

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\U072822\
 Data File : U049983.D
 Acq On : 28 Jul 2022 13:51
 Operator : SY/MD
 Sample : N3873-01
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 GBJ27

Quant Time: Jul 29 02:36:09 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR072722WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Jul 29 02:27:55 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Difluorobenzene	6.250	114	52664	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.417	117	49461	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	18172	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	31512	6.969	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	= 139.400%#	
7) Chloroethane-d5	1.912	69	24178	7.444	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	= 148.800%#	
11) 1,1-Dichloroethene-d2	2.565	65	11620	7.456	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	= 149.200%#	
20) 2-Butanone-d5	4.623	46	96752	96.121	ug/L	-0.04
Spiked Amount	50.000	Range	40 - 130	Recovery	= 192.240%#	
24) Chloroform-d	5.063	84	51619	6.899	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	= 138.000%#	
26) 1,2-Dichloroethane-d4	5.703	65	29199	7.744	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	= 154.800%#	
32) Benzene-d6	5.729	84	102166	6.990	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	= 139.800%#	
36) 1,2-Dichloropropane-d6	6.690	67	34528	7.211	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	= 144.200%#	
41) Toluene-d8	7.899	98	82921	6.383	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	= 127.600%	
43) trans-1,3-Dichloroprop...	8.179	79	12634	7.529	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	= 150.600%#	
46) 2-Hexanone-d5	8.632	63	53864	85.742	ug/L	-0.01
Spiked Amount	50.000	Range	45 - 130	Recovery	= 171.480%#	
56) 1,1,2,2-Tetrachloroeth...	10.758	84	35998	8.948	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	= 179.000%#	
66) 1,2-Dichlorobenzene-d4	12.192	152	26345	7.816	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	= 156.400%#	
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.604	62	480	0.106	ug/L #	5
8) Chloroethane	1.932	64	2844	1.108	ug/L	99
10) 1,1,2-Trichloro-1,2,2-...	2.568	101	462	0.147	ug/L #	30
12) 1,1-Dichloroethene	2.578	96	43883	15.098	ug/L	88
14) Carbon disulfide	2.790	76	1154	0.131	ug/L #	75
15) Methyl Acetate	3.038	43	2721	1.854	ug/L #	48
19) 1,1-Dichloroethane	3.870	63	74833	11.419	ug/L	97
22) cis-1,2-Dichloroethene	4.665	96	346	0.091	ug/L	74
27) 1,2-Dichloroethane	5.800	62	985	0.240	ug/L #	73
29) 1,1,1-Trichloroethane	5.317	97	15138	2.882	ug/L	97
30) Cyclohexane	5.398	56	685	0.155	ug/L #	85
31) Carbon tetrachloride	5.311	117	1937	0.454	ug/L	95
33) Benzene	5.774	78	1361	0.094	ug/L	100
34) Trichloroethene	6.542	95	748	0.213	ug/L	92
35) Methylcyclohexane	6.767	83	1145	0.247	ug/L #	90
39) cis-1,3-Dichloropropene	7.568	75	732	0.142	ug/L #	77
48) 2-Hexanone	8.684	43	15934	9.093	ug/L #	91
51) Chlorobenzene	9.449	112	3524	0.378	ug/L	95
53) m,p-Xylene	9.700	106	512	0.094	ug/L	72

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

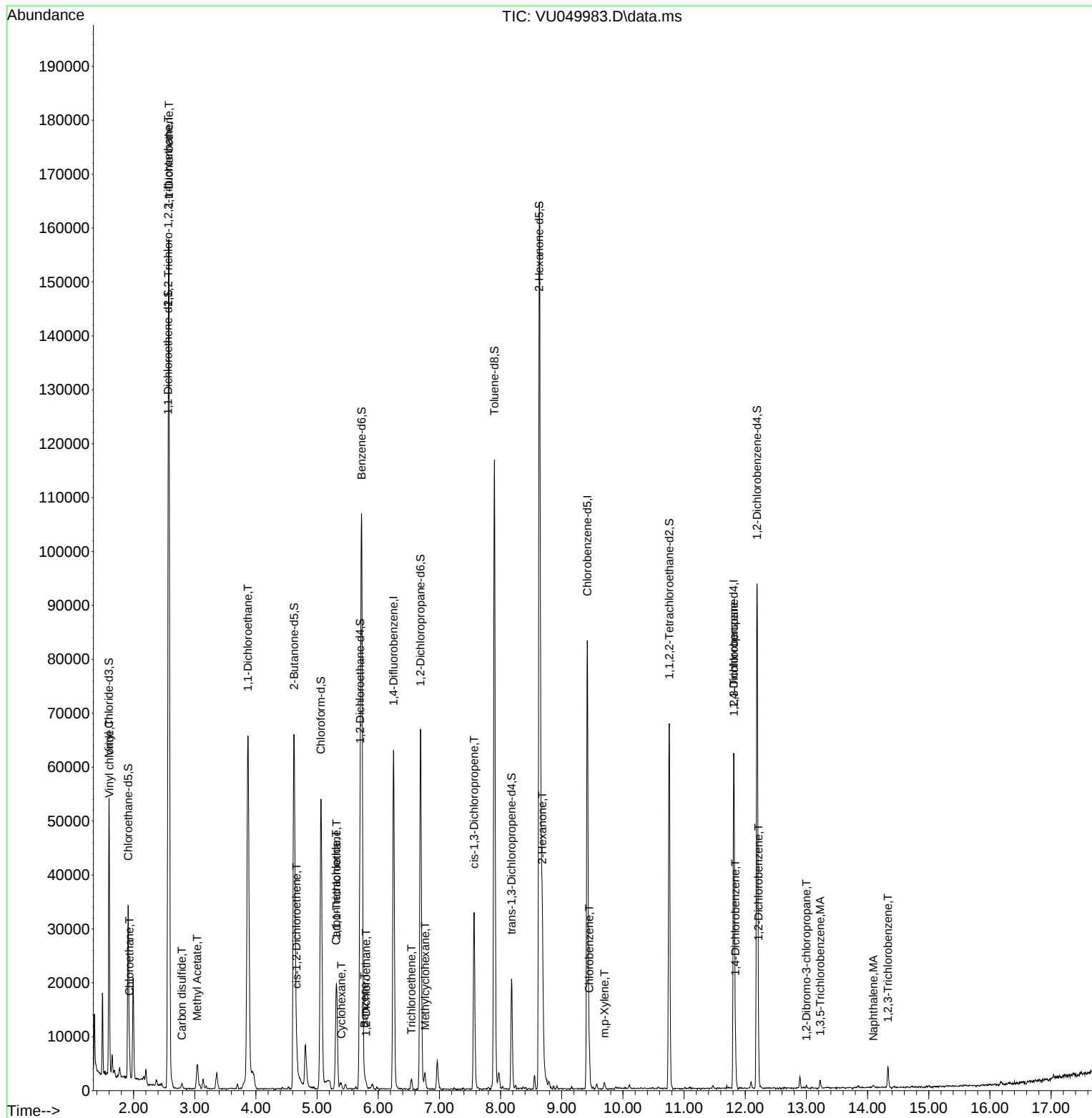
61) 1,2,3-Trichloropropane	11.815	75	3090	1.464	ug/L #	57
65) 1,4-Dichlorobenzene	11.838	146	3502	0.689	ug/L	87
67) 1,2-Dichlorobenzene	12.214	146	799	0.156	ug/L #	72
68) 1,2-Dibromo-3-chloropr...	12.999	75	96	0.230	ug/L	94
69) 1,3,5-Trichlorobenzene	13.227	180	719	0.194	ug/L #	88
71) Naphthalene	14.095	128	751	0.128	ug/L #	69
72) 1,2,3-Trichlorobenzene	14.333	180	1737	0.592	ug/L	93

