

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU100323\
 Data File : VU055633.D
 Acq On : 03 Oct 2023 12:03
 Operator : MD/SY
 Sample : 04679-09
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 04 04:41:35 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR091923WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Oct 04 04:40:48 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.248	114	163537	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.415	117	169013	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.810	152	93414	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.599	65	60244	3.645	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	72.800%
7) Chloroethane-d5	1.911	69	63719	4.375	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	87.400%
11) 1,1-Dichloroethene-d2	2.566	65	24151	3.550	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	71.000%
20) 2-Butanone-d5	4.624	46	164259	55.020	ug/L	-0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	110.040%
24) Chloroform-d	5.062	84	134984	4.515	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.400%
26) 1,2-Dichloroethane-d4	5.701	65	67224	4.675	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.400%
32) Benzene-d6	5.724	84	248714	4.207	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.200%
36) 1,2-Dichloropropane-d6	6.689	67	81572	4.618	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	92.400%
41) Toluene-d8	7.897	98	205558	3.815	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	76.200%
43) trans-1,3-Dichloroprop...	8.177	79	27081	4.369	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	87.400%
46) 2-Hexanone-d5	8.631	63	85500	45.348	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	90.700%
56) 1,1,2,2-Tetrachloroeth...	10.753	84	67731	5.117	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	102.400%
66) 1,2-Dichlorobenzene-d4	12.190	152	85176	4.518	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	90.400%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.602	62	41746	2.763	ug/L	96
8) Chloroethane	1.933	64	2525	0.256	ug/L	89
12) 1,1-Dichloroethene	2.579	96	5236	0.458	ug/L #	1
13) Acetone	2.634	43	8571	5.036	ug/L	88
16) Methylene chloride	3.042	84	6175	0.451	ug/L	80
18) trans-1,2-Dichloroethene	3.354	96	20464	1.776	ug/L	97
19) 1,1-Dichloroethane	3.865	63	611978	28.714	ug/L	99
22) cis-1,2-Dichloroethene	4.663	96	216366	16.193	ug/L	100
27) 1,2-Dichloroethane	5.791	62	94664	6.840	ug/L	98
30) Cyclohexane	5.386	56	3679	0.209	ug/L #	77
33) Benzene	5.772	78	164226	3.376	ug/L	100
34) Trichloroethene	6.541	95	32220	2.342	ug/L	95
35) Methylcyclohexane	6.756	83	5748	0.290	ug/L #	83
39) cis-1,3-Dichloropropene	7.566	75	1953	0.115	ug/L #	26
42) Toluene	7.971	91	11054	0.213	ug/L	99
45) 1,1,2-Trichloroethane	8.364	97	1719	0.193	ug/L #	14
47) Tetrachloroethene	8.553	164	6218	0.630	ug/L	95
48) 2-Hexanone	8.682	43	21445	4.795	ug/L #	88
49) Dibromochloromethane	8.550	129	5830	0.623	ug/L #	9

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

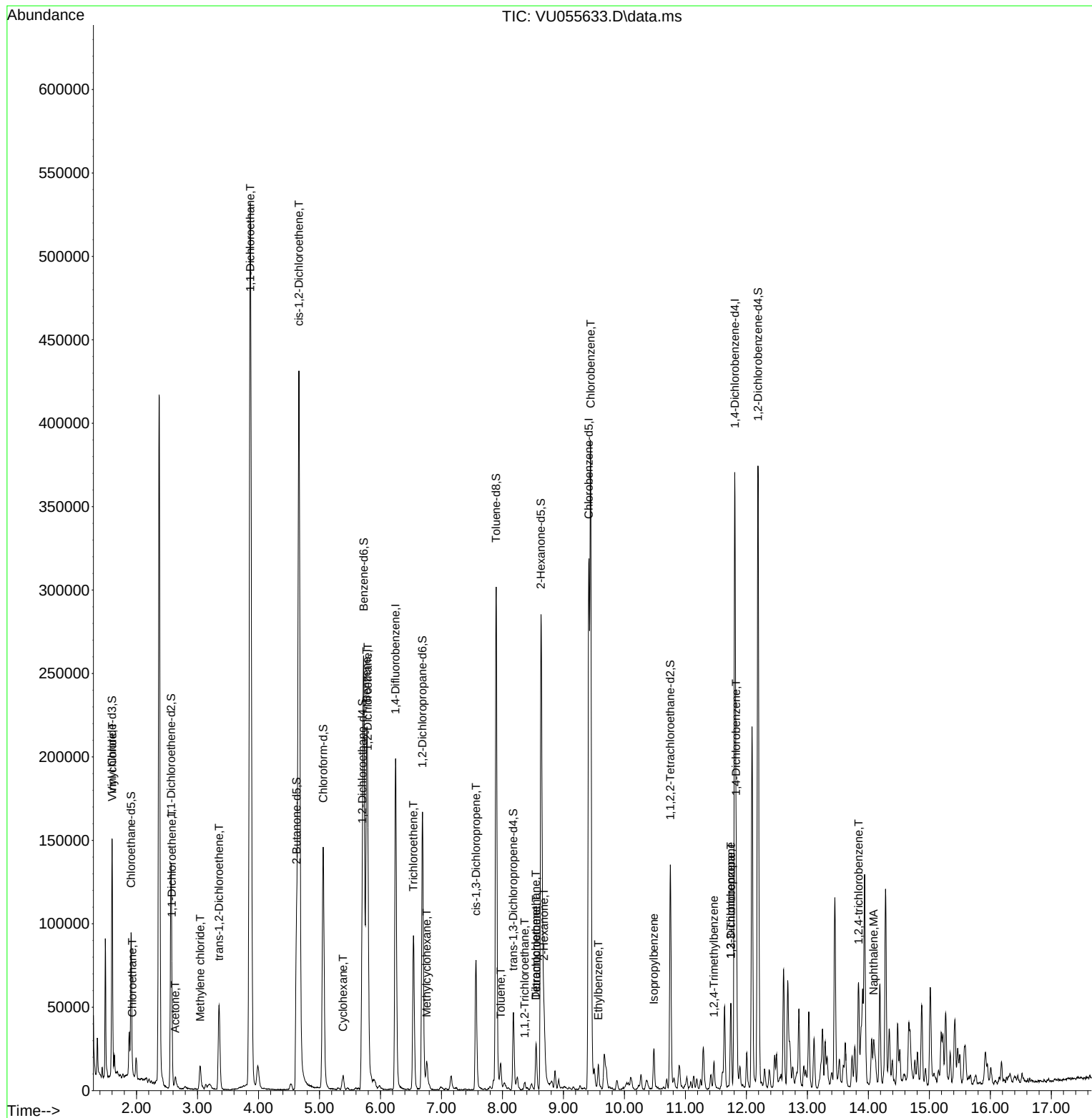
51) Chlorobenzene	9.447	112	206037	6.200	ug/L	99
52) Ethylbenzene	9.573	91	8738	0.157	ug/L	99
60) Isopropylbenzene	10.483	105	15799	0.293	ug/L #	85
61) 1,2,3-Trichloropropane	11.746	75	6332	0.868	ug/L #	43
63) 1,2,4-Trimethylbenzene	11.470	105	8369	0.199	ug/L	99
64) 1,3-Dichlorobenzene	11.746	146	19757	0.766	ug/L	99
65) 1,4-Dichlorobenzene	11.833	146	42113	1.635	ug/L	95
70) 1,2,4-trichlorobenzene	13.843	180	9161	0.677	ug/L #	83
71) Naphthalene	14.087	128	23559	1.202	ug/L	97

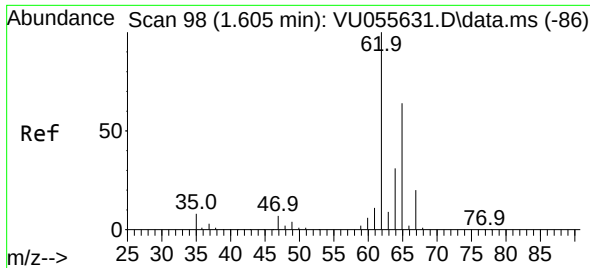
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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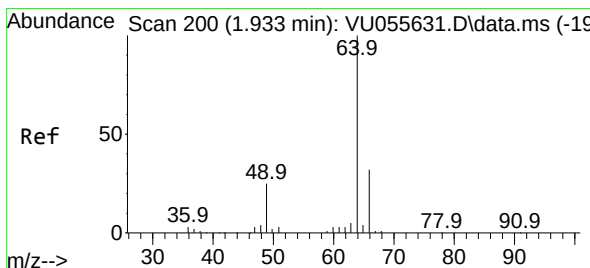
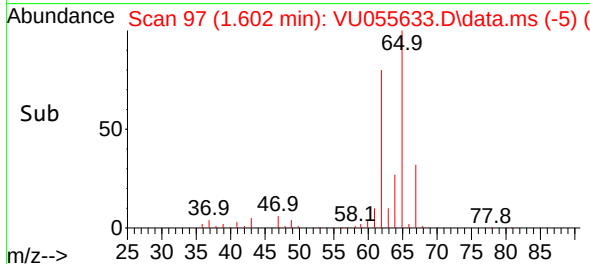
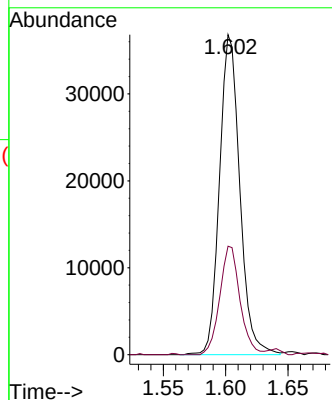
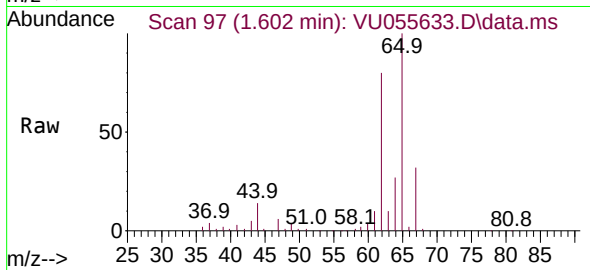




