

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU051220\
 Data File : VU038128.D
 Acq On : 12 May 2020 16:45
 Operator : JC/MD
 Sample : L2570-07
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BFSP5

Quant Time: May 13 10:44:51 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed May 13 01:13:24 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	370094	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	360913	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	181582	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	137605	4.07	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	81.40%
7) Chloroethane-d5	1.93	69	126447	4.32	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	86.40%
11) 1,1-Dichloroethene-d2	2.59	63	183111	3.24	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	64.80%
20) 2-Butanone-d5	4.69	46	518305	62.06	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	124.12%
24) Chloroform-d	5.10	84	240389	4.68	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.60%
26) 1,2-Dichloroethane-d4	5.74	65	141561	4.81	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.20%
32) Benzene-d6	5.76	84	508931	4.70	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.00%
36) 1,2-Dichloropropane-d6	6.72	67	166543	4.77	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	95.40%
41) Toluene-d8	7.92	98	450958	4.64	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.80%
43) trans-1,3-Dichloropropene-	8.20	79	63525	4.54	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	90.80%
46) 2-Hexanone-d5	8.65	63	398999	60.43	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	120.86%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	142441	5.17	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	103.40%
64) 1,2-Dichlorobenzene-d4	12.20	152	173184	4.90	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	98.00%

Target Compounds

						Qvalue
5) Vinyl chloride	1.62	62	60715	1.52	ug/L	95
18) trans-1,2-Dichloroethene	3.39	96	2880	0.10	ug/L	79
19) 1,1-Dichloroethane	3.91	63	118849	2.17	ug/L	99
22) cis-1,2-Dichloroethene	4.71	96	165701	5.48	ug/L	100
27) 1,2-Dichloroethane	5.83	62	52005	1.44	ug/L	99
29) 1,1,1-Trichloroethane	5.35	97	6947	0.17	ug/L	92
30) Cyclohexane	5.42	56	99288	2.03	ug/L	93
33) Benzene	5.81	78	1062513	9.19	ug/L	100
34) Trichloroethene	6.57	95	25944	0.90	ug/L	97
35) Methylcyclohexane	6.79	83	32102	0.69	ug/L #	86
42) Toluene	7.99	91	114701	0.94	ug/L	96
47) Tetrachloroethene	8.57	164	3484	0.17	ug/L	89
48) 2-Hexanone	8.71	43	43086	2.70	ug/L #	90
51) Chlorobenzene	9.46	112	744724	9.84	ug/L	99
52) Ethylbenzene	9.59	91	640317	4.85	ug/L	99
53) m,p-Xylene	9.71	106	732993	14.46	ug/L	99
54) o-Xylene	10.11	106	162925	3.33	ug/L	99

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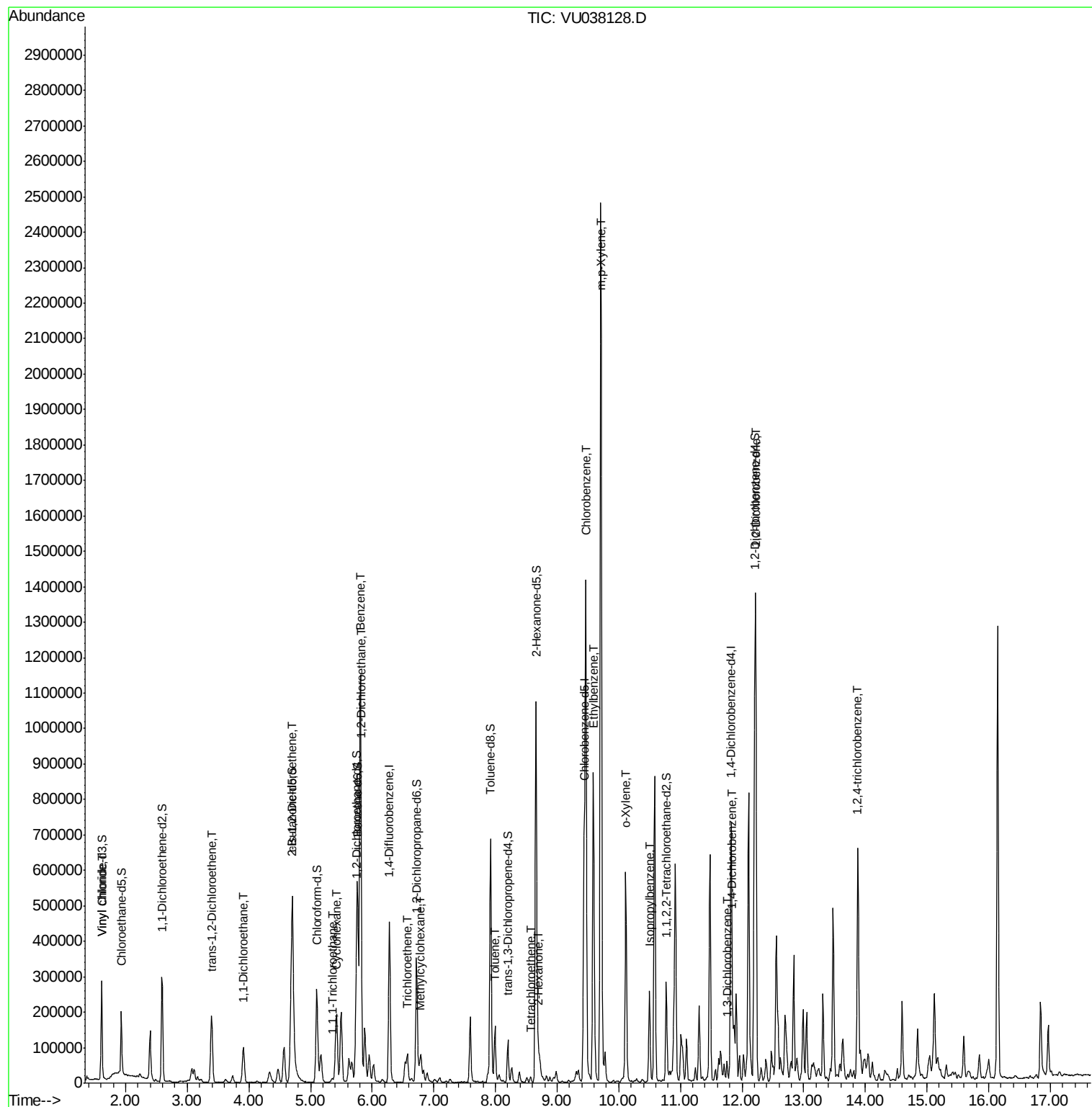
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
56) Isopropylbenzene	10.50	105	171832	1.37	ug/L	99
62) 1,3-Dichlorobenzene	11.76	146	17336	0.29	ug/L	94
63) 1,4-Dichlorobenzene	11.85	146	50600	0.85	ug/L	98
65) 1,2-Dichlorobenzene	12.22	146	466209	8.20	ug/L	98
68) 1,2,4-trichlorobenzene	13.87	180	11053	0.28	ug/L #	87

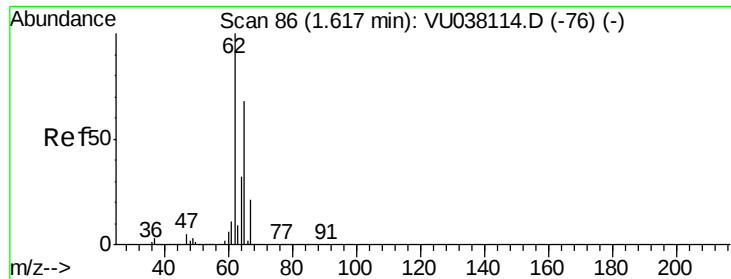
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 1.52 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU038128.D

Acq: 12 May 2020 16:45

Instrument :

MSVOA_U

ClientSampleId :