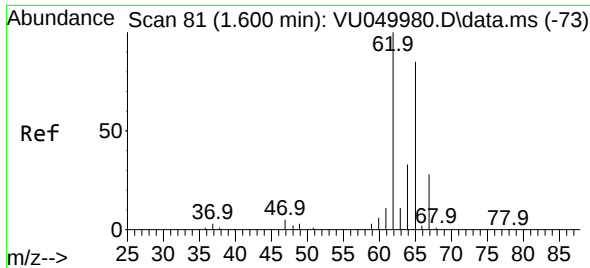
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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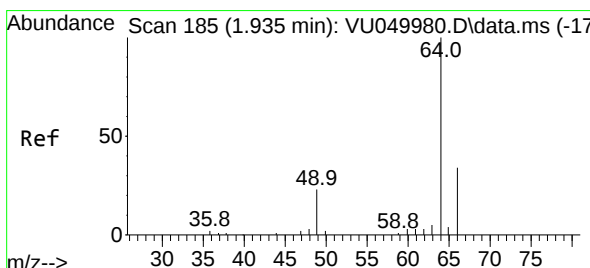
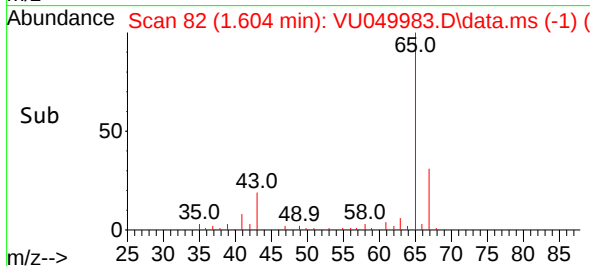
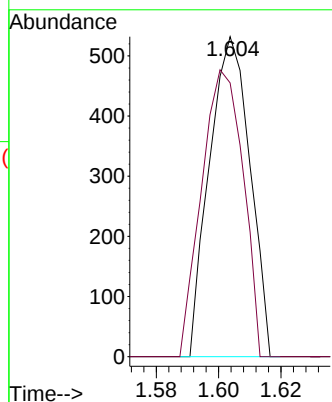
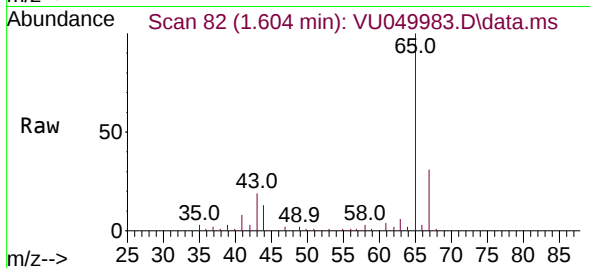




#5
 Vinyl chloride
 Concen: 0.106 ug/L
 RT: 1.604 min Scan# 81
 Delta R.T. 0.003 min
 Lab File: VU049983.D
 Acq: 28 Jul 2022 13:51

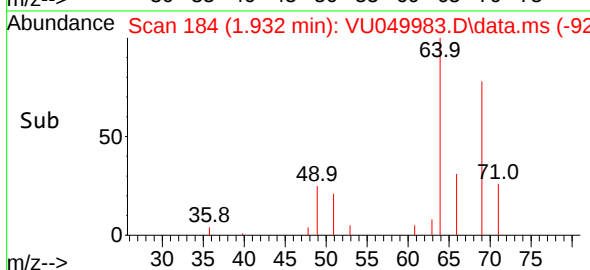
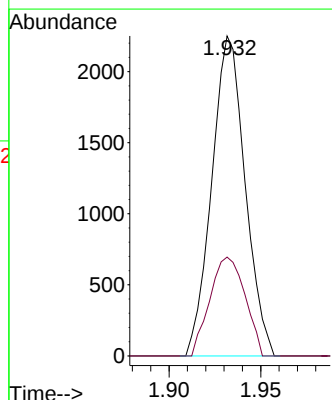
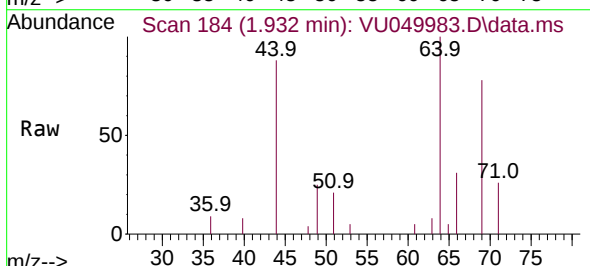
Instrument :
 MSVOA_U
 ClientSampleId :
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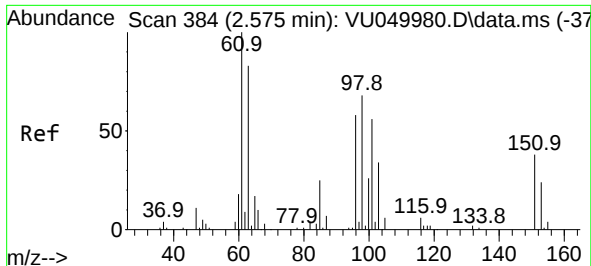
Tgt Ion: 62 Resp: 480
 Ion Ratio Lower Upper
 62 100
 64 85.5 22.5 41.9#



#8
 Chloroethane
 Concen: 1.108 ug/L
 RT: 1.932 min Scan# 184
 Delta R.T. -0.003 min
 Lab File: VU049983.D
 Acq: 28 Jul 2022 13:51

Tgt Ion: 64 Resp: 2844
 Ion Ratio Lower Upper
 64 100
 66 30.9 21.4 39.8





#10

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

Concen: 0.147 ug/L

RT: 2.568 min Scan# 382

Delta R.T. -0.006 min

Lab File: VU049983.D

Acq: 28 Jul 2022 13:51

Instrument :

MSVOA_U

ClientSampleId :

GBJ27

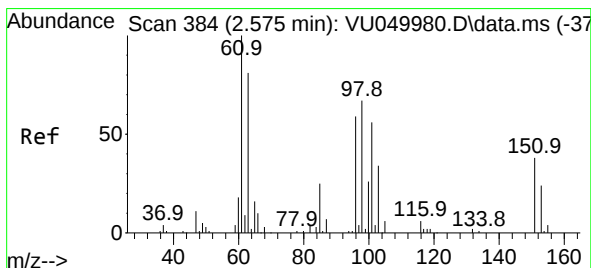
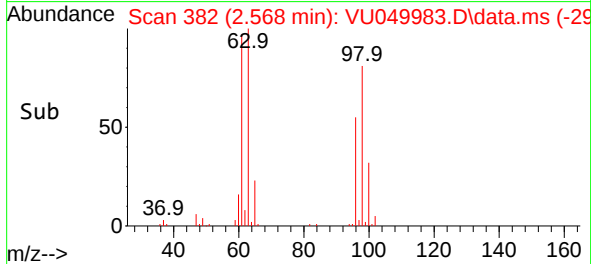
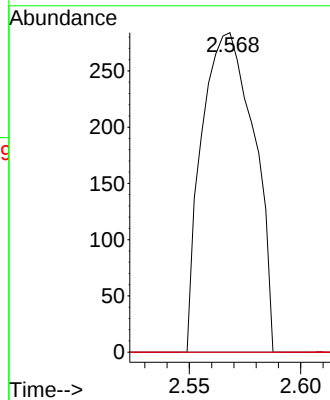
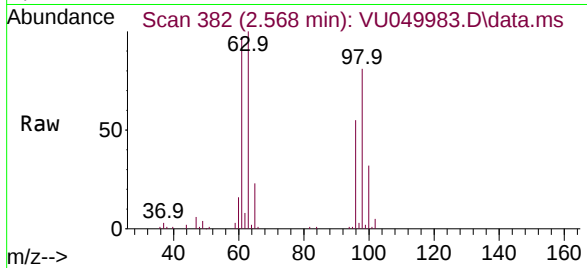
Tgt Ion:101 Resp: 462

Ion Ratio Lower Upper

101 100

85 14.3 34.1 51.1#

151 0.0 56.6 85.0#



#12

1,1-Dichloroethene

Concen: 15.098 ug/L

RT: 2.578 min Scan# 385

Delta R.T. 0.003 min

Lab File: VU049983.D

Acq: 28 Jul 2022 13:51

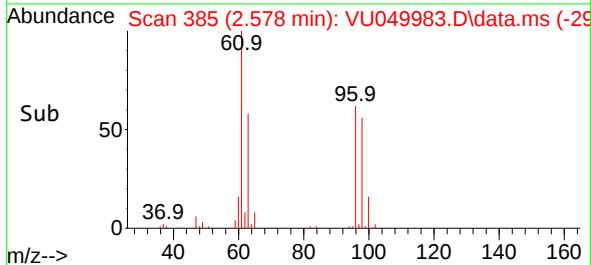
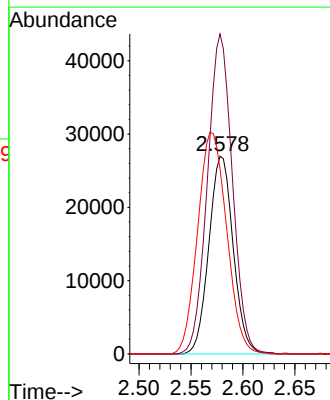
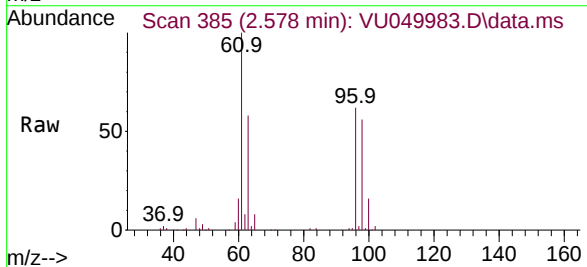
Tgt Ion: 96 Resp: 43883