#5
 Vinyl chloride
 Concen: 2.763 ug/L
 RT: 1.602 min Scan# 91
 Delta R.T. -0.003 min
 Lab File: VU055633.D
 Acq: 03 Oct 2023 12:03

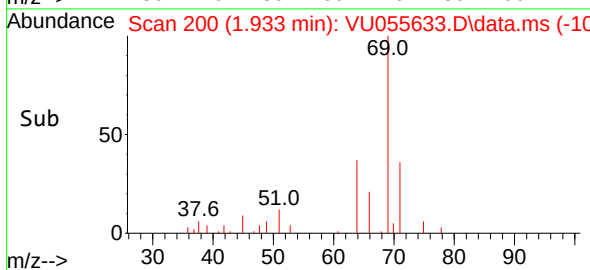
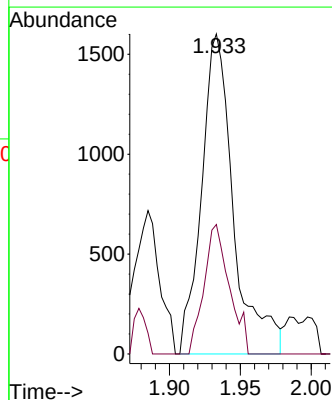
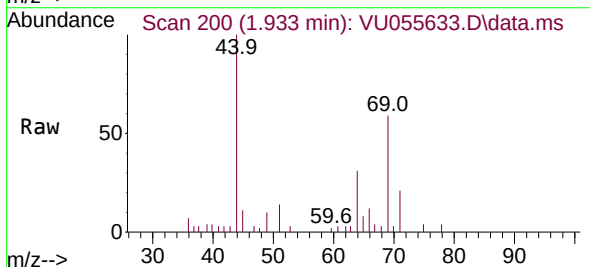
Instrument :
 MSVOA_U
 ClientSampleId :

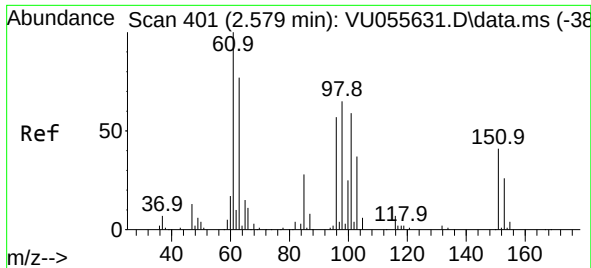
Tgt Ion: 62 Resp: 41746
 Ion Ratio Lower Upper
 62 100
 64 33.9 22.3 41.5



#8
 Chloroethane
 Concen: 0.256 ug/L
 RT: 1.933 min Scan# 200
 Delta R.T. 0.000 min
 Lab File: VU055633.D
 Acq: 03 Oct 2023 12:03

Tgt Ion: 64 Resp: 2525
 Ion Ratio Lower Upper
 64 100
 66 40.4 23.7 44.1

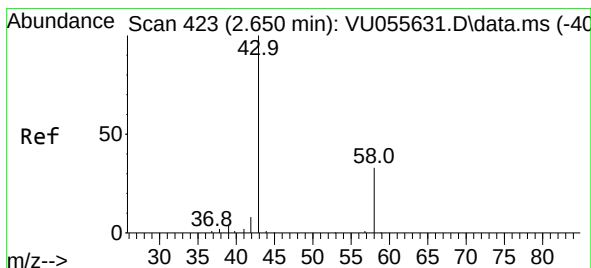
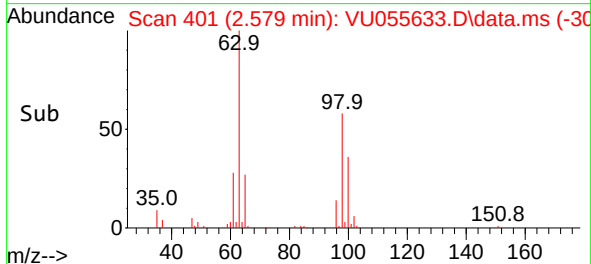
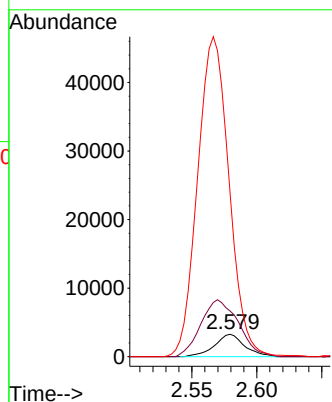
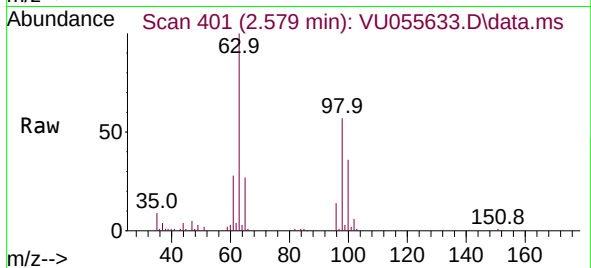




#12
1,1-Dichloroethene
Concen: 0.458 ug/L
RT: 2.579 min Scan# 401
Delta R.T. 0.000 min
Lab File: VU055633.D
Acq: 03 Oct 2023 12:03

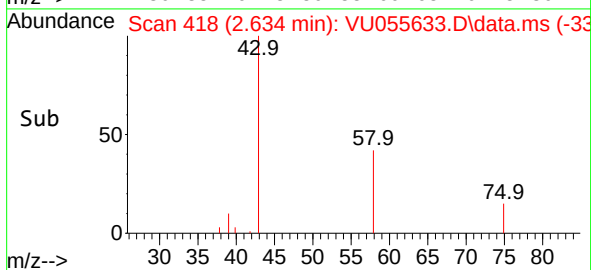
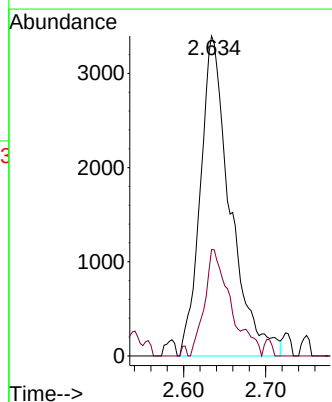
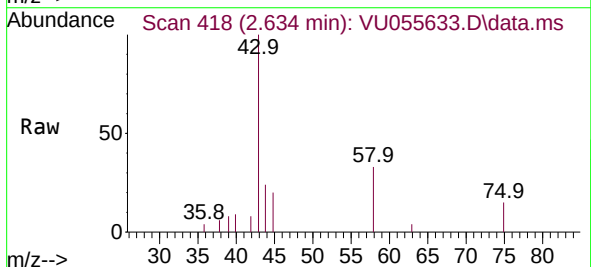
Instrument :
MSVOA_U
ClientSampleId :

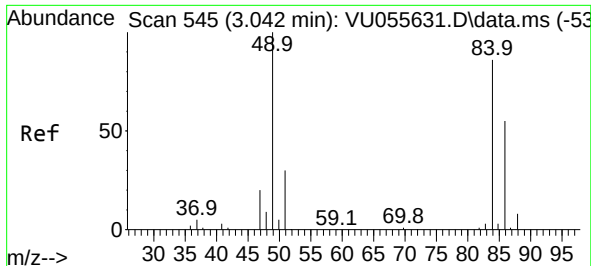
Tgt Ion: 96 Resp: 5236
Ion Ratio Lower Upper
96 100
61 203.5 114.5 212.7
63 729.0 98.3 182.5#



#13
Acetone
Concen: 5.036 ug/L
RT: 2.634 min Scan# 418
Delta R.T. -0.016 min
Lab File: VU055633.D
Acq: 03 Oct 2023 12:03

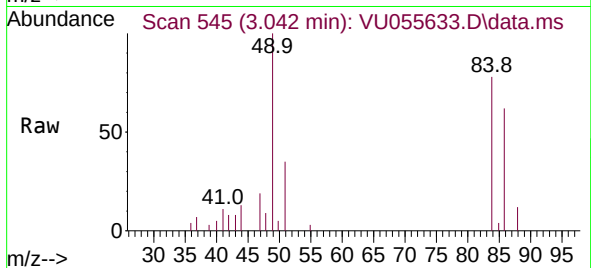
Tgt Ion: 43 Resp: 8571
Ion Ratio Lower Upper
43 100
58 29.2 0.0 72.2





