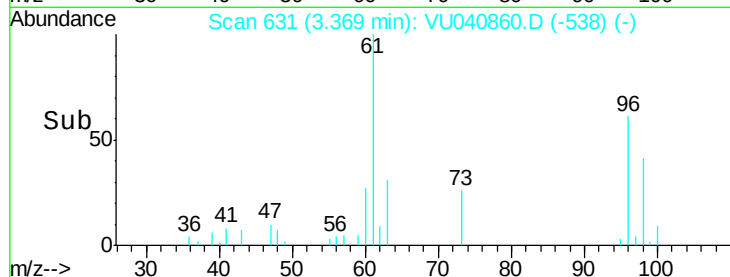
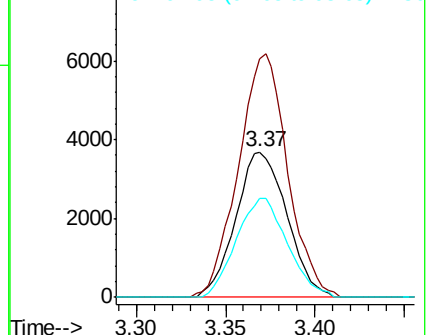


Abundance

Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 97.95 (97.65 to 98.65): VU0



#19

1,1-Dichloroethane

Concen: 0.053 ug/L

RT: 3.89 min Scan# 792

Delta R.T. -0.00 min

Lab File: VU040860.D

Acq: 20 Oct 2020 20:16

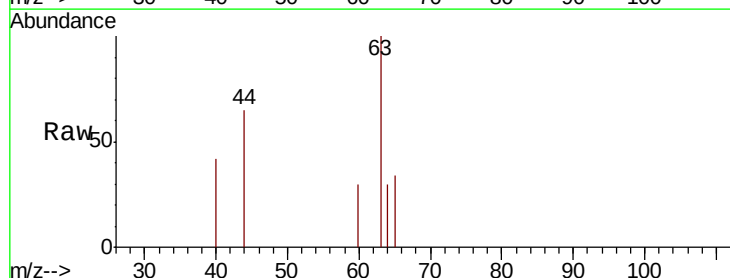
Tgt Ion: 63 Resp: 845

Ion Ratio Lower Upper

63 100

65 34.5 21.9 40.7

83 0.0 9.6 17.8#

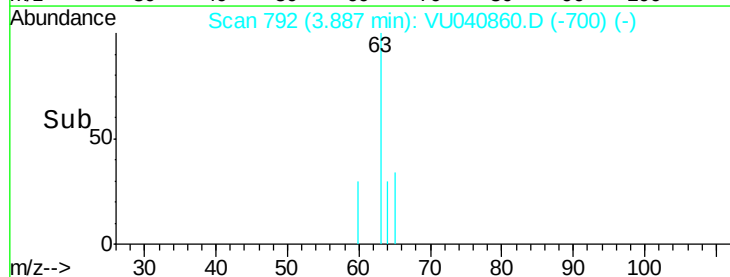
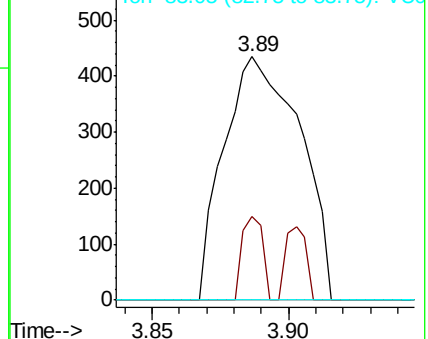


