

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U061320\
 Data File : VU038849.D
 Acq On : 12 Jun 2020 14:23
 Operator : SY/MD
 Sample : L2968-04
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BFXE9

Quant Time: Jun 13 01:36:23 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR061220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Jun 13 00:56:28 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	288620	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	284452	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	135835	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	95879	6.10	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	122.00%
7) Chloroethane-d5	1.93	69	78274	6.19	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	123.80%
11) 1,1-Dichloroethene-d2	2.59	63	153289	4.28	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	85.60%
20) 2-Butanone-d5	4.68	46	301866	61.14	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	122.28%
24) Chloroform-d	5.10	84	189253	5.43	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	108.60%
26) 1,2-Dichloroethane-d4	5.74	65	110338	5.60	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	112.00%
32) Benzene-d6	5.76	84	378833	5.70	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	114.00%
36) 1,2-Dichloropropane-d6	6.72	67	110181	5.54	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	110.80%
41) Toluene-d8	7.92	98	319048	5.23	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	104.60%
43) trans-1,3-Dichloropropene-	8.20	79	45268	5.12	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	102.40%
46) 2-Hexanone-d5	8.65	63	257309	65.58	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	131.16%#
57) 1,1,2,2-Tetrachloroethane-	10.77	84	96255	5.53	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	110.60%
64) 1,2-Dichlorobenzene-d4	12.20	152	127785	5.78	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	115.60%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.62	62	44604	1.810	ug/L	97
18) trans-1,2-Dichloroethene	3.38	96	6184	0.285	ug/L	75
19) 1,1-Dichloroethane	3.91	63	139490	3.571	ug/L	99
22) cis-1,2-Dichloroethene	4.71	96	202462	8.957	ug/L	97
25) Chloroform	5.12	83	80368	1.996	ug/L	95
27) 1,2-Dichloroethane	5.83	62	15991	0.569	ug/L	97
29) 1,1,1-Trichloroethane	5.35	97	52273	1.489	ug/L	100
30) Cyclohexane	5.43	56	6539	0.192	ug/L	91
33) Benzene	5.81	78	35403	0.412	ug/L	100
34) Trichloroethene	6.57	95	9513	0.424	ug/L	97
45) 1,1,2-Trichloroethane	8.43	97	7032	0.426	ug/L	94
51) Chlorobenzene	9.47	112	57291	0.980	ug/L	97
54) o-Xylene	10.12	106	5141	0.142	ug/L	97
62) 1,3-Dichlorobenzene	11.76	146	7333	0.167	ug/L	94
63) 1,4-Dichlorobenzene	11.85	146	10558	0.236	ug/L	94
65) 1,2-Dichlorobenzene	12.22	146	5170	0.125	ug/L	98
68) 1,2,4-trichlorobenzene	13.87	180	5820	0.205	ug/L	91

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ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
BFXE9

Quant Time: Jun 13 01:36:23 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR061220WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Jun 13 00:56:28 2020
Response via : Initial Calibration

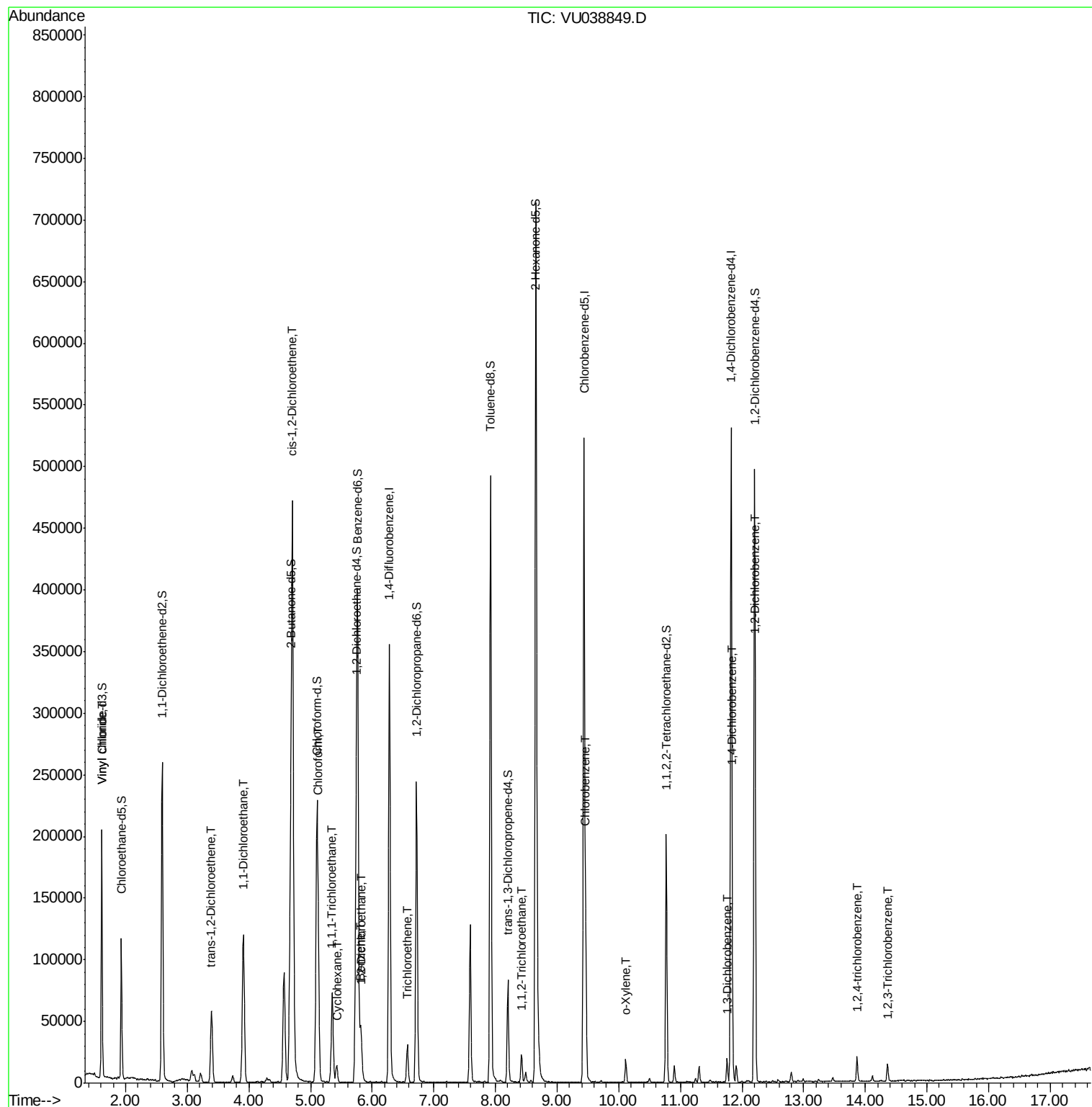
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 1,2,3-Trichlorobenzene	14.37	180	4336	0.167	ug/L	90

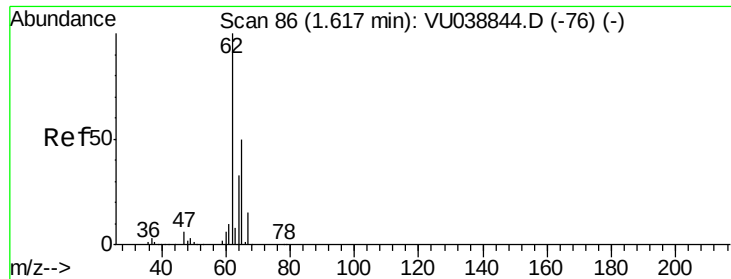
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Jun 13 00:56:28 2020
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 1.810 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU038849.D

