

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU060520\
 Data File : VU038591.D
 Acq On : 06 Jun 2020 01:00
 Operator : SY/MD
 Sample : L2884-04
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BFXD8

Quant Time: Jun 06 02:57:50 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR053120WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Jun 06 02:36:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.32	114	295187	5.00	ug/L	0.05
28) Chlorobenzene-d5	9.45	117	287612	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	154990	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.66	65	57354	3.00	ug/L	0.05
Spiked Amount	5.000	Range	40 - 130	Recovery	=	60.00%
7) Chloroethane-d5	1.98	69	51402	3.50	ug/L	0.05
Spiked Amount	5.000	Range	65 - 130	Recovery	=	70.00%
11) 1,1-Dichloroethene-d2	2.64	63	89993	2.39	ug/L	0.04
Spiked Amount	5.000	Range	60 - 125	Recovery	=	47.80%#
20) 2-Butanone-d5	4.81	46	333022	57.38	ug/L	0.13
Spiked Amount	50.000	Range	40 - 130	Recovery	=	114.76%
24) Chloroform-d	5.17	84	163271	4.55	ug/L	0.07
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.00%
26) 1,2-Dichloroethane-d4	5.80	65	97367	4.78	ug/L	0.06
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.60%
32) Benzene-d6	5.82	84	317742	4.43	ug/L	0.05
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.60%
36) 1,2-Dichloropropane-d6	6.76	67	102645	4.65	ug/L	0.04
Spiked Amount	5.000	Range	60 - 140	Recovery	=	93.00%
41) Toluene-d8	7.94	98	266449	4.14	ug/L	0.02
Spiked Amount	5.000	Range	70 - 130	Recovery	=	82.80%
43) trans-1,3-Dichloropropene-	8.22	79	39467	4.16	ug/L	0.02
Spiked Amount	5.000	Range	55 - 130	Recovery	=	83.20%
46) 2-Hexanone-d5	8.68	63	264037	56.31	ug/L	0.02
Spiked Amount	50.000	Range	45 - 130	Recovery	=	112.62%
57) 1,1,2,2-Tetrachloroethane-	10.78	84	96684	5.16	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	103.20%
64) 1,2-Dichlorobenzene-d4	12.21	152	124161	4.64	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	92.80%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.67	62	28290	1.236	ug/L	92
10) 1,1,2-Trichloro-1,2,2-trif	2.64	101	3887	0.217	ug/L	90
18) trans-1,2-Dichloroethene	3.43	96	2114	0.108	ug/L	92
19) 1,1-Dichloroethane	3.96	63	64734	1.846	ug/L	97
22) cis-1,2-Dichloroethene	4.77	96	107822	5.111	ug/L	100
27) 1,2-Dichloroethane	5.89	62	32370	1.291	ug/L	95
29) 1,1,1-Trichloroethane	5.42	97	6082	0.200	ug/L	98
30) Cyclohexane	5.48	56	94127	2.949	ug/L	95
33) Benzene	5.86	78	639868	7.978	ug/L	100
34) Trichloroethene	6.61	95	26370	1.267	ug/L	95
35) Methylcyclohexane	6.83	83	60771	1.886	ug/L #	83
42) Toluene	8.02	91	819026	9.736	ug/L	98
47) Tetrachloroethene	8.59	164	3979	0.263	ug/L	92
48) 2-Hexanone	8.73	43	24109	2.206	ug/L #	91
51) Chlorobenzene	9.47	112	413311	7.619	ug/L	99
52) Ethylbenzene	9.60	91	1924124	20.559	ug/L	100
53) m,p-Xylene	9.72	106	3760992	104.489	ug/L	96

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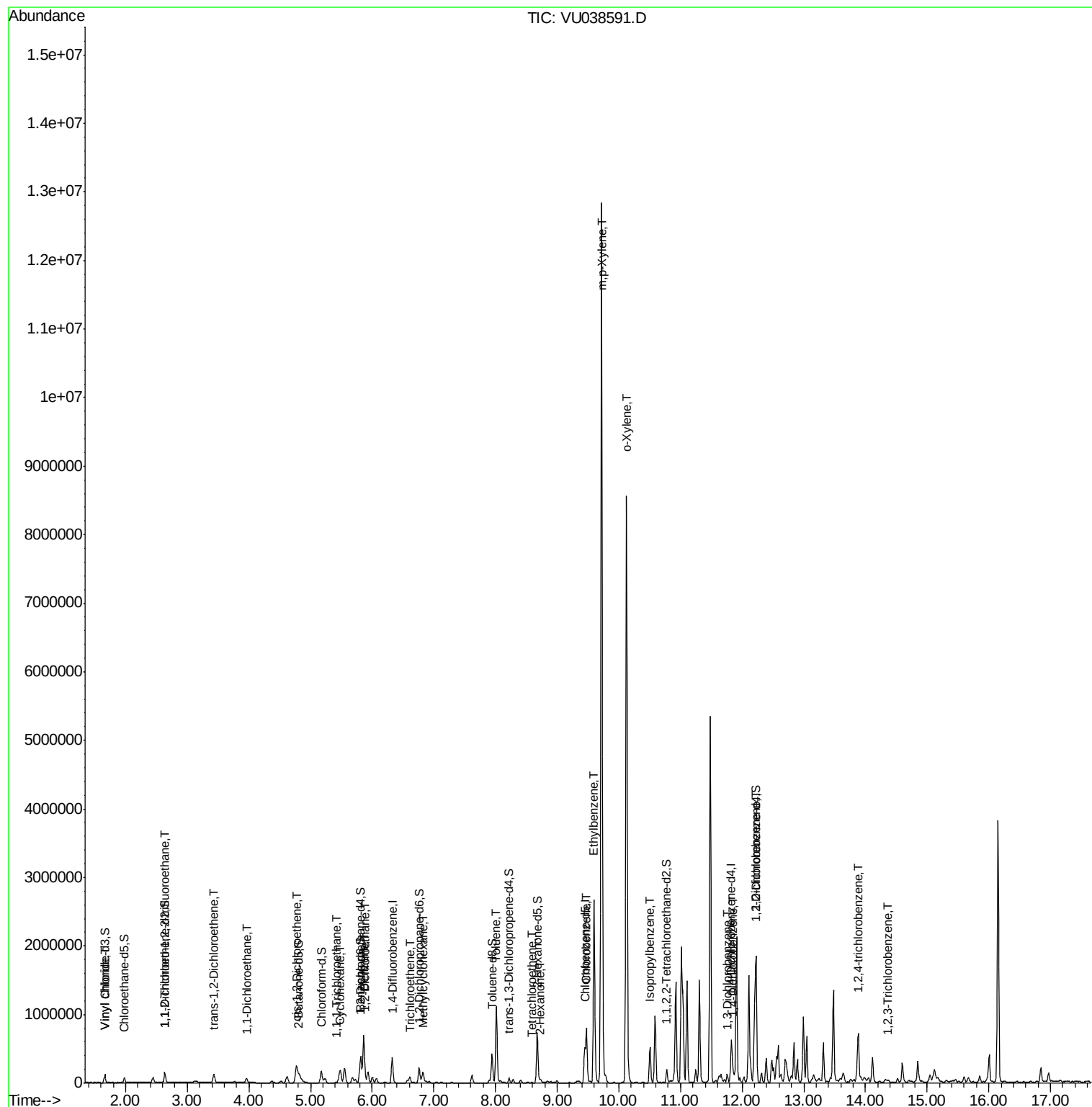
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-Xylene	10.12	106	2333148	67.524	ug/L	100
56) Isopropylbenzene	10.50	105	358786	3.945	ug/L	99
62) 1,3-Dichlorobenzene	11.76	146	20162	0.443	ug/L	94
63) 1,4-Dichlorobenzene	11.85	146	57014	1.235	ug/L	98
65) 1,2-Dichlorobenzene	12.22	146	659920	15.261	ug/L	98
68) 1,2,4-trichlorobenzene	13.87	180	17304	0.550	ug/L #	92
70) 1,2,3-Trichlorobenzene	14.36	180	6201	0.217	ug/L #	81

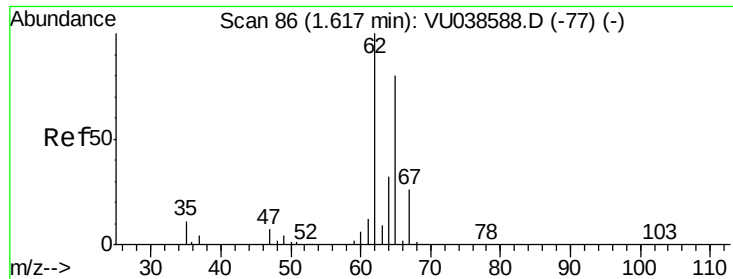
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 1.236 ug/L

RT: 1.67 min Scan# 102

Delta R.T. 0.05 min

Lab File: VU038591.D

Acq: 06 Jun 2020 01:00

Instrument :

MSVOA_U

ClientSampleId :

