

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071420\
 Data File : VU039491.D
 Acq On : 14 Jul 2020 17:48
 Operator : SY/MD
 Sample : L3292-01
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BFT88

Quant Time: Jul 15 06:25:30 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR070720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Jul 15 06:21:40 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.27	114	94168	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	92906	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	43566	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	22960	4.21	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	84.20%
7) Chloroethane-d5	1.93	69	24420	4.37	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	87.40%
11) 1,1-Dichloroethene-d2	2.59	63	84981	7.92	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	158.40%#
20) 2-Butanone-d5	4.66	46	117409	47.02	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	94.04%
24) Chloroform-d	5.09	84	48885	4.21	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.20%
26) 1,2-Dichloroethane-d4	5.72	65	34279	4.70	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.00%
32) Benzene-d6	5.75	84	102592	4.59	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.80%
36) 1,2-Dichloropropane-d6	6.71	67	34877	4.44	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	88.80%
41) Toluene-d8	7.91	98	93975	4.85	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.00%
43) trans-1,3-Dichloropropene-	8.19	79	14682	4.23	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	84.60%
46) 2-Hexanone-d5	8.64	63	83261	40.45	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	80.90%
57) 1,1,2,2-Tetrachloroethane-	10.76	84	34016	4.37	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	87.40%
64) 1,2-Dichlorobenzene-d4	12.19	152	36515	4.70	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	94.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	1195	0.209 ug/L	99
3) Chloromethane	1.53	50	2174	0.314 ug/L	93
5) Vinyl chloride	1.61	62	3199	0.417 ug/L #	76
8) Chloroethane	1.94	64	527	0.095 ug/L #	41
9) Trichlorofluoromethane	2.15	101	11859	0.889 ug/L	97
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	30615	5.596 ug/L	98
12) 1,1-Dichloroethene	2.59	96	78712	14.055 ug/L #	81
13) Acetone	2.66	43	5983	4.439 ug/L	81
16) Methylene chloride	3.06	84	440	0.062 ug/L	79
18) trans-1,2-Dichloroethene	3.37	96	850	0.137 ug/L	78
19) 1,1-Dichloroethane	3.89	63	22841	1.883 ug/L	100
22) cis-1,2-Dichloroethene	4.69	96	71943	10.348 ug/L	95
25) Chloroform	5.11	83	15878	1.296 ug/L	96
27) 1,2-Dichloroethane	5.81	62	4487	0.506 ug/L	98
29) 1,1,1-Trichloroethane	5.33	97	15525	1.419 ug/L	99
31) Carbon tetrachloride	5.54	117	2340	0.251 ug/L	96
33) Benzene	5.79	78	4865	0.175 ug/L	100

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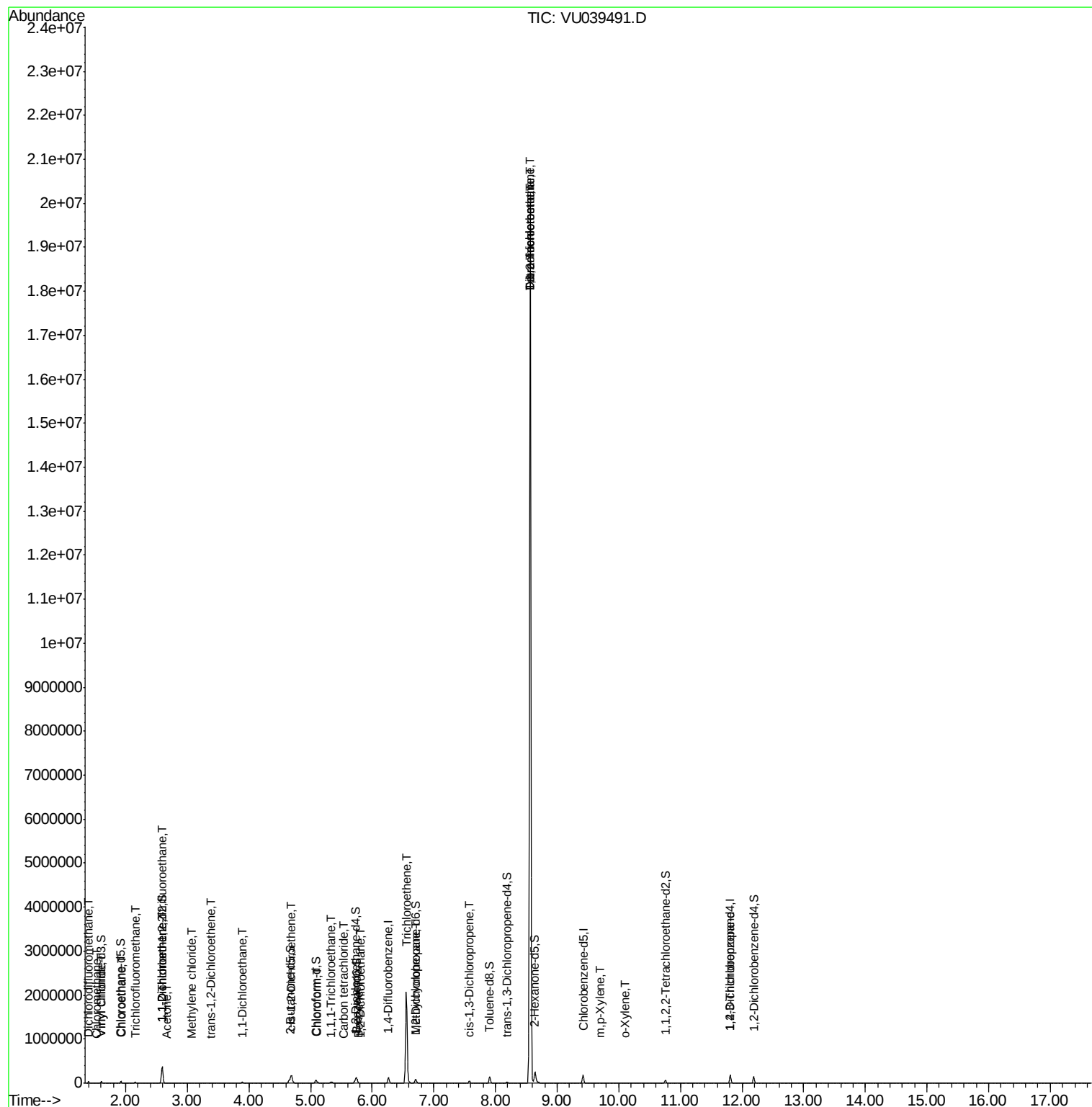
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Trichloroethene	6.56	95	655718	91.313	ug/L	98
35) Methylcyclohexane	6.70	83	7780	0.676	ug/L #	18
39) cis-1,3-Dichloropropene	7.57	75	1195	0.104	ug/L	87
45) 1,1,2-Trichloroethane	8.56	97	36296	6.674	ug/L #	11
47) Tetrachloroethene	8.56	164	3164077	633.448	ug/L	93
49) Dibromochloromethane	8.56	129	3225070	489.559	ug/L #	10
53) m,p-Xylene	9.70	106	2568	0.207	ug/L	71
54) o-Xylene	10.10	106	1368	0.113	ug/L	62
59) 1,2,3-Trichloropropane	11.81	75	7335	1.314	ug/L	97

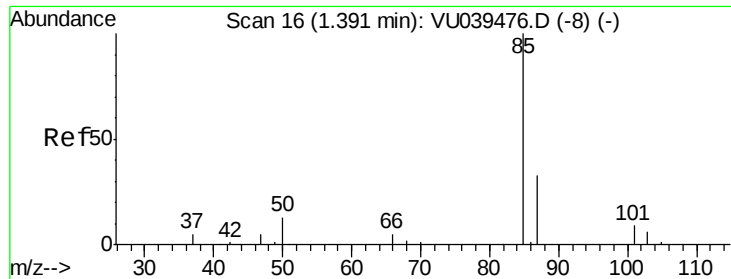
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 0.209 ug/L

RT: 1.39 min Scan# 16

Delta R.T. 0.00 min

Lab File: VU039491.D

Acq: 14 Jul 2020 17:48

Instrument :

MSVOA_U

ClientSampleId :

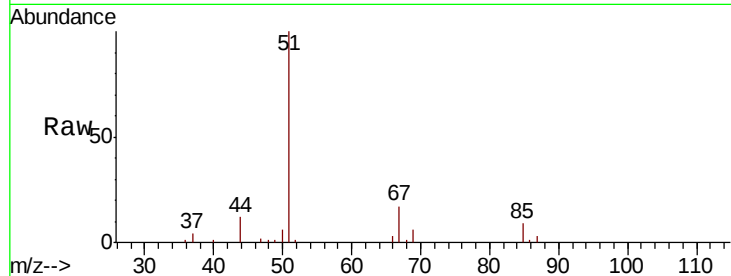
BFT88

Tot Ion: 85 Resp: 1195

Ion Ratio Lower Upper

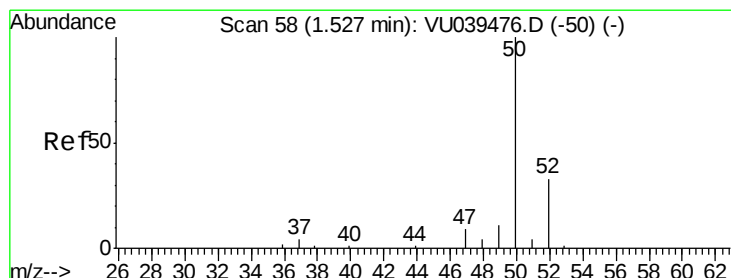
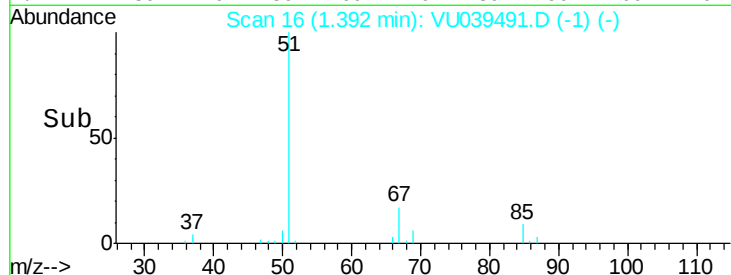
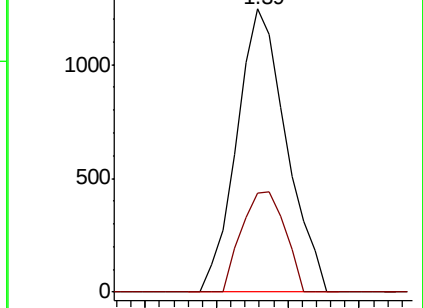
85 100

