

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U071720\
 Data File : VU039553.D
 Acq On : 17 Jul 2020 15:39
 Operator : SY/MD
 Sample : L3292-18
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BFT93

Quant Time: Jul 17 23:43:35 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	86641	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	85044	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	38683	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	20168	4.02	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	80.40%
7) Chloroethane-d5	1.92	69	25433	4.95	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	99.00%
11) 1,1-Dichloroethene-d2	2.58	63	35061	3.55	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	71.00%
20) 2-Butanone-d5	4.65	46	97586	42.47	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	84.94%
24) Chloroform-d	5.08	84	50858	4.76	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.20%
26) 1,2-Dichloroethane-d4	5.72	65	32659	4.87	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.40%
32) Benzene-d6	5.74	84	96180	4.70	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.00%
36) 1,2-Dichloropropane-d6	6.70	67	33686	4.68	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	93.60%
41) Toluene-d8	7.91	98	84289	4.75	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.00%
43) trans-1,3-Dichloropropene-	8.19	79	13087	4.12	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	82.40%
46) 2-Hexanone-d5	8.64	63	70929	37.64	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	75.28%
57) 1,1,2,2-Tetrachloroethane-	10.76	84	29319	4.11	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	82.20%
64) 1,2-Dichlorobenzene-d4	12.19	152	34664	5.02	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	100.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	2525	0.481 ug/L	97
3) Chloromethane	1.53	50	1325	0.208 ug/L	85
8) Chloroethane	2.13	64	378	0.074 ug/L	87
9) Trichlorofluoromethane	2.15	101	4730	0.386 ug/L	90
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	3411	0.678 ug/L	97
12) 1,1-Dichloroethene	2.60	96	4654	0.903 ug/L #	15
13) Acetone	2.65	43	7208	5.812 ug/L	92
14) Carbon disulfide	2.81	76	2630	0.145 ug/L #	89
16) Methylene chloride	3.06	84	582	0.090 ug/L	75
17) Methyl tert-butyl Ether	3.38	73	3849	0.237 ug/L	93
19) 1,1-Dichloroethane	3.89	63	2468	0.221 ug/L #	83
22) cis-1,2-Dichloroethene	4.69	96	31530	4.929 ug/L	92
25) Chloroform	5.11	83	10561	0.937 ug/L	99
29) 1,1,1-Trichloroethane	5.33	97	711	0.071 ug/L #	52
31) Carbon tetrachloride	5.54	117	2692	0.315 ug/L	98
34) Trichloroethene	6.56	95	212743	32.365 ug/L	98
35) Methylcyclohexane	6.71	83	7166	0.680 ug/L #	18

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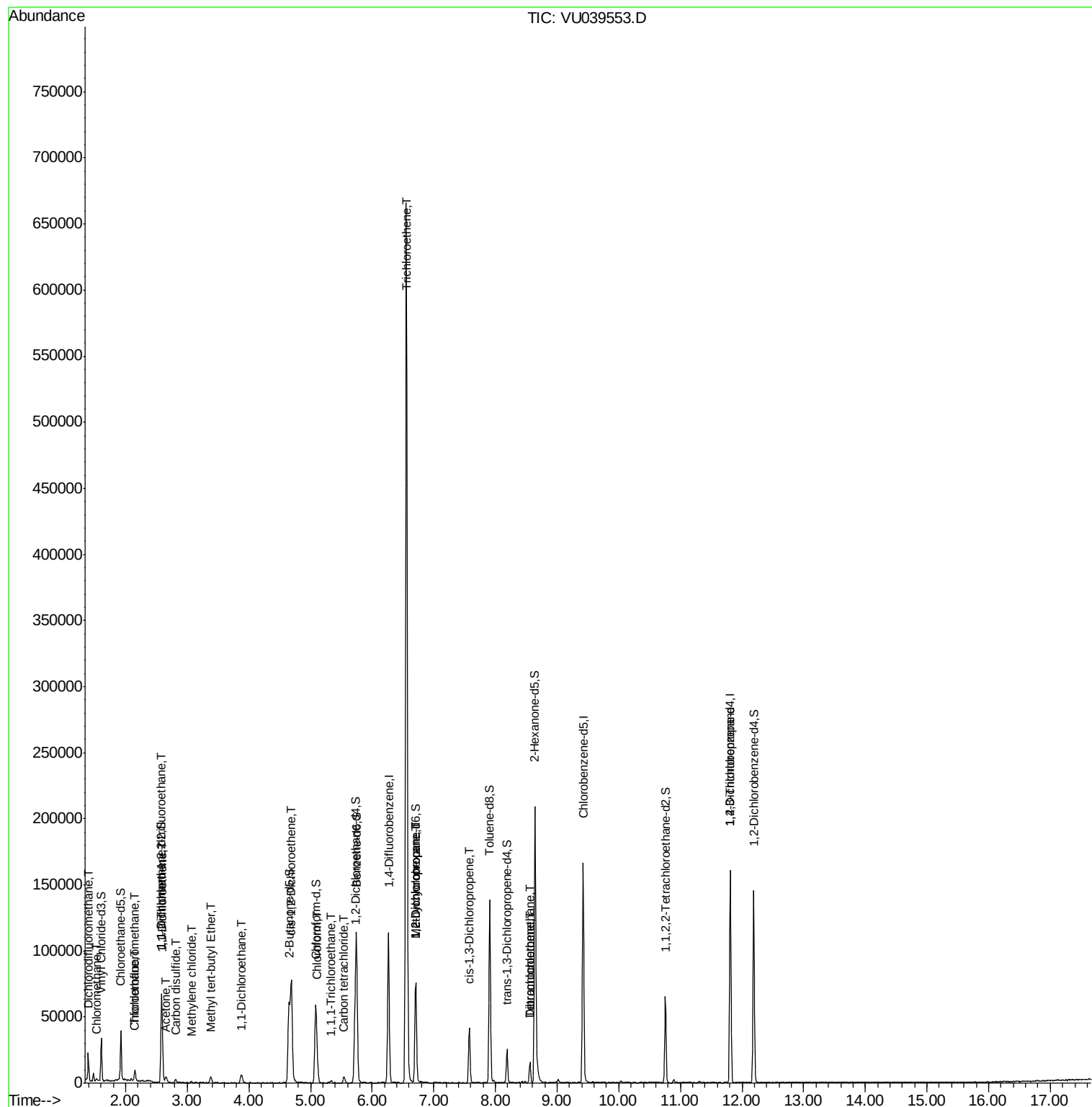
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,2-Dichloropropane	6.70	63	4435	0.640	ug/L #	91
39) cis-1,3-Dichloropropene	7.58	75	1308	0.125	ug/L	89
47) Tetrachloroethene	8.56	164	3048	0.667	ug/L	95
49) Dibromochloromethane	8.56	129	2845	0.472	ug/L #	10
59) 1,2,3-Trichloropropane	11.81	75	5993	1.173	ug/L #	88

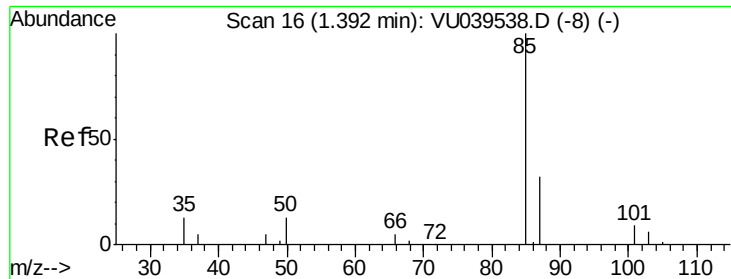
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 0.481 ug/L

RT: 1.39 min Scan# 16

Delta R.T. -0.00 min

Lab File: VU039553.D

Acq: 17 Jul 2020 15:39

Instrument :

MSVOA_U

ClientSampleId :

