

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU100223\
 Data File : VU055627.D
 Acq On : 03 Oct 2023 01:01
 Operator : MD/SY
 Sample : 04679-15
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 03 06:26:04 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR091923WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Tue Oct 03 06:03:59 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.248	114	166463	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.415	117	169470	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.807	152	92841	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.599	65	60616	3.603	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	72.000%
7) Chloroethane-d5	1.914	69	60916	4.109	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	82.200%
11) 1,1-Dichloroethene-d2	2.567	65	24823	3.585	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	71.600%
20) 2-Butanone-d5	4.634	46	169007	55.615	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	111.240%
24) Chloroform-d	5.062	84	134830	4.431	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.600%
26) 1,2-Dichloroethane-d4	5.702	65	67930	4.641	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.800%
32) Benzene-d6	5.724	84	256844	4.333	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	86.600%
36) 1,2-Dichloropropane-d6	6.685	67	83064	4.690	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	93.800%
41) Toluene-d8	7.898	98	206942	3.830	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	76.600%
43) trans-1,3-Dichloroprop...	8.181	79	26911	4.330	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	86.600%
46) 2-Hexanone-d5	8.631	63	92813	49.094	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	98.180%
56) 1,1,2,2-Tetrachloroeth...	10.753	84	65686	4.949	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	99.000%
66) 1,2-Dichlorobenzene-d4	12.190	152	82306	4.392	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	87.800%
Target Compounds						
					Qvalue	
3) Chloromethane	1.515	50	2536	0.178	ug/L	88
5) Vinyl chloride	1.602	62	167765	10.907	ug/L	100
8) Chloroethane	1.933	64	2488	0.248	ug/L	86
12) 1,1-Dichloroethene	2.583	96	20452	1.757	ug/L #	71
17) Methyl tert-butyl Ether	3.364	73	36836	1.459	ug/L	95
18) trans-1,2-Dichloroethene	3.351	96	106883	9.111	ug/L	97
19) 1,1-Dichloroethane	3.866	63	677641	31.236	ug/L	98
22) cis-1,2-Dichloroethene	4.663	96	2526196	185.741	ug/L	98
27) 1,2-Dichloroethane	5.792	62	157838	11.204	ug/L	98
33) Benzene	5.772	78	193428	3.966	ug/L	100
34) Trichloroethene	6.541	95	11297	0.819	ug/L	94
37) 1,2-Dichloropropane	6.689	63	9311	0.730	ug/L #	90
39) cis-1,3-Dichloropropene	7.570	75	2324	0.136	ug/L #	80
42) Toluene	7.968	91	9372	0.180	ug/L	95
48) 2-Hexanone	8.682	43	16756	3.736	ug/L #	74
51) Chlorobenzene	9.444	112	276144	8.287	ug/L	98
61) 1,2,3-Trichloropropane	11.743	75	73972	10.207	ug/L #	48
64) 1,3-Dichlorobenzene	11.743	146	226511	8.842	ug/L	98
65) 1,4-Dichlorobenzene	11.833	146	1512373	59.068	ug/L	99