87 31.0 25.2 37.8



Abundance Ion 85.00 (84.70 to 85.70): VU039476.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VU039476.D (-8) (-)



#3

Chloromethane

Concen: 0.314 ug/L

RT: 1.53 min Scan# 58

Delta R.T. 0.00 min

Lab File: VU039491.D

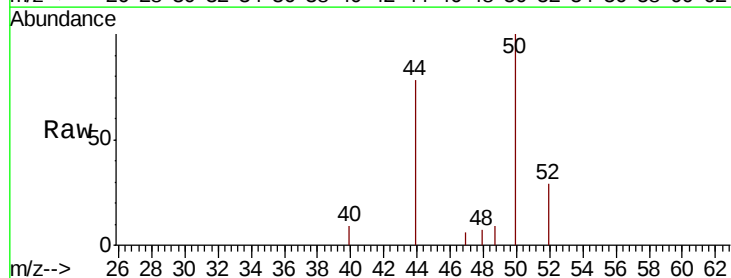
Acq: 14 Jul 2020 17:48

Tgt Ion: 50 Resp: 2174

Ion Ratio Lower Upper

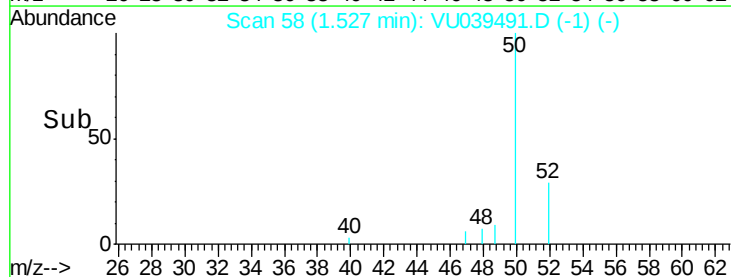
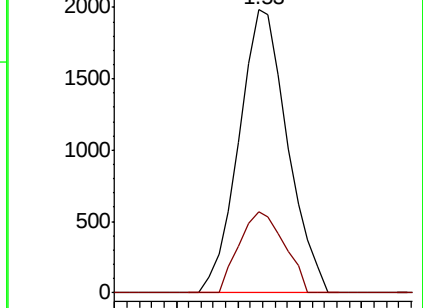
50 100

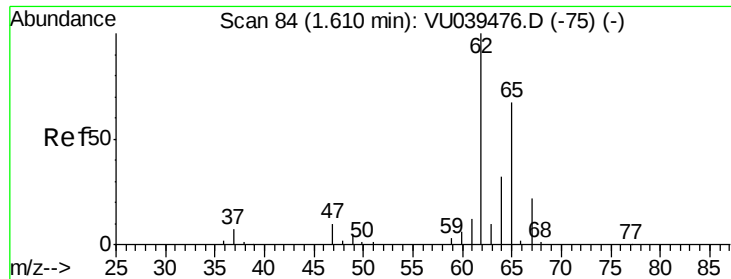
52 28.7 23.0 42.8



Abundance Ion 50.05 (49.75 to 50.75): VU039476.D (-50) (-)

Ion 52.05 (51.75 to 52.75): VU039476.D (-50) (-)





#5

Vinyl chloride

Concen: 0.417 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU039491.D

Acq: 14 Jul 2020 17:48

Instrument :

MSVOA_U

ClientSampleId :

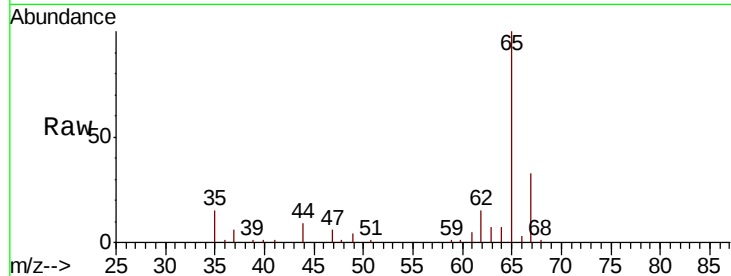
BFT88

Tot Ion: 62 Resp: 3199

Ion Ratio Lower Upper

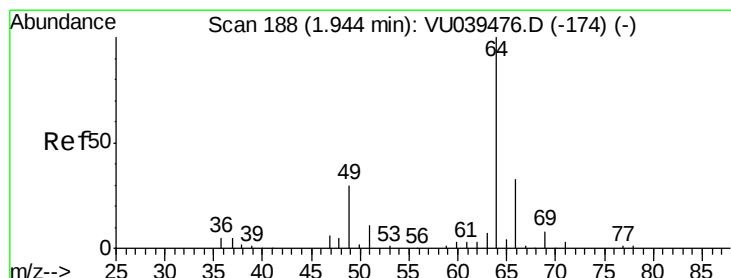
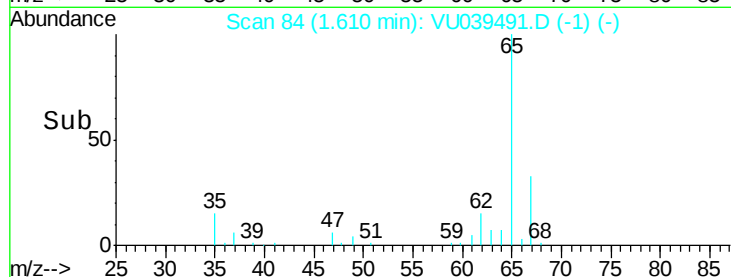
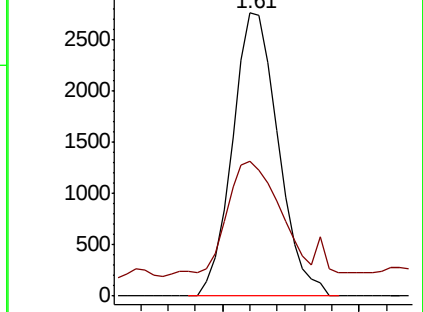
62 100

64 47.5 23.7 44.1#



Abundance Ion 62.00 (61.70 to 62.70): VU039491.D (-1) (-)

Ion 64.10 (63.80 to 64.80): VU039491.D (-1) (-)



#8

Chloroethane

Concen: 0.095 ug/L

RT: 1.94 min Scan# 186

Delta R.T. -0.01 min

Lab File: VU039491.D

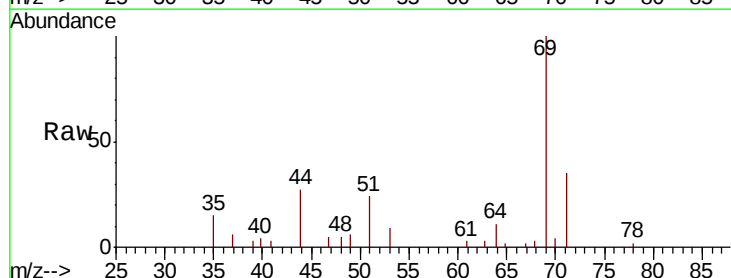
Acq: 14 Jul 2020 17:48

Tgt Ion: 64 Resp: 527

Ion Ratio Lower Upper

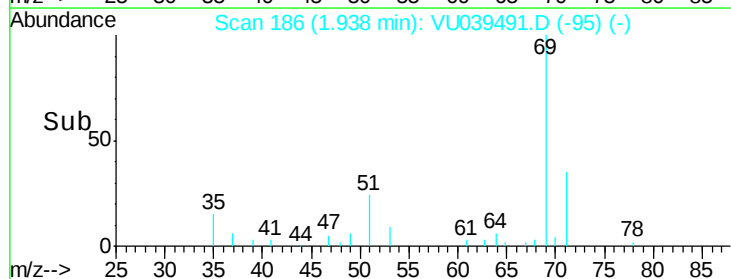
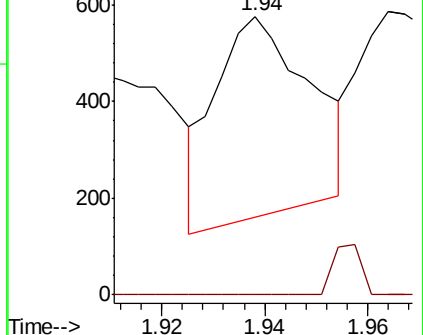
64 100

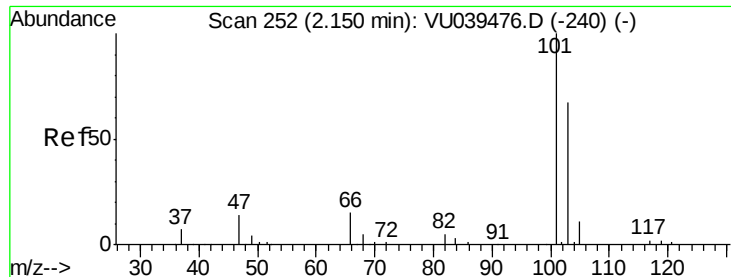
66 0.0 23.5 43.7#



Abundance Ion 64.10 (63.80 to 64.80): VU039491.D (-95) (-)

Ion 66.05 (65.75 to 66.75): VU039491.D (-95) (-)





#9

Trichlorofluoromethane

Concen: 0.889 ug/L

RT: 2.15 min Scan# 252

Delta R.T. 0.00 min

Lab File: VU039491.D

Acq: 14 Jul 2020 17:48

Instrument :

MSVOA_U

ClientSampleId :