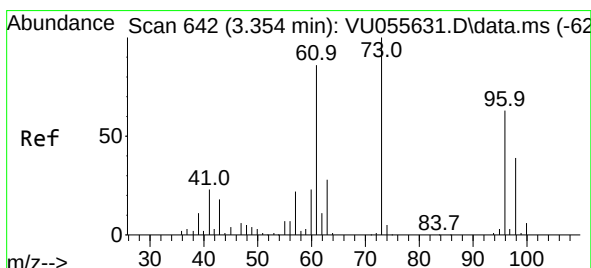
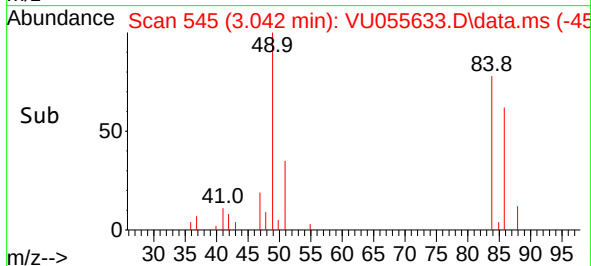
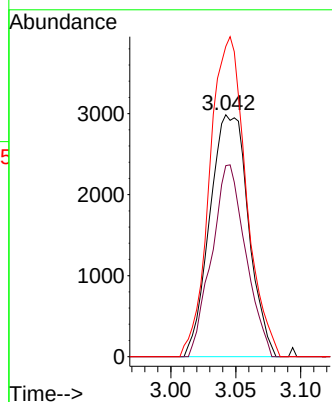
#16
Methylene chloride
Concen: 0.451 ug/L
RT: 3.042 min Scan# 545
Delta R.T. 0.000 min
Lab File: VU055633.D
Acq: 03 Oct 2023 12:03

Instrument :
MSVOA_U
ClientSampleId :



Tgt Ion: 84 Resp: 6175

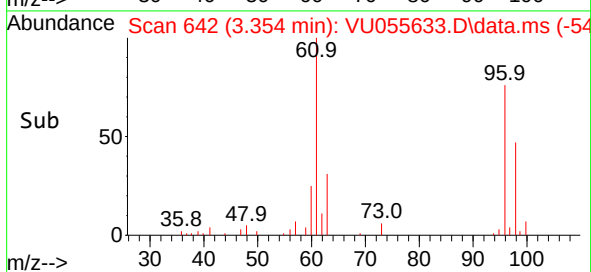
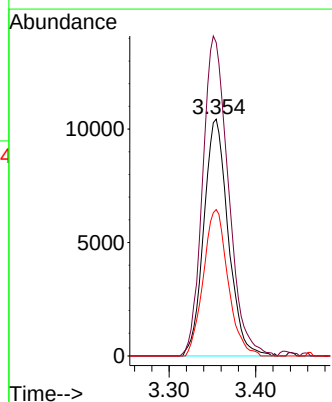
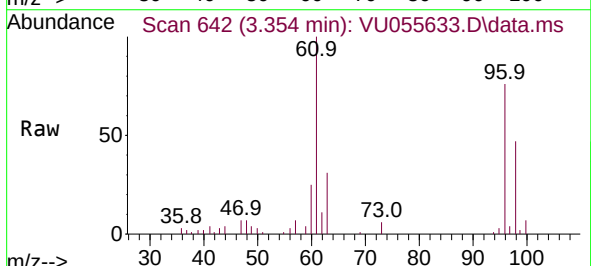
Ion	Ratio	Lower	Upper
84	100		
86	78.9	44.9	83.3
49	134.1	78.8	146.3

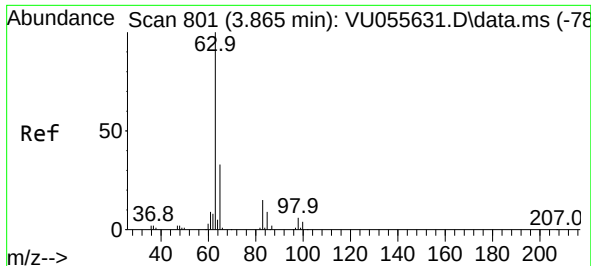


#18
trans-1,2-Dichloroethene
Concen: 1.776 ug/L
RT: 3.354 min Scan# 642
Delta R.T. 0.000 min
Lab File: VU055633.D
Acq: 03 Oct 2023 12:03

Tgt Ion: 96 Resp: 20464

Ion	Ratio	Lower	Upper
96	100		
61	132.3	94.6	175.6
98	61.8	45.7	84.9





#19

1,1-Dichloroethane

Concen: 28.714 ug/L

RT: 3.865 min Scan# 801

Delta R.T. 0.000 min

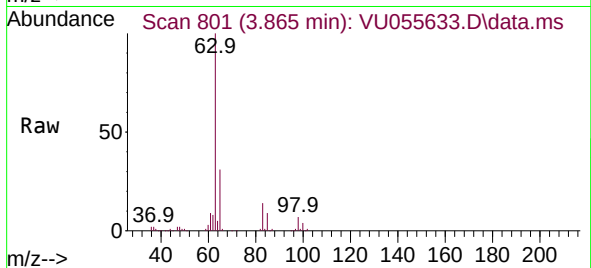
Lab File: VU055633.D

Acq: 03 Oct 2023 12:03

Instrument :

MSVOA_U

ClientSampleId :



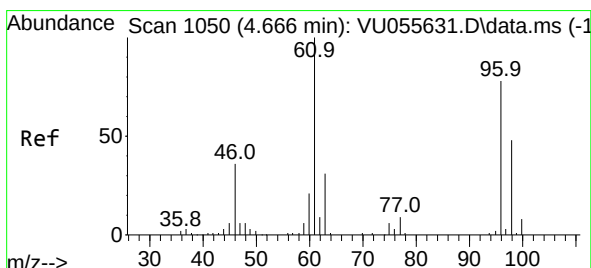
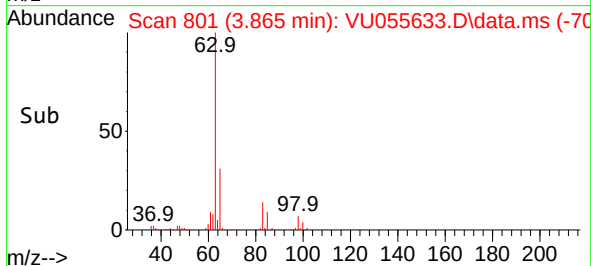
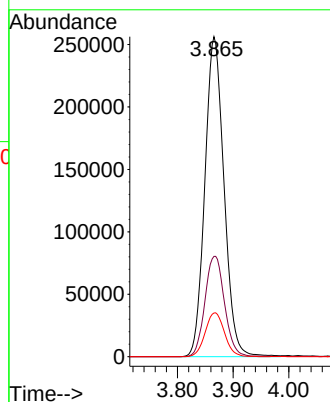
Tgt Ion: 63 Resp: 611978

Ion Ratio Lower Upper

63 100

65 31.3 22.0 41.0

83 13.7 10.1 18.9



#22

cis-1,2-Dichloroethene

Concen: 16.193 ug/L

RT: 4.663 min Scan# 1049

Delta R.T. -0.003 min

Lab File: VU055633.D

Acq: 03 Oct 2023 12:03

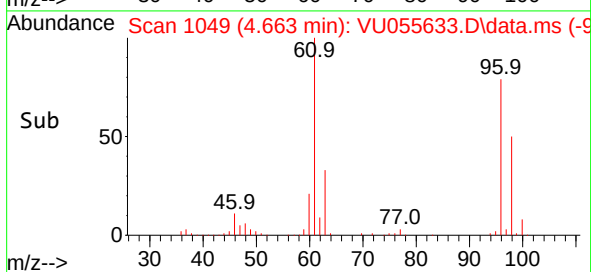
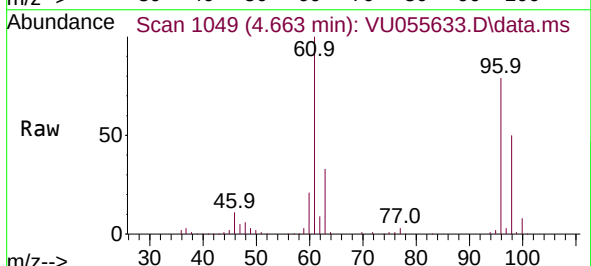
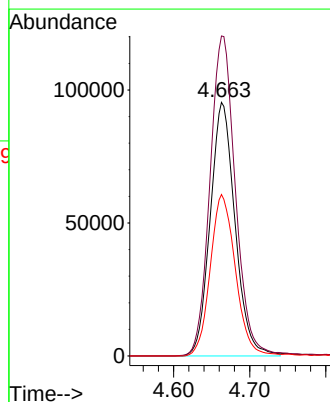
Tgt Ion: 96 Resp: 216366

