

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU100323\
 Data File : VU055639.D
 Acq On : 03 Oct 2023 14:30
 Operator : MD/SY
 Sample : 04679-18DL 2000X
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 04 04:43:12 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	176220	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.415	117	182931	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.810	152	97357	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.599	65	85626	4.808	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	96.200%
7) Chloroethane-d5	1.911	69	69307	4.416	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	88.400%
11) 1,1-Dichloroethene-d2	2.566	65	34888	4.759	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	95.200%
20) 2-Butanone-d5	4.624	46	121125	37.652	ug/L	-0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	75.300%
24) Chloroform-d	5.058	84	141930	4.406	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.200%
26) 1,2-Dichloroethane-d4	5.701	65	65104	4.201	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	84.000%
32) Benzene-d6	5.727	84	283642	4.433	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.600%
36) 1,2-Dichloropropane-d6	6.689	67	85304	4.462	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	89.200%
41) Toluene-d8	7.897	98	246705	4.230	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	84.600%
43) trans-1,3-Dichloroprop...	8.177	79	28142	4.195	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	83.800%
46) 2-Hexanone-d5	8.631	63	72136	35.349	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	70.700%
56) 1,1,2,2-Tetrachloroeth...	10.753	84	58197	4.062	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	81.200%
66) 1,2-Dichlorobenzene-d4	12.193	152	83218	4.235	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	84.800%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.602	62	2035	0.125	ug/L #	14
16) Methylene chloride	3.042	84	13012	0.881	ug/L	98
22) cis-1,2-Dichloroethene	4.666	96	54183	3.763	ug/L	95
34) Trichloroethene	6.541	95	10758	0.722	ug/L	95
35) Methylcyclohexane	6.689	83	20349	0.949	ug/L #	20
37) 1,2-Dichloropropane	6.692	63	9612	0.698	ug/L #	90
42) Toluene	7.968	91	224956	4.006	ug/L	99
47) Tetrachloroethene	8.550	164	29004	2.715	ug/L	96
48) 2-Hexanone	8.682	43	16144	3.335	ug/L #	88
49) Dibromochloromethane	8.550	129	28643	2.830	ug/L #	9
51) Chlorobenzene	9.444	112	10266	0.285	ug/L	96
52) Ethylbenzene	9.569	91	9484	0.158	ug/L	94
53) m,p-Xylene	9.692	106	14056	0.623	ug/L	91
54) o-Xylene	10.100	106	5024	0.229	ug/L	100
61) 1,2,3-Trichloropropane	11.746	75	2879	0.379	ug/L #	57
64) 1,3-Dichlorobenzene	11.746	146	9160	0.341	ug/L	97
65) 1,4-Dichlorobenzene	11.833	146	49144	1.830	ug/L	99
67) 1,2-Dichlorobenzene	12.209	146	13784	0.560	ug/L	97
69) 1,3,5-Trichlorobenzene	13.839	180	120490	6.513	ug/L	100

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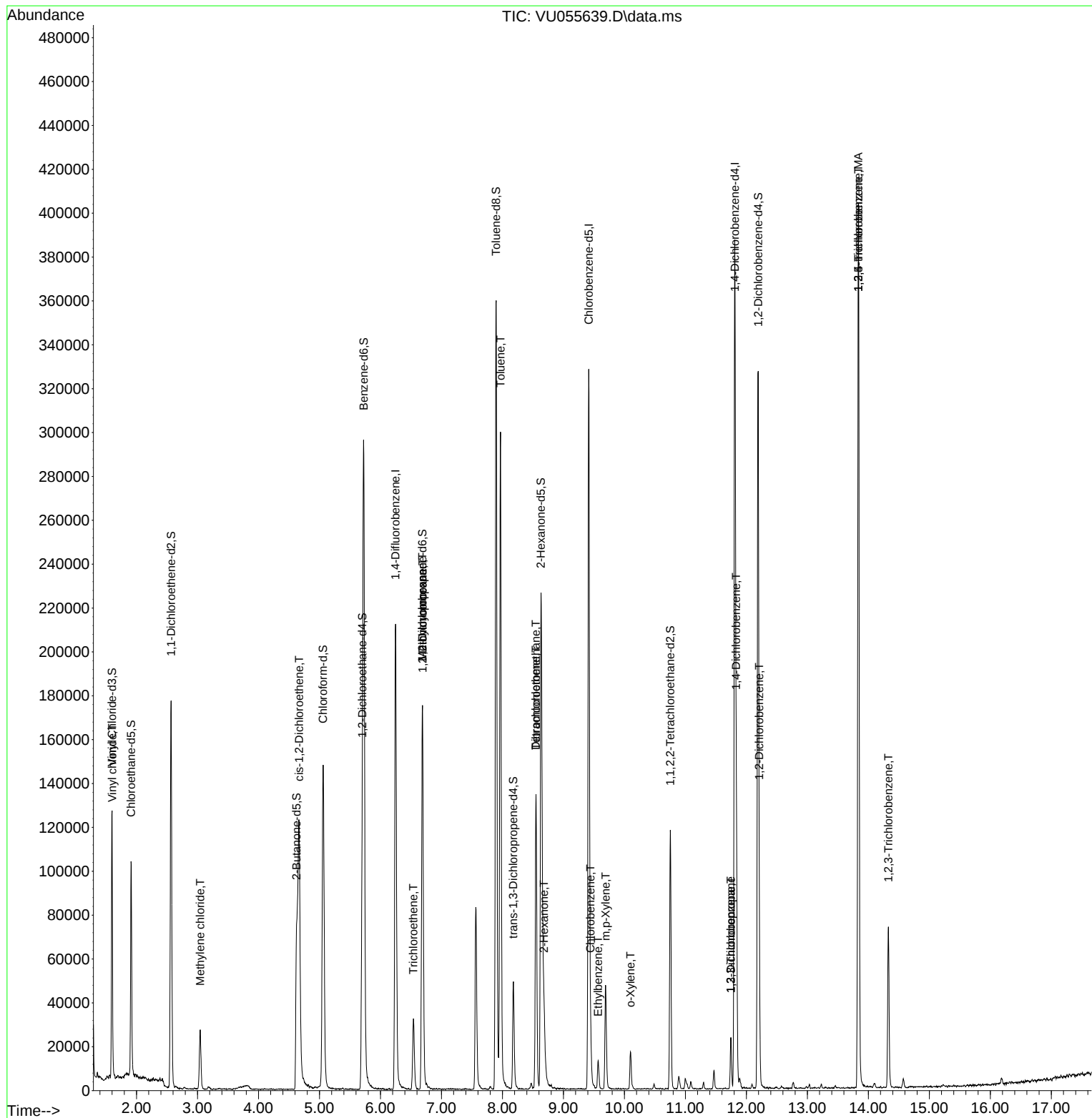
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 1,2,4-trichlorobenzene	13.839	180	120490	8.543	ug/L	99
72) 1,2,3-Trichlorobenzene	14.328	180	22388	1.824	ug/L	97

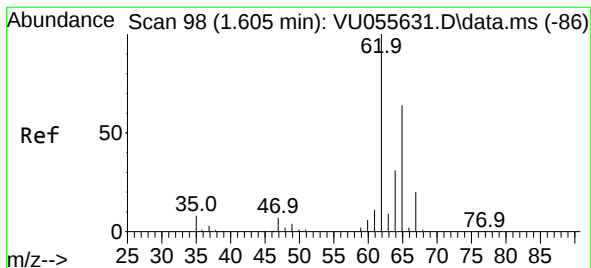
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 0.125 ug/L

