

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U071720\
 Data File : VU039560.D
 Acq On : 17 Jul 2020 19:07
 Operator : SY/MD
 Sample : L3292-16
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BFT91

Quant Time: Jul 17 23:45:18 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR070720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Jul 17 23:38:36 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	94998	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	98224	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	44177	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	19736	3.59	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	71.80%
7) Chloroethane-d5	1.93	69	23421	4.16	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	83.20%
11) 1,1-Dichloroethene-d2	2.59	63	61072	5.64	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	112.80%
20) 2-Butanone-d5	4.65	46	101274	40.20	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	80.40%
24) Chloroform-d	5.08	84	50289	4.29	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	85.80%
26) 1,2-Dichloroethane-d4	5.72	65	32452	4.41	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	88.20%
32) Benzene-d6	5.75	84	96558	4.08	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	81.60%
36) 1,2-Dichloropropane-d6	6.71	67	32019	3.85	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	77.00%
41) Toluene-d8	7.91	98	86691	4.23	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	84.60%
43) trans-1,3-Dichloropropene-	8.19	79	13168	3.59	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	71.80%
46) 2-Hexanone-d5	8.64	63	71293	32.76	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	65.52%
57) 1,1,2,2-Tetrachloroethane-	10.76	84	31019	3.77	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	75.40%
64) 1,2-Dichlorobenzene-d4	12.19	152	35041	4.44	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	88.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	784	0.136	ug/L 92
3) Chloromethane	1.53	50	879	0.126	ug/L # 79
5) Vinyl chloride	1.61	62	2426	0.313	ug/L # 79
9) Trichlorofluoromethane	2.15	101	6206	0.461	ug/L 97
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	20339	3.685	ug/L 99
12) 1,1-Dichloroethene	2.59	96	51876	9.182	ug/L # 80
13) Acetone	2.66	43	4642	3.414	ug/L 67
14) Carbon disulfide	2.81	76	6935	0.348	ug/L 97
16) Methylene chloride	3.06	84	568	0.080	ug/L 96
17) Methyl tert-butyl Ether	3.39	73	7767	0.436	ug/L # 86
18) trans-1,2-Dichloroethene	3.38	96	593	0.095	ug/L 87
19) 1,1-Dichloroethane	3.89	63	15647	1.279	ug/L 99
22) cis-1,2-Dichloroethene	4.69	96	74914	10.682	ug/L 99
25) Chloroform	5.11	83	7311	0.592	ug/L 95
27) 1,2-Dichloroethane	5.81	62	2044	0.229	ug/L # 78
29) 1,1,1-Trichloroethane	5.34	97	20402	1.763	ug/L 98
31) Carbon tetrachloride	5.33	117	2582	0.262	ug/L 95

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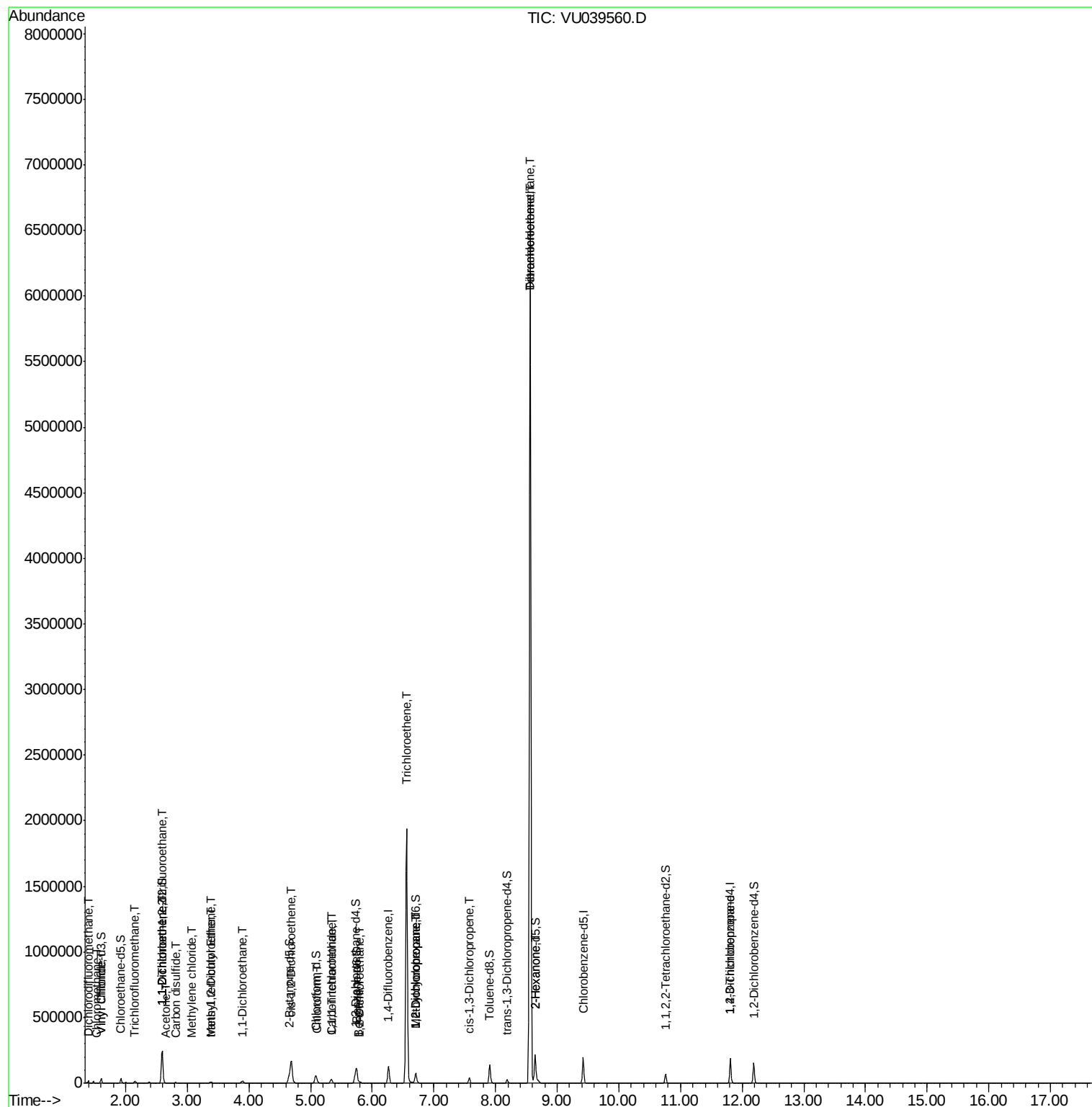
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) Benzene	5.79	78	7615	0.259	ug/L	100
34) Trichloroethene	6.56	95	622361	81.976	ug/L	98
35) Methylcyclohexane	6.71	83	7545	0.620	ug/L #	19
37) 1,2-Dichloropropane	6.70	63	3982	0.497	ug/L #	91
39) cis-1,3-Dichloropropene	7.57	75	1274	0.105	ug/L #	50
47) Tetrachloroethene	8.56	164	1170652	221.676	ug/L	96
48) 2-Hexanone	8.64	43	9906	2.012	ug/L #	72
49) Dibromochloromethane	8.56	129	1176489	168.920	ug/L #	10
59) 1,2,3-Trichloropropane	11.81	75	6949	1.178	ug/L	93

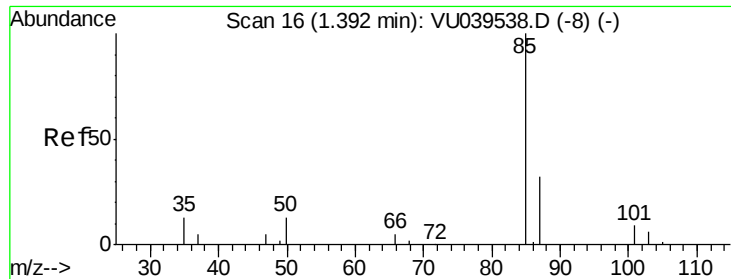
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 0.136 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU039560.D

Acq: 17 Jul 2020 19:07

Instrument :

MSVOA_U

ClientSampleId :

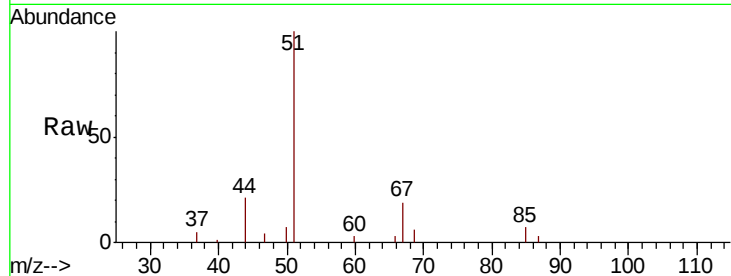
BFT91

Tot Ion: 85 Resp: 784

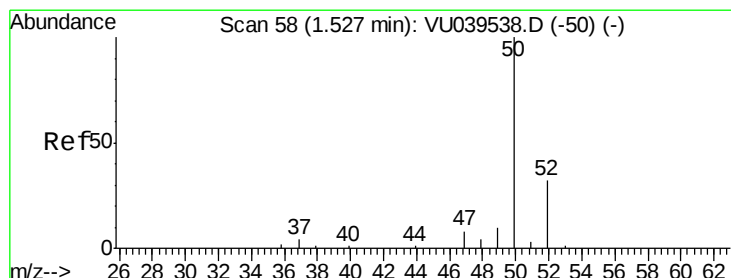
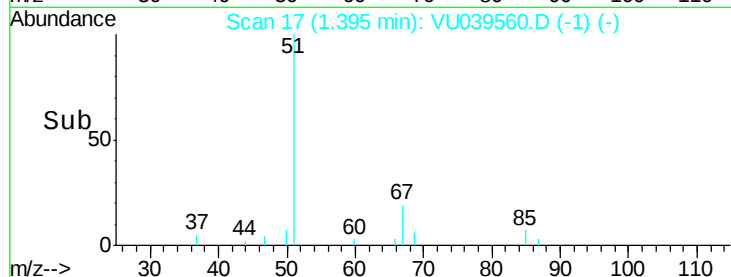
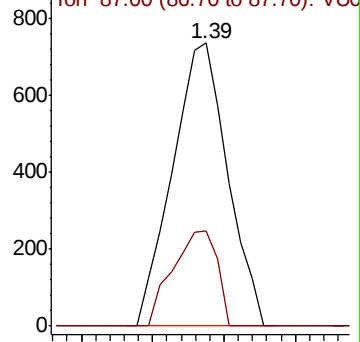
Ion Ratio Lower Upper