Acq: 12 Jun 2020 14:23

Instrument :

MSVOA_U

ClientSampleId :

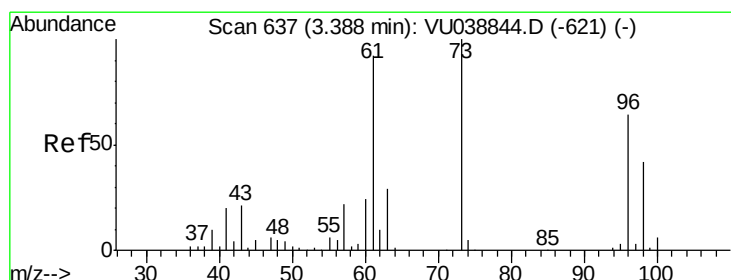
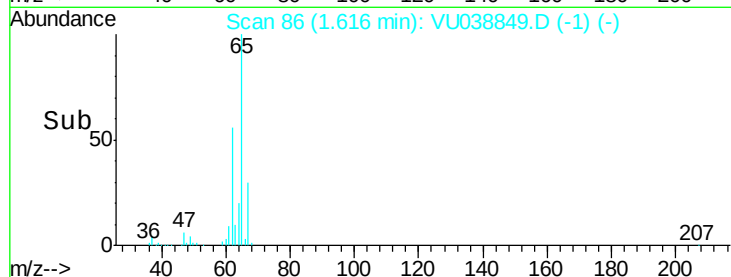
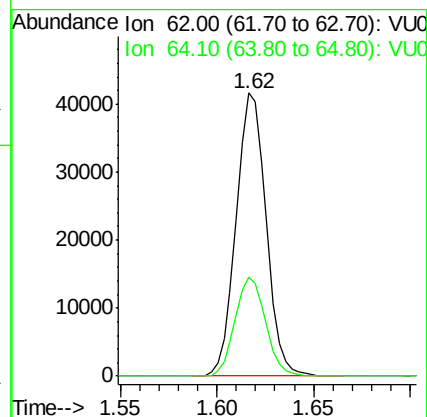
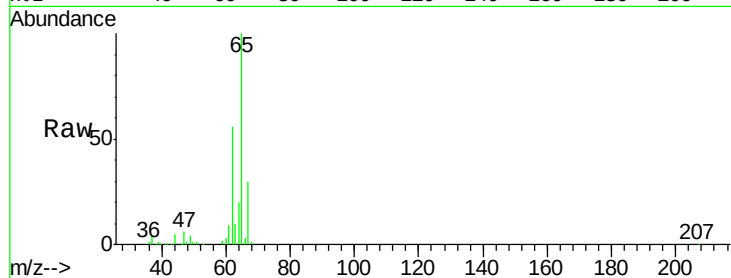
BFXE9

Tot Ion: 62 Resp: 44604

Ion Ratio Lower Upper

62 100

64 35.0 23.4 43.6



#18

trans-1,2-Dichloroethene

Concen: 0.285 ug/L

RT: 3.38 min Scan# 636

Delta R.T. -0.00 min

Lab File: VU038849.D

Acq: 12 Jun 2020 14:23

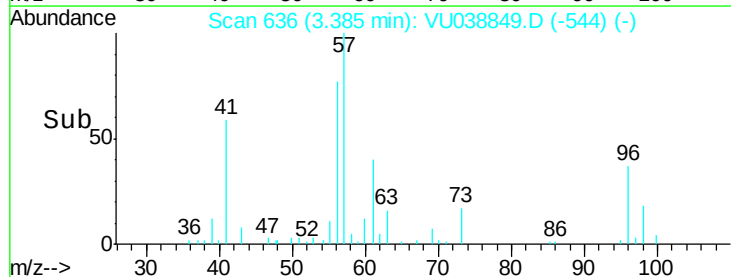
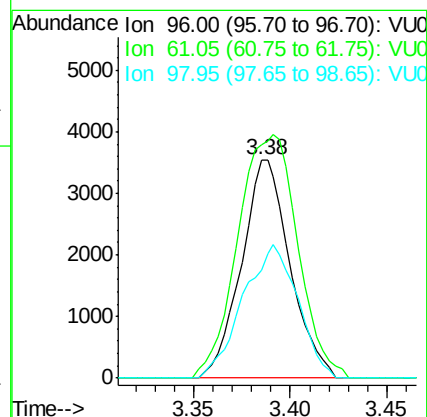
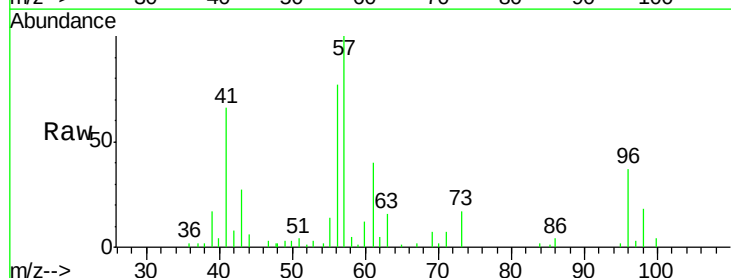
Tgt Ion: 96 Resp: 6184

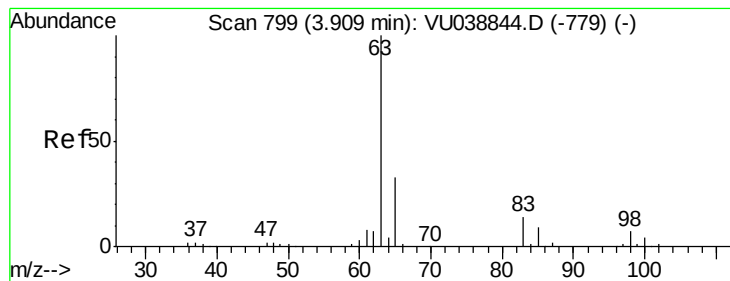
Ion Ratio Lower Upper

96 100

61 107.0 99.3 184.5

98 49.4 43.9 81.5





#19

1,1-Dichloroethane

Concen: 3.571 ug/L

RT: 3.91 min Scan# 799

Delta R.T. -0.00 min

Lab File: VU038849.D

Acq: 12 Jun 2020 14:23

Instrument :

MSVOA_U

ClientSampleId :