RT: 1.602 min Scan# 91

Delta R.T. -0.003 min

Lab File: VU055639.D

Acq: 03 Oct 2023 14:30

Instrument :

MSVOA_U

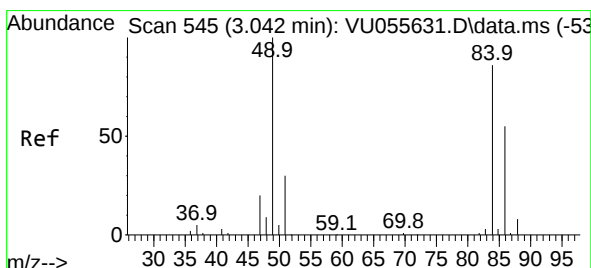
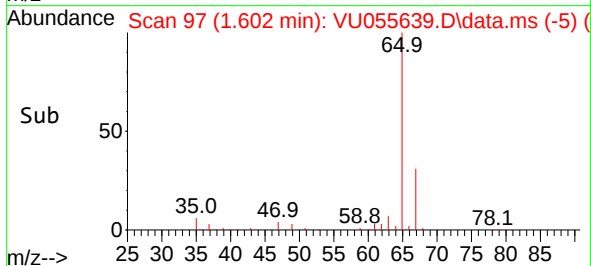
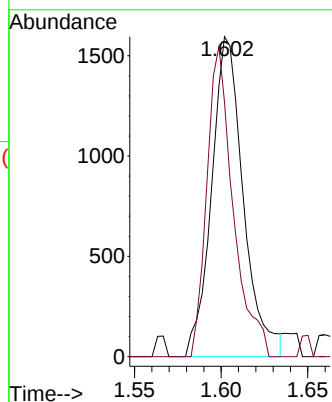
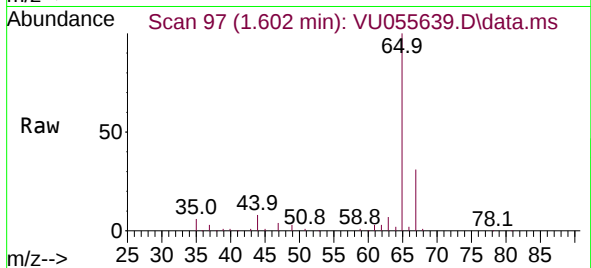
ClientSampleId :

Tgt Ion: 62 Resp: 2035

Ion Ratio Lower Upper

62 100

64 79.6 22.3 41.5#



#16

Methylene chloride

Concen: 0.881 ug/L

RT: 3.042 min Scan# 545

Delta R.T. 0.000 min

Lab File: VU055639.D

Acq: 03 Oct 2023 14:30

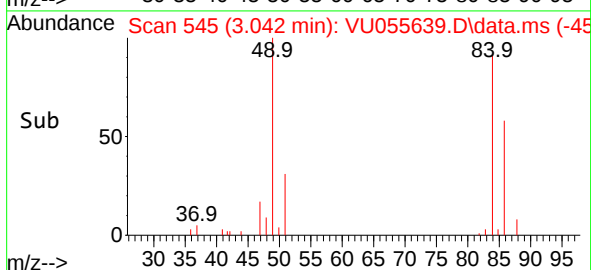
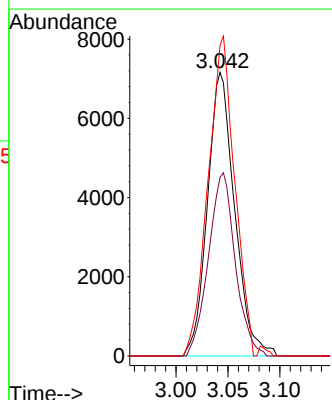
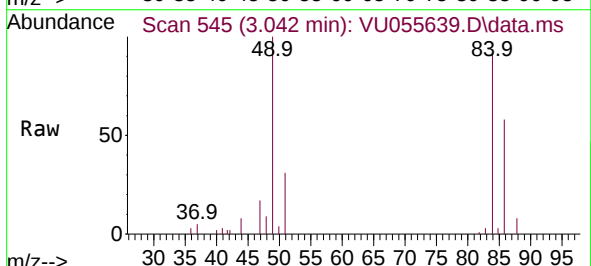
Tgt Ion: 84 Resp: 13012

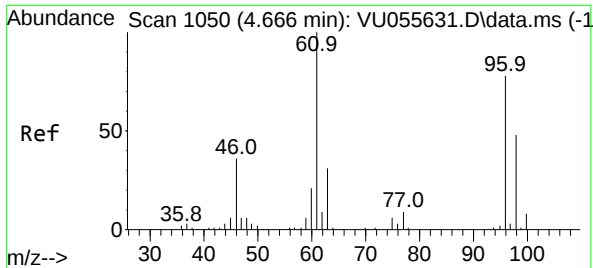
Ion Ratio Lower Upper

84 100

86 63.0 44.9 83.3

49 109.6 78.8 146.3

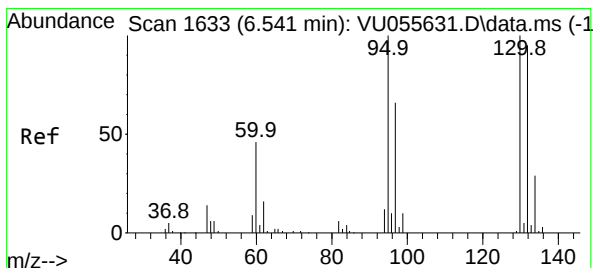
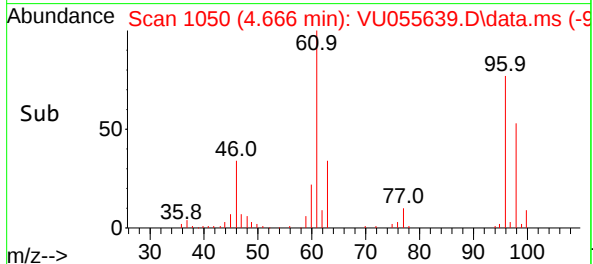
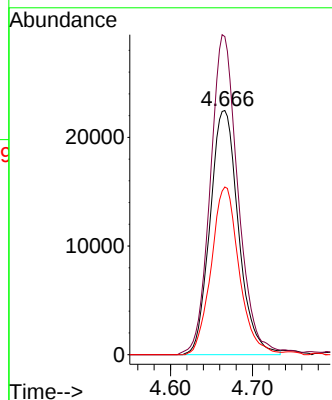
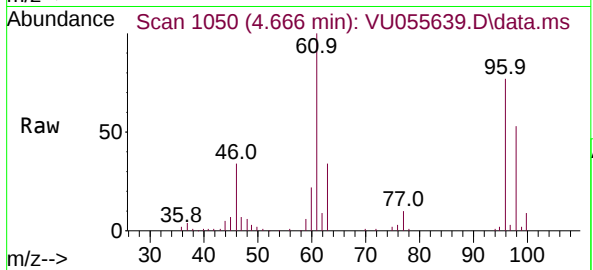