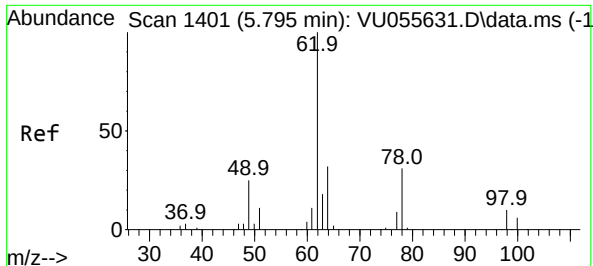
Ion Ratio Lower Upper

96 100

61 126.2 87.8 163.2

98 63.6 44.4 82.4

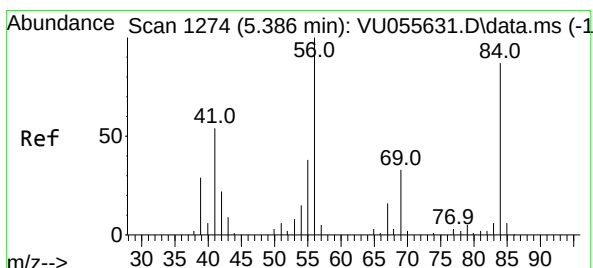
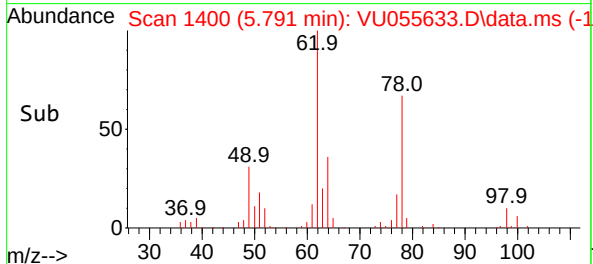
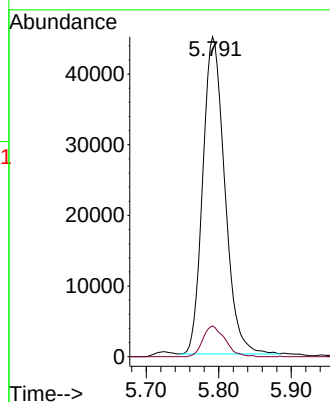
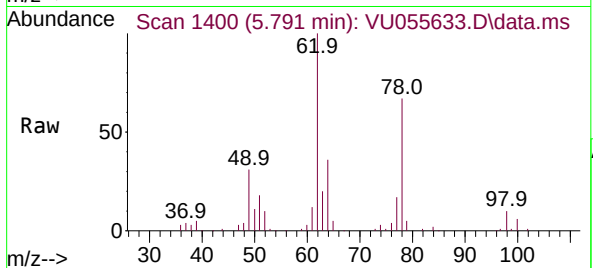




#27
1,2-Dichloroethane
Concen: 6.840 ug/L
RT: 5.791 min Scan# 14
Delta R.T. -0.003 min
Lab File: VU055633.D
Acq: 03 Oct 2023 12:03

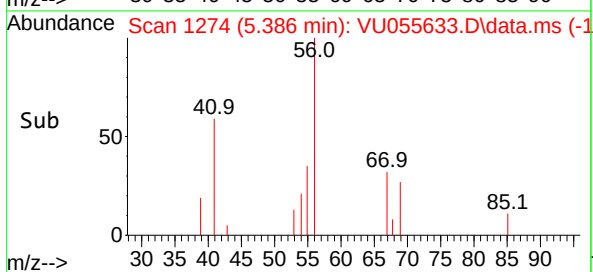
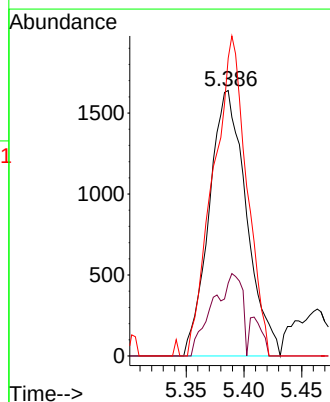
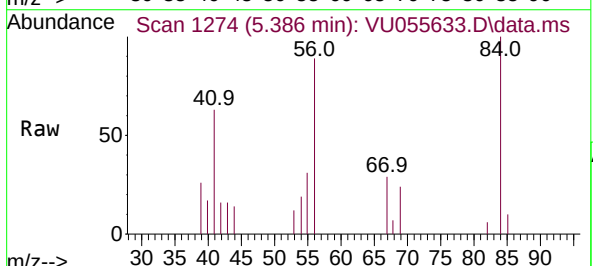
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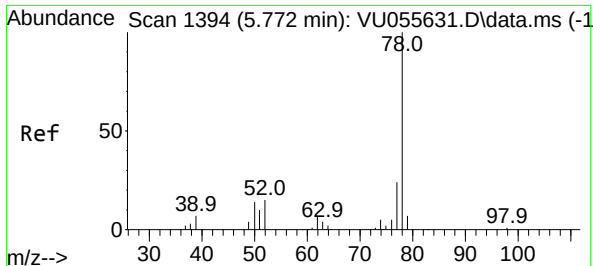
Tgt Ion: 62 Resp: 94664
Ion Ratio Lower Upper
62 100
98 9.6 7.0 10.4



#30
Cyclohexane
Concen: 0.209 ug/L
RT: 5.386 min Scan# 1274
Delta R.T. 0.000 min
Lab File: VU055633.D
Acq: 03 Oct 2023 12:03

Tgt Ion: 56 Resp: 3679
Ion Ratio Lower Upper
56 100
69 14.0 26.5 39.7#
84 108.3 72.6 108.8

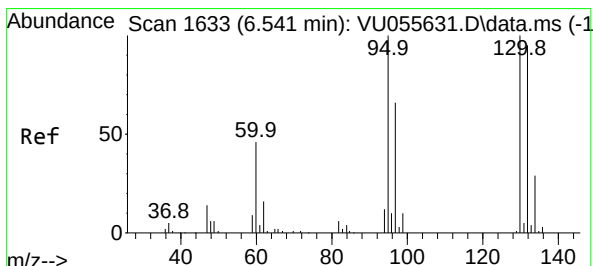
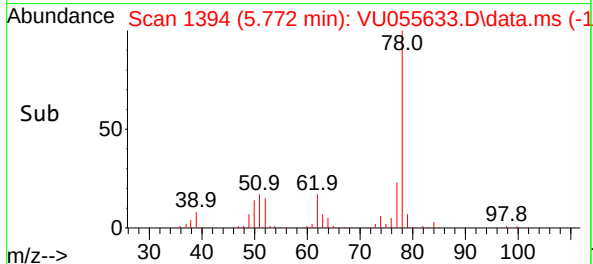
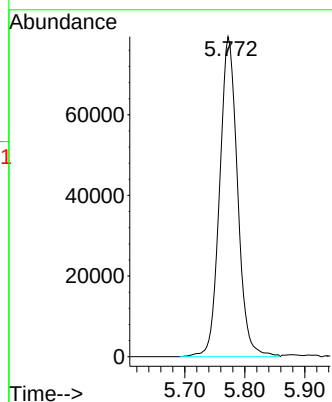
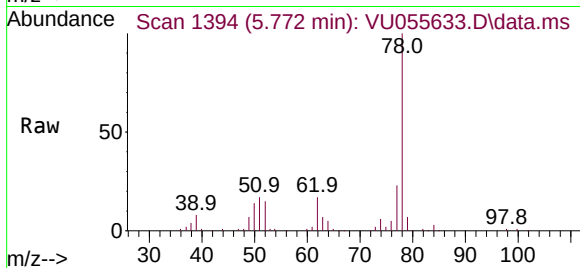




#33
Benzene
Concen: 3.376 ug/L
RT: 5.772 min Scan# 1394
Delta R.T. 0.000 min
Lab File: VU055633.D
Acq: 03 Oct 2023 12:03

Instrument :
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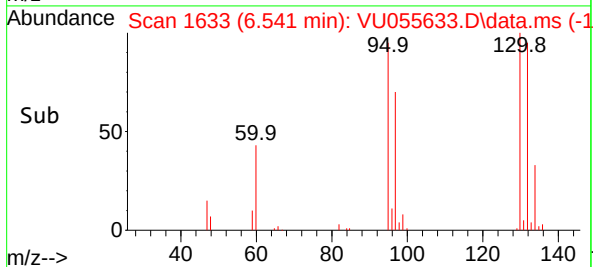
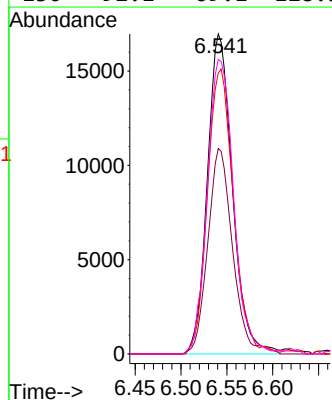
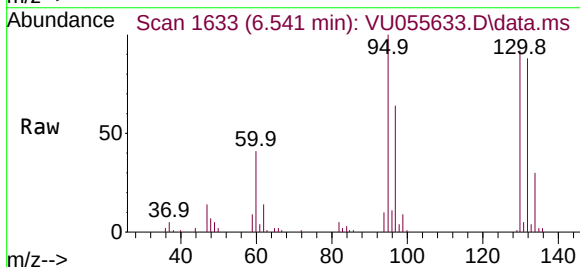
Tgt Ion: 78 Resp: 164226

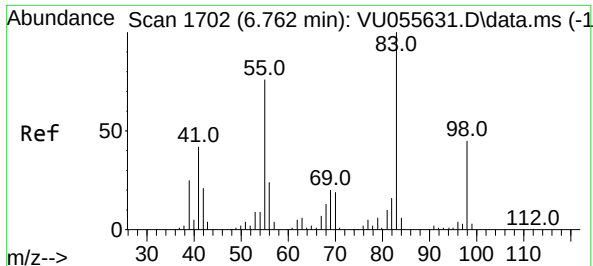


#34
Trichloroethene
Concen: 2.342 ug/L
RT: 6.541 min Scan# 1633
Delta R.T. 0.000 min
Lab File: VU055633.D
Acq: 03 Oct 2023 12:03

Tgt Ion: 95 Resp: 32220

Ion	Ratio	Lower	Upper
95	100		
97	64.2	45.4	84.2
132	87.8	65.2	121.2
130	92.1	69.1	128.3