85 100

87 27.3 25.2 37.8



Abundance Ion 85.00 (84.70 to 85.70): VU039538.D (-8) (-)



#3

Chloromethane

Concen: 0.126 ug/L

RT: 1.53 min Scan# 58

Delta R.T. 0.00 min

Lab File: VU039560.D

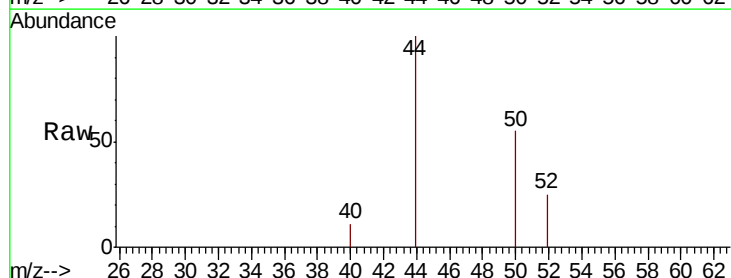
Acq: 17 Jul 2020 19:07

Tgt Ion: 50 Resp: 879

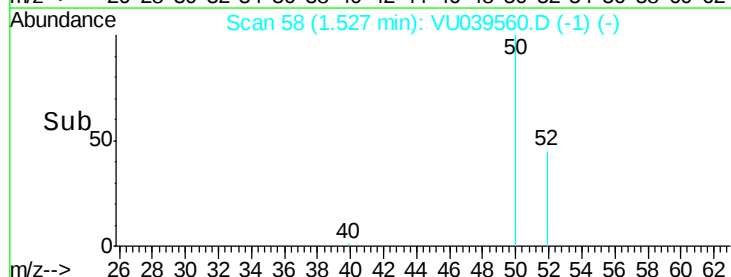
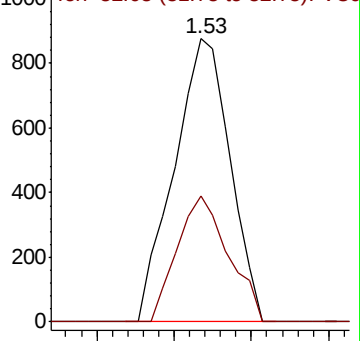
Ion Ratio Lower Upper

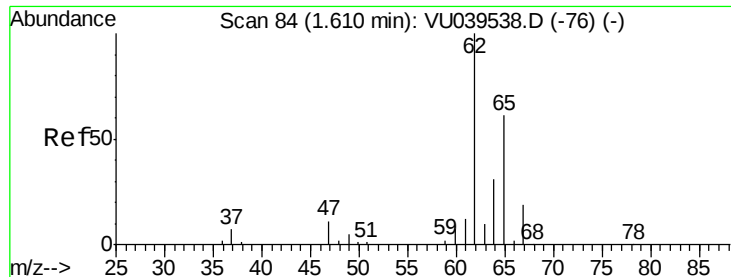
50 100

52 44.5 23.0 42.8#



Abundance Ion 50.05 (49.75 to 50.75): VU039538.D (-50) (-)





#5

Vinyl chloride

Concen: 0.313 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU039560.D

Acq: 17 Jul 2020 19:07

Instrument :

MSVOA_U

ClientSampleId :

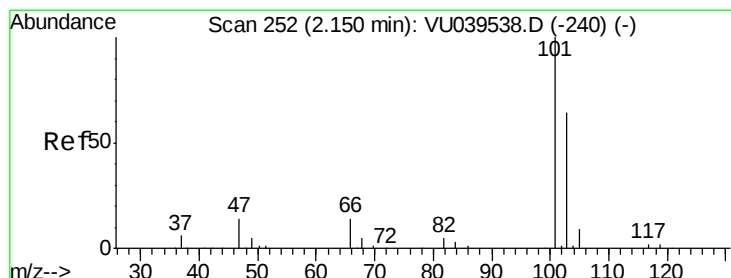
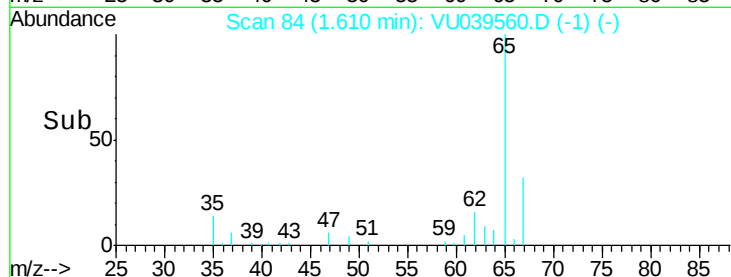
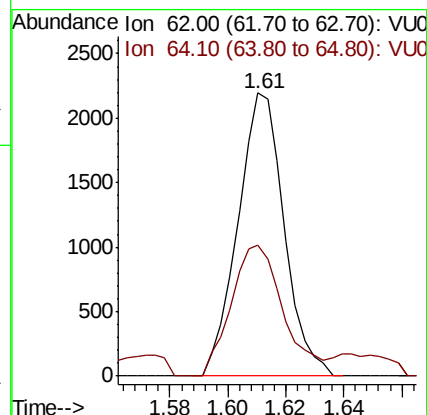
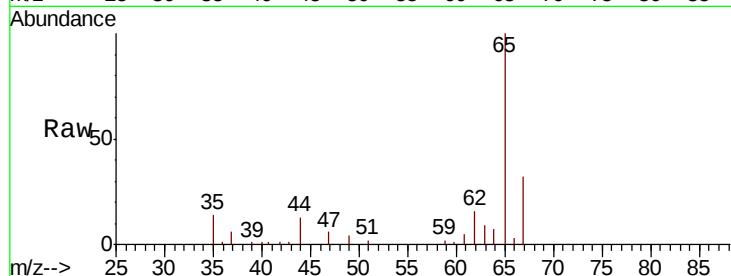
BFT91

Tot Ion: 62 Resp: 2426

Ion Ratio Lower Upper

62 100

64 46.1 23.7 44.1#



#9

Trichlorofluoromethane

Concen: 0.461 ug/L

RT: 2.15 min Scan# 252

Delta R.T. 0.00 min

Lab File: VU039560.D

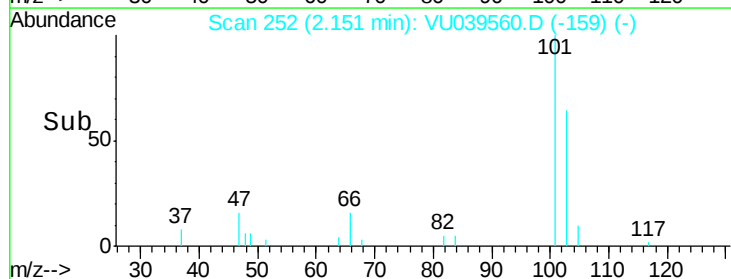
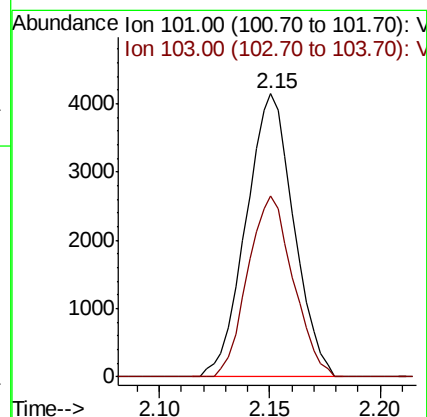
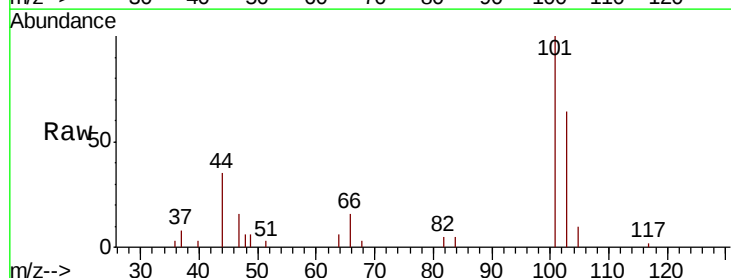
Acq: 17 Jul 2020 19:07

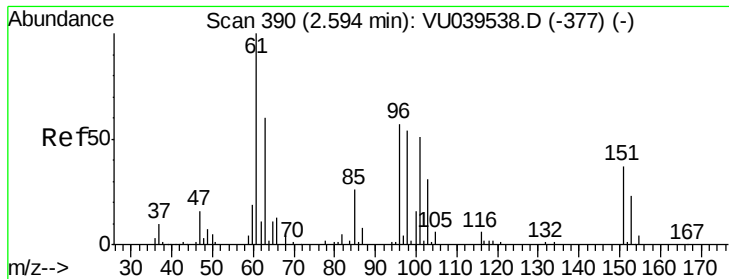
Tgt Ion: 101 Resp: 6206

Ion Ratio Lower Upper

101 100

103 60.8 50.6 76.0





#10

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

Concen: 3.685 ug/L

RT: 2.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU039560.D

Acq: 17 Jul 2020 19:07

Instrument :

MSVOA_U

ClientSampled :