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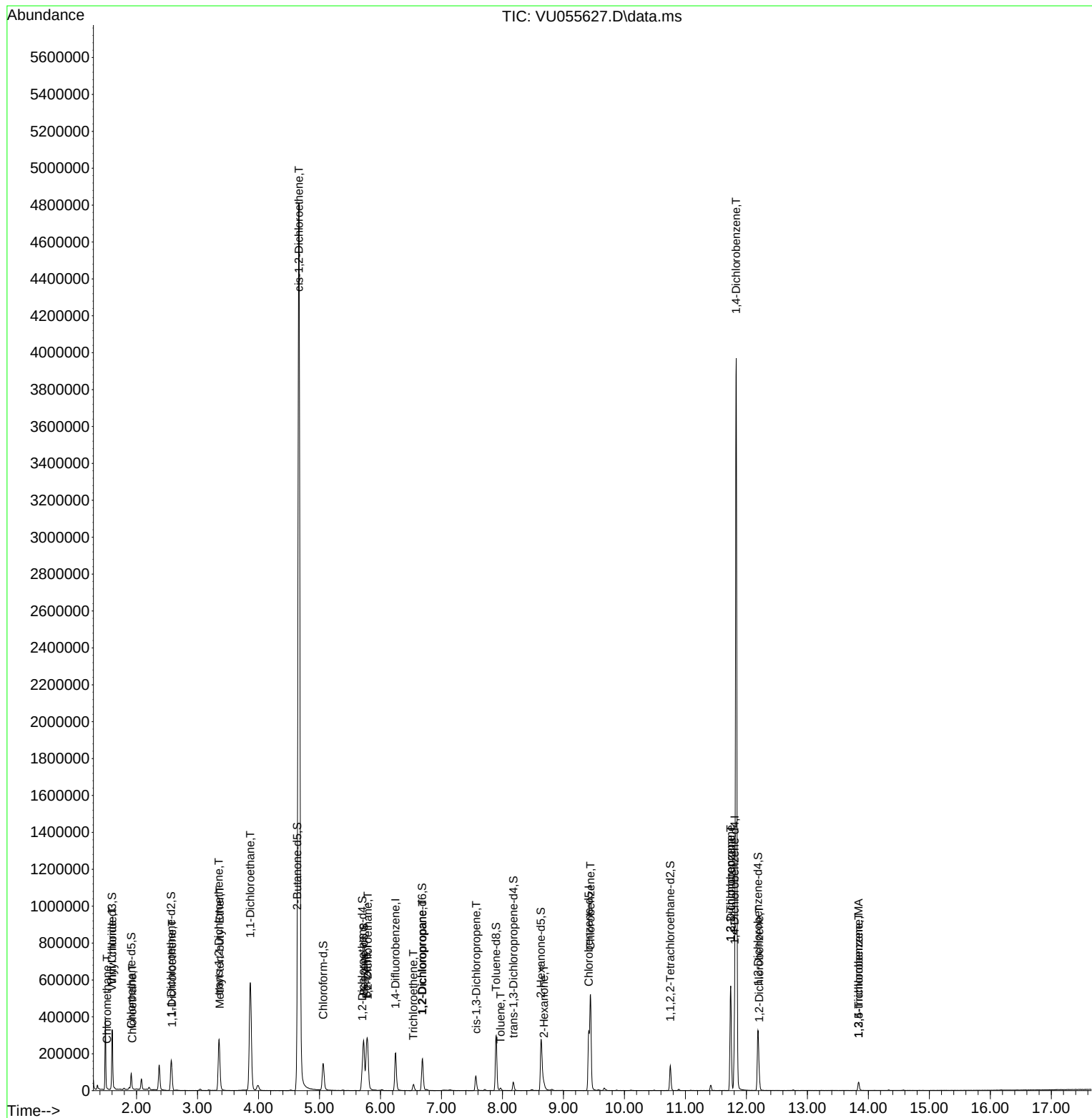
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) 1,2-Dichlorobenzene	12.209	146	22723	0.967	ug/L	98
69) 1,3,5-Trichlorobenzene	13.843	180	14570	0.826	ug/L	98
70) 1,2,4-trichlorobenzene	13.843	180	14570	1.083	ug/L	97