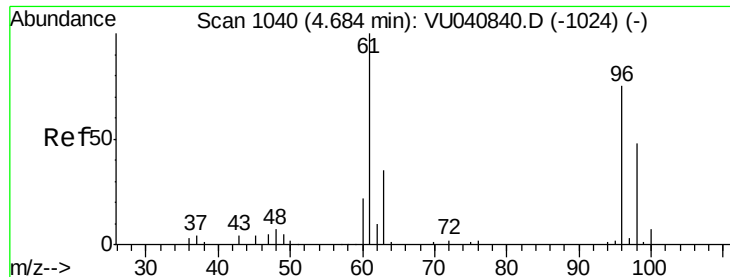
Abundance

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

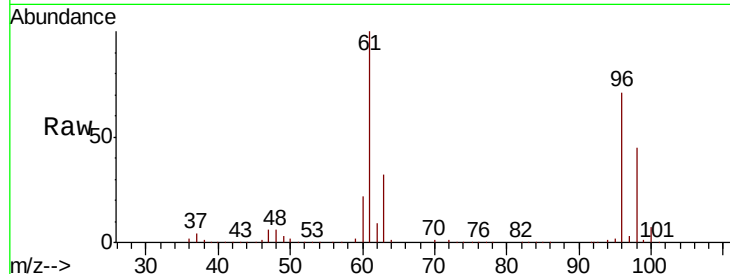




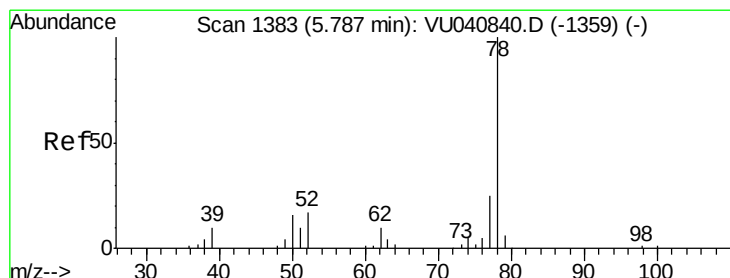
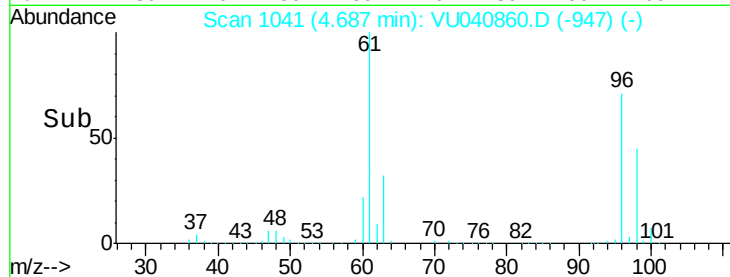
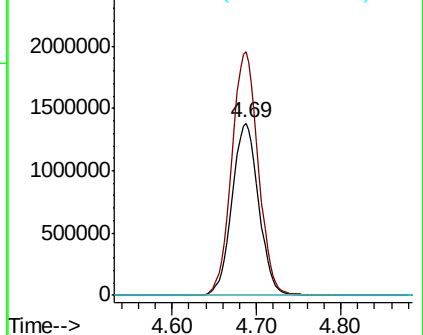
#22
 cis-1,2-Dichloroethene
 Concen: 366.854 ug/L
 RT: 4.69 min Scan# 1041
 Delta R.T. 0.00 min
 Lab File: VU040860.D
 Acq: 20 Oct 2020 20:16

Instrument :
 MSVOA_U
 ClientSampleId :
 ETZ51

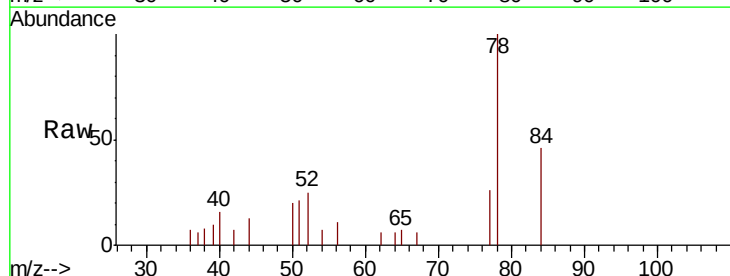
Tot Ion: 96 Resp: 3037427
 Ion Ratio Lower Upper
 96 100
 61 141.5 99.8 185.4
 68 0.0 0.0 0.0



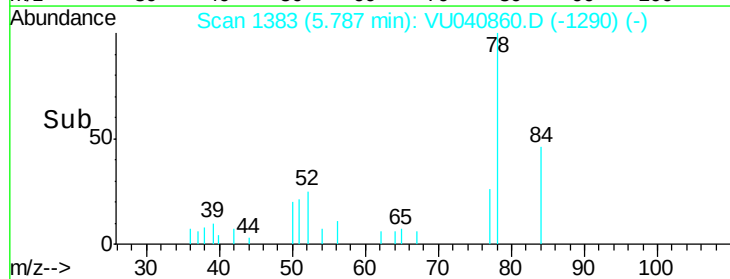
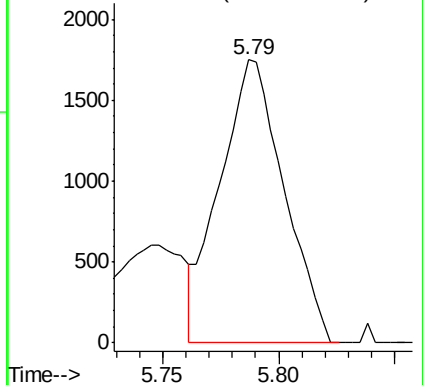
Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0

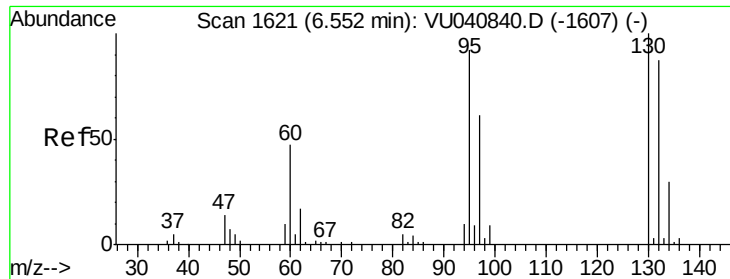


#33
 Benzene
 Concen: 0.101 ug/L
 RT: 5.79 min Scan# 1383
 Delta R.T. 0.00 min
 Lab File: VU040860.D
 Acq: 20 Oct 2020 20:16
 Tgt Ion: 78 Resp: 3364