BFT91

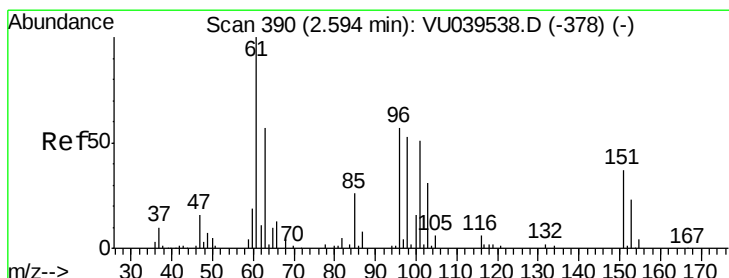
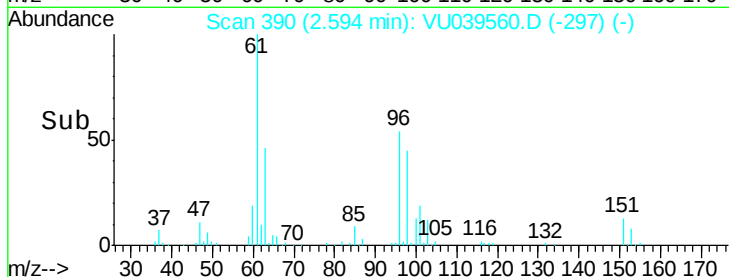
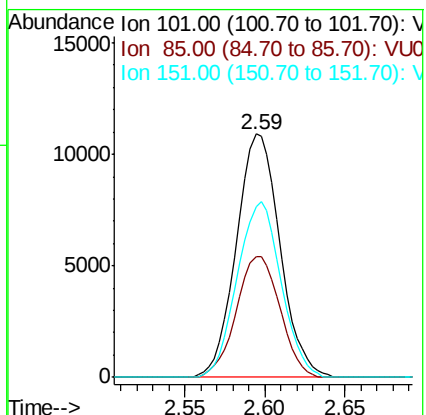
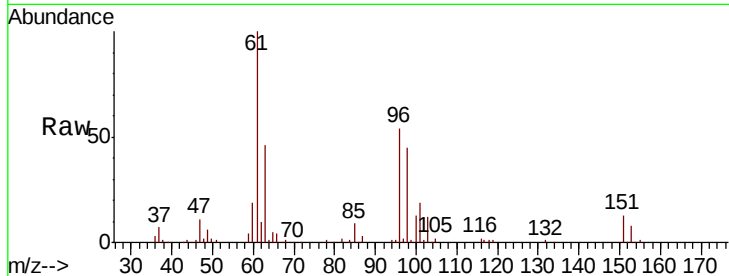
Tot Ion:101 Resp: 20339

Ion Ratio Lower Upper

101 100

85 49.7 38.9 58.3

151 72.2 57.0 85.4



#12

1,1-Dichloroethene

Concen: 9.182 ug/L

RT: 2.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU039560.D

Acq: 17 Jul 2020 19:07

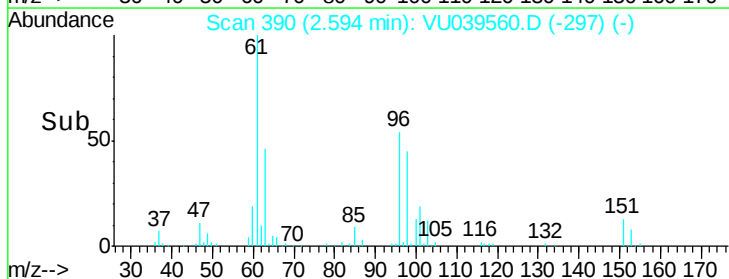
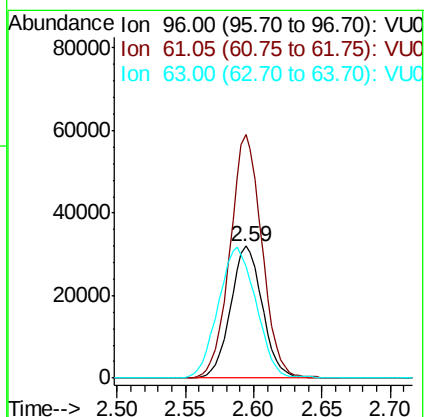
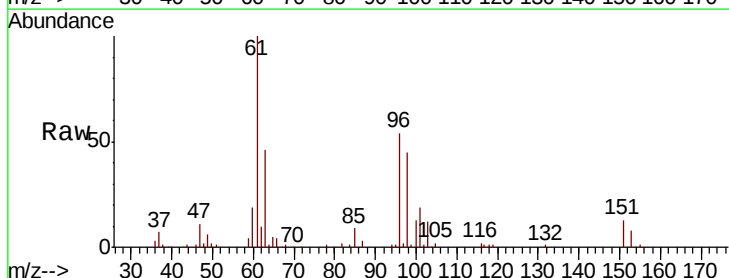
Tgt Ion: 96 Resp: 51876

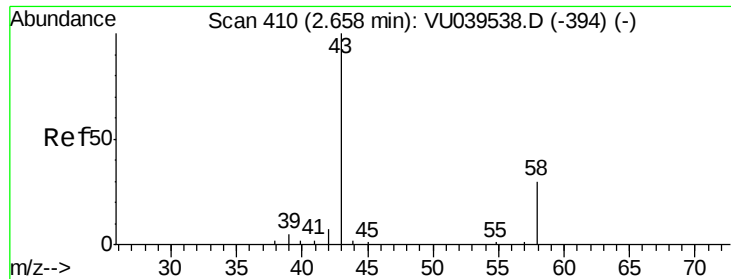
Ion Ratio Lower Upper

96 100

61 184.8 125.4 232.8

63 84.6 92.7 172.3#





#13

Acetone

Concen: 3.414 ug/L

RT: 2.66 min Scan# 410

Delta R.T. 0.00 min

Lab File: VU039560.D

Acq: 17 Jul 2020 19:07

Instrument :

MSVOA_U

ClientSampleId :

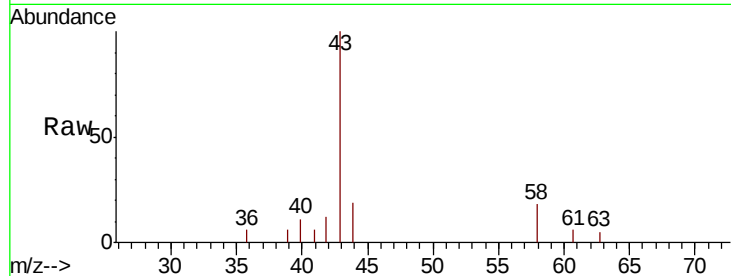
BFT91

Tot Ion: 43 Resp: 4642

Ion Ratio Lower Upper

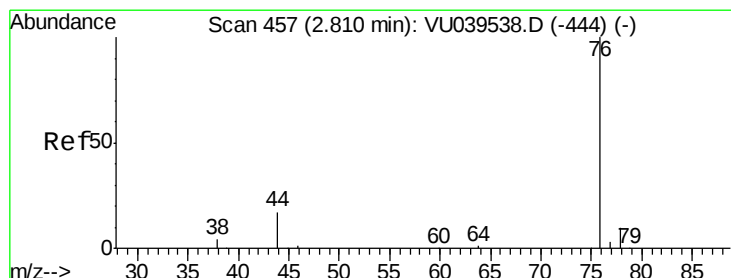
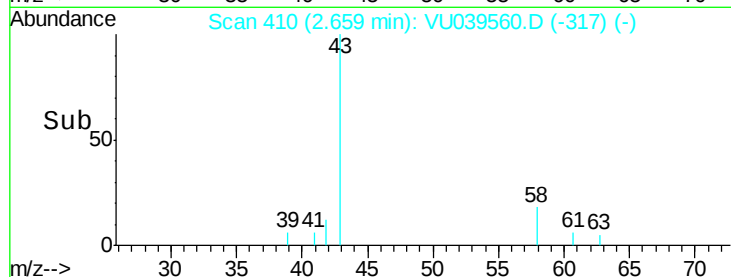
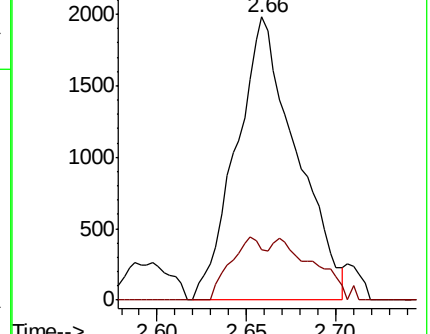
43 100

58 13.0 0.0 62.8



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0



#14

Carbon disulfide

Concen: 0.348 ug/L

RT: 2.81 min Scan# 456

Delta R.T. -0.00 min

Lab File: VU039560.D

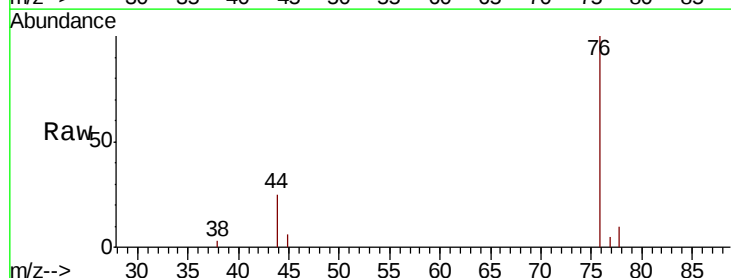
Acq: 17 Jul 2020 19:07

Tgt Ion: 76 Resp: 6935

Ion Ratio Lower Upper

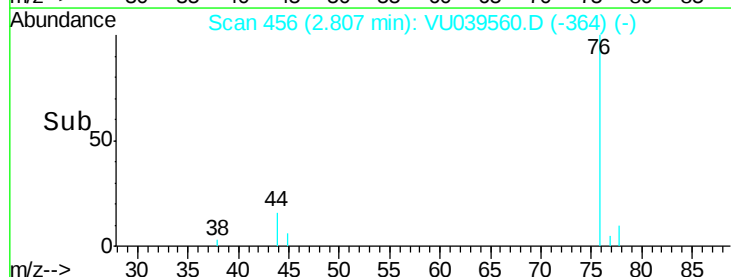
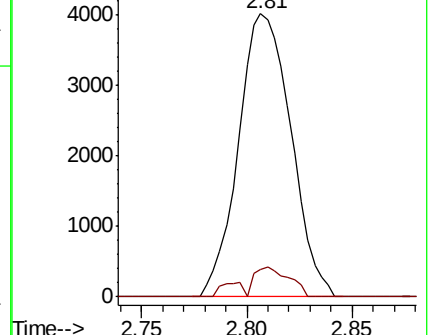
76 100

