

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU090123\
 Data File : VU055064.D
 Acq On : 02 Sep 2023 01:09
 Operator : MD/SY
 Sample : 04250-01
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Sep 02 01:48:33 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR090123WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Sat Sep 02 00:23:04 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.248	114	180971	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.415	117	178493	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.810	152	92387	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.595	65	40850	4.816	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	96.400%
7) Chloroethane-d5	1.911	69	46942	4.781	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	95.600%
11) 1,1-Dichloroethene-d2	2.563	65	24441	5.057	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	101.200%
20) 2-Butanone-d5	4.634	46	156105	63.423	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	126.840%
24) Chloroform-d	5.058	84	115772	5.144	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	102.800%
26) 1,2-Dichloroethane-d4	5.701	65	60458	5.369	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	107.400%
32) Benzene-d6	5.724	84	225652	5.122	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	102.400%
36) 1,2-Dichloropropane-d6	6.689	67	73878	5.272	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	105.400%
41) Toluene-d8	7.894	98	201509	4.965	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.200%
43) trans-1,3-Dichloroprop...	8.180	79	18922	4.903	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	98.000%
46) 2-Hexanone-d5	8.634	63	89139	56.895	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	113.780%
56) 1,1,2,2-Tetrachloroeth...	10.753	84	54228	5.502	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	110.000%
66) 1,2-Dichlorobenzene-d4	12.190	152	71528	5.304	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	106.000%
Target Compounds						
					Qvalue	
3) Chloromethane	1.515	50	5288	0.494	ug/L	98
5) Vinyl chloride	1.599	62	113021	10.007	ug/L	95
8) Chloroethane	1.930	64	1828	0.249	ug/L	86
12) 1,1-Dichloroethene	2.573	96	11009	1.316	ug/L #	1
17) Methyl tert-butyl Ether	3.361	73	8467	0.386	ug/L	98
18) trans-1,2-Dichloroethene	3.351	96	40977	4.827	ug/L	94
19) 1,1-Dichloroethane	3.865	63	9934	0.542	ug/L	99
22) cis-1,2-Dichloroethene	4.660	96	2062539	198.495	ug/L	97
33) Benzene	5.772	78	13400	0.353	ug/L	100
34) Trichloroethene	6.537	95	2556349	242.130	ug/L	97
35) Methylcyclohexane	6.689	83	17071	1.152	ug/L #	15
37) 1,2-Dichloropropane	6.689	63	7792	0.753	ug/L #	89
47) Tetrachloroethene	8.550	164	1654	0.227	ug/L	92
48) 2-Hexanone	8.685	43	20489	4.434	ug/L #	87
49) Dibromochloromethane	8.557	129	1844	0.242	ug/L #	9
51) Chlorobenzene	9.447	112	44077	1.643	ug/L	98
61) 1,2,3-Trichloropropane	11.746	75	4419	0.721	ug/L #	47
64) 1,3-Dichlorobenzene	11.746	146	11629	0.562	ug/L	98
65) 1,4-Dichlorobenzene	11.836	146	21109	1.024	ug/L	97

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Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 34 Sample Multiplier: 1

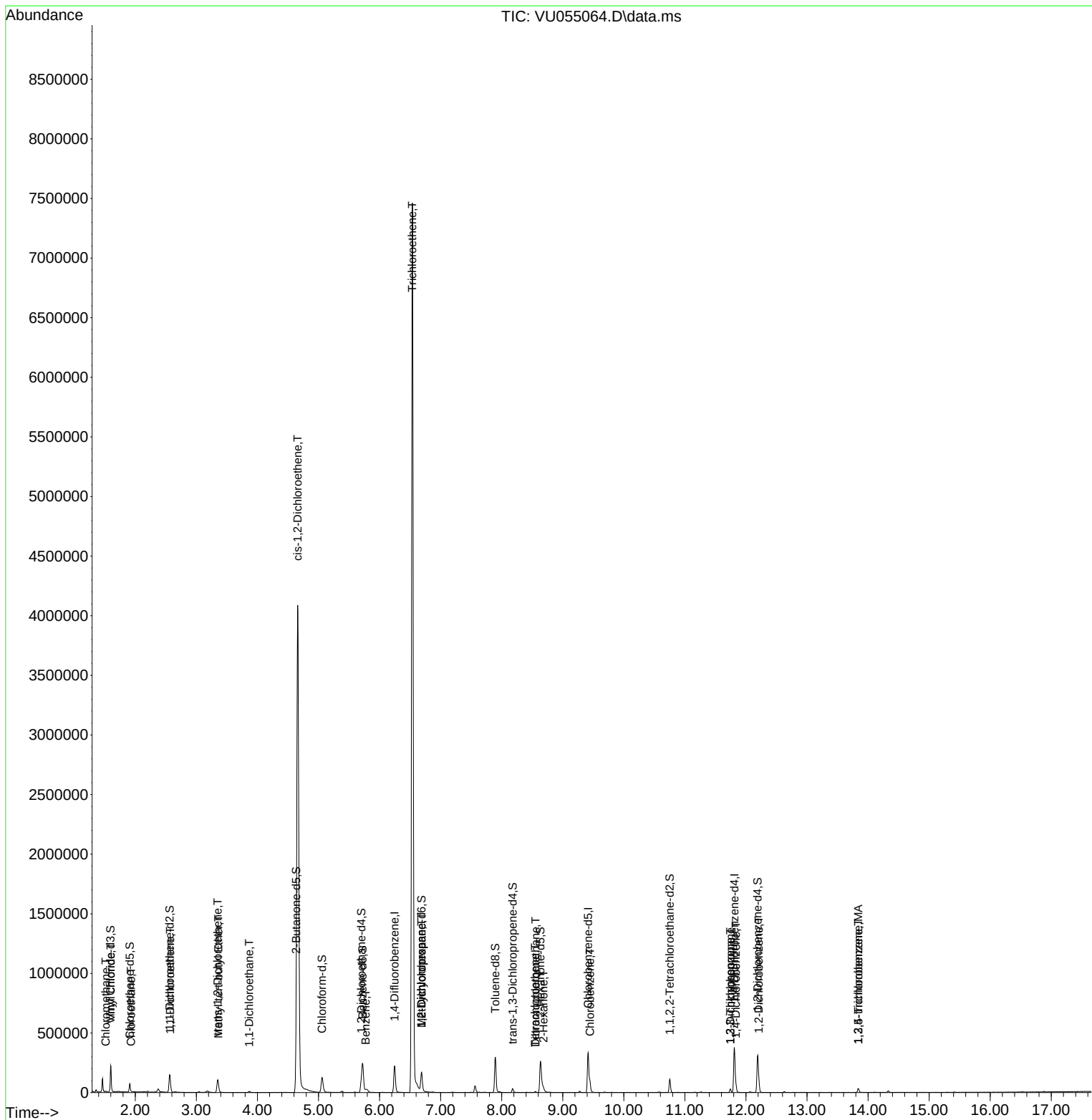
Instrument :
MSVOA_U
ClientSampleId :

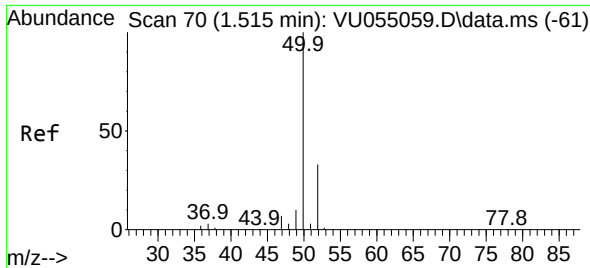
Quant Time: Sep 02 01:48:33 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR090123WMA.M
Quant Title : TRACE VOA SFAM1.0
QLast Update : Sat Sep 02 00:23:04 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) 1,2-Dichlorobenzene	12.212	146	30244	1.560	ug/L	97
69) 1,3,5-Trichlorobenzene	13.839	180	10795	0.691	ug/L	96
70) 1,2,4-trichlorobenzene	13.839	180	10795	0.737	ug/L	98