#22
 cis-1,2-Dichloroethene
 Concen: 3.763 ug/L
 RT: 4.666 min Scan# 1050
 Delta R.T. 0.000 min
 Lab File: VU055639.D
 Acq: 03 Oct 2023 14:30

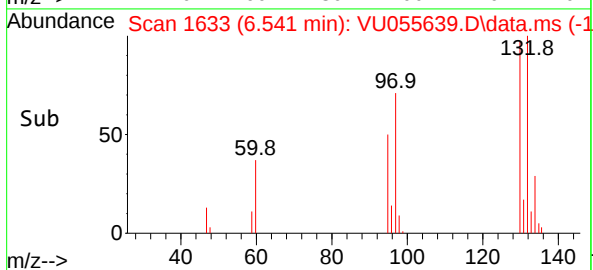
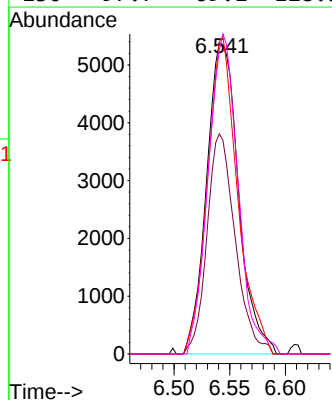
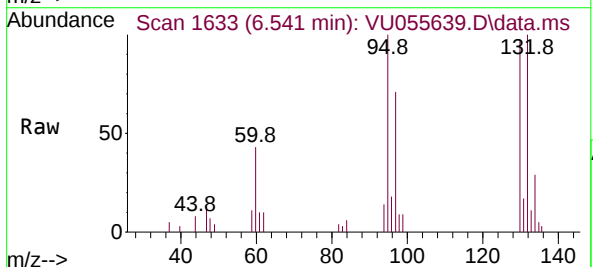
Instrument :
 MSVOA_U
 ClientSampleId :

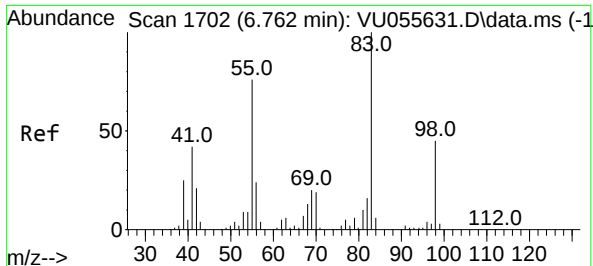
Tgt Ion: 96 Resp: 54183
 Ion Ratio Lower Upper
 96 100
 61 130.3 87.8 163.2
 98 68.7 44.4 82.4



#34
 Trichloroethene
 Concen: 0.722 ug/L
 RT: 6.541 min Scan# 1633
 Delta R.T. 0.000 min
 Lab File: VU055639.D
 Acq: 03 Oct 2023 14:30

Tgt Ion: 95 Resp: 10758
 Ion Ratio Lower Upper
 95 100
 97 70.8 45.4 84.2
 132 100.3 65.2 121.2
 130 97.7 69.1 128.3

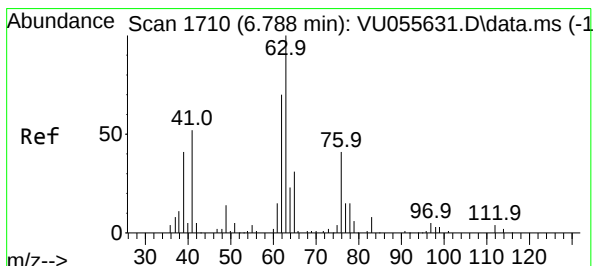
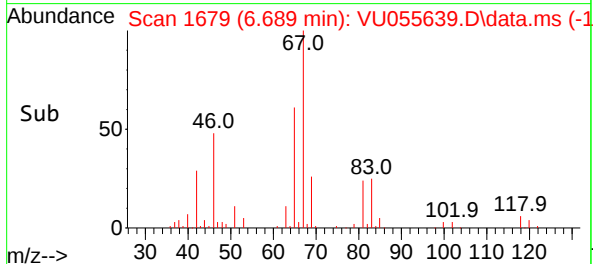
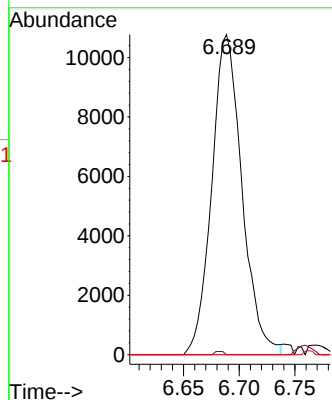
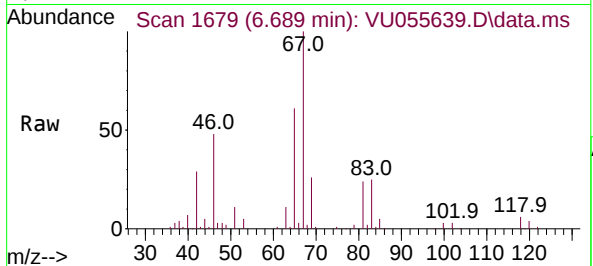




#35
Methylcyclohexane
Concen: 0.949 ug/L
RT: 6.689 min Scan# 1
Delta R.T. -0.074 min
Lab File: VU055639.D
Acq: 03 Oct 2023 14:30

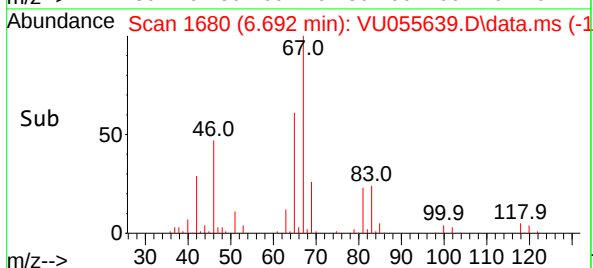
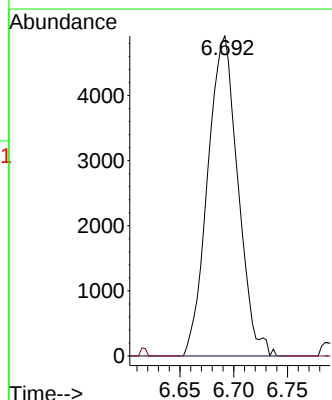
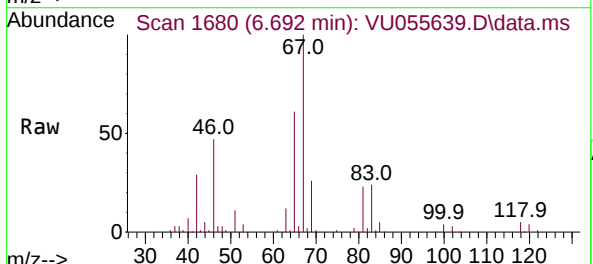
Instrument :
MSVOA_U
ClientSampleId :

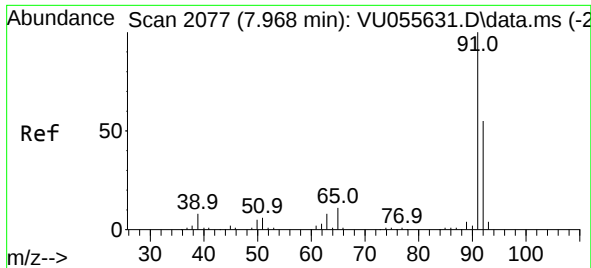
Tgt Ion: 83 Resp: 20349
Ion Ratio Lower Upper
83 100
55 0.3 59.1 88.7#
98 1.2 36.3 54.5#