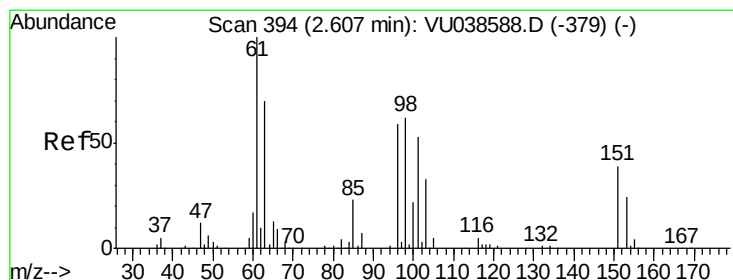
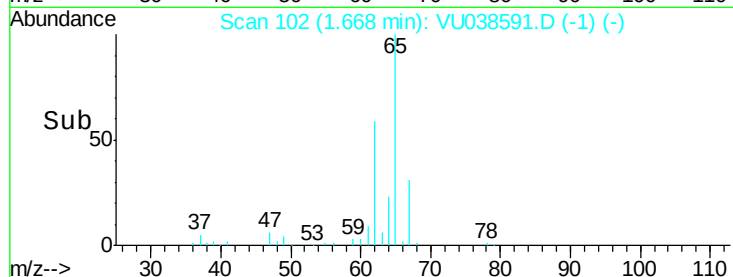
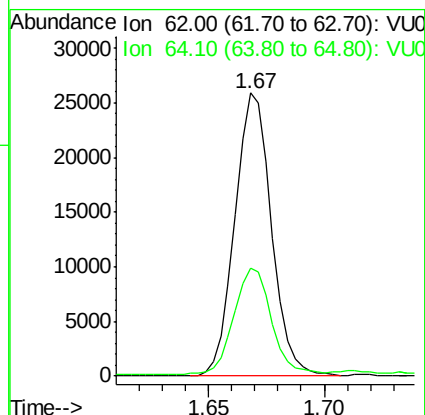
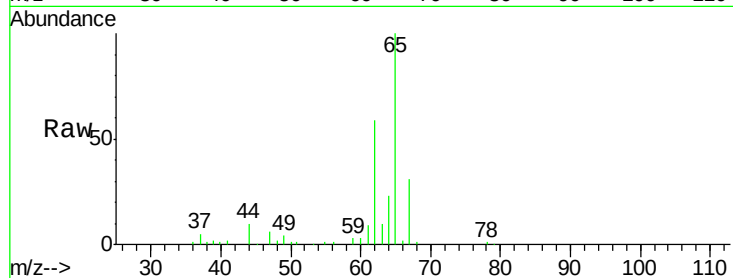
BFXD8

Tot Ion: 62 Resp: 28290

Ion Ratio Lower Upper

62 100

64 38.1 23.7 43.9



#10

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

Concen: 0.217 ug/L

RT: 2.64 min Scan# 405

Delta R.T. 0.04 min

Lab File: VU038591.D

Acq: 06 Jun 2020 01:00

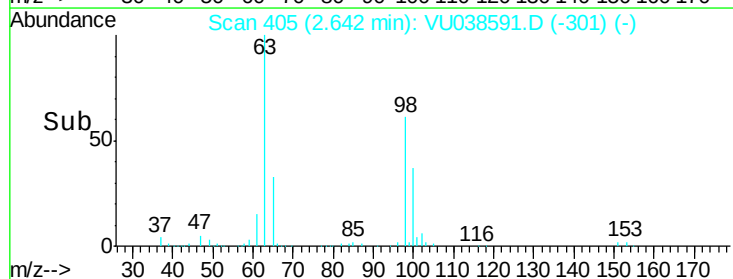
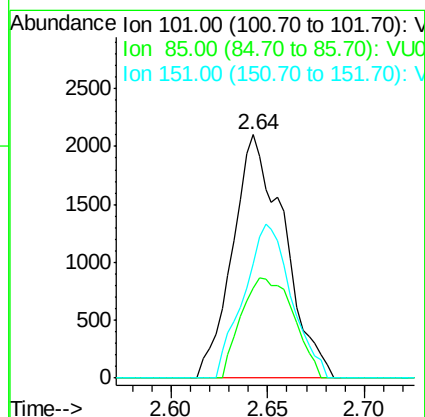
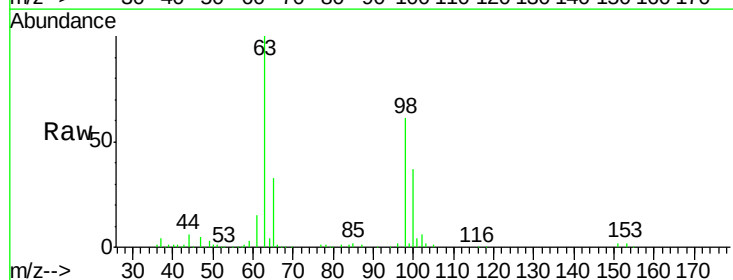
Tgt Ion: 101 Resp: 3887

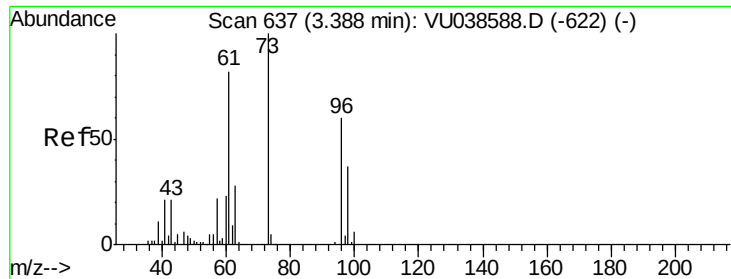
Ion Ratio Lower Upper

101 100

85 41.7 34.0 51.0

151 58.4 56.9 85.3





#18

trans-1,2-Dichloroethene

Concen: 0.108 ug/L

RT: 3.43 min Scan# 650

Delta R.T. 0.04 min

Lab File: VU038591.D

Acq: 06 Jun 2020 01:00

Instrument :

MSVOA_U

ClientSampleId :

BFXD8

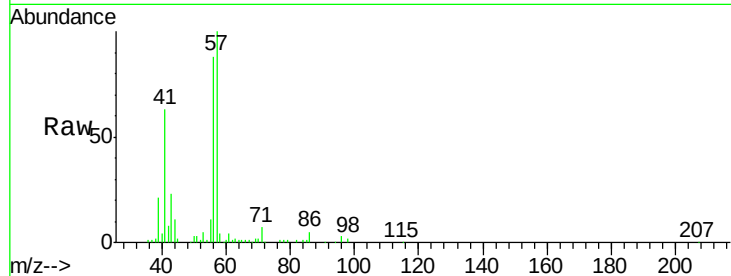
Tot Ion: 96 Resp: 2114

Ion Ratio Lower Upper

96 100

61 135.3 100.2 186.0

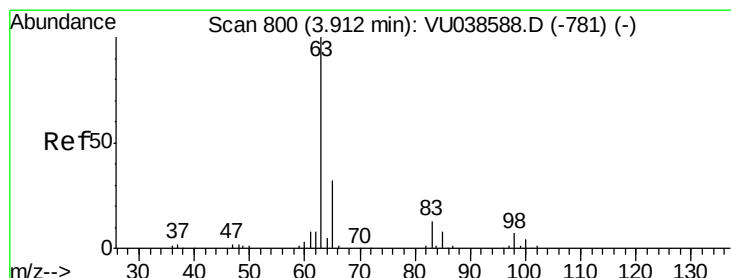
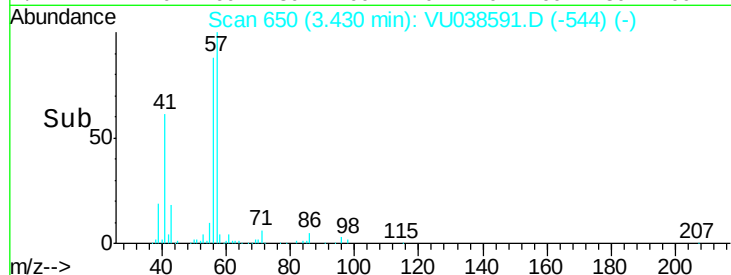
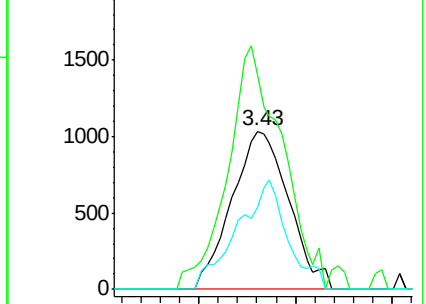
98 52.2 42.8 79.4



Abundance Ion 96.00 (95.70 to 96.70): VU038591.D (-544) (-)

Ion 61.05 (60.75 to 61.75): VU038591.D (-544) (-)

Ion 97.95 (97.65 to 98.65): VU038591.D (-544) (-)



#19

1,1-Dichloroethane

Concen: 1.846 ug/L

RT: 3.96 min Scan# 815

Delta R.T. 0.05 min

Lab File: VU038591.D

Acq: 06 Jun 2020 01:00

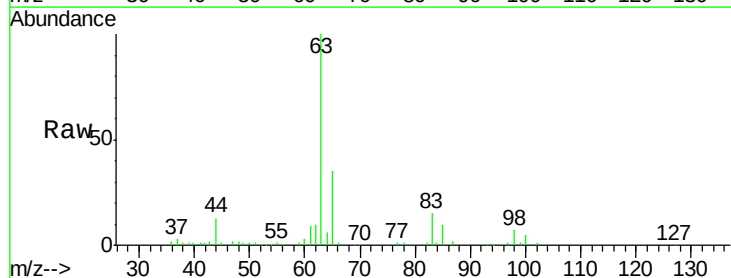
Tgt Ion: 63 Resp: 64734

Ion Ratio Lower Upper

63 100

65 34.6 22.3 41.5

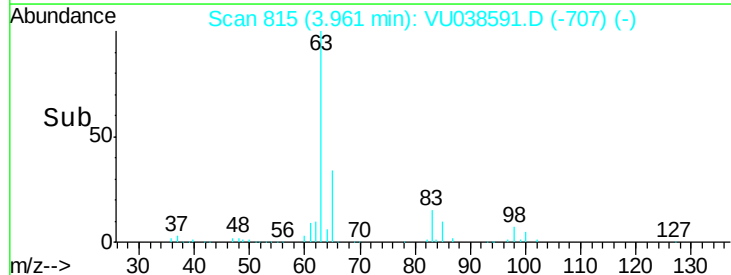
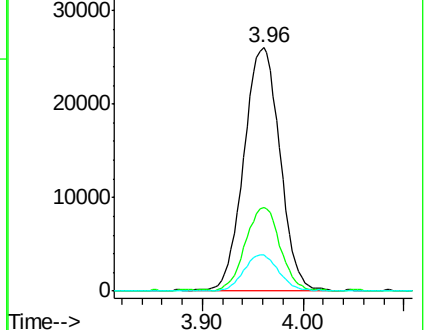
83 14.7 10.4 19.4