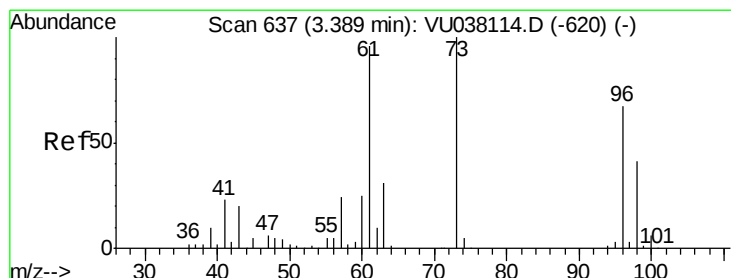
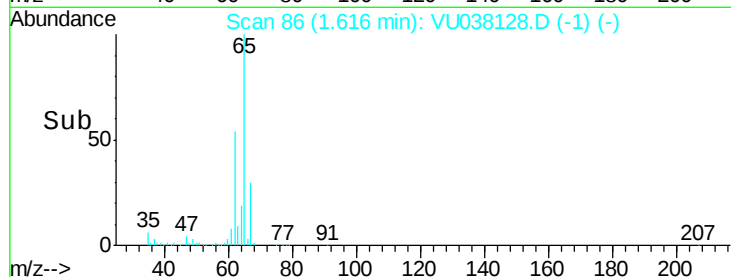
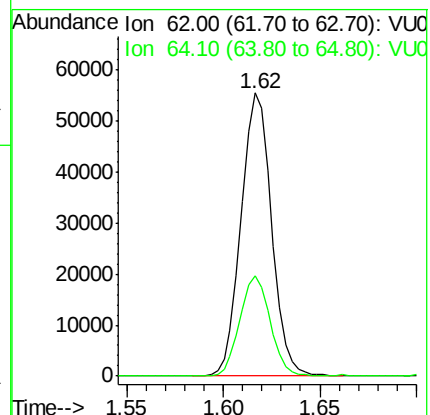
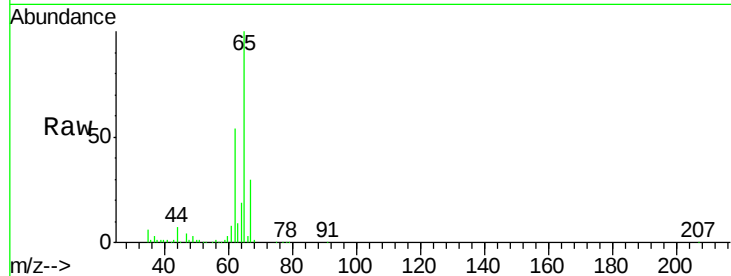
BFSP5

Tgt Ion: 62 Resp: 60715

Ion Ratio Lower Upper

62 100

64 35.5 22.8 42.4



#18

trans-1,2-Dichloroethene

Concen: 0.10 ug/L

RT: 3.39 min Scan# 637

Delta R.T. -0.00 min

Lab File: VU038128.D

Acq: 12 May 2020 16:45

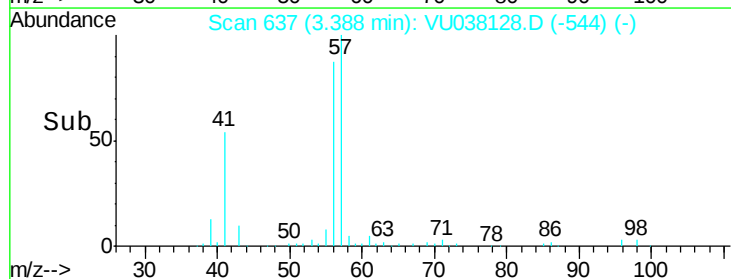
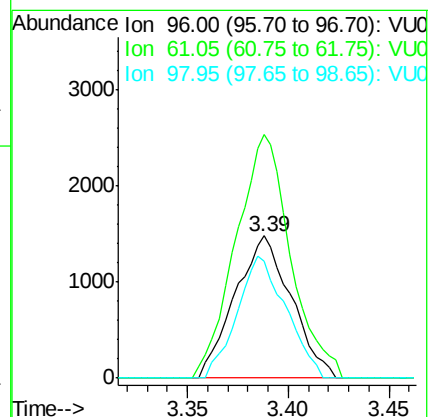
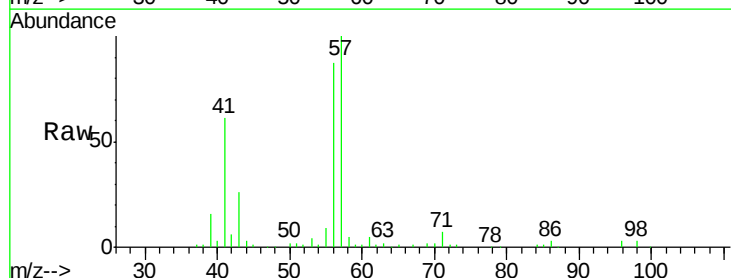
Tgt Ion: 96 Resp: 2880

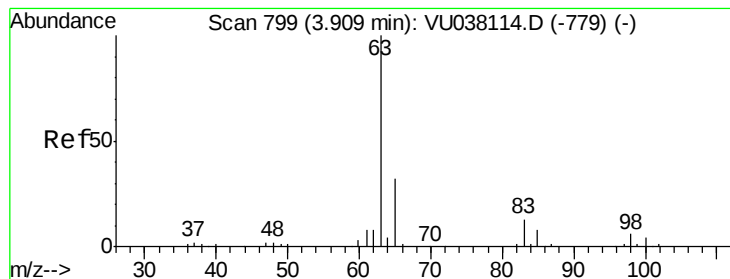
Ion Ratio Lower Upper

96 100

61 171.2 102.1 189.5

98 82.4 45.6 84.8





#19

1,1-Dichloroethane

Concen: 2.17 ug/L

RT: 3.91 min Scan# 799

Delta R.T. -0.00 min

Lab File: VU038128.D

Acq: 12 May 2020 16:45

Instrument :

MSVOA_U

ClientSampleId :

BFSP5

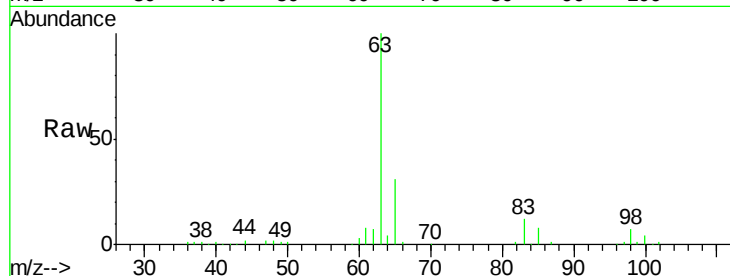
Tgt Ion: 63 Resp: 118849

Ion Ratio Lower Upper

63 100

65 31.4 22.5 41.7

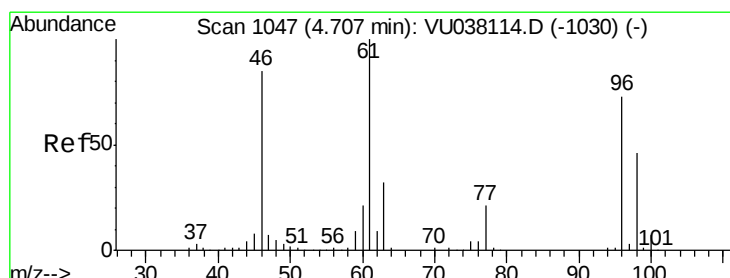
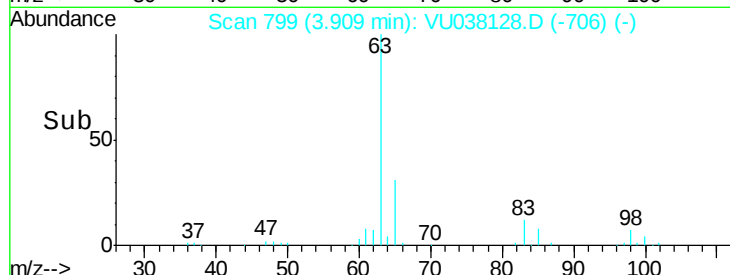
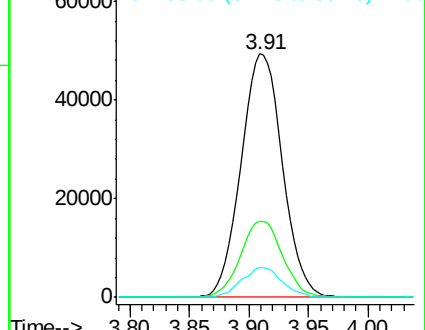
83 12.2 8.9 16.5



Abundance Ion 63.10 (62.80 to 63.80): VU038128.D (-779) (-)

Ion 65.10 (64.80 to 65.80): VU038128.D (-779) (-)

Ion 83.05 (82.75 to 83.75): VU038128.D (-779) (-)