Abundance Ion 78.10 (77.80 to 78.80): VU0

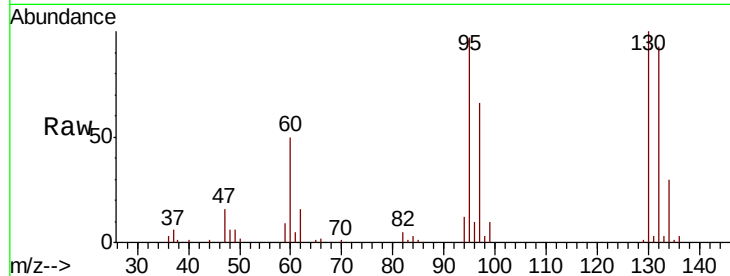




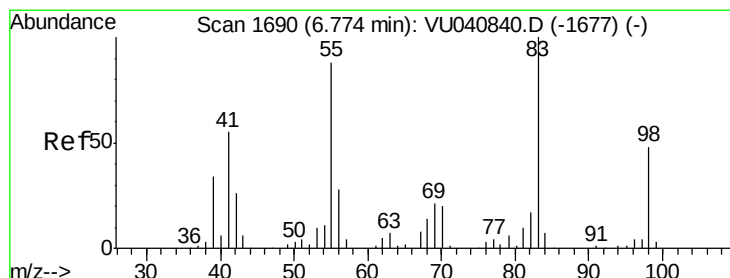
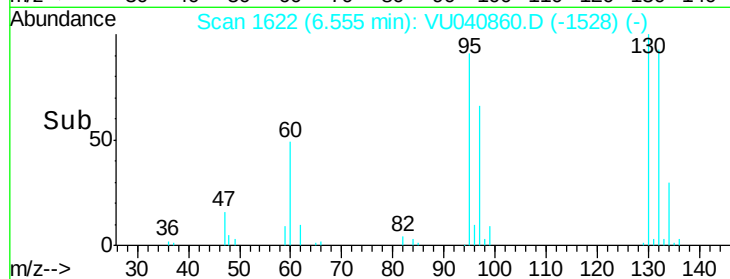
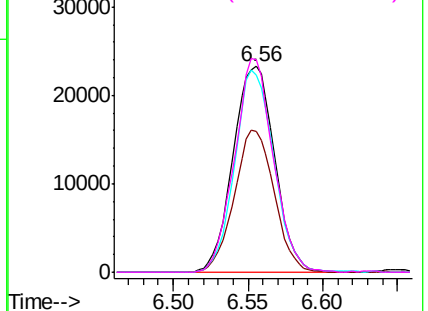
#34
 Trichloroethene
 Concen: 5.232 ug/L
 RT: 6.56 min Scan# 1622
 Delta R.T. 0.00 min
 Lab File: VU040860.D
 Acq: 20 Oct 2020 20:16

Instrument :
 MSVOA_U
 ClientSampleId :
 ETZ51

Tot Ion: 95 Resp: 45097
 Ion Ratio Lower Upper
 95 100
 97 68.3 45.5 84.5
 132 95.7 67.5 125.4
 130 103.4 69.9 129.9

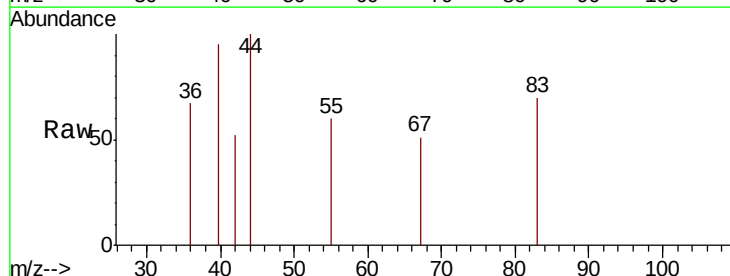


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

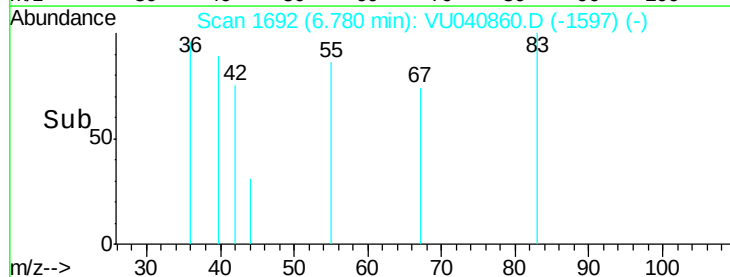
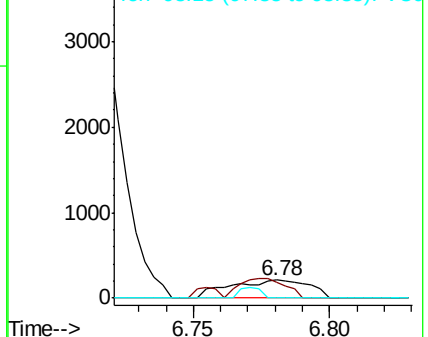


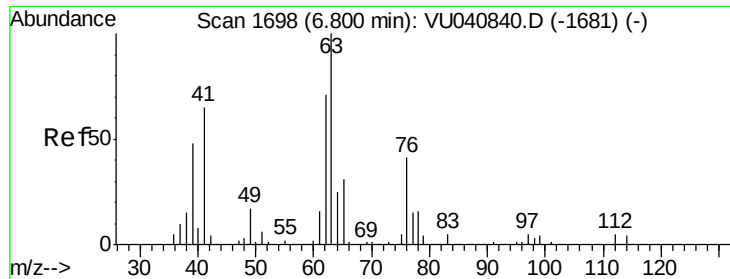
#35
 Methylcyclohexane
 Concen: 0.035 ug/L
 RT: 6.78 min Scan# 1692
 Delta R.T. 0.01 min
 Lab File: VU040860.D
 Acq: 20 Oct 2020 20:16

Tgt Ion: 83 Resp: 431
 Ion Ratio Lower Upper
 83 100
 55 61.5 70.7 106.1#
 98 15.5 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