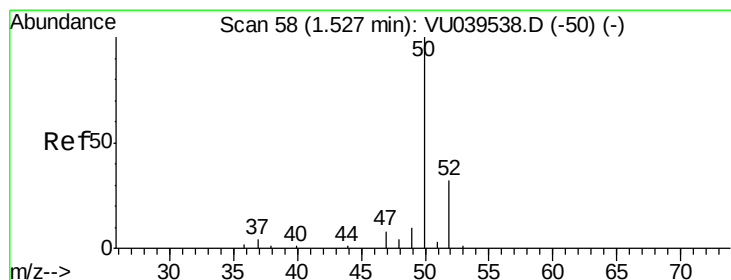
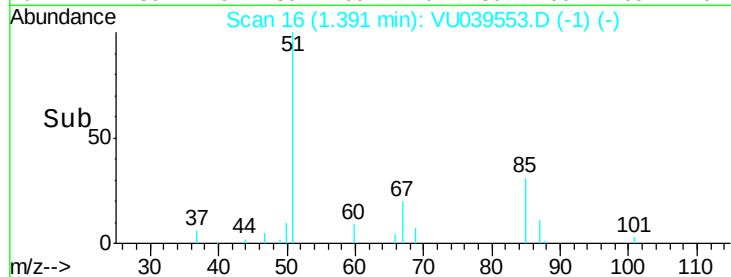
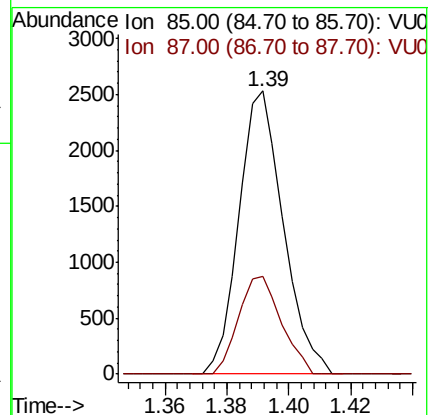
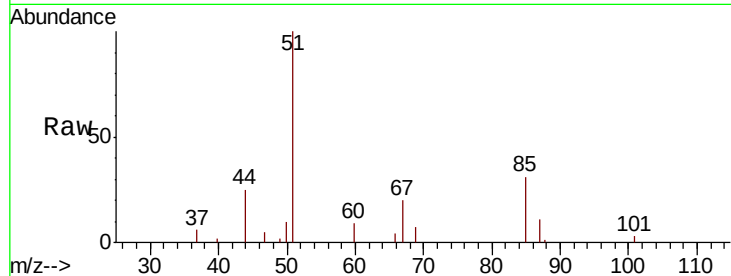
BFT93

Tot Ion: 85 Resp: 2525

Ion Ratio Lower Upper

85 100

87 33.2 25.2 37.8



#3

Chloromethane

Concen: 0.208 ug/L

RT: 1.53 min Scan# 58

Delta R.T. -0.00 min

Lab File: VU039553.D

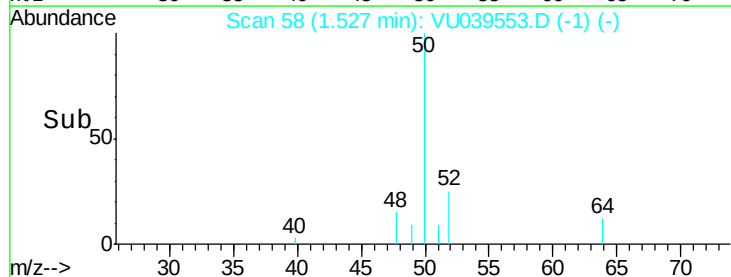
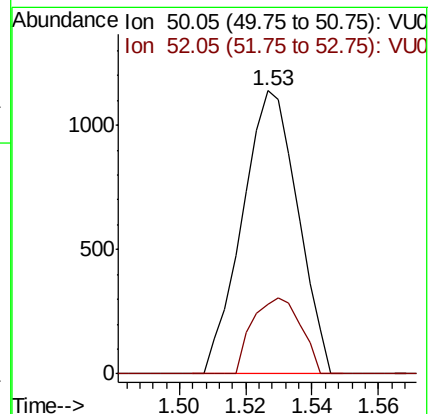
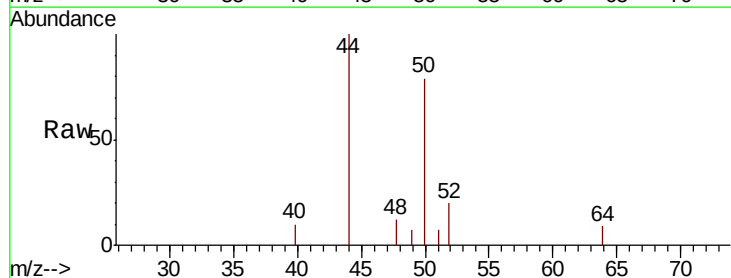
Acq: 17 Jul 2020 15:39

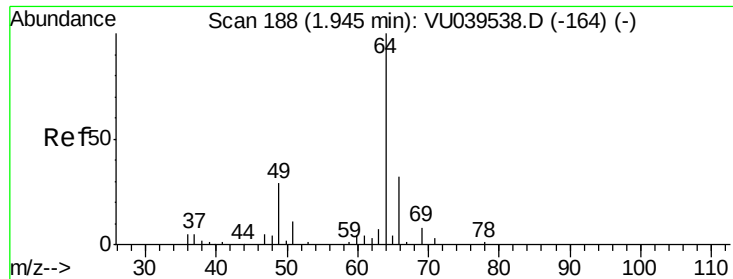
Tgt Ion: 50 Resp: 1325

Ion Ratio Lower Upper

50 100

52 24.7 23.0 42.8

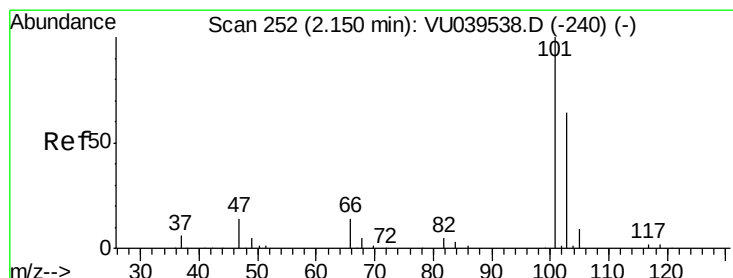
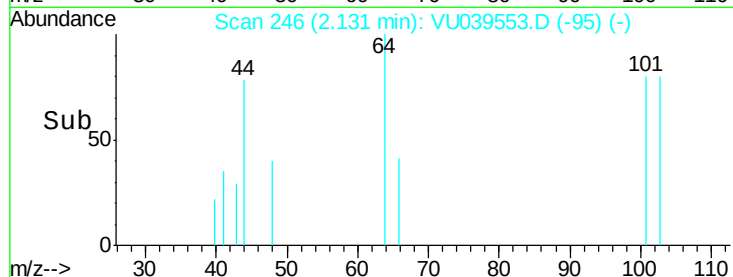
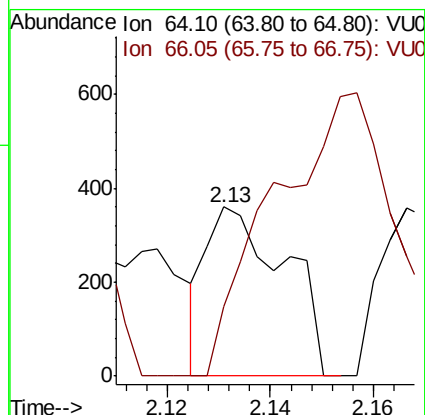
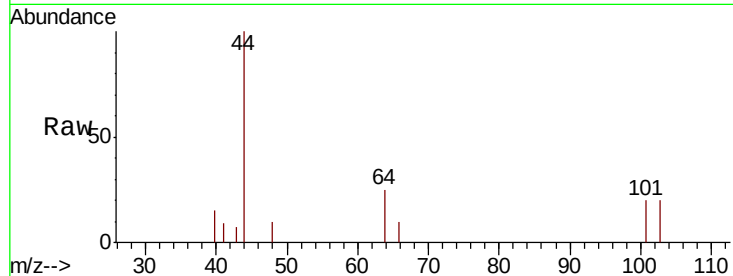




#8
Chloroethane
Concen: 0.074 ug/L
RT: 2.13 min Scan# 246
Delta R.T. 0.19 min
Lab File: VU039553.D
Acq: 17 Jul 2020 15:39