#22

cis-1,2-Dichloroethene

Concen: 5.48 ug/L

RT: 4.71 min Scan# 1047

Delta R.T. -0.00 min

Lab File: VU038128.D

Acq: 12 May 2020 16:45

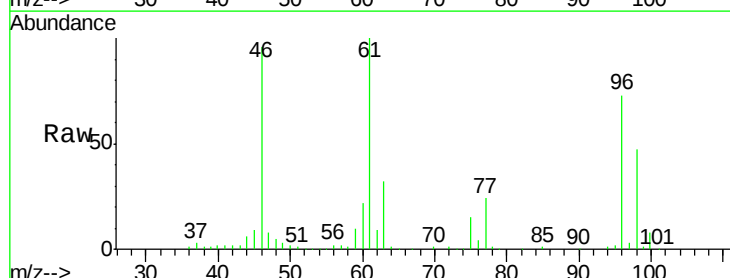
Tgt Ion: 96 Resp: 165701

Ion Ratio Lower Upper

96 100

61 136.7 95.3 176.9

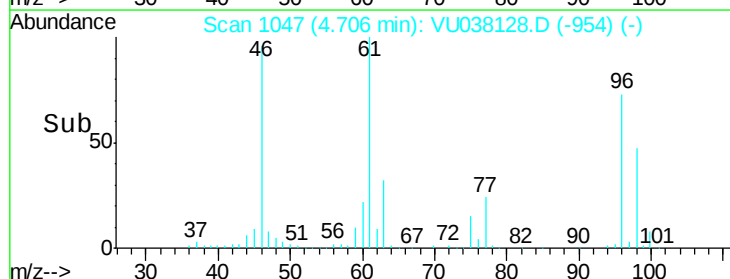
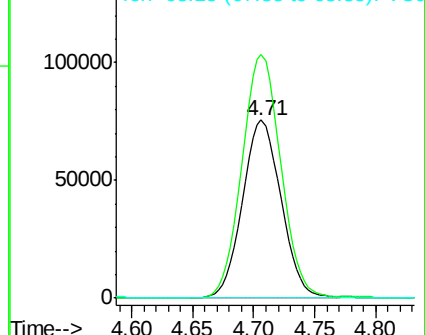
68 0.0 0.0 0.0

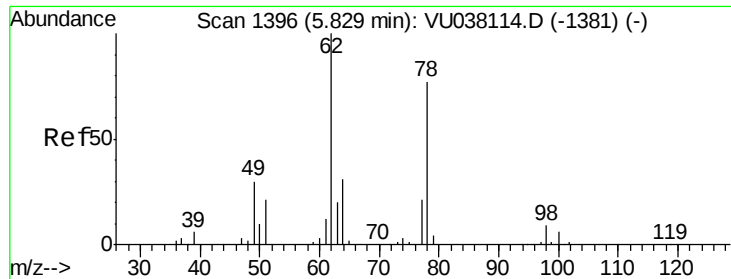


Abundance Ion 96.00 (95.70 to 96.70): VU038128.D (-954) (-)

Ion 61.05 (60.75 to 61.75): VU038128.D (-954) (-)

Ion 68.15 (67.85 to 68.85): VU038128.D (-954) (-)

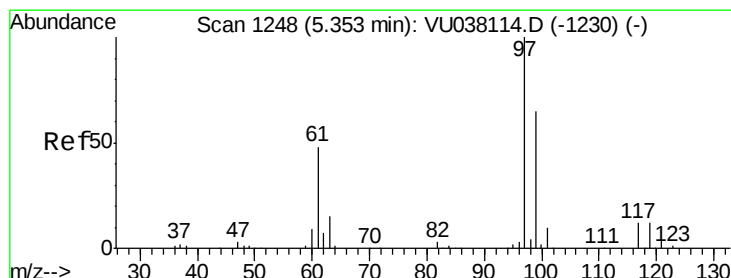
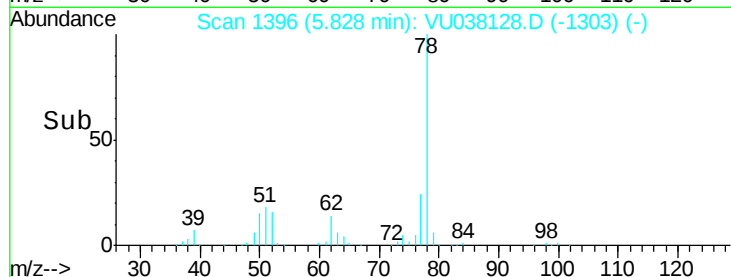
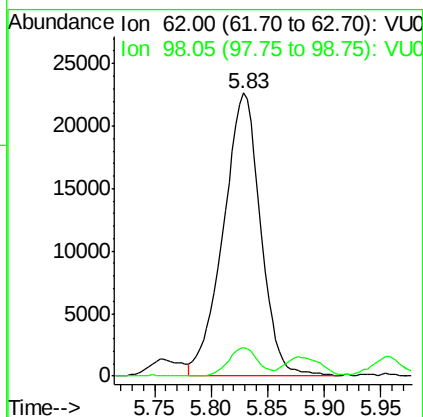
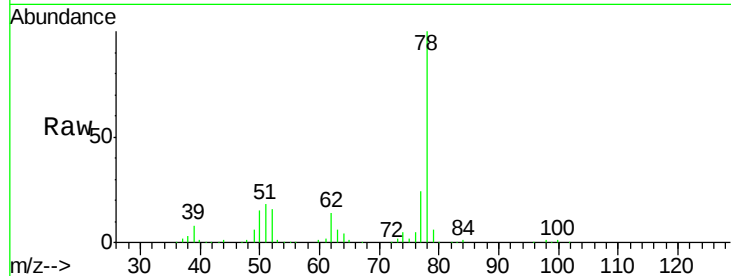




#27
 1,2-Dichloroethane
 Concen: 1.44 ug/L
 RT: 5.83 min Scan# 1396
 Delta R.T. -0.00 min
 Lab File: VU038128.D
 Acq: 12 May 2020 16:45

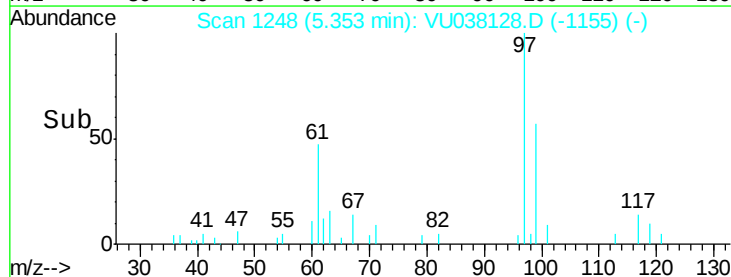
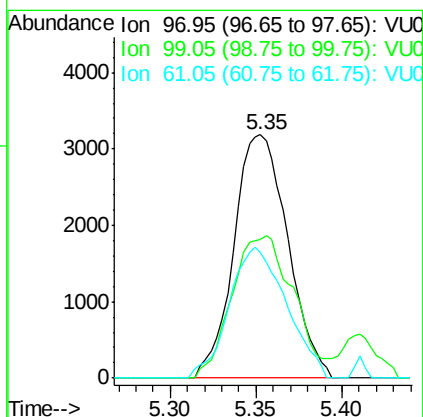
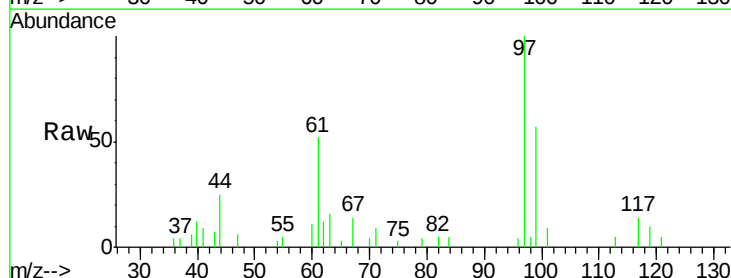
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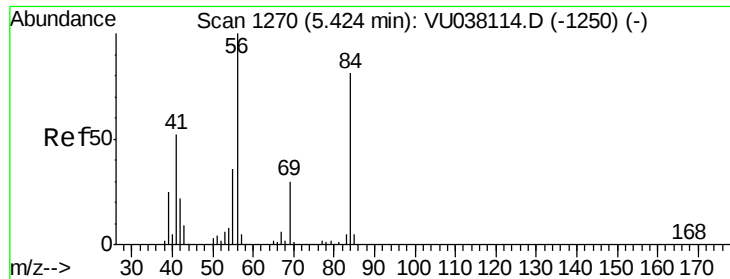
Tgt Ion: 62 Resp: 52005
 Ion Ratio Lower Upper
 62 100
 98 10.1 7.8 11.8



#29
 1,1,1-Trichloroethane
 Concen: 0.17 ug/L
 RT: 5.35 min Scan# 1248
 Delta R.T. -0.00 min
 Lab File: VU038128.D
 Acq: 12 May 2020 16:45

Tgt Ion: 97 Resp: 6947
 Ion Ratio Lower Upper
 97 100
 99 66.8 51.0 76.4
 61 57.1 38.2 57.4