#37
1,2-Dichloropropane
Concen: 0.698 ug/L
RT: 6.692 min Scan# 1680
Delta R.T. -0.096 min
Lab File: VU055639.D
Acq: 03 Oct 2023 14:30

Tgt Ion: 63 Resp: 9612
Ion Ratio Lower Upper
63 100
112 0.5 3.0 4.6#





#42

Toluene

Concen: 4.006 ug/L

RT: 7.968 min Scan# 2077

Delta R.T. 0.000 min

Lab File: VU055639.D

Acq: 03 Oct 2023 14:30

Instrument :

MSVOA_U

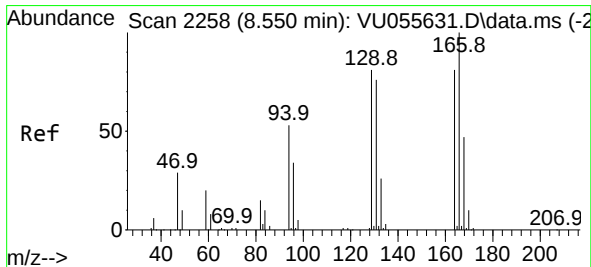
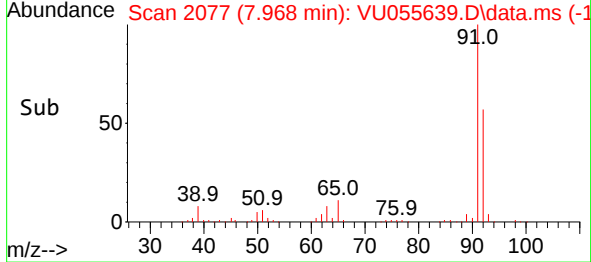
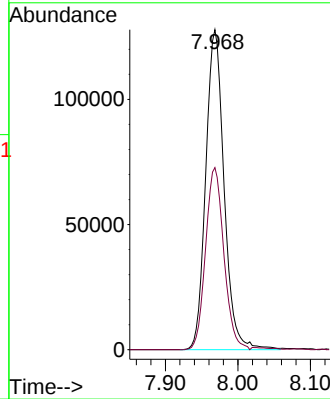
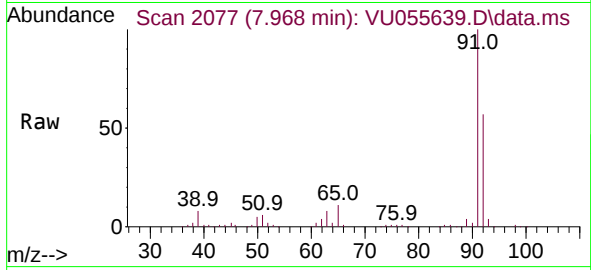
ClientSampleId :

Tgt Ion: 91 Resp: 224956

Ion Ratio Lower Upper

91 100

92 56.9 40.3 74.8



#47

Tetrachloroethene

Concen: 2.715 ug/L

RT: 8.550 min Scan# 2258

Delta R.T. 0.000 min

Lab File: VU055639.D

Acq: 03 Oct 2023 14:30

Tgt Ion: 164 Resp: 29004

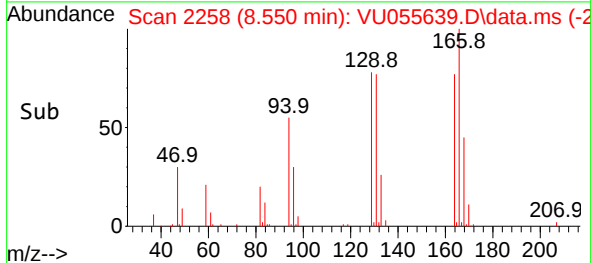
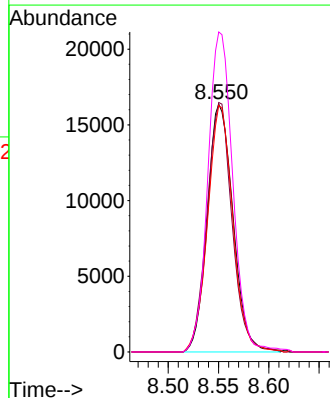
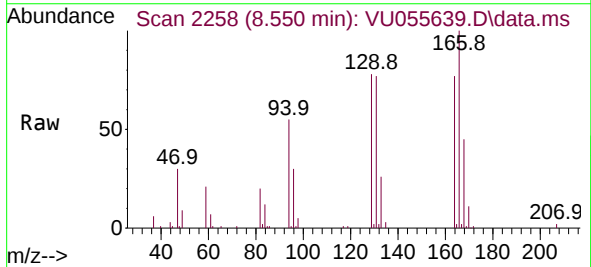
Ion Ratio Lower Upper

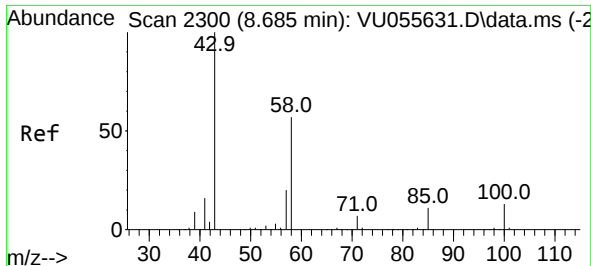
164 100

129 100.6 67.4 125.2

131 99.5 66.4 123.2

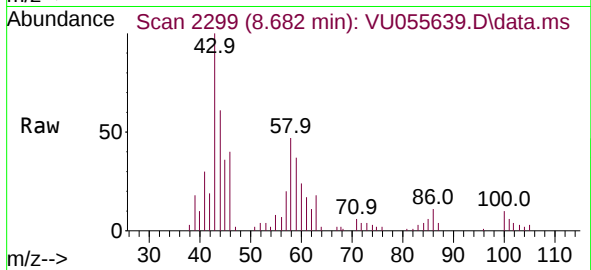
166 129.1 88.8 165.0



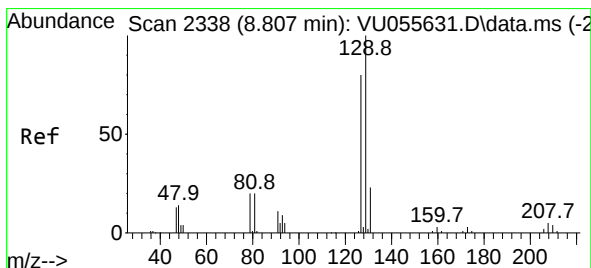
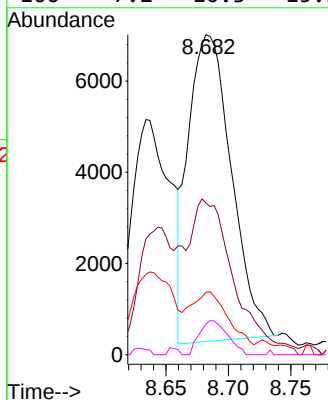
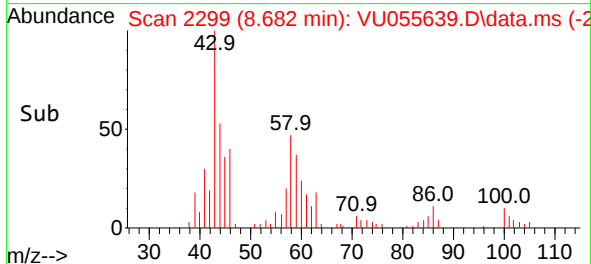