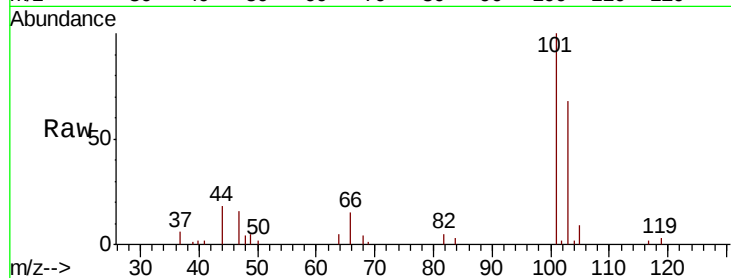
BFT88

Tot Ion:101 Resp: 11859

Ion Ratio Lower Upper

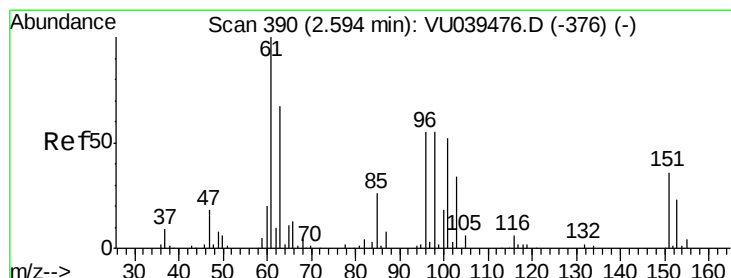
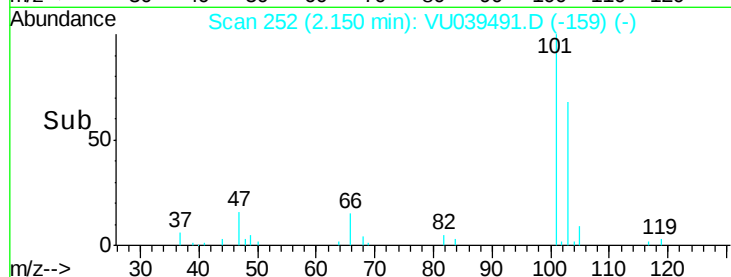
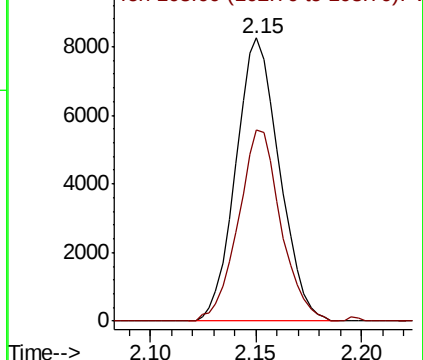
101 100

103 65.8 50.6 76.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#10

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

Concen: 5.596 ug/L

RT: 2.60 min Scan# 391

Delta R.T. 0.00 min

Lab File: VU039491.D

Acq: 14 Jul 2020 17:48

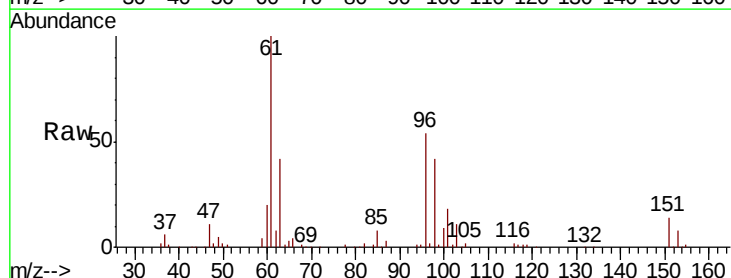
Tgt Ion:101 Resp: 30615

Ion Ratio Lower Upper

101 100

85 46.0 38.9 58.3

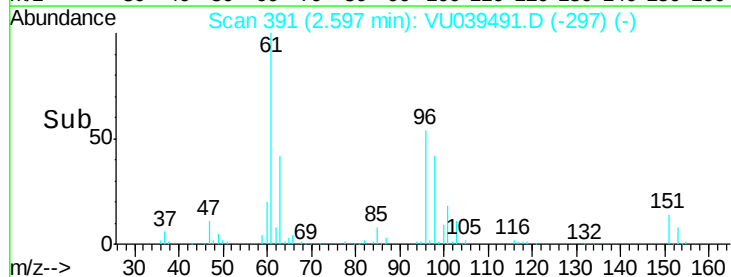
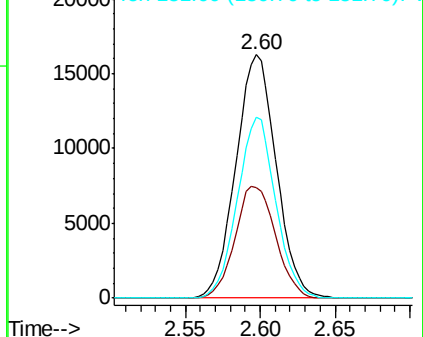
151 70.3 57.0 85.4

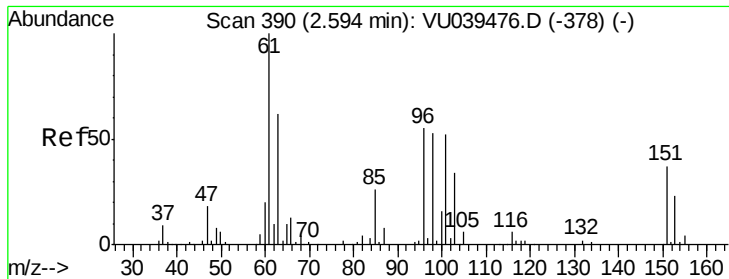


Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V





#12

1,1-Dichloroethene

Concen: 14.055 ug/L

RT: 2.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU039491.D

Acq: 14 Jul 2020 17:48

Instrument :

MSVOA_U

ClientSampleId :

BFT88

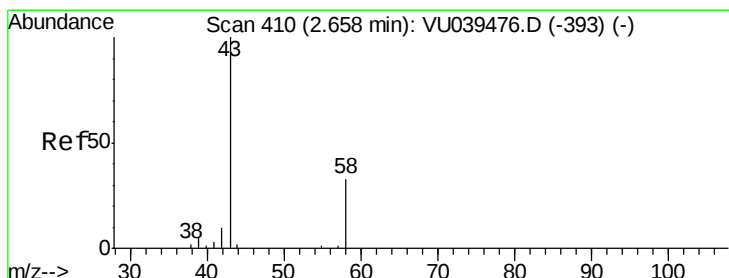
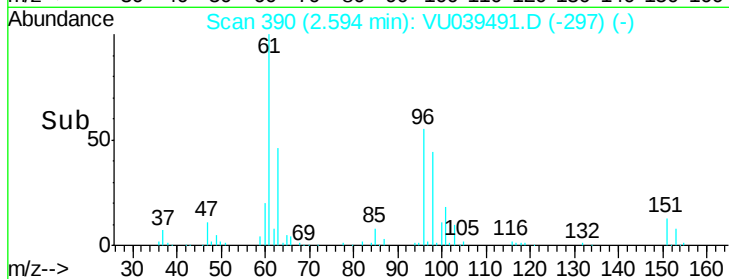
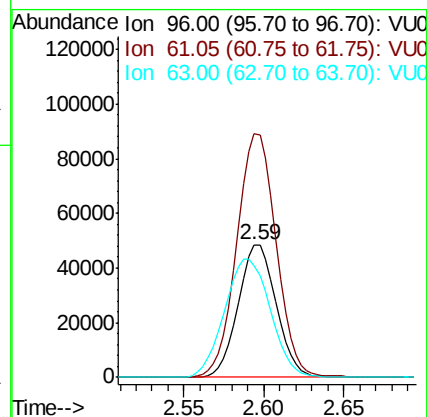
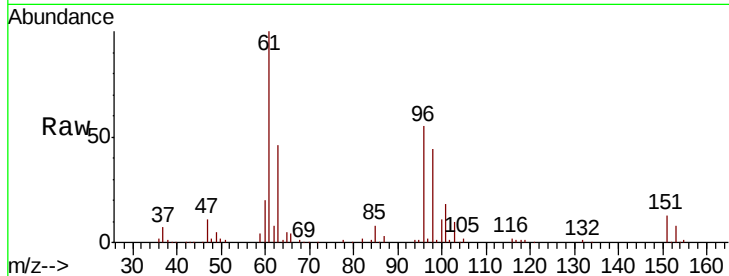
Tot Ion: 96 Resp: 78712

Ion Ratio Lower Upper

96 100

61 183.4 125.4 232.8

63 84.0 92.7 172.3#



#13

Acetone

Concen: 4.439 ug/L

RT: 2.66 min Scan# 411

Delta R.T. 0.00 min

Lab File: VU039491.D

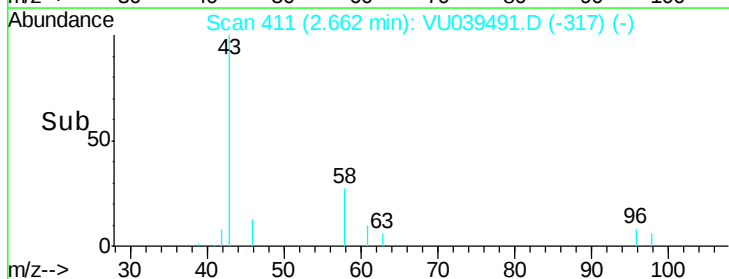
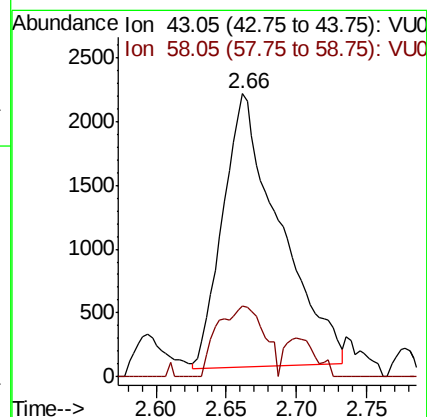
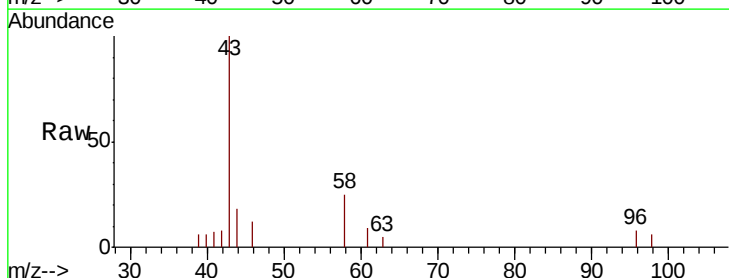
Acq: 14 Jul 2020 17:48