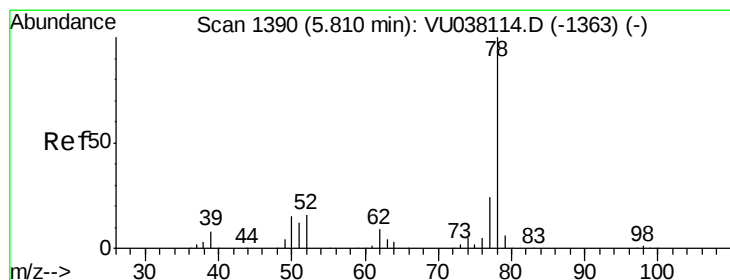
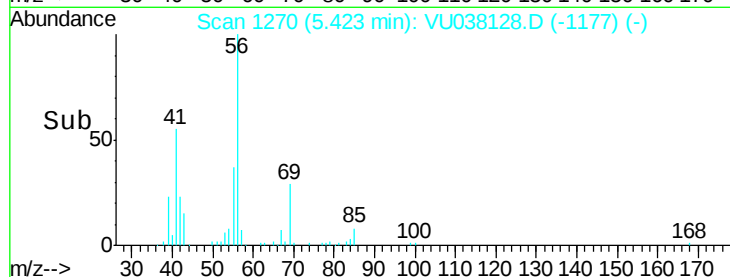
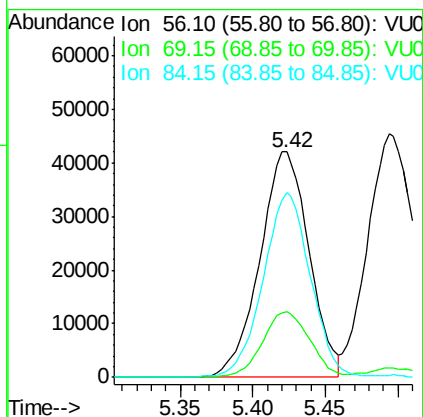
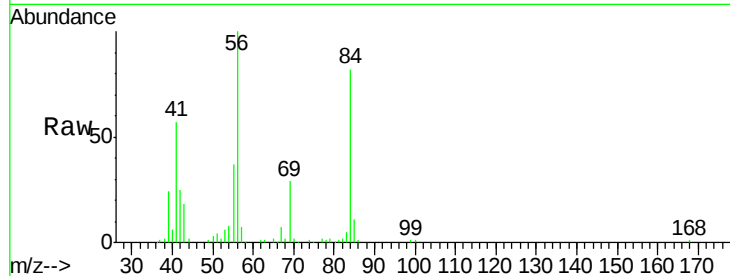




#30
Cyclohexane
Concen: 2.03 ug/L
RT: 5.42 min Scan# 1270
Delta R.T. -0.00 min
Lab File: VU038128.D
Acq: 12 May 2020 16:45

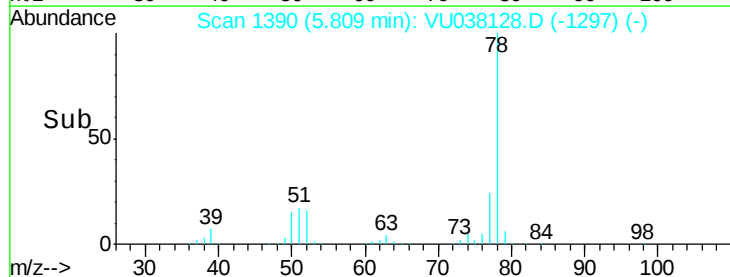
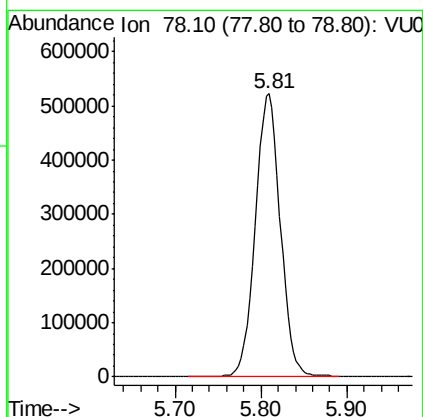
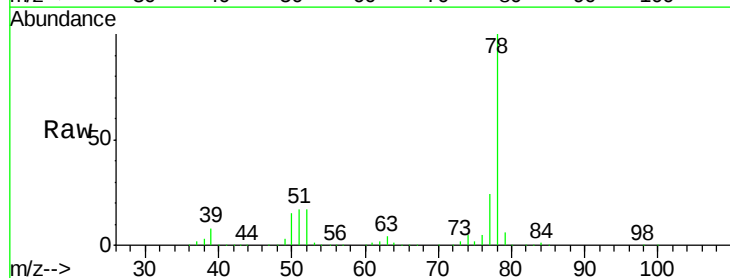
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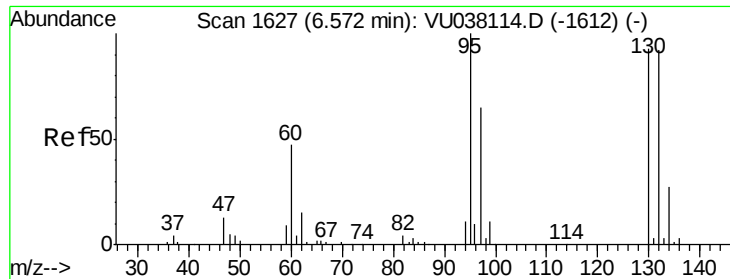
Tgt Ion: 56 Resp: 99288
Ion Ratio Lower Upper
56 100
69 28.1 24.2 36.4
84 78.8 68.5 102.7



#33
Benzene
Concen: 9.19 ug/L
RT: 5.81 min Scan# 1390
Delta R.T. -0.00 min
Lab File: VU038128.D
Acq: 12 May 2020 16:45

Tgt Ion: 78 Resp: 1062513

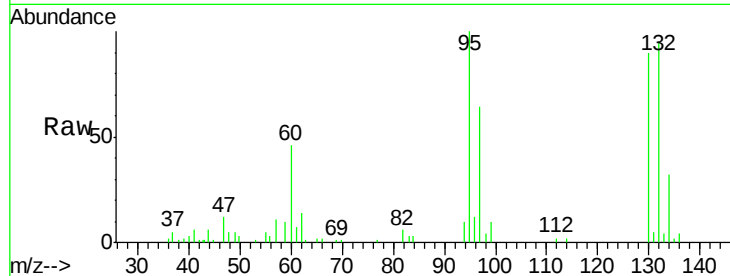




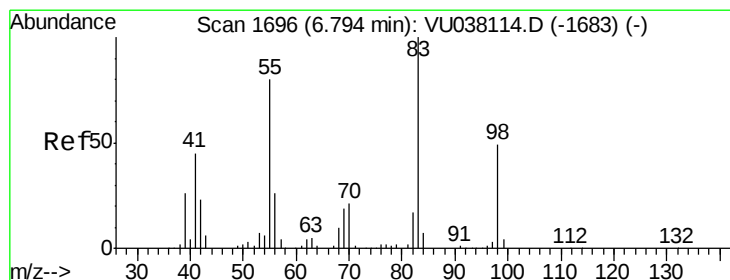
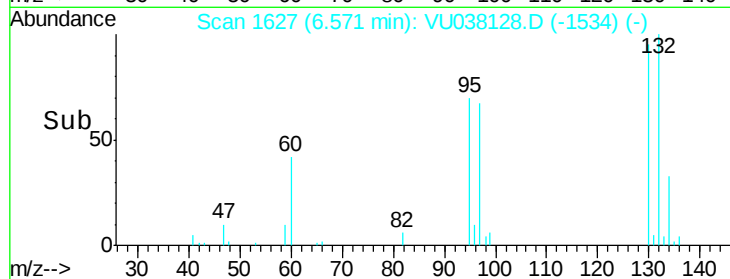
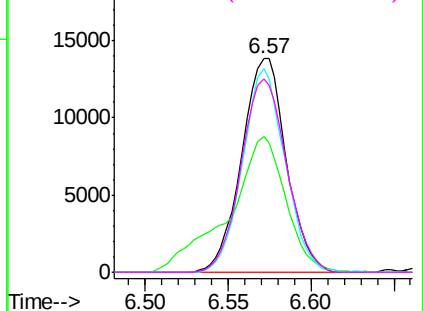
#34
 Trichloroethene
 Concen: 0.90 ug/L
 RT: 6.57 min Scan# 1627
 Delta R.T. -0.00 min
 Lab File: VU038128.D
 Acq: 12 May 2020 16:45

Instrument :
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Tgt Ion: 95 Resp: 25944
 Ion Ratio Lower Upper
 95 100
 97 63.8 44.9 83.3
 132 95.4 63.3 117.5
 130 90.5 65.7 122.1