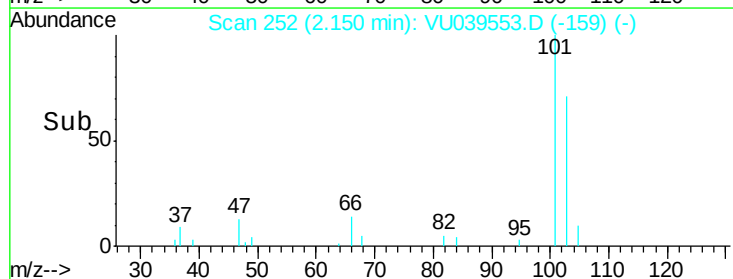
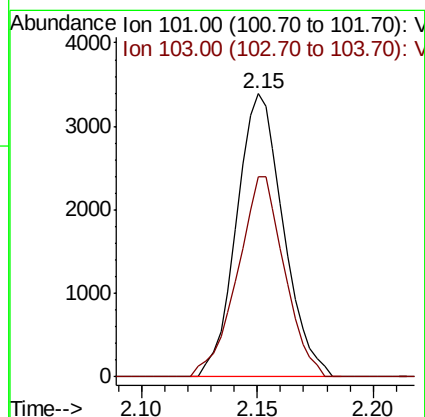
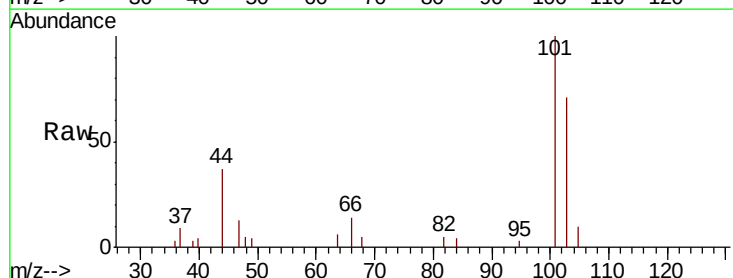
Instrument :
MSVOA_U
ClientSampleId :
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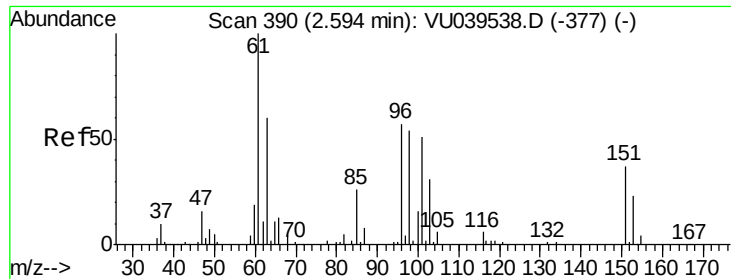
Tot Ion: 64 Resp: 378
Ion Ratio Lower Upper
64 100
66 41.0 23.5 43.7



#9
Trichlorofluoromethane
Concen: 0.386 ug/L
RT: 2.15 min Scan# 252
Delta R.T. -0.00 min
Lab File: VU039553.D
Acq: 17 Jul 2020 15:39

Tgt Ion:101 Resp: 4730
Ion Ratio Lower Upper
101 100
103 71.1 50.6 76.0





#10

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

Concen: 0.678 ug/L

RT: 2.59 min Scan# 390

Delta R.T. -0.00 min

Lab File: VU039553.D

Acq: 17 Jul 2020 15:39

Instrument :

MSVOA_U

ClientSampled :

BFT93

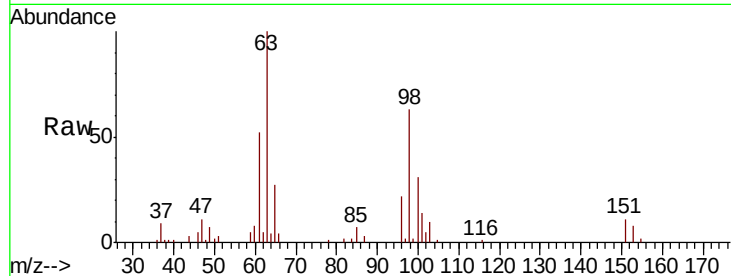
Tot Ion:101 Resp: 3411

Ion Ratio Lower Upper

101 100

85 44.9 38.9 58.3

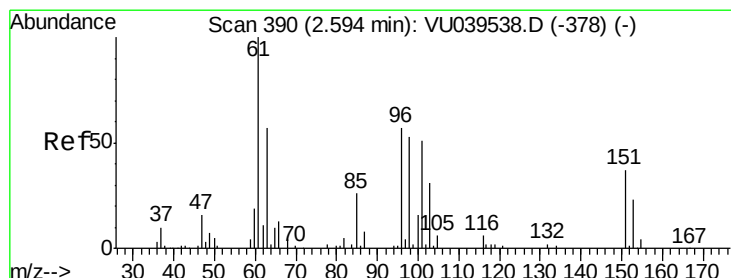
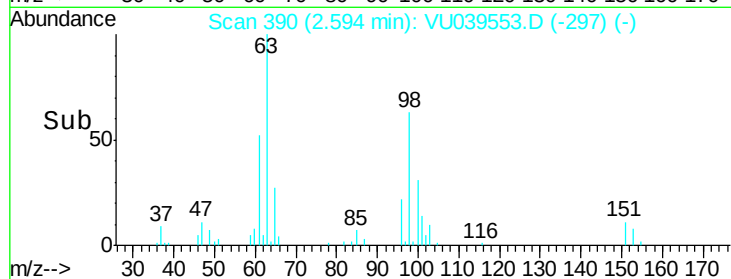
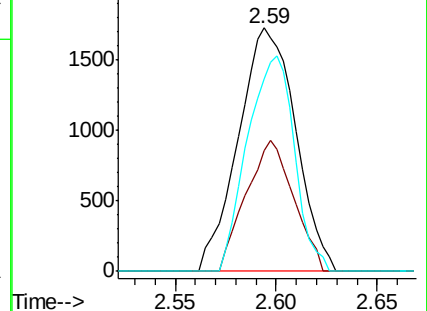
151 72.9 57.0 85.4



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: 0.903 ug/L

RT: 2.60 min Scan# 391

Delta R.T. 0.00 min

Lab File: VU039553.D

Acq: 17 Jul 2020 15:39

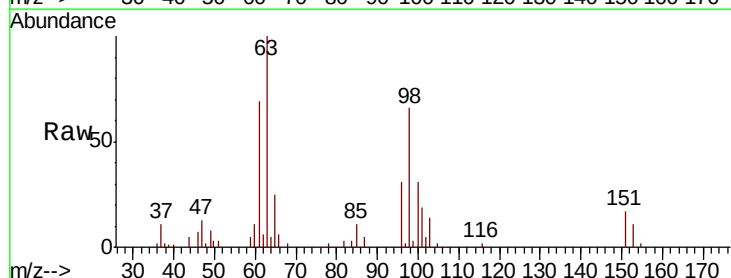
Tgt Ion: 96 Resp: 4654

Ion Ratio Lower Upper

96 100

61 220.4 125.4 232.8

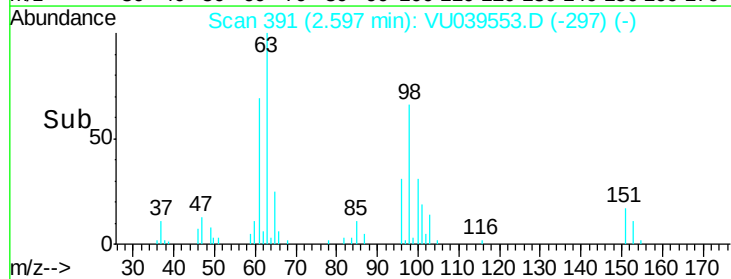
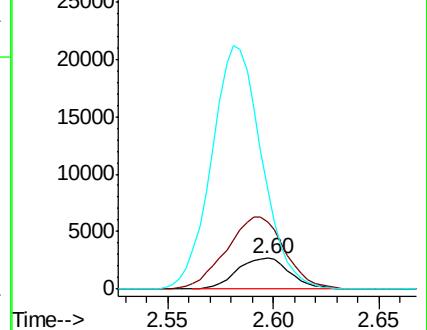
63 320.8 92.7 172.3#

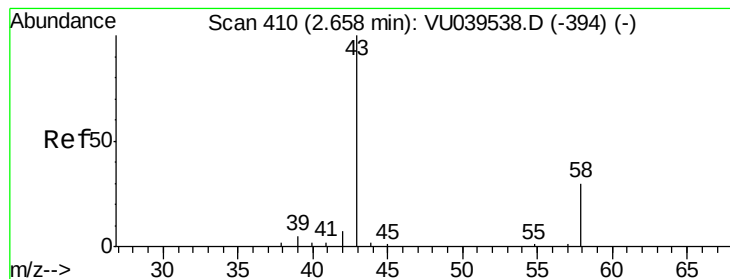


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 5.812 ug/L

RT: 2.65 min Scan# 408

Delta R.T. -0.01 min

Lab File: VU039553.D

Acq: 17 Jul 2020 15:39

Instrument :

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ClientSampleId :

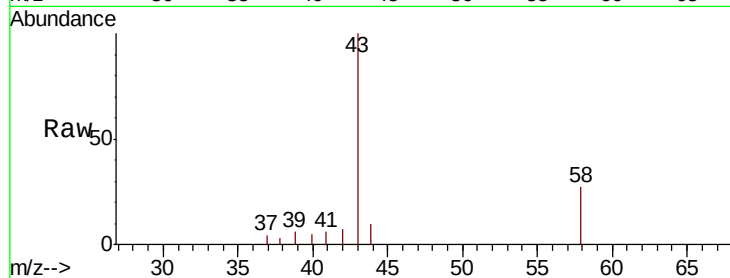
BFT93

Tot Ion: 43 Resp: 7208

Ion Ratio Lower Upper

43 100

58 26.9 0.0 62.8



Abundance Ion 43.05 (42.75 to 43.75): VU039538.D (-394) (-)