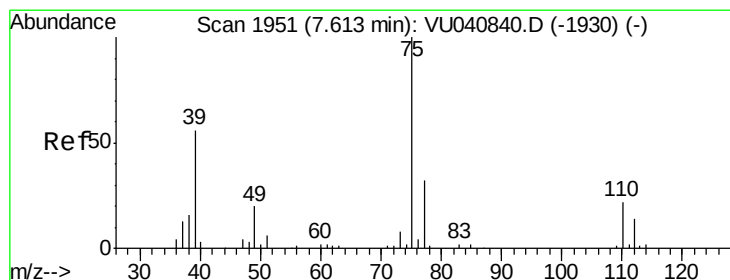
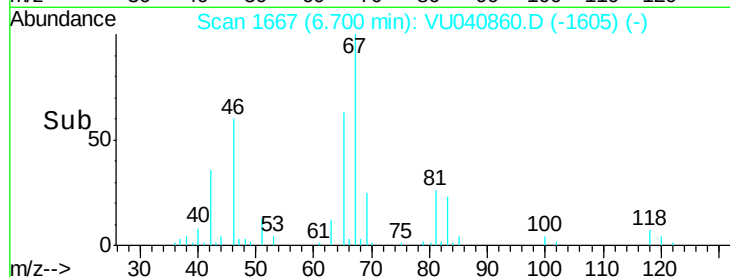
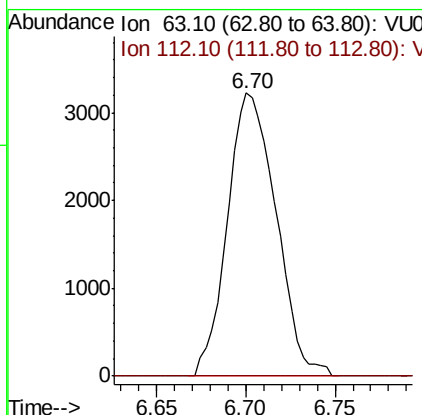
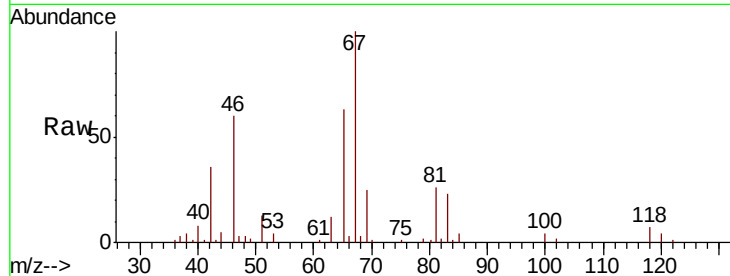




#37
 1,2-Dichloropropane
 Concen: 0.661 ug/L
 RT: 6.70 min Scan# 1667
 Delta R.T. -0.10 min
 Lab File: VU040860.D
 Acq: 20 Oct 2020 20:16

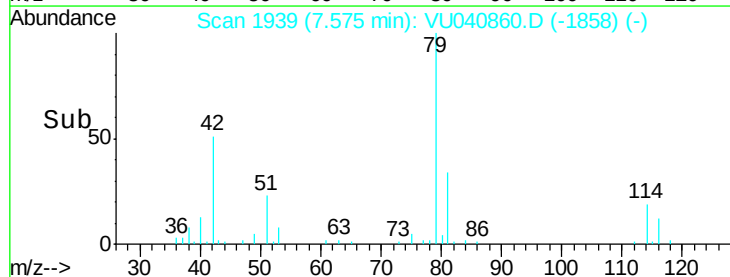
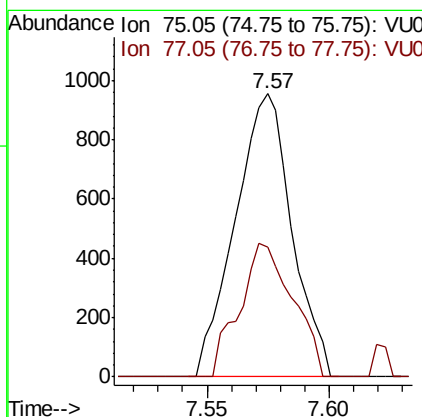
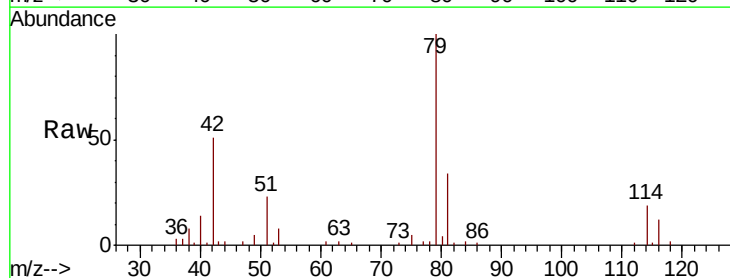
Instrument :
 MSVOA_U
 ClientSampleId :
 ETZ51

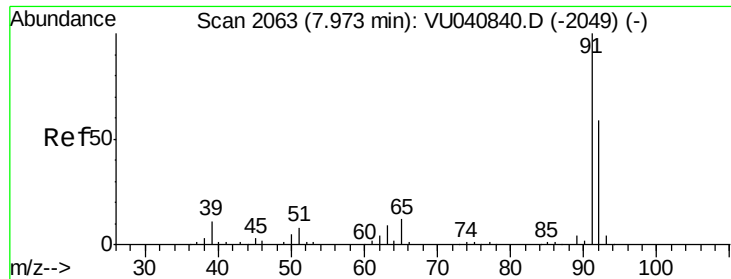
Tot Ion: 63 Resp: 6124
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.5 5.3#



#39
 cis-1,3-Dichloropropene
 Concen: 0.121 ug/L
 RT: 7.57 min Scan# 1939
 Delta R.T. -0.04 min
 Lab File: VU040860.D
 Acq: 20 Oct 2020 20:16

Tgt Ion: 75 Resp: 1537
 Ion Ratio Lower Upper
 75 100
 77 45.7 20.5 38.1#





#42

Toluene

Concen: 0.101 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VU040860.D

Acq: 20 Oct 2020 20:16

Instrument :

MSVOA_U

ClientSampleId :