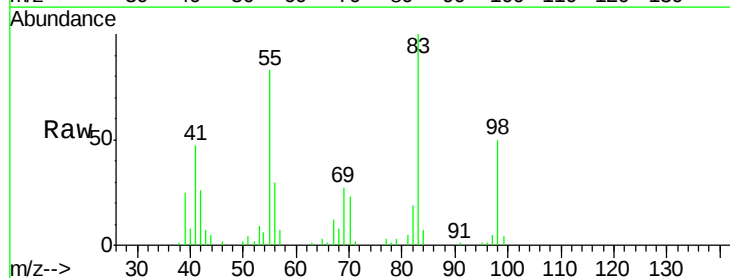


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

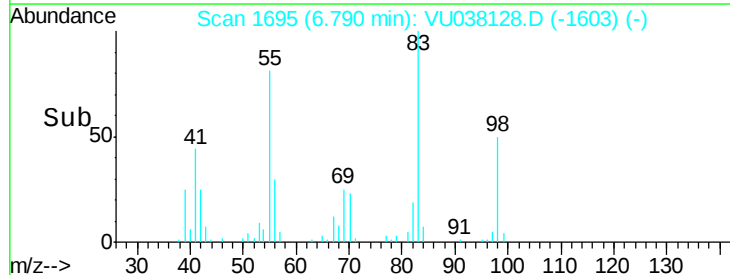
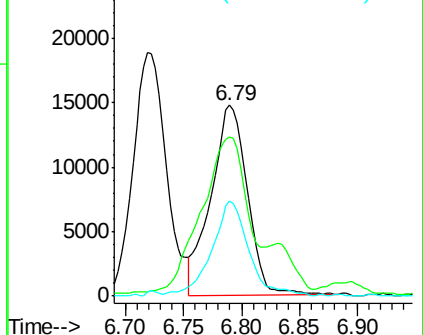


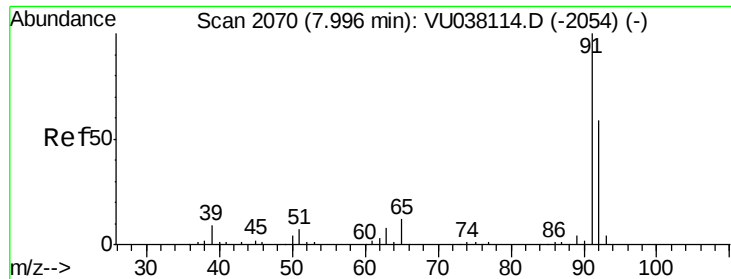
#35
 Methylcyclohexane
 Concen: 0.69 ug/L
 RT: 6.79 min Scan# 1695
 Delta R.T. -0.00 min
 Lab File: VU038128.D
 Acq: 12 May 2020 16:45

Tgt Ion: 83 Resp: 32102
 Ion Ratio Lower Upper
 83 100
 55 102.3 66.7 100.1#
 98 50.9 39.4 59.2



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





#42

Toluene

Concen: 0.94 ug/L

RT: 7.99 min Scan# 2069

Delta R.T. -0.00 min

Lab File: VU038128.D

Acq: 12 May 2020 16:45

Instrument :

MSVOA_U

ClientSampleId :

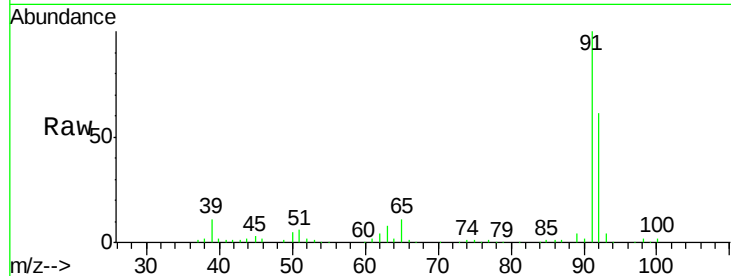
BFSP5

Tgt Ion: 91 Resp: 114701

Ion Ratio Lower Upper

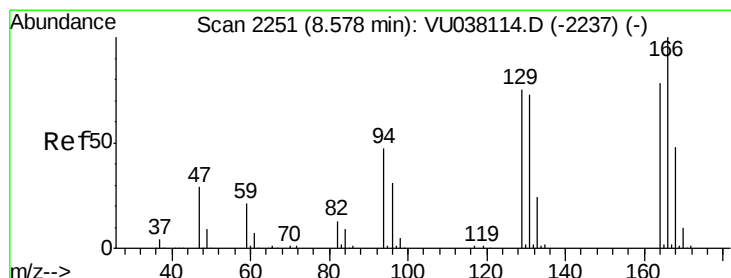
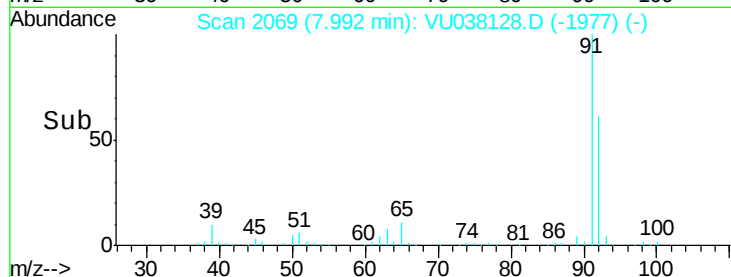
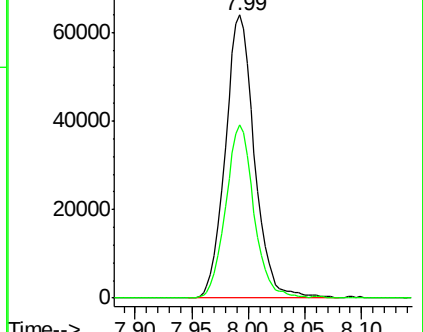
91 100

92 61.1 40.9 75.9



Abundance Ion 91.15 (90.85 to 91.85): VU038114.D (-2054) (-)

Ion 92.15 (91.85 to 92.85): VU038114.D (-2054) (-)



#47

Tetrachloroethene

Concen: 0.17 ug/L

RT: 8.57 min Scan# 2249

Delta R.T. -0.01 min

Lab File: VU038128.D

Acq: 12 May 2020 16:45

Tgt Ion: 164 Resp: 3484

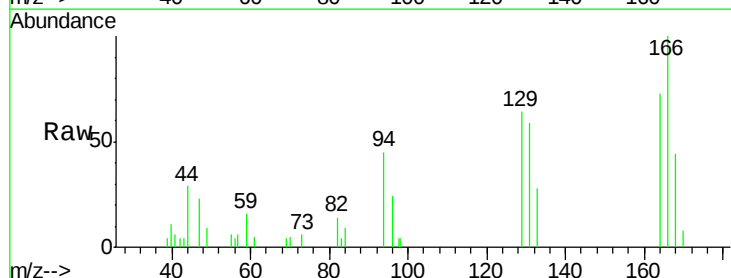
Ion Ratio Lower Upper

164 100

129 86.9 68.8 127.8

131 80.6 66.8 124.2

166 136.1 88.9 165.1

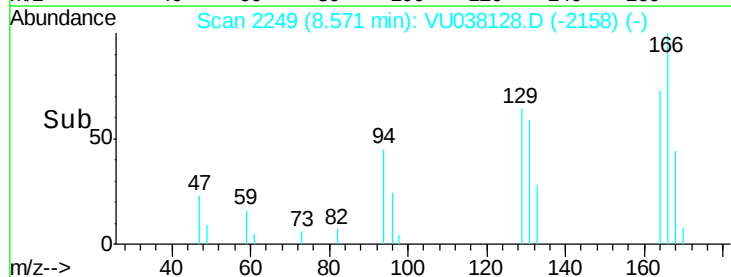
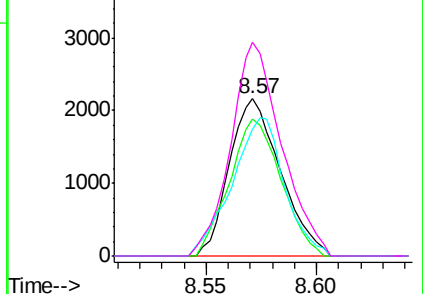


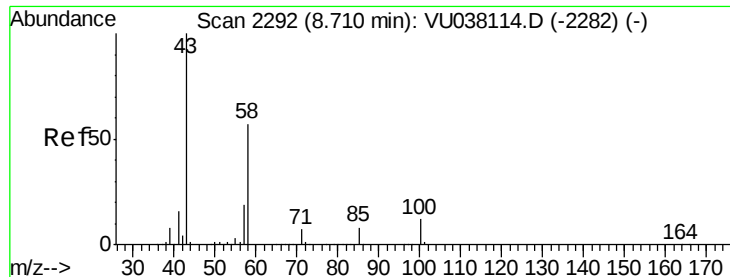
Abundance Ion 163.90 (163.60 to 164.60): VU038114.D (-2237) (-)

Ion 128.95 (128.65 to 129.65): VU038114.D (-2237) (-)

Ion 130.95 (130.65 to 131.65): VU038114.D (-2237) (-)

Ion 165.90 (165.60 to 166.60): VU038114.D (-2237) (-)