Ion 58.05 (57.75 to 58.75): VU039538.D (-394) (-)

3000

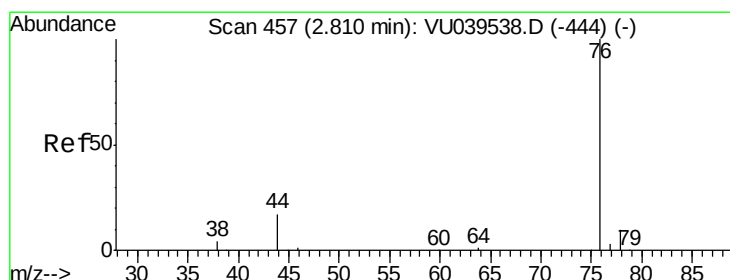
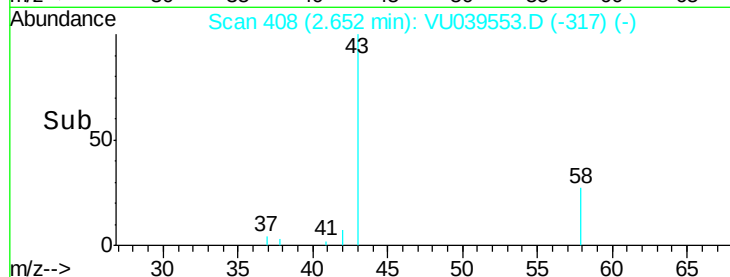
2000

1000

0

Time-->

2.60 2.65 2.70 2.75



#14

Carbon disulfide

Concen: 0.145 ug/L

RT: 2.81 min Scan# 458

Delta R.T. 0.00 min

Lab File: VU039553.D

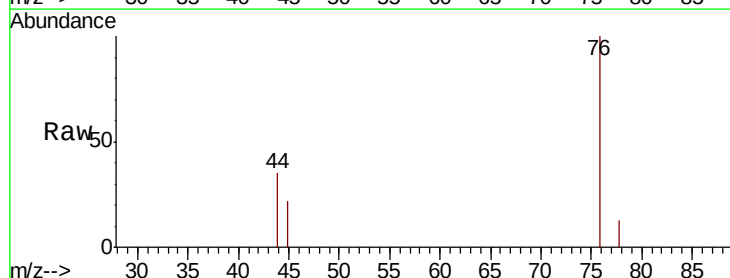
Acq: 17 Jul 2020 15:39

Tgt Ion: 76 Resp: 2630

Ion Ratio Lower Upper

76 100

78 12.8 7.0 10.4#



Abundance Ion 76.05 (75.75 to 76.75): VU039538.D (-444) (-)

Ion 78.00 (77.70 to 78.70): VU039538.D (-444) (-)

1500

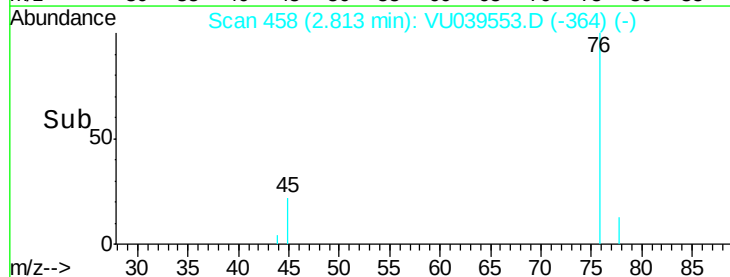
1000

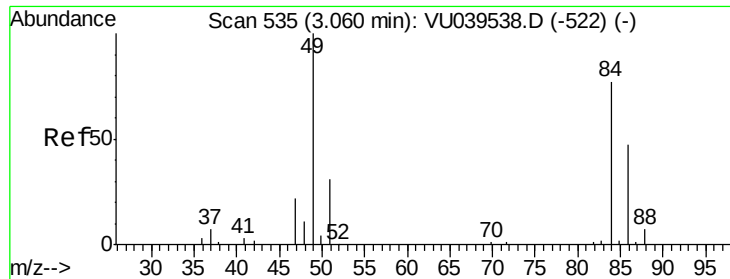
500

0

Time-->

2.75 2.80 2.85

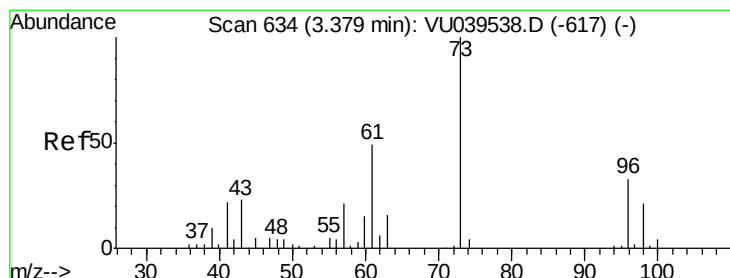
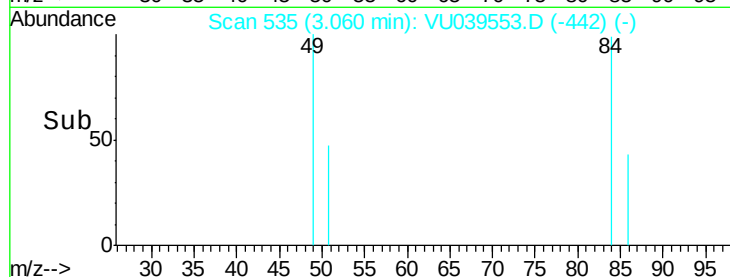
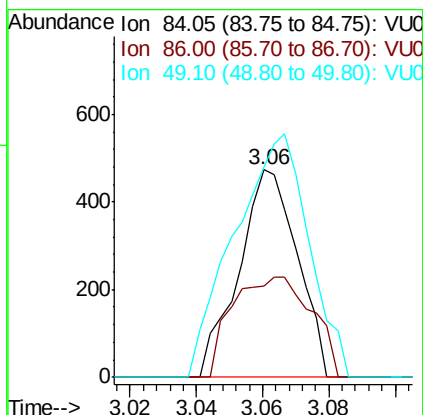
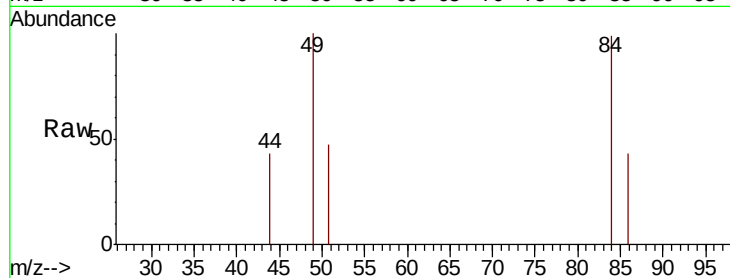




#16
Methylene chloride
Concen: 0.090 ug/L
RT: 3.06 min Scan# 535
Delta R.T. -0.00 min
Lab File: VU039553.D
Acq: 17 Jul 2020 15:39

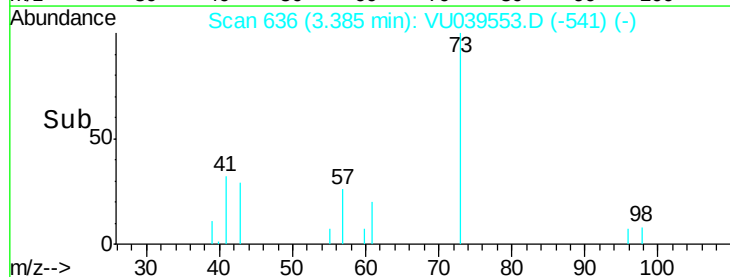
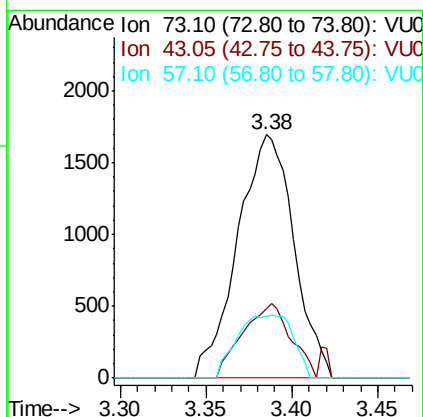
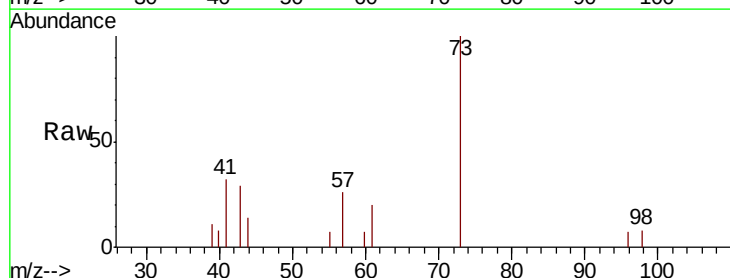
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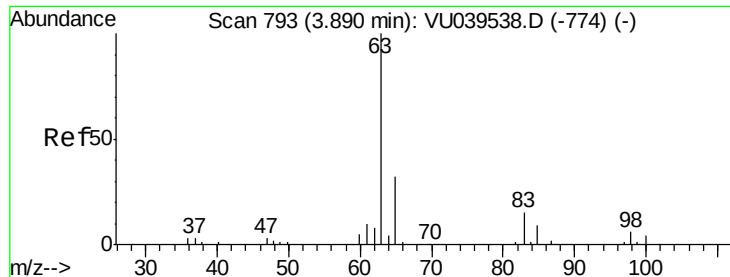
Tot Ion: 84 Resp: 582
Ion Ratio Lower Upper
84 100
86 43.7 43.5 80.9
49 101.3 91.1 169.1