BFXE9

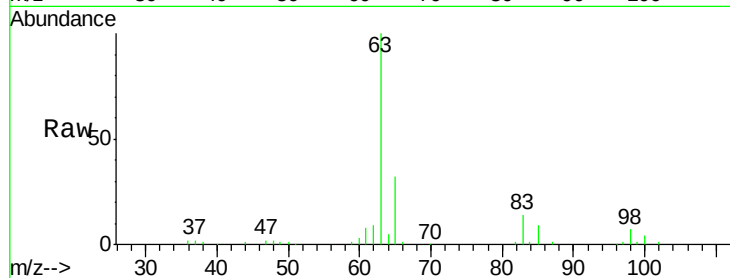
Tot Ion: 63 Resp: 139490

Ion Ratio Lower Upper

63 100

65 31.5 22.3 41.5

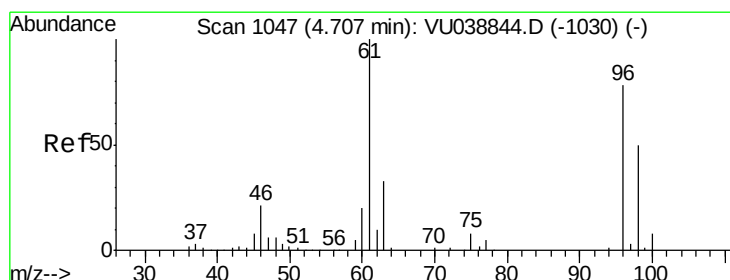
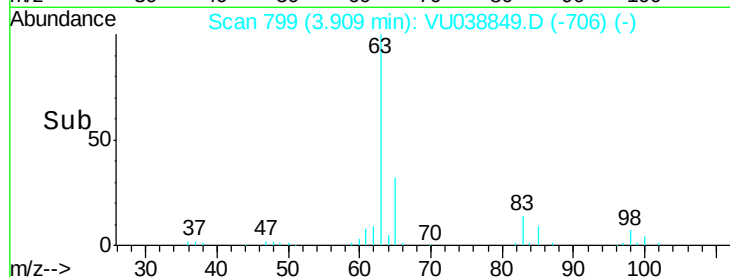
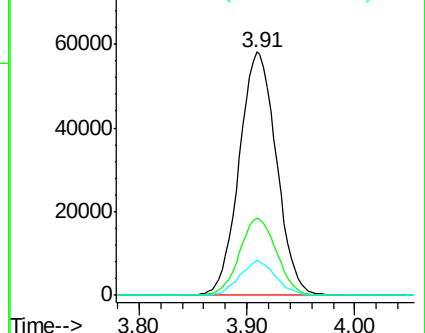
83 14.3 10.1 18.9



Abundance Ion 63.10 (62.80 to 63.80): VU038849.D (-799) (-)

Ion 65.10 (64.80 to 65.80): VU038849.D (-799) (-)

Ion 83.05 (82.75 to 83.75): VU038849.D (-799) (-)



#22

cis-1,2-Dichloroethene

Concen: 8.957 ug/L

RT: 4.71 min Scan# 1047

Delta R.T. -0.00 min

Lab File: VU038849.D

Acq: 12 Jun 2020 14:23

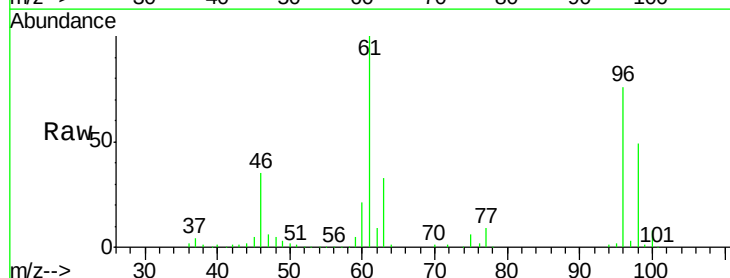
Tgt Ion: 96 Resp: 202462

Ion Ratio Lower Upper

96 100

61 131.4 89.7 166.7

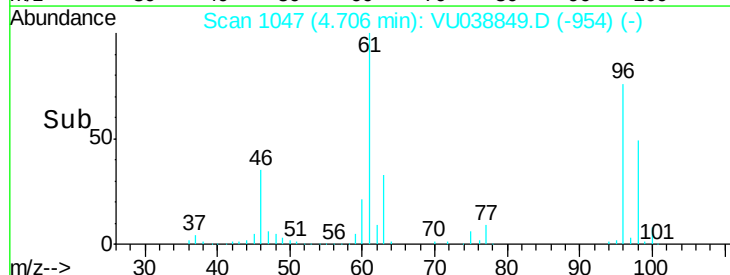
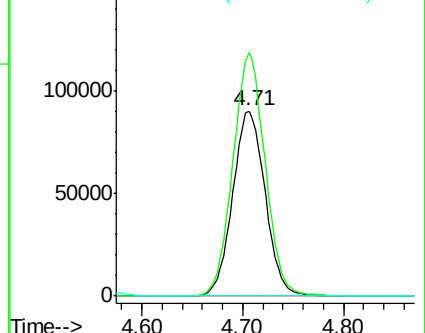
68 0.0 0.0 0.0

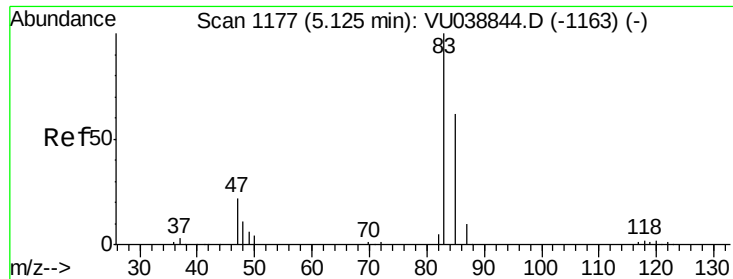


Abundance Ion 96.00 (95.70 to 96.70): VU038849.D (-1047) (-)

Ion 61.05 (60.75 to 61.75): VU038849.D (-1047) (-)

Ion 68.15 (67.85 to 68.85): VU038849.D (-1047) (-)

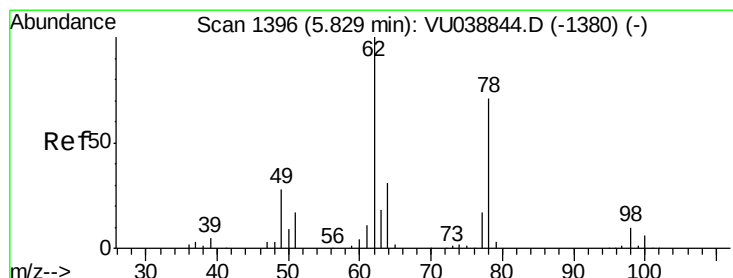
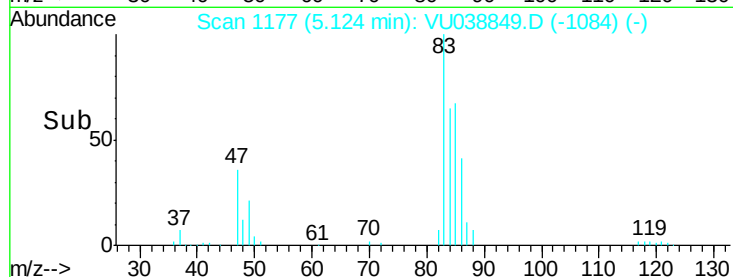
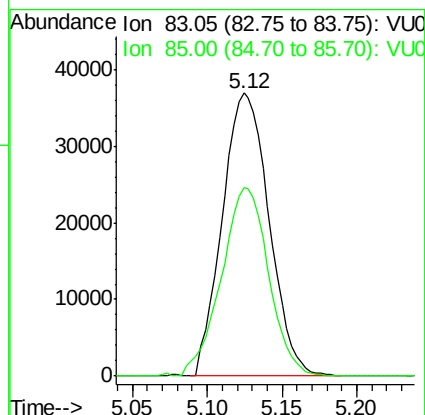
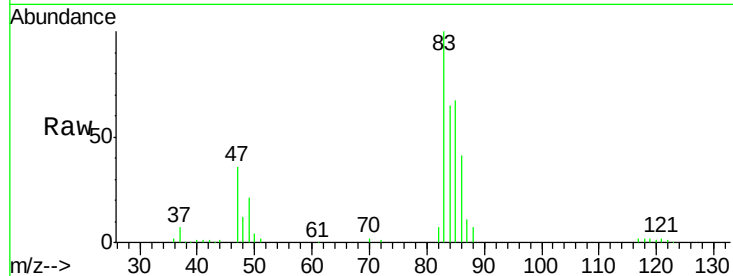




