

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\U072822\
 Data File : U049984.D
 Acq On : 28 Jul 2022 14:16
 Operator : SY/MD
 Sample : N3922-01
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C0C54

Quant Time: Jul 29 02:36:25 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	97537	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.417	117	97003	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	38942	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.594	65	35504	4.240	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	84.800%
7) Chloroethane-d5	1.909	69	28381	4.718	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	94.400%
11) 1,1-Dichloroethene-d2	2.565	65	12877	4.462	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	89.200%
20) 2-Butanone-d5	4.642	46	99435	53.339	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	106.680%
24) Chloroform-d	5.064	84	70460	5.084	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.600%
26) 1,2-Dichloroethane-d4	5.703	65	34929	5.002	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.000%
32) Benzene-d6	5.729	84	131536	4.589	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.800%
36) 1,2-Dichloropropane-d6	6.690	67	44303	4.718	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	94.400%
41) Toluene-d8	7.899	98	106685	4.187	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	83.800%
43) trans-1,3-Dichloroprop...	8.182	79	15200	4.618	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	92.400%
46) 2-Hexanone-d5	8.636	63	57347	46.546	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	93.100%
56) 1,1,2,2-Tetrachloroeth...	10.758	84	38718	4.907	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	98.200%
66) 1,2-Dichlorobenzene-d4	12.195	152	37240	5.156	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	103.200%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.385	85	48944	6.501	ug/L	100
3) Chloromethane	1.520	50	7490	0.840	ug/L	95
5) Vinyl chloride	1.601	62	124096	14.802	ug/L	99
9) Trichlorofluoromethane	2.138	101	762	0.077	ug/L	99
10) 1,1,2-Trichloro-1,2,2-...	2.562	101	446	0.077	ug/L #	21
12) 1,1-Dichloroethene	2.575	96	28364	5.269	ug/L	95
17) Methyl tert-butyl Ether	3.363	73	2825	0.188	ug/L	96
18) trans-1,2-Dichloroethene	3.353	96	16169	2.733	ug/L	95
19) 1,1-Dichloroethane	3.871	63	21666	1.785	ug/L	99
22) cis-1,2-Dichloroethene	4.671	96	1093	0.155	ug/L #	1
25) Chloroform	5.089	83	99770	7.335	ug/L	99
29) 1,1,1-Trichloroethane	5.314	97	23953	2.325	ug/L	99
31) Carbon tetrachloride	5.527	117	685	0.082	ug/L	100
34) Trichloroethene	6.543	95	24519	3.563	ug/L	97
35) Methylcyclohexane	6.690	83	10234	1.127	ug/L #	19
37) 1,2-Dichloropropane	6.790	63	69882	8.956	ug/L	100
38) Bromodichloromethane	7.105	83	35345	3.744	ug/L	99
47) Tetrachloroethene	8.552	164	24618	4.970	ug/L	95
48) 2-Hexanone	8.687	43	15329	4.460	ug/L #	90

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

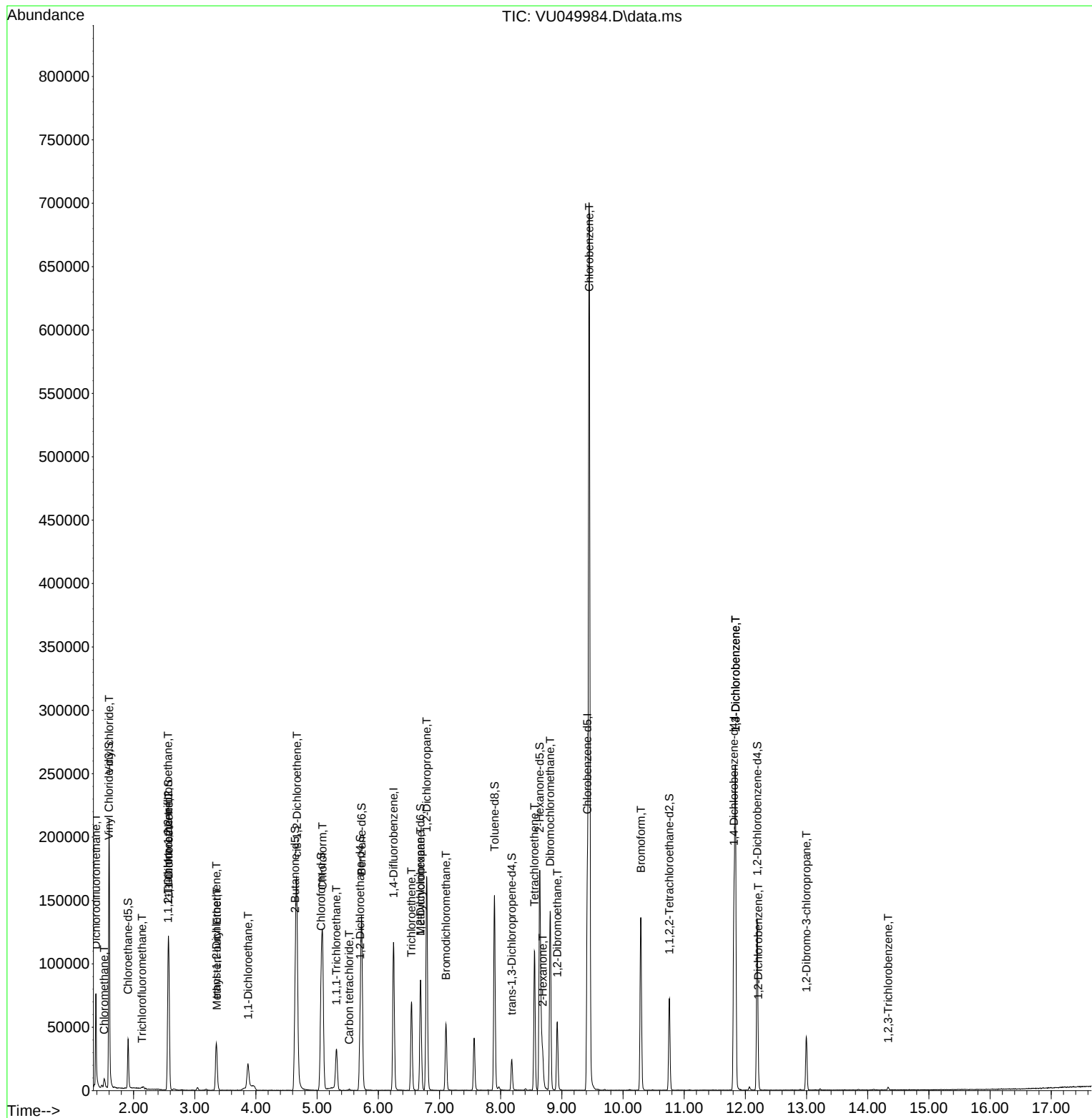
49) Dibromochloromethane	8.809	129	75476	11.831	ug/L	99
50) 1,2-Dibromoethane	8.925	107	37116	7.170	ug/L #	94
51) Chlorobenzene	9.446	112	386654	21.158	ug/L	100
59) Bromoform	10.292	173	62668	20.021	ug/L	100
64) 1,3-Dichlorobenzene	11.838	146	101693	9.232	ug/L	96
65) 1,4-Dichlorobenzene	11.838	146	101693	9.330	ug/L	100
67) 1,2-Dichlorobenzene	12.211	146	783	0.072	ug/L #	86
68) 1,2-Dibromo-3-chloropr...	12.996	75	11516	12.891	ug/L	86
72) 1,2,3-Trichlorobenzene	14.336	180	972	0.155	ug/L	93

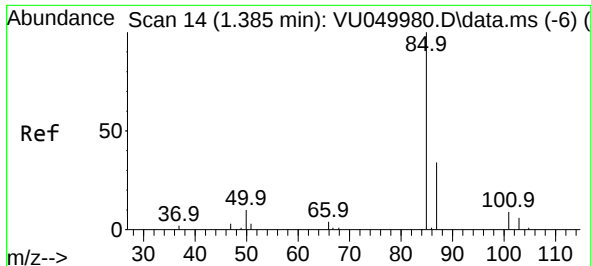
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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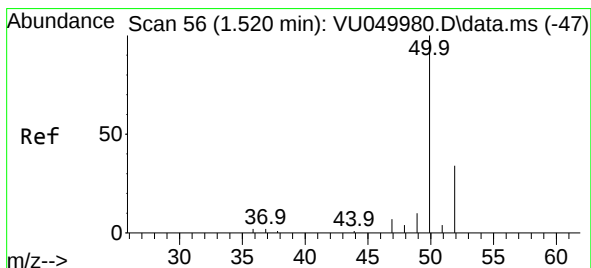
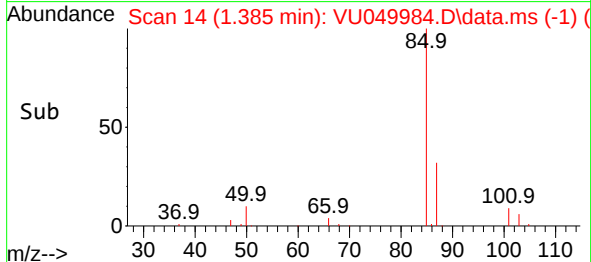
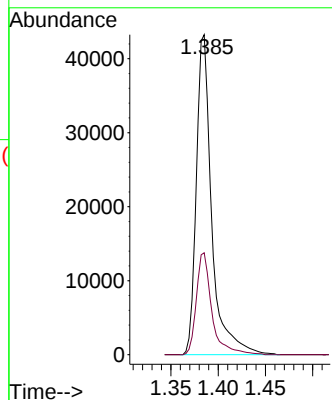
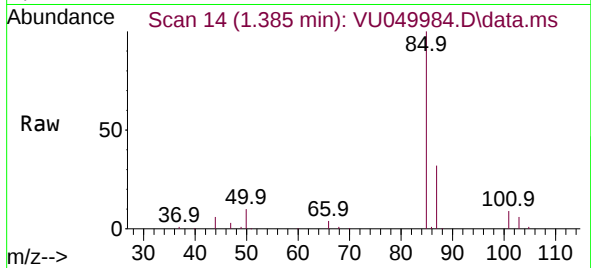