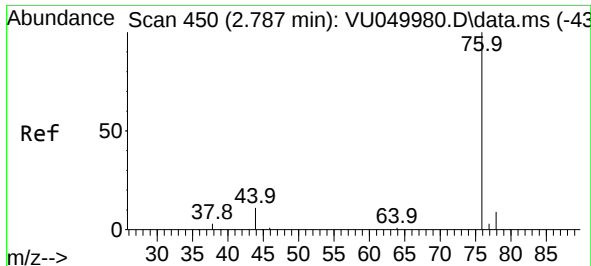
Ion Ratio Lower Upper

96 100

61 161.8 115.7 214.9

63 93.5 84.8 157.4

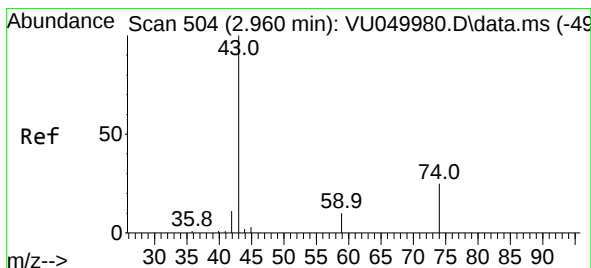
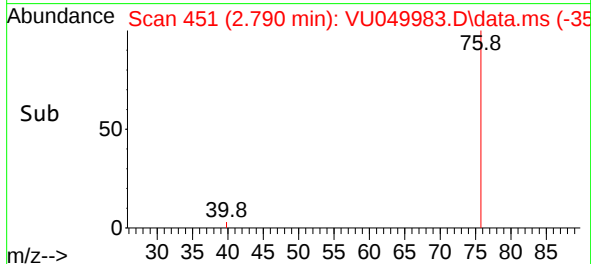
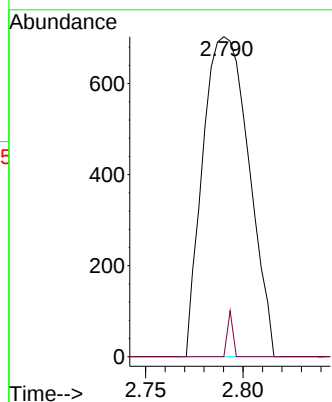
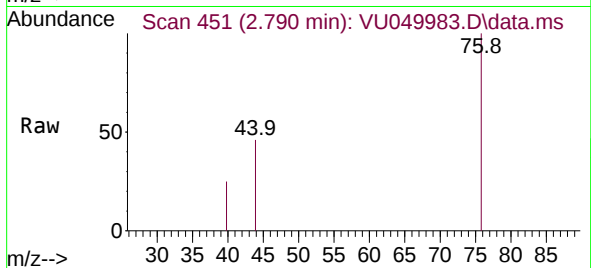




#14
Carbon disulfide
Concen: 0.131 ug/L
RT: 2.790 min Scan# 411
Delta R.T. 0.003 min
Lab File: VU049983.D
Acq: 28 Jul 2022 13:51

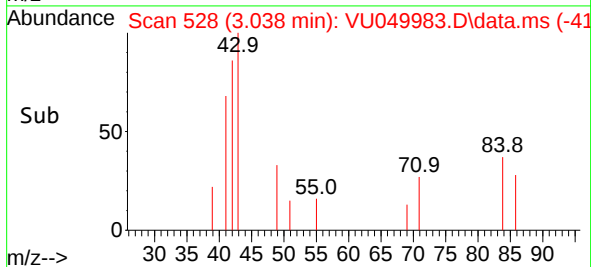
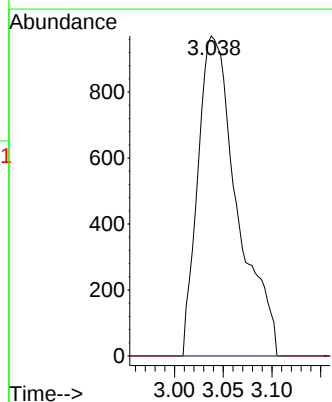
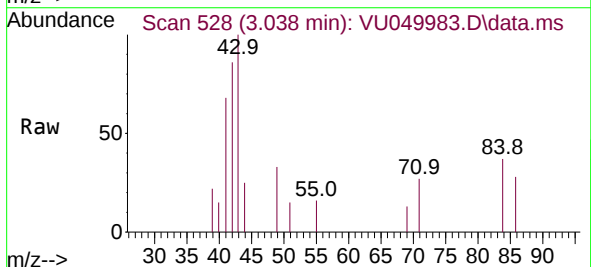
Instrument :
MSVOA_U
ClientSampleId :
GBJ27

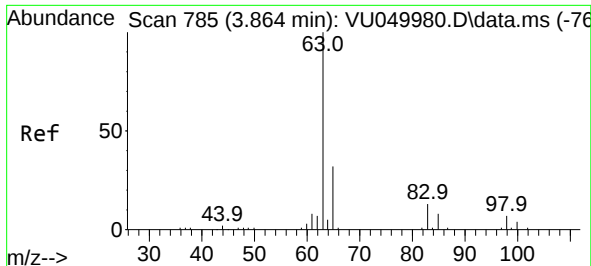
Tgt Ion: 76 Resp: 1154
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#



#15
Methyl Acetate
Concen: 1.854 ug/L
RT: 3.038 min Scan# 528
Delta R.T. 0.077 min
Lab File: VU049983.D
Acq: 28 Jul 2022 13:51

Tgt Ion: 43 Resp: 2721
Ion Ratio Lower Upper
43 100
74 0.0 21.6 32.4#





#19

1,1-Dichloroethane

Concen: 11.419 ug/L

RT: 3.870 min Scan# 71

Delta R.T. 0.006 min

Lab File: VU049983.D

Acq: 28 Jul 2022 13:51

Instrument :

MSVOA_U

ClientSampleId :

GBJ27

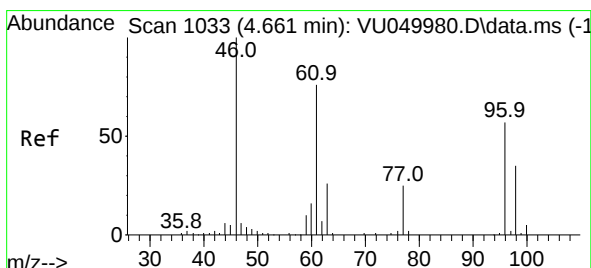
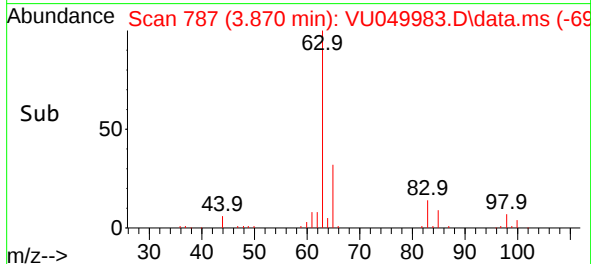
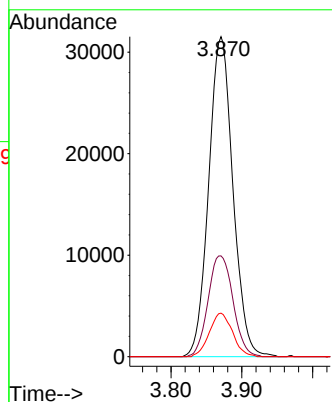
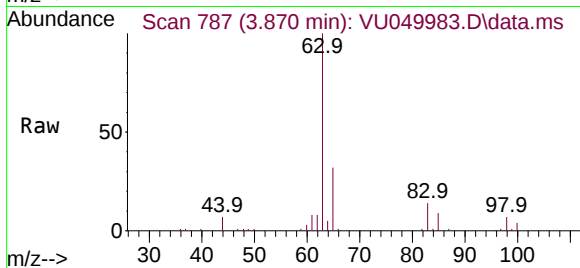
Tgt Ion: 63 Resp: 74833

Ion Ratio Lower Upper

63 100

65 31.5 23.4 43.6

83 13.6 9.4 17.4



#22

cis-1,2-Dichloroethene

Concen: 0.091 ug/L

RT: 4.665 min Scan# 1034

Delta R.T. 0.003 min

Lab File: VU049983.D

Acq: 28 Jul 2022 13:51

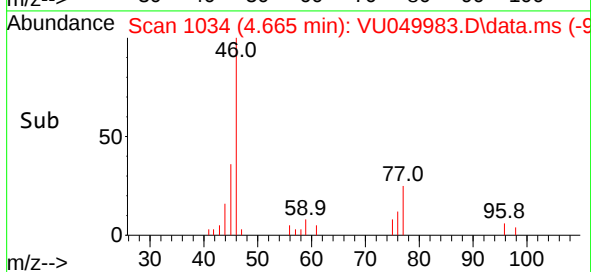
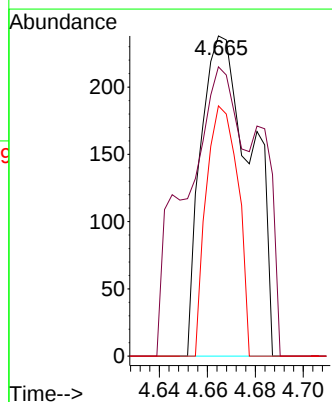
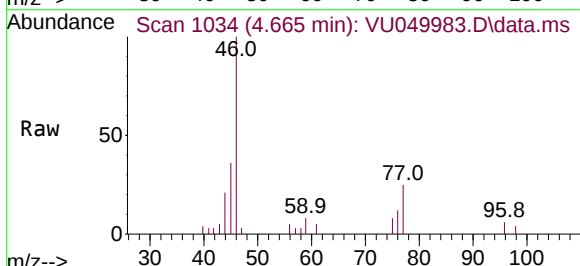
Tgt Ion: 96 Resp: 346