#25
Chloroform
Concen: 1.996 ug/L
RT: 5.12 min Scan# 1177
Delta R.T. -0.00 min
Lab File: VU038849.D
Acq: 12 Jun 2020 14:23

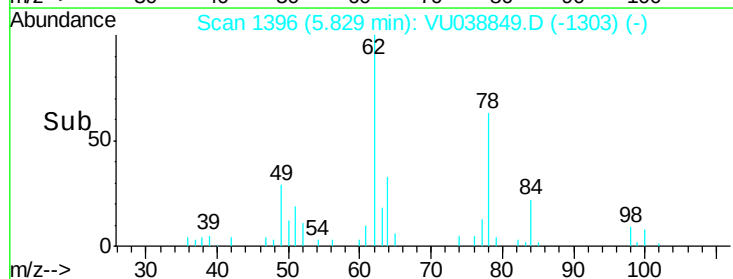
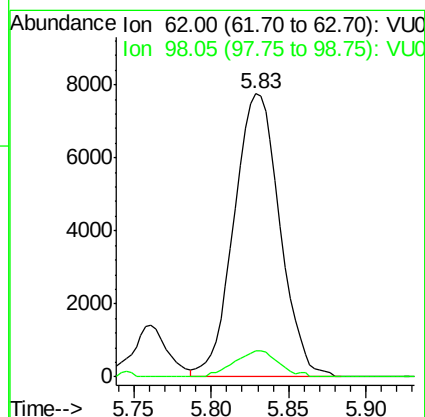
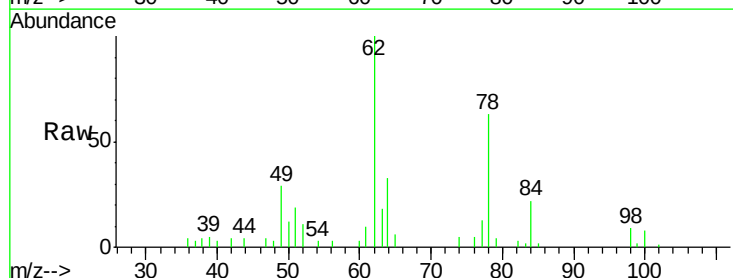
Instrument :
MSVOA_U
ClientSampleId :
BFXE9

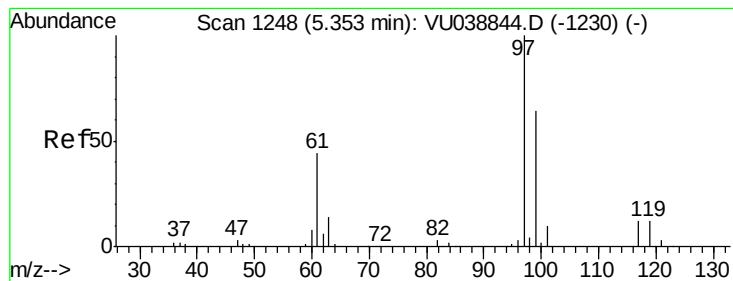
Tot Ion: 83 Resp: 80368
Ion Ratio Lower Upper
83 100
85 66.7 44.1 81.9



#27
1,2-Dichloroethane
Concen: 0.569 ug/L
RT: 5.83 min Scan# 1396
Delta R.T. -0.00 min
Lab File: VU038849.D
Acq: 12 Jun 2020 14:23

Tgt Ion: 62 Resp: 15991
Ion Ratio Lower Upper
62 100
98 9.3 8.2 12.4





#29

1,1,1-Trichloroethane

Concen: 1.489 ug/L

RT: 5.35 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VU038849.D

Acq: 12 Jun 2020 14:23

Instrument :

MSVOA_U

ClientSampleId :

BFXE9

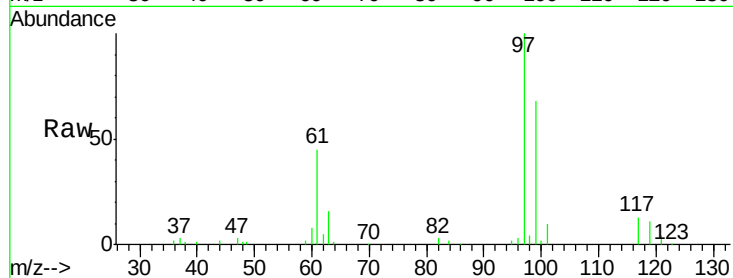
Tot Ion: 97 Resp: 52273

Ion Ratio Lower Upper

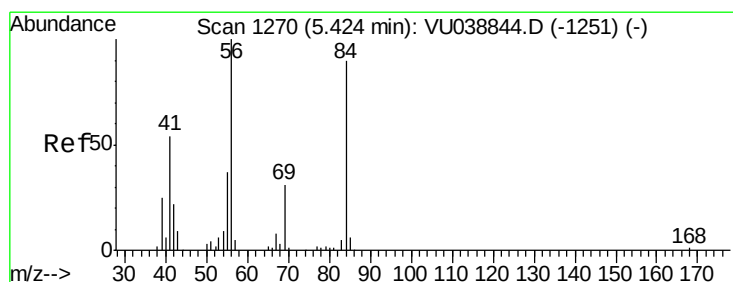
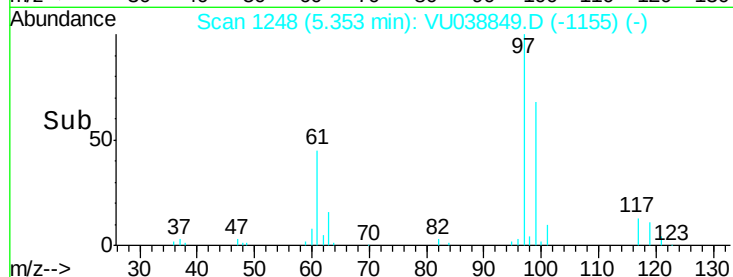
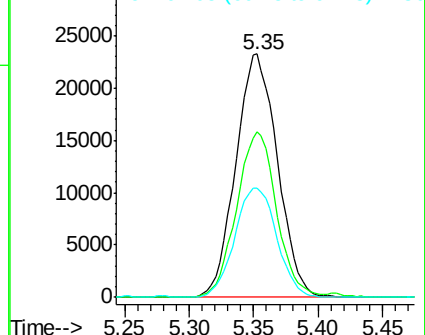
97 100