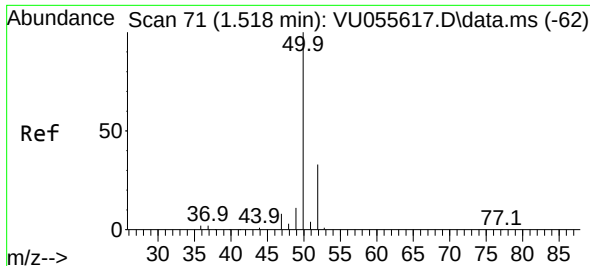
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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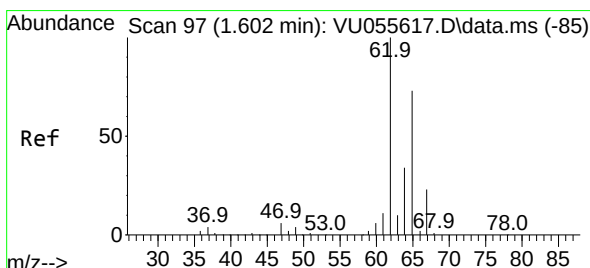
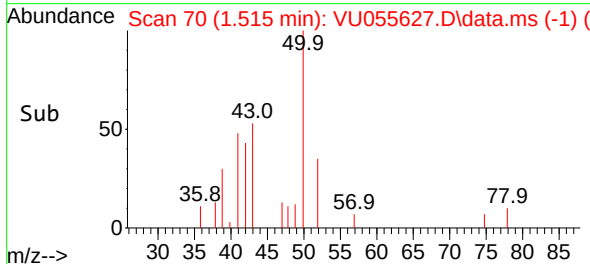
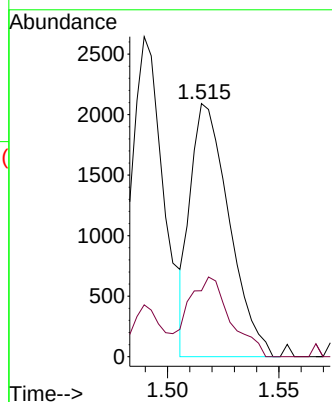
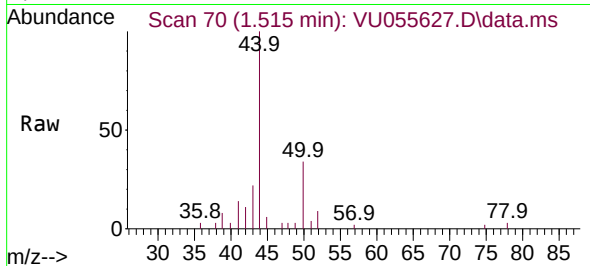




#3
Chloromethane
Concen: 0.178 ug/L
RT: 1.515 min Scan# 70
Delta R.T. -0.003 min
Lab File: VU055627.D
Acq: 03 Oct 2023 01:01

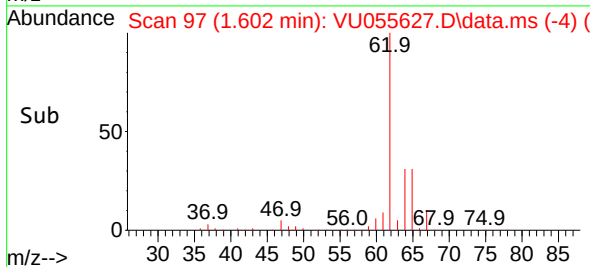
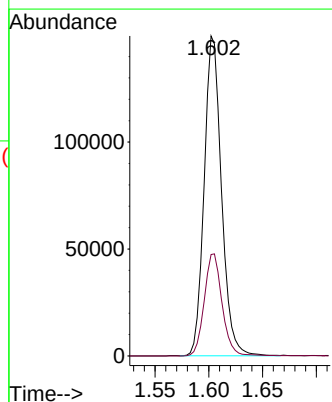
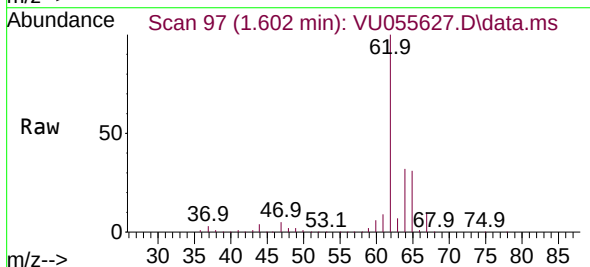
Instrument :
MSVOA_U
ClientSampleId :