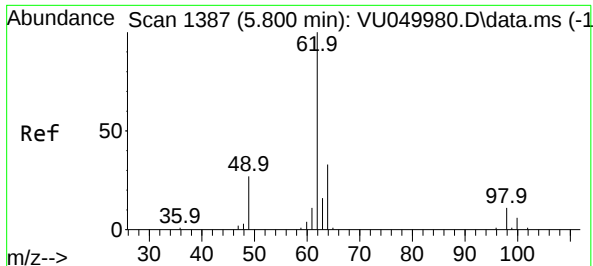
Ion Ratio Lower Upper

96 100

61 90.3 87.2 161.9

98 78.2 44.7 83.1

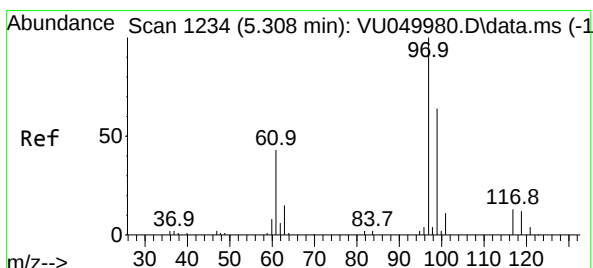
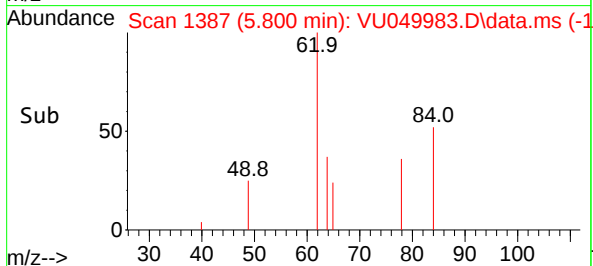
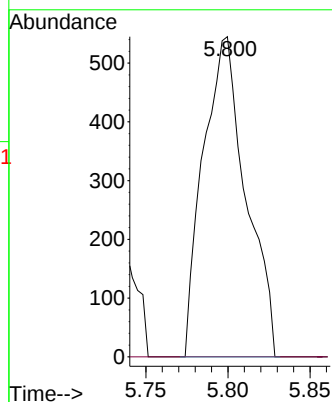
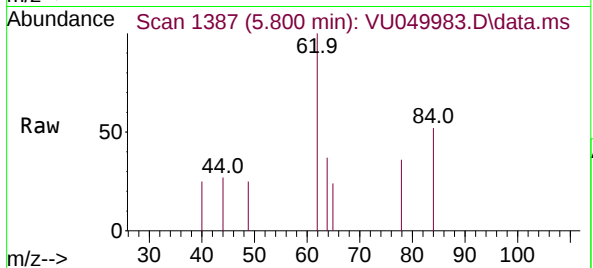




#27
1,2-Dichloroethane
Concen: 0.240 ug/L
RT: 5.800 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU049983.D
Acq: 28 Jul 2022 13:51

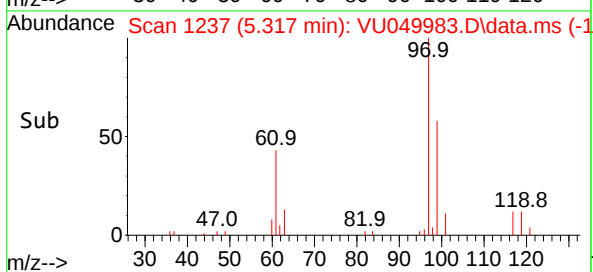
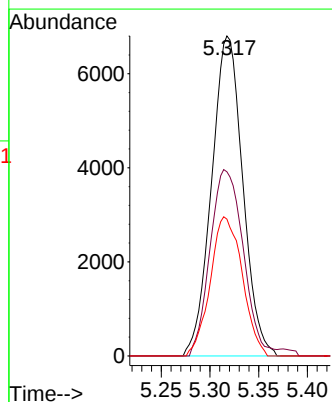
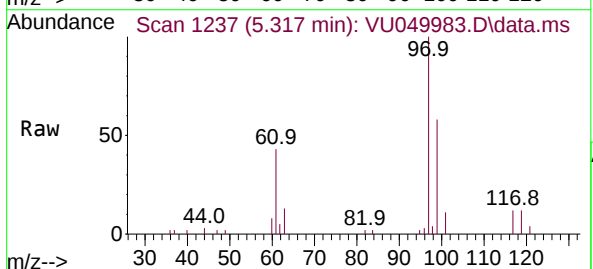
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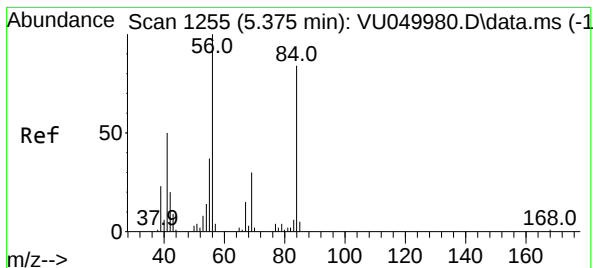
Tgt Ion: 62 Resp: 985
Ion Ratio Lower Upper
62 100
98 0.0 7.9 11.9#



#29
1,1,1-Trichloroethane
Concen: 2.882 ug/L
RT: 5.317 min Scan# 1237
Delta R.T. 0.010 min
Lab File: VU049983.D
Acq: 28 Jul 2022 13:51

Tgt Ion: 97 Resp: 15138
Ion Ratio Lower Upper
97 100
99 62.1 52.0 78.0
61 44.6 35.0 52.6





#30

Cyclohexane

Concen: 0.155 ug/L

RT: 5.398 min Scan# 11

Delta R.T. 0.023 min

Lab File: VU049983.D

Acq: 28 Jul 2022 13:51

Instrument :

MSVOA_U

ClientSampleId :

GBJ27

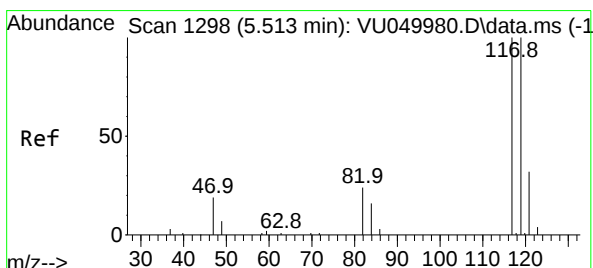
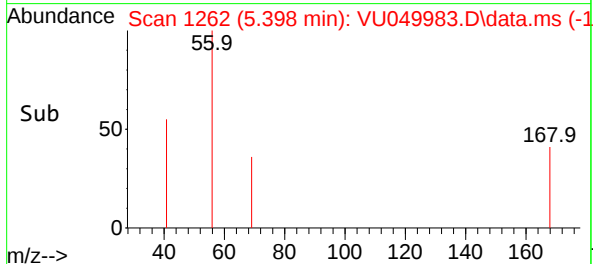
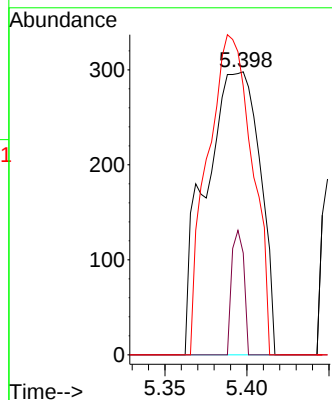
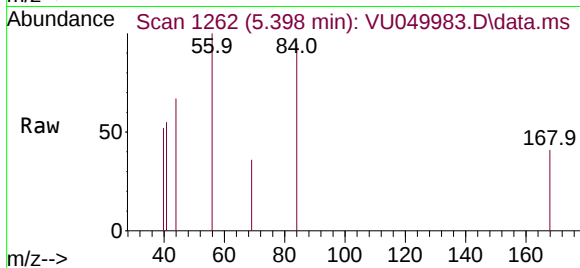
Tgt Ion: 56 Resp: 685