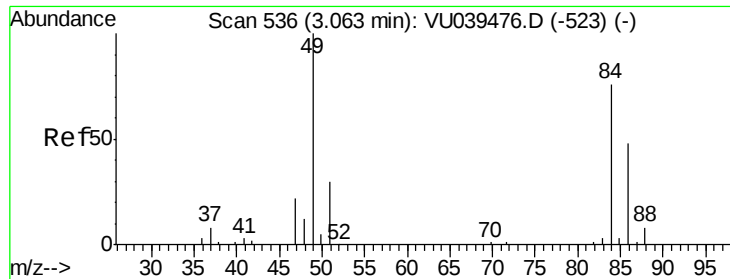
Tgt Ion: 43 Resp: 5983

Ion Ratio Lower Upper

43 100

58 21.1 0.0 62.8

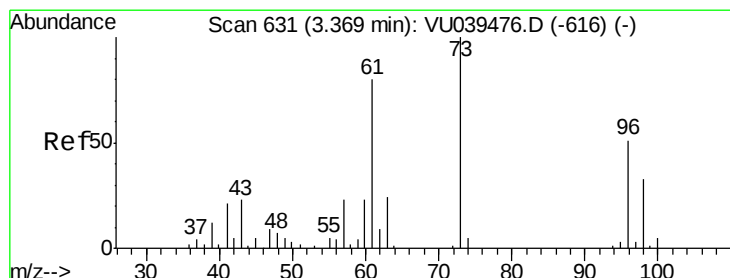
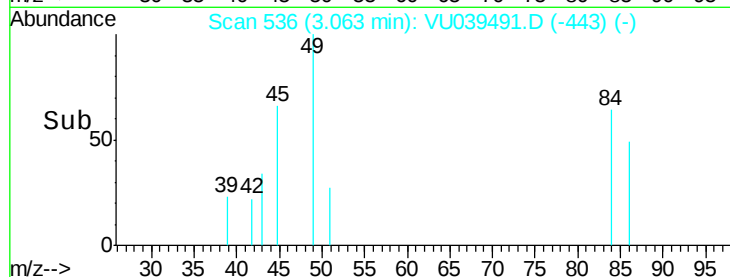
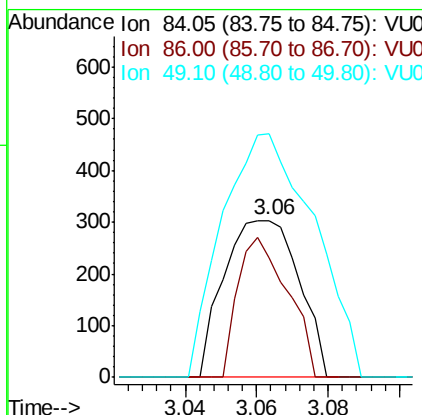
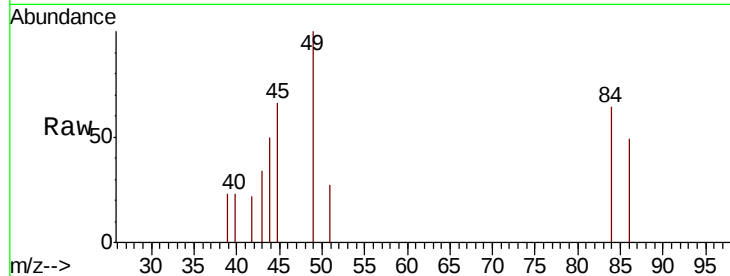




#16
Methylene chloride
Concen: 0.062 ug/L
RT: 3.06 min Scan# 536
Delta R.T. 0.00 min
Lab File: VU039491.D
Acq: 14 Jul 2020 17:48

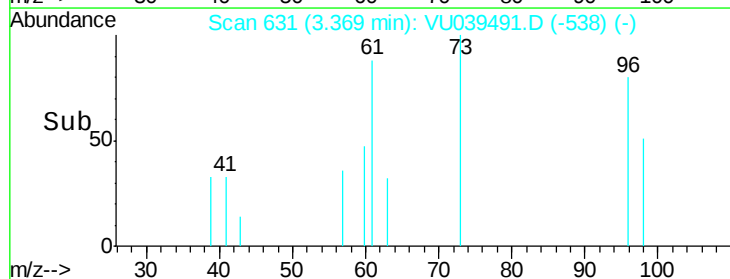
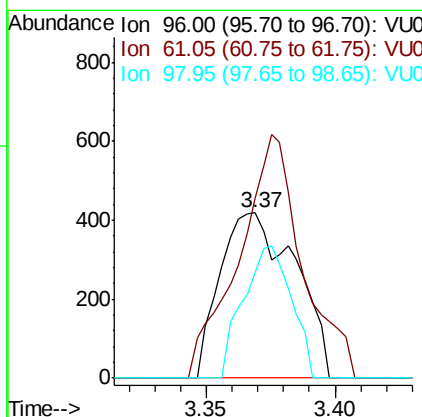
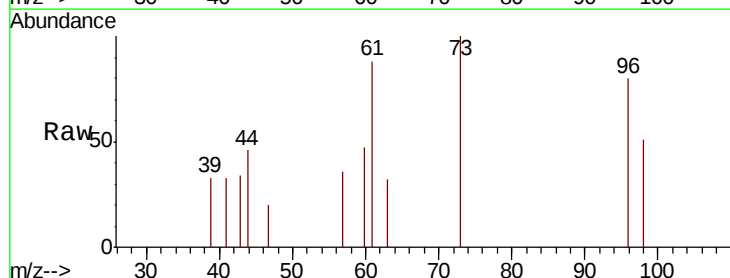
Instrument :
MSVOA_U
ClientSampled :
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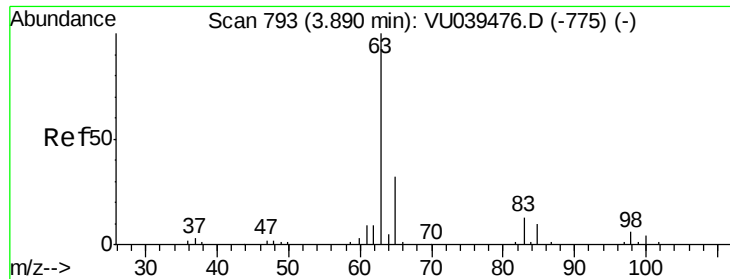
Tot Ion: 84 Resp: 440
Ion Ratio Lower Upper
84 100
86 76.2 43.5 80.9
49 155.4 91.1 169.1



#18
trans-1,2-Dichloroethene
Concen: 0.137 ug/L
RT: 3.37 min Scan# 631
Delta R.T. 0.00 min
Lab File: VU039491.D
Acq: 14 Jul 2020 17:48

Tgt Ion: 96 Resp: 850
Ion Ratio Lower Upper
96 100
61 108.8 102.1 189.5
98 63.7 42.5 78.9





#19

1,1-Dichloroethane

Concen: 1.883 ug/L

RT: 3.89 min Scan# 794

Delta R.T. 0.00 min

Lab File: VU039491.D

Acq: 14 Jul 2020 17:48

Instrument :

MSVOA_U

ClientSampleId :

BFT88

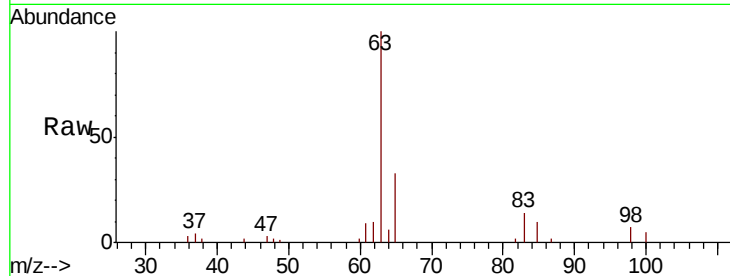
Tot Ion: 63 Resp: 22841

Ion Ratio Lower Upper

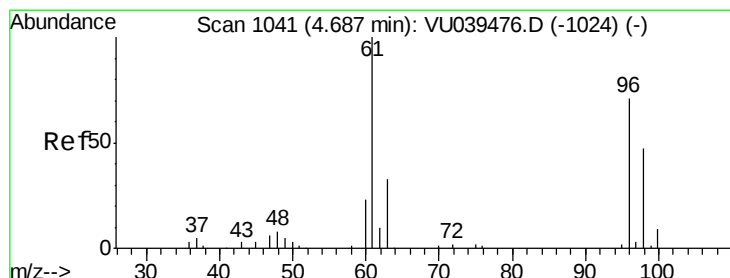
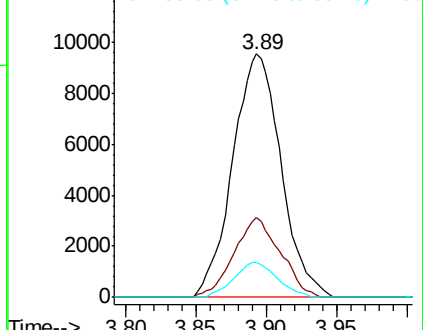
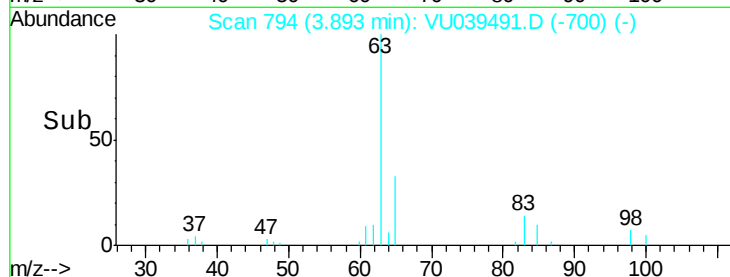
63 100

65 32.7 23.0 42.6

83 14.2 9.6 17.8



Abundance Ion 63.10 (62.80 to 63.80): VU039491.D (-700) (-)



#22

cis-1,2-Dichloroethene

Concen: 10.348 ug/L

RT: 4.69 min Scan# 1042

Delta R.T. 0.00 min

Lab File: VU039491.D

Acq: 14 Jul 2020 17:48

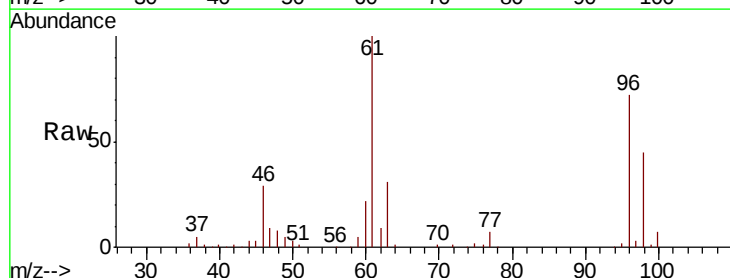
Tgt Ion: 96 Resp: 71943

Ion Ratio Lower Upper

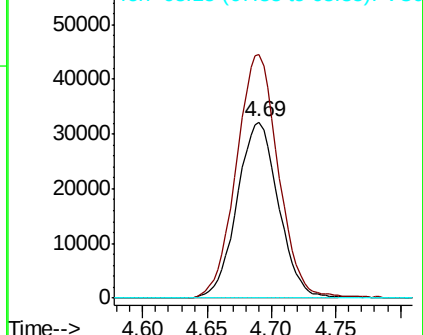
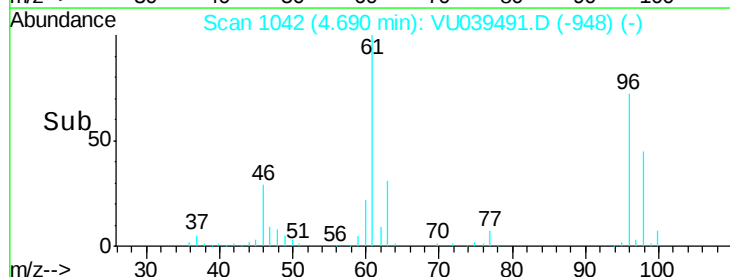
96 100