#35

Methylcyclohexane

Concen: 0.290 ug/L

RT: 6.756 min Scan# 1

Delta R.T. -0.006 min

Lab File: VU055633.D

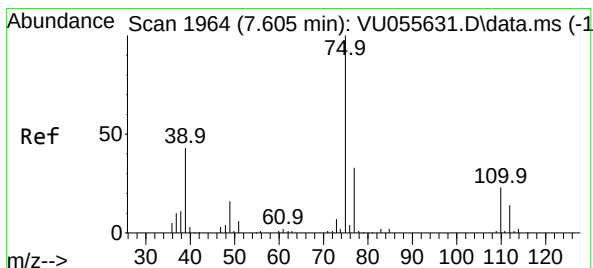
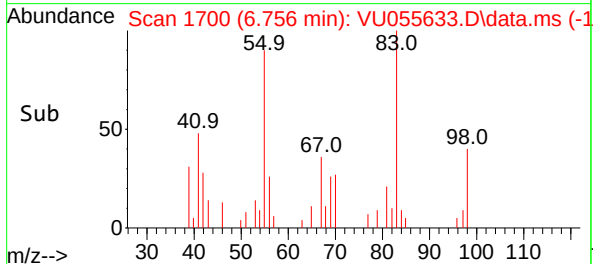
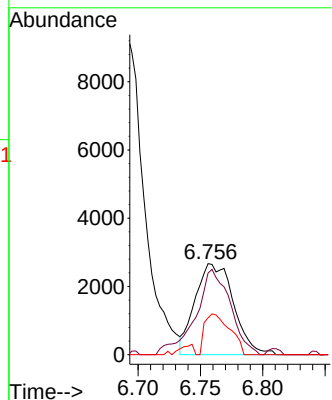
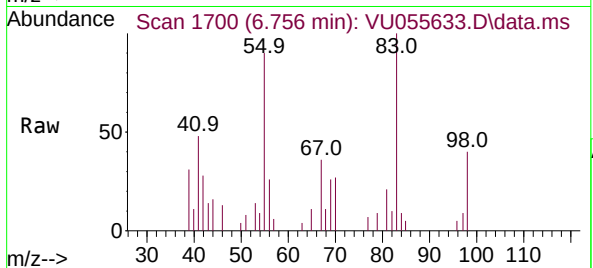
Acq: 03 Oct 2023 12:03

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 83	Resp: 5748
Ion Ratio	Lower Upper
83	100
55	84.9 59.1 88.7
98	29.4 36.3 54.5#



#39

cis-1,3-Dichloropropene

Concen: 0.115 ug/L

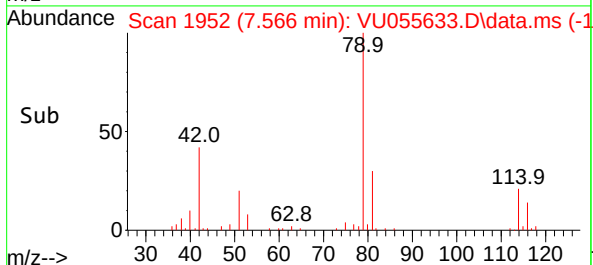
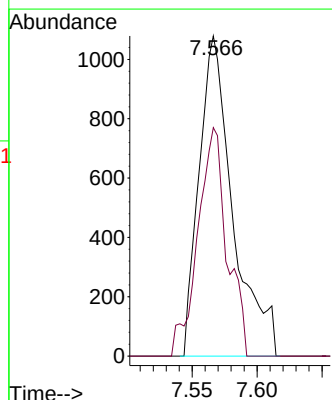
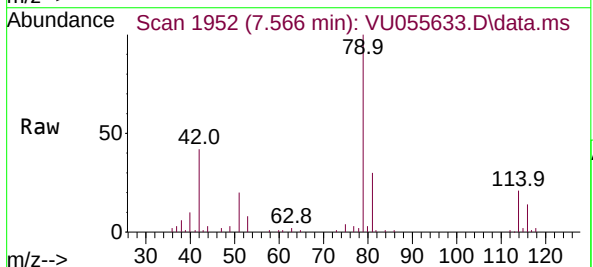
RT: 7.566 min Scan# 1952

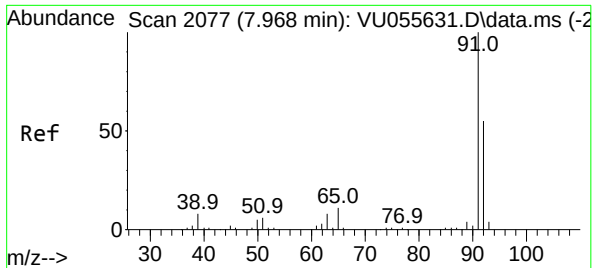
Delta R.T. -0.039 min

Lab File: VU055633.D

Acq: 03 Oct 2023 12:03

Tgt Ion: 75	Resp: 1953
Ion Ratio	Lower Upper
75	100
77	71.4 21.6 40.2#





#42

Toluene

Concen: 0.213 ug/L

RT: 7.971 min Scan# 2077

Delta R.T. 0.003 min

Lab File: VU055633.D

Acq: 03 Oct 2023 12:03

Instrument :

MSVOA_U

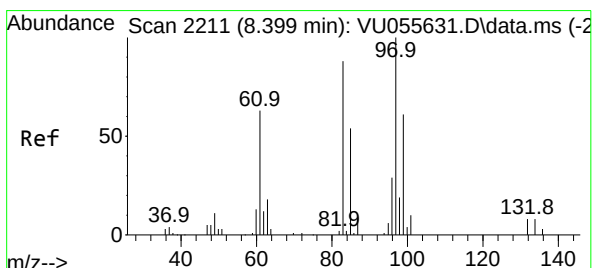
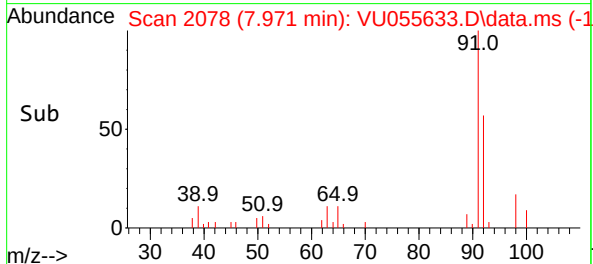
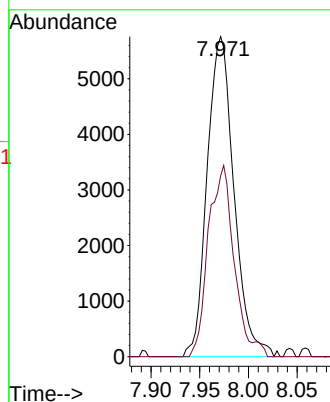
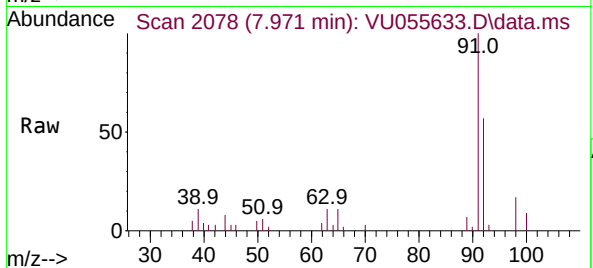
ClientSampleId :

Tgt Ion: 91 Resp: 11054

Ion Ratio Lower Upper

91 100

92 56.5 40.3 74.8



#45

1,1,2-Trichloroethane

Concen: 0.193 ug/L

RT: 8.364 min Scan# 2200

Delta R.T. -0.035 min

Lab File: VU055633.D

Acq: 03 Oct 2023 12:03

Tgt Ion: 97 Resp: 1719

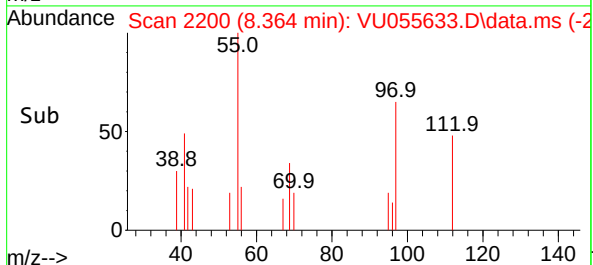
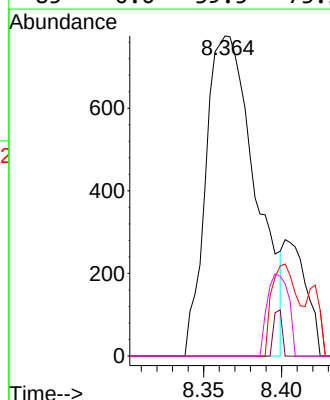
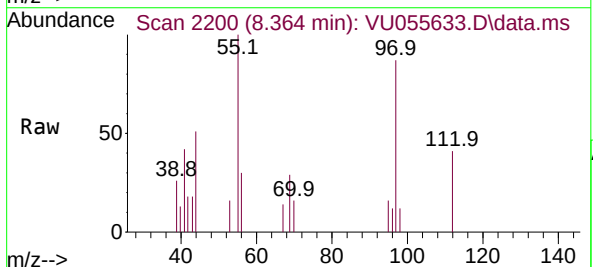
Ion Ratio Lower Upper