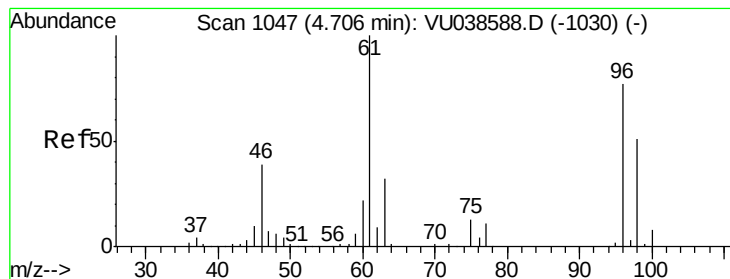


Abundance Ion 63.10 (62.80 to 63.80): VU038591.D (-707) (-)

Ion 65.10 (64.80 to 65.80): VU038591.D (-707) (-)

Ion 83.05 (82.75 to 83.75): VU038591.D (-707) (-)





#22

cis-1,2-Dichloroethene

Concen: 5.111 ug/L

RT: 4.77 min Scan# 1067

Delta R.T. 0.06 min

Lab File: VU038591.D

Acq: 06 Jun 2020 01:00

Instrument :

MSVOA_U

ClientSampleId :

BFXD8

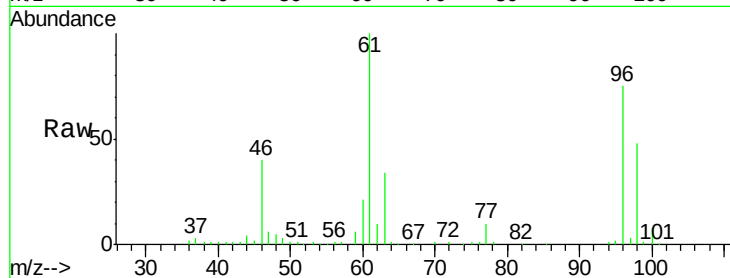
Tot Ion: 96 Resp: 107822

Ion Ratio Lower Upper

96 100

61 133.9 94.0 174.6

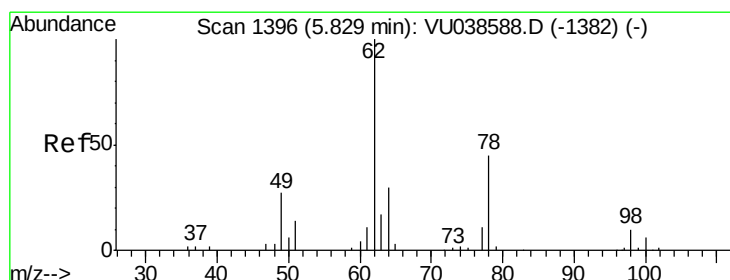
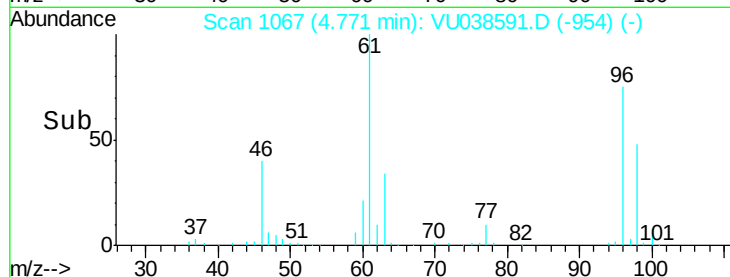
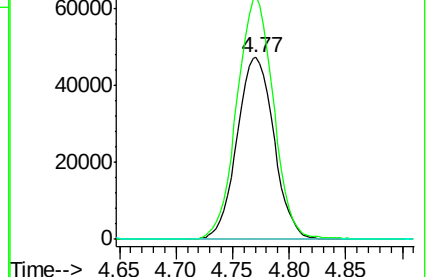
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU038588.D (-1030) (-)

Ion 61.05 (60.75 to 61.75): VU038588.D (-1030) (-)

Ion 68.15 (67.85 to 68.85): VU038588.D (-1030) (-)



#27

1,2-Dichloroethane

Concen: 1.291 ug/L

RT: 5.89 min Scan# 1414

Delta R.T. 0.06 min

Lab File: VU038591.D

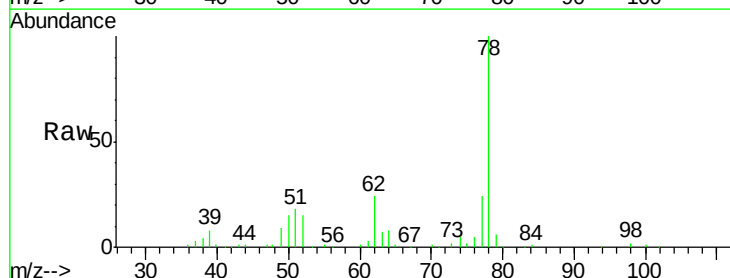
Acq: 06 Jun 2020 01:00

Tgt Ion: 62 Resp: 32370

Ion Ratio Lower Upper

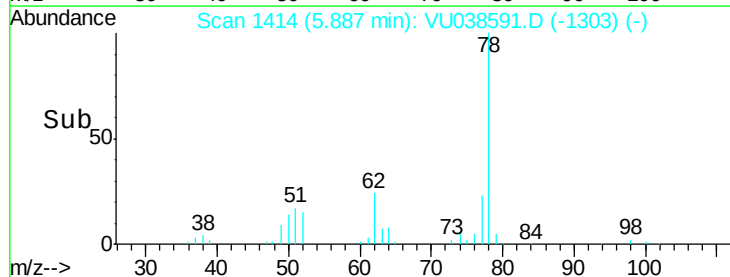
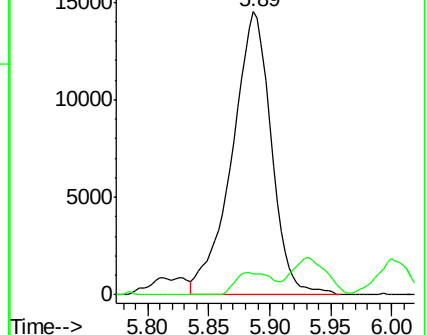
62 100

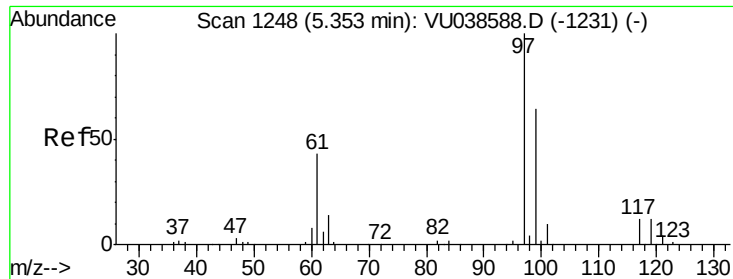
98 7.6 7.4 11.2



Abundance Ion 62.00 (61.70 to 62.70): VU038588.D (-1382) (-)

Ion 98.05 (97.75 to 98.75): VU038588.D (-1382) (-)

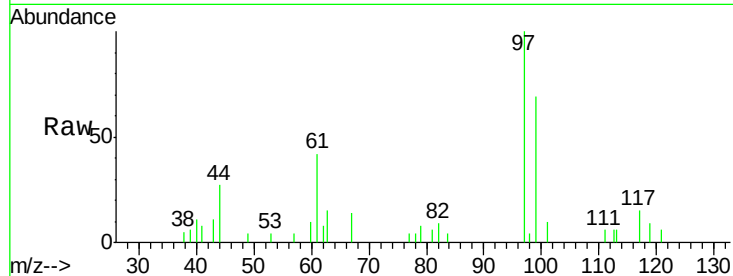




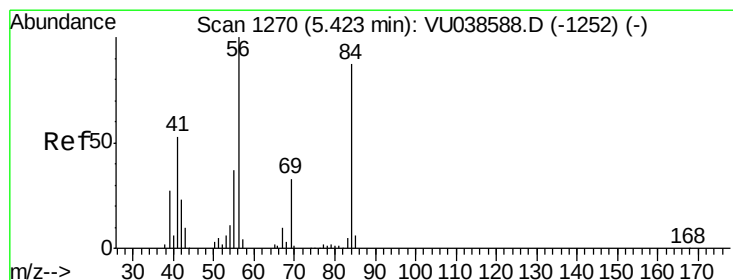
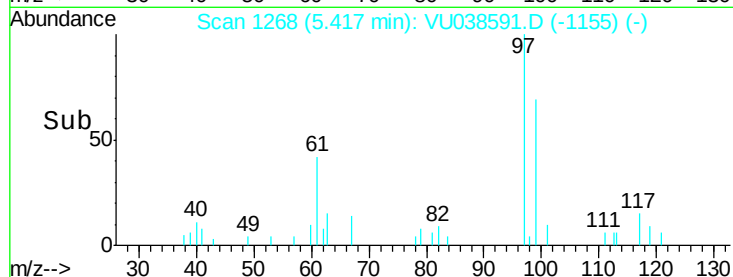
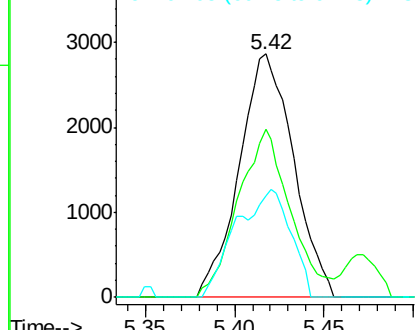
#29
1,1,1-Trichloroethane
Concen: 0.200 ug/L
RT: 5.42 min Scan# 1268
Delta R.T. 0.06 min
Lab File: VU038591.D
Acq: 06 Jun 2020 01:00