Ion Ratio Lower Upper

56 100

69 9.8 25.1 37.7#

84 93.0 70.1 105.1



#31

Carbon tetrachloride

Concen: 0.454 ug/L

RT: 5.311 min Scan# 1235

Delta R.T. -0.202 min

Lab File: VU049983.D

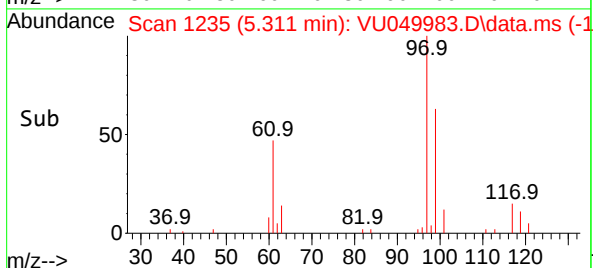
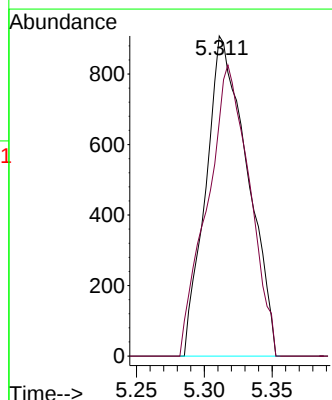
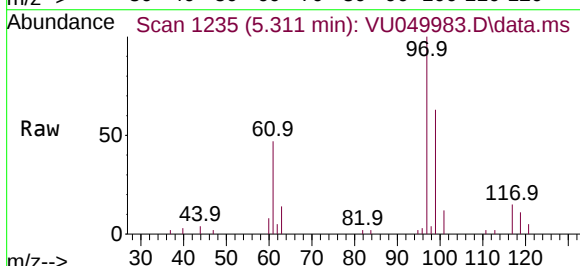
Acq: 28 Jul 2022 13:51

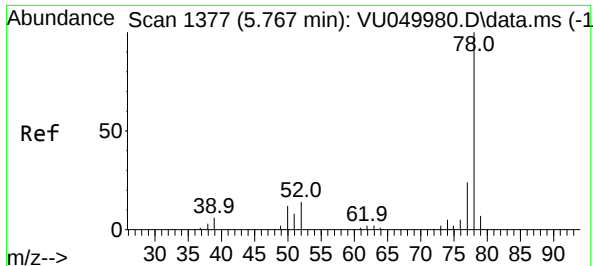
Tgt Ion: 117 Resp: 1937

Ion Ratio Lower Upper

117 100

119 92.3 77.8 116.6

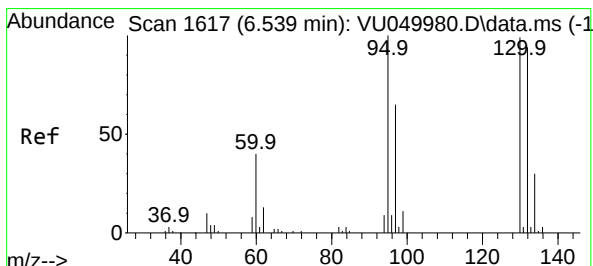
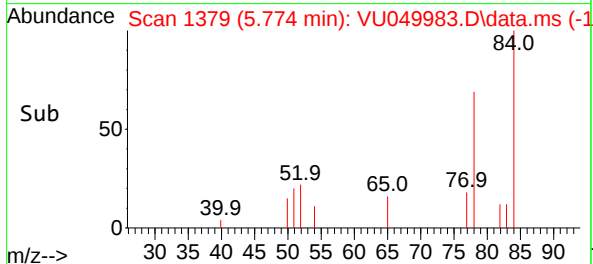
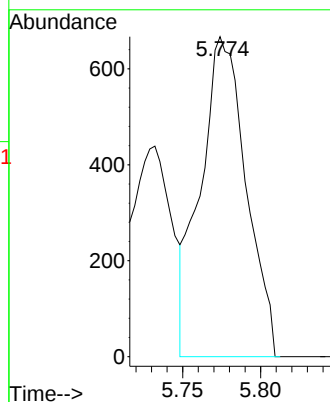
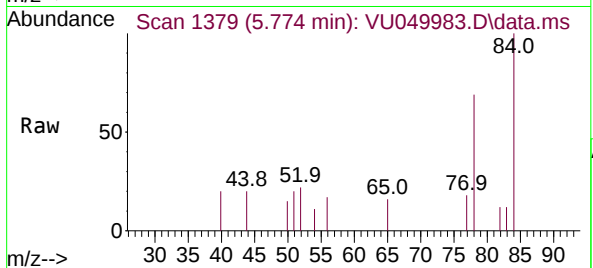




#33
Benzene
Concen: 0.094 ug/L
RT: 5.774 min Scan# 11
Delta R.T. 0.007 min
Lab File: VU049983.D
Acq: 28 Jul 2022 13:51

Instrument :
MSVOA_U
ClientSampleId :
GBJ27

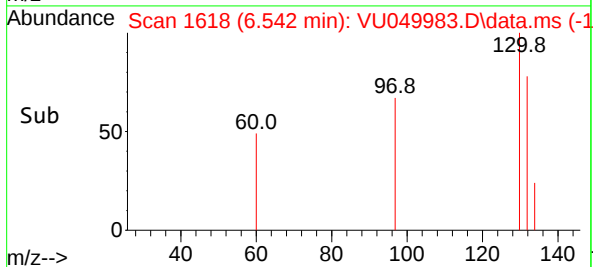
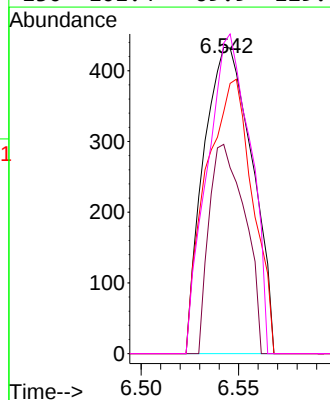
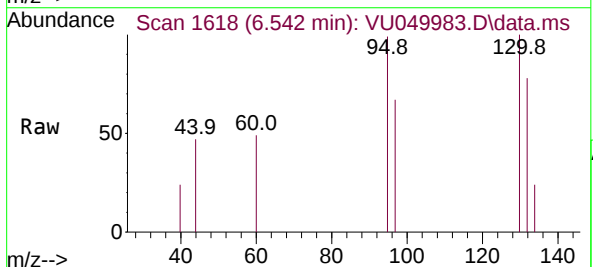
Tgt Ion: 78 Resp: 1361

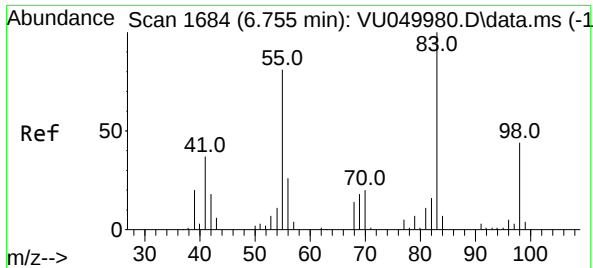


#34
Trichloroethene
Concen: 0.213 ug/L
RT: 6.542 min Scan# 1618
Delta R.T. 0.003 min
Lab File: VU049983.D
Acq: 28 Jul 2022 13:51

Tgt Ion: 95 Resp: 748

Ion	Ratio	Lower	Upper
95	100		
97	68.4	45.6	84.8
132	79.0	66.8	124.2
130	101.4	69.9	129.7





#35

Methylcyclohexane

Concen: 0.247 ug/L

RT: 6.767 min Scan# 1

Delta R.T. 0.013 min

Lab File: VU049983.D

Acq: 28 Jul 2022 13:51

Instrument :

MSVOA_U

ClientSampleId :

GBJ27

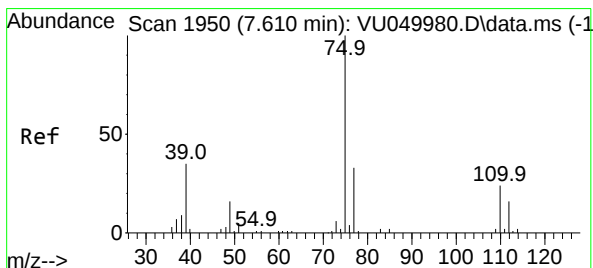
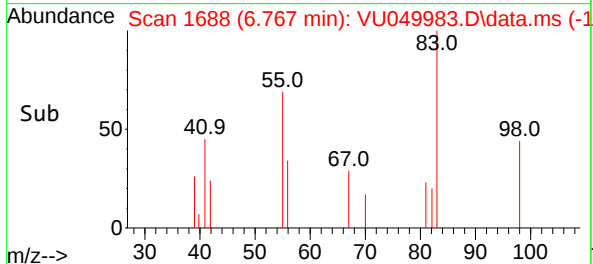
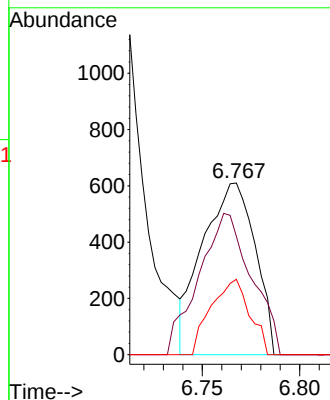
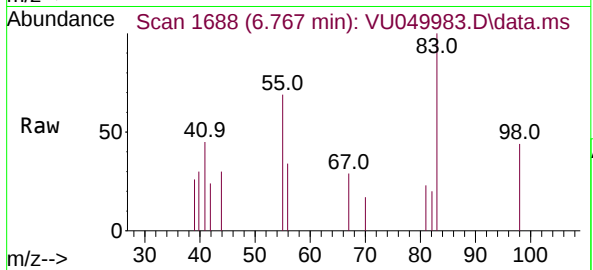
Tgt Ion: 83 Resp: 1145