#2
Dichlorodifluoromethane
Concen: 6.501 ug/L
RT: 1.385 min Scan# 14
Delta R.T. 0.000 min
Lab File: VU049984.D
Acq: 28 Jul 2022 14:16

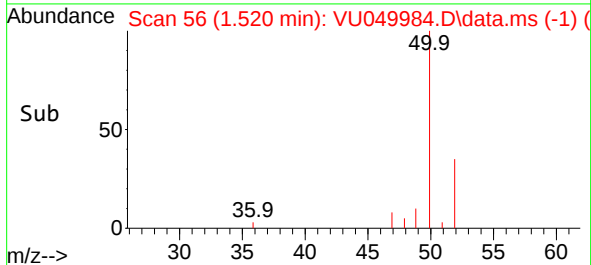
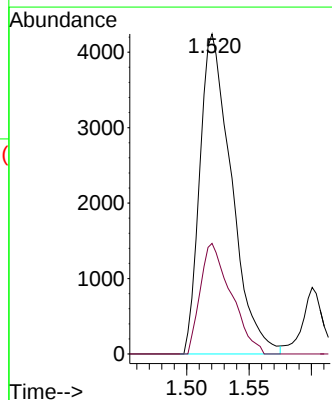
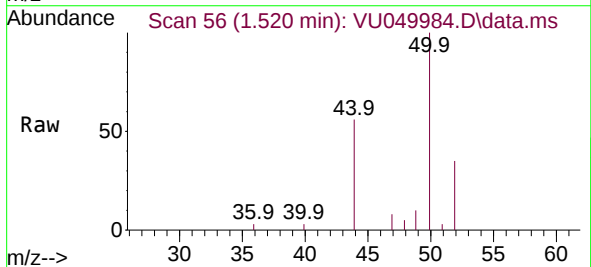
Instrument :
MSVOA_U
ClientSampleId :
C0C54

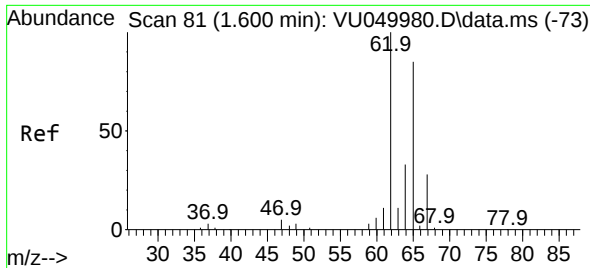
Tgt Ion: 85 Resp: 48944
Ion Ratio Lower Upper
85 100
87 32.1 25.7 38.5



#3
Chloromethane
Concen: 0.840 ug/L
RT: 1.520 min Scan# 56
Delta R.T. 0.000 min
Lab File: VU049984.D
Acq: 28 Jul 2022 14:16

Tgt Ion: 50 Resp: 7490
Ion Ratio Lower Upper
50 100
52 34.6 22.4 41.6

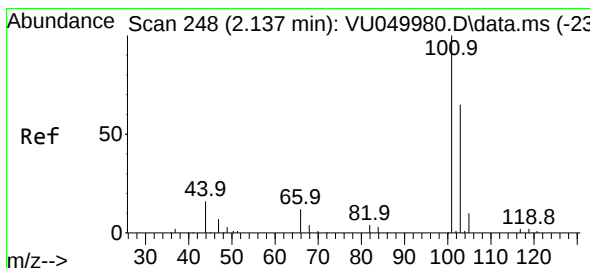
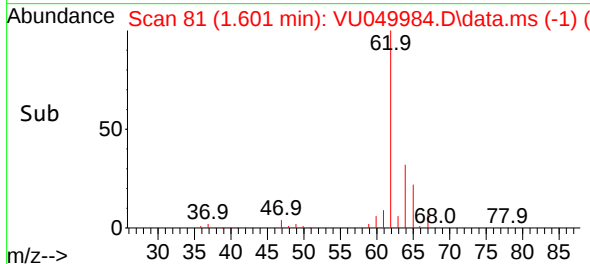
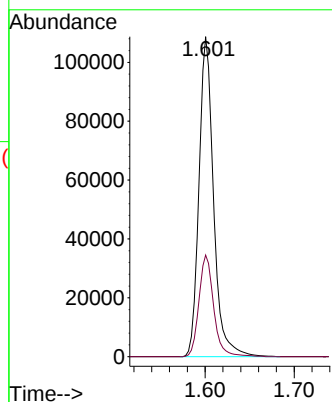
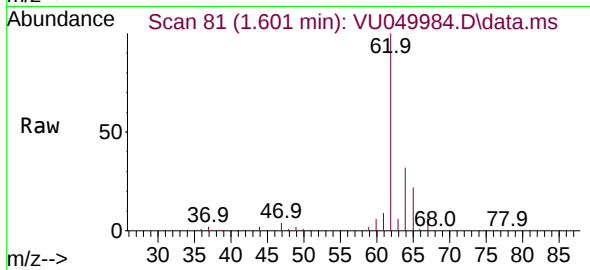




#5
 Vinyl chloride
 Concen: 14.802 ug/L
 RT: 1.601 min Scan# 81
 Delta R.T. 0.000 min
 Lab File: VU049984.D
 Acq: 28 Jul 2022 14:16

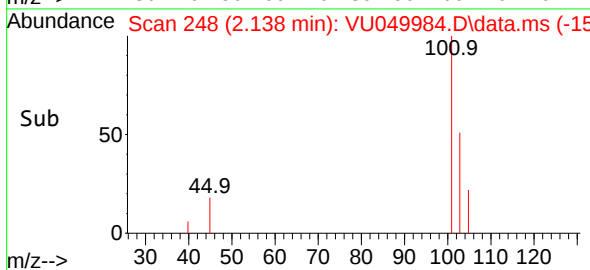
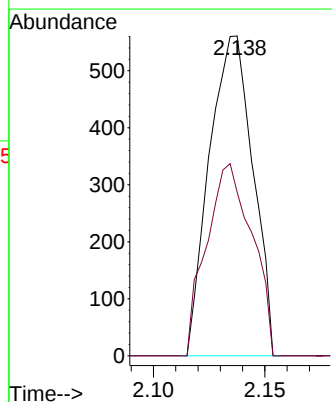
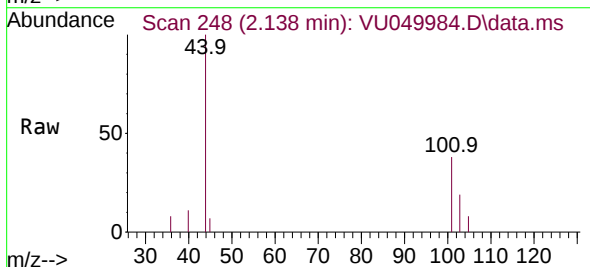
Instrument :
 MSVOA_U
 ClientSampleId :
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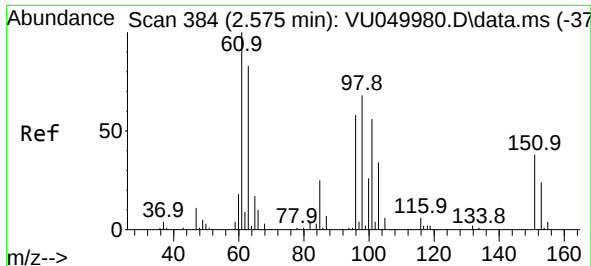
Tgt Ion: 62 Resp: 124096
 Ion Ratio Lower Upper
 62 100
 64 31.7 22.5 41.9



#9
 Trichlorofluoromethane
 Concen: 0.077 ug/L
 RT: 2.138 min Scan# 248
 Delta R.T. 0.000 min
 Lab File: VU049984.D
 Acq: 28 Jul 2022 14:16