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

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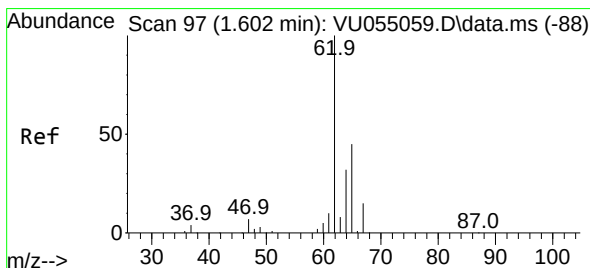
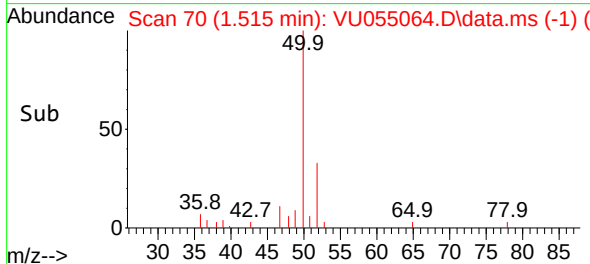
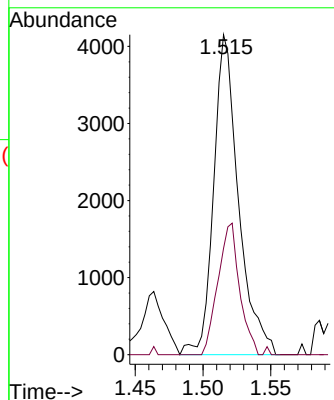
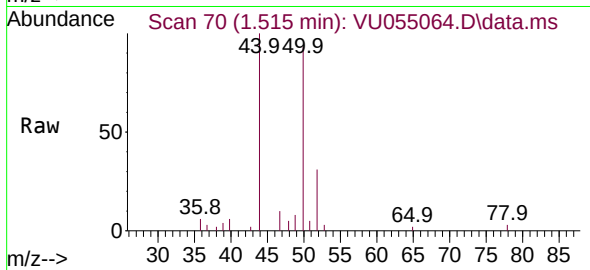




#3
Chloromethane
Concen: 0.494 ug/L
RT: 1.515 min Scan# 70
Delta R.T. -0.000 min
Lab File: VU055064.D
Acq: 02 Sep 2023 01:09

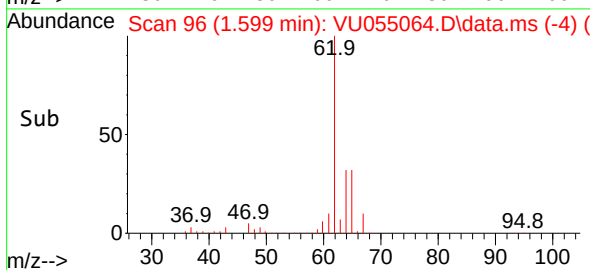
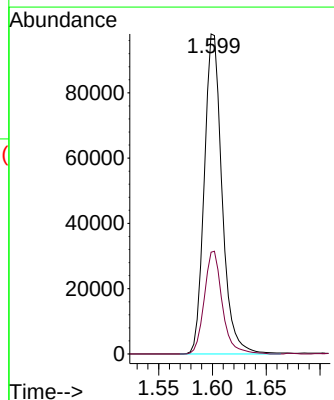
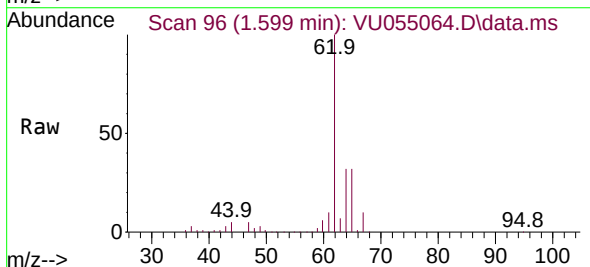
Instrument :
MSVOA_U
ClientSampleId :

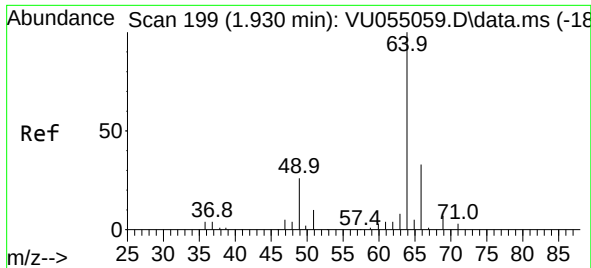
Tgt Ion: 50 Resp: 5288
Ion Ratio Lower Upper
50 100
52 33.2 22.5 41.7



#5
Vinyl chloride
Concen: 10.007 ug/L
RT: 1.599 min Scan# 96
Delta R.T. -0.003 min
Lab File: VU055064.D
Acq: 02 Sep 2023 01:09

Tgt Ion: 62 Resp: 113021
Ion Ratio Lower Upper
62 100
64 31.8 24.2 45.0

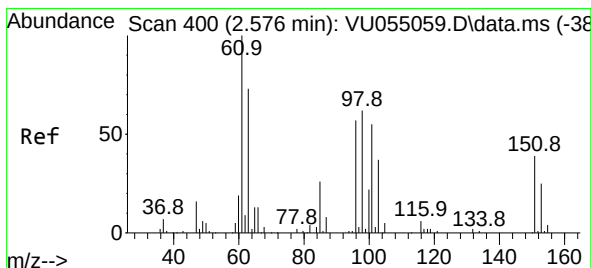
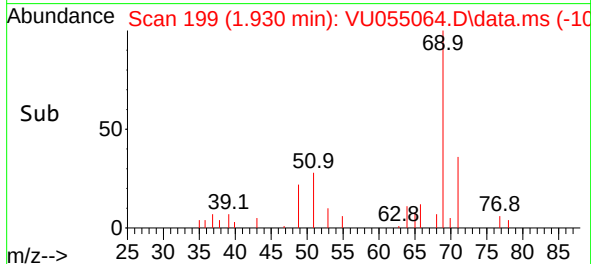
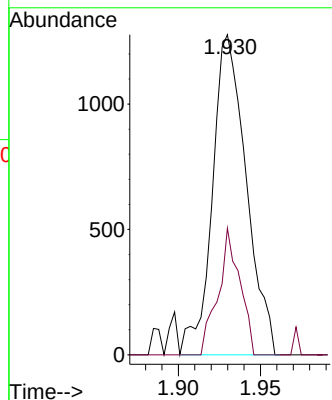
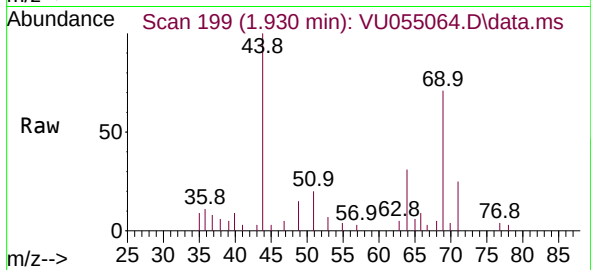




#8
Chloroethane
Concen: 0.249 ug/L
RT: 1.930 min Scan# 199
Delta R.T. -0.000 min
Lab File: VU055064.D
Acq: 02 Sep 2023 01:09