99 65.3 52.1 78.1

61 45.2 35.9 53.9



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



#30

Cyclohexane

Concen: 0.192 ug/L

RT: 5.43 min Scan# 1272

Delta R.T. 0.01 min

Lab File: VU038849.D

Acq: 12 Jun 2020 14:23

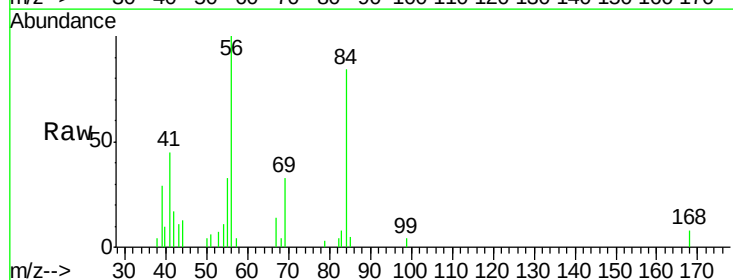
Tgt Ion: 56 Resp: 6539

Ion Ratio Lower Upper

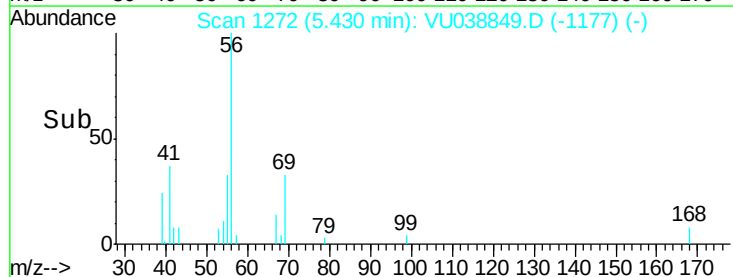
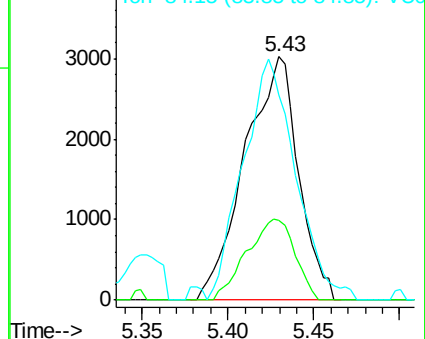
56 100

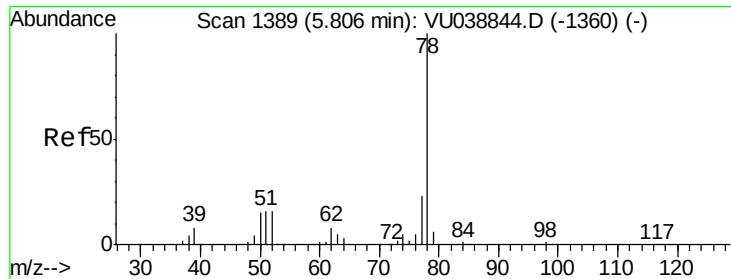
69 29.8 25.1 37.7

84 97.4 69.5 104.3



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: 0.412 ug/L

RT: 5.81 min Scan# 1390

Delta R.T. 0.00 min

Lab File: VU038849.D

Acq: 12 Jun 2020 14:23

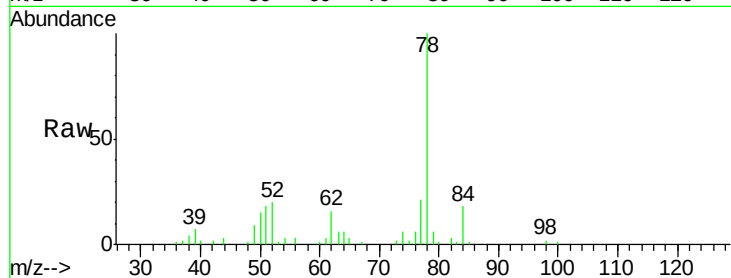
Instrument :

MSVOA_U

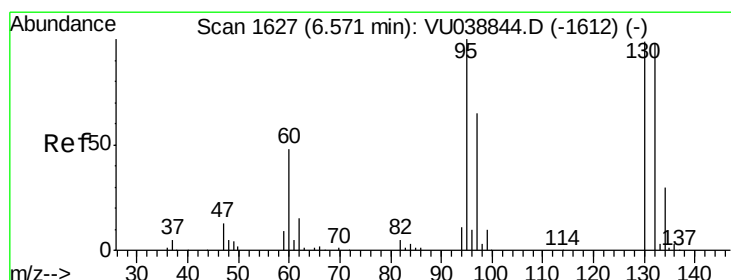
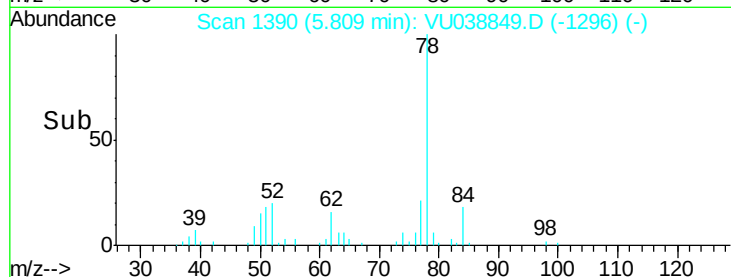
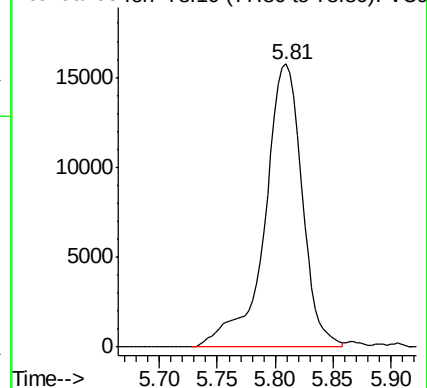
ClientSampled :

BFXE9

Tgt Ion: 78 Resp: 35403



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34

Trichloroethene

Concen: 0.424 ug/L

RT: 6.57 min Scan# 1628

Delta R.T. 0.00 min

Lab File: VU038849.D

Acq: 12 Jun 2020 14:23

Tgt Ion: 95 Resp: 9513

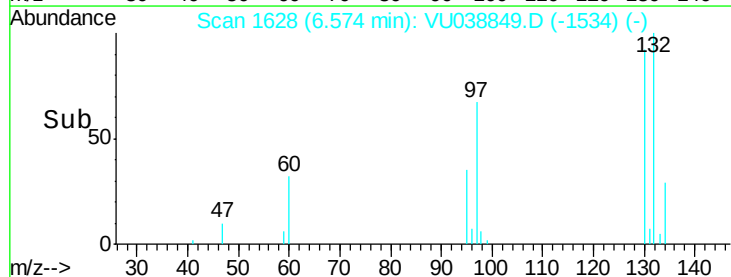
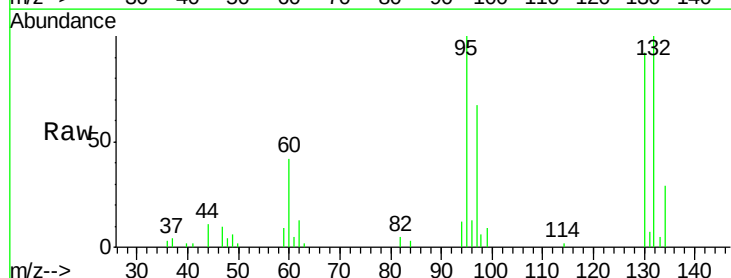
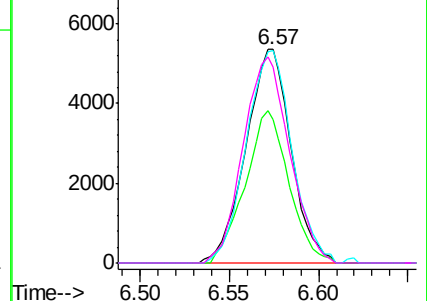
Ion	Ratio	Lower	Upper
95	100		
97	66.9	46.1	85.5
132	99.7	67.5	125.3
130	91.7	66.7	123.9