Tgt Ion: 101 Resp: 762
 Ion Ratio Lower Upper
 101 100
 103 63.0 51.0 76.6

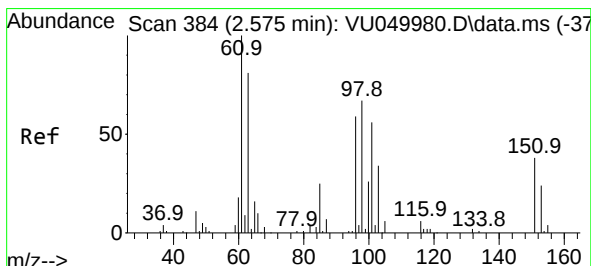
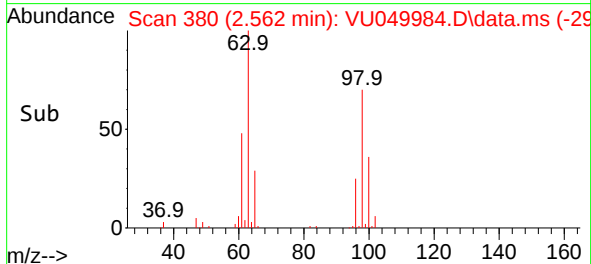
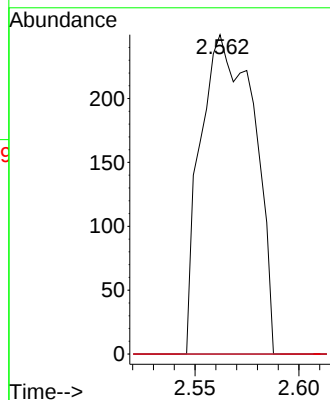
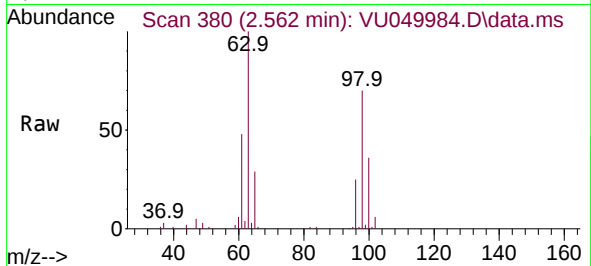




#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.077 ug/L
RT: 2.562 min Scan# 380
Delta R.T. -0.013 min
Lab File: VU049984.D
Acq: 28 Jul 2022 14:16

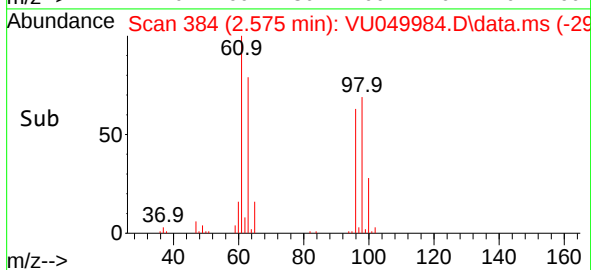
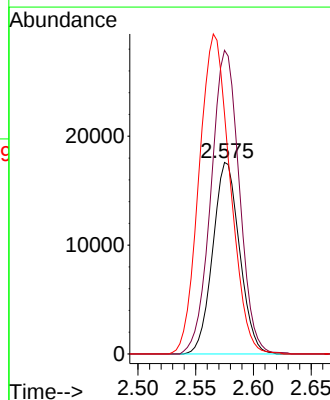
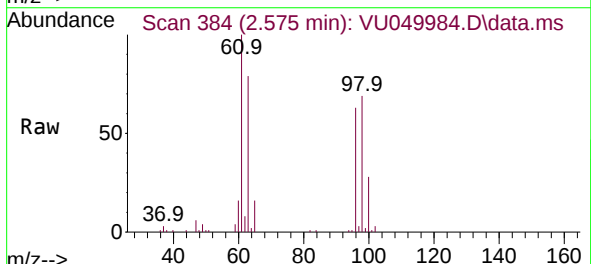
Instrument :
MSVOA_U
ClientSampleId :
C0C54

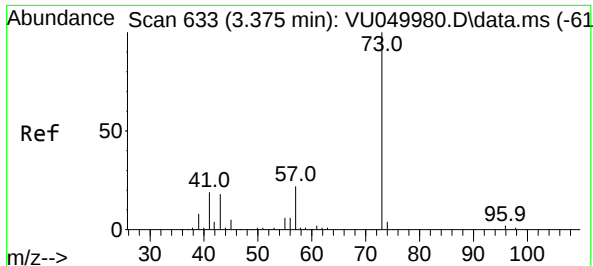
Tgt Ion:101 Resp: 446
Ion Ratio Lower Upper
101 100
85 0.0 34.1 51.1#
151 0.0 56.6 85.0#



#12
1,1-Dichloroethene
Concen: 5.269 ug/L
RT: 2.575 min Scan# 384
Delta R.T. 0.000 min
Lab File: VU049984.D
Acq: 28 Jul 2022 14:16

Tgt Ion: 96 Resp: 28364
Ion Ratio Lower Upper
96 100
61 158.6 115.7 214.9
63 125.5 84.8 157.4





#17

Methyl tert-butyl Ether

Concen: 0.188 ug/L

RT: 3.363 min Scan# 61

Delta R.T. -0.013 min

Lab File: VU049984.D

Acq: 28 Jul 2022 14:16

Instrument :

MSVOA_U

ClientSampleId :

C0C54

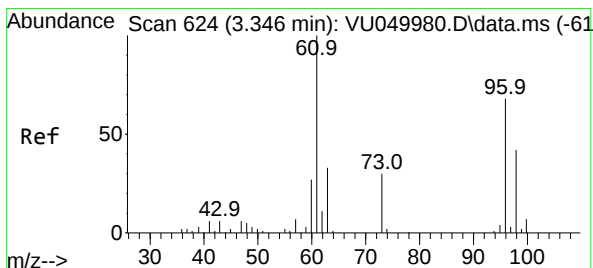
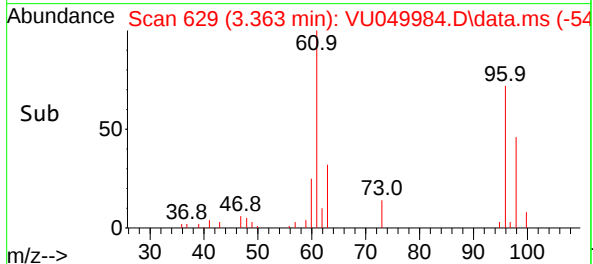
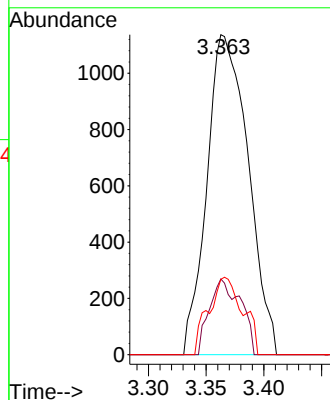
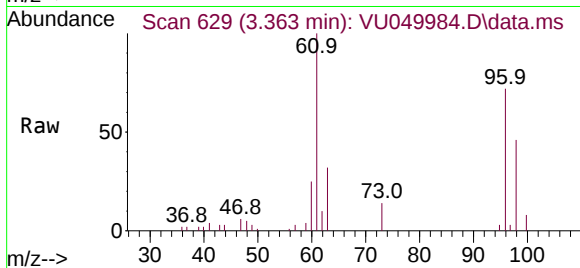
Tgt Ion: 73 Resp: 2825

Ion Ratio Lower Upper

73 100

43 17.9 13.8 20.6

57 20.0 17.9 26.9



#18

trans-1,2-Dichloroethene

Concen: 2.733 ug/L

RT: 3.353 min Scan# 626

Delta R.T. 0.007 min

Lab File: VU049984.D

Acq: 28 Jul 2022 14:16

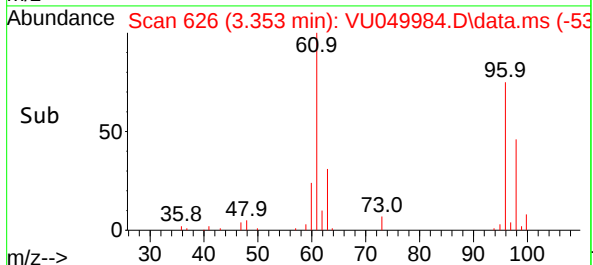
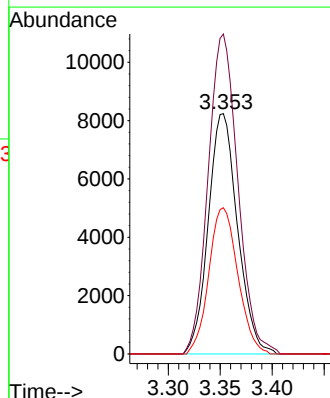
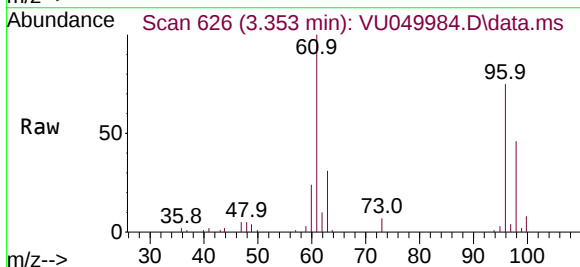
Tgt Ion: 96 Resp: 16169