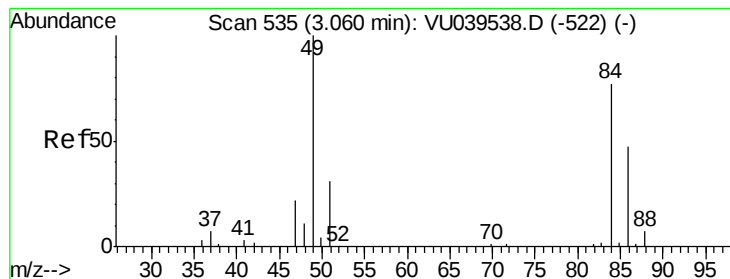
78 9.8 7.0 10.4



Abundance Ion 76.05 (75.75 to 76.75): VU0

Ion 78.00 (77.70 to 78.70): VU0





#16

Methylene chloride

Concen: 0.080 ug/L

RT: 3.06 min Scan# 534

Delta R.T. -0.00 min

Lab File: VU039560.D

Acq: 17 Jul 2020 19:07

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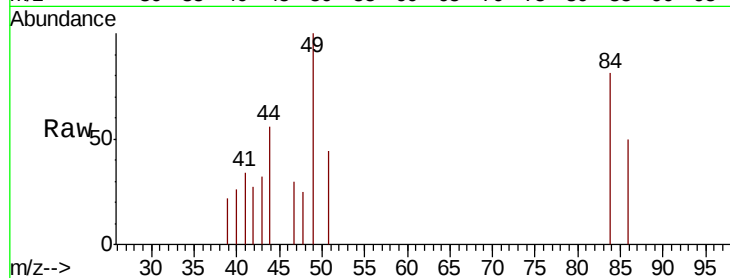
Tot Ion: 84 Resp: 568

Ion Ratio Lower Upper

84 100

86 62.0 43.5 80.9

49 123.3 91.1 169.1

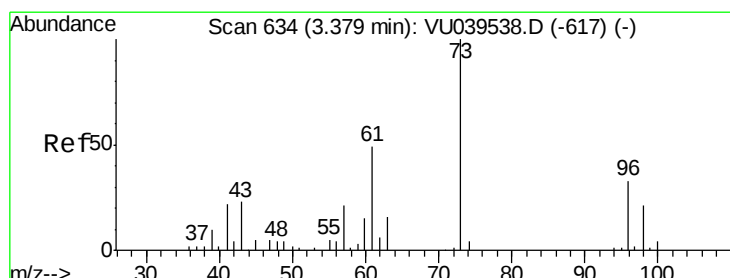
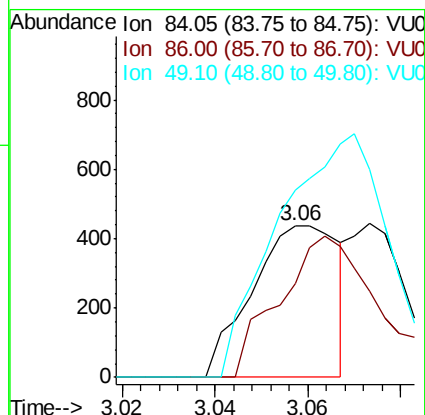
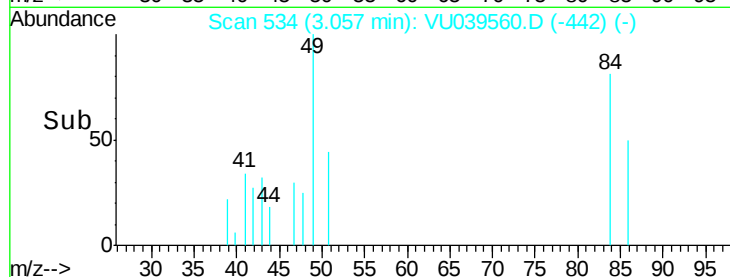


Abundance Ion 84.05 (83.75 to 84.75): VU039560.D (-442) (-)

Ion 86.00 (85.70 to 86.70): VU039560.D (-442) (-)

Ion 49.10 (48.80 to 49.80): VU039560.D (-442) (-)

Time-->



#17

Methyl tert-butyl Ether

Concen: 0.436 ug/L

RT: 3.39 min Scan# 636

Delta R.T. 0.01 min

Lab File: VU039560.D

Acq: 17 Jul 2020 19:07

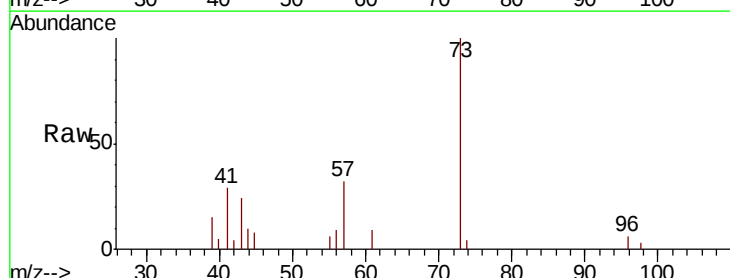
Tgt Ion: 73 Resp: 7767

Ion Ratio Lower Upper

73 100

43 27.5 18.6 28.0

57 32.0 17.9 26.9#

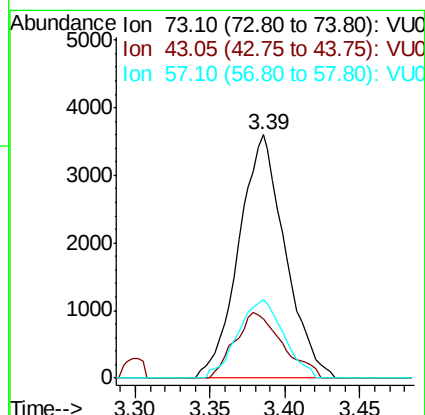
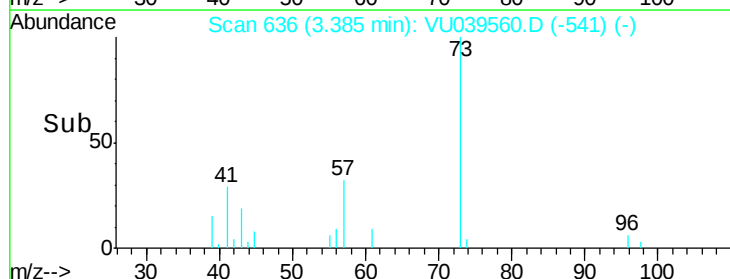


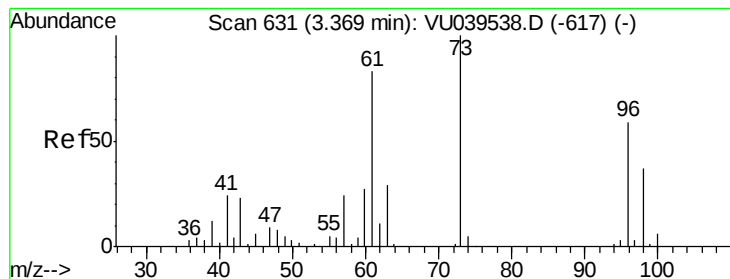
Abundance Ion 73.10 (72.80 to 73.80): VU039560.D (-541) (-)

Ion 43.05 (42.75 to 43.75): VU039560.D (-541) (-)

Ion 57.10 (56.80 to 57.80): VU039560.D (-541) (-)

Time-->





#18

trans-1,2-Dichloroethene

Concen: 0.095 ug/L

RT: 3.38 min Scan# 633

Delta R.T. 0.01 min

Lab File: VU039560.D

Acq: 17 Jul 2020 19:07

Instrument :

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ClientSampleId :

BFT91

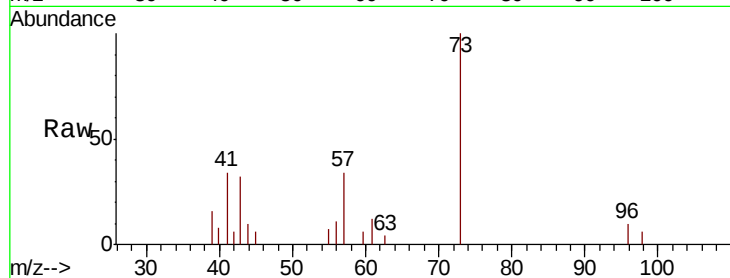
Tot Ion: 96 Resp: 593

Ion Ratio Lower Upper

96 100

61 122.5 102.1 189.5

98 60.9 42.5 78.9

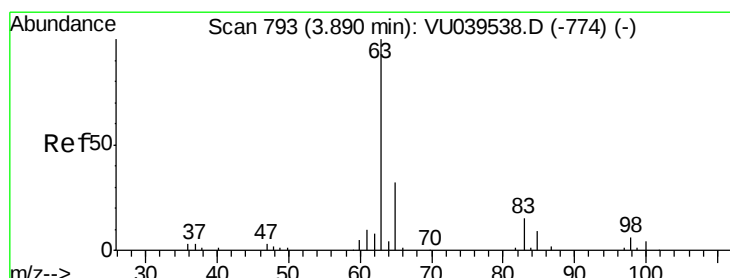
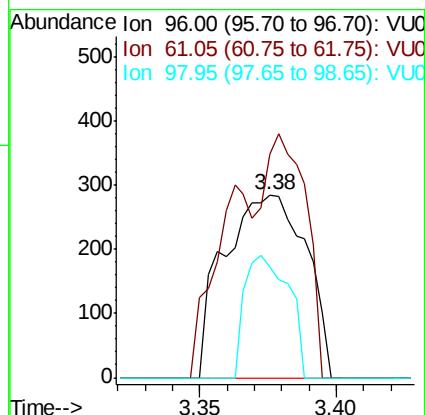
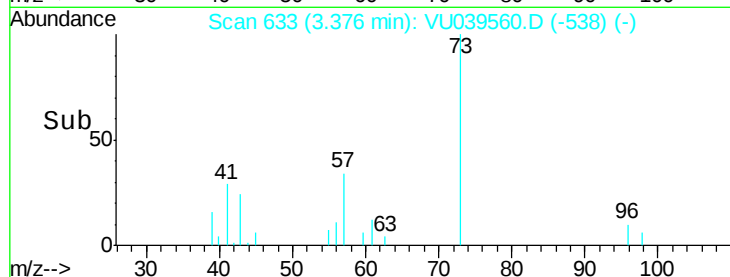


Abundance Ion 96.00 (95.70 to 96.70): VU039560.D (-538) (-)

Ion 61.05 (60.75 to 61.75): VU039560.D (-538) (-)

Ion 97.95 (97.65 to 98.65): VU039560.D (-538) (-)