#48
2-Hexanone
Concen: 3.335 ug/L
RT: 8.682 min Scan# 21
Delta R.T. -0.003 min
Lab File: VU055639.D
Acq: 03 Oct 2023 14:30

Instrument :
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ClientSampleId :

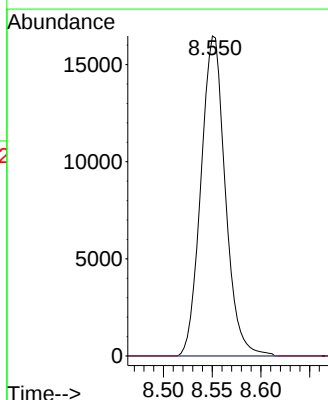
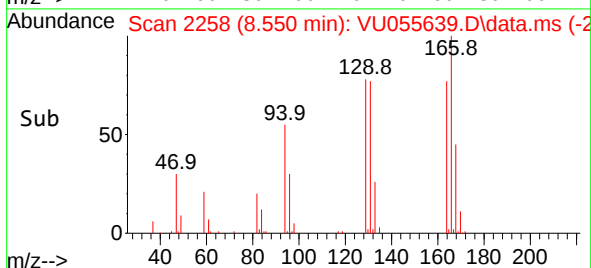
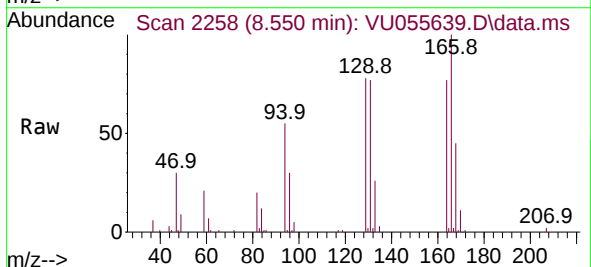


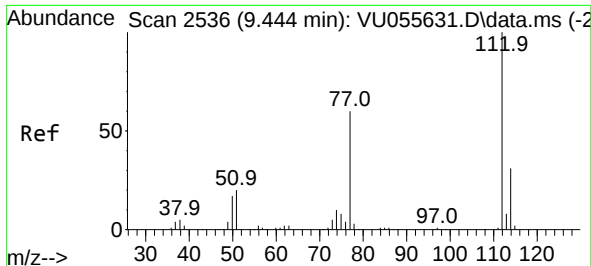
Tgt Ion: 43 Resp: 16144
Ion Ratio Lower Upper
43 100
58 49.9 48.5 72.7
57 19.1 17.0 25.4
100 7.2 10.3 15.5#



#49
Dibromochloromethane
Concen: 2.830 ug/L
RT: 8.550 min Scan# 2258
Delta R.T. -0.257 min
Lab File: VU055639.D
Acq: 03 Oct 2023 14:30

Tgt Ion:129 Resp: 28643
Ion Ratio Lower Upper
129 100
127 0.0 56.8 105.6#

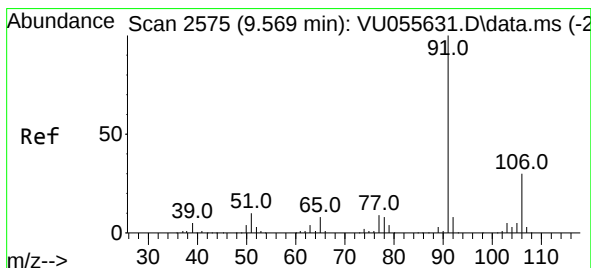
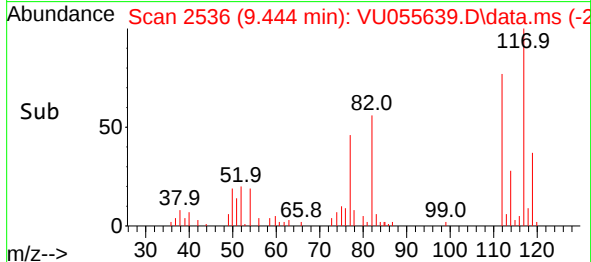
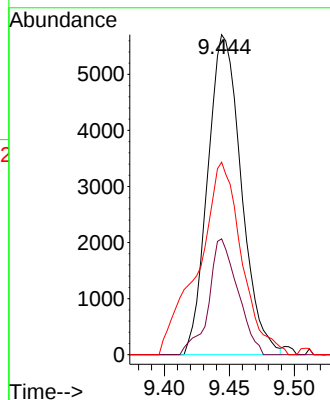
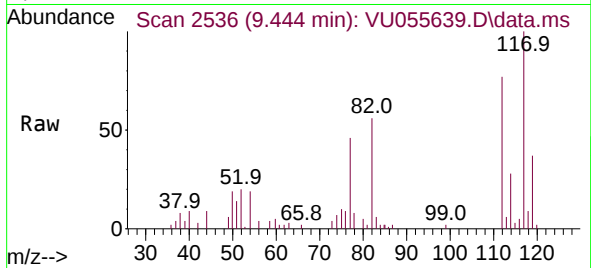




#51
Chlorobenzene
Concen: 0.285 ug/L
RT: 9.444 min Scan# 2536
Delta R.T. 0.000 min
Lab File: VU055639.D
Acq: 03 Oct 2023 14:30

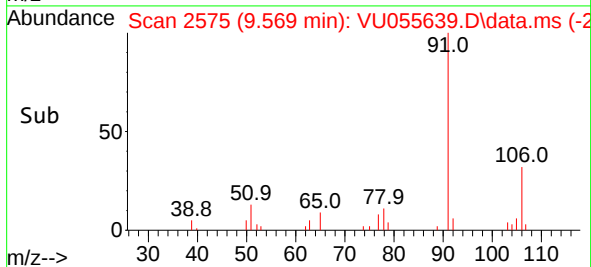
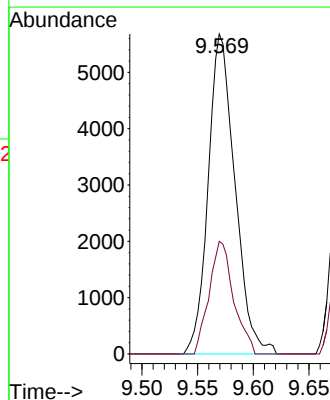
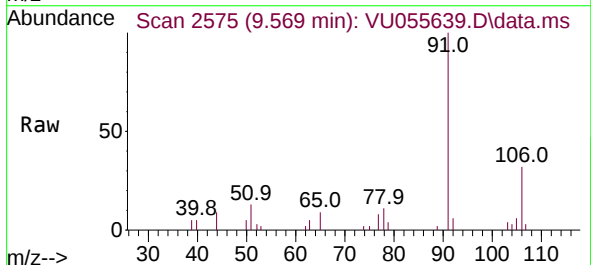
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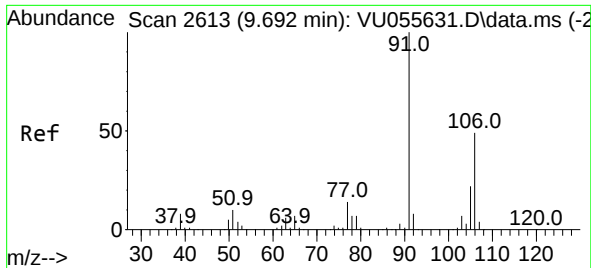
Tgt Ion:112 Resp: 10266
Ion Ratio Lower Upper
112 100
114 36.2 22.0 40.8
77 60.2 46.9 70.3