Instrument :
MSVOA_U
ClientSampleId :
BFXD8

Tot Ion: 97 Resp: 6082
Ion Ratio Lower Upper
97 100
99 67.0 52.2 78.2
61 44.8 35.4 53.2

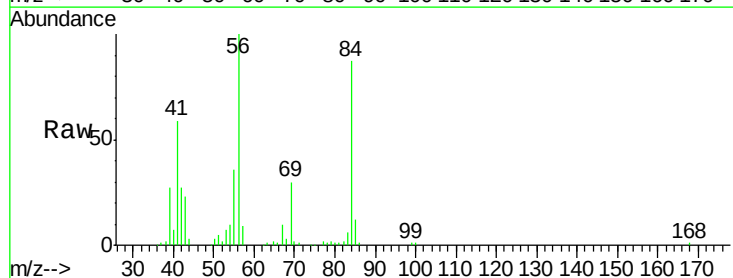


Abundance Ion 96.95 (96.65 to 97.65): VU0
Ion 99.05 (98.75 to 99.75): VU0
Ion 61.05 (60.75 to 61.75): VU0

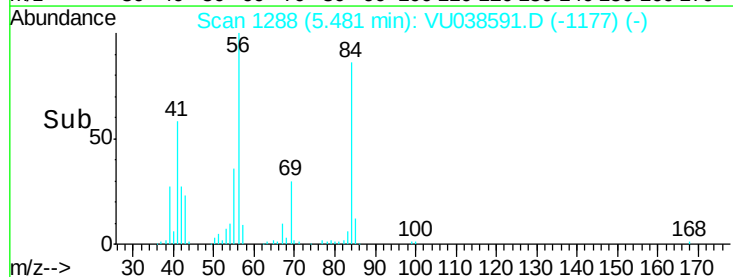
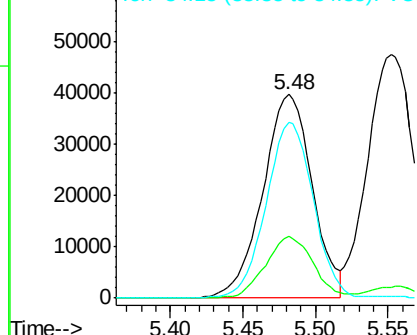


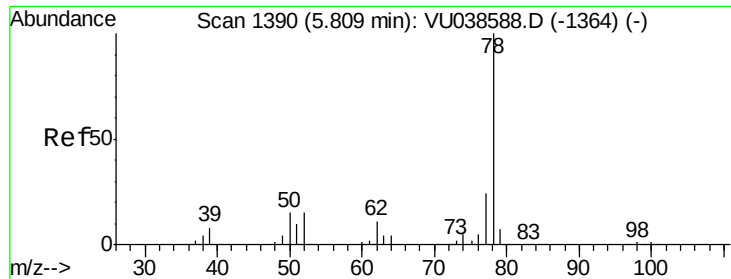
#30
Cyclohexane
Concen: 2.949 ug/L
RT: 5.48 min Scan# 1288
Delta R.T. 0.06 min
Lab File: VU038591.D
Acq: 06 Jun 2020 01:00

Tgt Ion: 56 Resp: 94127
Ion Ratio Lower Upper
56 100
69 29.3 24.2 36.4
84 82.2 70.8 106.2



Abundance Ion 56.10 (55.80 to 56.80): VU0
Ion 69.15 (68.85 to 69.85): VU0
Ion 84.15 (83.85 to 84.85): VU0





#33

Benzene

Concen: 7.978 ug/L

RT: 5.86 min Scan# 1407

Delta R.T. 0.05 min

Lab File: VU038591.D

Acq: 06 Jun 2020 01:00

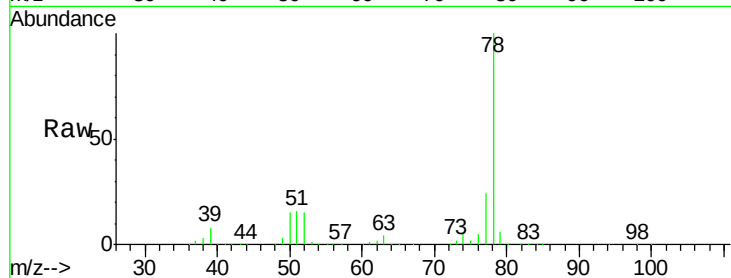
Instrument :

MSVOA_U

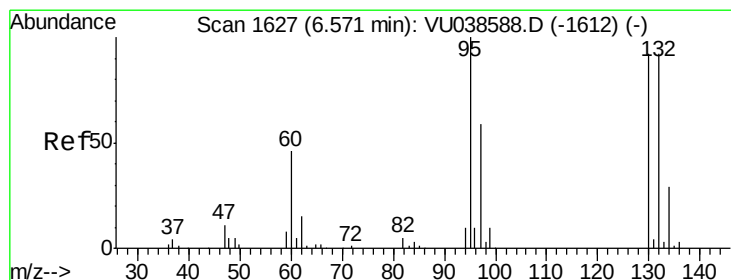
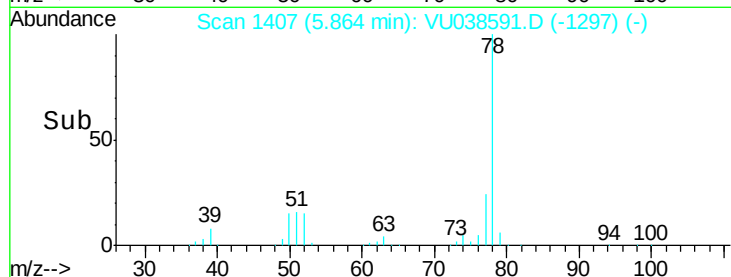
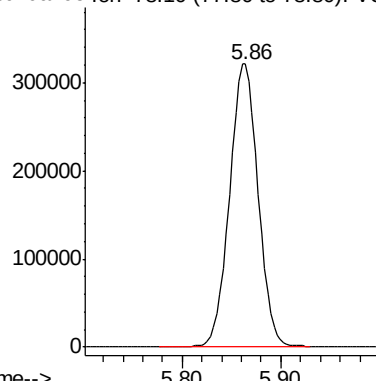
ClientSampleId :

BFXD8

Tgt Ion: 78 Resp: 639868



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34

Trichloroethene

Concen: 1.267 ug/L

RT: 6.61 min Scan# 1639

Delta R.T. 0.04 min

Lab File: VU038591.D

Acq: 06 Jun 2020 01:00

Tgt Ion: 95 Resp: 26370

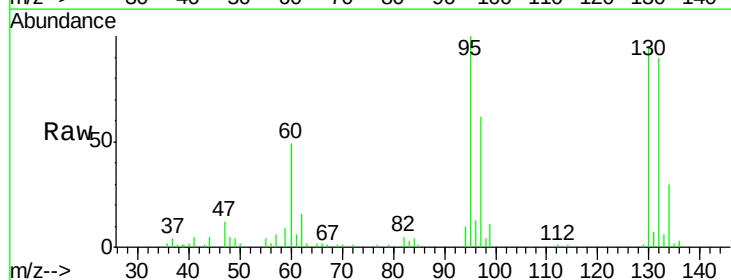
Ion	Ratio	Lower	Upper
95	100		
97	61.7	46.8	87.0
132	90.1	66.1	122.7
130	95.2	70.0	130.0

95 100

97 61.7 46.8 87.0

132 90.1 66.1 122.7

130 95.2 70.0 130.0

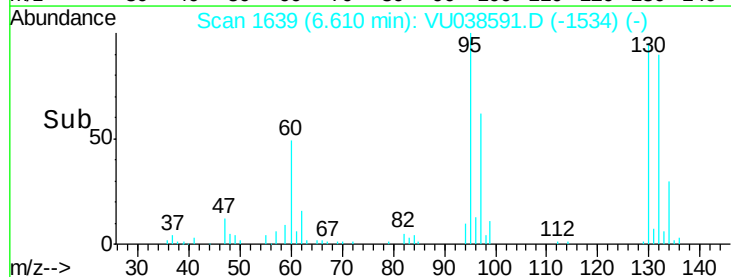
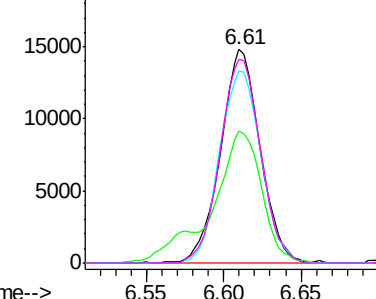


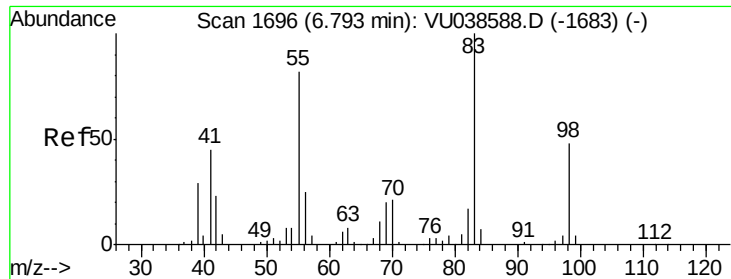
Abundance Ion 95.00 (94.70 to 95.70): VU0