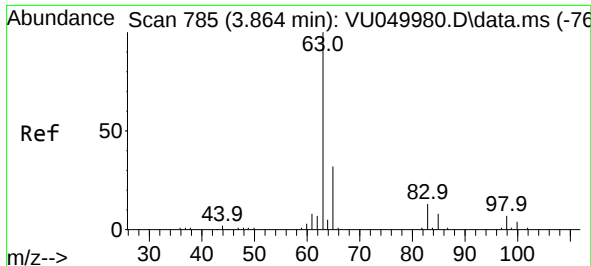
Ion Ratio Lower Upper

96 100

61 133.1 98.0 182.0

98 60.8 44.5 82.7





#19

1,1-Dichloroethane

Concen: 1.785 ug/L

RT: 3.871 min Scan# 71

Delta R.T. 0.007 min

Lab File: VU049984.D

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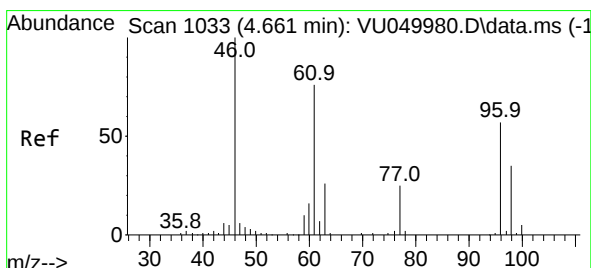
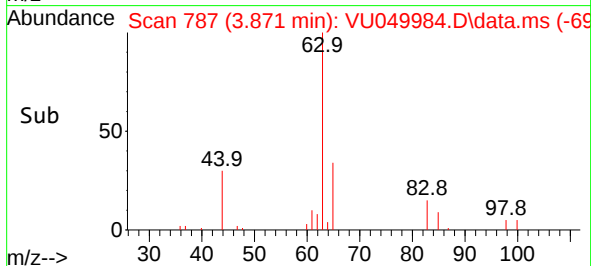
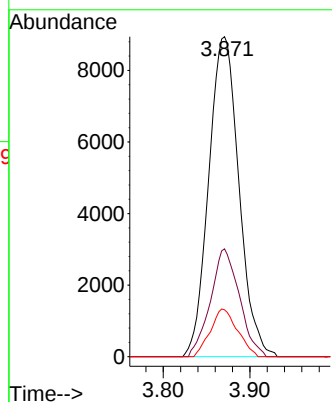
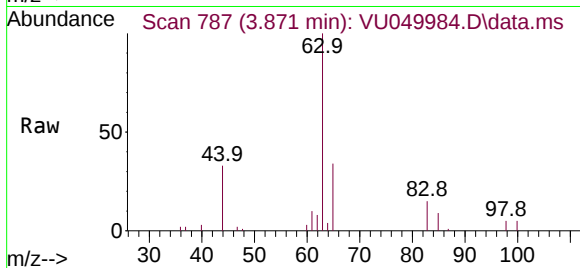
Tgt Ion: 63 Resp: 21666

Ion Ratio Lower Upper

63 100

65 33.7 23.4 43.6

83 14.7 9.4 17.4



#22

cis-1,2-Dichloroethene

Concen: 0.155 ug/L

RT: 4.671 min Scan# 1036

Delta R.T. 0.010 min

Lab File: VU049984.D

Acq: 28 Jul 2022 14:16

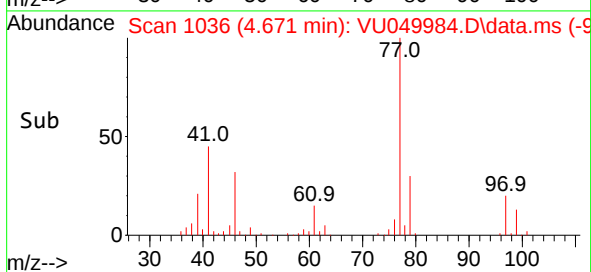
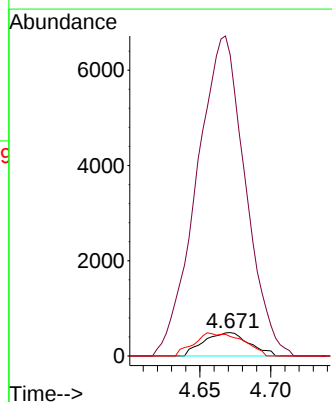
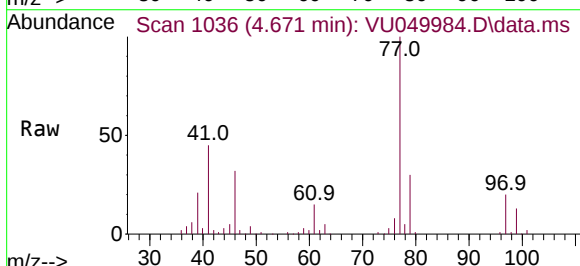
Tgt Ion: 96 Resp: 1093

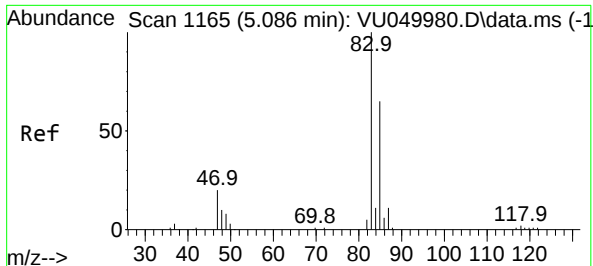
Ion Ratio Lower Upper

96 100

61 1288.8 87.2 161.9#

98 83.1 44.7 83.1#





#25

Chloroform

Concen: 7.335 ug/L

RT: 5.089 min Scan# 1165

Delta R.T. 0.003 min

Lab File: VU049984.D

Acq: 28 Jul 2022 14:16

Instrument :

MSVOA_U

ClientSampleId :

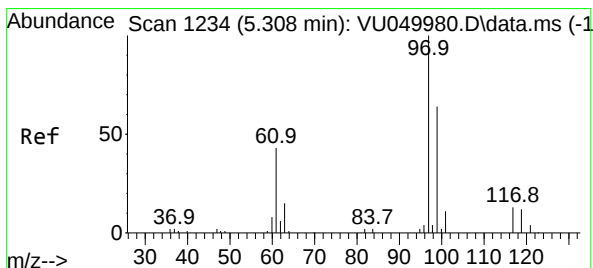
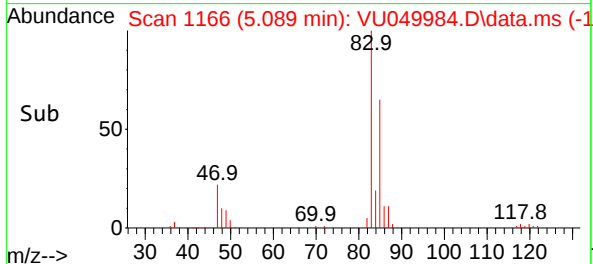
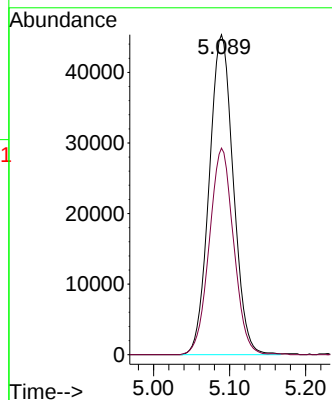
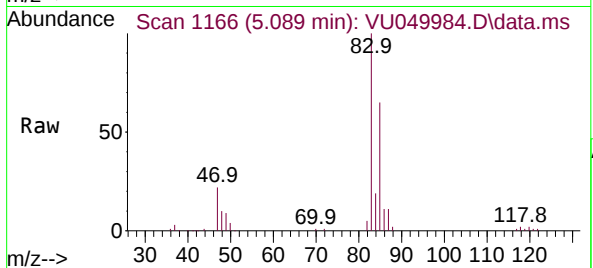
C0C54

Tgt Ion: 83 Resp: 99770

Ion Ratio Lower Upper

83 100

85 64.5 44.4 82.4



#29

1,1,1-Trichloroethane

Concen: 2.325 ug/L

RT: 5.314 min Scan# 1236

Delta R.T. 0.007 min

Lab File: VU049984.D

Acq: 28 Jul 2022 14:16

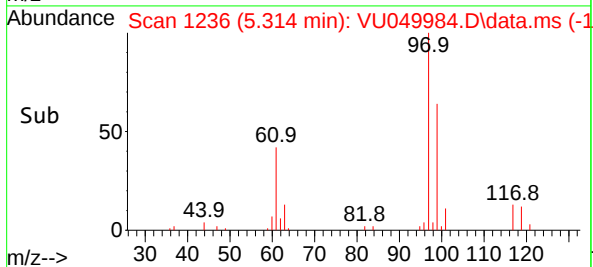
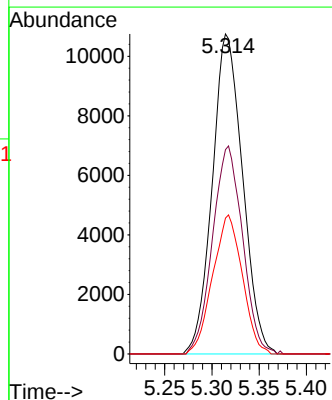
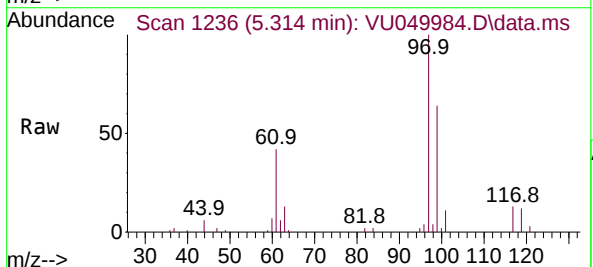
Tgt Ion: 97 Resp: 23953