Ion Ratio Lower Upper

83 100

55 82.3 61.6 92.4

98 32.3 34.8 52.2#



#39

cis-1,3-Dichloropropene

Concen: 0.142 ug/L

RT: 7.568 min Scan# 1937

Delta R.T. -0.042 min

Lab File: VU049983.D

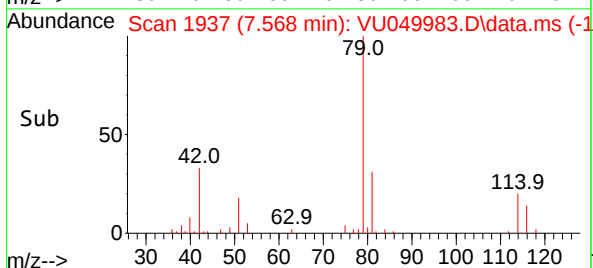
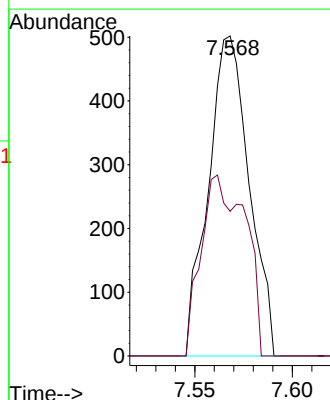
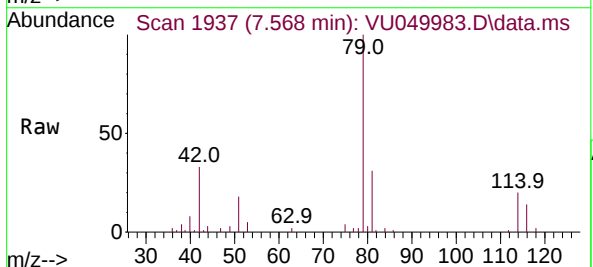
Acq: 28 Jul 2022 13:51

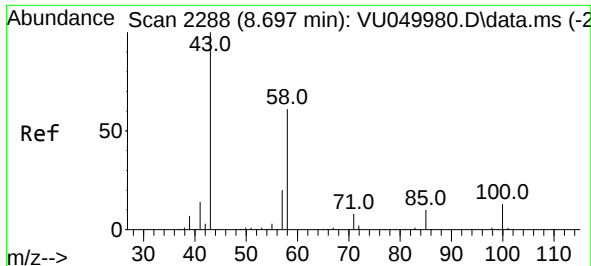
Tgt Ion: 75 Resp: 732

Ion Ratio Lower Upper

75 100

77 45.2 22.5 41.9#

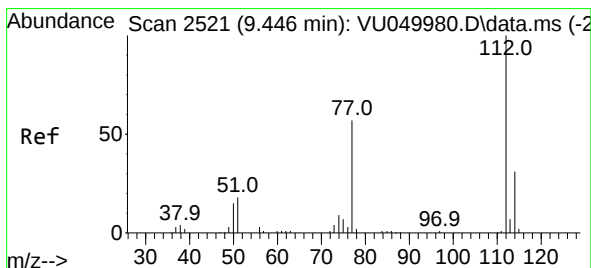
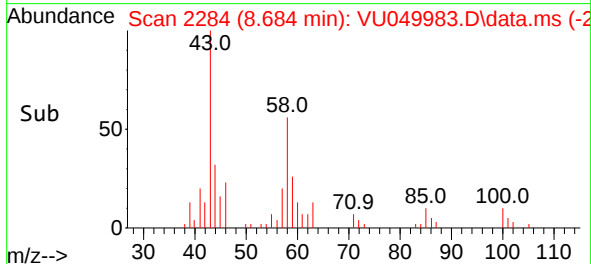
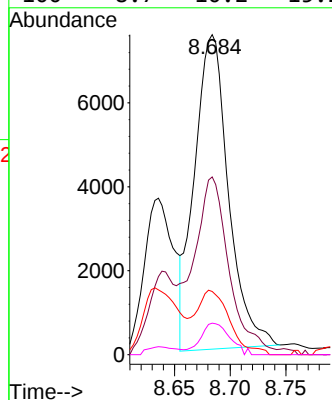
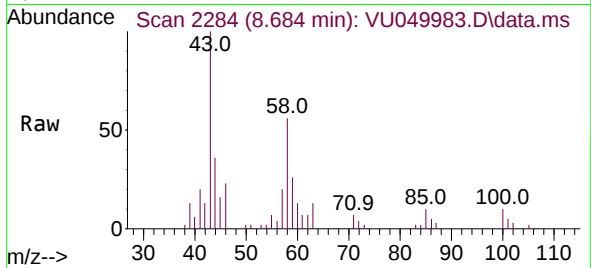




#48
2-Hexanone
Concen: 9.093 ug/L
RT: 8.684 min Scan# 21
Delta R.T. -0.013 min
Lab File: VU049983.D
Acq: 28 Jul 2022 13:51

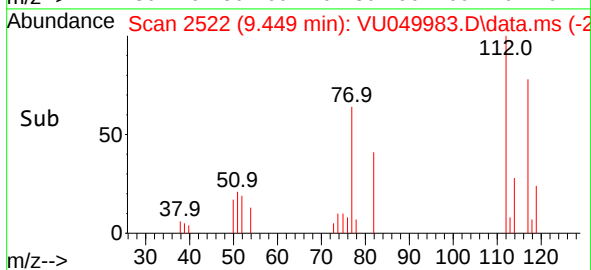
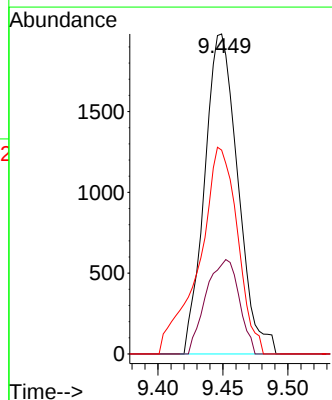
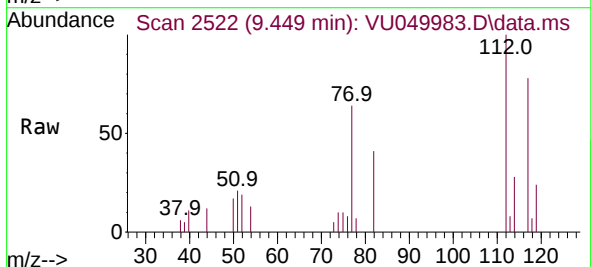
Instrument :
MSVOA_U
ClientSampleId :
GBJ27

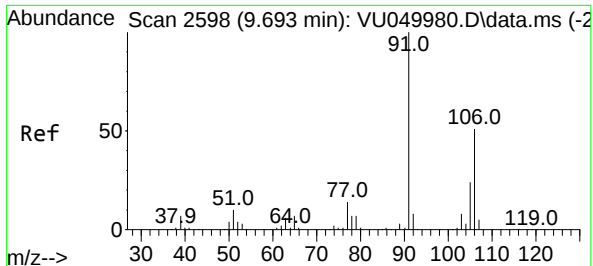
Tgt Ion: 43	Resp:	15934
Ion	Ratio	Lower Upper
43	100	
58	52.9	49.4 74.0
57	20.4	17.0 25.4
100	8.7	10.2 15.2#



#51
Chlorobenzene
Concen: 0.378 ug/L
RT: 9.449 min Scan# 2522
Delta R.T. 0.003 min
Lab File: VU049983.D
Acq: 28 Jul 2022 13:51

Tgt Ion: 112	Resp:	3524
Ion	Ratio	Lower Upper
112	100	
114	27.9	22.4 41.6
77	63.7	48.2 72.4