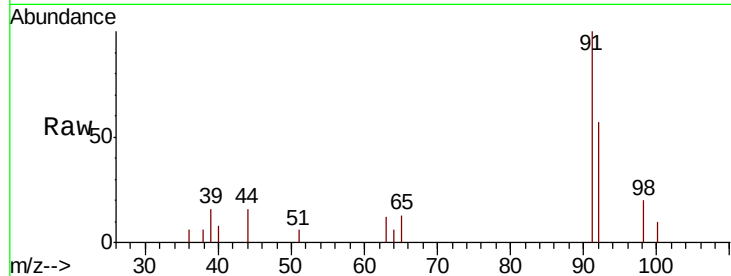
ETZ51

Tot Ion: 91 Resp: 3408

Ion Ratio Lower Upper

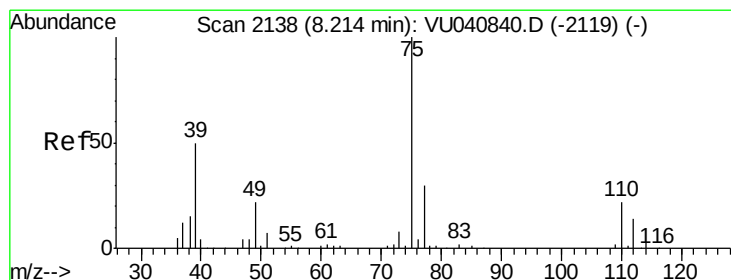
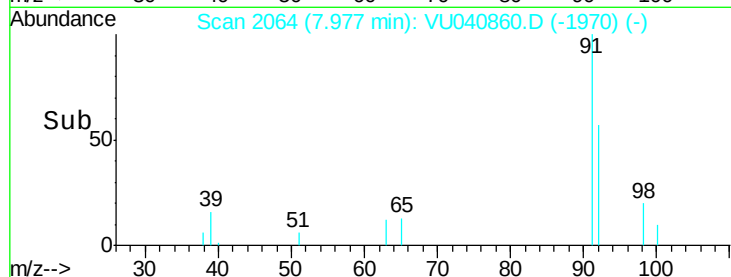
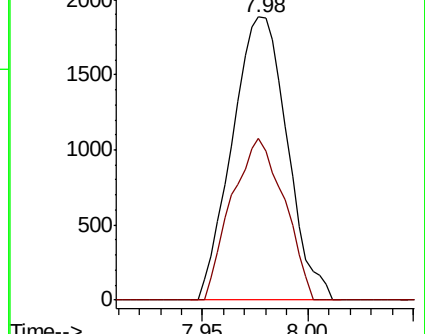
91 100

92 57.2 40.2 74.6



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0



#44

trans-1,3-Dichloropropene

Concen: 0.090 ug/L

RT: 8.19 min Scan# 2129

Delta R.T. -0.03 min

Lab File: VU040860.D

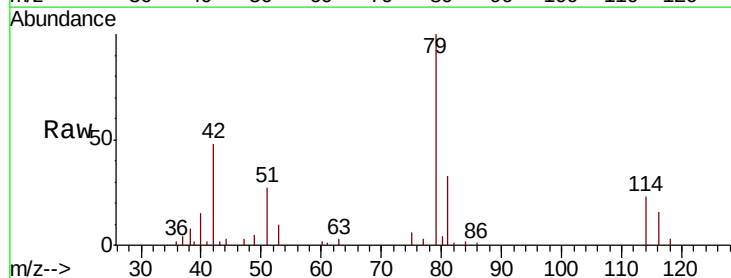
Acq: 20 Oct 2020 20:16

Tgt Ion: 75 Resp: 1047

Ion Ratio Lower Upper

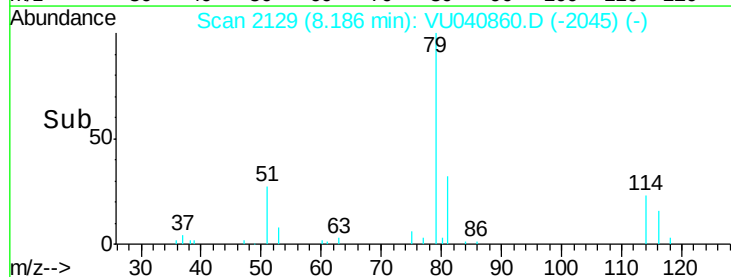
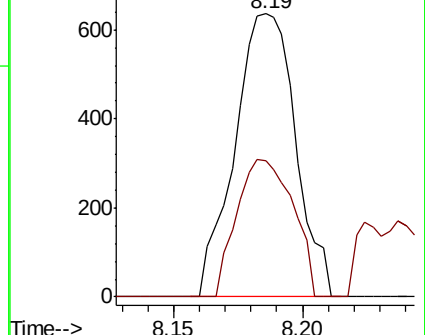
75 100

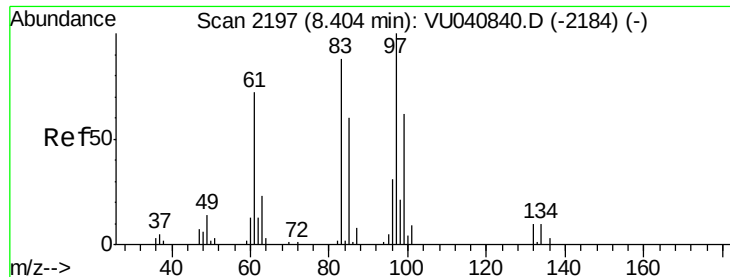
77 48.3 20.4 38.0#



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0

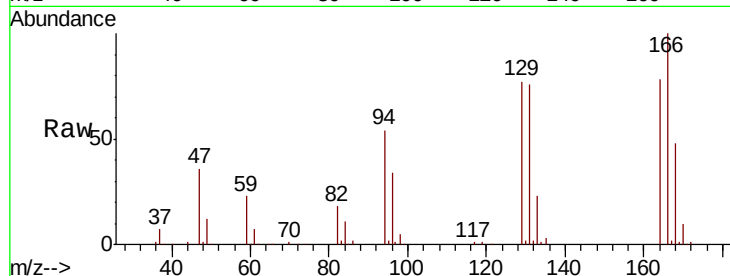




#45
 1,1,2-Trichloroethane
 Concen: 0.102 ug/L
 RT: 8.56 min Scan# 2245
 Delta R.T. 0.15 min
 Lab File: VU040860.D
 Acq: 20 Oct 2020 20:16