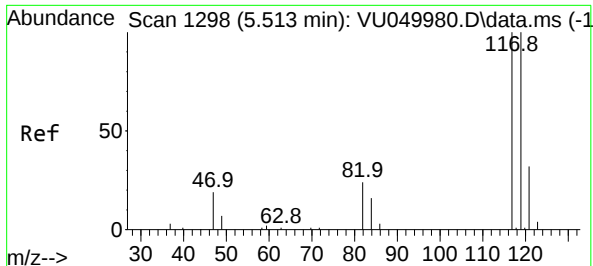
Ion Ratio Lower Upper

97 100

99 64.4 52.0 78.0

61 42.5 35.0 52.6

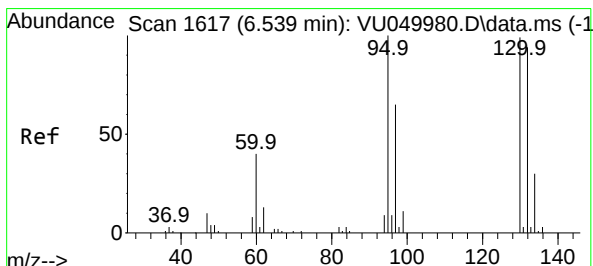
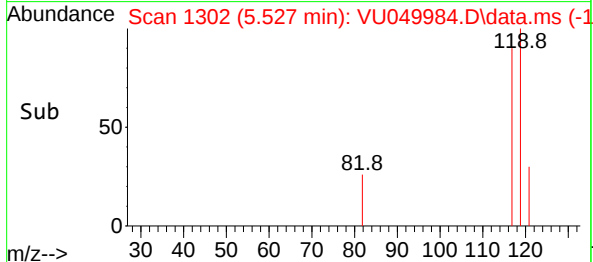
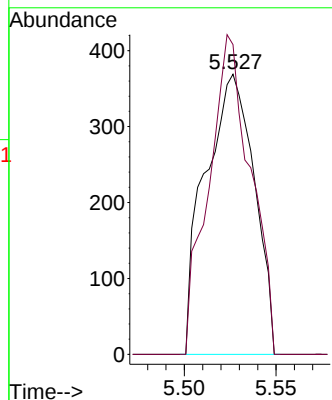
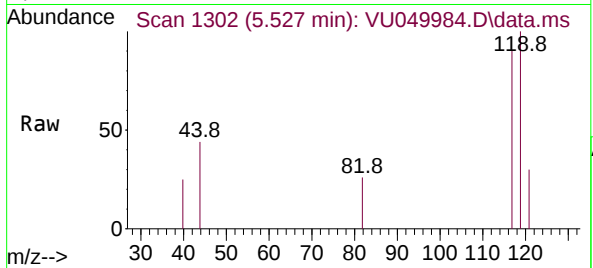




#31
Carbon tetrachloride
Concen: 0.082 ug/L
RT: 5.527 min Scan# 11
Delta R.T. 0.013 min
Lab File: VU049984.D
Acq: 28 Jul 2022 14:16

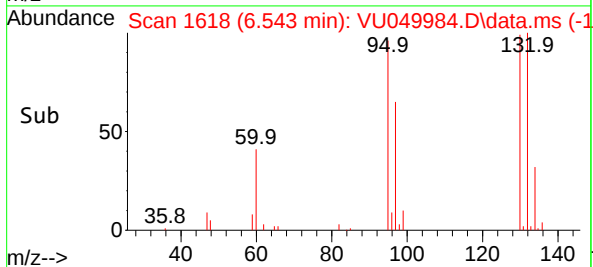
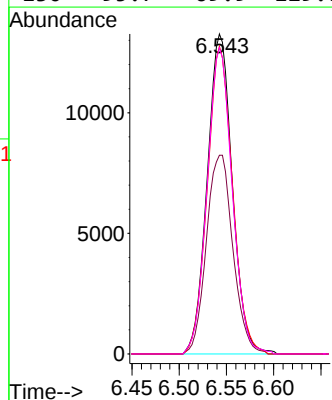
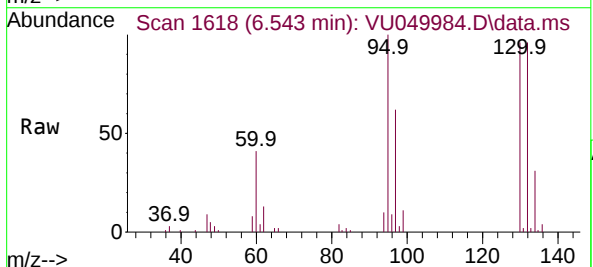
Instrument :
MSVOA_U
ClientSampleId :
C0C54

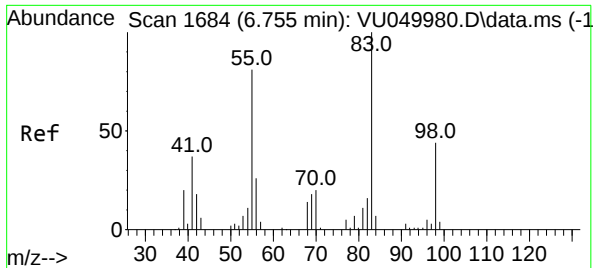
Tgt Ion:117 Resp: 685
Ion Ratio Lower Upper
117 100
119 97.7 77.8 116.6



#34
Trichloroethene
Concen: 3.563 ug/L
RT: 6.543 min Scan# 1618
Delta R.T. 0.003 min
Lab File: VU049984.D
Acq: 28 Jul 2022 14:16

Tgt Ion: 95 Resp: 24519
Ion Ratio Lower Upper
95 100
97 62.1 45.6 84.8
132 96.2 66.8 124.2
130 95.7 69.9 129.7

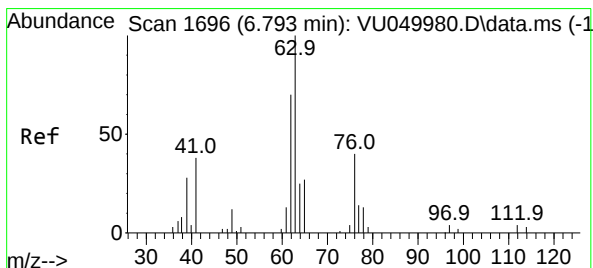
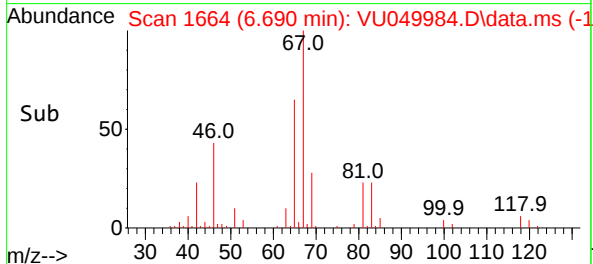
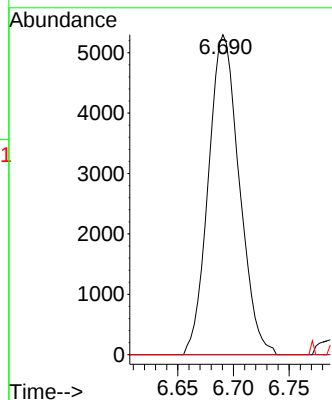
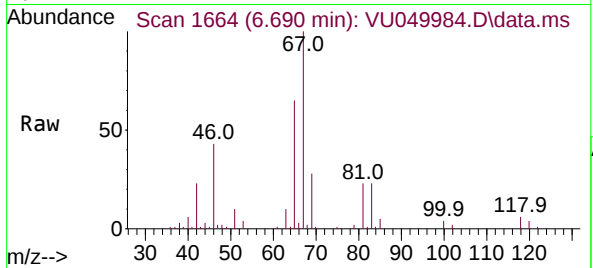




#35
Methylcyclohexane
Concen: 1.127 ug/L
RT: 6.690 min Scan# 1664
Delta R.T. -0.064 min
Lab File: VU049984.D
Acq: 28 Jul 2022 14:16

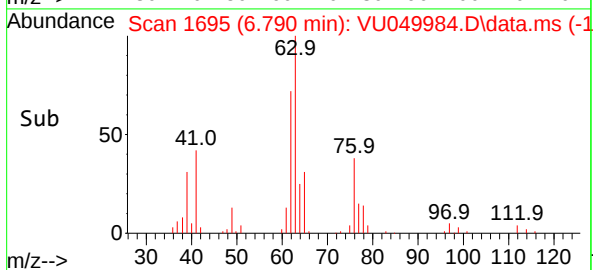
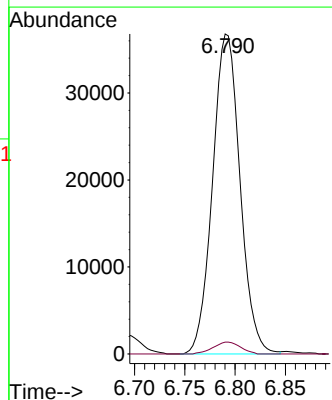
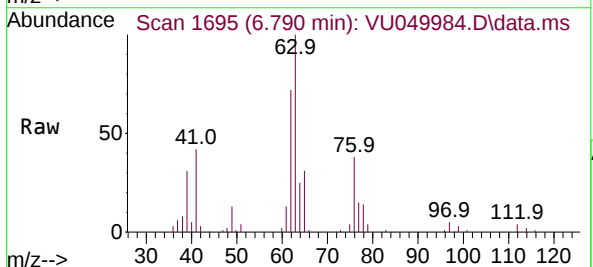
Instrument :
MSVOA_U
ClientSampleId :
C0C54

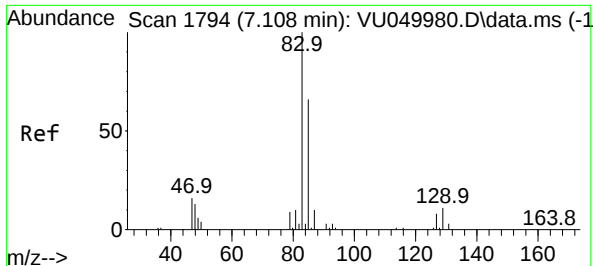
Tgt Ion: 83 Resp: 10234
Ion Ratio Lower Upper
83 100
55 0.0 61.6 92.4#
98 0.4 34.8 52.2#