#52
Ethylbenzene
Concen: 0.158 ug/L
RT: 9.569 min Scan# 2575
Delta R.T. 0.000 min
Lab File: VU055639.D
Acq: 03 Oct 2023 14:30

Tgt Ion: 91 Resp: 9484
Ion Ratio Lower Upper
91 100
106 35.2 22.4 41.6

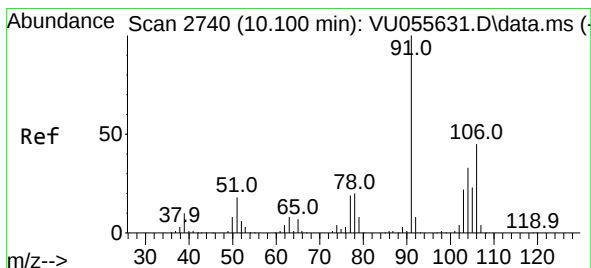
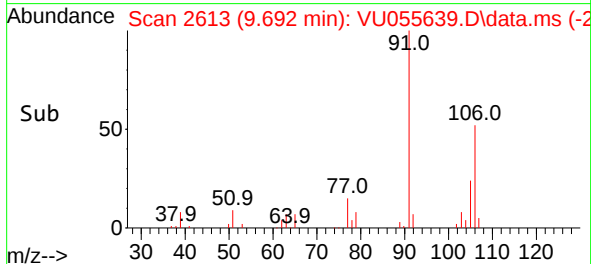
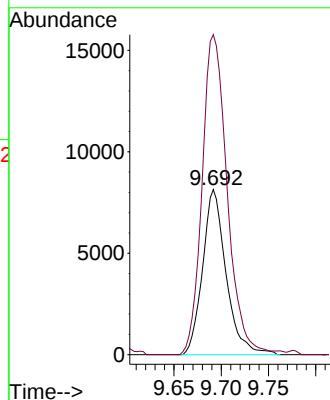
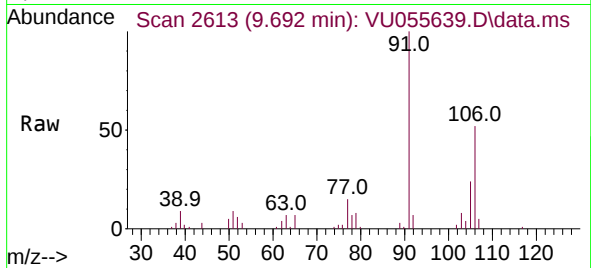




#53
m,p-Xylene
Concen: 0.623 ug/L
RT: 9.692 min Scan# 2613
Delta R.T. 0.000 min
Lab File: VU055639.D
Acq: 03 Oct 2023 14:30

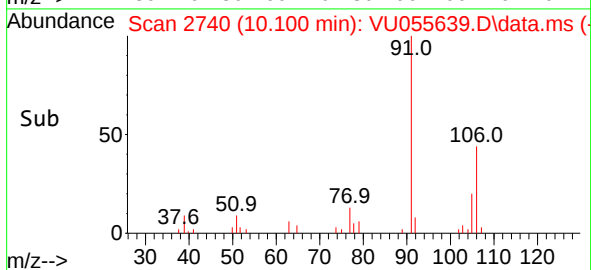
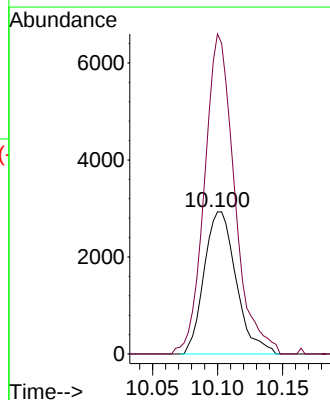
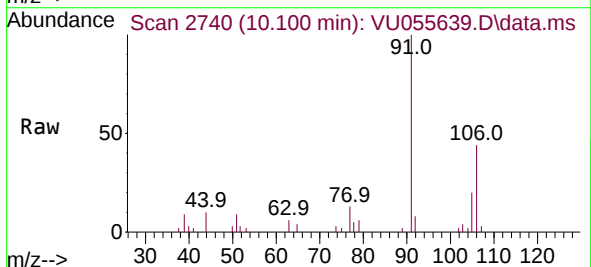
Instrument :
MSVOA_U
ClientSampleId :

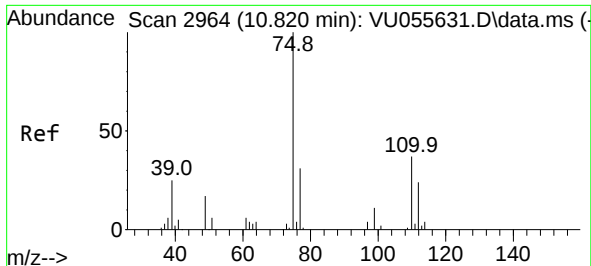
Tgt Ion:106 Resp: 14056
Ion Ratio Lower Upper
106 100
91 193.7 144.8 269.0



#54
o-Xylene
Concen: 0.229 ug/L
RT: 10.100 min Scan# 2740
Delta R.T. 0.000 min
Lab File: VU055639.D
Acq: 03 Oct 2023 14:30

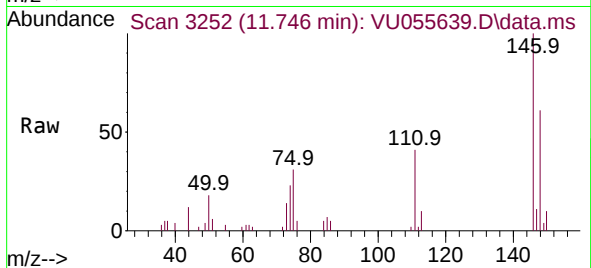
Tgt Ion:106 Resp: 5024
Ion Ratio Lower Upper
106 100
91 225.1 157.6 292.8



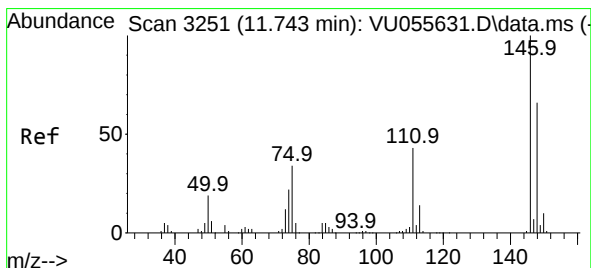
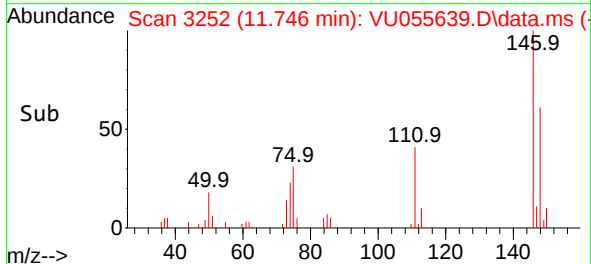
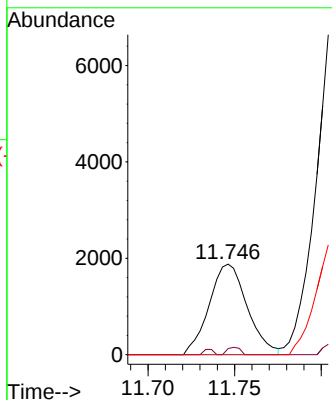