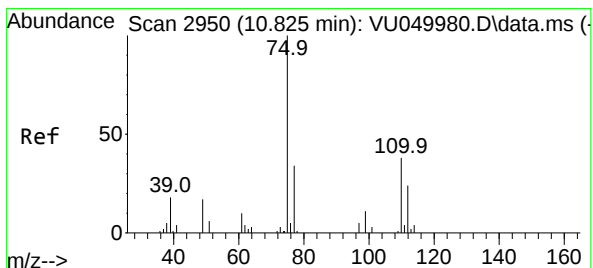
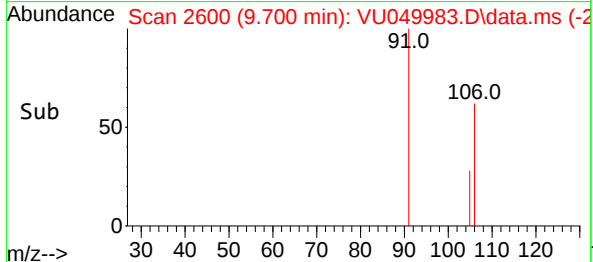
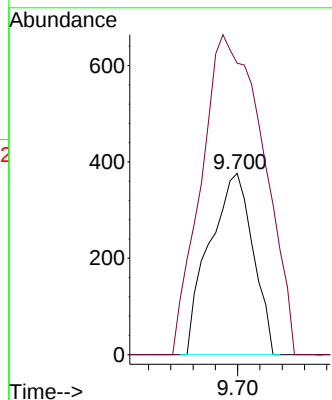
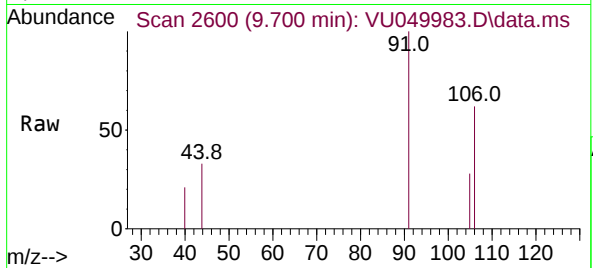




#53
m,p-Xylene
Concen: 0.094 ug/L
RT: 9.700 min Scan# 21
Delta R.T. 0.006 min
Lab File: VU049983.D
Acq: 28 Jul 2022 13:51

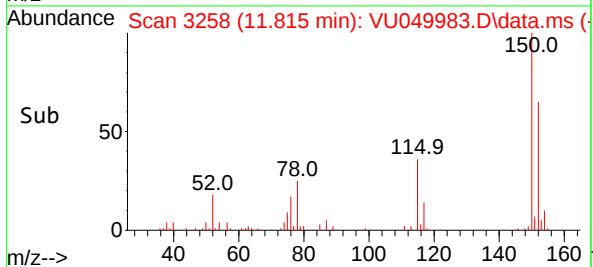
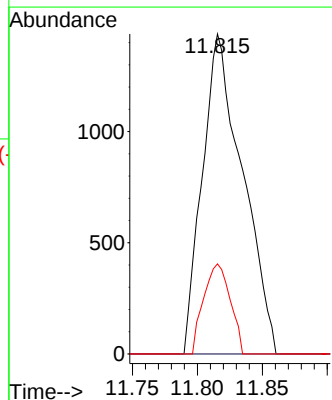
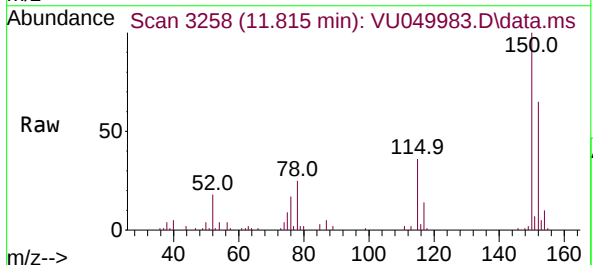
Instrument :
MSVOA_U
ClientSampleId :
GBJ27

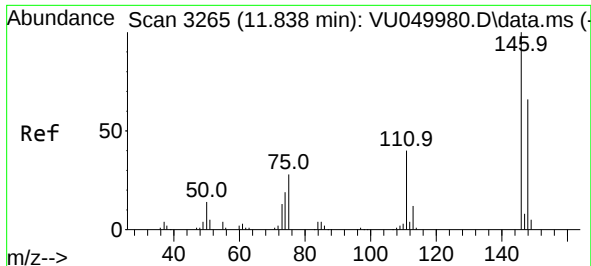
Tgt Ion:106 Resp: 512
Ion Ratio Lower Upper
106 100
91 160.9 142.4 264.4



#61
1,2,3-Trichloropropane
Concen: 1.464 ug/L
RT: 11.815 min Scan# 3258
Delta R.T. 0.990 min
Lab File: VU049983.D
Acq: 28 Jul 2022 13:51

Tgt Ion: 75 Resp: 3090
Ion Ratio Lower Upper
75 100
110 0.0 28.1 42.1#
77 18.6 24.7 37.1#

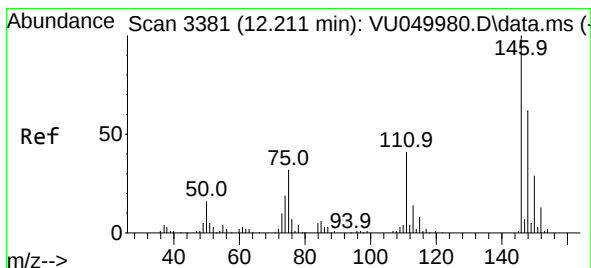
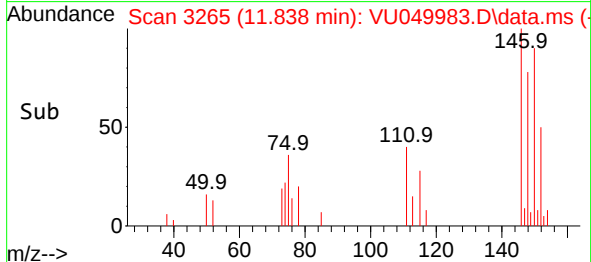
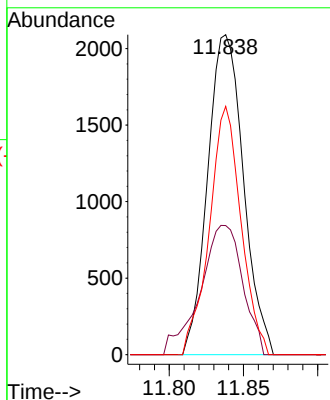
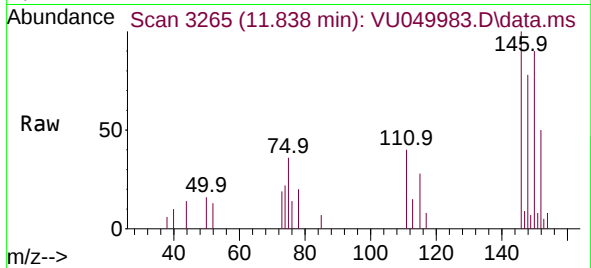




#65
1,4-Dichlorobenzene
Concen: 0.689 ug/L
RT: 11.838 min Scan# 31
Delta R.T. 0.000 min
Lab File: VU049983.D
Acq: 28 Jul 2022 13:51

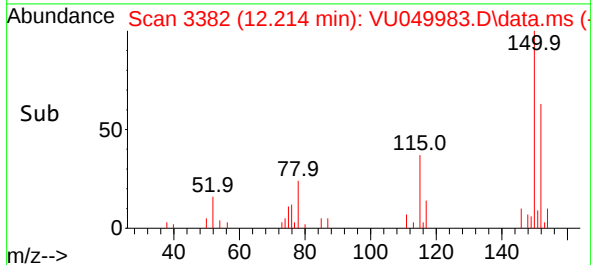
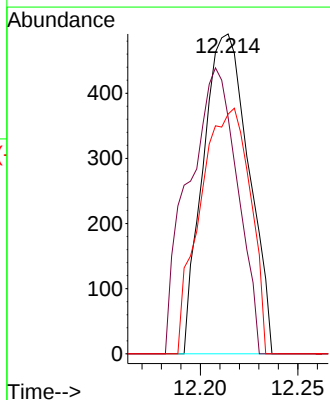
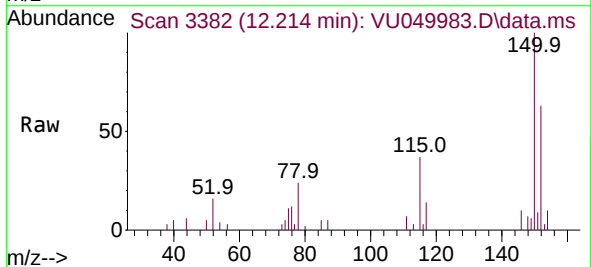
Instrument :
MSVOA_U
ClientSampleId :
GBJ27