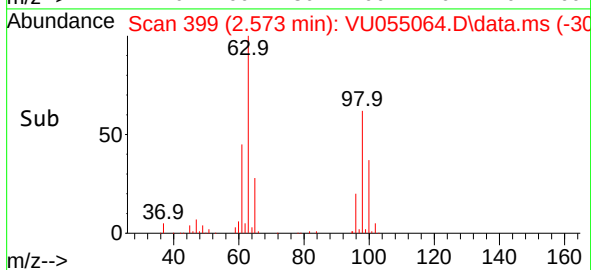
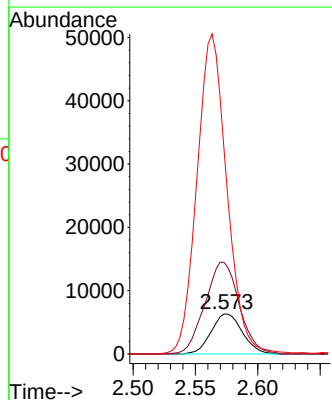
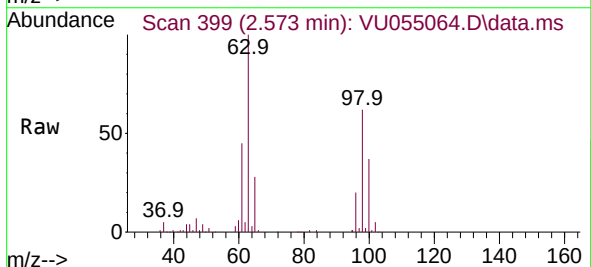
Instrument :
MSVOA_U
ClientSampleId :

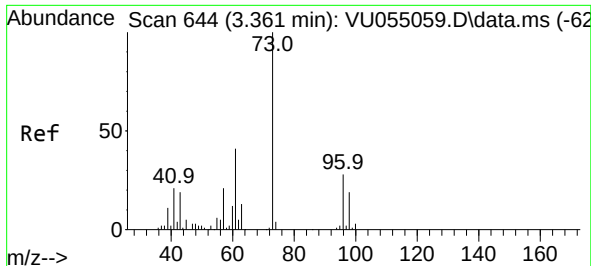
Tgt Ion: 64 Resp: 1828
Ion Ratio Lower Upper
64 100
66 39.5 22.4 41.6



#12
1,1-Dichloroethene
Concen: 1.316 ug/L
RT: 2.573 min Scan# 399
Delta R.T. -0.003 min
Lab File: VU055064.D
Acq: 02 Sep 2023 01:09

Tgt Ion: 96 Resp: 11009
Ion Ratio Lower Upper
96 100
61 228.6 120.8 224.4#
63 509.8 94.5 175.5#





#17

Methyl tert-butyl Ether

Concen: 0.386 ug/L

RT: 3.361 min Scan# 644

Delta R.T. -0.000 min

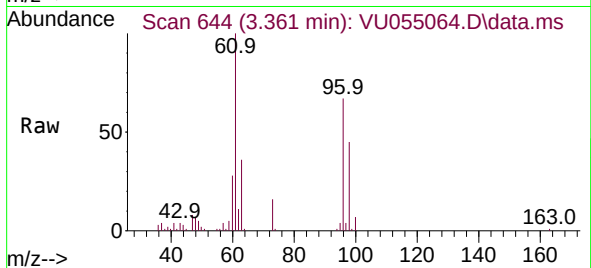
Lab File: VU055064.D

Acq: 02 Sep 2023 01:09

Instrument :

MSVOA_U

ClientSampleId :



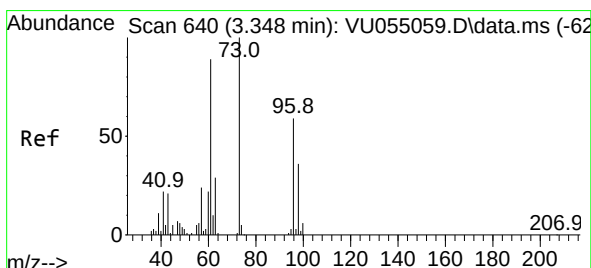
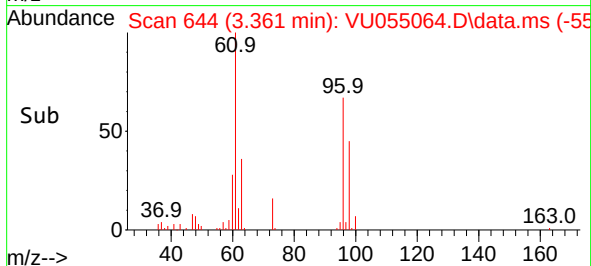
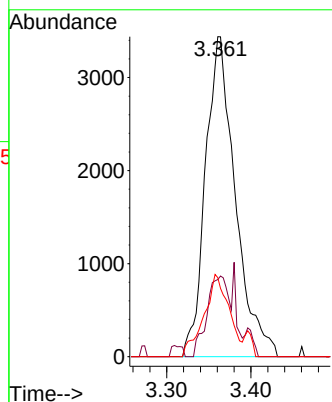
Tgt Ion: 73 Resp: 8467

Ion Ratio Lower Upper

73 100

43 18.5 16.2 24.2

57 21.6 17.4 26.2



#18

trans-1,2-Dichloroethene

Concen: 4.827 ug/L

RT: 3.351 min Scan# 641

Delta R.T. 0.003 min

Lab File: VU055064.D

Acq: 02 Sep 2023 01:09

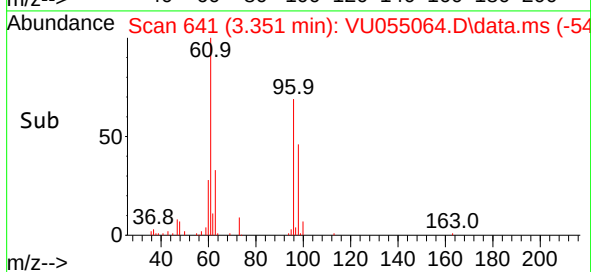
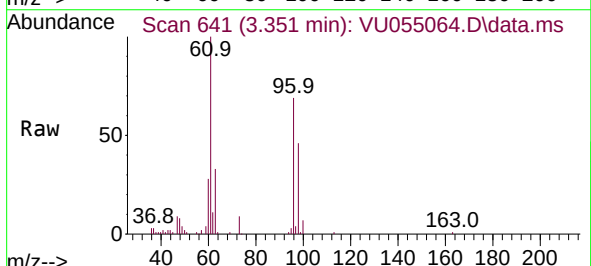
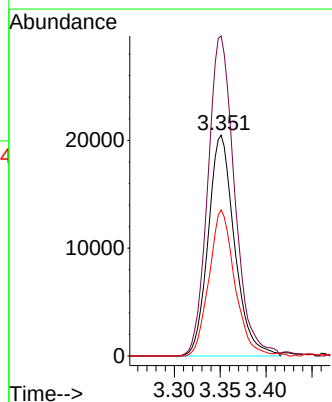
Tgt Ion: 96 Resp: 40977