Instrument :
 MSVOA_U
 ClientSampleId :
 ETZ51

Tot Ion:	97	Resp:	706
Ion	Ratio	Lower	Upper
97	100		
99	24.2	44.0	81.6#
83	282.2	62.9	116.9#
85	26.4	40.3	74.8#



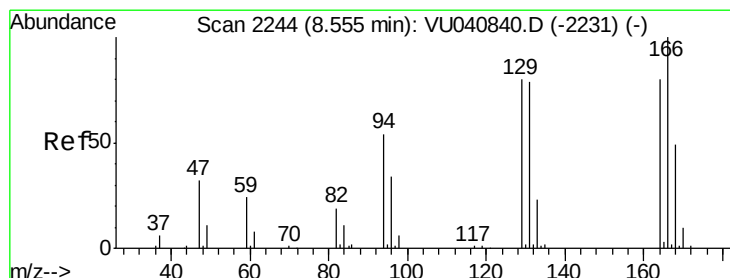
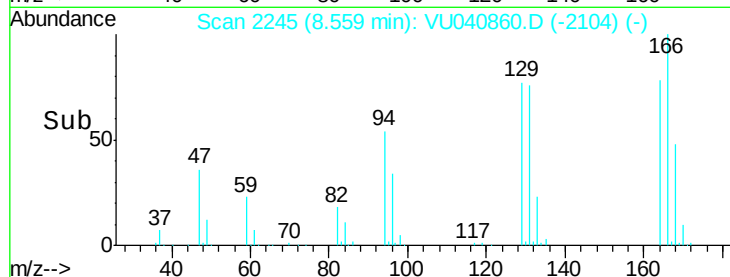
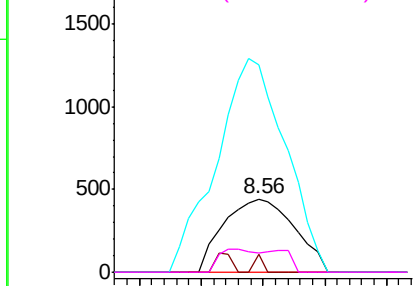
Abundance

Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

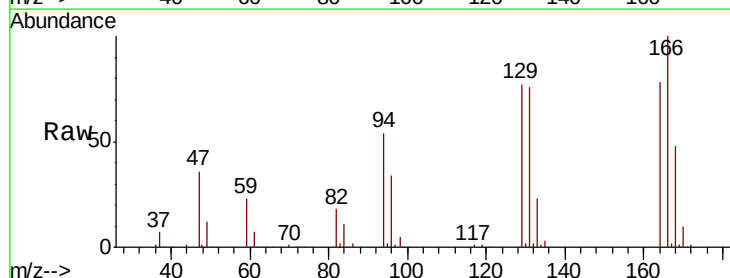
Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0



#47
 Tetrachloroethene
 Concen: 12.545 ug/L
 RT: 8.56 min Scan# 2245
 Delta R.T. 0.00 min
 Lab File: VU040860.D
 Acq: 20 Oct 2020 20:16

Tgt Ion:	164	Resp:	77140
Ion	Ratio	Lower	Upper
164	100		
129	98.5	68.8	127.8
131	96.7	66.7	123.9
166	127.4	83.9	155.7



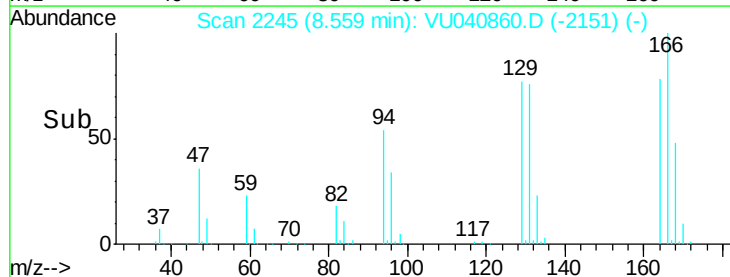
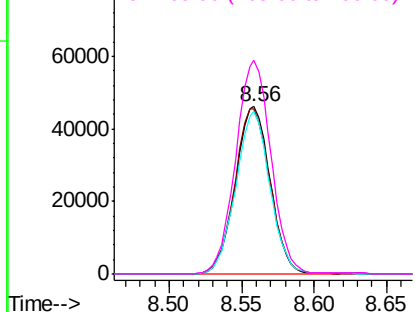
Abundance

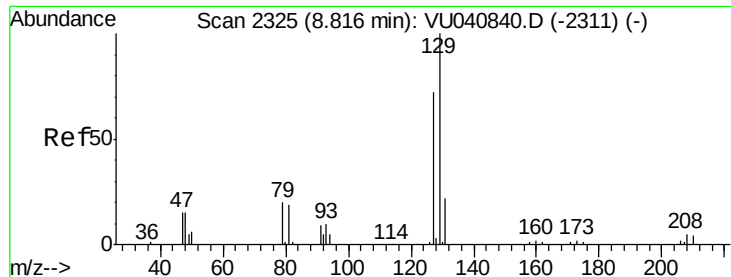
Ion 163.90 (163.60 to 164.60): V

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





#49

Dibromochloromethane

Concen: 9.580 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. -0.26 min

Lab File: VU040860.D

Acq: 20 Oct 2020 20:16

Instrument :

MSVOA_U

ClientSampleId :