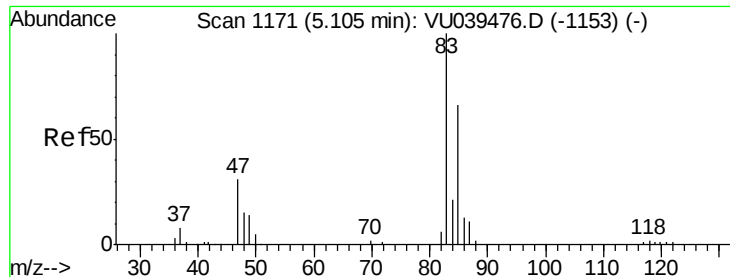
61 138.4 92.8 172.4

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU039491.D (-948) (-)

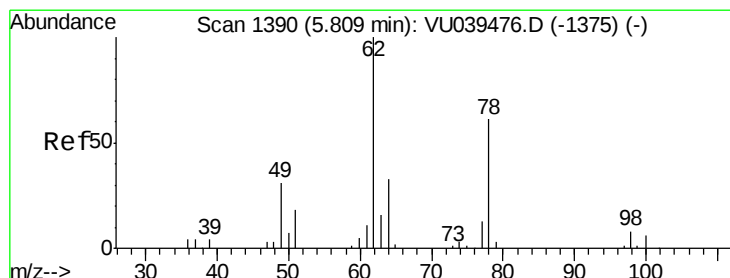
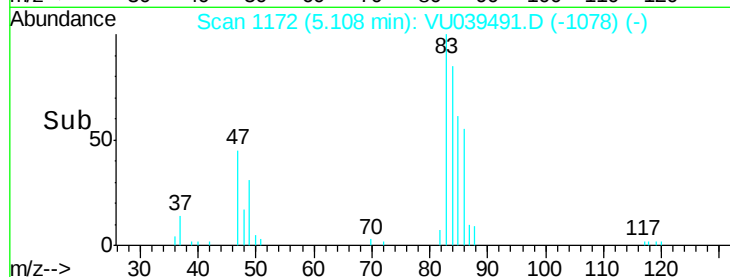
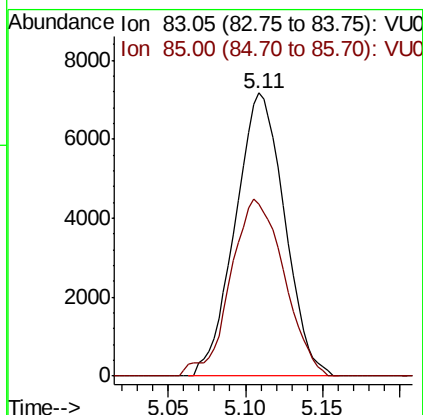
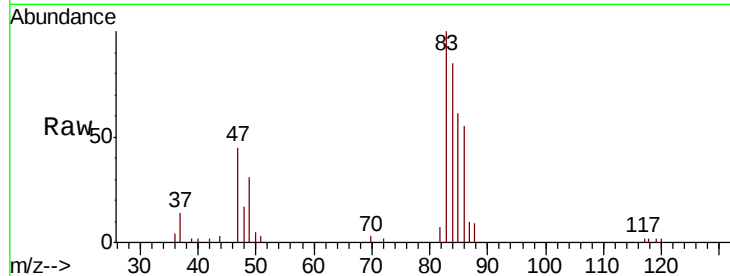




#25
Chloroform
Concen: 1.296 ug/L
RT: 5.11 min Scan# 1172
Delta R.T. 0.00 min
Lab File: VU039491.D
Acq: 14 Jul 2020 17:48

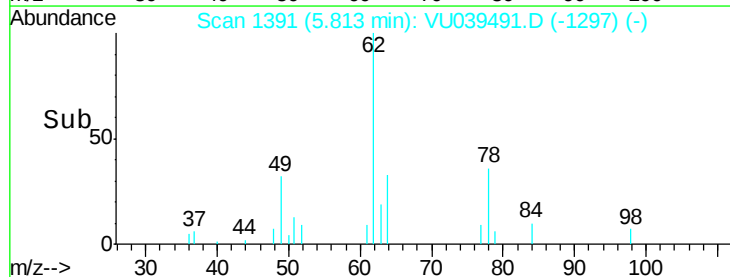
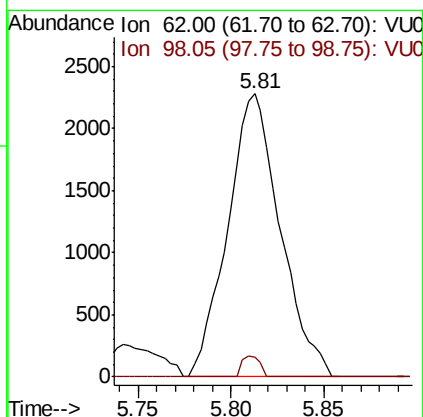
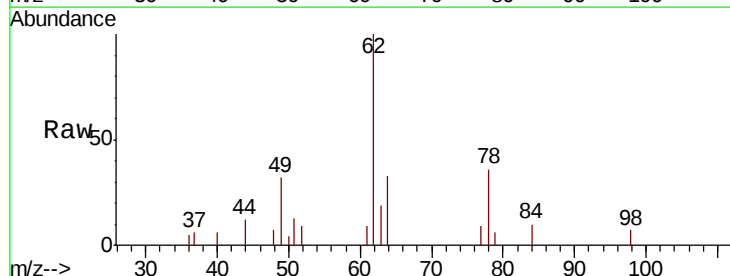
Instrument :
MSVOA_U
ClientSampleId :
BFT88

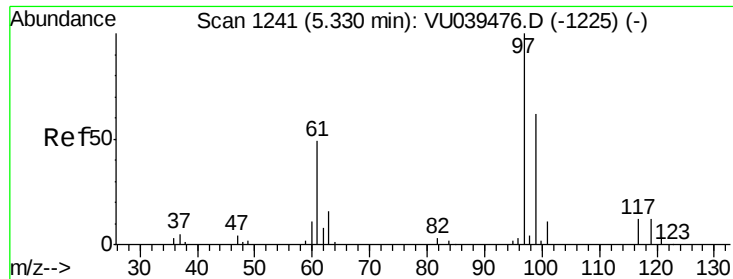
Tot Ion: 83 Resp: 15878
Ion Ratio Lower Upper
83 100
85 60.8 44.9 83.5



#27
1,2-Dichloroethane
Concen: 0.506 ug/L
RT: 5.81 min Scan# 1391
Delta R.T. 0.00 min
Lab File: VU039491.D
Acq: 14 Jul 2020 17:48

Tgt Ion: 62 Resp: 4487
Ion Ratio Lower Upper
62 100
98 7.1 6.3 9.5

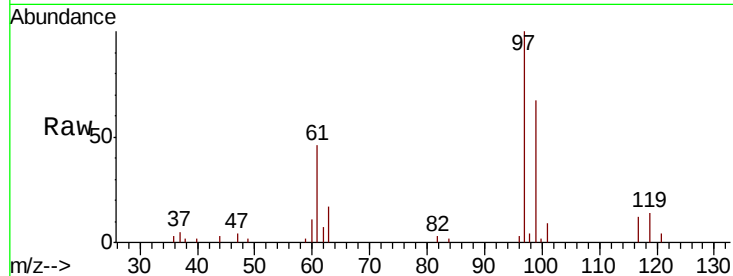




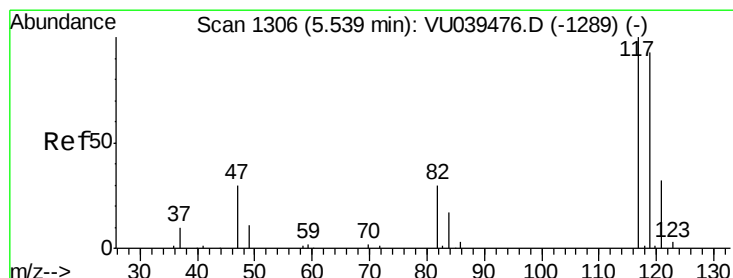
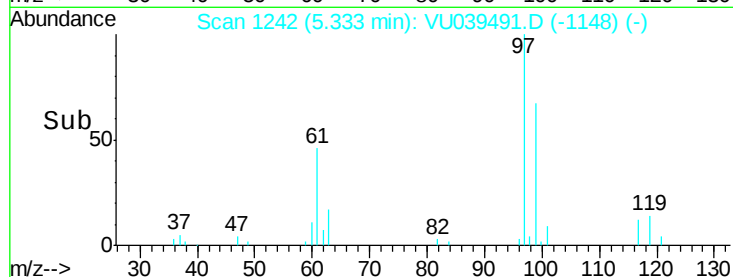
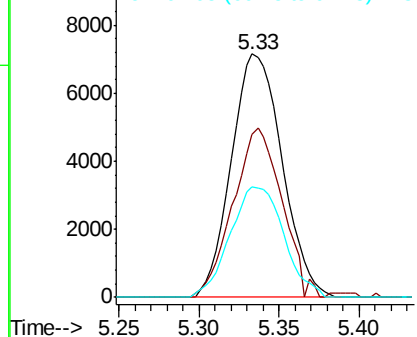
#29
 1,1,1-Trichloroethane
 Concen: 1.419 ug/L
 RT: 5.33 min Scan# 1242
 Delta R.T. 0.00 min
 Lab File: VU039491.D
 Acq: 14 Jul 2020 17:48