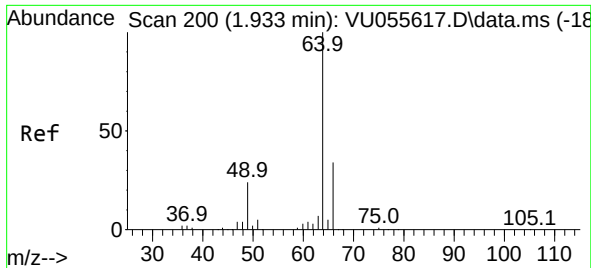
Tgt Ion: 50 Resp: 2536
Ion Ratio Lower Upper
50 100
52 26.1 22.9 42.5



#5
Vinyl chloride
Concen: 10.907 ug/L
RT: 1.602 min Scan# 97
Delta R.T. 0.000 min
Lab File: VU055627.D
Acq: 03 Oct 2023 01:01

Tgt Ion: 62 Resp: 167765
Ion Ratio Lower Upper
62 100
64 31.7 22.3 41.5

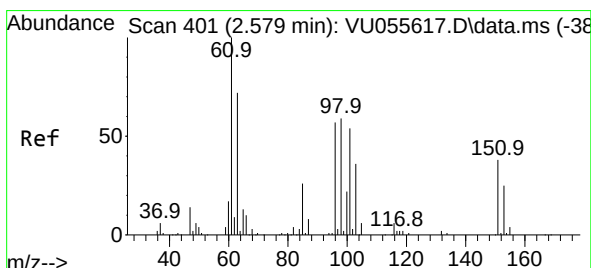
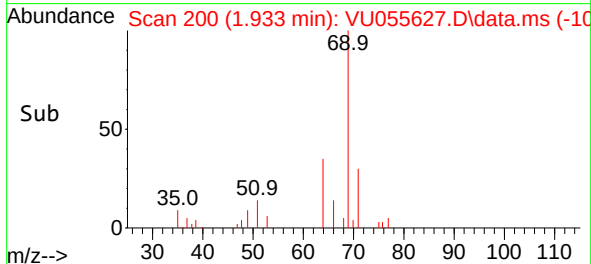
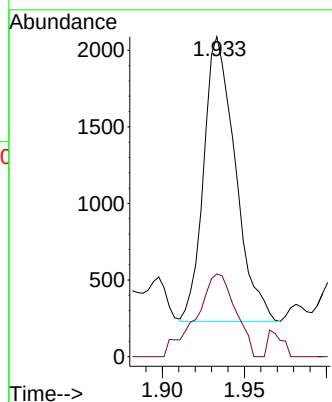
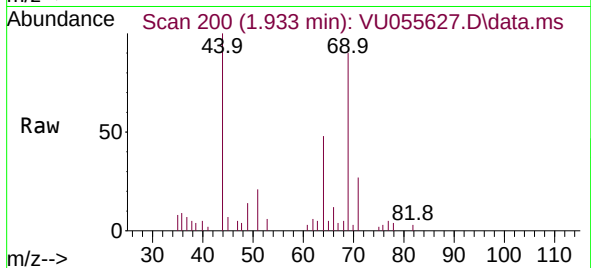




#8
Chloroethane
Concen: 0.248 ug/L
RT: 1.933 min Scan# 200
Delta R.T. 0.000 min
Lab File: VU055627.D
Acq: 03 Oct 2023 01:01

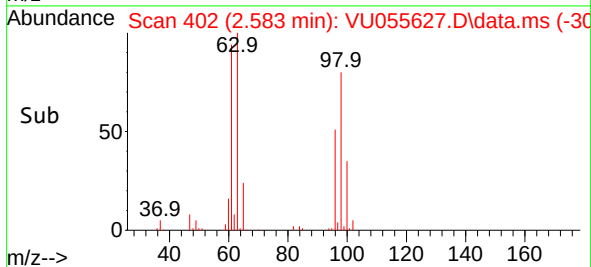
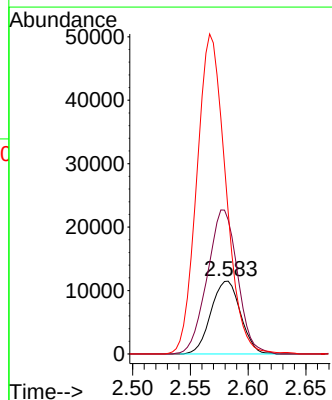
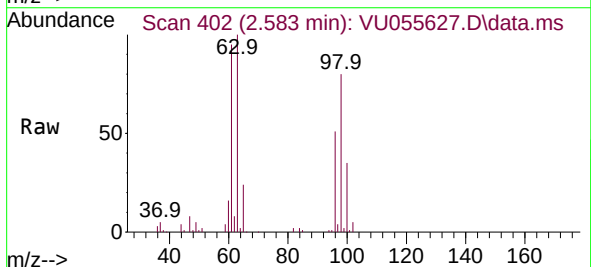
Instrument :
MSVOA_U
ClientSampleId :