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

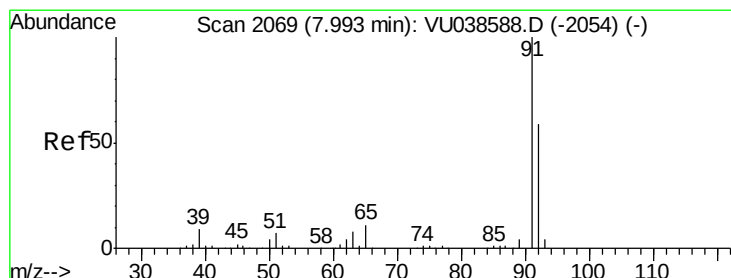
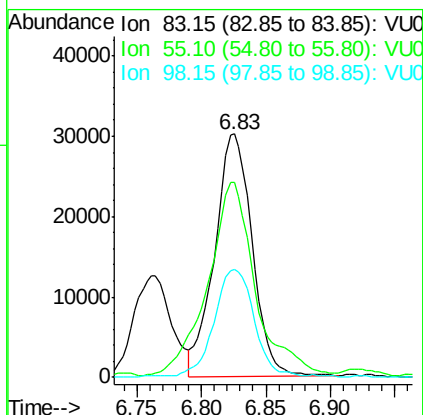
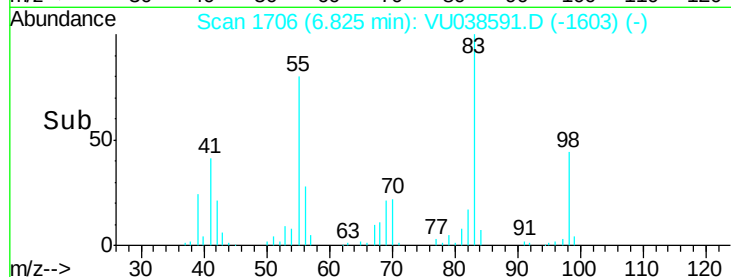
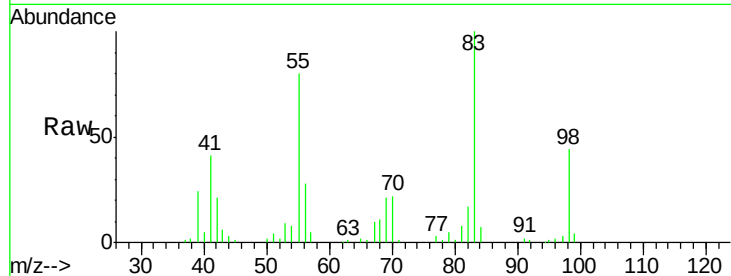




#35
Methylvlcyclohexane
Concen: 1.886 ug/L
RT: 6.83 min Scan# 1706
Delta R.T. 0.03 min
Lab File: VU038591.D
Acq: 06 Jun 2020 01:00

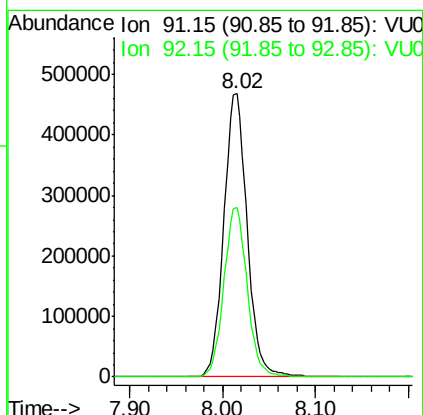
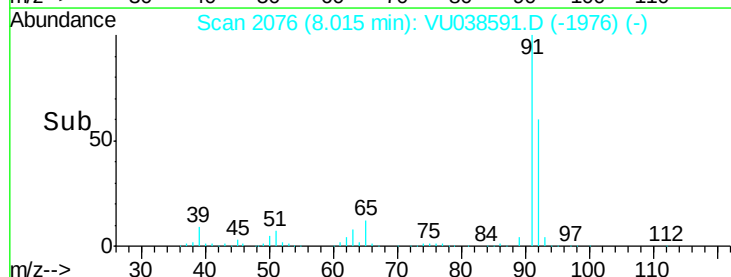
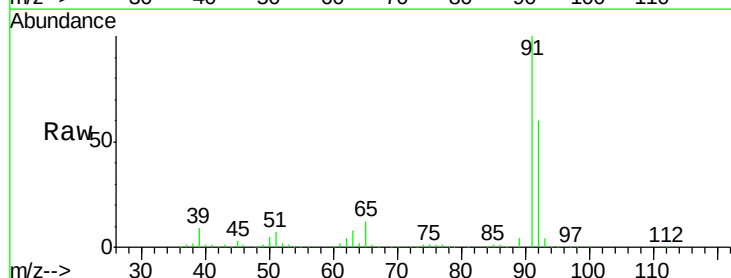
Instrument :
MSVOA_U
ClientSampleId :
BFXD8

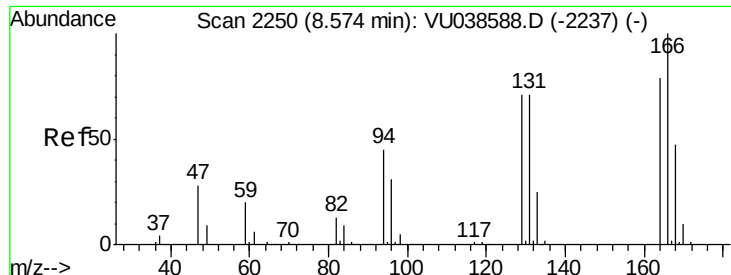
Tot Ion: 83 Resp: 60771
Ion Ratio Lower Upper
83 100
55 100.9 63.4 95.2#
98 45.7 39.0 58.4



#42
Toluene
Concen: 9.736 ug/L
RT: 8.02 min Scan# 2076
Delta R.T. 0.02 min
Lab File: VU038591.D
Acq: 06 Jun 2020 01:00

Tgt Ion: 91 Resp: 819026
Ion Ratio Lower Upper
91 100
92 59.7 43.0 79.8





#47

Tetrachloroethene

Concen: 0.263 ug/L

RT: 8.59 min Scan# 2255

Delta R.T. 0.02 min

Lab File: VU038591.D

Acq: 06 Jun 2020 01:00

Instrument :

MSVOA_U

ClientSampleId :

BFXD8

Tot Ion:164 Resp: 3979

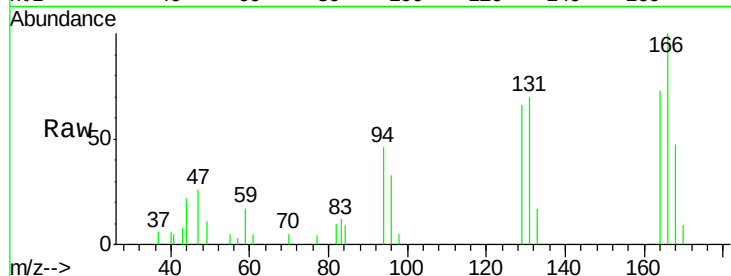
Ion Ratio Lower Upper

164 100

129 91.1 67.4 125.2

131 96.3 64.1 119.1

166 137.5 85.7 159.1

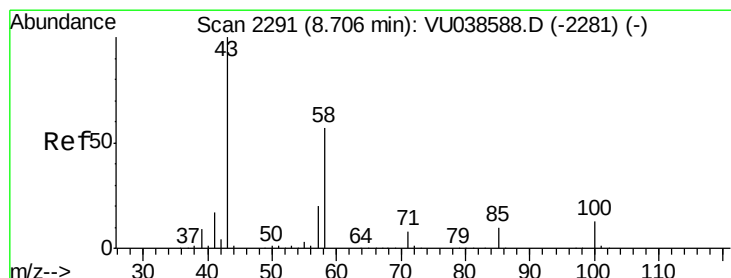
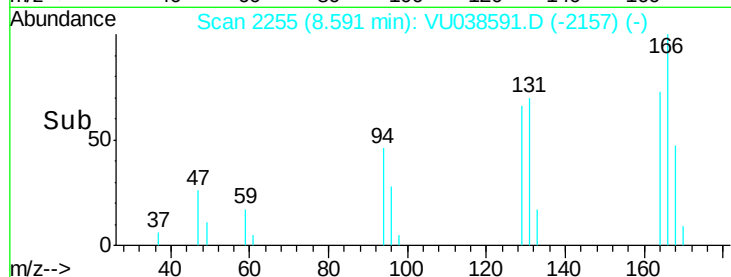
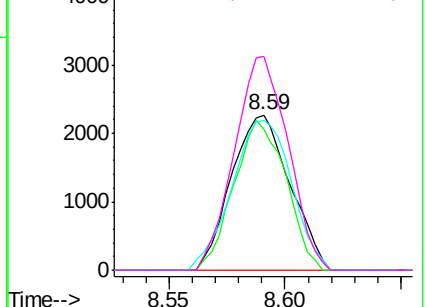


Abundance Ion 163.90 (163.60 to 164.60): V

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: 2.206 ug/L

RT: 8.73 min Scan# 2297

Delta R.T. 0.02 min

Lab File: VU038591.D

Acq: 06 Jun 2020 01:00

Tgt Ion: 43 Resp: 24109

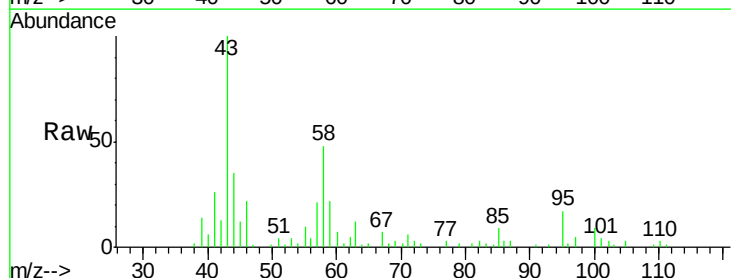
Ion Ratio Lower Upper

43 100

58 56.4 45.4 68.0

57 3.8 15.9 23.9#

100 10.6 10.5 15.7

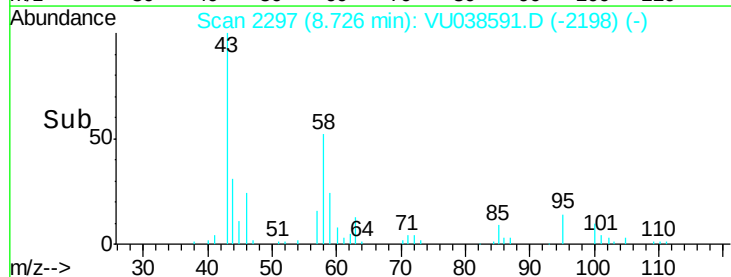
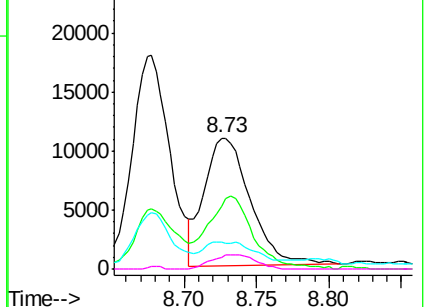