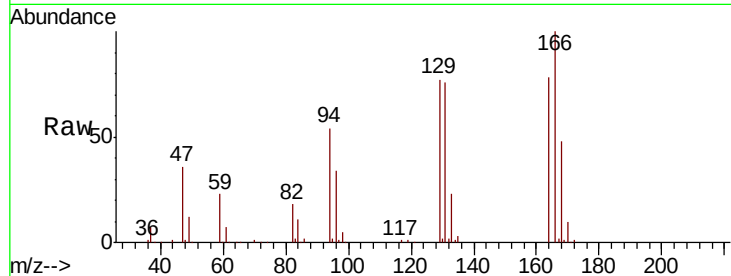
ETZ51

Tot Ion:129 Resp: 76487

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

8.56

50000

40000

30000

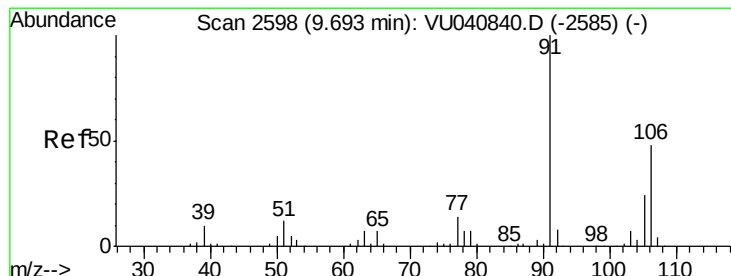
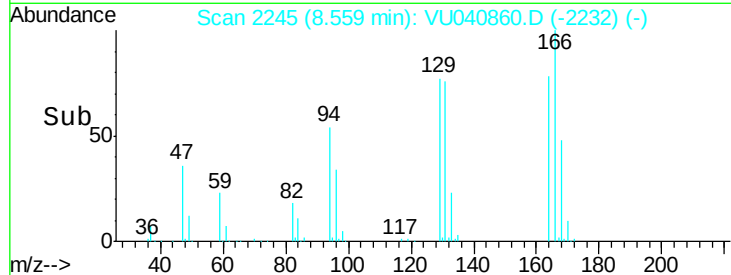
20000

10000

0

8.50 8.55 8.60 8.65

Time-->



#53

m,p-Xylene

Concen: 0.078 ug/L

RT: 9.69 min Scan# 2597

Delta R.T. -0.00 min

Lab File: VU040860.D

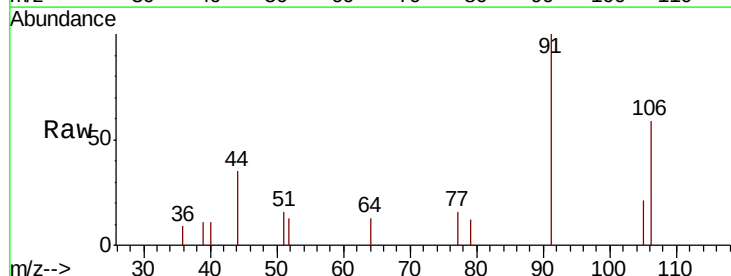
Acq: 20 Oct 2020 20:16

Tgt Ion:106 Resp: 1039

Ion Ratio Lower Upper

106 100

91 170.2 148.5 275.7



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0

9.69

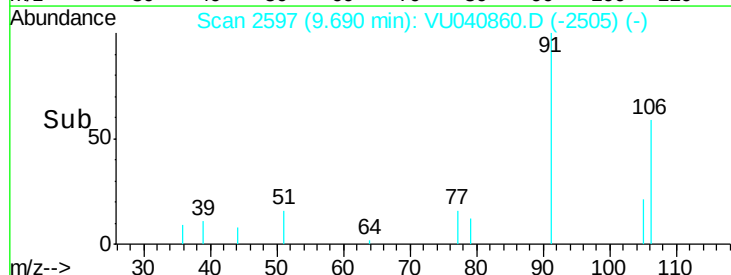
1000

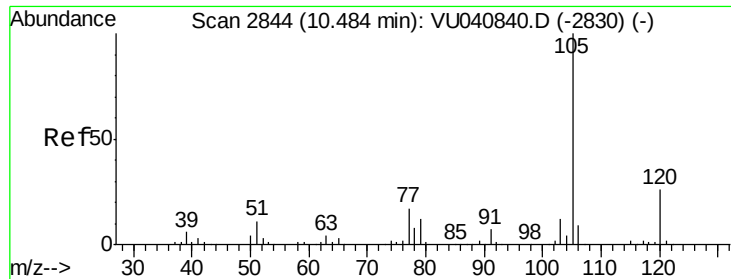
500

0

9.65 9.70

Time-->





#56

Isopropylbenzene

Concen: 0.063 ug/L

RT: 10.49 min Scan# 2845

Delta R.T. 0.00 min

Lab File: VU040860.D

Acq: 20 Oct 2020 20:16

Instrument :

MSVOA_U

ClientSampled :