#17
Methyl tert-butyl Ether
Concen: 0.237 ug/L
RT: 3.38 min Scan# 636
Delta R.T. 0.01 min
Lab File: VU039553.D
Acq: 17 Jul 2020 15:39

Tgt Ion: 73 Resp: 3849
Ion Ratio Lower Upper
73 100
43 26.3 18.6 28.0
57 25.7 17.9 26.9

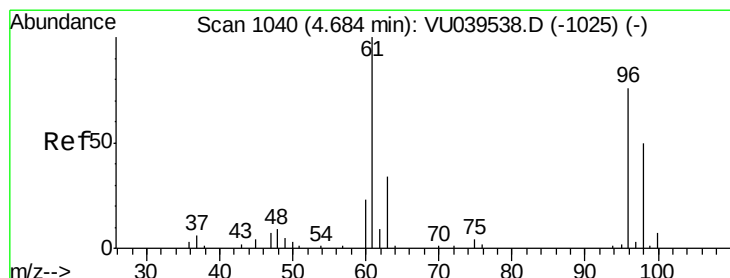
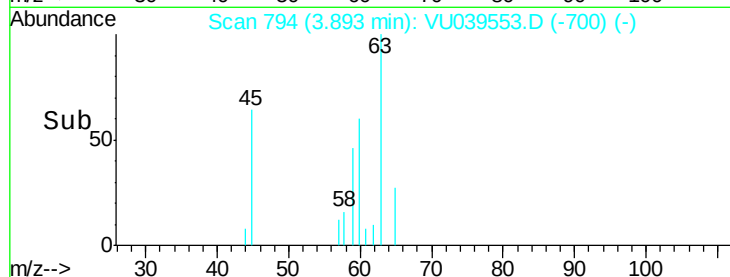
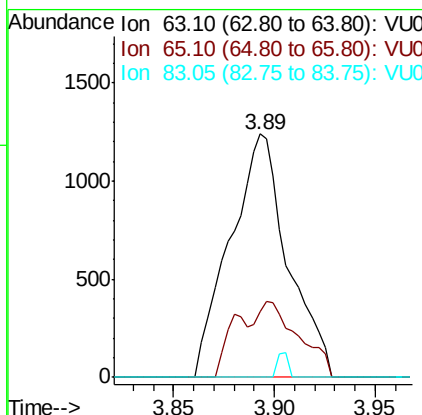
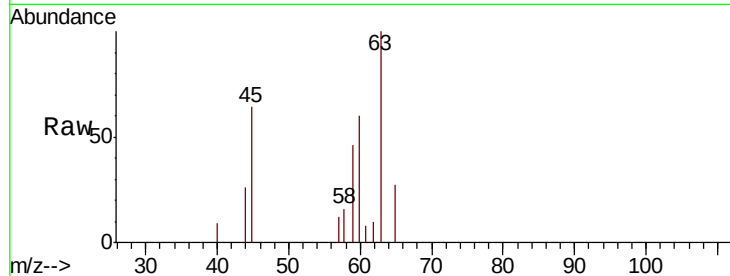




#19
 1,1-Dichloroethane
 Concen: 0.221 ug/L
 RT: 3.89 min Scan# 794
 Delta R.T. 0.00 min
 Lab File: VU039553.D
 Acq: 17 Jul 2020 15:39

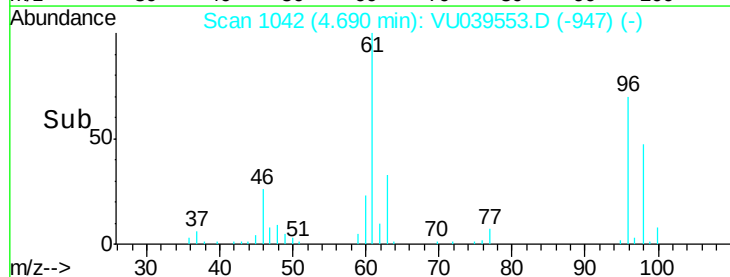
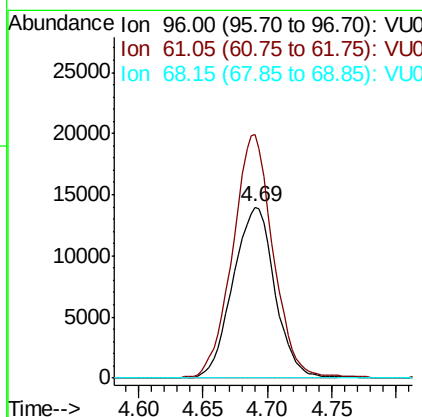
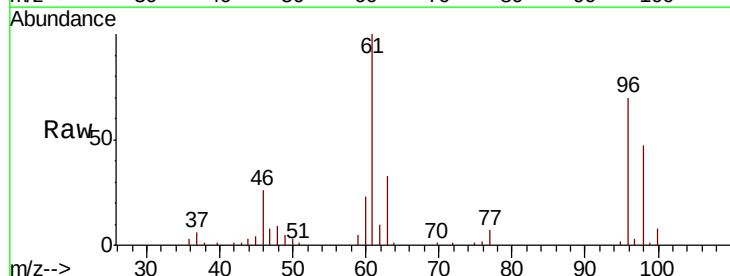
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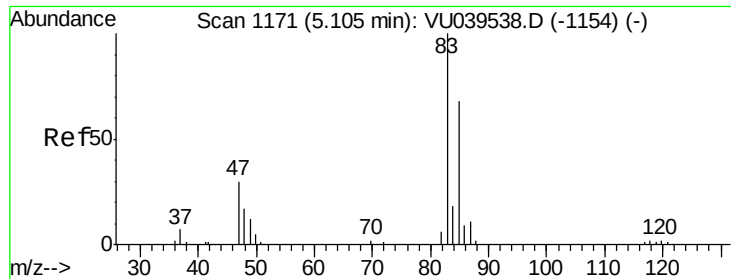
Tot Ion: 63 Resp: 2468
 Ion Ratio Lower Upper
 63 100
 65 26.9 23.0 42.6
 83 0.0 9.6 17.8#



#22
 cis-1,2-Dichloroethene
 Concen: 4.929 ug/L
 RT: 4.69 min Scan# 1042
 Delta R.T. 0.01 min
 Lab File: VU039553.D
 Acq: 17 Jul 2020 15:39

Tgt Ion: 96 Resp: 31530
 Ion Ratio Lower Upper
 96 100
 61 142.5 92.8 172.4
 68 0.0 0.0 0.0