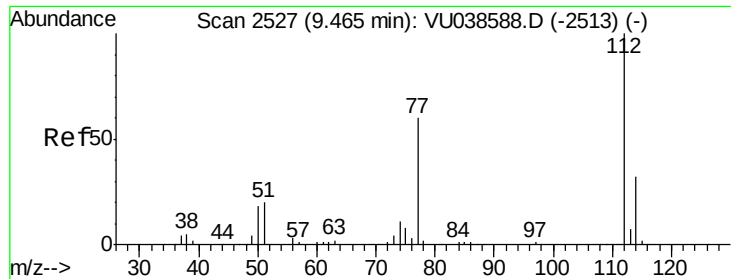
Abundance Ion 43.05 (42.75 to 43.75): VU0

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

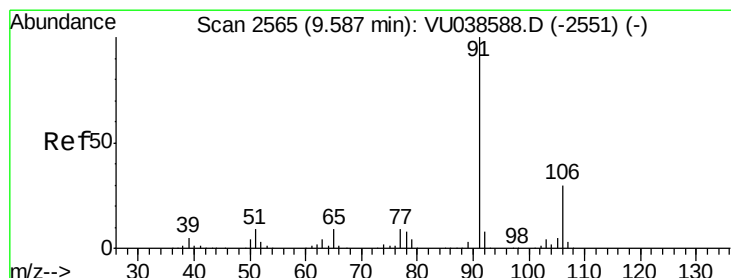
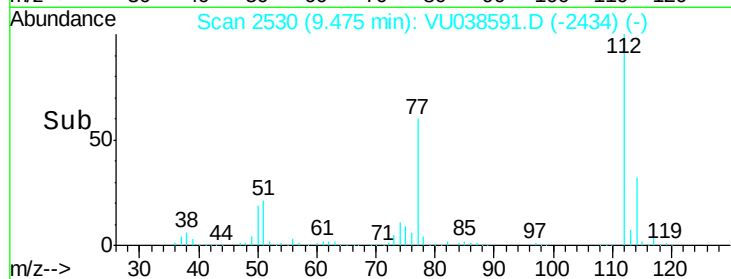
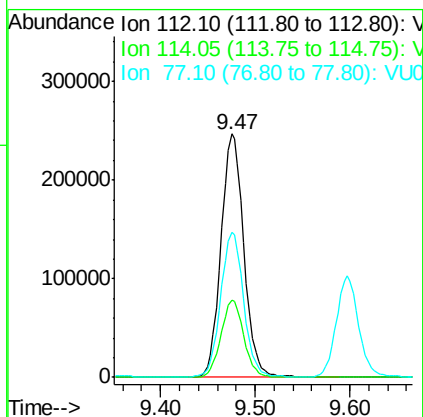
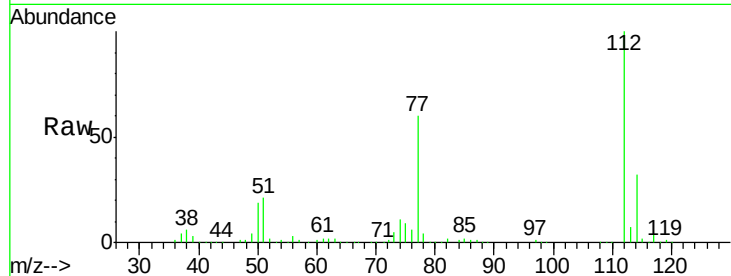




#51
Chlorobenzene
Concen: 7.619 ug/L
RT: 9.47 min Scan# 2530
Delta R.T. 0.01 min
Lab File: VU038591.D
Acq: 06 Jun 2020 01:00

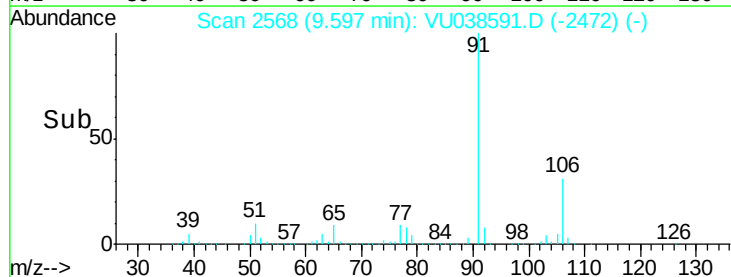
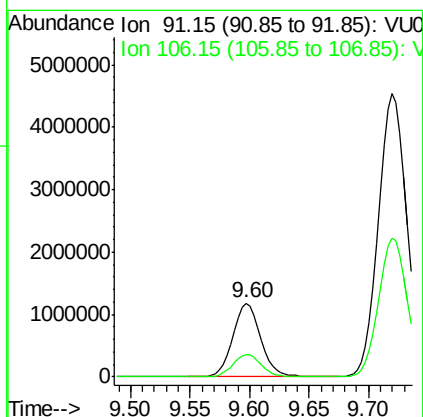
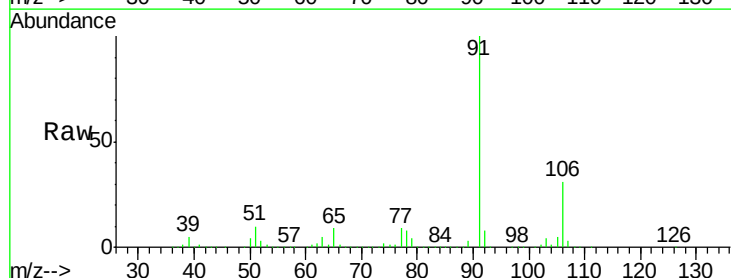
Instrument :
MSVOA_U
ClientSampleId :
BFXD8

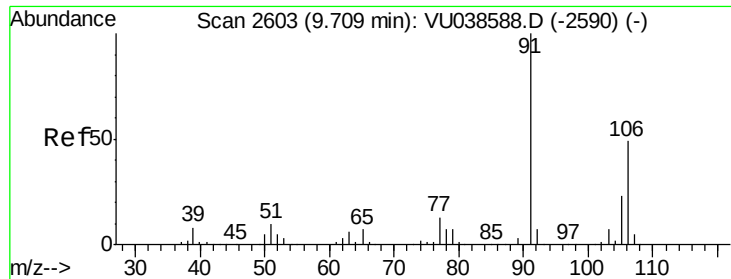
Tot Ion:112 Resp: 413311
Ion Ratio Lower Upper
112 100
114 31.6 22.4 41.6
77 59.8 47.1 70.7



#52
Ethylbenzene
Concen: 20.559 ug/L
RT: 9.60 min Scan# 2568
Delta R.T. 0.01 min
Lab File: VU038591.D
Acq: 06 Jun 2020 01:00

Tgt Ion: 91 Resp: 1924124
Ion Ratio Lower Upper
91 100
106 30.9 21.7 40.3

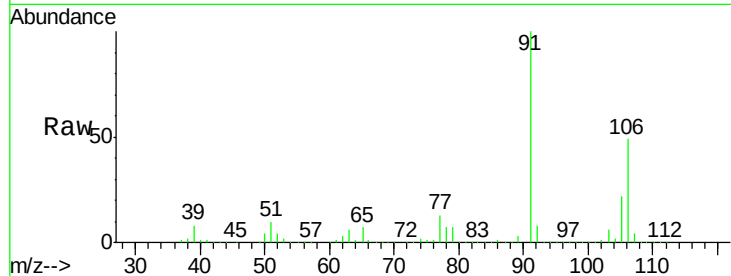




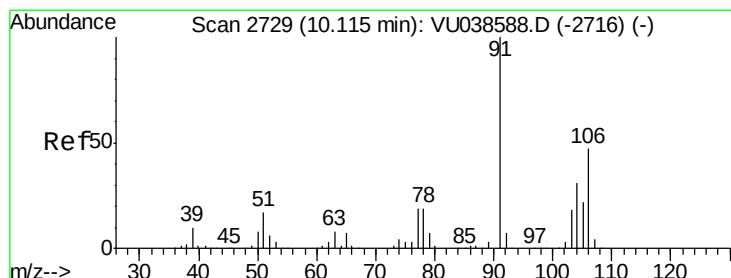
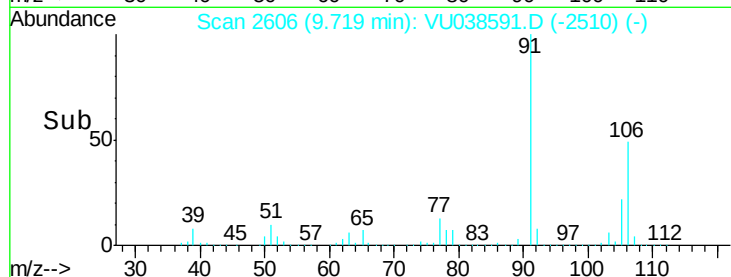
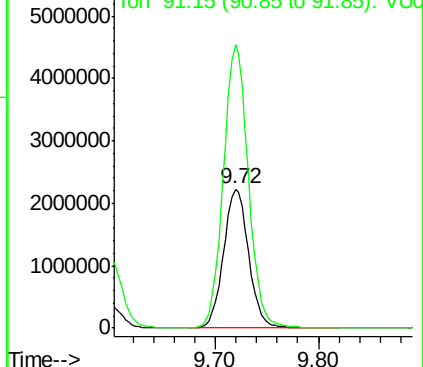
#53
m,p-Xylene
Concen: 104.489 ug/L
RT: 9.72 min Scan# 2606
Delta R.T. 0.01 min
Lab File: VU038591.D
Acq: 06 Jun 2020 01:00