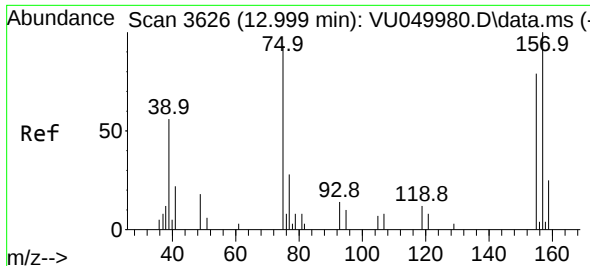
Tgt Ion:146	Resp:	3502
Ion Ratio	Lower	Upper
146	100	
111	40.4	26.4 49.0
148	77.6	44.3 82.3



#67
1,2-Dichlorobenzene
Concen: 0.156 ug/L
RT: 12.214 min Scan# 3382
Delta R.T. 0.003 min
Lab File: VU049983.D
Acq: 28 Jul 2022 13:51

Tgt Ion:146	Resp:	799
Ion Ratio	Lower	Upper
146	100	
111	73.9	33.4 50.2#
148	74.9	51.3 76.9

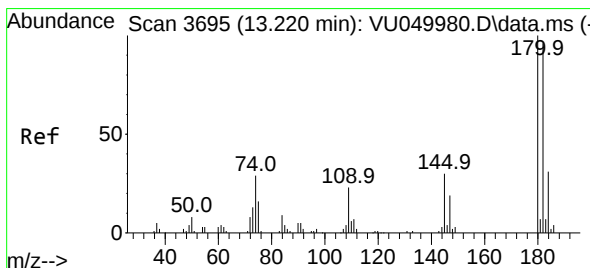
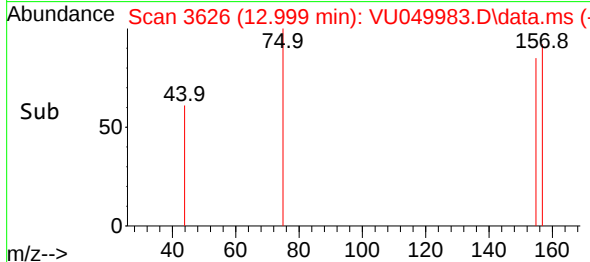
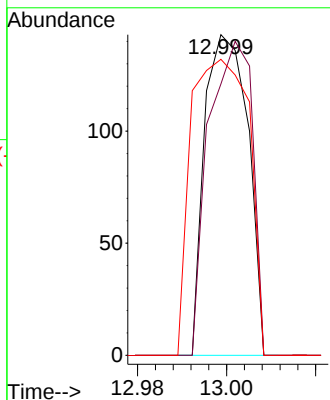
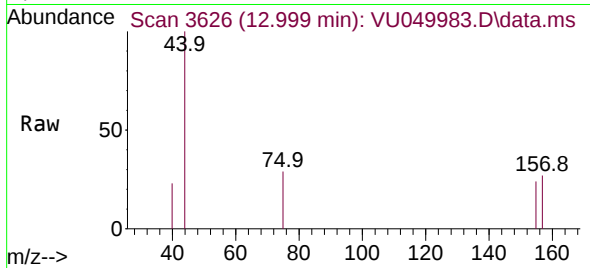




#68
 1,2-Dibromo-3-chloropropane
 Concen: 0.230 ug/L
 RT: 12.999 min Scan# 3626
 Delta R.T. 0.000 min
 Lab File: VU049983.D
 Acq: 28 Jul 2022 13:51

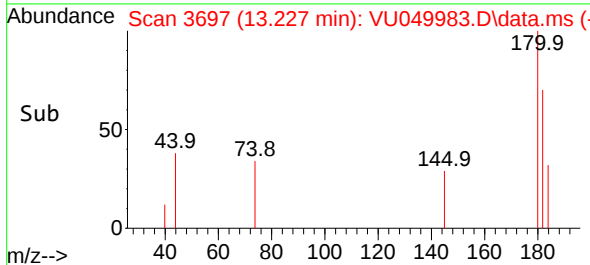
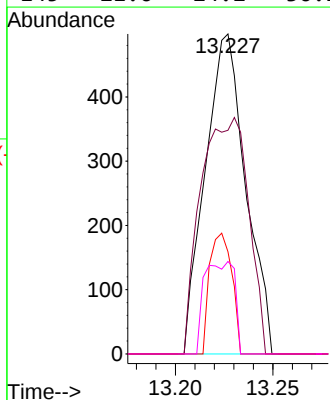
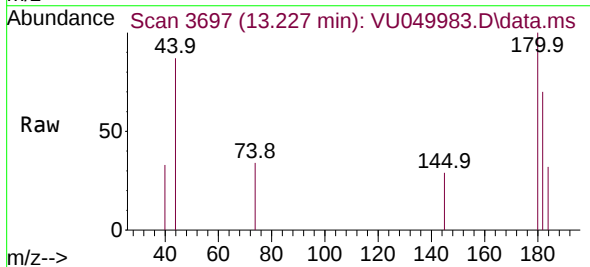
Instrument :
 MSVOA_U
 ClientSampleId :
 GBJ27

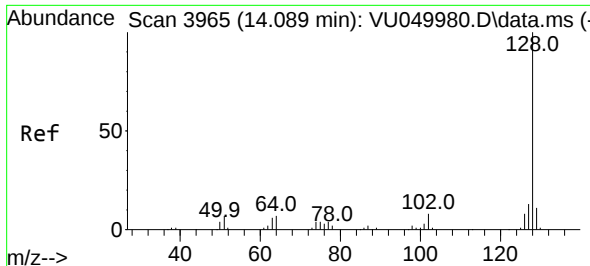
Tgt Ion: 75 Resp: 96
 Ion Ratio Lower Upper
 75 100
 155 84.6 59.4 89.0
 157 92.3 73.8 110.6



#69
 1,3,5-Trichlorobenzene
 Concen: 0.194 ug/L
 RT: 13.227 min Scan# 3697
 Delta R.T. 0.006 min
 Lab File: VU049983.D
 Acq: 28 Jul 2022 13:51

Tgt Ion: 180 Resp: 719
 Ion Ratio Lower Upper
 180 100
 182 87.1 77.2 115.8
 184 20.6 23.9 35.9#
 145 21.6 24.2 36.2#

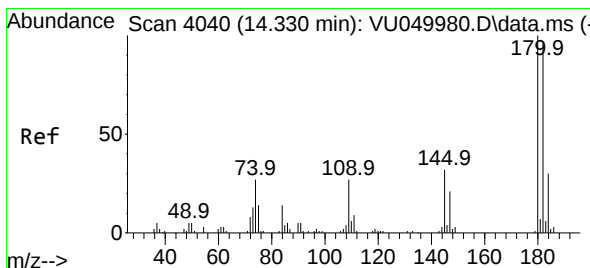
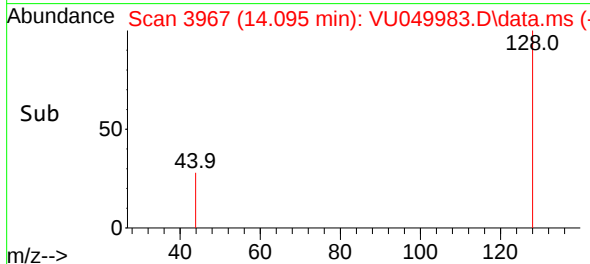
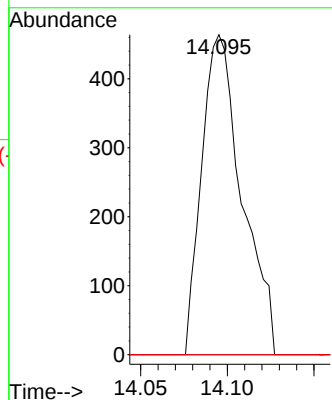
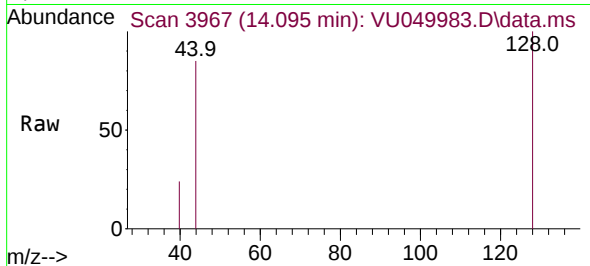




#71
Naphthalene
Concen: 0.128 ug/L
RT: 14.095 min Scan# 3965
Delta R.T. 0.006 min
Lab File: VU049983.D
Acq: 28 Jul 2022 13:51

Instrument :
MSVOA_U
ClientSampleId :
GBJ27

Tgt Ion:	128	Resp:	751
Ion	Ratio	Lower	Upper
128	100		
129	0.0	8.5	12.7#
127	0.0	10.3	15.5#



#72
1,2,3-Trichlorobenzene
Concen: 0.592 ug/L
RT: 14.333 min Scan# 4041
Delta R.T. 0.003 min
Lab File: VU049983.D
Acq: 28 Jul 2022 13:51

Tgt Ion:	180	Resp:	1737
Ion	Ratio	Lower	Upper
180	100		
182	90.0	77.0	115.4
145	28.5	26.3	39.5