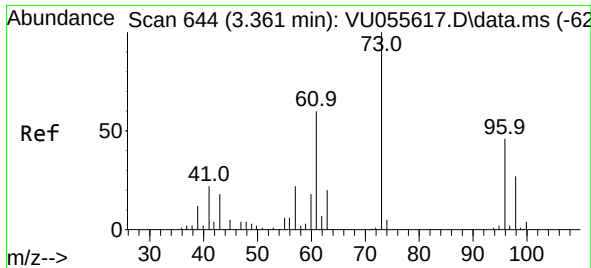
Tgt Ion: 64 Resp: 2488
Ion Ratio Lower Upper
64 100
66 25.8 23.7 44.1



#12
1,1-Dichloroethene
Concen: 1.757 ug/L
RT: 2.583 min Scan# 402
Delta R.T. 0.003 min
Lab File: VU055627.D
Acq: 03 Oct 2023 01:01

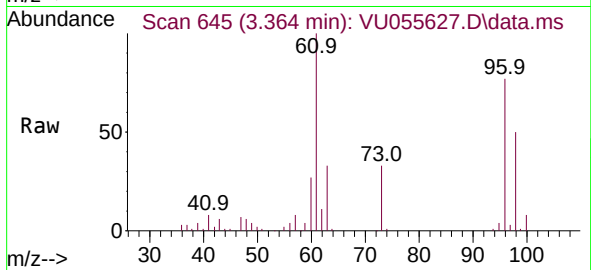
Tgt Ion: 96 Resp: 20452
Ion Ratio Lower Upper
96 100
61 184.3 114.5 212.7
63 194.9 98.3 182.5#



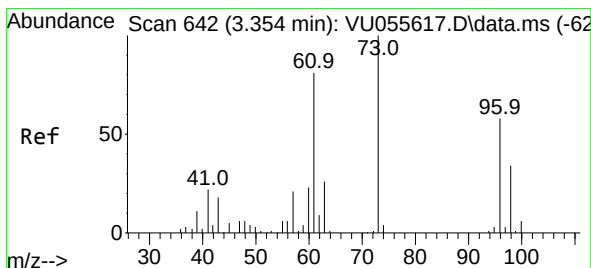
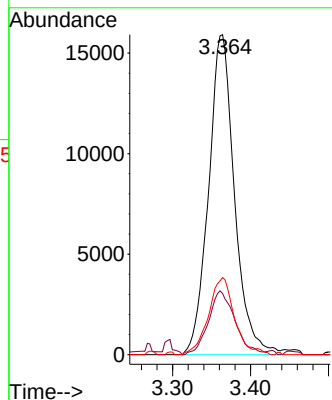
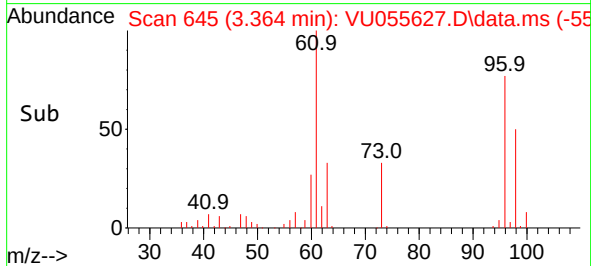