Instrument :
 MSVOA_U
 ClientSampleId :
 BFT88

Tot Ion: 97 Resp: 15525
 Ion Ratio Lower Upper
 97 100
 99 66.9 52.6 79.0
 61 48.0 37.9 56.9

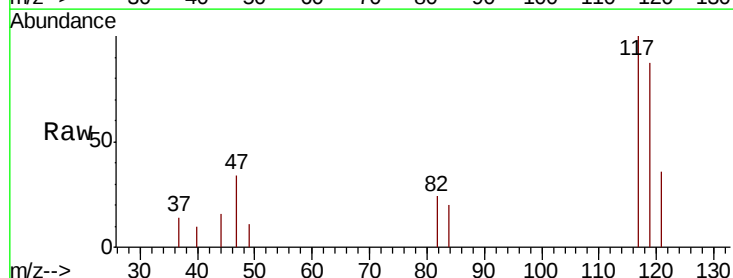


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

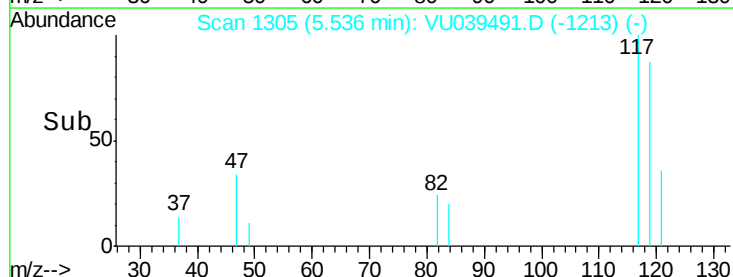
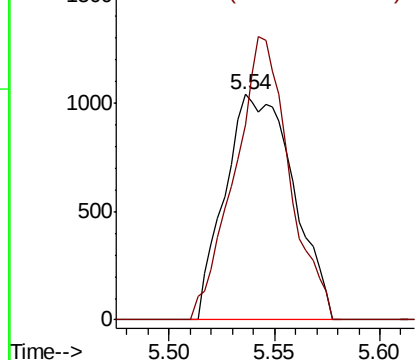


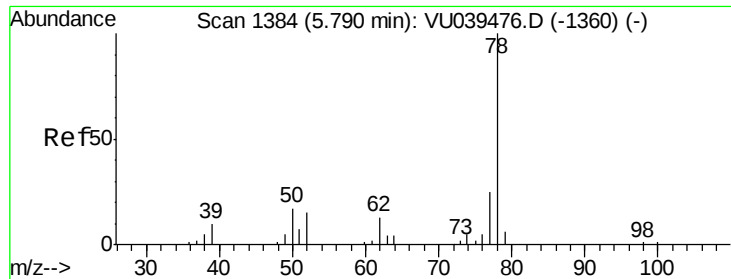
#31
 Carbon tetrachloride
 Concen: 0.251 ug/L
 RT: 5.54 min Scan# 1305
 Delta R.T. -0.00 min
 Lab File: VU039491.D
 Acq: 14 Jul 2020 17:48

Tgt Ion: 117 Resp: 2340
 Ion Ratio Lower Upper
 117 100
 119 100.6 77.4 116.0



Abundance Ion 116.90 (116.60 to 117.60): V
 Ion 118.90 (118.60 to 119.60): V

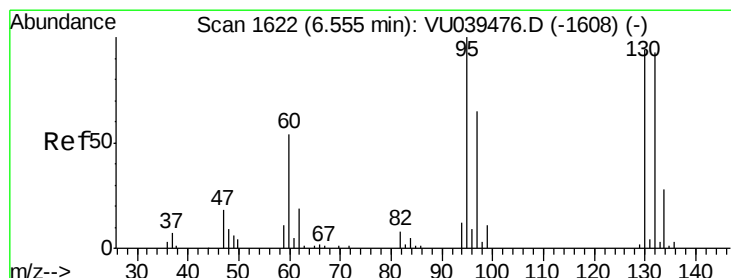
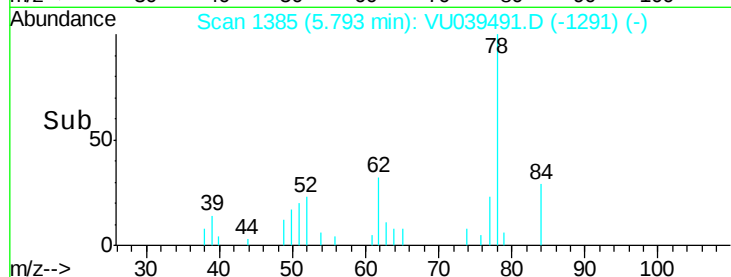
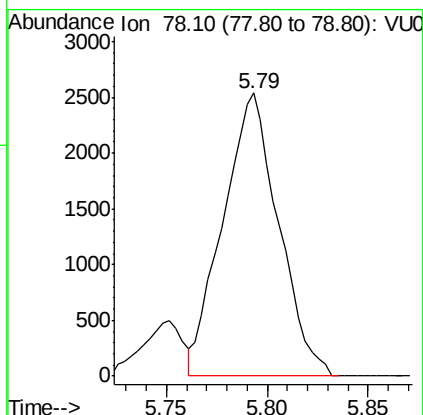
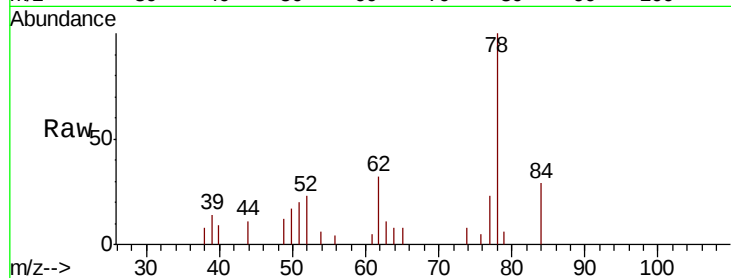




#33
Benzene
Concen: 0.175 ug/L
RT: 5.79 min Scan# 1385
Delta R.T. 0.00 min
Lab File: VU039491.D
Acq: 14 Jul 2020 17:48

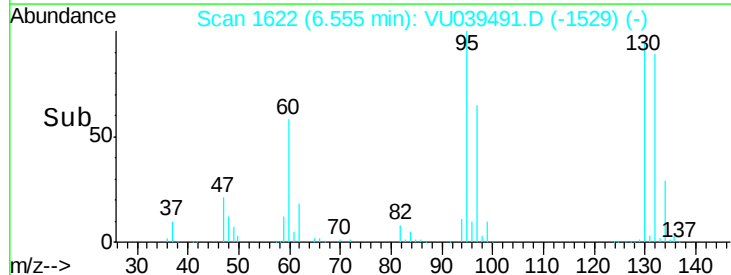
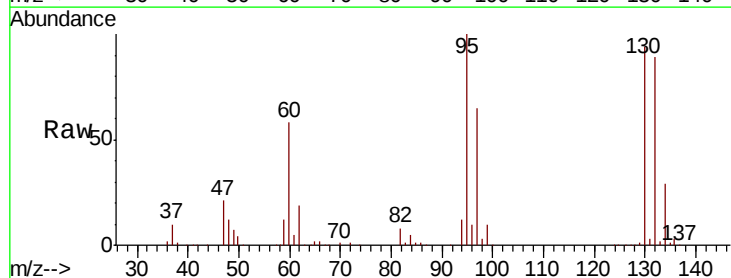
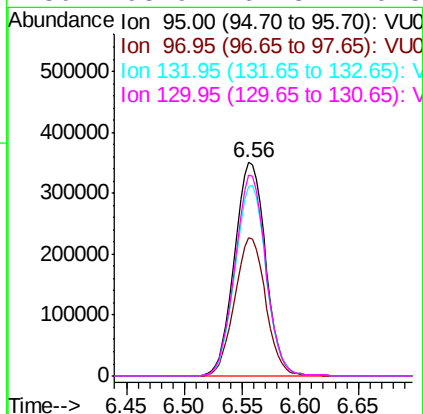
Instrument :
MSVOA_U
ClientSampleId :
BFT88

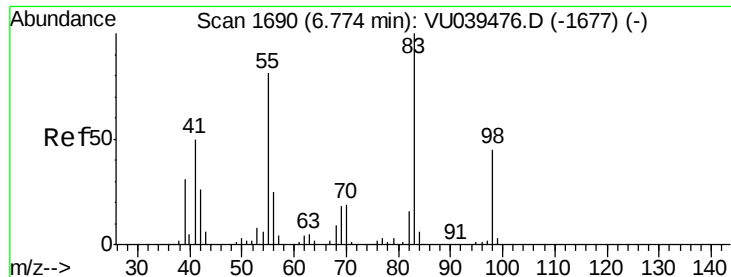
Tgt Ion: 78 Resp: 4865



#34
Trichloroethene
Concen: 91.313 ug/L
RT: 6.56 min Scan# 1622
Delta R.T. 0.00 min
Lab File: VU039491.D
Acq: 14 Jul 2020 17:48

Tgt Ion: 95 Resp: 655718
Ion Ratio Lower Upper
95 100
97 64.5 46.3 85.9
132 89.0 64.0 118.8
130 93.9 64.3 119.5