ETZ51

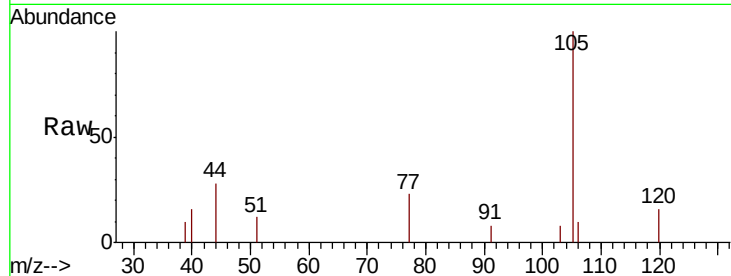
Tot Ion:105 Resp: 2183

Ion Ratio Lower Upper

105 100

120 16.9 20.6 30.8#

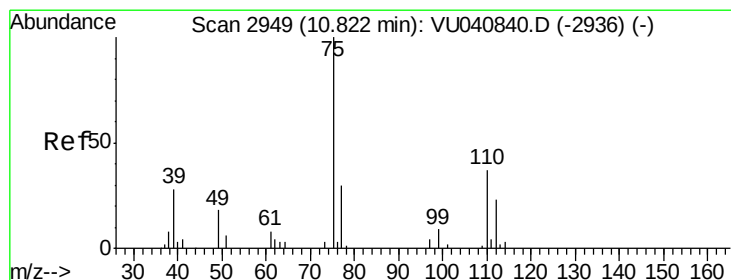
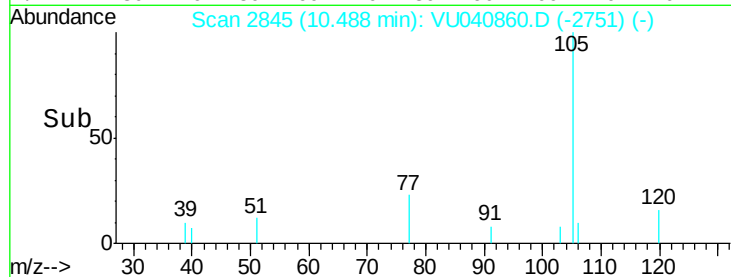
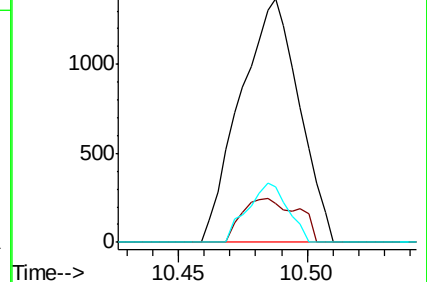
77 16.7 13.8 20.6



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#59

1,2,3-Trichloropropane

Concen: 0.812 ug/L

RT: 11.81 min Scan# 3256

Delta R.T. 0.99 min

Lab File: VU040860.D

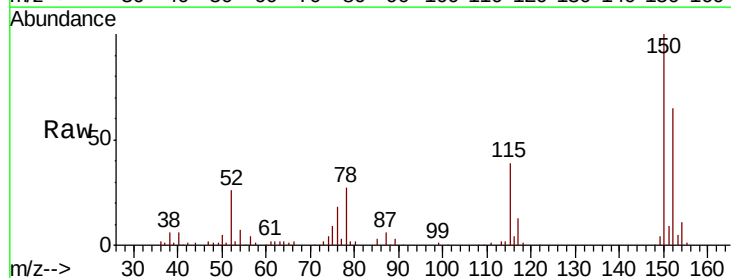
Acq: 20 Oct 2020 20:16

Tgt Ion: 75 Resp: 5526

Ion Ratio Lower Upper

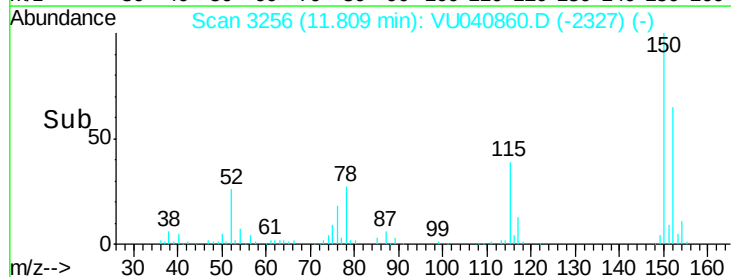
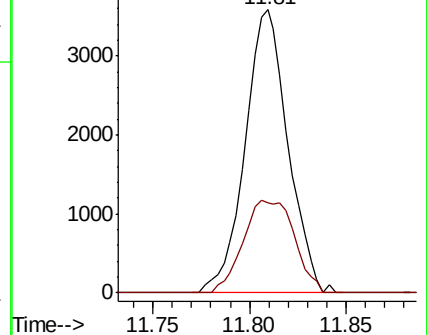
75 100

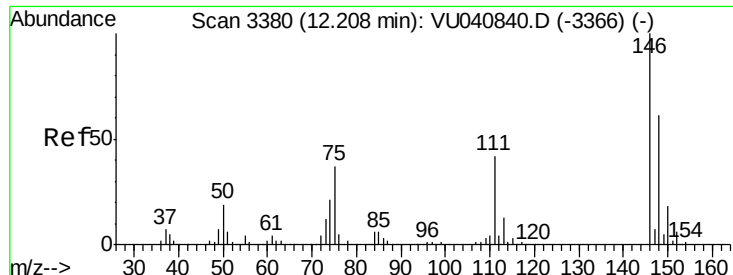
77 38.8 26.4 39.6



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0





#65

1,2-Dichlorobenzene

Concen: 0.156 ug/L

RT: 12.21 min Scan# 3380

Delta R.T. 0.00 min

Lab File: VU040860.D

Acq: 20 Oct 2020 20:16

Instrument :

MSVOA_U

ClientSampleId :

ETZ51

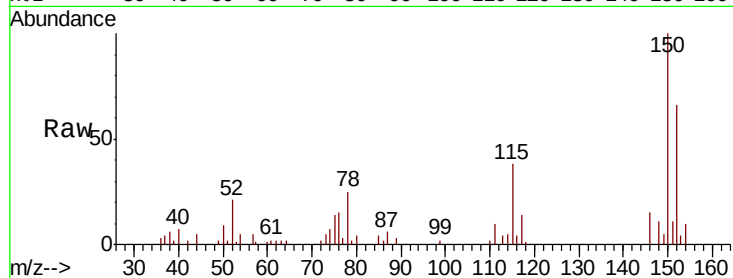
Tot Ion:146 Resp: 2150

Ion Ratio Lower Upper

146 100

111 65.8 34.4 51.6#

148 69.7 50.0 75.0



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