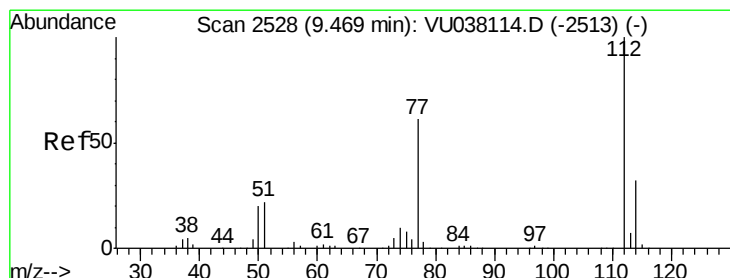
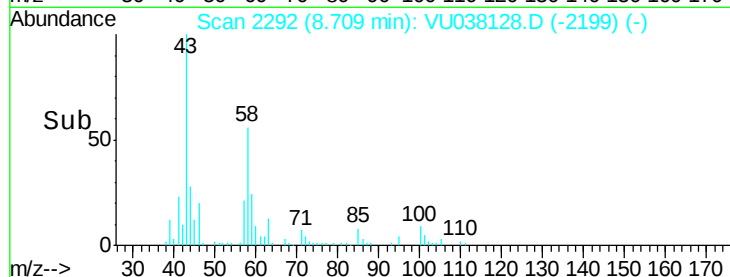
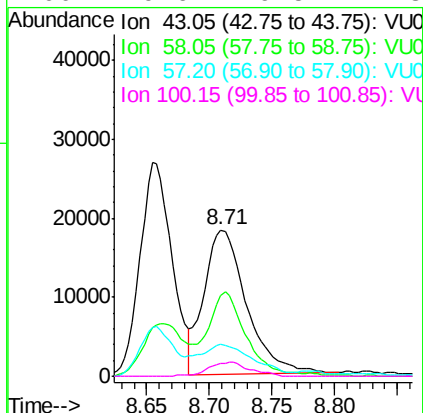
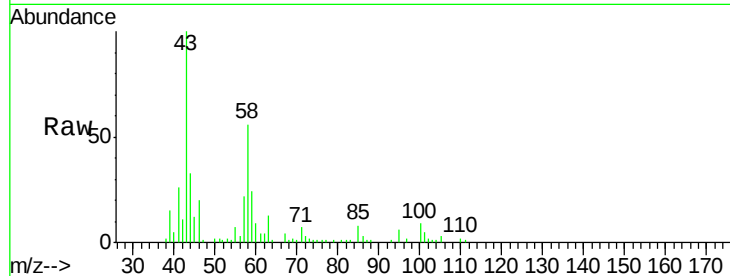




#48
2-Hexanone
Concen: 2.70 ug/L
RT: 8.71 min Scan# 2292
Delta R.T. -0.00 min
Lab File: VU038128.D
Acq: 12 May 2020 16:45

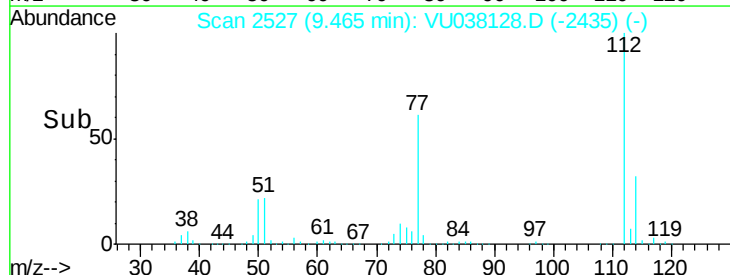
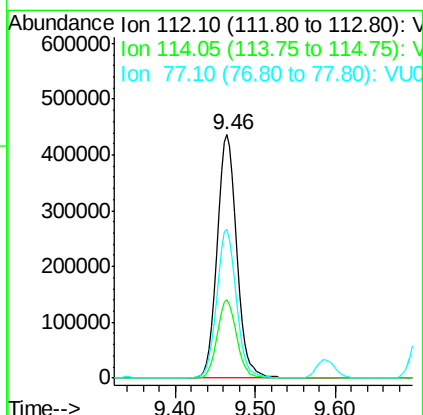
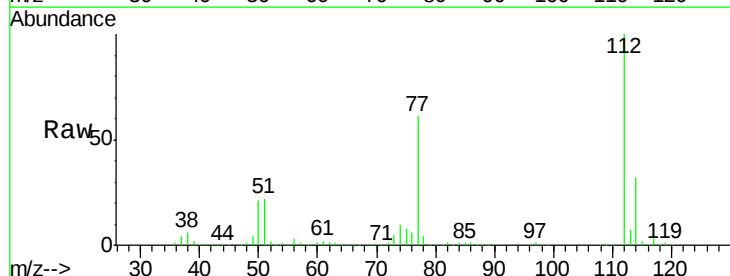
Instrument :
MSVOA_U
ClientSampleId :
BFSP5

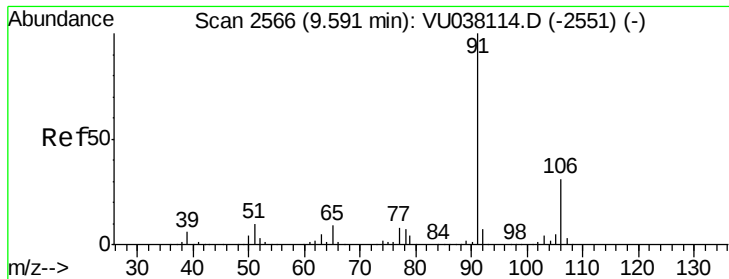
Tgt Ion:	43	Resp:	43086
Ion	Ratio	Lower	Upper
43	100		
58	49.3	45.2	67.8
57	24.3	15.5	23.3#
100	9.6	9.5	14.3



#51
Chlorobenzene
Concen: 9.84 ug/L
RT: 9.46 min Scan# 2527
Delta R.T. -0.00 min
Lab File: VU038128.D
Acq: 12 May 2020 16:45

Tgt Ion:	112	Resp:	744724
Ion	Ratio	Lower	Upper
112	100		
114	32.2	22.5	41.7
77	61.2	49.9	74.9

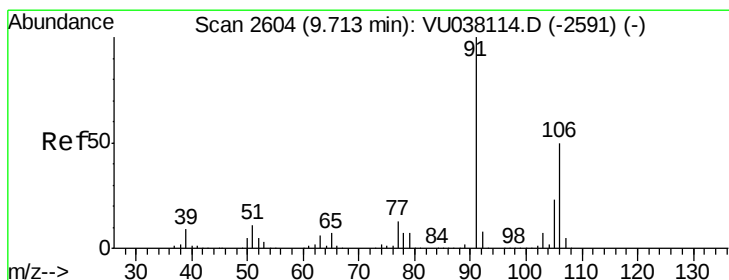
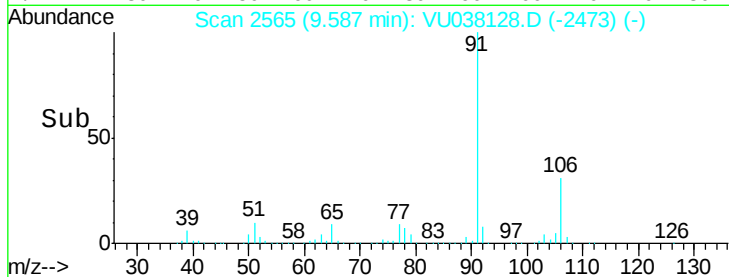
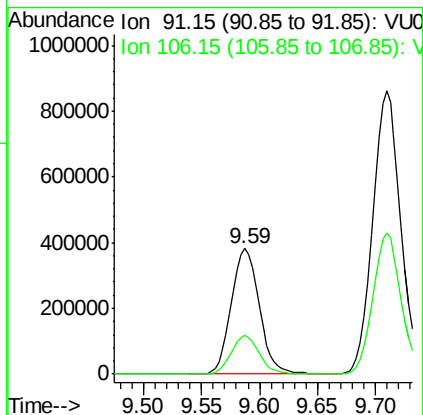
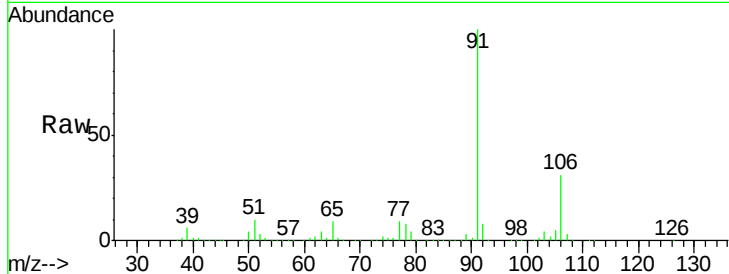




#52
Ethylbenzene
Concen: 4.85 ug/L
RT: 9.59 min Scan# 2565
Delta R.T. -0.00 min
Lab File: VU038128.D
Acq: 12 May 2020 16:45