#61
1,2,3-Trichloropropane
Concen: 0.379 ug/L
RT: 11.746 min Scan# 31
Delta R.T. 0.926 min
Lab File: VU055639.D
Acq: 03 Oct 2023 14:30

Instrument :
MSVOA_U
ClientSampleId :

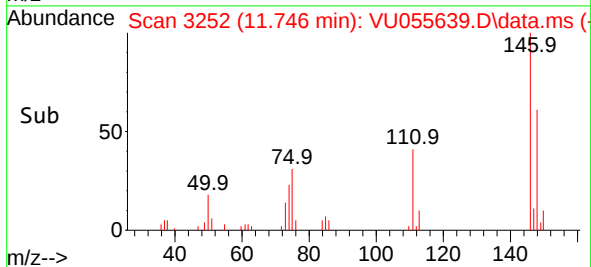
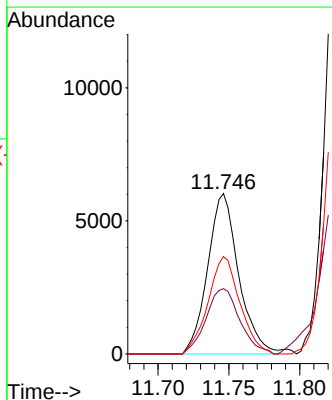
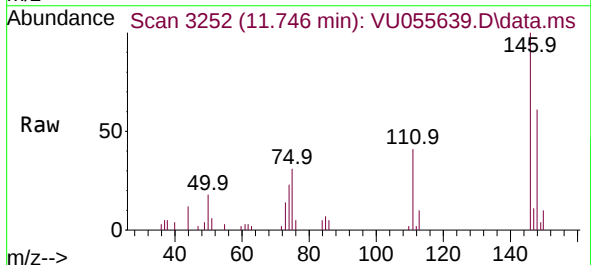


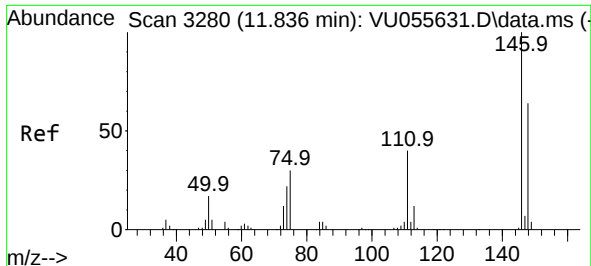
Tgt Ion: 75 Resp: 2879
Ion Ratio Lower Upper
75 100
110 2.7 30.6 45.8#
77 19.7 26.7 40.1#



#64
1,3-Dichlorobenzene
Concen: 0.341 ug/L
RT: 11.746 min Scan# 3252
Delta R.T. 0.003 min
Lab File: VU055639.D
Acq: 03 Oct 2023 14:30

Tgt Ion:146 Resp: 9160
Ion Ratio Lower Upper
146 100
111 40.7 28.8 53.6
148 60.7 44.6 82.8

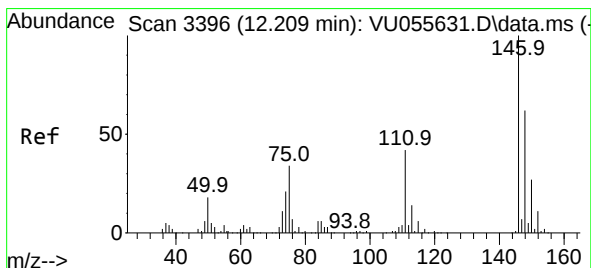
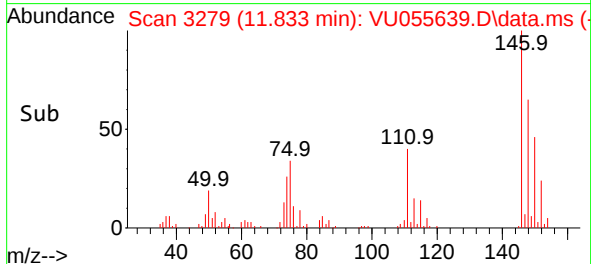
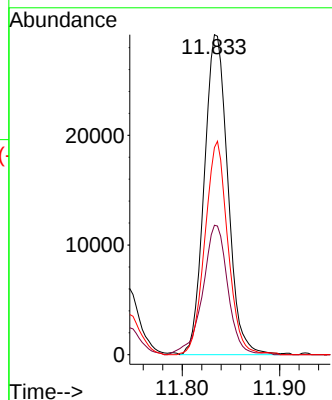
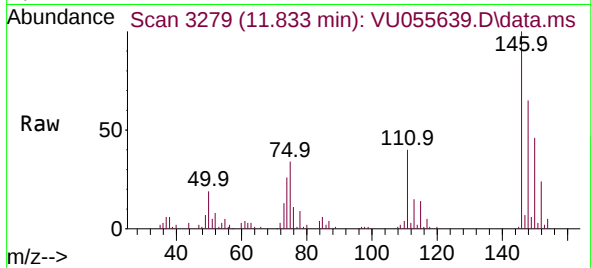




#65
1,4-Dichlorobenzene
Concen: 1.830 ug/L
RT: 11.833 min Scan# 31
Delta R.T. -0.003 min
Lab File: VU055639.D
Acq: 03 Oct 2023 14:30

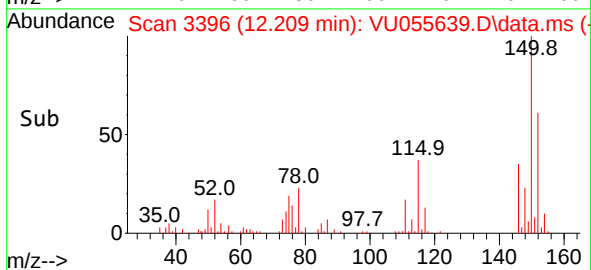
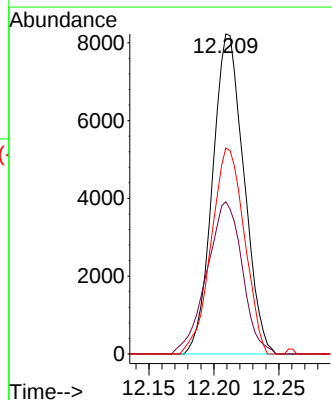
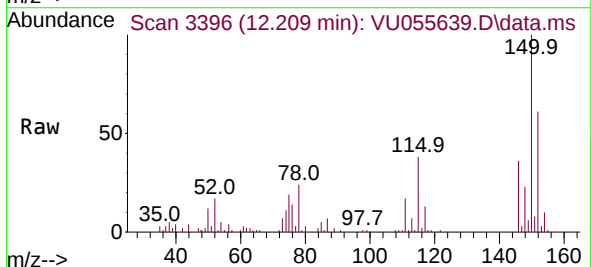
Instrument :
MSVOA_U
ClientSampleId :