Time-->



#19

1,1-Dichloroethane

Concen: 1.279 ug/L

RT: 3.89 min Scan# 794

Delta R.T. 0.00 min

Lab File: VU039560.D

Acq: 17 Jul 2020 19:07

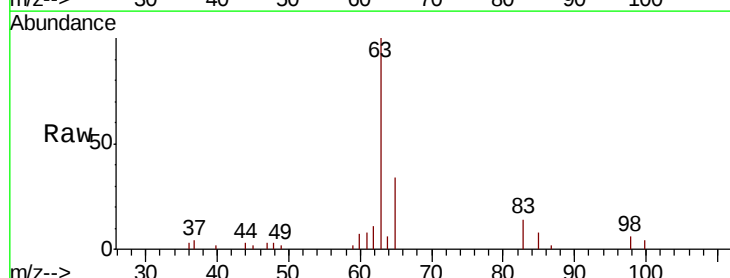
Tgt Ion: 63 Resp: 15647

Ion Ratio Lower Upper

63 100

65 32.5 23.0 42.6

83 12.8 9.6 17.8

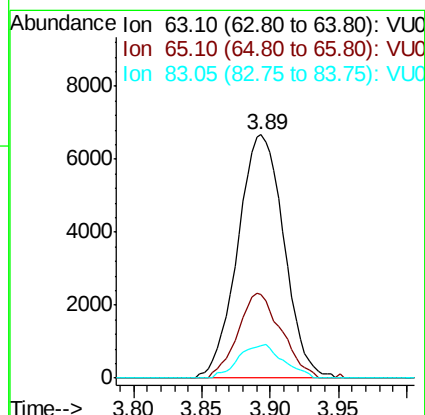
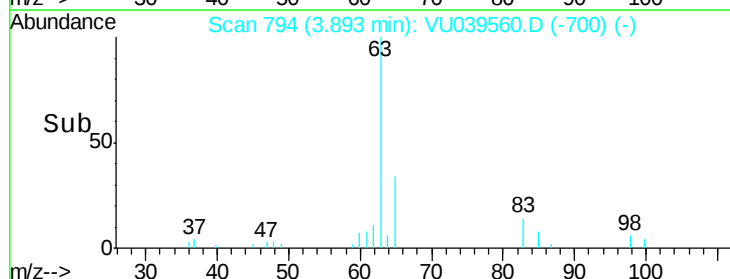


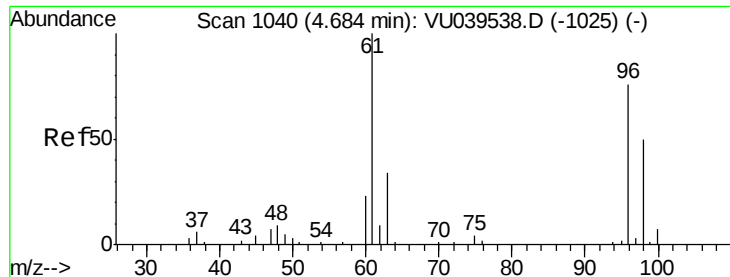
Abundance Ion 63.10 (62.80 to 63.80): VU039560.D (-700) (-)

Ion 65.10 (64.80 to 65.80): VU039560.D (-700) (-)

Ion 83.05 (82.75 to 83.75): VU039560.D (-700) (-)

Time-->





#22

cis-1,2-Dichloroethene

Concen: 10.682 ug/L

RT: 4.69 min Scan# 1041

Delta R.T. 0.00 min

Lab File: VU039560.D

Acq: 17 Jul 2020 19:07

Instrument :

MSVOA_U

ClientSampleId :

BFT91

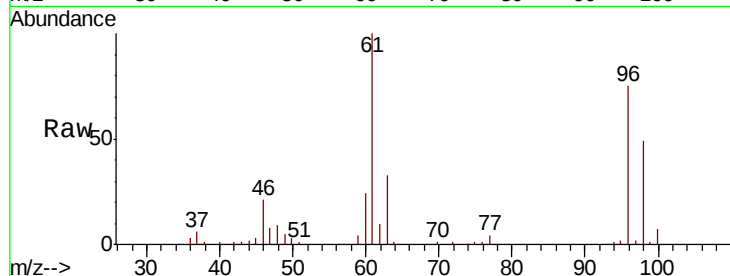
Tot Ion: 96 Resp: 74914

Ion Ratio Lower Upper

96 100

61 133.5 92.8 172.4

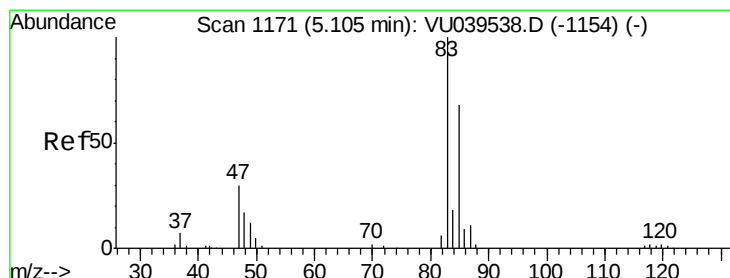
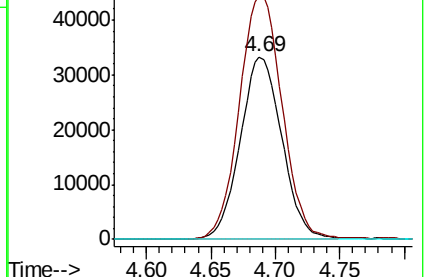
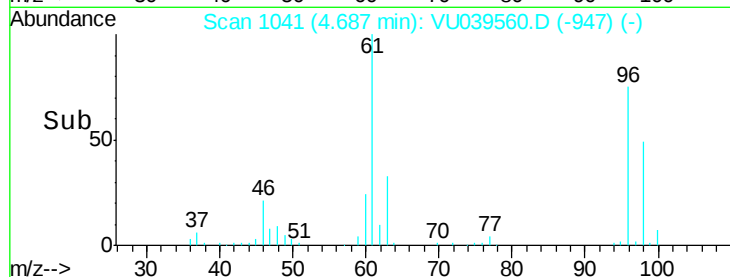
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU039560.D (-947) (-)

Ion 61.05 (60.75 to 61.75): VU039560.D (-947) (-)

Ion 68.15 (67.85 to 68.85): VU039560.D (-947) (-)



#25

Chloroform

Concen: 0.592 ug/L

RT: 5.11 min Scan# 1172

Delta R.T. 0.00 min

Lab File: VU039560.D

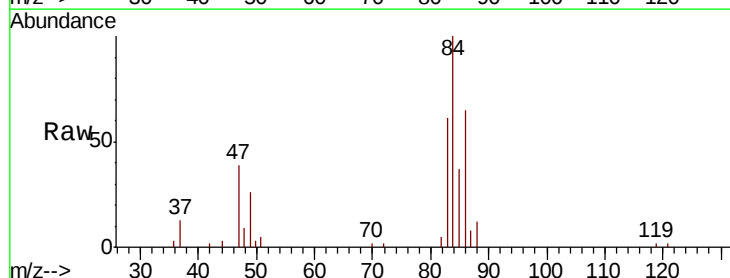
Acq: 17 Jul 2020 19:07

Tgt Ion: 83 Resp: 7311

Ion Ratio Lower Upper

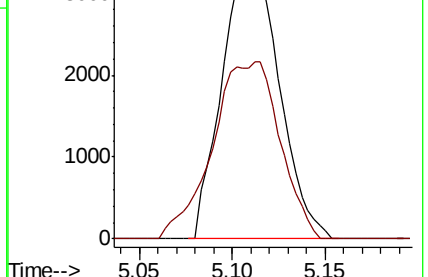
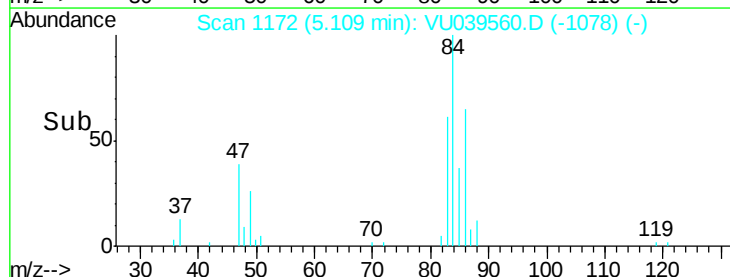
83 100

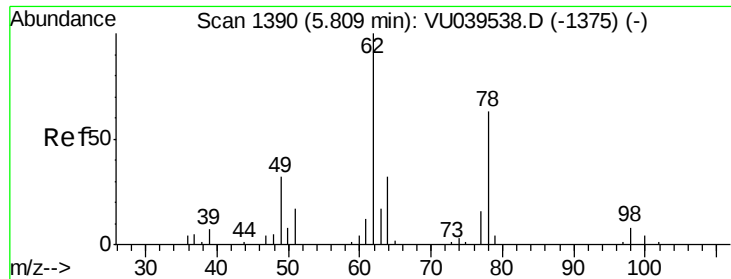
85 60.4 44.9 83.5



Abundance Ion 83.05 (82.75 to 83.75): VU039560.D (-1078) (-)

Ion 85.00 (84.70 to 85.70): VU039560.D (-1078) (-)

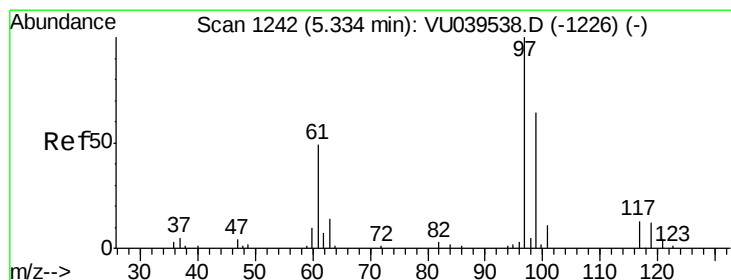
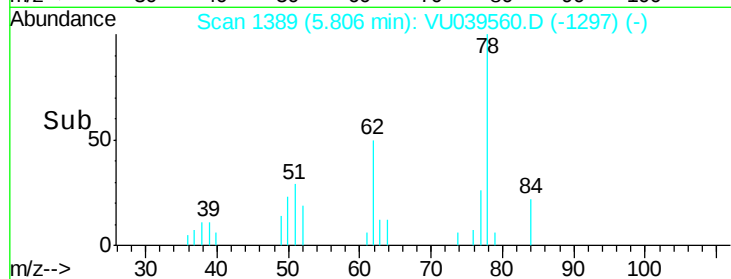
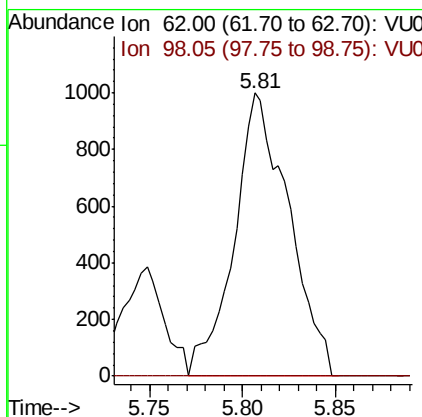
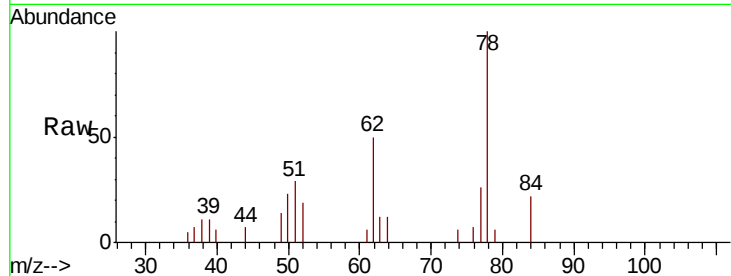