#37
1,2-Dichloropropane
Concen: 8.956 ug/L
RT: 6.790 min Scan# 1695
Delta R.T. -0.003 min
Lab File: VU049984.D
Acq: 28 Jul 2022 14:16

Tgt Ion: 63 Resp: 69882
Ion Ratio Lower Upper
63 100
112 3.7 3.0 4.6

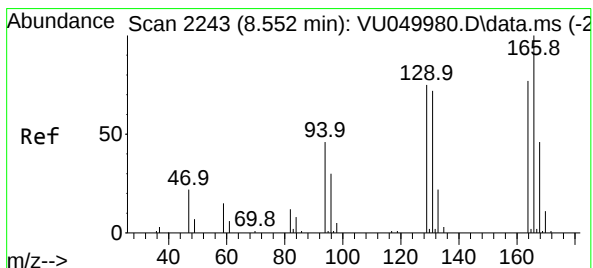
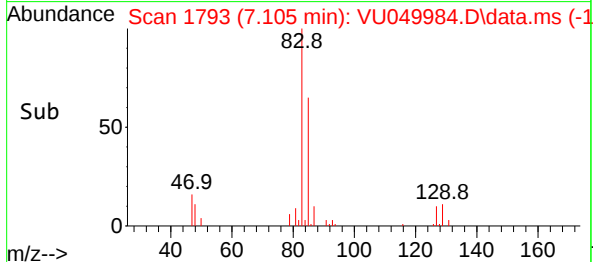
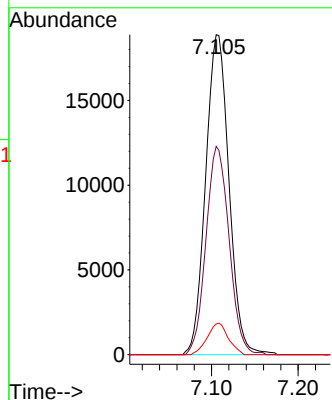
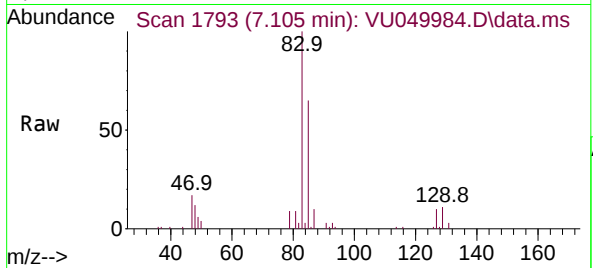




#38
Bromodichloromethane
Concen: 3.744 ug/L
RT: 7.105 min Scan# 1
Delta R.T. -0.003 min
Lab File: VU049984.D
Acq: 28 Jul 2022 14:16

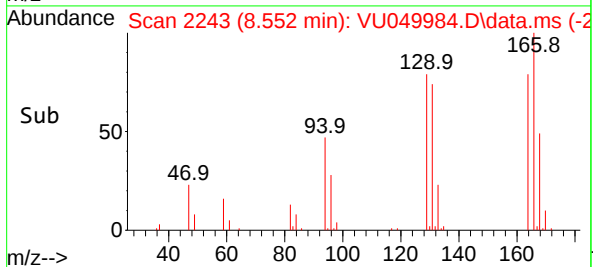
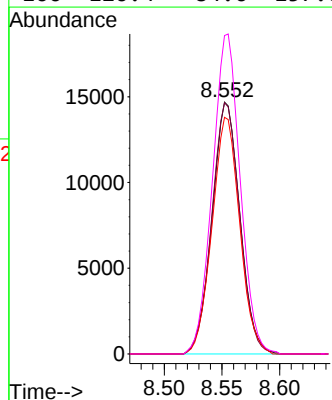
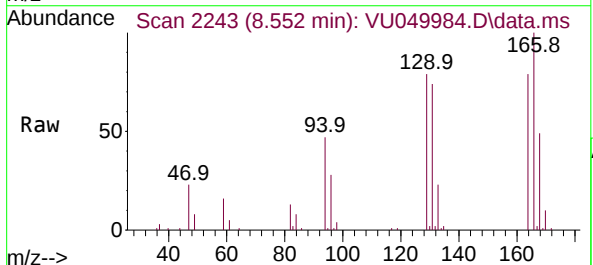
Instrument :
MSVOA_U
ClientSampleId :
C0C54

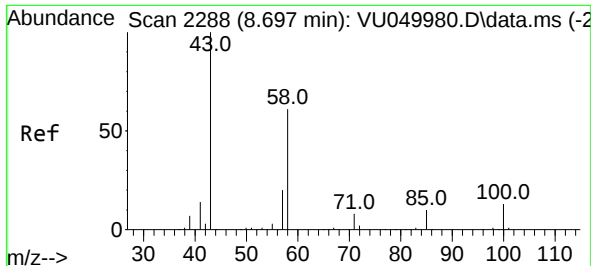
Tgt Ion: 83 Resp: 35345
Ion Ratio Lower Upper
83 100
85 65.1 44.9 83.5
127 9.6 7.2 10.8



#47
Tetrachloroethene
Concen: 4.970 ug/L
RT: 8.552 min Scan# 2243
Delta R.T. 0.000 min
Lab File: VU049984.D
Acq: 28 Jul 2022 14:16

Tgt Ion: 164 Resp: 24618
Ion Ratio Lower Upper
164 100
129 99.8 66.3 123.1
131 94.0 63.1 117.1
166 126.4 84.6 157.0

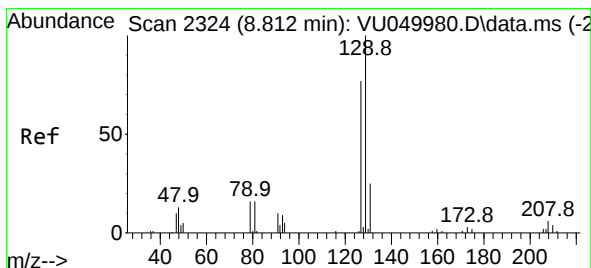
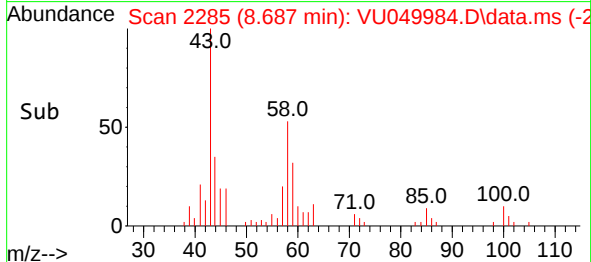
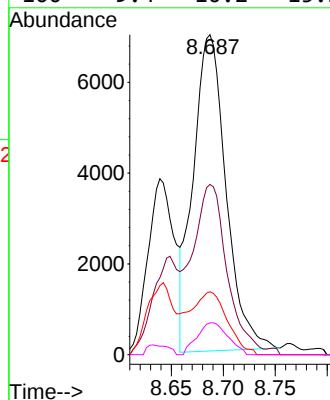
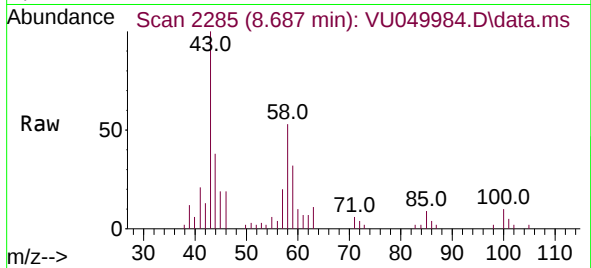




#48
2-Hexanone
Concen: 4.460 ug/L
RT: 8.687 min Scan# 21
Delta R.T. -0.009 min
Lab File: VU049984.D
Acq: 28 Jul 2022 14:16

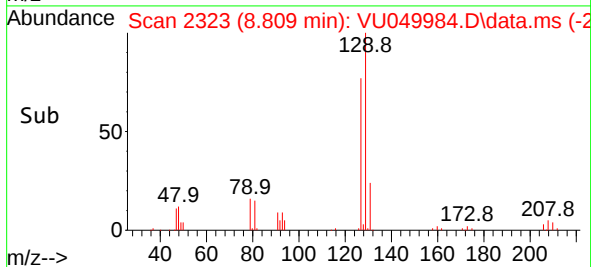
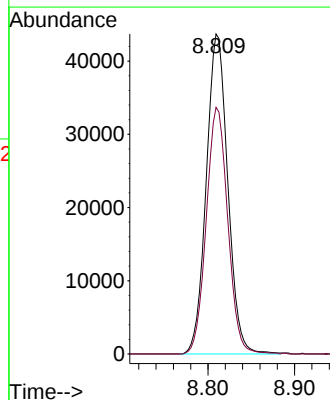
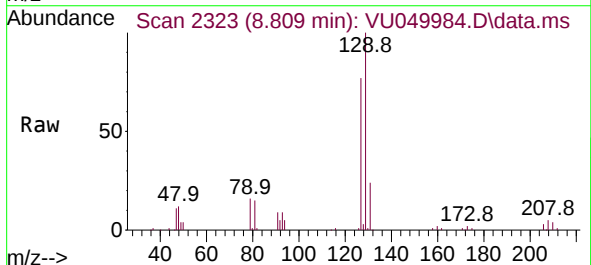
Instrument :
MSVOA_U
ClientSampleId :
C0C54