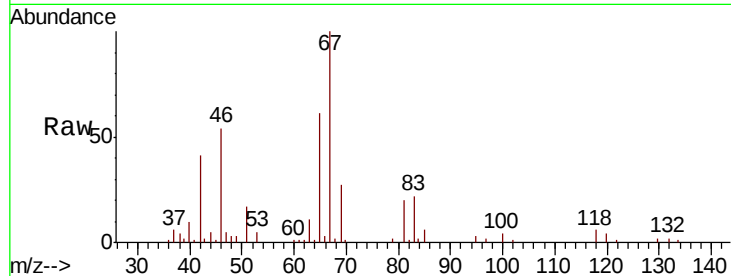




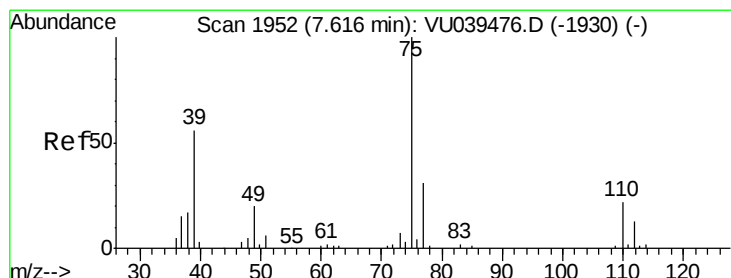
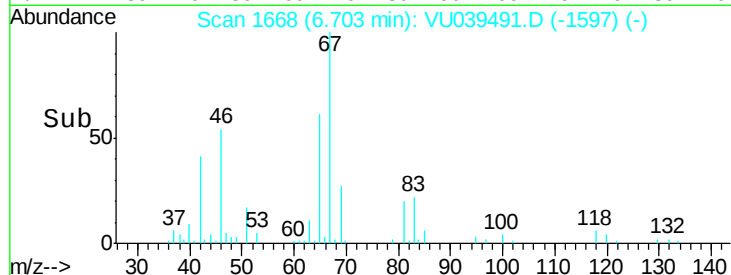
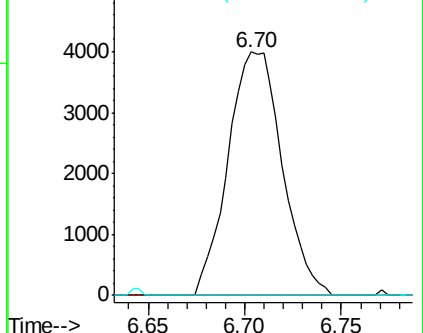
#35
Methylcyclohexane
Concen: 0.676 ug/L
RT: 6.70 min Scan# 1668
Delta R.T. -0.07 min
Lab File: VU039491.D
Acq: 14 Jul 2020 17:48

Instrument :
MSVOA_U
ClientSampled :
BFT88

Tot Ion: 83 Resp: 7780
Ion Ratio Lower Upper
83 100
55 0.0 62.1 93.1#
98 0.0 35.9 53.9#

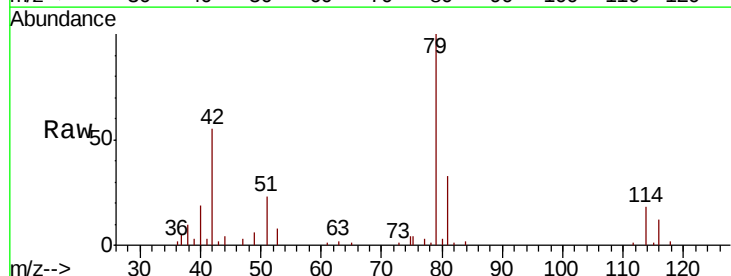


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

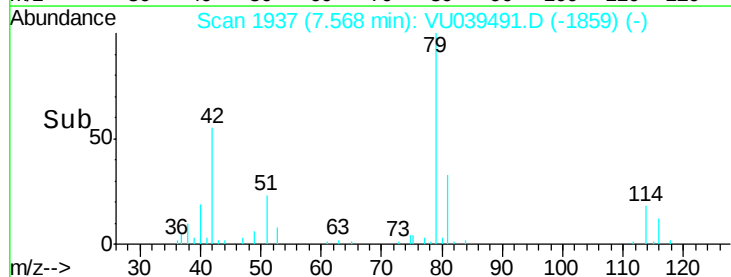
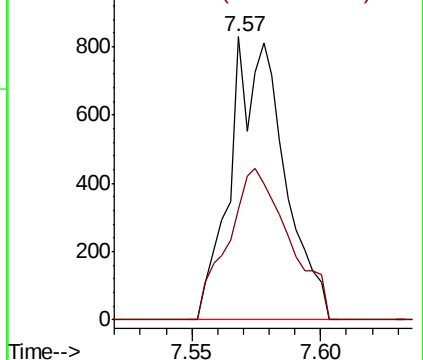


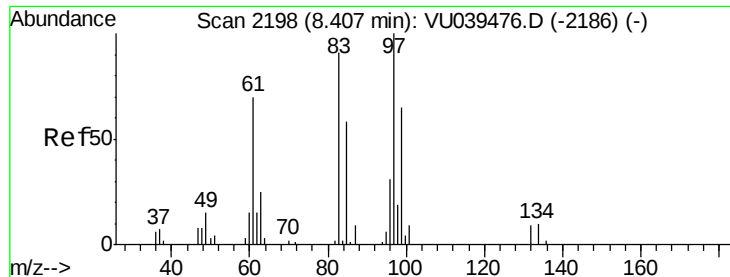
#39
cis-1,3-Dichloropropene
Concen: 0.104 ug/L
RT: 7.57 min Scan# 1937
Delta R.T. -0.05 min
Lab File: VU039491.D
Acq: 14 Jul 2020 17:48

Tgt Ion: 75 Resp: 1195
Ion Ratio Lower Upper
75 100
77 39.2 22.3 41.3



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: 6.674 ug/L

RT: 8.56 min Scan# 2247

Delta R.T. 0.16 min

Lab File: VU039491.D

Acq: 14 Jul 2020 17:48

Instrument :

MSVOA_U

ClientSampleId :

BFT88

Tot Ion: 97 Resp: 36296

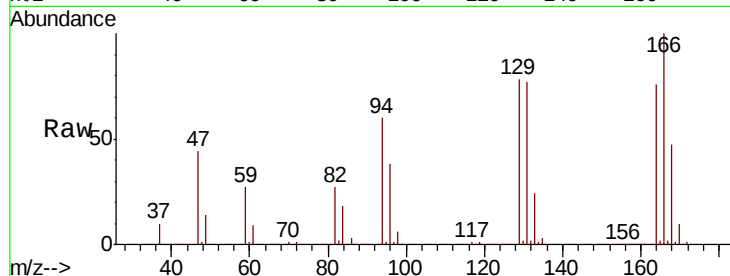
Ion Ratio Lower Upper

97 100

99 14.8 40.7 75.7#

83 228.2 60.6 112.6#

85 41.6 38.3 71.1



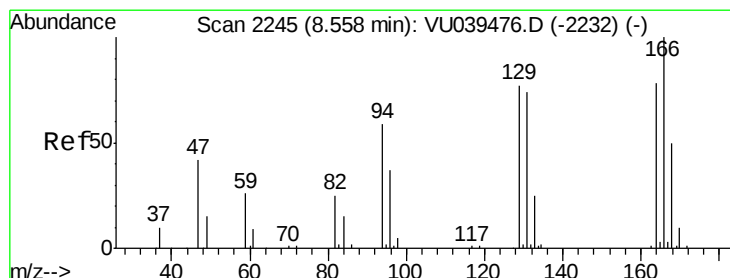
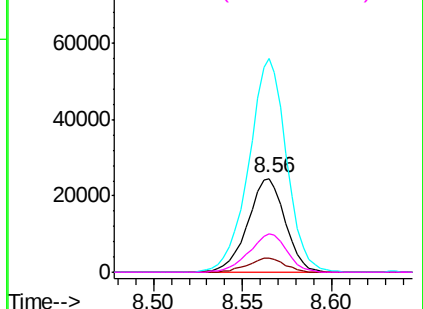
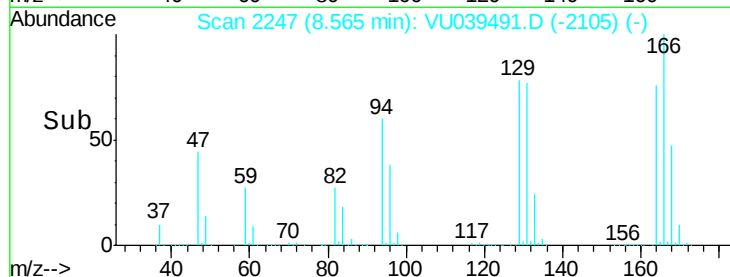
Abundance

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: 633.448 ug/L

RT: 8.56 min Scan# 2247

Delta R.T. 0.01 min

Lab File: VU039491.D

Acq: 14 Jul 2020 17:48

Tgt Ion:164 Resp: 3164077

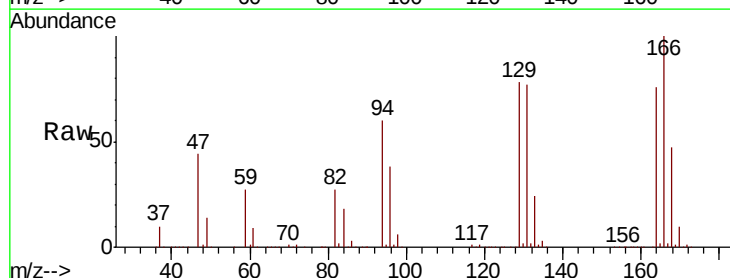
Ion Ratio Lower Upper

164 100

129 103.2 68.6 127.4

131 101.1 66.4 123.4

166 131.7 85.9 159.5



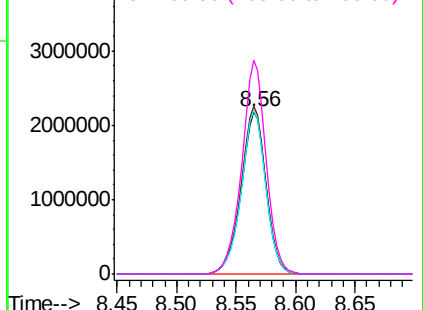
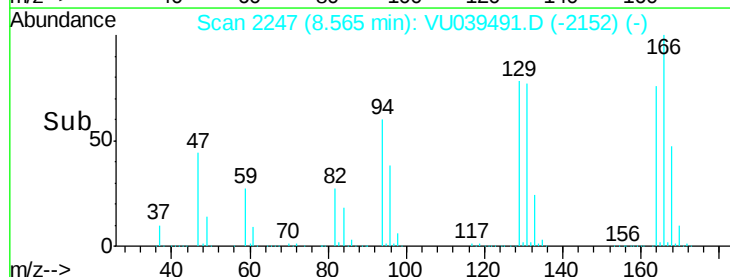
Abundance

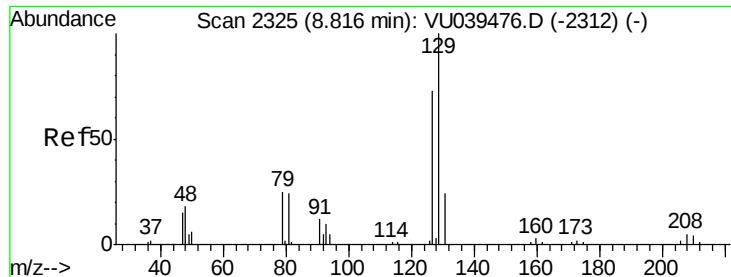
Ion 163.90 (163.60 to 164.60): V

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





#49

Dibromochloromethane

Concen: 489.559 ug/L

RT: 8.56 min Scan# 2247

Delta R.T. -0.25 min

Lab File: VU039491.D

Acq: 14 Jul 2020 17:48

Instrument :