#27
 1,2-Dichloroethane
 Concen: 0.229 ug/L
 RT: 5.81 min Scan# 1389
 Delta R.T. -0.00 min
 Lab File: VU039560.D
 Acq: 17 Jul 2020 19:07

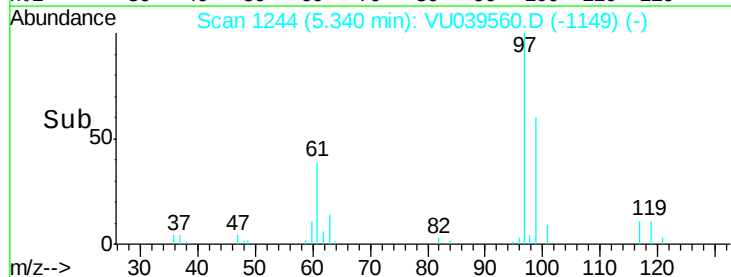
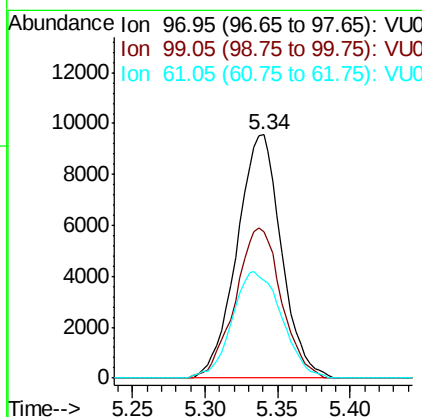
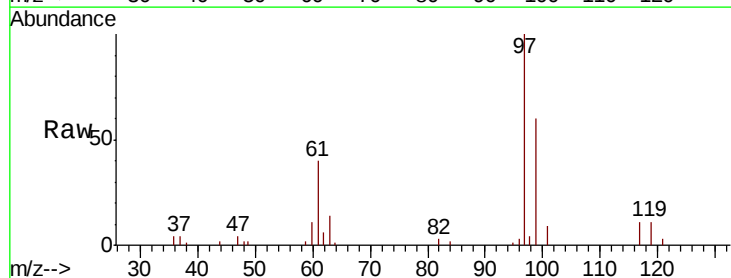
Instrument :
 MSVOA_U
 ClientSampled :
 BFT91

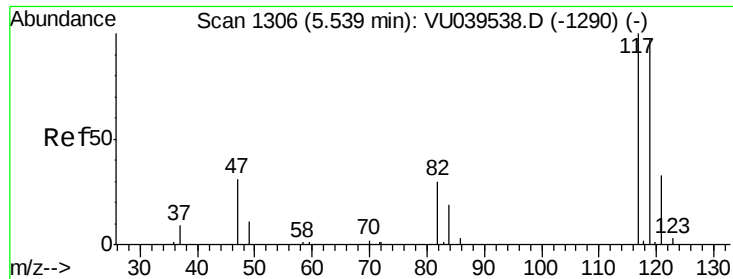
Tot Ion: 62 Resp: 2044
 Ion Ratio Lower Upper
 62 100
 98 0.0 6.3 9.5#



#29
 1,1,1-Trichloroethane
 Concen: 1.763 ug/L
 RT: 5.34 min Scan# 1244
 Delta R.T. 0.01 min
 Lab File: VU039560.D
 Acq: 17 Jul 2020 19:07

Tgt Ion: 97 Resp: 20402
 Ion Ratio Lower Upper
 97 100
 99 63.7 52.6 79.0
 61 48.5 37.9 56.9





#31

Carbon tetrachloride

Concen: 0.262 ug/L

RT: 5.33 min Scan# 1242

Delta R.T. -0.21 min

Lab File: VU039560.D

Acq: 17 Jul 2020 19:07

Instrument :

MSVOA_U

ClientSampleId :

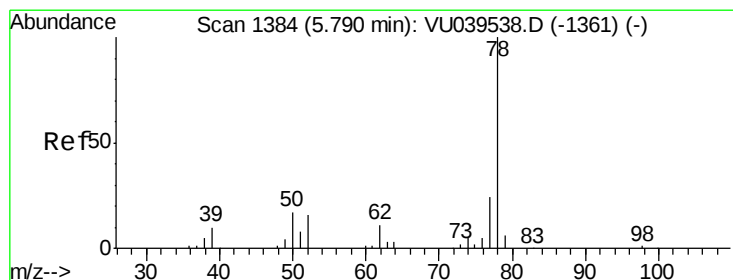
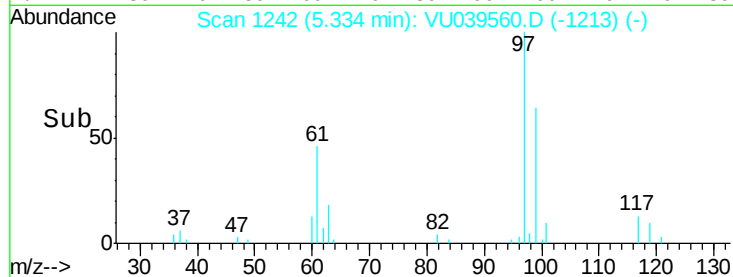
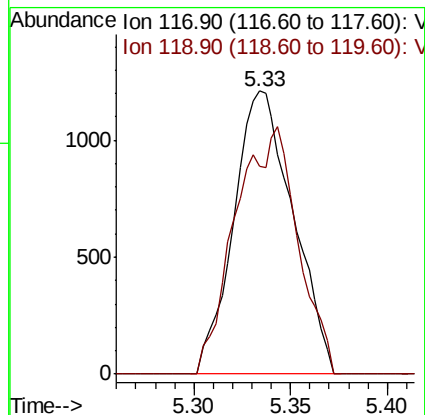
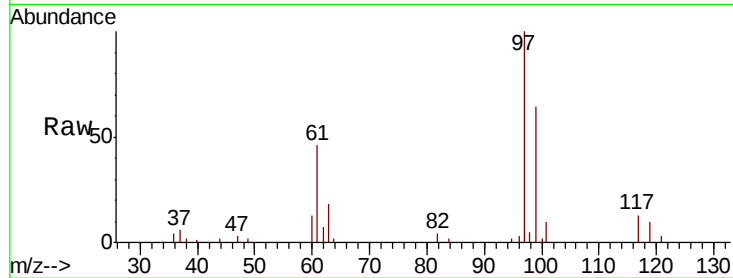
BFT91

Tot Ion:117 Resp: 2582

Ion Ratio Lower Upper

117 100

119 91.7 77.4 116.0



#33

Benzene

Concen: 0.259 ug/L

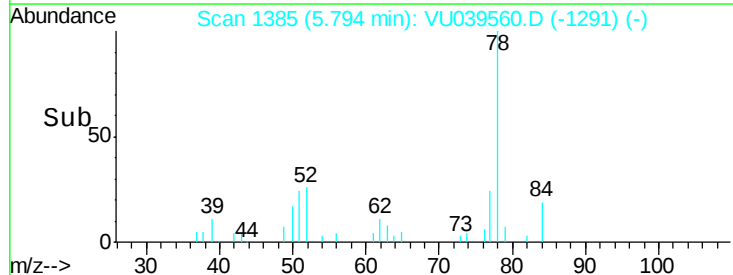
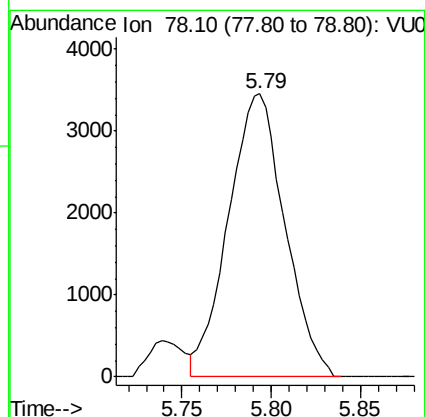
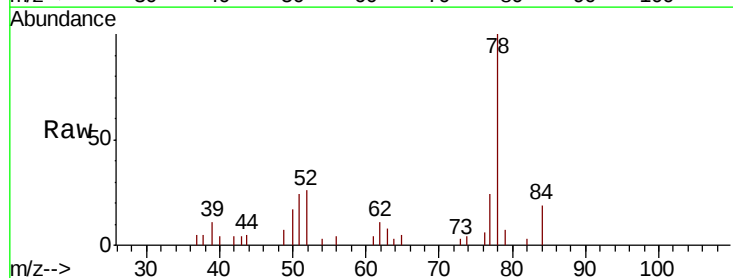
RT: 5.79 min Scan# 1385