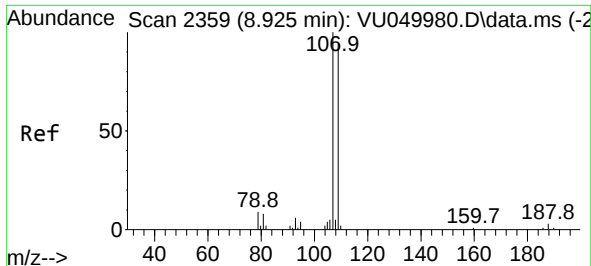
Tgt Ion: 43	Resp: 15329
Ion Ratio	Lower Upper
43 100	
58 52.2	49.4 74.0
57 19.0	17.0 25.4
100 9.4	10.2 15.2#



#49
Dibromochloromethane
Concen: 11.831 ug/L
RT: 8.809 min Scan# 2323
Delta R.T. -0.003 min
Lab File: VU049984.D
Acq: 28 Jul 2022 14:16

Tgt Ion:129	Resp: 75476		
Ion Ratio	Lower	Upper	
129 100			
127 77.0	54.5	101.1	





#50

1,2-Dibromoethane

Concen: 7.170 ug/L

RT: 8.925 min Scan# 21

Delta R.T. 0.000 min

Lab File: VU049984.D

Acq: 28 Jul 2022 14:16

Instrument :

MSVOA_U

ClientSampleId :

C0C54

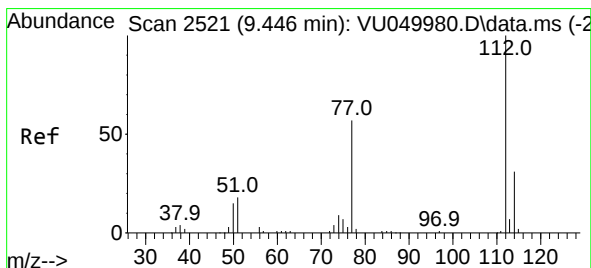
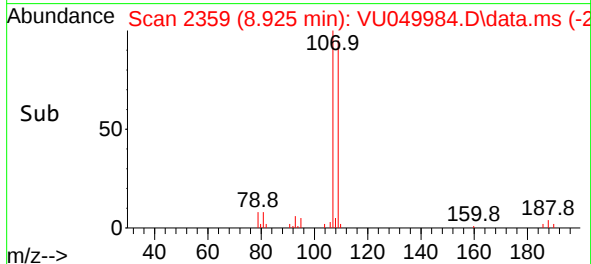
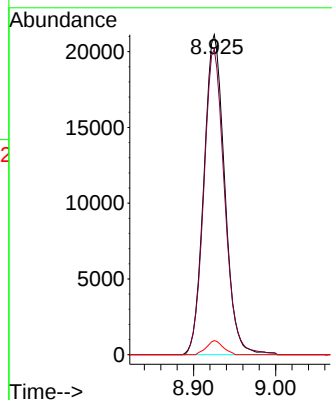
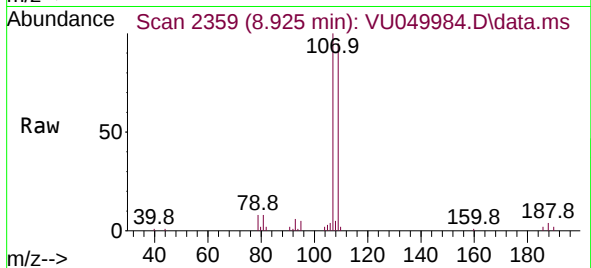
Tgt Ion:107 Resp: 37116

Ion Ratio Lower Upper

107 100

109 95.4 62.7 116.5

188 4.4 2.4 3.6#



#51

Chlorobenzene

Concen: 21.158 ug/L

RT: 9.446 min Scan# 2521

Delta R.T. 0.000 min

Lab File: VU049984.D

Acq: 28 Jul 2022 14:16

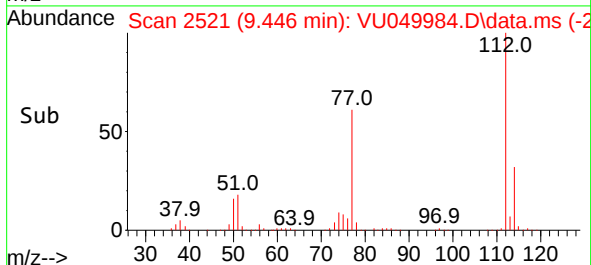
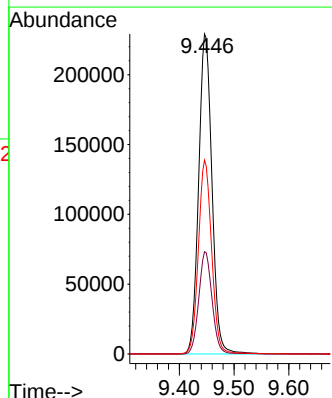
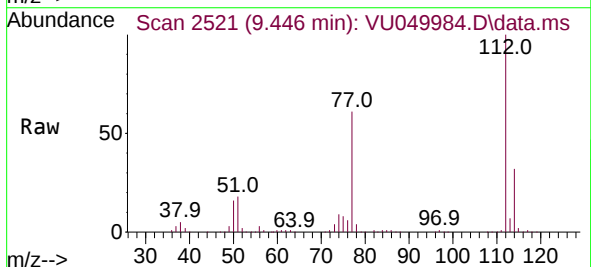
Tgt Ion:112 Resp: 386654

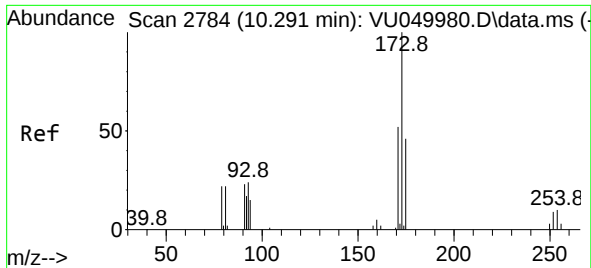
Ion Ratio Lower Upper

112 100

114 32.0 22.4 41.6

77 60.6 48.2 72.4

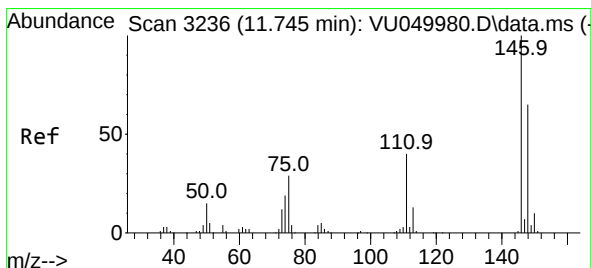
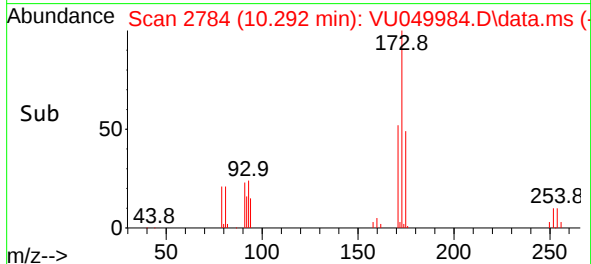
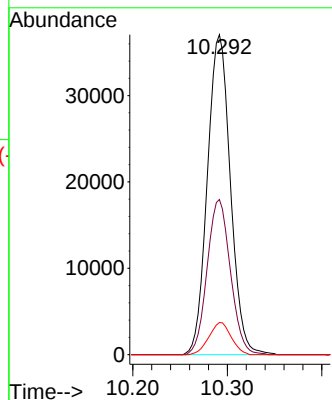
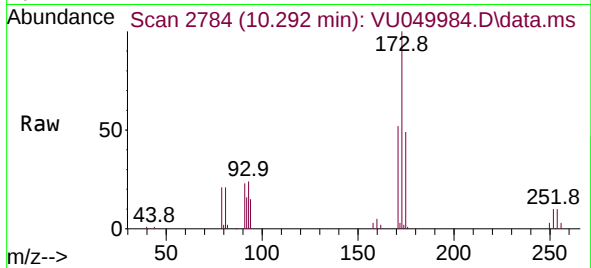




#59
Bromoform
Concen: 20.021 ug/L
RT: 10.292 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU049984.D
Acq: 28 Jul 2022 14:16

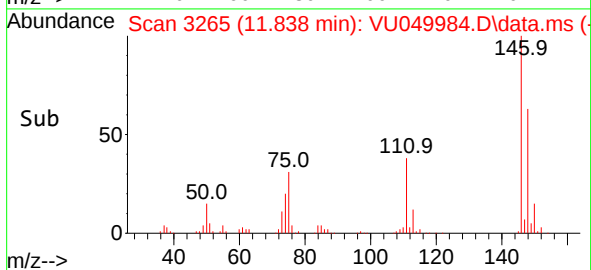
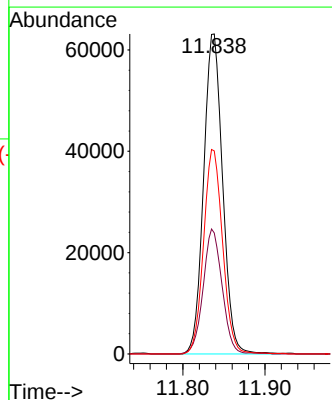
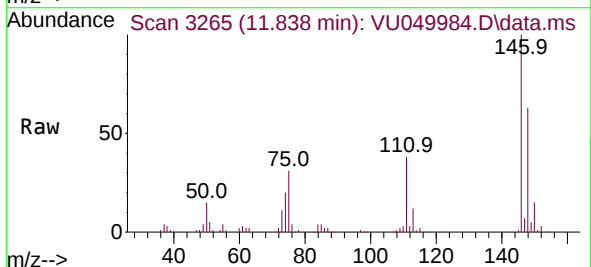
Instrument :
MSVOA_U
ClientSampleId :
C0C54