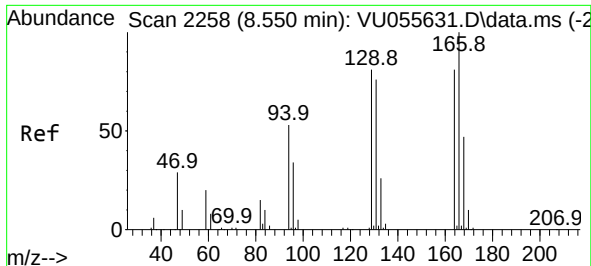
97 100

99 0.0 44.1 81.9#

83 0.0 61.5 114.1#

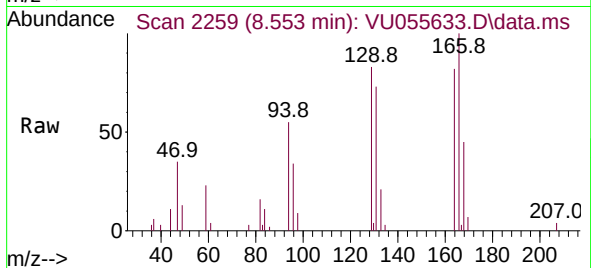
85 0.0 39.5 73.3#





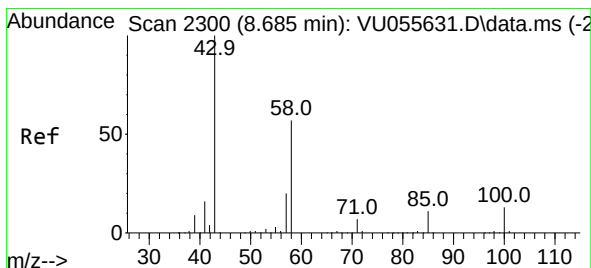
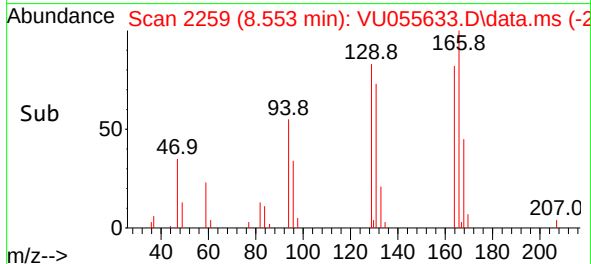
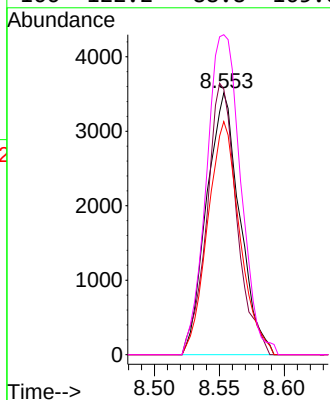
#47
Tetrachloroethene
Concen: 0.630 ug/L
RT: 8.553 min Scan# 2259
Delta R.T. 0.003 min
Lab File: VU055633.D
Acq: 03 Oct 2023 12:03

Instrument :
MSVOA_U
ClientSampleId :



Tgt Ion:164 Resp: 6218

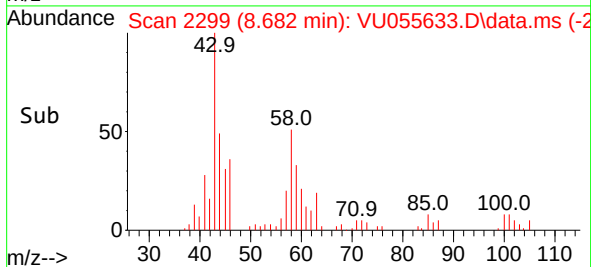
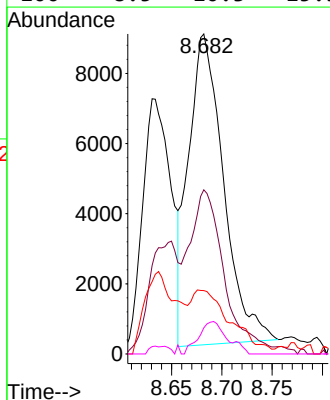
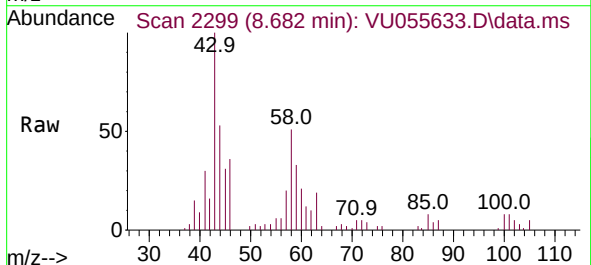
Ion	Ratio	Lower	Upper
164	100		
129	101.4	67.4	125.2
131	89.0	66.4	123.2
166	122.2	88.8	165.0

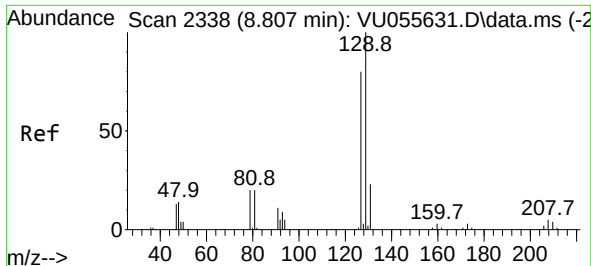


#48
2-Hexanone
Concen: 4.795 ug/L
RT: 8.682 min Scan# 2299
Delta R.T. -0.003 min
Lab File: VU055633.D
Acq: 03 Oct 2023 12:03

Tgt Ion: 43 Resp: 21445

Ion	Ratio	Lower	Upper
43	100		
58	48.7	48.5	72.7
57	23.1	17.0	25.4
100	8.5	10.3	15.5





#49

Dibromochloromethane

Concen: 0.623 ug/L

RT: 8.550 min Scan# 21

Delta R.T. -0.257 min

Lab File: VU055633.D

Acq: 03 Oct 2023 12:03

Instrument :

MSVOA_U

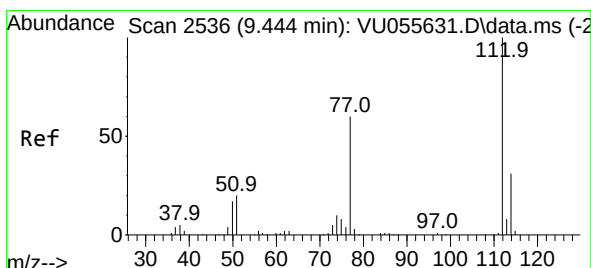
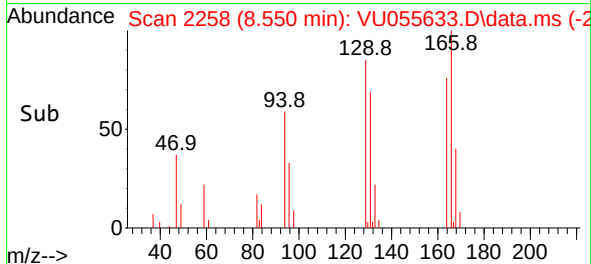
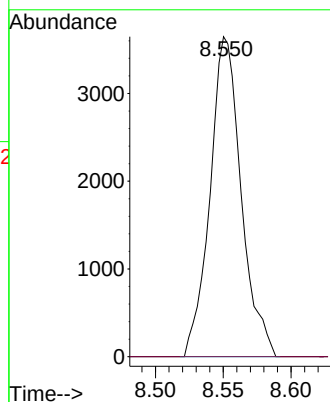
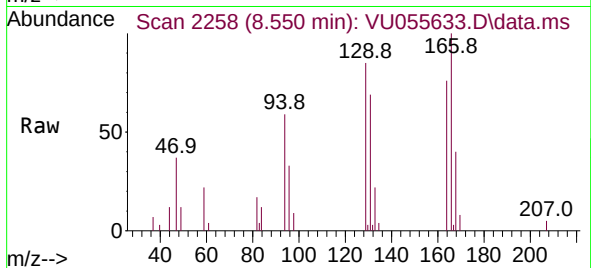
ClientSampleId :

Tgt Ion:129 Resp: 5830

Ion Ratio Lower Upper

129 100

127 0.0 56.8 105.6#



#51

Chlorobenzene

Concen: 6.200 ug/L

RT: 9.447 min Scan# 2537

Delta R.T. 0.003 min

Lab File: VU055633.D

Acq: 03 Oct 2023 12:03

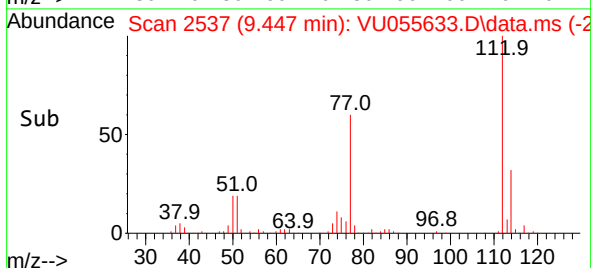
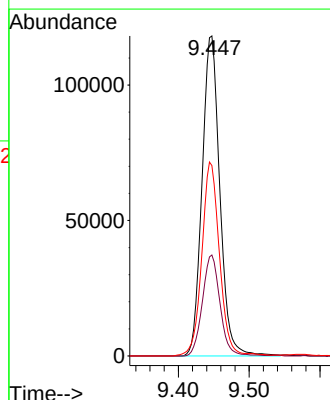
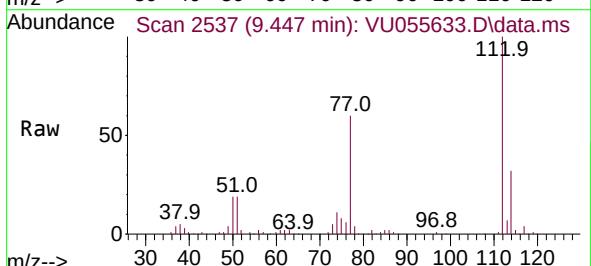
Tgt Ion:112 Resp: 206037