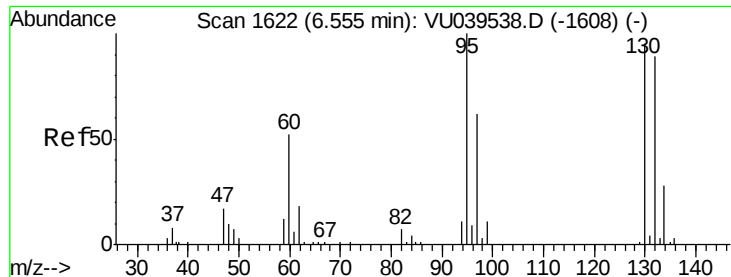
Delta R.T. 0.00 min

Lab File: VU039560.D

Acq: 17 Jul 2020 19:07

Tgt Ion: 78 Resp: 7615





#34

Trichloroethene

Concen: 81.976 ug/L

RT: 6.56 min Scan# 1622

Delta R.T. 0.00 min

Lab File: VU039560.D

Acq: 17 Jul 2020 19:07

Instrument :

MSVOA_U

ClientSampleId :

BFT91

Tot Ion: 95 Resp: 622361

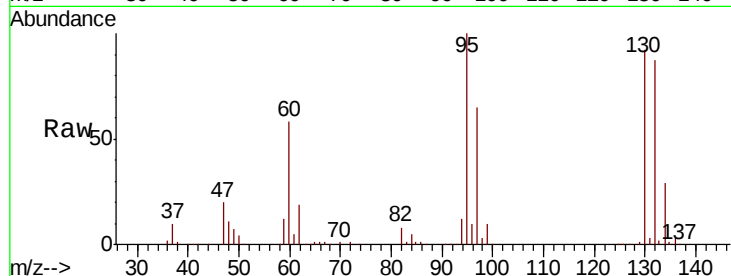
Ion Ratio Lower Upper

95 100

97 64.6 46.3 85.9

132 87.5 64.0 118.8

130 92.3 64.3 119.5

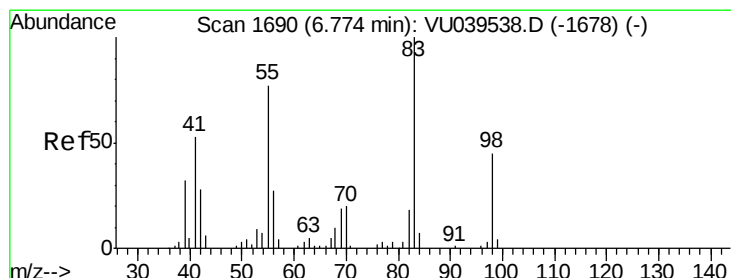
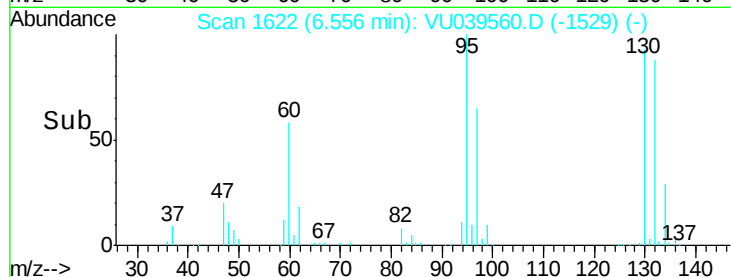
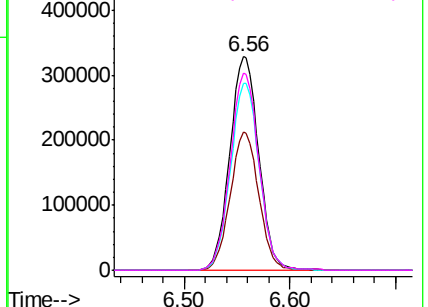


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 0.620 ug/L

RT: 6.71 min Scan# 1669

Delta R.T. -0.07 min

Lab File: VU039560.D

Acq: 17 Jul 2020 19:07

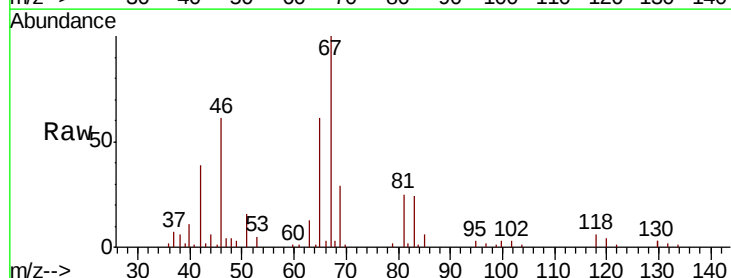
Tgt Ion: 83 Resp: 7545

Ion Ratio Lower Upper

83 100

55 0.6 62.1 93.1#

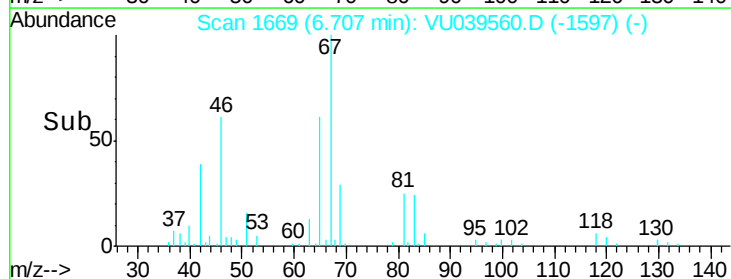
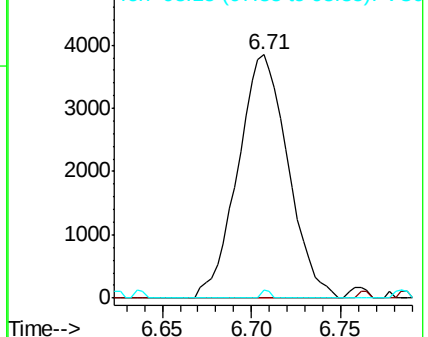
98 0.0 35.9 53.9#

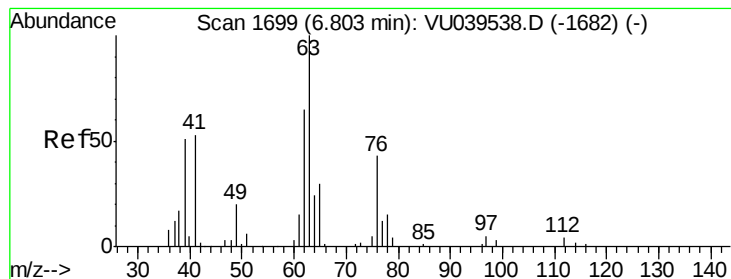


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 0.497 ug/L

RT: 6.70 min Scan# 1668

Delta R.T. -0.10 min

Lab File: VU039560.D

Acq: 17 Jul 2020 19:07

Instrument :

MSVOA_U

ClientSampleId :

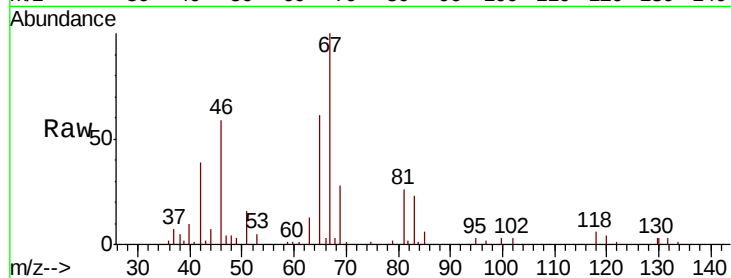
BFT91

Tot Ion: 63 Resp: 3982

Ion Ratio Lower Upper

63 100

112 0.0 2.5 3.7#



Abundance Ion 63.10 (62.80 to 63.80): VU039538.D (-1682) (-)

Ion 112.10 (111.80 to 112.80): VU039538.D (-1682) (-)

6.70

2000

1500

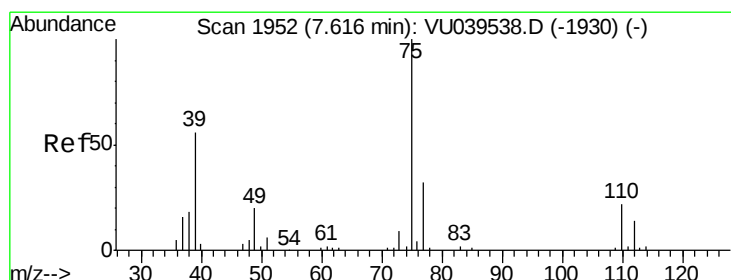
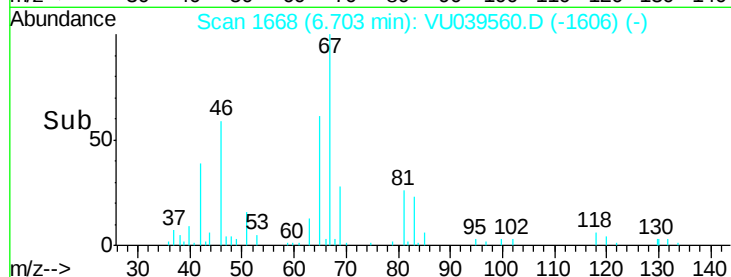
1000

500

0

6.65 6.70 6.75

Time-->



#39

cis-1,3-Dichloropropene

Concen: 0.105 ug/L

RT: 7.57 min Scan# 1939

Delta R.T. -0.04 min

Lab File: VU039560.D

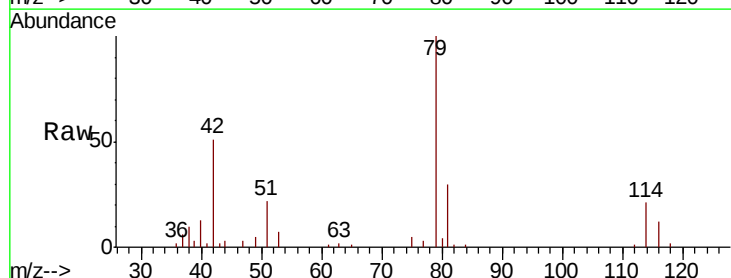
Acq: 17 Jul 2020 19:07

Tgt Ion: 75 Resp: 1274

Ion Ratio Lower Upper

75 100

77 59.7 22.3 41.3#



Abundance Ion 75.05 (74.75 to 75.75): VU039538.D (-1930) (-)

Ion 77.05 (76.75 to 77.75): VU039538.D (-1930) (-)