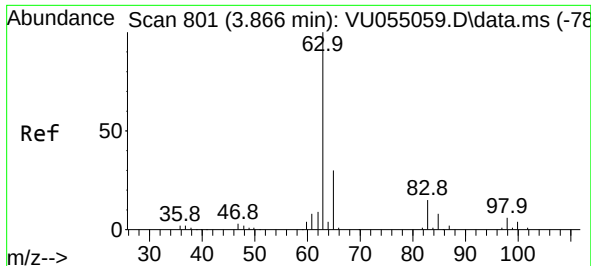
Ion Ratio Lower Upper

96 100

61 145.0 108.1 200.9

98 66.2 45.4 84.4





#19

1,1-Dichloroethane

Concen: 0.542 ug/L

RT: 3.865 min Scan# 801

Delta R.T. -0.000 min

Lab File: VU055064.D

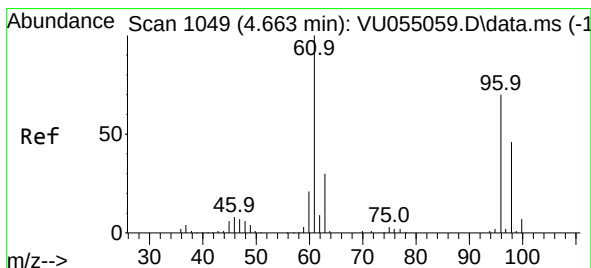
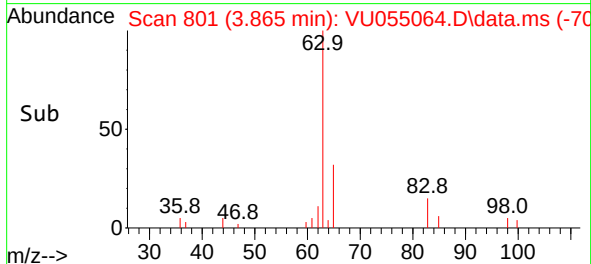
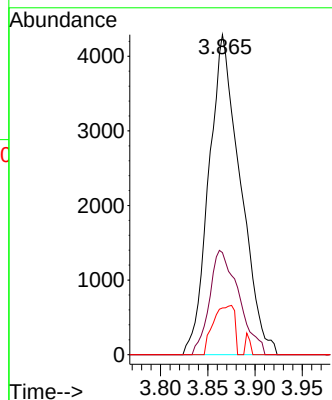
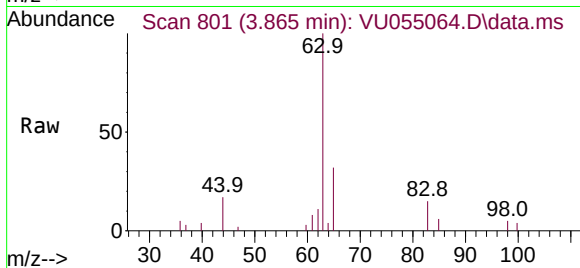
Acq: 02 Sep 2023 01:09

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion:	63	Resp:	9934
Ion	Ratio	Lower	Upper
63	100		
65	31.9	22.2	41.2
83	14.6	10.6	19.8



#22

cis-1,2-Dichloroethene

Concen: 198.495 ug/L

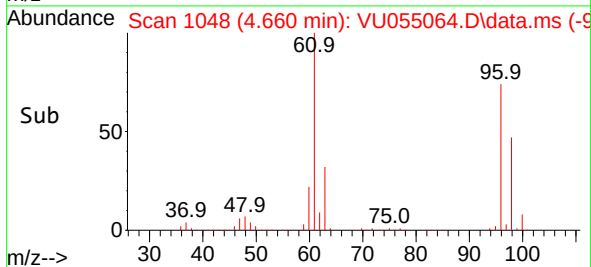
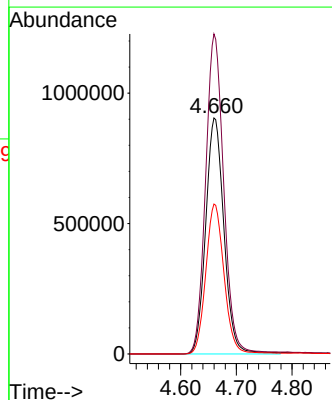
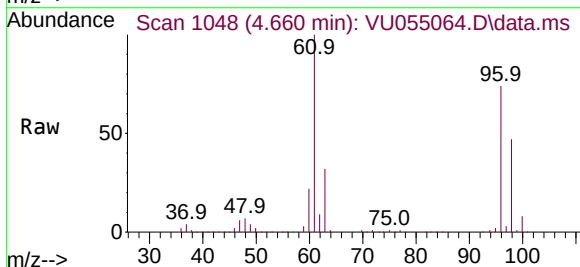
RT: 4.660 min Scan# 1048

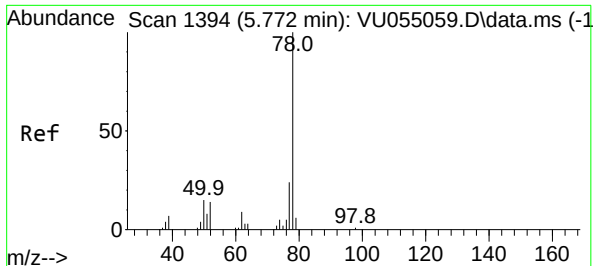
Delta R.T. -0.003 min

Lab File: VU055064.D

Acq: 02 Sep 2023 01:09

Tgt Ion:	96	Resp:	2062539
Ion	Ratio	Lower	Upper
96	100		
61	135.6	97.2	180.4
98	63.5	46.1	85.7

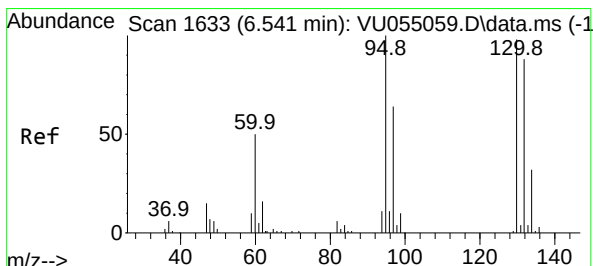
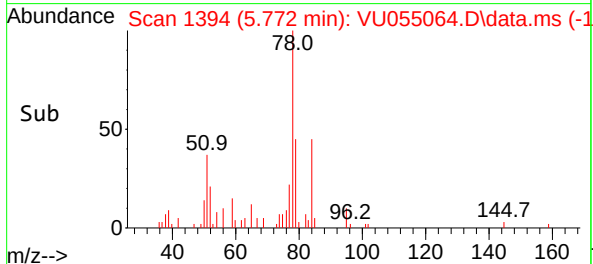
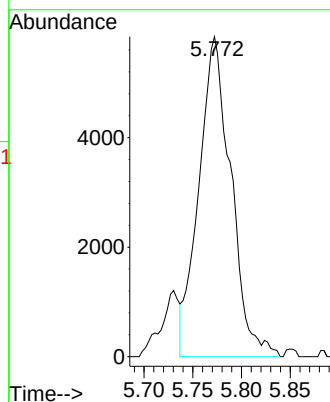
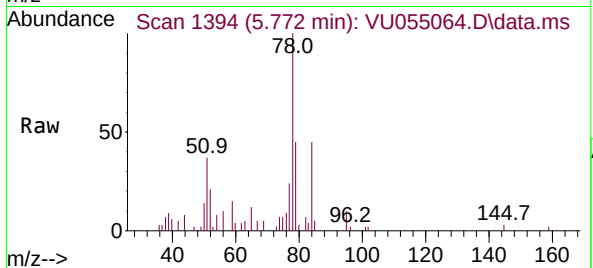




#33
Benzene
Concen: 0.353 ug/L
RT: 5.772 min Scan# 1394
Delta R.T. -0.000 min
Lab File: VU055064.D
Acq: 02 Sep 2023 01:09

Instrument :
MSVOA_U
ClientSampleId :