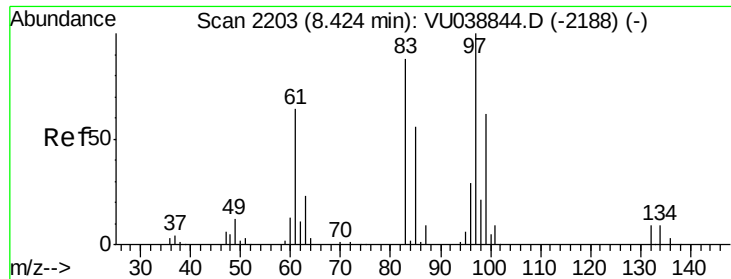
Abundance Ion 95.00 (94.70 to 95.70): VU0

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

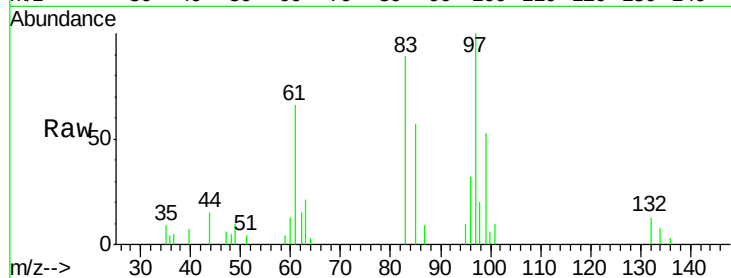




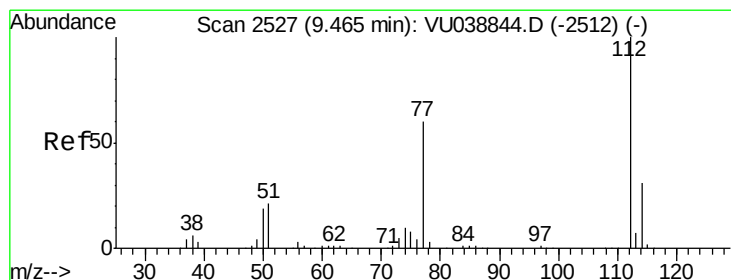
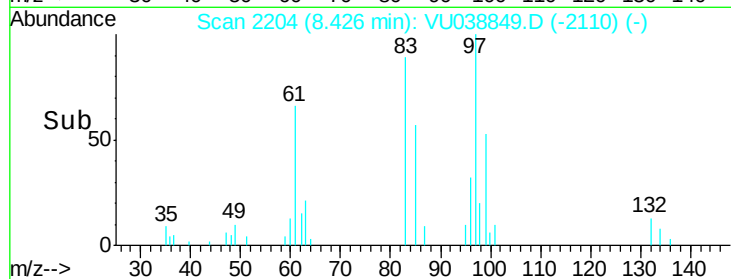
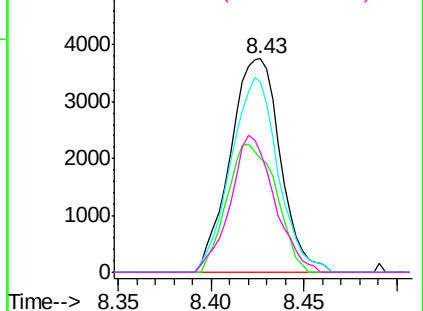
#45
 1,1,2-Trichloroethane
 Concen: 0.426 ug/L
 RT: 8.43 min Scan# 2204
 Delta R.T. 0.00 min
 Lab File: VU038849.D
 Acq: 12 Jun 2020 14:23

Instrument :
 MSVOA_U
 ClientSampleId :
 BFXE9

Tot Ion:	97	Resp:	7032
Ion	Ratio	Lower	Upper
97	100		
99	53.4	42.9	79.7
83	89.1	58.0	107.8
85	56.5	39.3	72.9

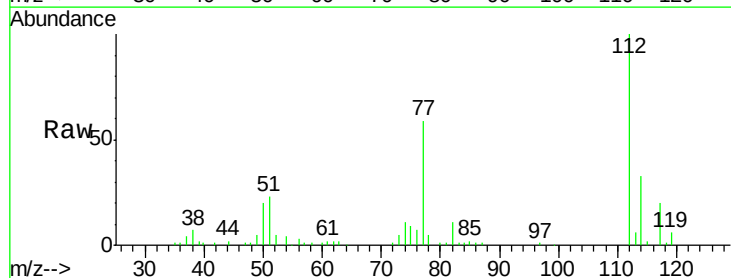


Abundance Ion 96.95 (96.65 to 97.65): VU038849.D (-2110) (-)
 Ion 99.05 (98.75 to 99.75): VU038849.D (-2110) (-)
 Ion 82.95 (82.65 to 83.65): VU038849.D (-2110) (-)
 Ion 85.00 (84.70 to 85.70): VU038849.D (-2110) (-)

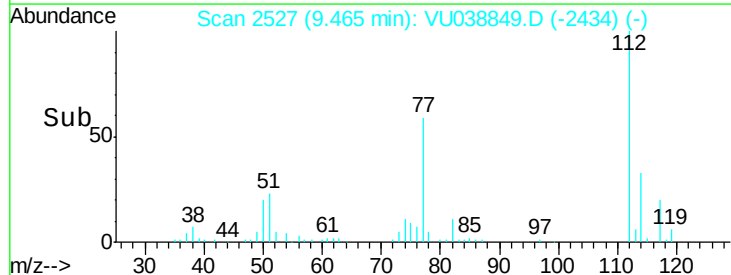
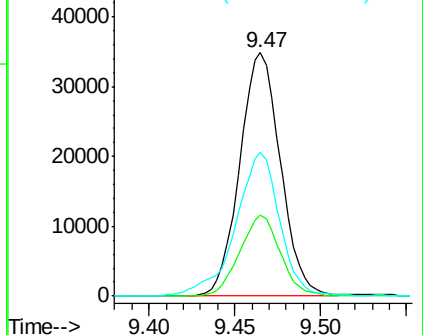


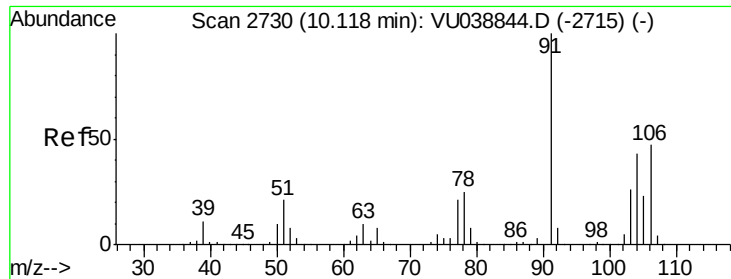
#51
 Chlorobenzene
 Concen: 0.980 ug/L
 RT: 9.47 min Scan# 2527
 Delta R.T. -0.00 min
 Lab File: VU038849.D
 Acq: 12 Jun 2020 14:23

Tgt Ion:	112	Resp:	57291
Ion	Ratio	Lower	Upper
112	100		
114	33.3	22.5	41.9
77	59.1	49.3	73.9



Abundance Ion 112.10 (111.80 to 112.80): VU038849.D (-2434) (-)
 Ion 114.05 (113.75 to 114.75): VU038849.D (-2434) (-)
 Ion 77.10 (76.80 to 77.80): VU038849.D (-2434) (-)