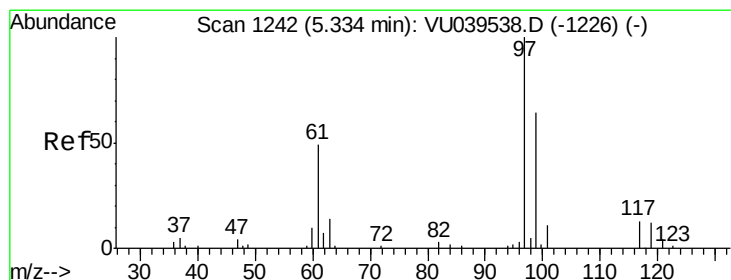
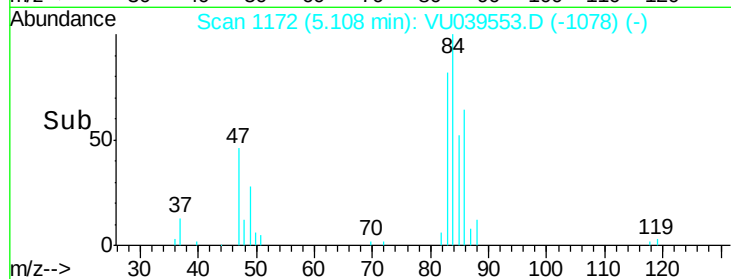
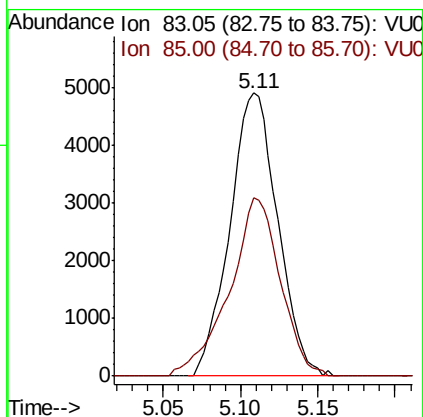
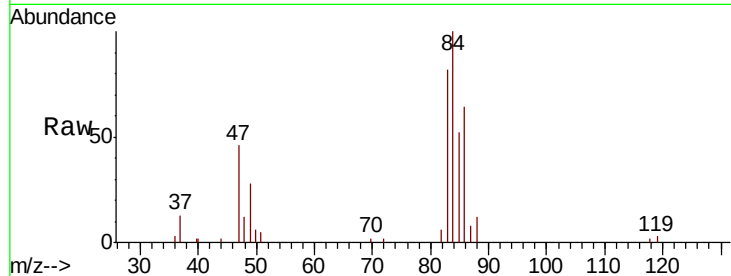




#25
Chloroform
Concen: 0.937 ug/L
RT: 5.11 min Scan# 1172
Delta R.T. 0.00 min
Lab File: VU039553.D
Acq: 17 Jul 2020 15:39

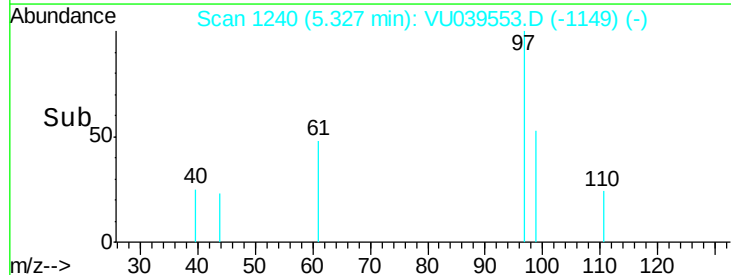
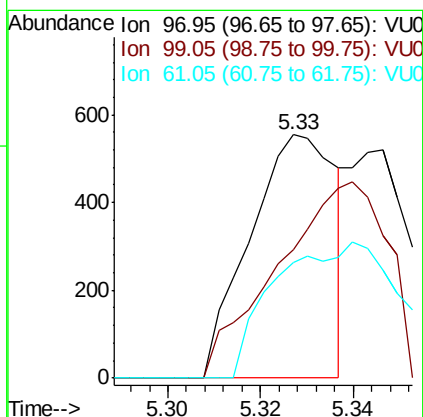
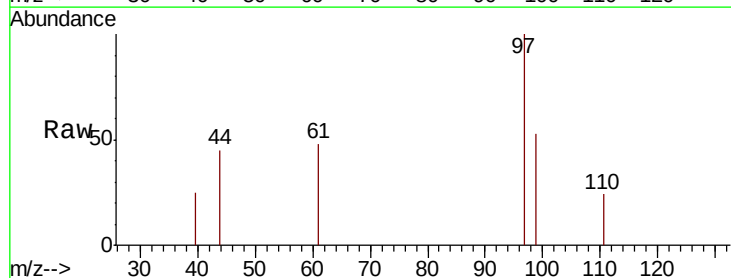
Instrument :
MSVOA_U
ClientSampled :
BFT93

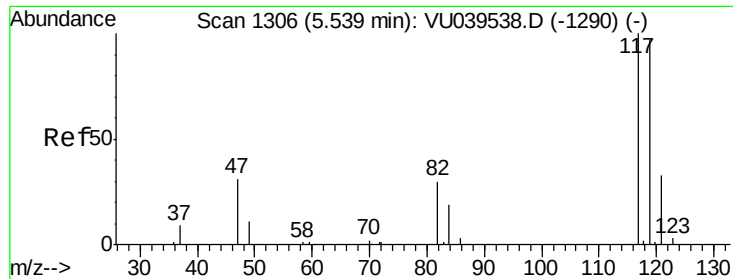
Tot Ion: 83 Resp: 10561
Ion Ratio Lower Upper
83 100
85 63.1 44.9 83.5



#29
1,1,1-Trichloroethane
Concen: 0.071 ug/L
RT: 5.33 min Scan# 1240
Delta R.T. -0.01 min
Lab File: VU039553.D
Acq: 17 Jul 2020 15:39

Tgt Ion: 97 Resp: 711
Ion Ratio Lower Upper
97 100
99 102.7 52.6 79.0#
61 80.7 37.9 56.9#





#31

Carbon tetrachloride

Concen: 0.315 ug/L

RT: 5.54 min Scan# 1306

Delta R.T. -0.00 min

Lab File: VU039553.D

Acq: 17 Jul 2020 15:39

Instrument :

MSVOA_U

ClientSampleId :

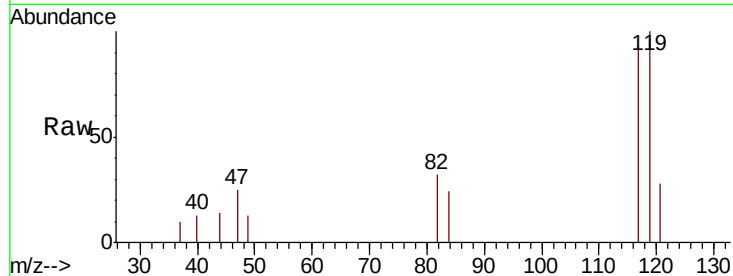
BFT93

Tot Ion:117 Resp: 2692

Ion Ratio Lower Upper

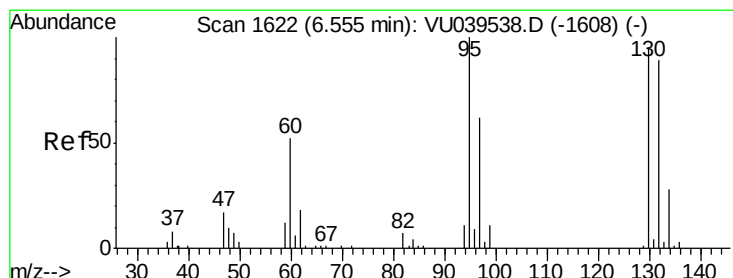
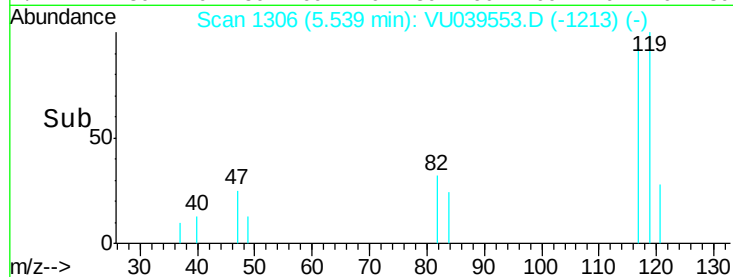
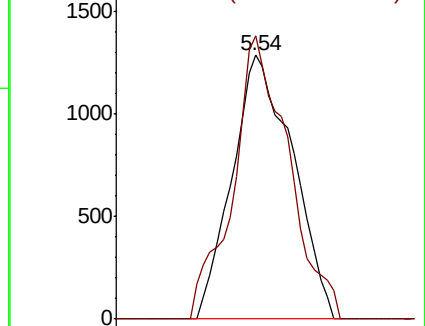
117 100