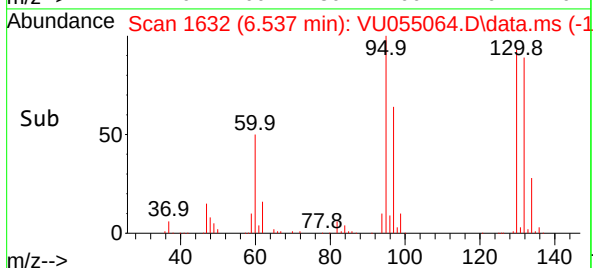
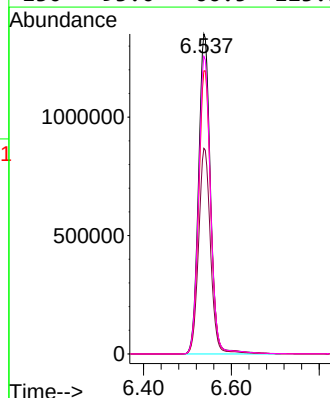
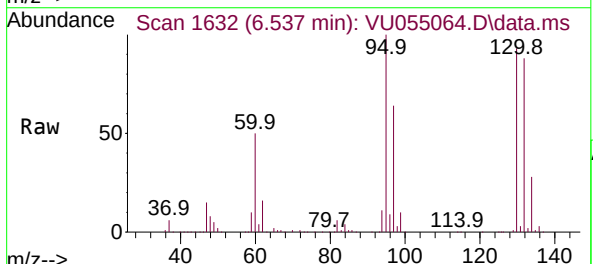
Tgt Ion: 78 Resp: 13400

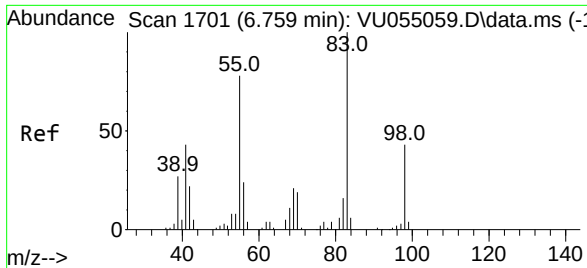


#34
Trichloroethene
Concen: 242.130 ug/L
RT: 6.537 min Scan# 1632
Delta R.T. -0.003 min
Lab File: VU055064.D
Acq: 02 Sep 2023 01:09

Tgt Ion: 95 Resp: 2556349

Ion	Ratio	Lower	Upper
95	100		
97	64.2	44.7	83.1
132	88.4	66.6	123.6
130	93.0	66.5	123.5

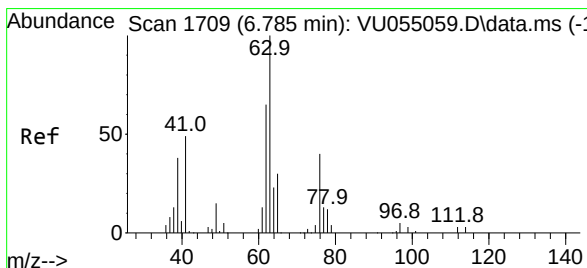
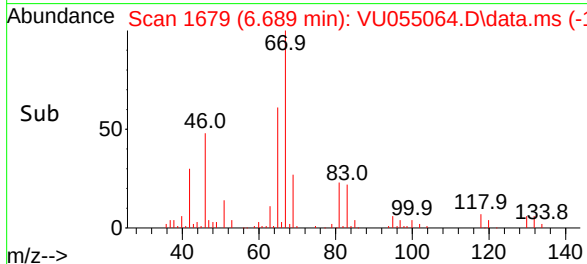
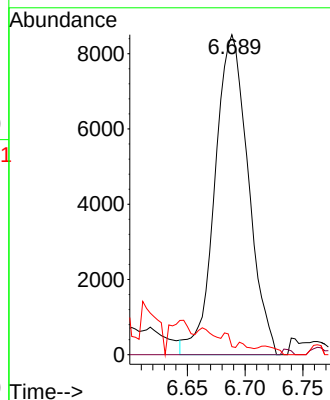
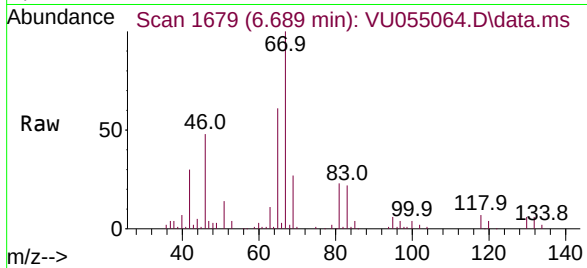




#35
Methylcyclohexane
Concen: 1.152 ug/L
RT: 6.689 min Scan# 1701
Delta R.T. -0.071 min
Lab File: VU055064.D
Acq: 02 Sep 2023 01:09

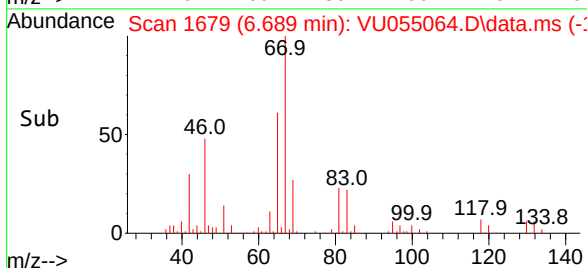
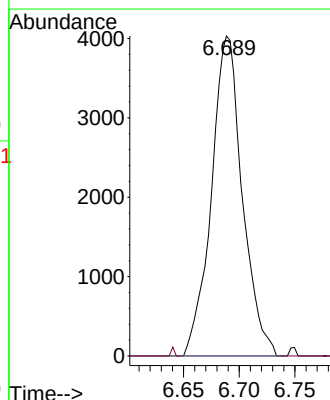
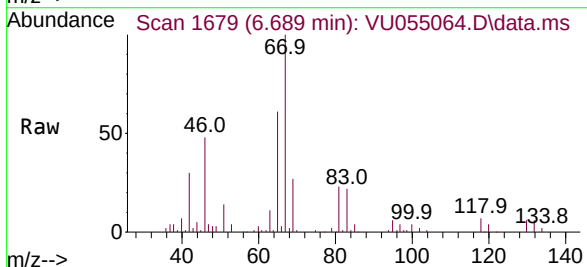
Instrument :
MSVOA_U
ClientSampleId :

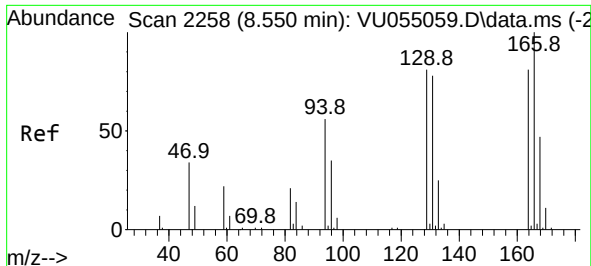
Tgt Ion: 83 Resp: 17071
Ion Ratio Lower Upper
83 100
55 0.4 60.4 90.6#
98 96.6 35.3 52.9#



#37
1,2-Dichloropropane
Concen: 0.753 ug/L
RT: 6.689 min Scan# 1679
Delta R.T. -0.097 min
Lab File: VU055064.D
Acq: 02 Sep 2023 01:09

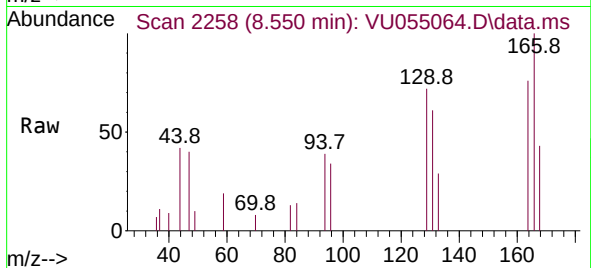
Tgt Ion: 63 Resp: 7792
Ion Ratio Lower Upper
63 100
112 0.3 3.2 4.8#