#17
Methyl tert-butyl Ether
Concen: 1.459 ug/L
RT: 3.364 min Scan# 644
Delta R.T. 0.003 min
Lab File: VU055627.D
Acq: 03 Oct 2023 01:01

Instrument :
MSVOA_U
ClientSampleId :

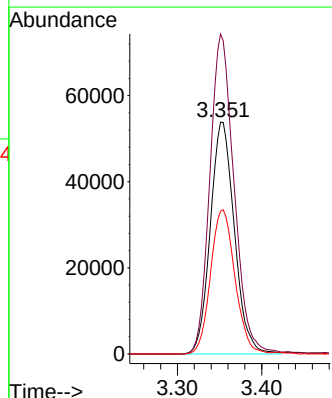
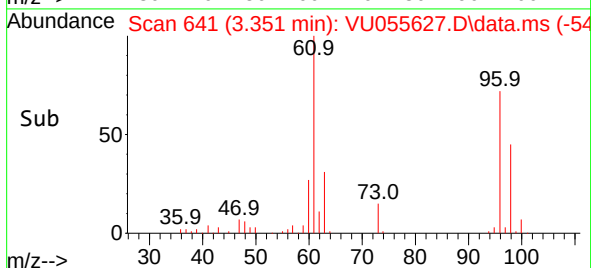
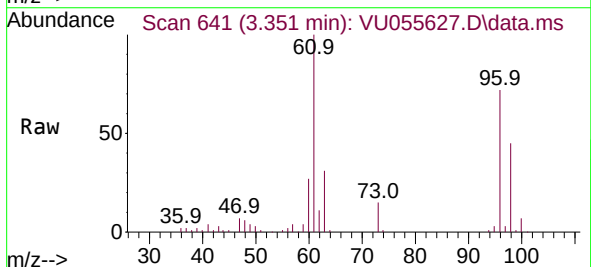


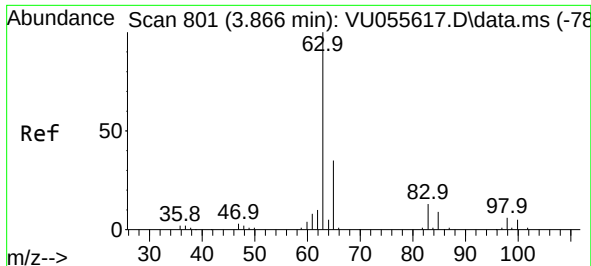
Tgt Ion: 73 Resp: 36836
Ion Ratio Lower Upper
73 100
43 20.4 14.9 22.3
57 24.1 17.3 25.9



#18
trans-1,2-Dichloroethene
Concen: 9.111 ug/L
RT: 3.351 min Scan# 641
Delta R.T. -0.003 min
Lab File: VU055627.D
Acq: 03 Oct 2023 01:01

Tgt Ion: 96 Resp: 106883
Ion Ratio Lower Upper
96 100
61 138.0 94.6 175.6
98 61.7 45.7 84.9





#19

1,1-Dichloroethane

Concen: 31.236 ug/L

RT: 3.866 min Scan# 801

Delta R.T. 0.000 min

Lab File: VU055627.D

Acq: 03 Oct 2023 01:01

Instrument :

MSVOA_U

ClientSampleId :