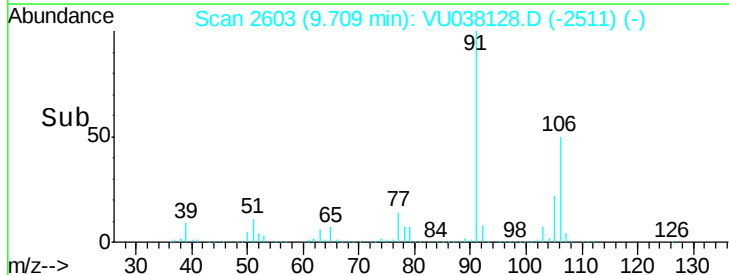
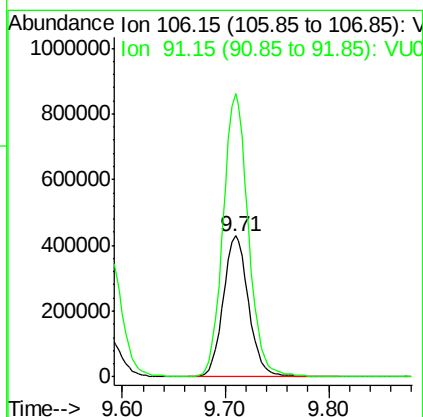
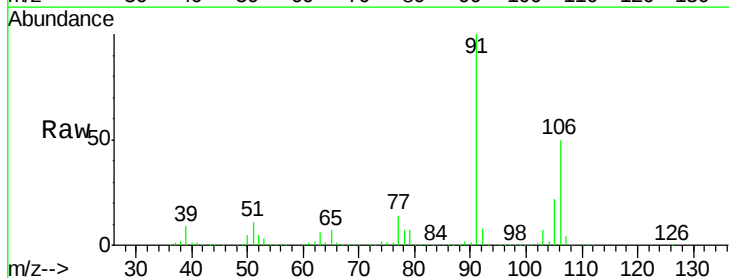
Instrument :
MSVOA_U
ClientSampleId :
BFSP5

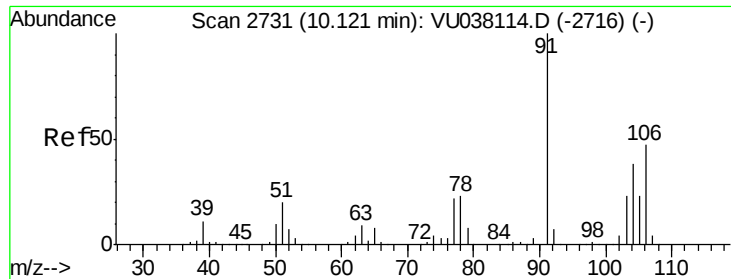
Tgt Ion: 91 Resp: 640317
Ion Ratio Lower Upper
91 100
106 30.7 21.8 40.4



#53
m,p-Xylene
Concen: 14.46 ug/L
RT: 9.71 min Scan# 2603
Delta R.T. -0.00 min
Lab File: VU038128.D
Acq: 12 May 2020 16:45

Tgt Ion: 106 Resp: 732993
Ion Ratio Lower Upper
106 100
91 200.9 142.1 263.9

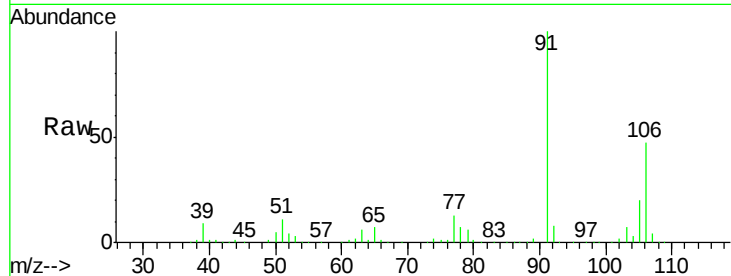




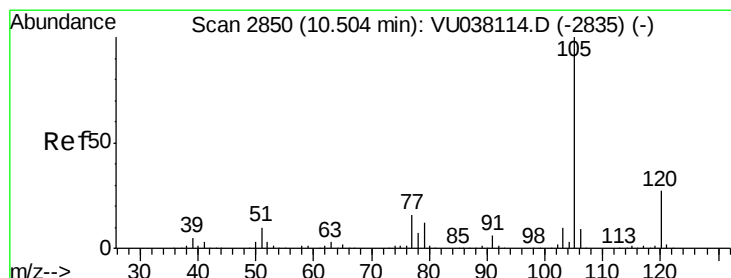
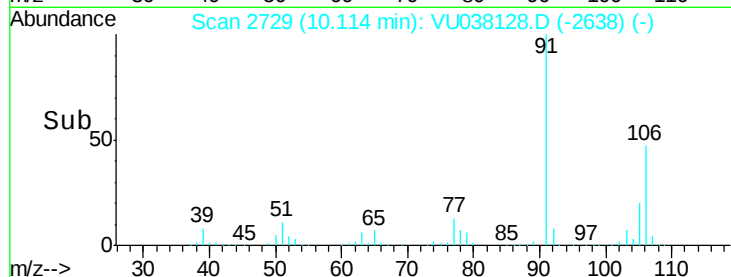
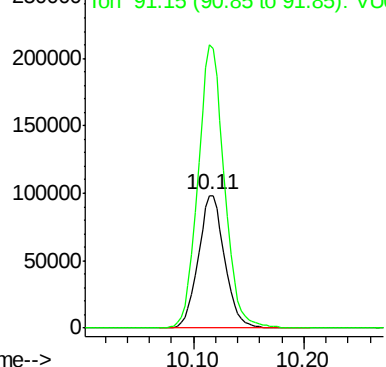
#54
o-Xylene
Concen: 3.33 ug/L
RT: 10.11 min Scan# 2729
Delta R.T. -0.01 min
Lab File: VU038128.D
Acq: 12 May 2020 16:45

Instrument :
MSVOA_U
ClientSampled :
BFSP5

Tgt Ion:106 Resp: 162925
Ion Ratio Lower Upper
106 100
91 213.2 148.5 275.9

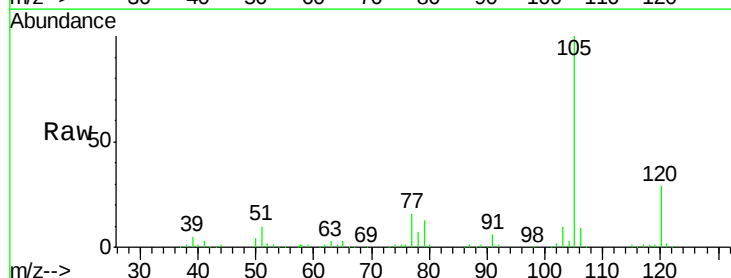


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

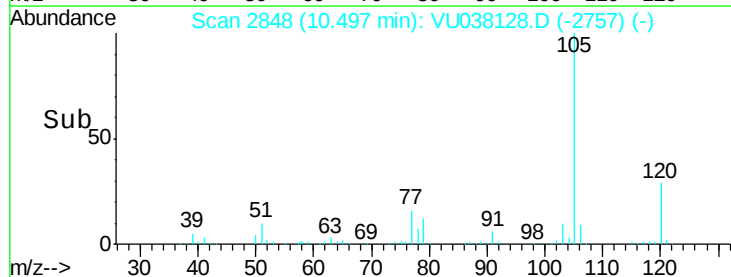
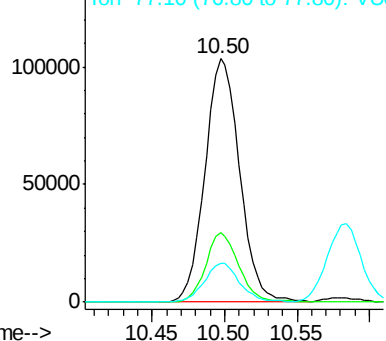


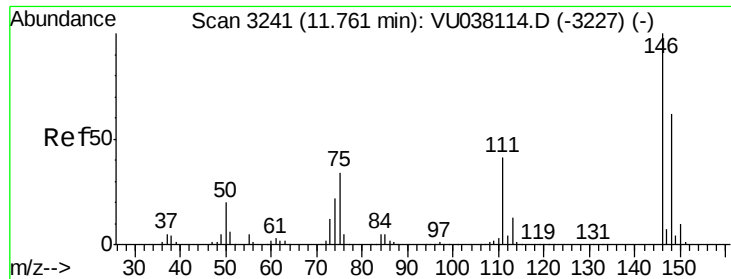
#56
Isopropylbenzene
Concen: 1.37 ug/L
RT: 10.50 min Scan# 2848
Delta R.T. -0.01 min
Lab File: VU038128.D
Acq: 12 May 2020 16:45

Tgt Ion:105 Resp: 171832
Ion Ratio Lower Upper
105 100
120 27.2 21.0 31.6
77 16.3 13.0 19.4