Instrument :
MSVOA_U
ClientSampled :
BFXD8

Tot Ion:106 Resp: 3760992
Ion Ratio Lower Upper
106 100
91 203.4 138.1 256.5

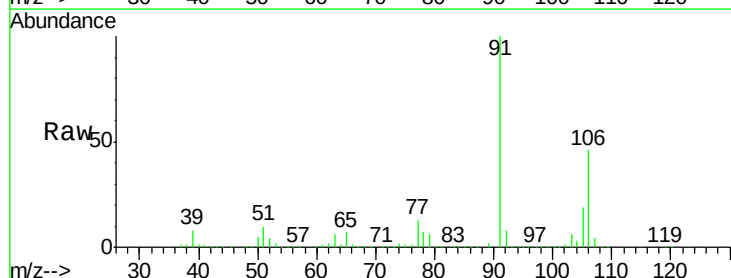


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

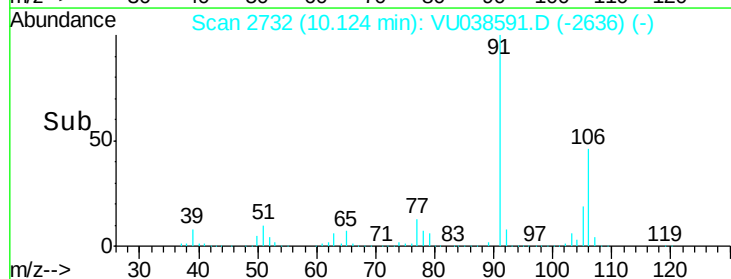
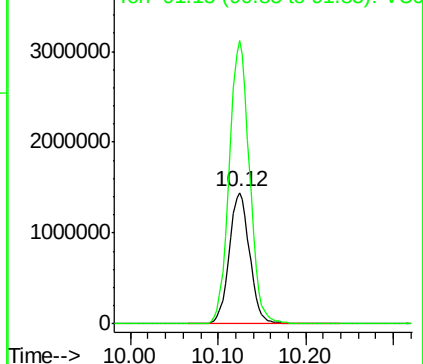


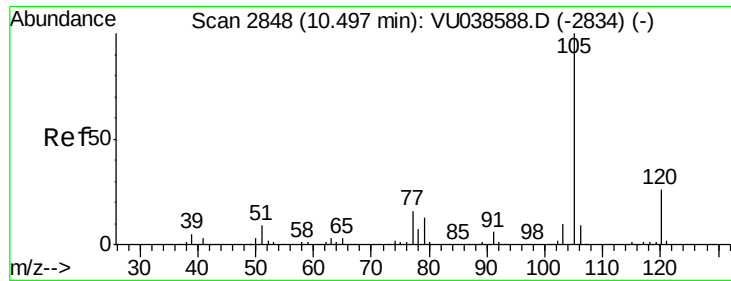
#54
o-Xylene
Concen: 67.524 ug/L
RT: 10.12 min Scan# 2732
Delta R.T. 0.01 min
Lab File: VU038591.D
Acq: 06 Jun 2020 01:00

Tgt Ion:106 Resp: 2333148
Ion Ratio Lower Upper
106 100
91 215.6 150.6 279.8



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





#56

Isopropylbenzene

Concen: 3.945 ug/L

RT: 10.50 min Scan# 2850

Delta R.T. 0.01 min

Lab File: VU038591.D

Acq: 06 Jun 2020 01:00

Instrument :

MSVOA_U

ClientSampleID :

BFXD8

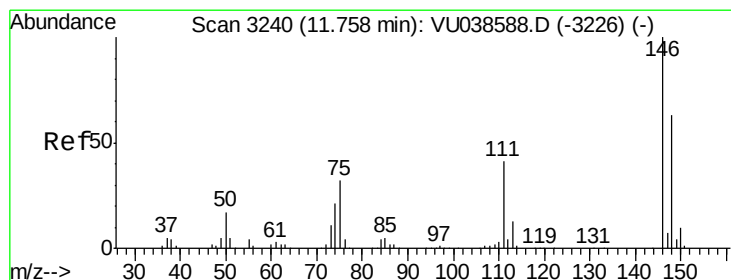
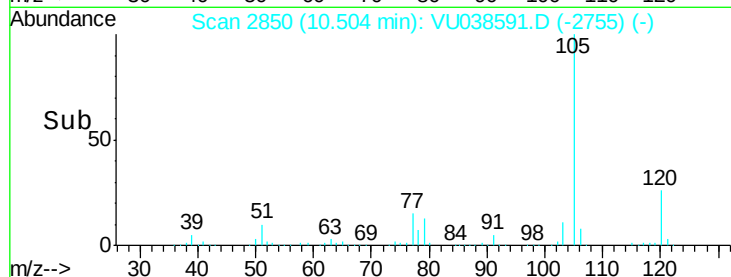
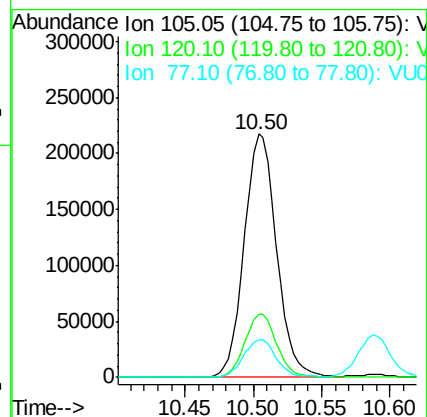
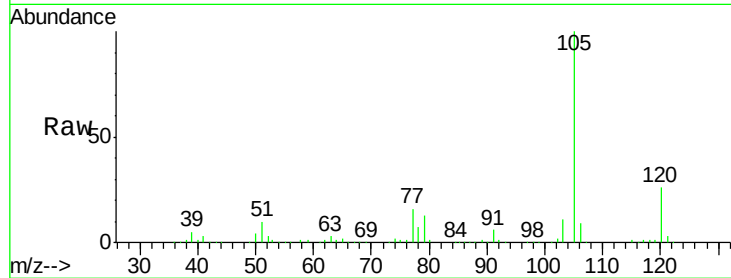
Tot Ion:105 Resp: 358786

Ion Ratio Lower Upper

105 100

120 25.7 20.7 31.1

77 16.0 12.5 18.7



#62

1,3-Dichlorobenzene

Concen: 0.443 ug/L

RT: 11.76 min Scan# 3241

Delta R.T. 0.00 min

Lab File: VU038591.D

Acq: 06 Jun 2020 01:00

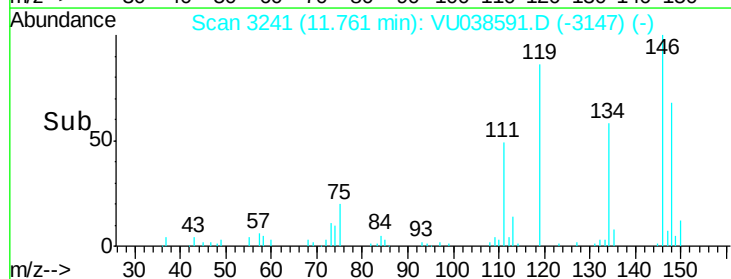
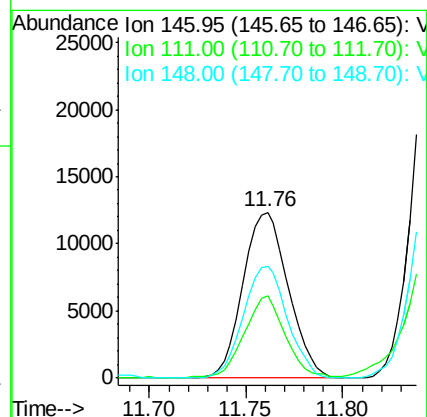
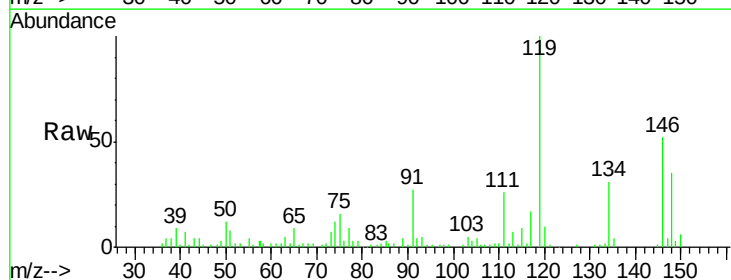
Tgt Ion:146 Resp: 20162