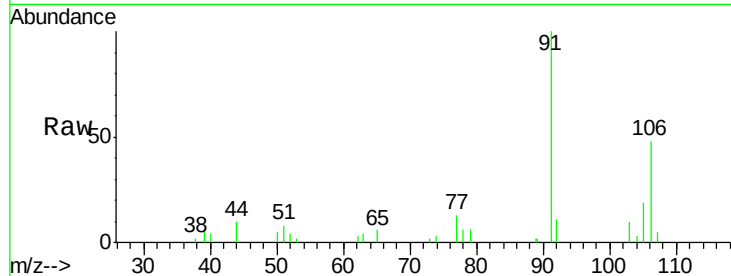




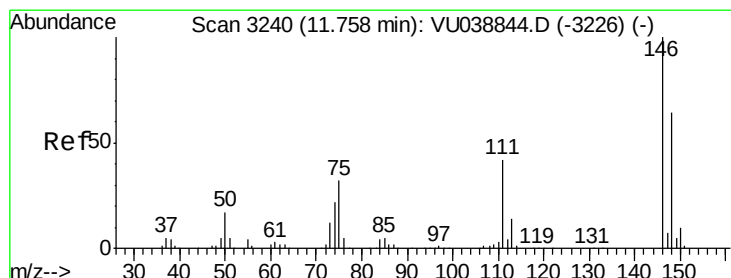
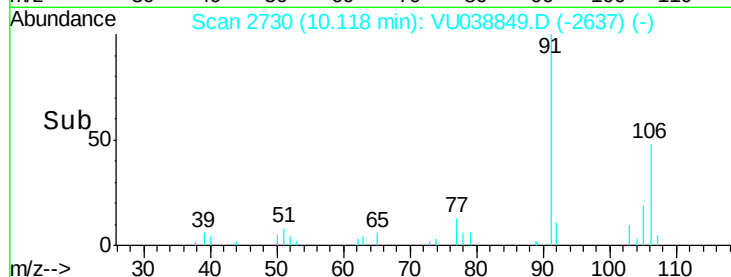
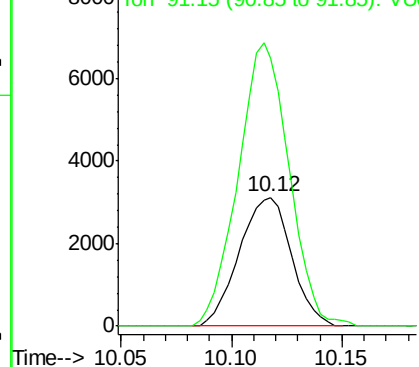
#54
o-Xylene
Concen: 0.142 ug/L
RT: 10.12 min Scan# 2730
Delta R.T. -0.00 min
Lab File: VU038849.D
Acq: 12 Jun 2020 14:23

Instrument :
MSVOA_U
ClientSampled :
BFXE9

Tot Ion:106 Resp: 5141
Ion Ratio Lower Upper
106 100
91 207.8 149.1 276.9

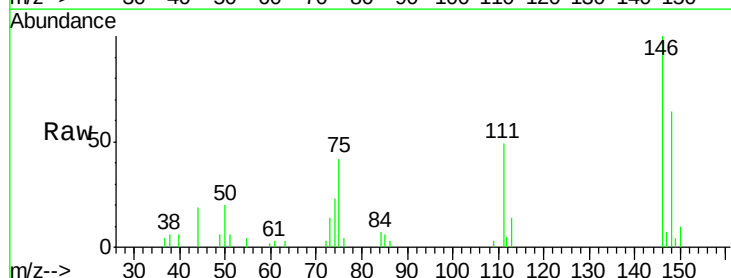


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

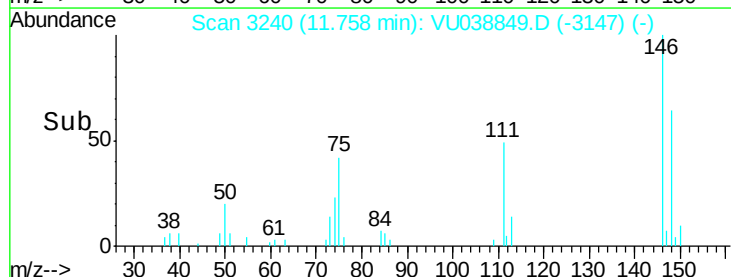
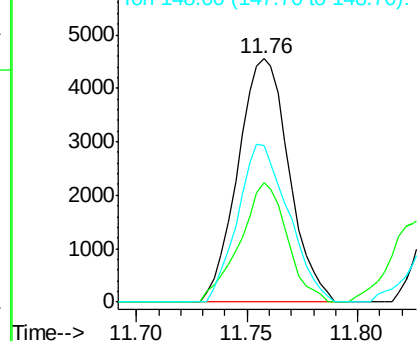


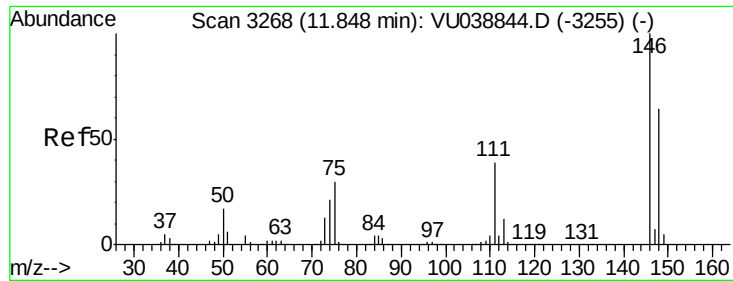
#62
1,3-Dichlorobenzene
Concen: 0.167 ug/L
RT: 11.76 min Scan# 3240
Delta R.T. -0.00 min
Lab File: VU038849.D
Acq: 12 Jun 2020 14:23

Tgt Ion:146 Resp: 7333
Ion Ratio Lower Upper
146 100
111 49.2 29.5 54.9
148 64.4 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





#63

1,4-Dichlorobenzene

Concen: 0.236 ug/L

RT: 11.85 min Scan# 3268

Delta R.T. -0.00 min

Lab File: VU038849.D

Acq: 12 Jun 2020 14:23

Instrument :

MSVOA_U

ClientSampleId :

BFXE9

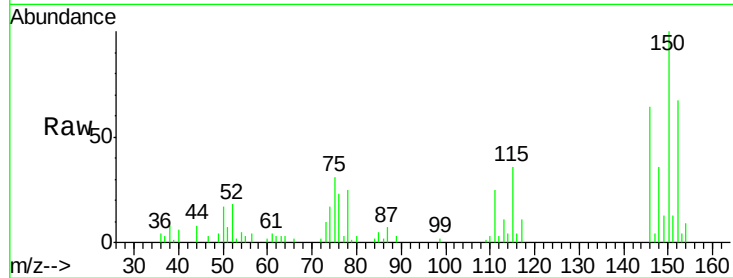
Tot Ion:146 Resp: 10558

Ion Ratio Lower Upper

146 100

111 39.5 27.9 51.9

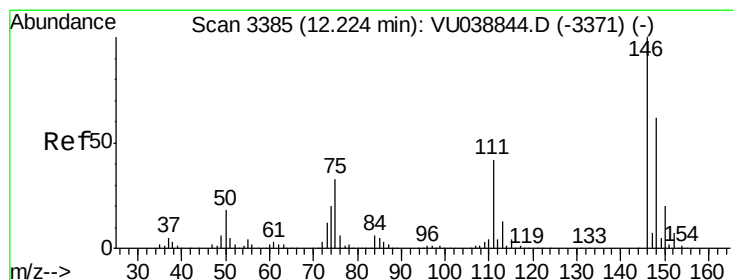
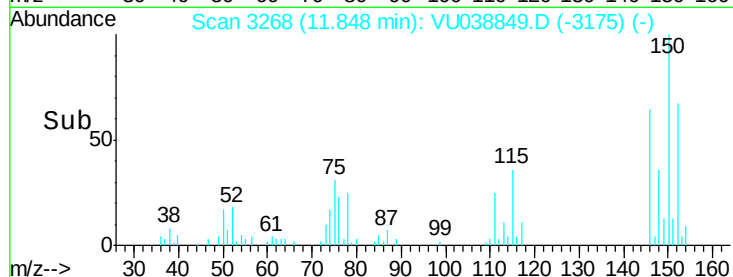
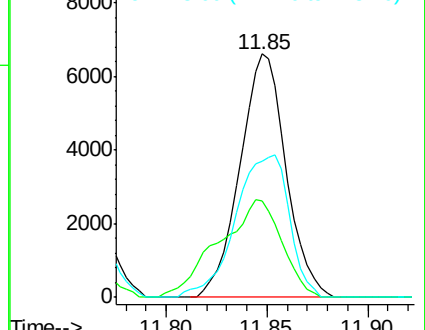
148 56.1 44.6 82.8