7.57

800

600

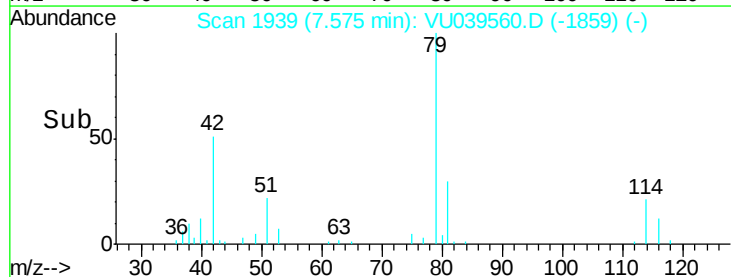
400

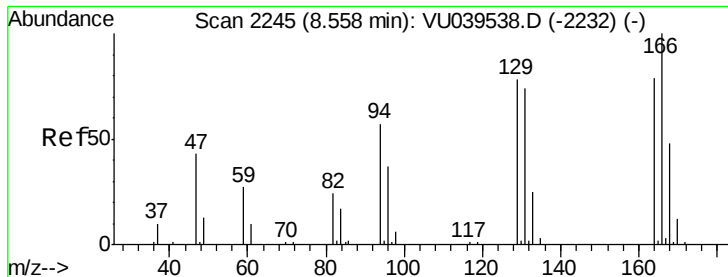
200

0

7.55 7.60

Time-->





#47

Tetrachloroethene

Concen: 221.676 ug/L

RT: 8.56 min Scan# 2246

Delta R.T. 0.00 min

Lab File: VU039560.D

Acq: 17 Jul 2020 19:07

Instrument :

MSVOA_U

ClientSampled :

BFT91

Tot Ion:164 Resp: 1170652

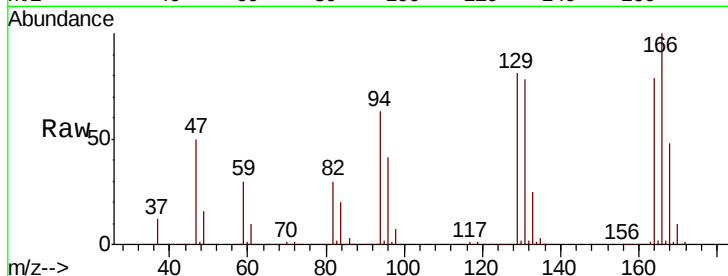
Ion Ratio Lower Upper

164 100

129 102.2 68.6 127.4

131 98.6 66.4 123.4

166 127.0 85.9 159.5

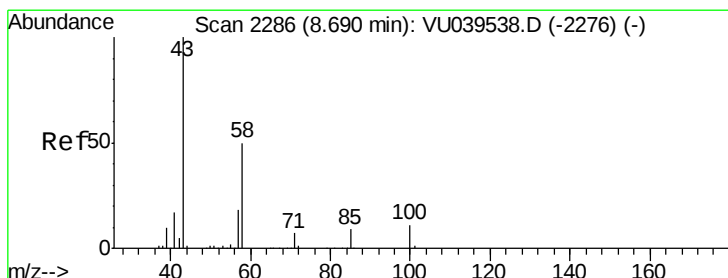
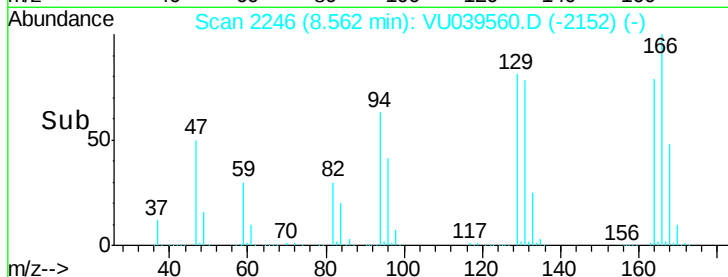
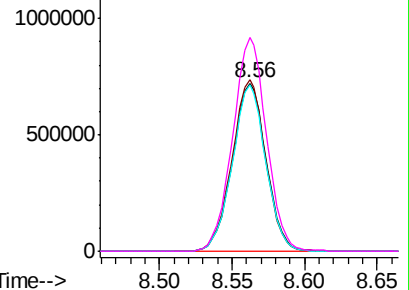


Abundance Ion 163.90 (163.60 to 164.60): V

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: 2.012 ug/L

RT: 8.64 min Scan# 2271

Delta R.T. -0.05 min

Lab File: VU039560.D

Acq: 17 Jul 2020 19:07

Tgt Ion: 43 Resp: 9906

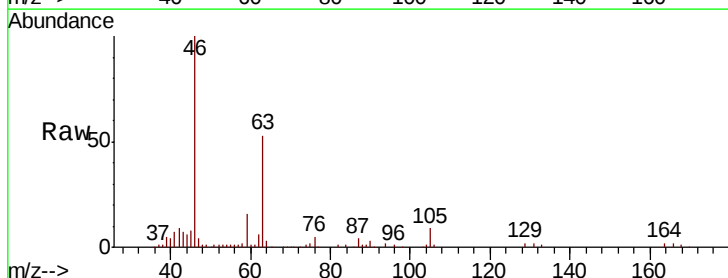
Ion Ratio Lower Upper

43 100

58 30.0 42.0 63.0#

57 24.8 14.0 21.0#

100 0.0 8.2 12.2#

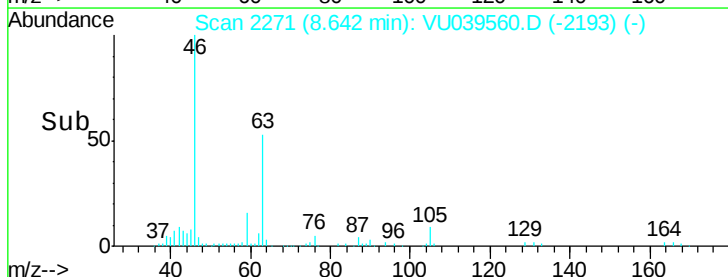
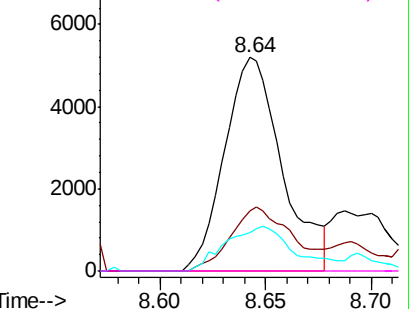


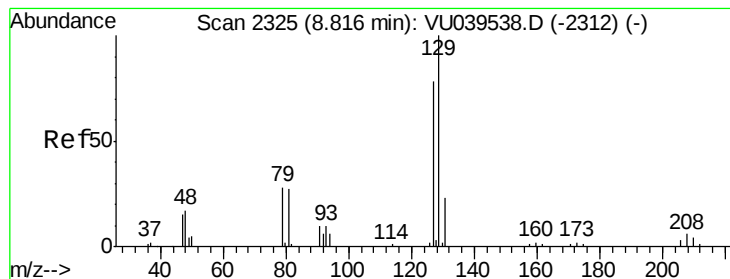
Abundance Ion 43.05 (42.75 to 43.75): VU0

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: 168.920 ug/L

RT: 8.56 min Scan# 2246

Delta R.T. -0.25 min

Lab File: VU039560.D

Acq: 17 Jul 2020 19:07

Instrument :

MSVOA_U

ClientSampleId :

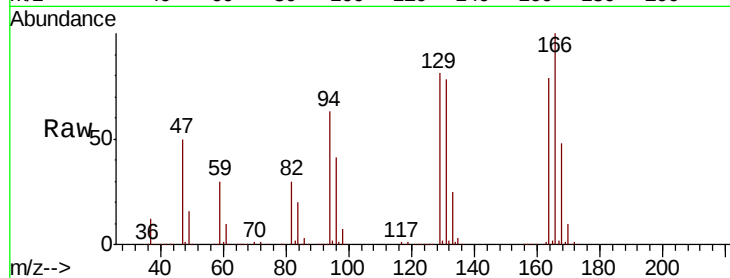
BFT91

Tot Ion:129 Resp: 1176489

Ion Ratio Lower Upper

129 100

127 0.0 55.4 102.8#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

8.56

800000

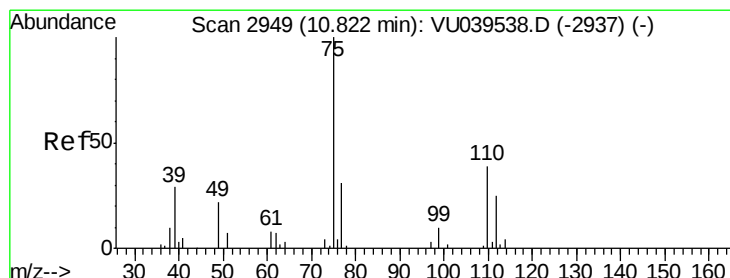
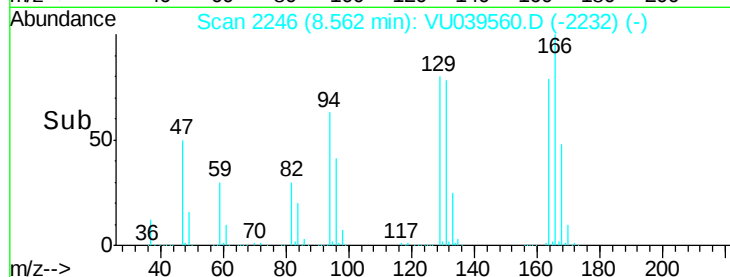
600000

400000

200000

0

Time-->



#59

1,2,3-Trichloropropane

Concen: 1.178 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.98 min

Lab File: VU039560.D

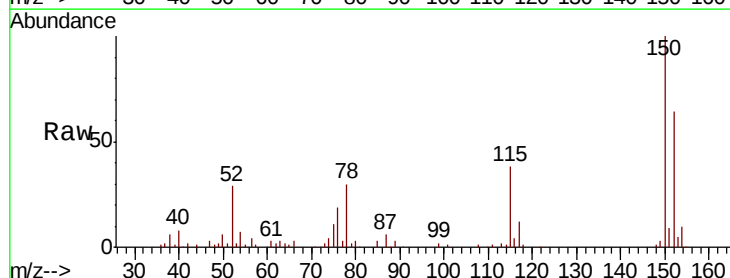
Acq: 17 Jul 2020 19:07

Tgt Ion: 75 Resp: 6949

Ion Ratio Lower Upper

75 100

77 37.4 26.8 40.2



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

11.81

5000

4000

3000

2000

1000

0

Time-->