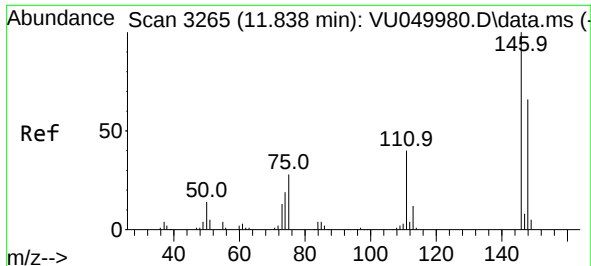
Tgt Ion:173 Resp: 62668
Ion Ratio Lower Upper
173 100
175 48.9 39.1 58.7
254 9.8 7.5 11.3



#64
1,3-Dichlorobenzene
Concen: 9.232 ug/L
RT: 11.838 min Scan# 3265
Delta R.T. 0.094 min
Lab File: VU049984.D
Acq: 28 Jul 2022 14:16

Tgt Ion:146 Resp: 101693
Ion Ratio Lower Upper
146 100
111 37.8 28.9 53.7
148 63.4 45.9 85.3

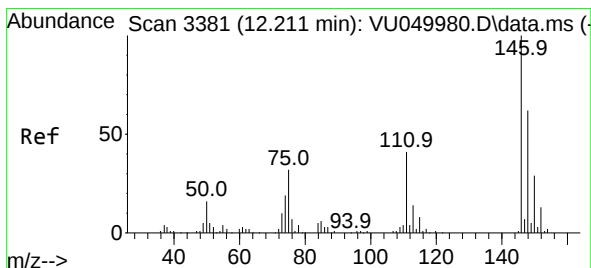
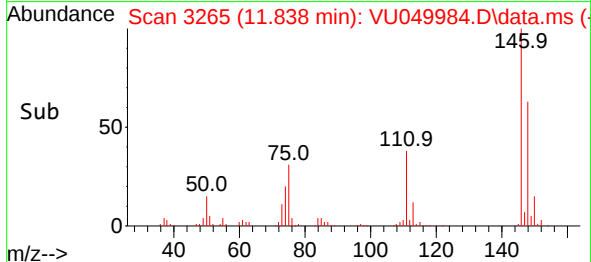
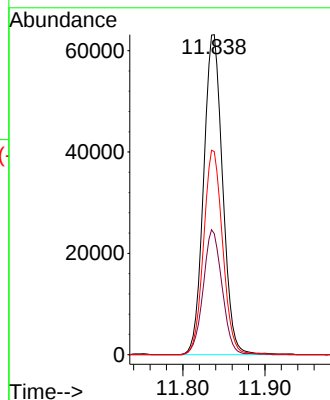
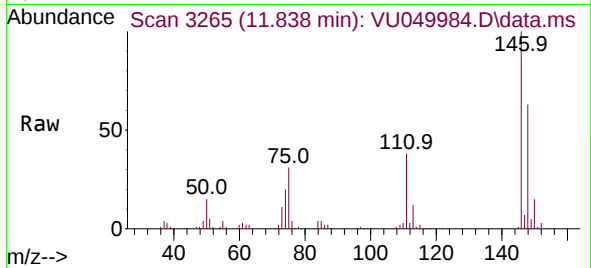




#65
1,4-Dichlorobenzene
Concen: 9.330 ug/L
RT: 11.838 min Scan# 3265
Delta R.T. 0.000 min
Lab File: VU049984.D
Acq: 28 Jul 2022 14:16

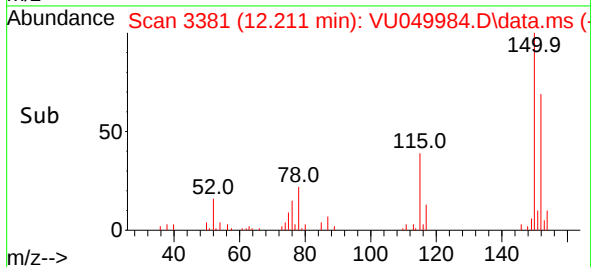
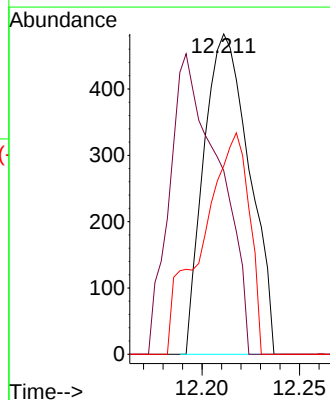
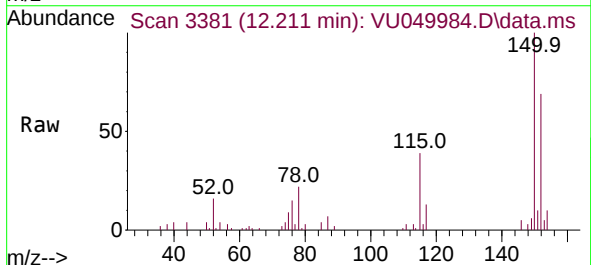
Instrument :
MSVOA_U
ClientSampleId :
C0C54

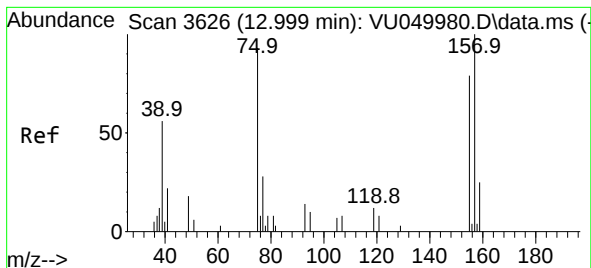
Tgt Ion:146 Resp: 101693
Ion Ratio Lower Upper
146 100
111 37.8 26.4 49.0
148 63.4 44.3 82.3



#67
1,2-Dichlorobenzene
Concen: 0.072 ug/L
RT: 12.211 min Scan# 3381
Delta R.T. 0.000 min
Lab File: VU049984.D
Acq: 28 Jul 2022 14:16

Tgt Ion:146 Resp: 783
Ion Ratio Lower Upper
146 100
111 57.3 33.4 50.2#
148 58.8 51.3 76.9

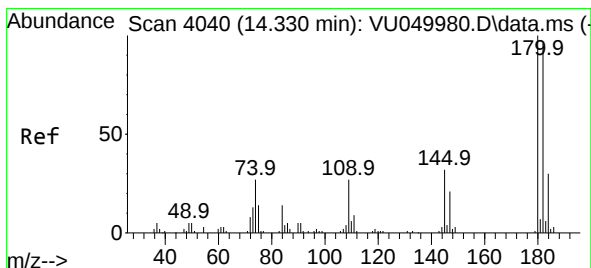
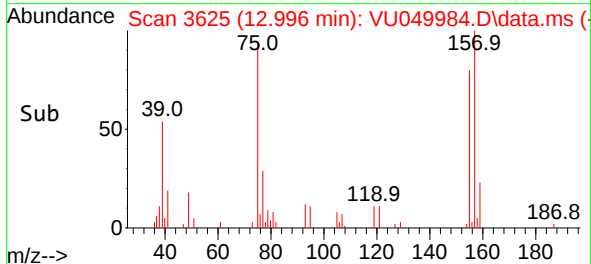
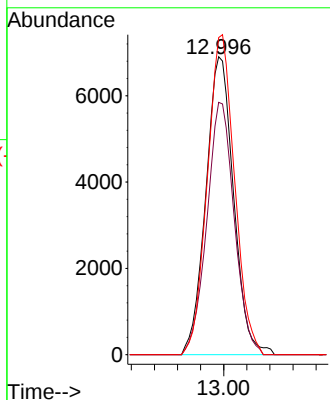
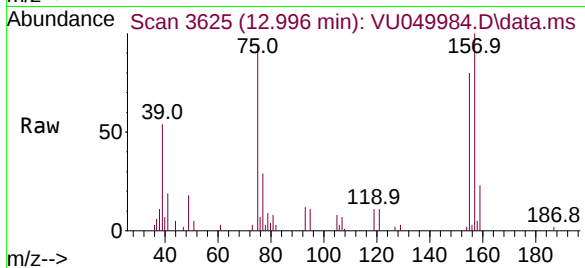




#68
 1,2-Dibromo-3-chloropropane
 Concen: 12.891 ug/L
 RT: 12.996 min Scan# 30
 Delta R.T. -0.003 min
 Lab File: VU049984.D
 Acq: 28 Jul 2022 14:16

Instrument :
 MSVOA_U
 ClientSampleId :
 C0C54

Tgt Ion: 75 Resp: 11516
 Ion Ratio Lower Upper
 75 100
 155 84.7 59.4 89.0
 157 106.4 73.8 110.6



#72
 1,2,3-Trichlorobenzene
 Concen: 0.155 ug/L
 RT: 14.336 min Scan# 4042
 Delta R.T. 0.007 min
 Lab File: VU049984.D
 Acq: 28 Jul 2022 14:16

Tgt Ion:180 Resp: 972
 Ion Ratio Lower Upper
 180 100
 182 88.5 77.0 115.4
 145 29.7 26.3 39.5