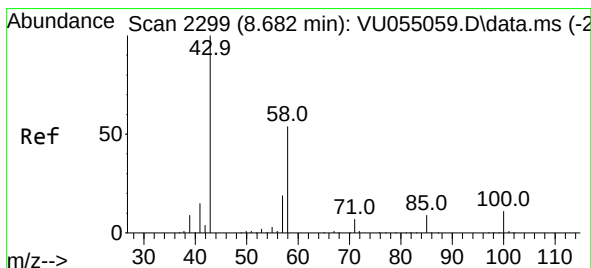
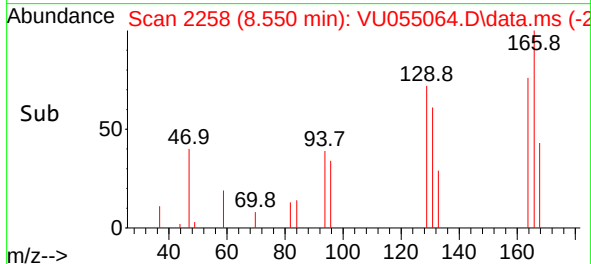
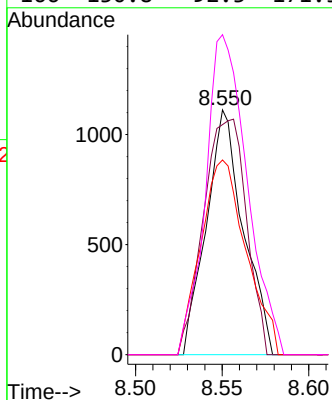


#47
Tetrachloroethene
Concen: 0.227 ug/L
RT: 8.550 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU055064.D
Acq: 02 Sep 2023 01:09

Instrument :
MSVOA_U
ClientSampleId :

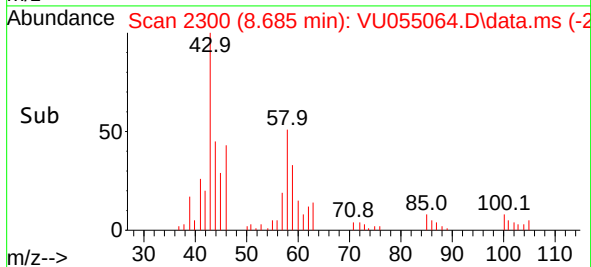
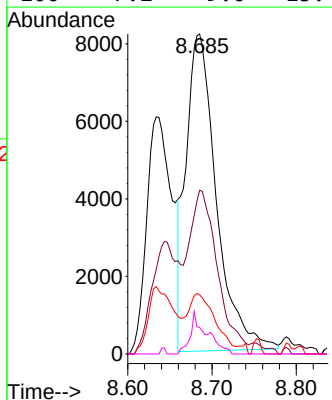
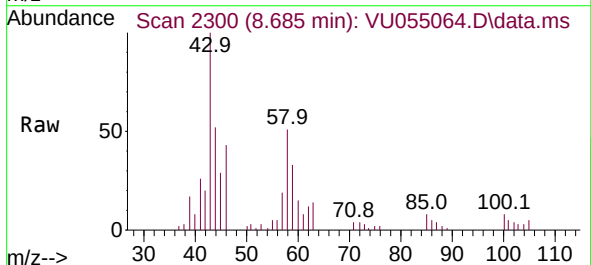


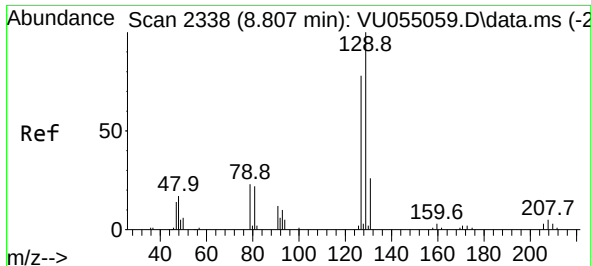
Tgt Ion:164 Resp: 1654
Ion Ratio Lower Upper
164 100
129 94.0 69.2 128.6
131 79.6 68.8 127.8
166 130.8 92.3 171.5



#48
2-Hexanone
Concen: 4.434 ug/L
RT: 8.685 min Scan# 2300
Delta R.T. 0.003 min
Lab File: VU055064.D
Acq: 02 Sep 2023 01:09

Tgt Ion: 43 Resp: 20489
Ion Ratio Lower Upper
43 100
58 43.9 44.0 66.0#
57 17.1 16.2 24.2
100 7.2 9.0 13.4#





#49

Dibromochloromethane

Concen: 0.242 ug/L

RT: 8.557 min Scan# 21

Delta R.T. -0.251 min

Lab File: VU055064.D

Acq: 02 Sep 2023 01:09

Instrument :

MSVOA_U

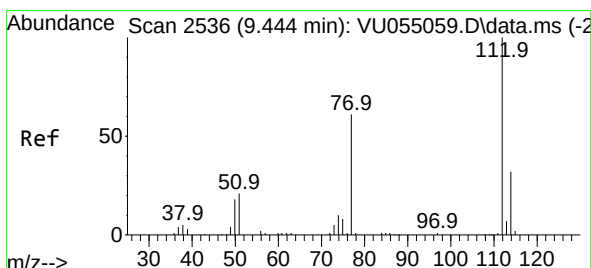
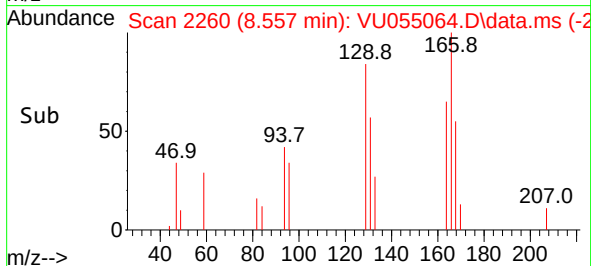
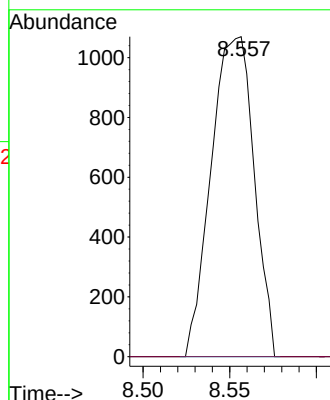
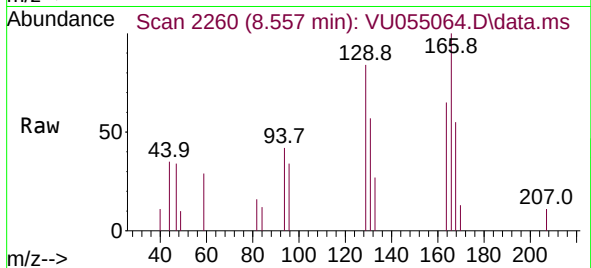
ClientSampleId :