119 98.9 77.4 116.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#34

Trichloroethene

Concen: 32.365 ug/L

RT: 6.56 min Scan# 1622

Delta R.T. -0.00 min

Lab File: VU039553.D

Acq: 17 Jul 2020 15:39

Tgt Ion: 95 Resp: 212743

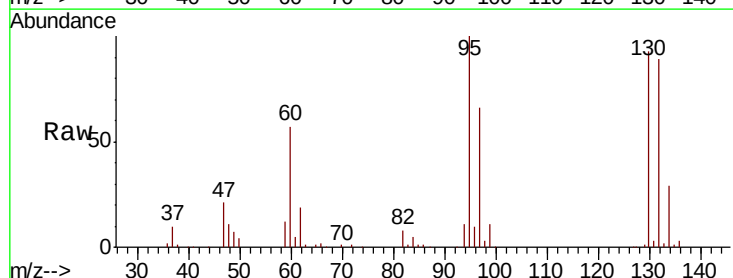
Ion Ratio Lower Upper

95 100

97 65.6 46.3 85.9

132 88.7 64.0 118.8

130 93.4 64.3 119.5

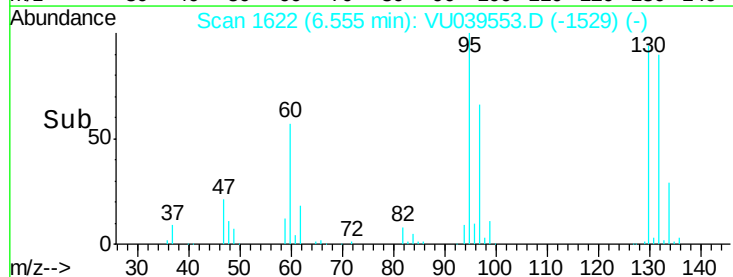
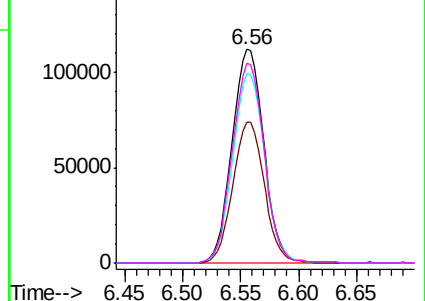


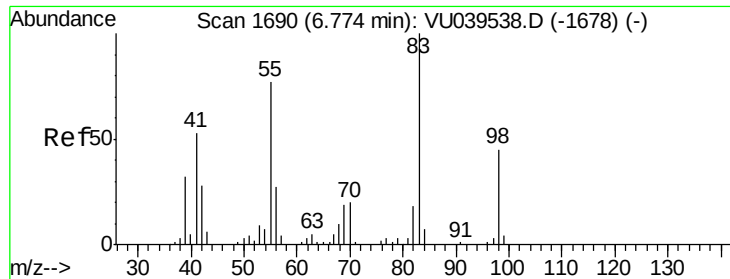
Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): VU0

Ion 129.95 (129.65 to 130.65): VU0

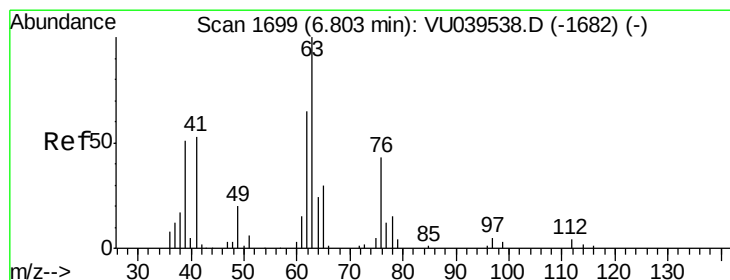
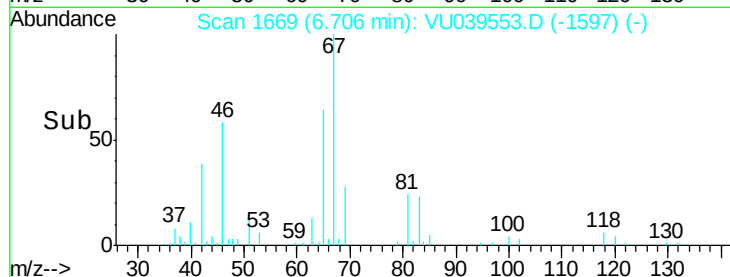
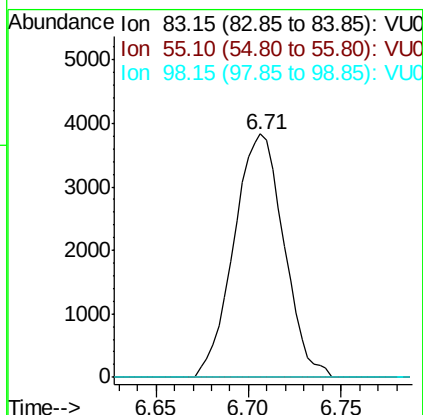
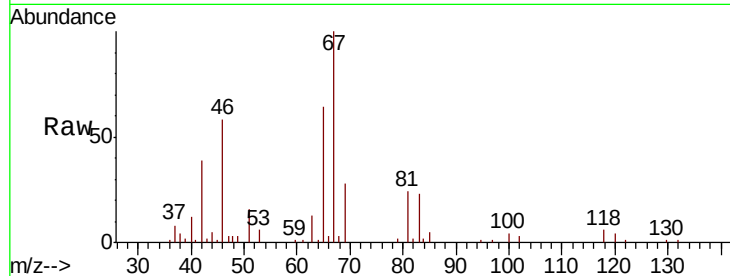




#35
Methylvlcyclohexane
Concen: 0.680 ug/L
RT: 6.71 min Scan# 1669
Delta R.T. -0.07 min
Lab File: VU039553.D
Acq: 17 Jul 2020 15:39

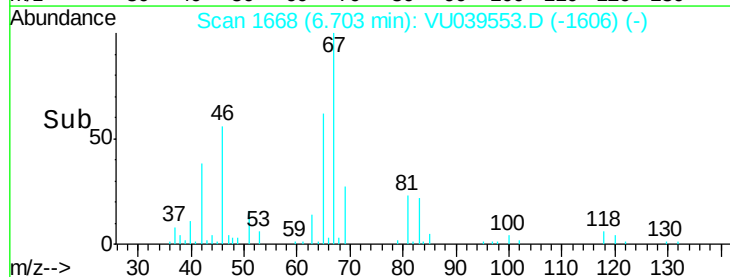
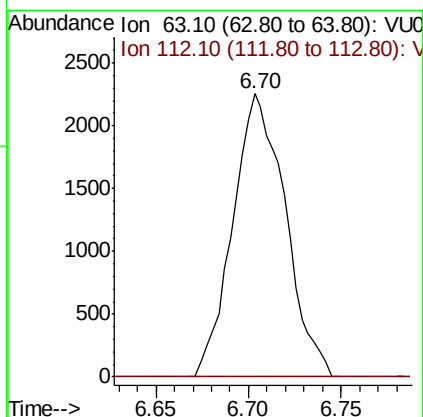
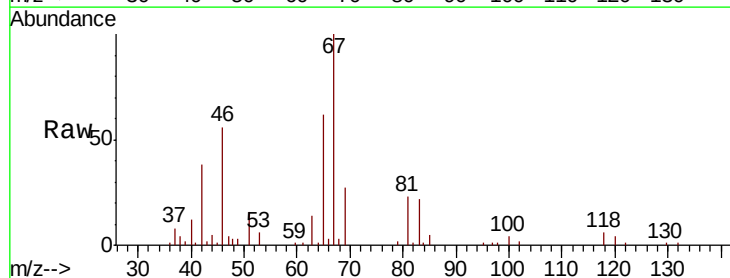
Instrument :
MSVOA_U
ClientSampleId :
BFT93

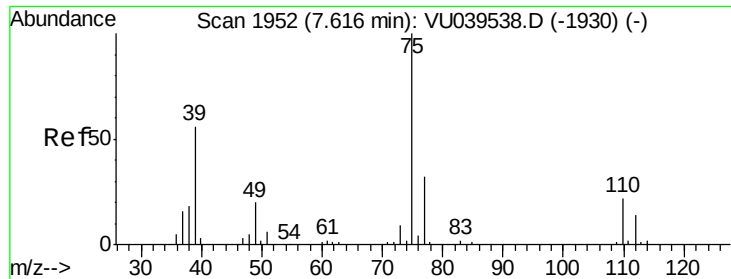
Tot Ion: 83 Resp: 7166
Ion Ratio Lower Upper
83 100
55 0.0 62.1 93.1#
98 0.0 35.9 53.9#



#37
1,2-Dichloropropane
Concen: 0.640 ug/L
RT: 6.70 min Scan# 1668
Delta R.T. -0.10 min
Lab File: VU039553.D
Acq: 17 Jul 2020 15:39