MSVOA_U

ClientSampleId :

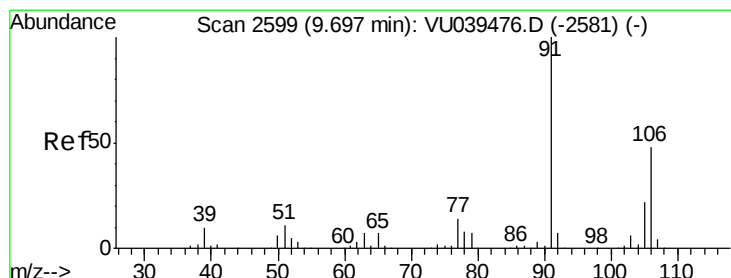
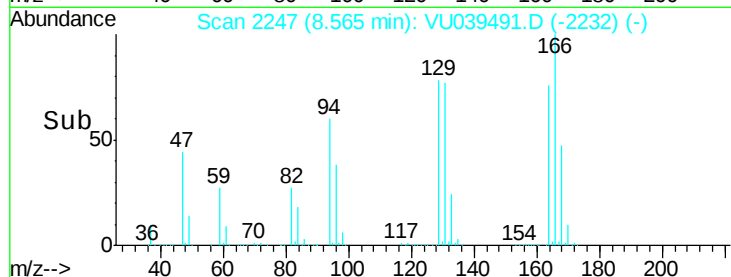
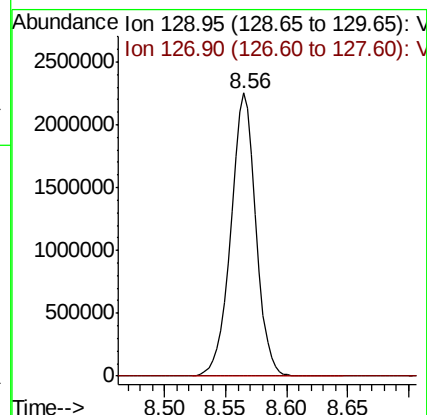
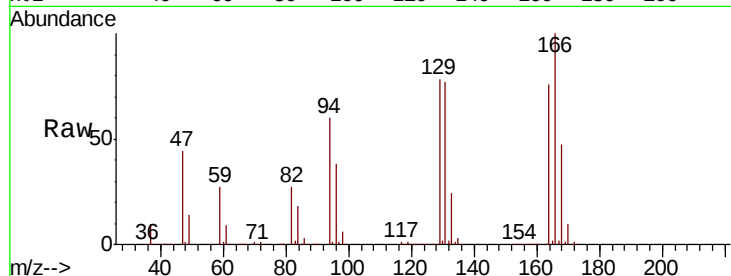
BFT88

Tot Ion:129 Resp: 3225070

Ion Ratio Lower Upper

129 100

127 0.0 55.4 102.8#



#53

m,p-Xylene

Concen: 0.207 ug/L

RT: 9.70 min Scan# 2599

Delta R.T. 0.00 min

Lab File: VU039491.D

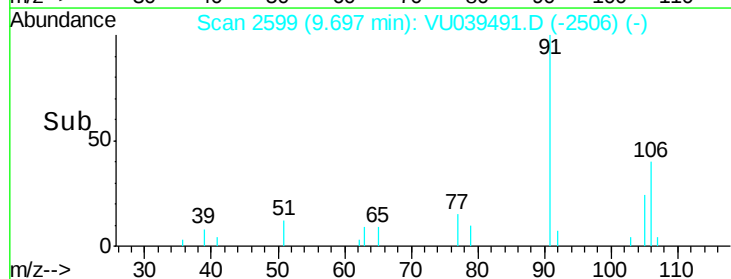
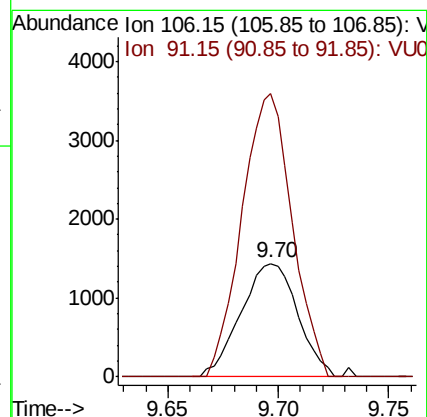
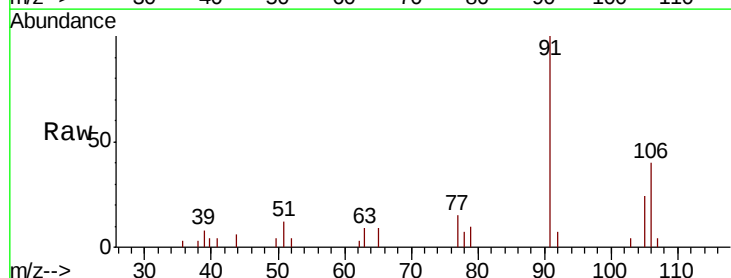
Acq: 14 Jul 2020 17:48

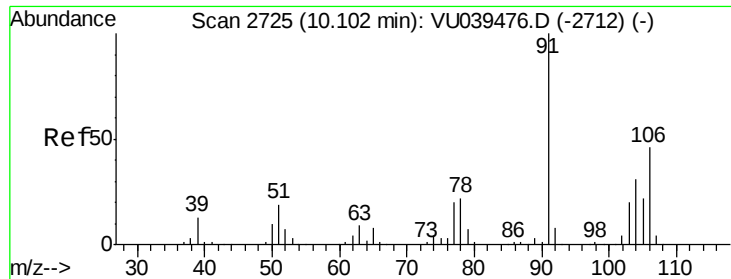
Tgt Ion:106 Resp: 2568

Ion Ratio Lower Upper

106 100

91 250.1 144.0 267.4

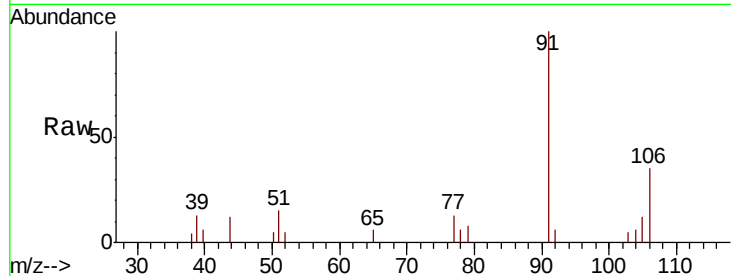




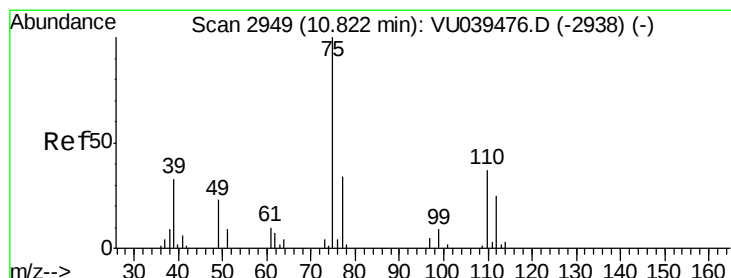
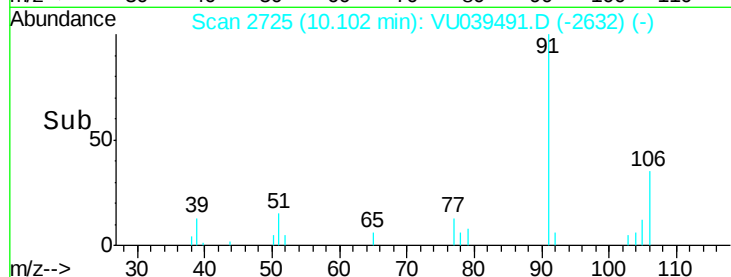
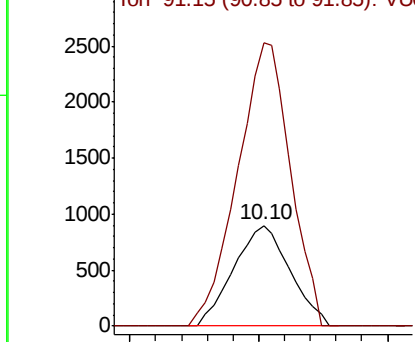
#54
o-Xylene
Concen: 0.113 ug/L
RT: 10.10 min Scan# 2725
Delta R.T. 0.00 min
Lab File: VU039491.D
Acq: 14 Jul 2020 17:48

Instrument :
MSVOA_U
ClientSampled :
BFT88

Tot Ion:106 Resp: 1368
Ion Ratio Lower Upper
106 100
91 282.1 154.6 287.2

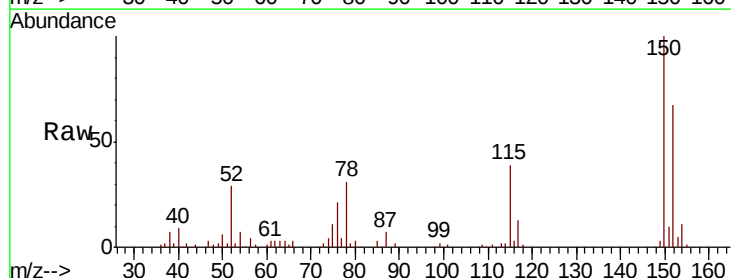


Abundance Ion 106.15 (105.85 to 106.85): VU039491.D (-2632) (-)
Ion 91.15 (90.85 to 91.85): VU039491.D (-2632) (-)



#59
1,2,3-Trichloropropane
Concen: 1.314 ug/L
RT: 11.81 min Scan# 3256
Delta R.T. 0.99 min
Lab File: VU039491.D
Acq: 14 Jul 2020 17:48

Tgt Ion: 75 Resp: 7335
Ion Ratio Lower Upper
75 100
77 35.3 26.8 40.2



Abundance Ion 75.00 (74.70 to 75.70): VU039491.D (-2327) (-)
Ion 77.00 (76.70 to 77.70): VU039491.D (-2327) (-)