Tgt Ion:129 Resp: 1844

Ion Ratio Lower Upper

129 100

127 0.0 55.9 103.7#



#51

Chlorobenzene

Concen: 1.643 ug/L

RT: 9.447 min Scan# 2537

Delta R.T. 0.003 min

Lab File: VU055064.D

Acq: 02 Sep 2023 01:09

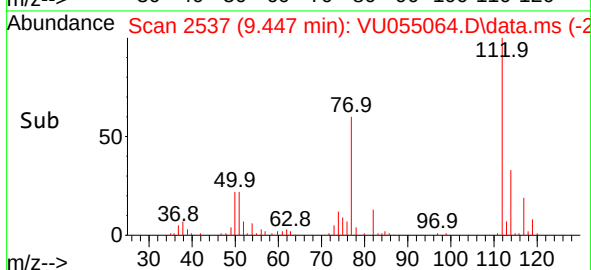
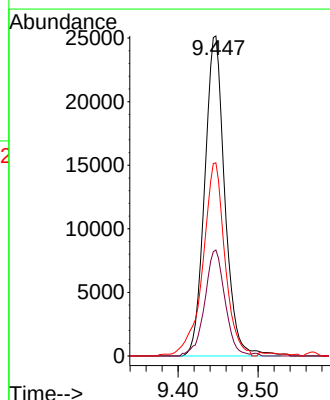
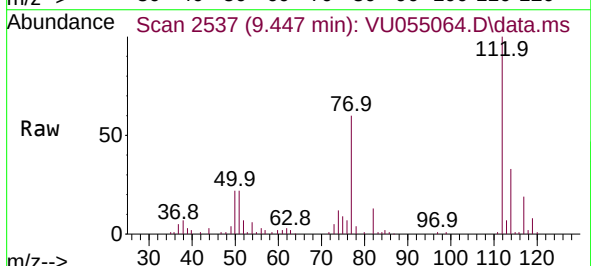
Tgt Ion:112 Resp: 44077

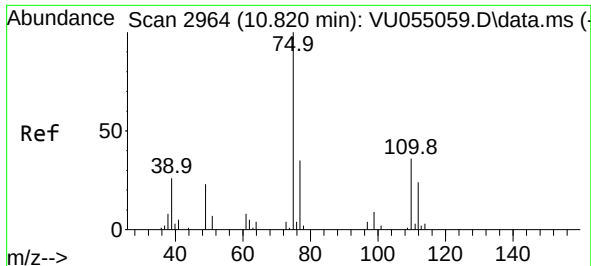
Ion Ratio Lower Upper

112 100

114 33.1 21.7 40.3

77 60.4 48.6 72.8

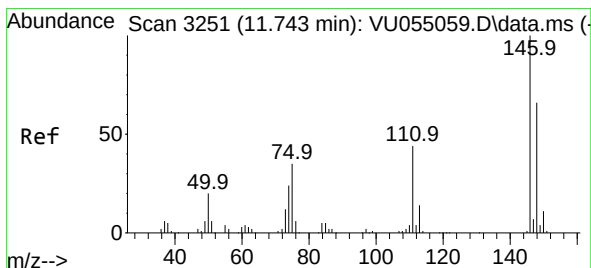
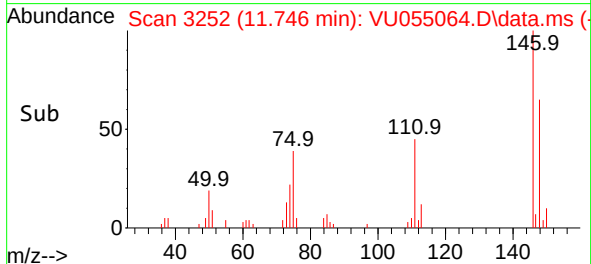
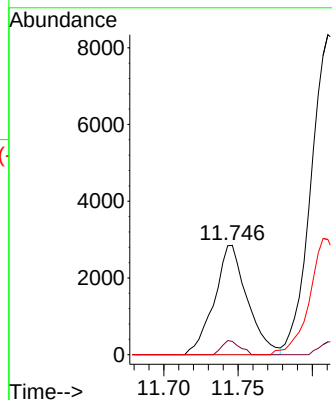
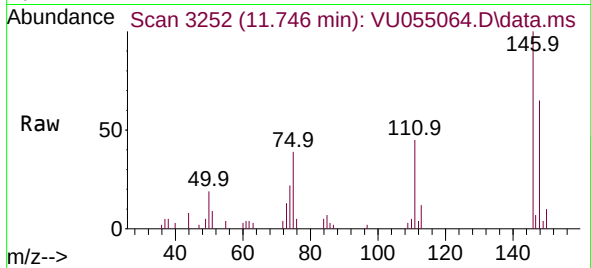




#61
1,2,3-Trichloropropane
Concen: 0.721 ug/L
RT: 11.746 min Scan# 31
Delta R.T. 0.926 min
Lab File: VU055064.D
Acq: 02 Sep 2023 01:09

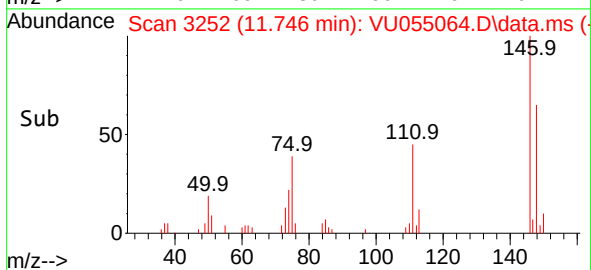
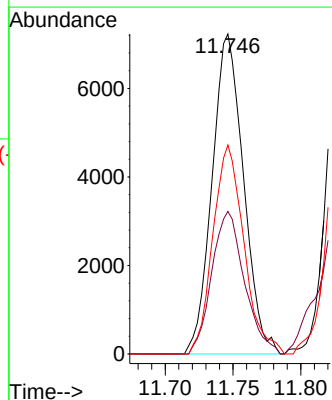
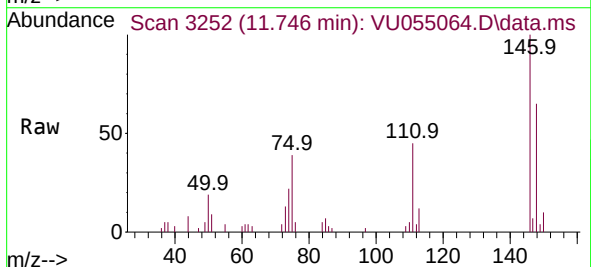
Instrument :
MSVOA_U
ClientSampleId :

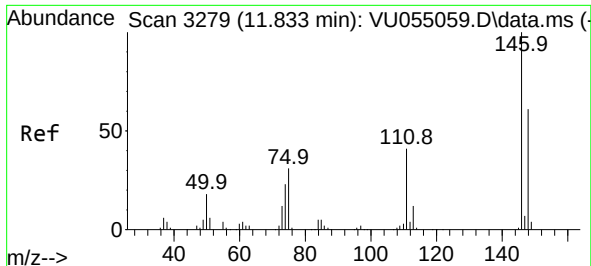
Tgt Ion: 75 Resp: 4419
Ion Ratio Lower Upper
75 100
110 6.9 28.2 42.2#
77 0.0 26.2 39.4#



#64
1,3-Dichlorobenzene
Concen: 0.562 ug/L
RT: 11.746 min Scan# 3252
Delta R.T. 0.003 min
Lab File: VU055064.D
Acq: 02 Sep 2023 01:09

Tgt Ion:146 Resp: 11629
Ion Ratio Lower Upper
146 100
111 44.6 30.0 55.6
148 65.3 45.2 84.0





#65

1,4-Dichlorobenzene

Concen: 1.024 ug/L

RT: 11.836 min Scan# 31

Delta R.T. 0.003 min

Lab File: VU055064.D

Acq: 02 Sep 2023 01:09

Instrument :

MSVOA_U

ClientSampleId :