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: 0.125 ug/L

RT: 12.22 min Scan# 3385

Delta R.T. -0.00 min

Lab File: VU038849.D

Acq: 12 Jun 2020 14:23

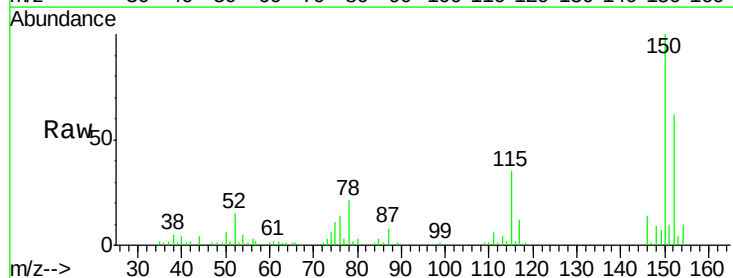
Tgt Ion:146 Resp: 5170

Ion Ratio Lower Upper

146 100

111 46.0 35.6 53.4

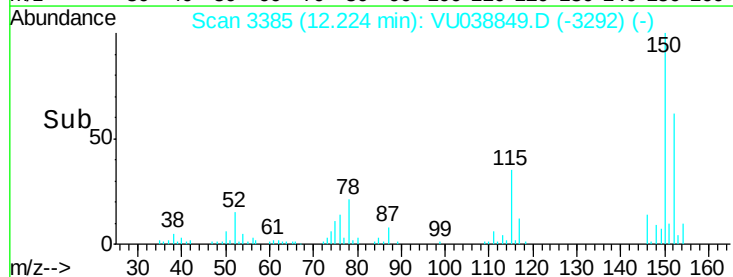
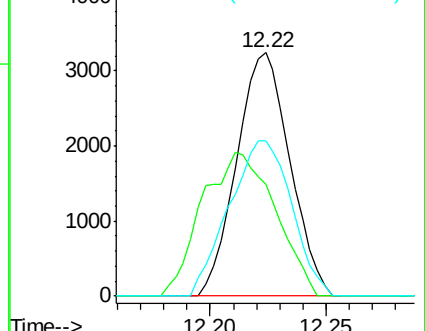
148 64.0 51.8 77.8

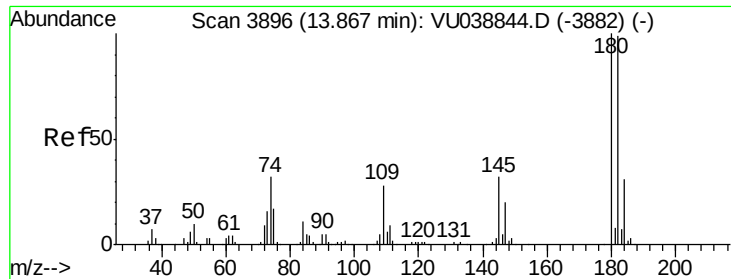


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

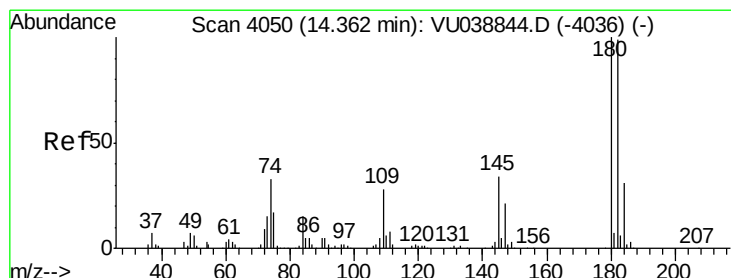
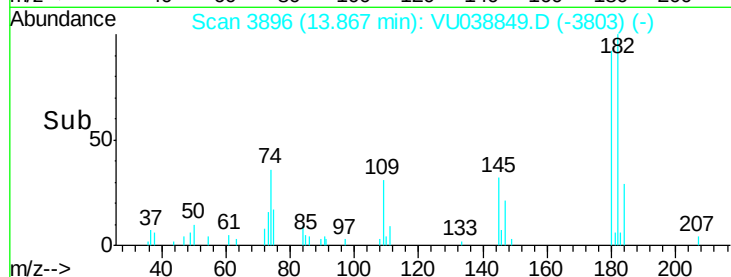
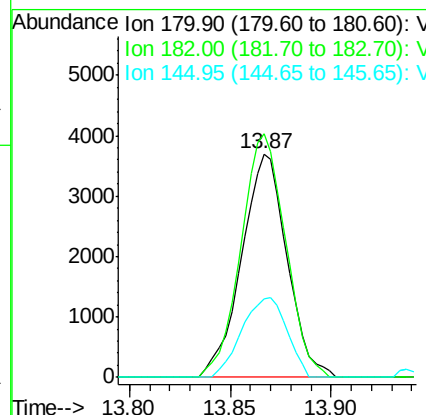
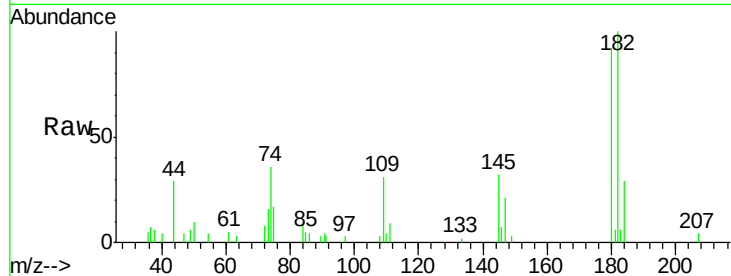




#68
 1,2,4-trichlorobenzene
 Concen: 0.205 ug/L
 RT: 13.87 min Scan# 3896
 Delta R.T. -0.00 min
 Lab File: VU038849.D
 Acq: 12 Jun 2020 14:23

Instrument :
 MSVOA_U
 ClientSampleId :
 BFXE9

Tot Ion:180 Resp: 5820
 Ion Ratio Lower Upper
 180 100
 182 107.1 78.5 117.7
 145 35.4 25.0 37.4



#70
 1,2,3-Trichlorobenzene
 Concen: 0.167 ug/L
 RT: 14.37 min Scan# 4051
 Delta R.T. 0.00 min
 Lab File: VU038849.D
 Acq: 12 Jun 2020 14:23

Tgt Ion:180 Resp: 4336
 Ion Ratio Lower Upper
 180 100
 182 106.7 76.1 114.1
 145 36.6 27.8 41.6