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): VU0

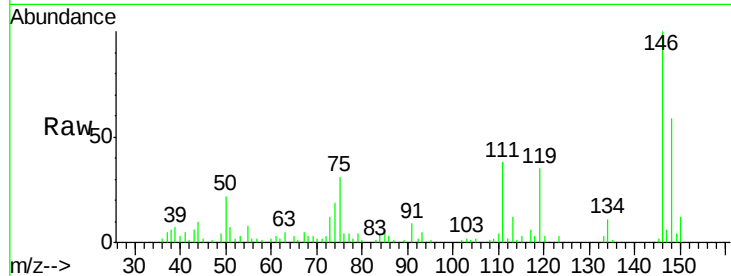




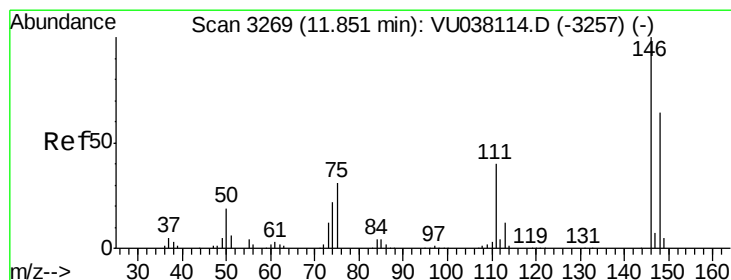
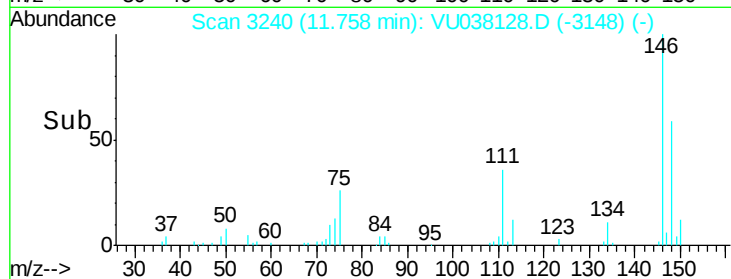
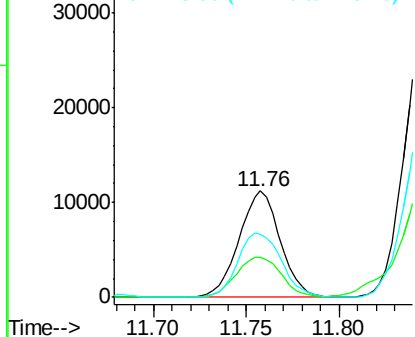
#62
 1,3-Dichlorobenzene
 Concen: 0.29 ug/L
 RT: 11.76 min Scan# 3240
 Delta R.T. -0.00 min
 Lab File: VU038128.D
 Acq: 12 May 2020 16:45

Instrument :
 MSVOA_U
 ClientSampleId :
 BFSP5

Tgt Ion:146 Resp: 17336
 Ion Ratio Lower Upper
 146 100
 111 37.7 28.6 53.2
 148 59.5 45.2 84.0

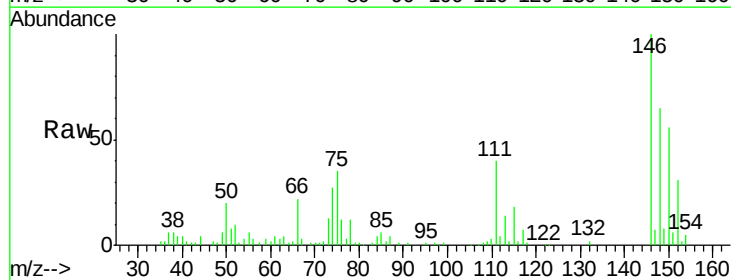


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

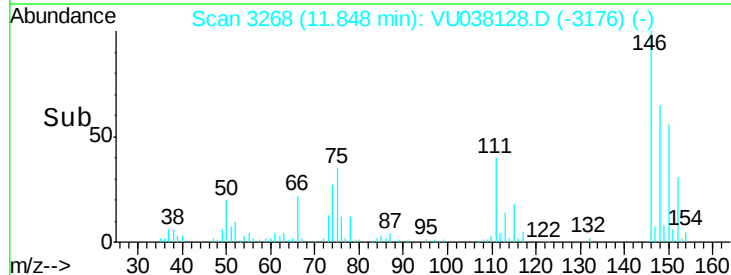
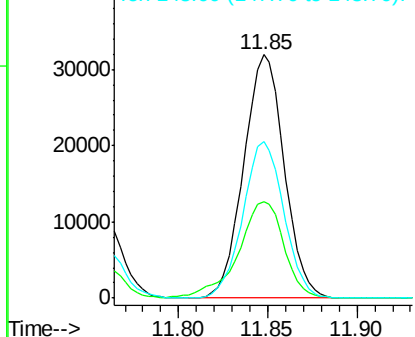


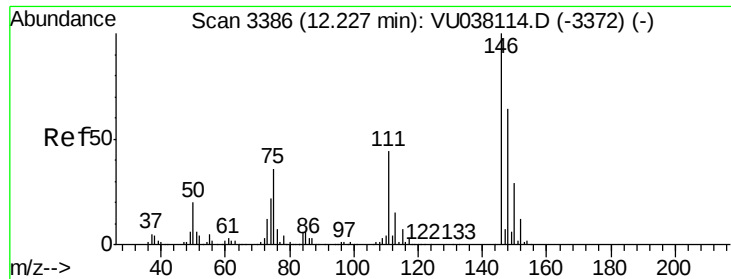
#63
 1,4-Dichlorobenzene
 Concen: 0.85 ug/L
 RT: 11.85 min Scan# 3268
 Delta R.T. -0.00 min
 Lab File: VU038128.D
 Acq: 12 May 2020 16:45

Tgt Ion:146 Resp: 50600
 Ion Ratio Lower Upper
 146 100
 111 39.6 27.2 50.6
 148 64.5 43.8 81.3



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

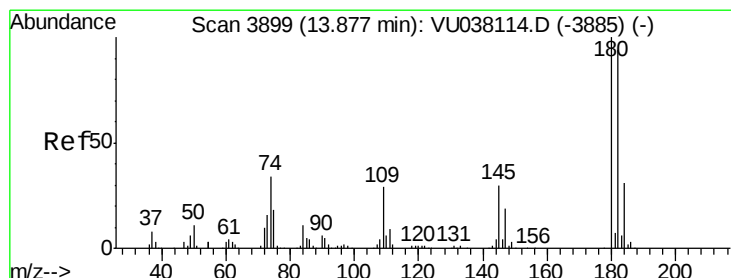
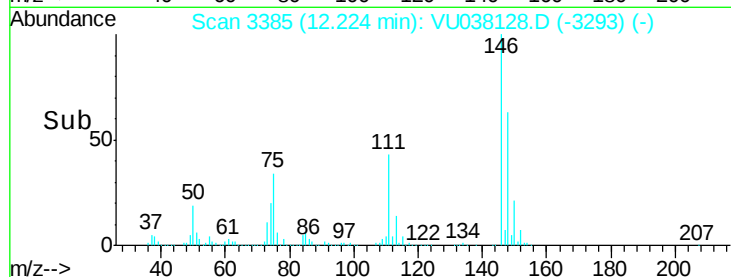
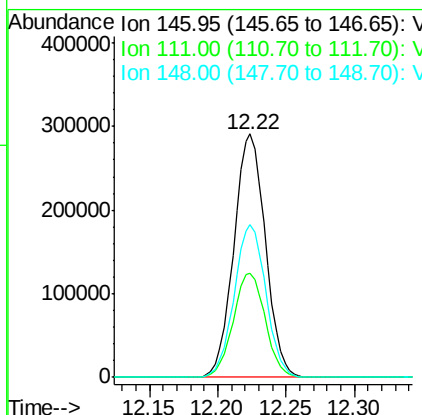
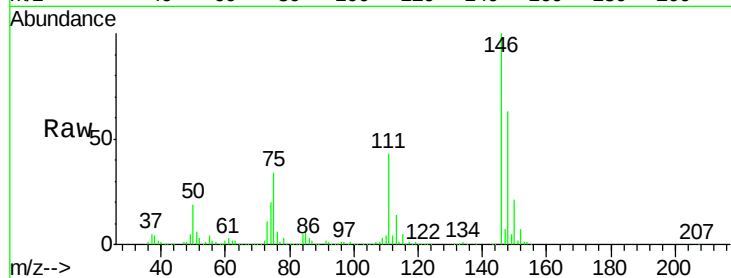




#65
 1,2-Dichlorobenzene
 Concen: 8.20 ug/L
 RT: 12.22 min Scan# 3385
 Delta R.T. -0.00 min
 Lab File: VU038128.D
 Acq: 12 May 2020 16:45

Instrument :
 MSVOA_U
 ClientSampleId :
 BFSP5

Tgt Ion:146 Resp: 466209
 Ion Ratio Lower Upper
 146 100
 111 42.8 35.3 52.9
 148 62.5 51.0 76.4



#68
 1,2,4-trichlorobenzene
 Concen: 0.28 ug/L
 RT: 13.87 min Scan# 3896
 Delta R.T. -0.01 min
 Lab File: VU038128.D
 Acq: 12 May 2020 16:45

Tgt Ion:180 Resp: 11053
 Ion Ratio Lower Upper
 180 100
 182 100.5 75.0 112.6
 145 47.8 24.8 37.2#