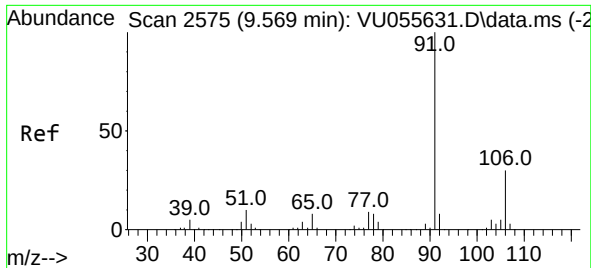
Ion Ratio Lower Upper

112 100

114 31.6 22.0 40.8

77 59.5 46.9 70.3

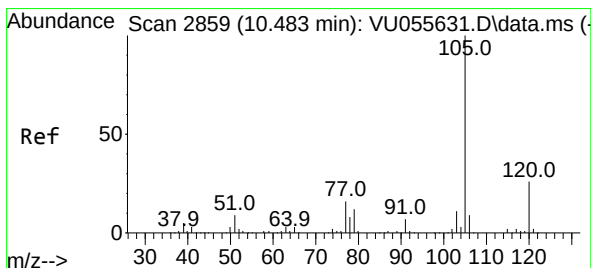
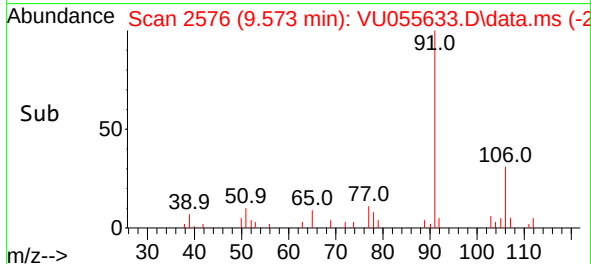
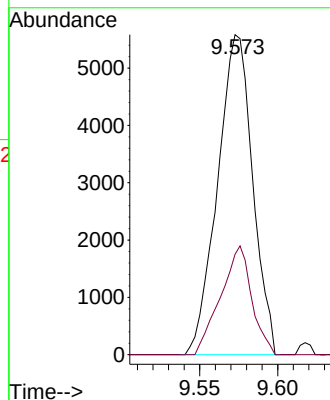
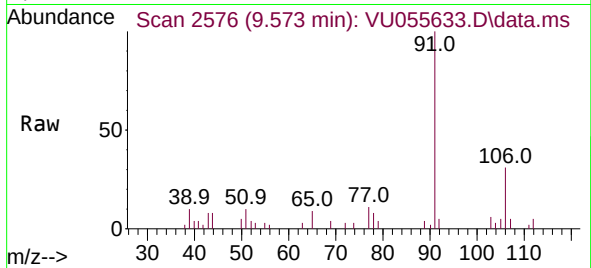




#52
Ethylbenzene
Concen: 0.157 ug/L
RT: 9.573 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU055633.D
Acq: 03 Oct 2023 12:03

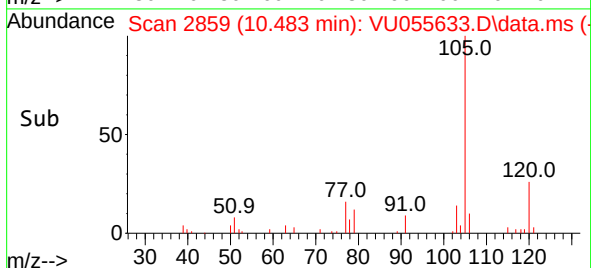
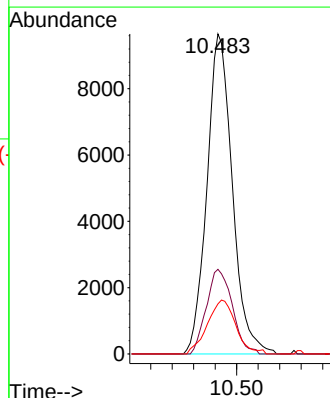
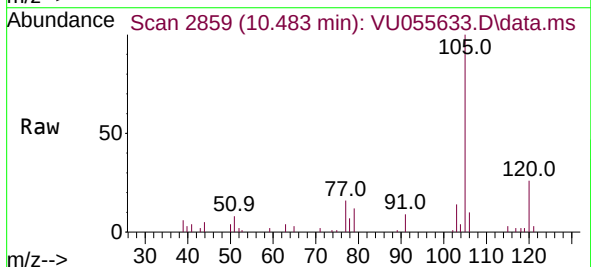
Instrument :
MSVOA_U
ClientSampleId :

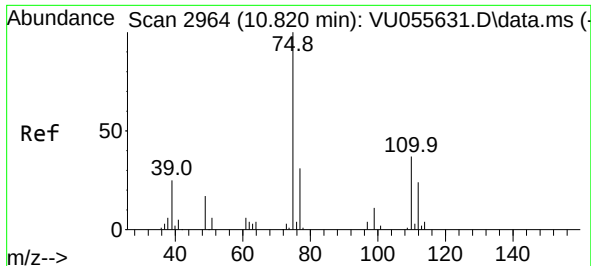
Tgt Ion: 91 Resp: 8738
Ion Ratio Lower Upper
91 100
106 31.4 22.4 41.6



#60
Isopropylbenzene
Concen: 0.293 ug/L
RT: 10.483 min Scan# 2859
Delta R.T. 0.000 min
Lab File: VU055633.D
Acq: 03 Oct 2023 12:03

Tgt Ion: 105 Resp: 15799
Ion Ratio Lower Upper
105 100
120 27.0 20.8 31.2
77 0.0 12.6 19.0#

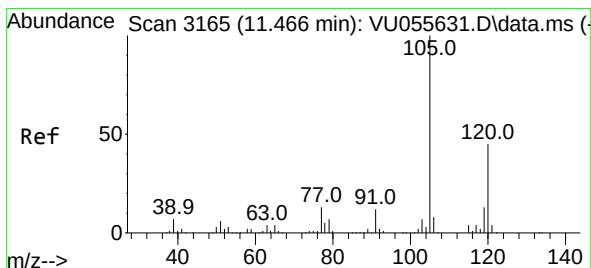
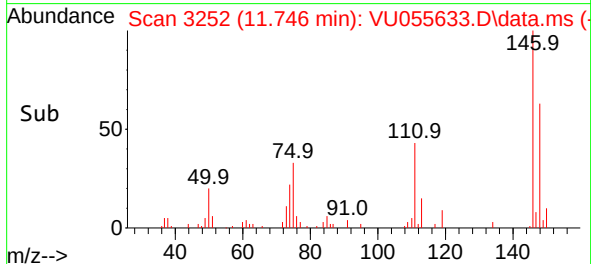
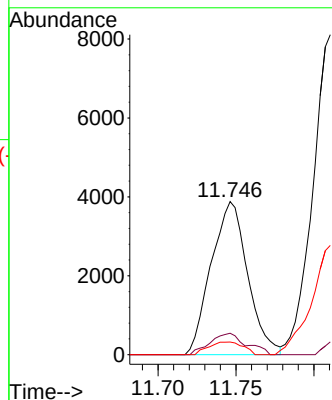
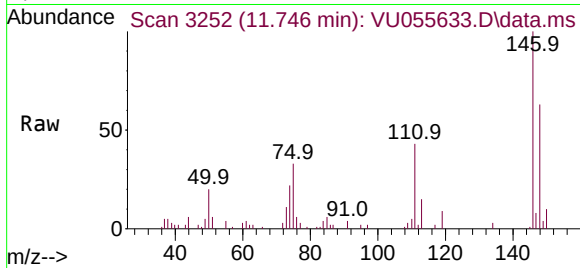




#61
1,2,3-Trichloropropane
Concen: 0.868 ug/L
RT: 11.746 min Scan# 3165
Delta R.T. 0.926 min
Lab File: VU055633.D
Acq: 03 Oct 2023 12:03

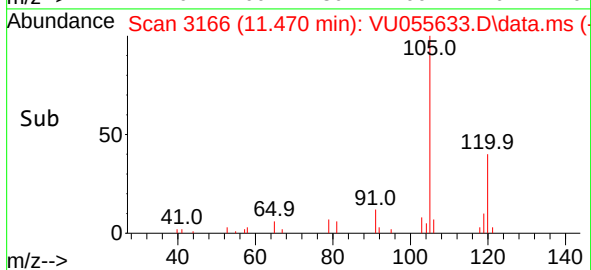
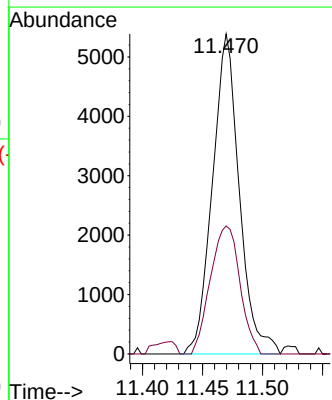
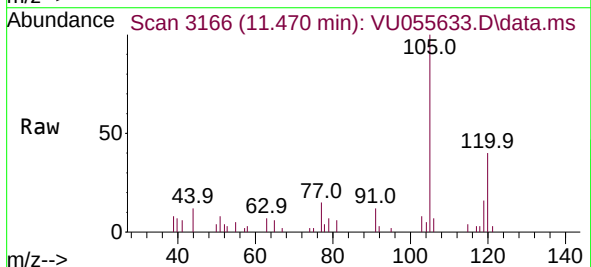
Instrument :
MSVOA_U
ClientSampleId :