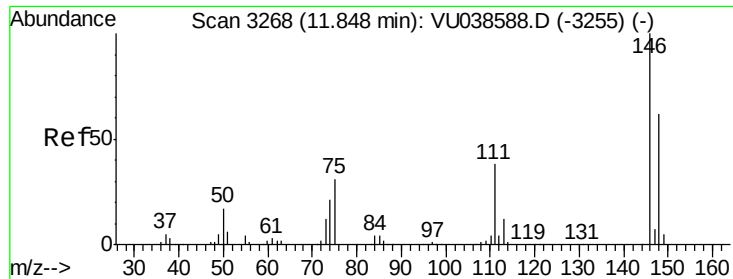
Ion Ratio Lower Upper

146 100

111 49.4 29.5 54.9

148 67.7 45.6 84.6

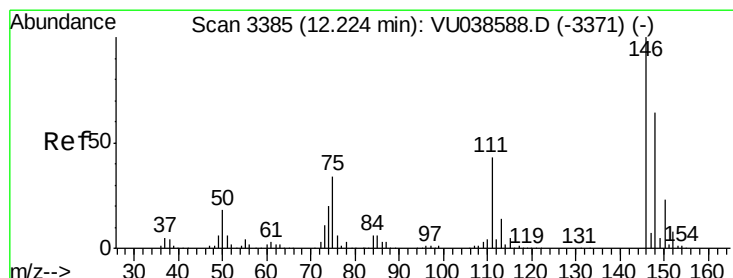
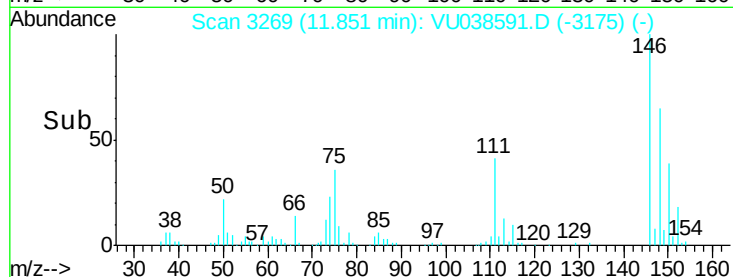
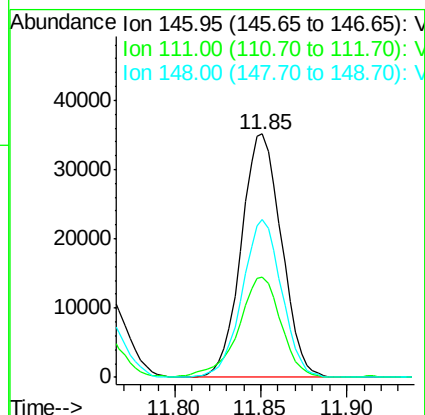
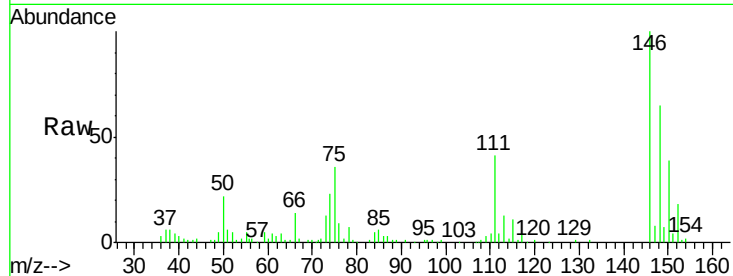




#63
 1,4-Dichlorobenzene
 Concen: 1.235 ug/L
 RT: 11.85 min Scan# 3269
 Delta R.T. 0.00 min
 Lab File: VU038591.D
 Acq: 06 Jun 2020 01:00

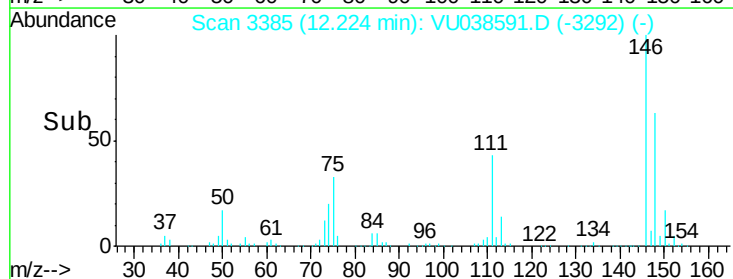
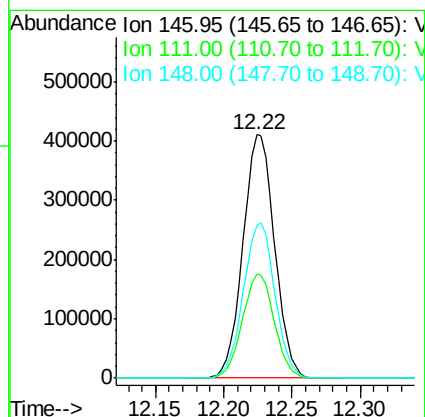
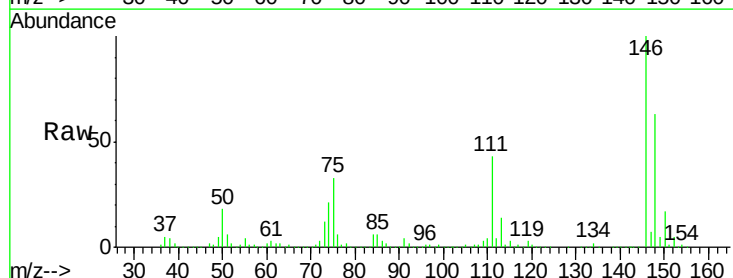
Instrument :
 MSVOA_U
 ClientSampleId :
 BFXD8

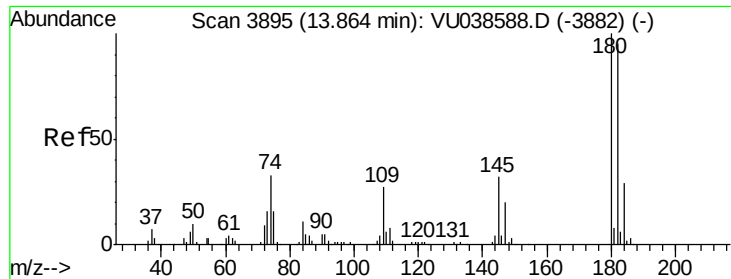
Tot Ion:146 Resp: 57014
 Ion Ratio Lower Upper
 146 100
 111 41.4 27.6 51.2
 148 64.7 44.8 83.2



#65
 1,2-Dichlorobenzene
 Concen: 15.261 ug/L
 RT: 12.22 min Scan# 3385
 Delta R.T. 0.00 min
 Lab File: VU038591.D
 Acq: 06 Jun 2020 01:00

Tgt Ion:146 Resp: 659920
 Ion Ratio Lower Upper
 146 100
 111 42.7 35.1 52.7
 148 62.6 50.9 76.3

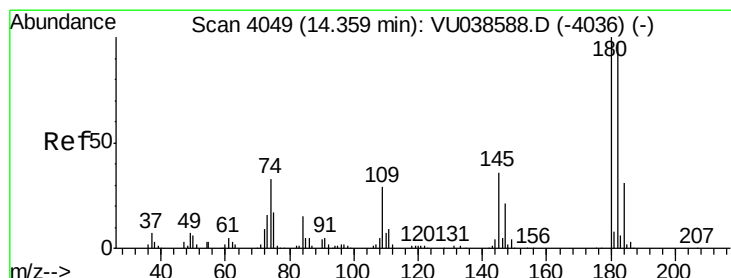
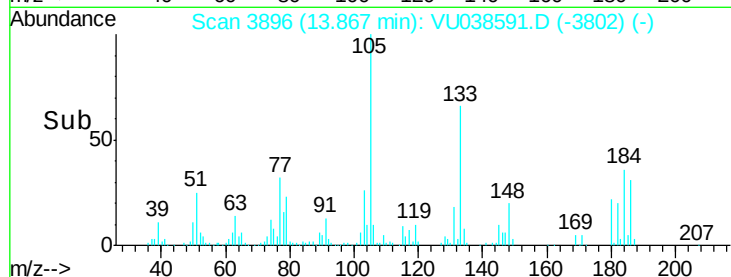
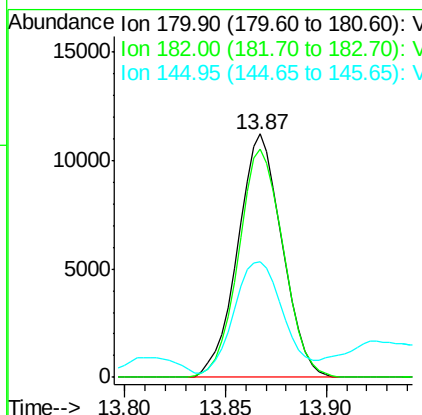
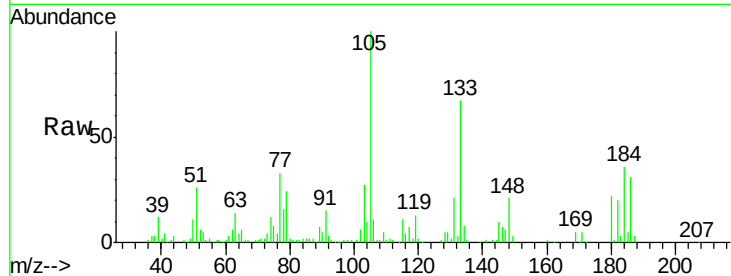




#68
 1,2,4-trichlorobenzene
 Concen: 0.550 ug/L
 RT: 13.87 min Scan# 3896
 Delta R.T. 0.00 min
 Lab File: VU038591.D
 Acq: 06 Jun 2020 01:00

Instrument :
 MSVOA_U
 ClientSampleID :
 BFXD8

Tot Ion:180 Resp: 17304
 Ion Ratio Lower Upper
 180 100
 182 94.8 75.8 113.8
 145 49.8 25.3 37.9#



#70
 1,2,3-Trichlorobenzene
 Concen: 0.217 ug/L
 RT: 14.36 min Scan# 4049
 Delta R.T. 0.00 min
 Lab File: VU038591.D
 Acq: 06 Jun 2020 01:00

Tgt Ion:180 Resp: 6201
 Ion Ratio Lower Upper
 180 100
 182 95.2 78.7 118.1
 145 71.2 27.5 41.3#