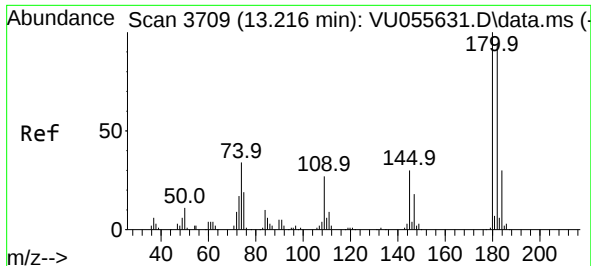
Tgt Ion:146 Resp: 49144
Ion Ratio Lower Upper
146 100
111 40.5 29.0 53.8
148 64.7 45.4 84.4



#67
1,2-Dichlorobenzene
Concen: 0.560 ug/L
RT: 12.209 min Scan# 3396
Delta R.T. 0.000 min
Lab File: VU055639.D
Acq: 03 Oct 2023 14:30

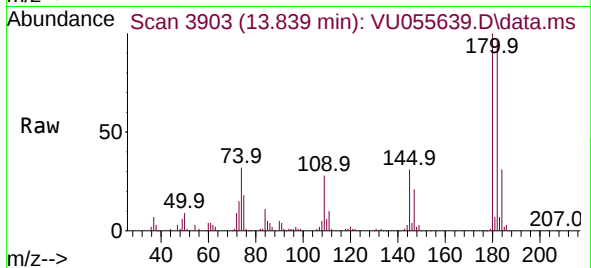
Tgt Ion:146 Resp: 13784
Ion Ratio Lower Upper
146 100
111 47.6 34.6 52.0
148 64.3 51.8 77.8



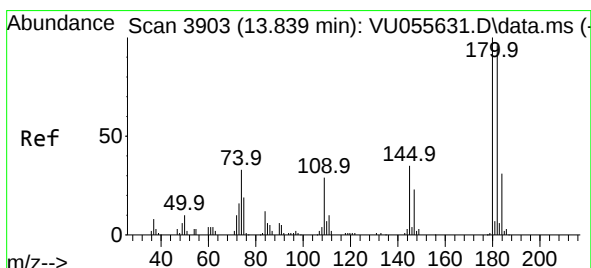
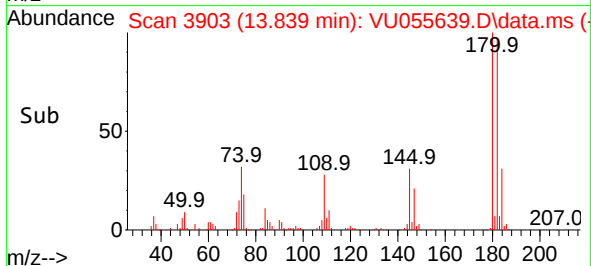
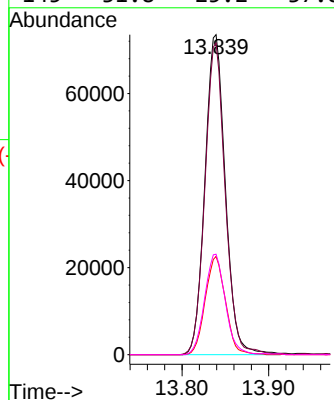


#69
 1,3,5-Trichlorobenzene
 Concen: 6.513 ug/L
 RT: 13.839 min Scan# 3903
 Delta R.T. 0.624 min
 Lab File: VU055639.D
 Acq: 03 Oct 2023 14:30

Instrument :
 MSVOA_U
 ClientSampleId :

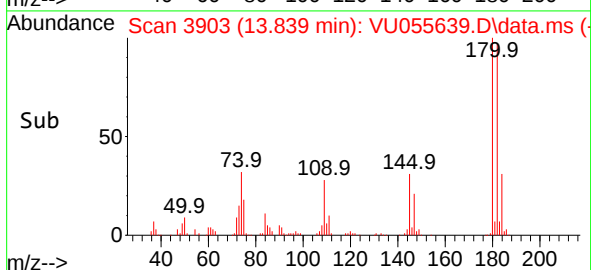
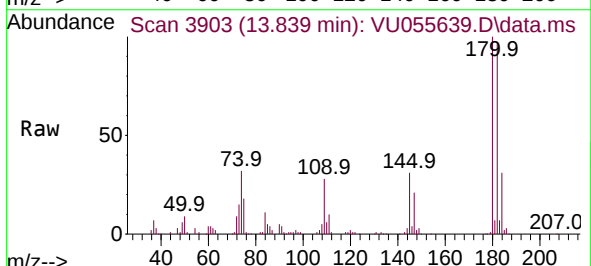
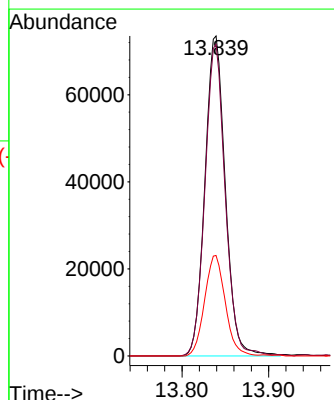


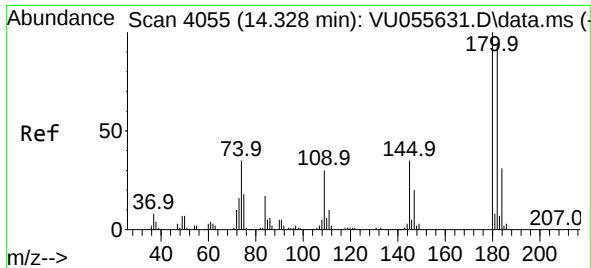
Tgt Ion:180 Resp: 120490
 Ion Ratio Lower Upper
 180 100
 182 96.5 77.1 115.7
 184 30.4 24.0 36.0
 145 31.8 25.2 37.8



#70
 1,2,4-trichlorobenzene
 Concen: 8.543 ug/L
 RT: 13.839 min Scan# 3903
 Delta R.T. 0.000 min
 Lab File: VU055639.D
 Acq: 03 Oct 2023 14:30

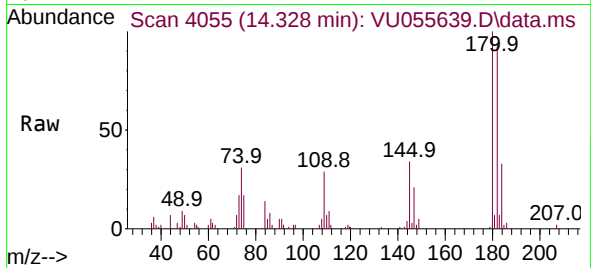
Tgt Ion:180 Resp: 120490
 Ion Ratio Lower Upper
 180 100
 182 96.5 76.4 114.6
 145 31.8 25.4 38.0





#72
 1,2,3-Trichlorobenzene
 Concen: 1.824 ug/L
 RT: 14.328 min Scan# 4055
 Delta R.T. 0.000 min
 Lab File: VU055639.D
 Acq: 03 Oct 2023 14:30

Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.1	76.2	114.4
145	34.9	26.0	39.0