Tgt Ion: 63 Resp: 4435
Ion Ratio Lower Upper
63 100
112 0.0 2.5 3.7#

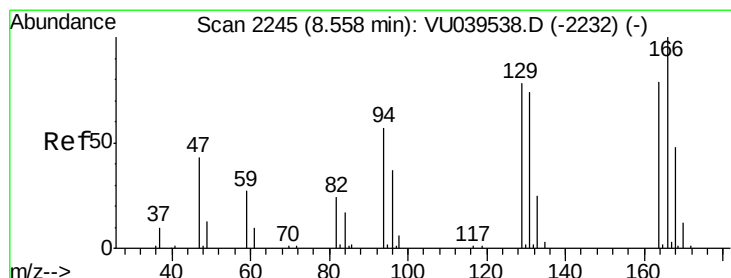
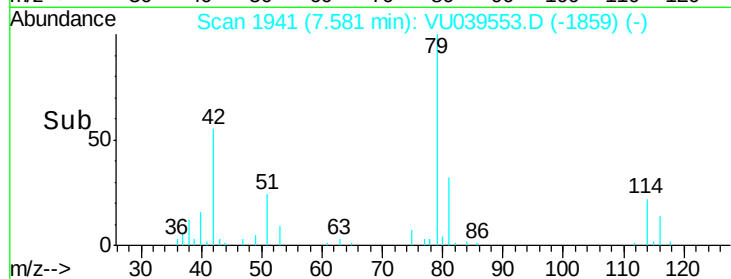
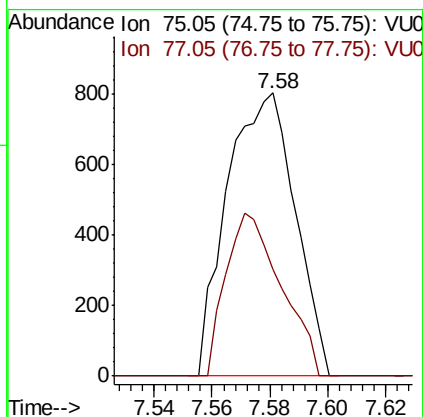
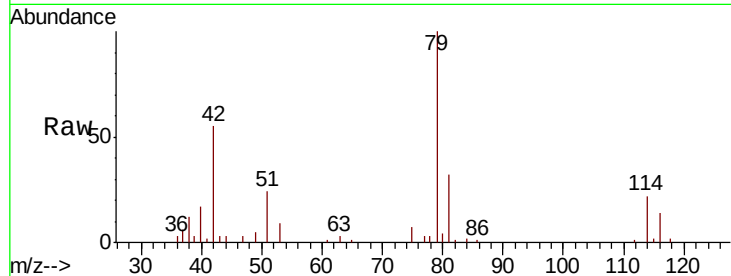




#39
 cis-1,3-Dichloropropene
 Concen: 0.125 ug/L
 RT: 7.58 min Scan# 1941
 Delta R.T. -0.04 min
 Lab File: VU039553.D
 Acq: 17 Jul 2020 15:39

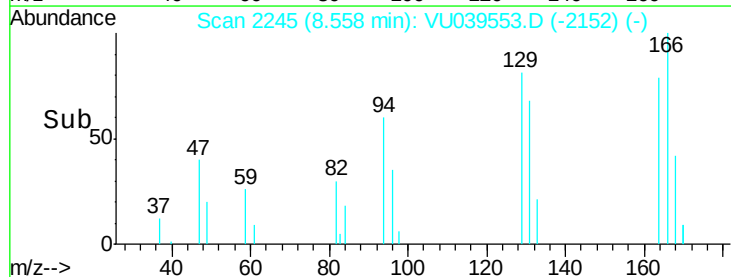
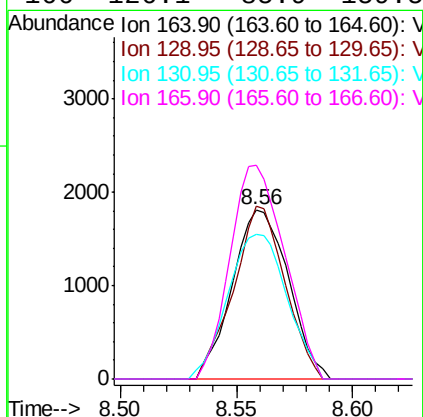
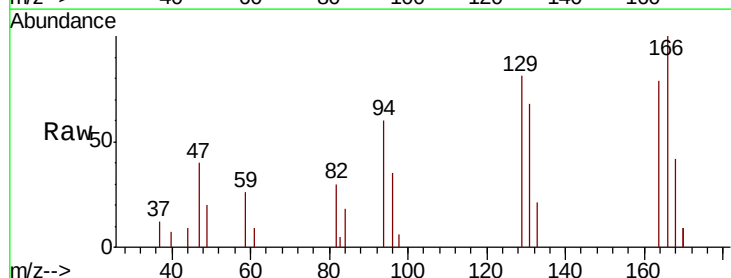
Instrument :
 MSVOA_U
 ClientSampleId :
 BFT93

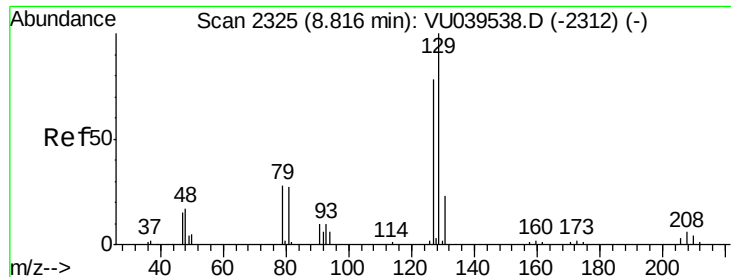
Tot Ion: 75 Resp: 1308
 Ion Ratio Lower Upper
 75 100
 77 37.9 22.3 41.3



#47
 Tetrachloroethene
 Concen: 0.667 ug/L
 RT: 8.56 min Scan# 2245
 Delta R.T. -0.00 min
 Lab File: VU039553.D
 Acq: 17 Jul 2020 15:39

Tgt Ion:164 Resp: 3048
 Ion Ratio Lower Upper
 164 100
 129 102.1 68.6 127.4
 131 85.2 66.4 123.4
 166 126.1 85.9 159.5





#49

Dibromochloromethane

Concen: 0.472 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. -0.26 min

Lab File: VU039553.D

Acq: 17 Jul 2020 15:39

Instrument :

MSVOA_U

ClientSampled :

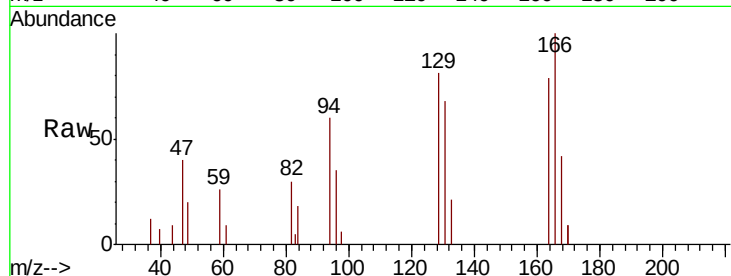
BFT93

Tot Ion:129 Resp: 2845

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

2000

1500

1000

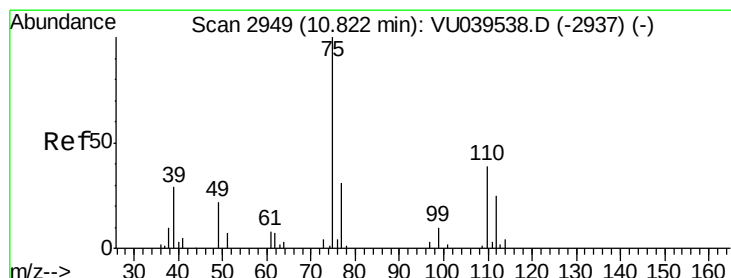
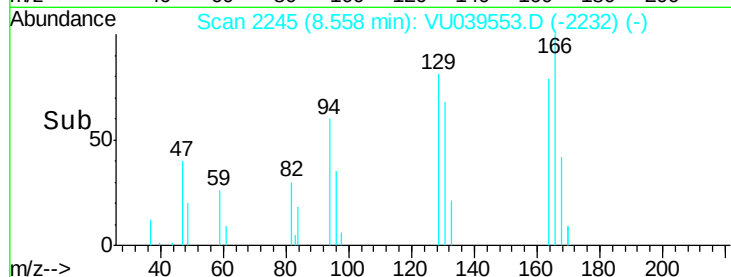
500

0

Time--> 8.50

8.55

8.60



#59

1,2,3-Trichloropropane

Concen: 1.173 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.98 min

Lab File: VU039553.D

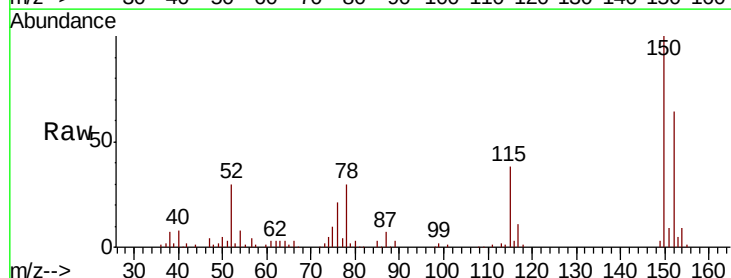
Acq: 17 Jul 2020 15:39

Tgt Ion: 75 Resp: 5993

Ion Ratio Lower Upper

75 100

77 40.3 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

4000

3000

2000

1000

0

Time--> 11.75

11.80

11.85