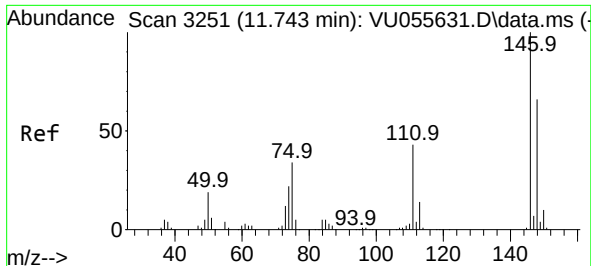
Tgt Ion: 75 Resp: 6332
Ion Ratio Lower Upper
75 100
110 13.9 30.6 45.8#
77 76.8 26.7 40.1#



#63
1,2,4-Trimethylbenzene
Concen: 0.199 ug/L
RT: 11.470 min Scan# 3166
Delta R.T. 0.003 min
Lab File: VU055633.D
Acq: 03 Oct 2023 12:03

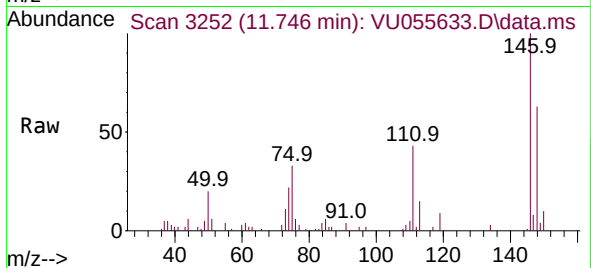
Tgt Ion: 105 Resp: 8369
Ion Ratio Lower Upper
105 100
120 44.0 34.9 52.3



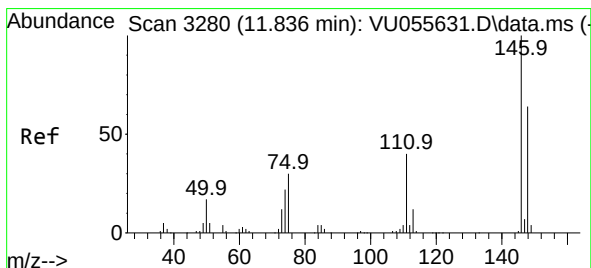
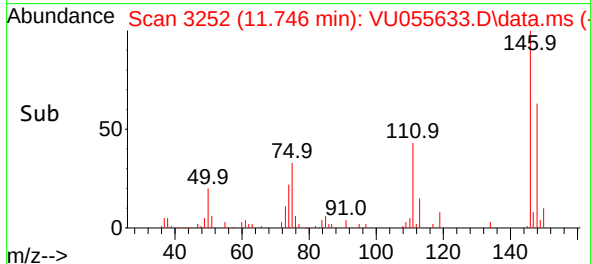
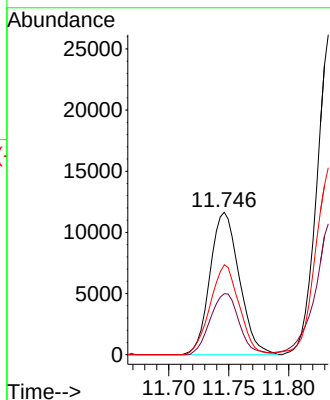


#64
1,3-Dichlorobenzene
Concen: 0.766 ug/L
RT: 11.746 min Scan# 31
Delta R.T. 0.003 min
Lab File: VU055633.D
Acq: 03 Oct 2023 12:03

Instrument :
MSVOA_U
ClientSampleId :

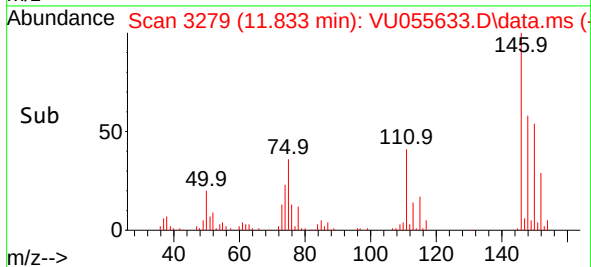
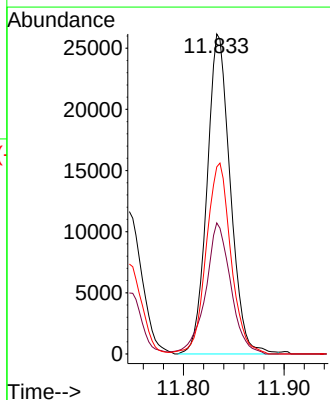
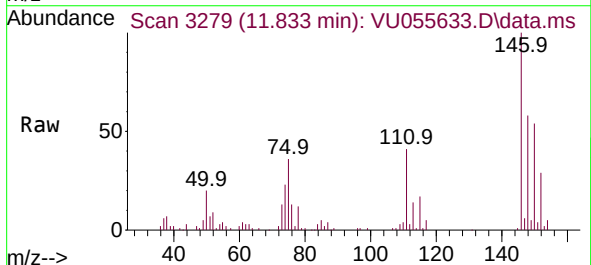


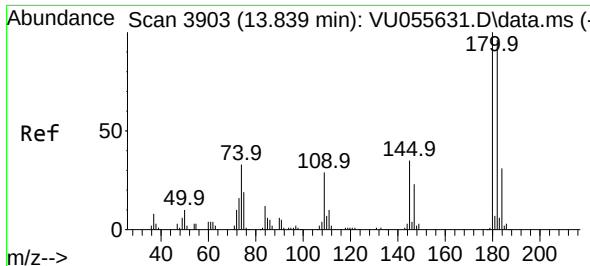
Tgt Ion:146 Resp: 19757
Ion Ratio Lower Upper
146 100
111 42.8 28.8 53.6
148 63.2 44.6 82.8



#65
1,4-Dichlorobenzene
Concen: 1.635 ug/L
RT: 11.833 min Scan# 3279
Delta R.T. -0.003 min
Lab File: VU055633.D
Acq: 03 Oct 2023 12:03

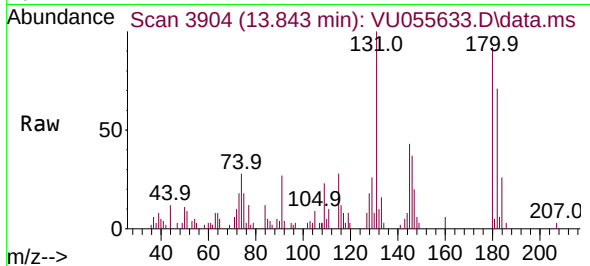
Tgt Ion:146 Resp: 42113
Ion Ratio Lower Upper
146 100
111 40.9 29.0 53.8
148 58.4 45.4 84.4



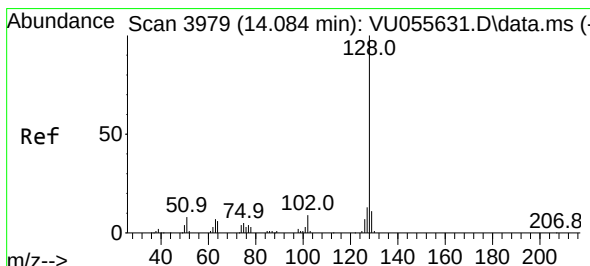
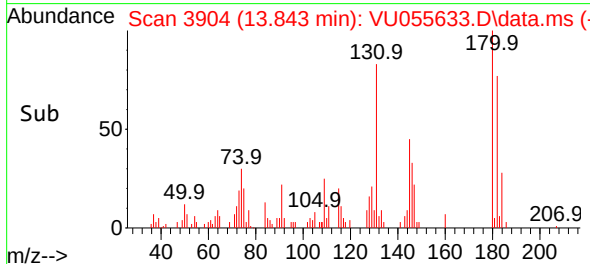
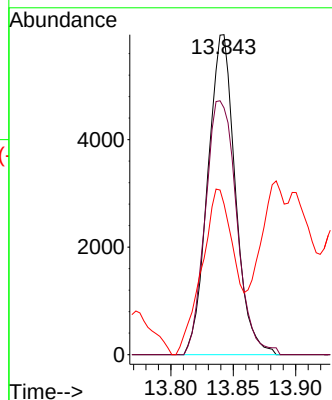


#70
1,2,4-trichlorobenzene
Concen: 0.677 ug/L
RT: 13.843 min Scan# 3904
Delta R.T. 0.003 min
Lab File: VU055633.D
Acq: 03 Oct 2023 12:03

Instrument :
MSVOA_U
ClientSampleId :



Tgt Ion:180 Resp: 9161
Ion Ratio Lower Upper
180 100
182 90.4 76.4 114.6
145 60.9 25.4 38.0#



#71
Naphthalene
Concen: 1.202 ug/L
RT: 14.087 min Scan# 3980
Delta R.T. 0.003 min
Lab File: VU055633.D
Acq: 03 Oct 2023 12:03

Tgt Ion:128 Resp: 23559
Ion Ratio Lower Upper
128 100
129 9.3 8.5 12.7
127 12.1 10.2 15.4