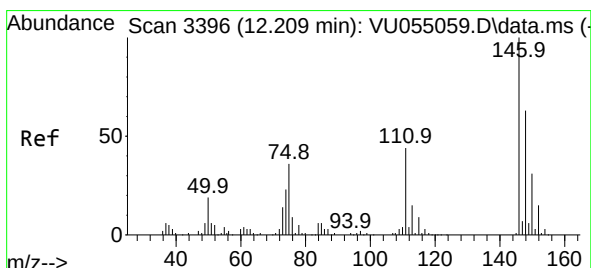
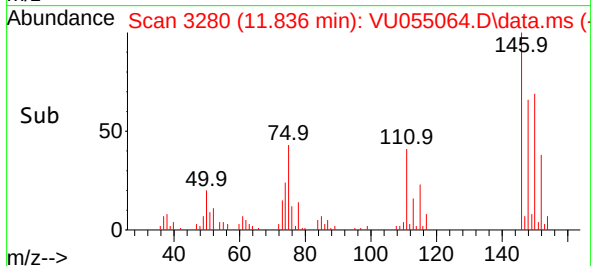
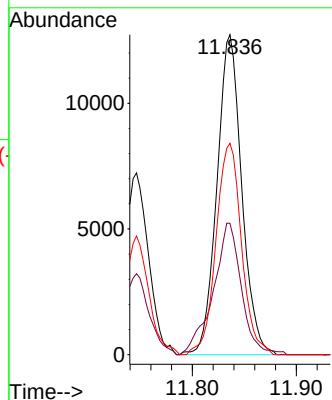
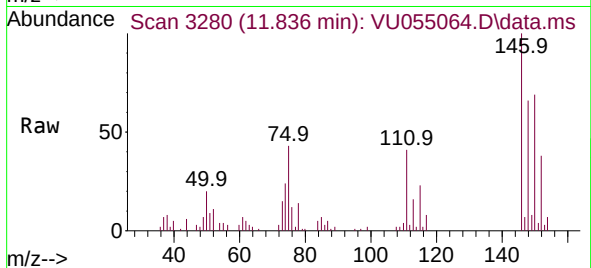
Tgt Ion:146 Resp: 21109

Ion Ratio Lower Upper

146 100

111 41.1 28.1 52.1

148 66.0 43.8 81.3



#67

1,2-Dichlorobenzene

Concen: 1.560 ug/L

RT: 12.212 min Scan# 3397

Delta R.T. 0.003 min

Lab File: VU055064.D

Acq: 02 Sep 2023 01:09

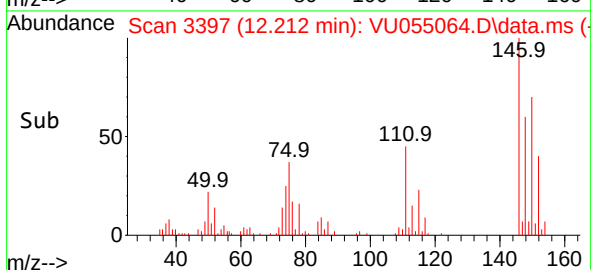
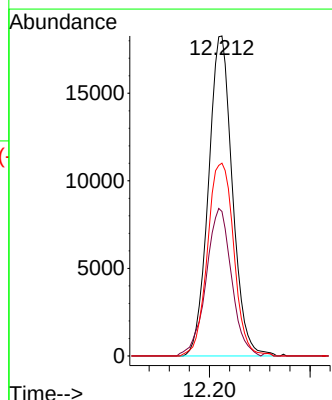
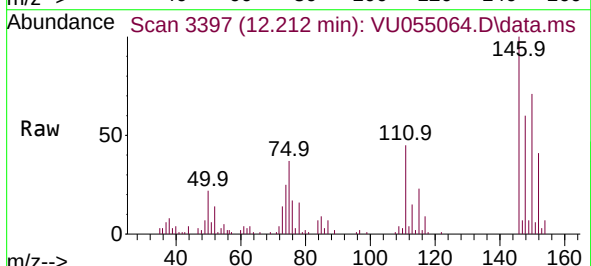
Tgt Ion:146 Resp: 30244

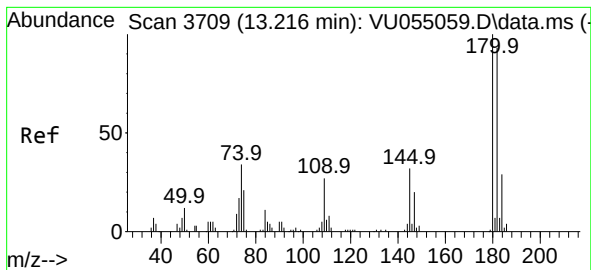
Ion Ratio Lower Upper

146 100

111 45.2 35.6 53.4

148 60.2 51.3 76.9





#69

1,3,5-Trichlorobenzene

Concen: 0.691 ug/L

RT: 13.839 min Scan# 3903

Delta R.T. 0.624 min

Lab File: VU055064.D

Acq: 02 Sep 2023 01:09

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion:180 Resp: 10795

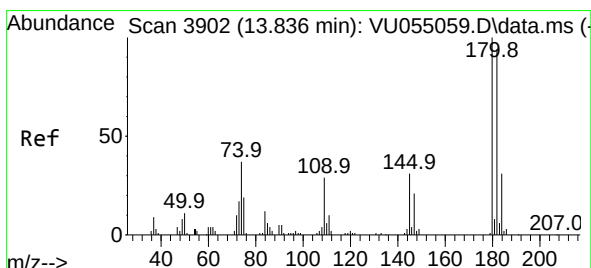
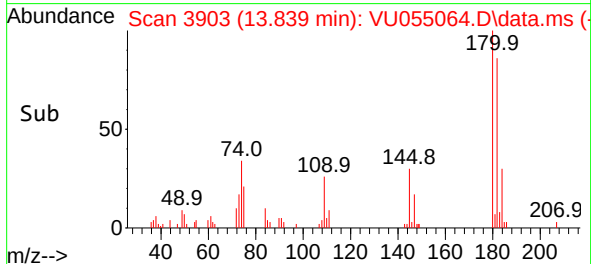
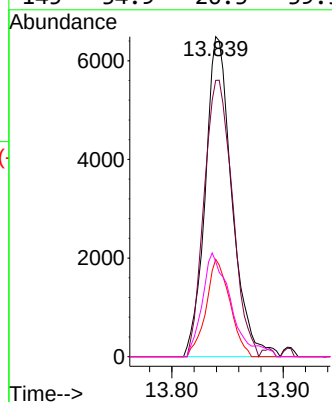
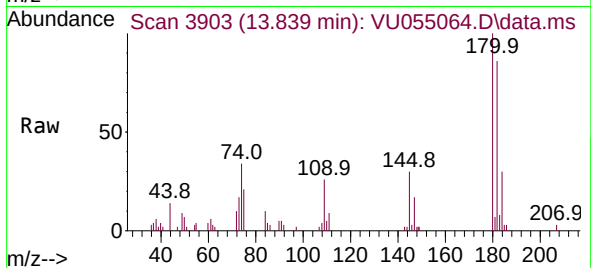
Ion Ratio Lower Upper

180 100

182 91.4 75.8 113.6

184 27.2 24.0 36.0

145 34.9 26.3 39.5



#70

1,2,4-trichlorobenzene

Concen: 0.737 ug/L

RT: 13.839 min Scan# 3903

Delta R.T. 0.003 min

Lab File: VU055064.D

Acq: 02 Sep 2023 01:09

Tgt Ion:180 Resp: 10795

Ion Ratio Lower Upper

180 100

182 91.4 73.6 110.4

145 34.9 25.8 38.8