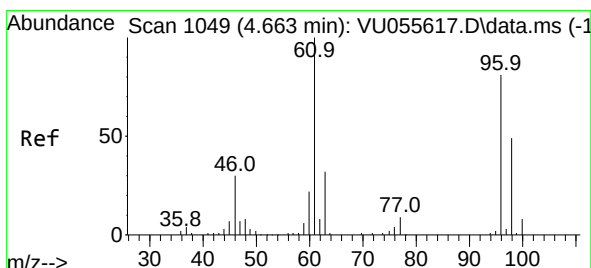
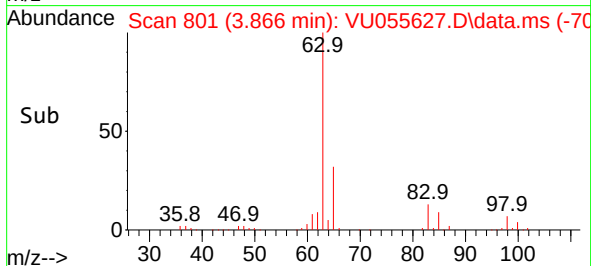
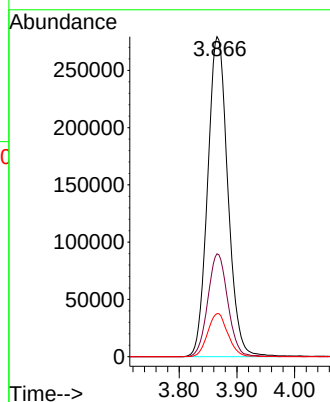
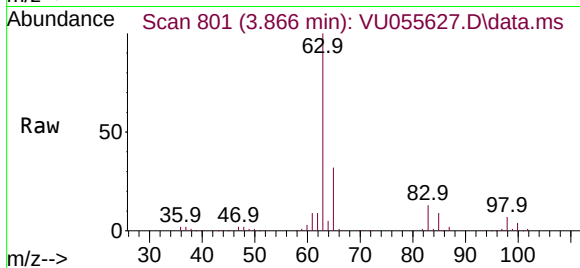
Tgt Ion: 63 Resp: 677641

Ion Ratio Lower Upper

63 100

65 32.1 22.0 41.0

83 13.5 10.1 18.9



#22

cis-1,2-Dichloroethene

Concen: 185.741 ug/L

RT: 4.663 min Scan# 1049

Delta R.T. 0.000 min

Lab File: VU055627.D

Acq: 03 Oct 2023 01:01

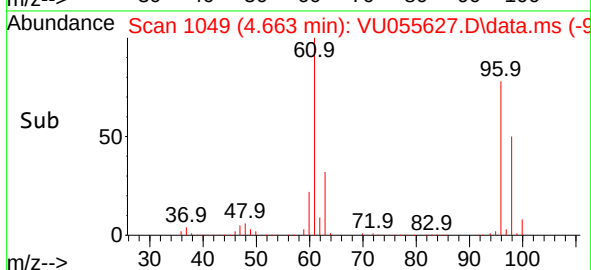
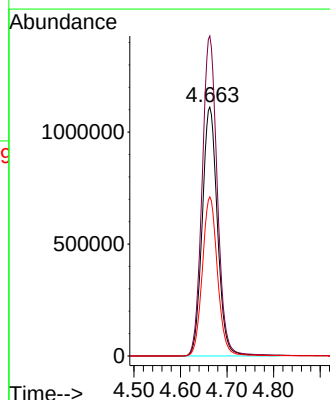
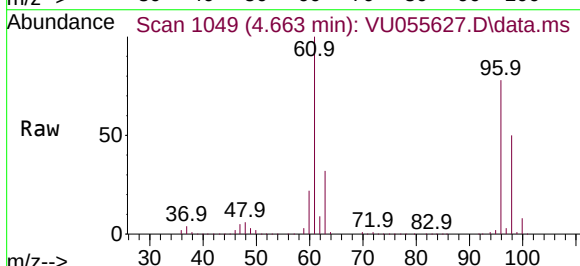
Tgt Ion: 96 Resp: 2526196

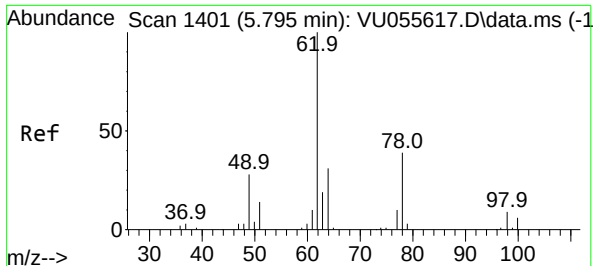
Ion Ratio Lower Upper

96 100

61 128.6 87.8 163.2

98 63.9 44.4 82.4

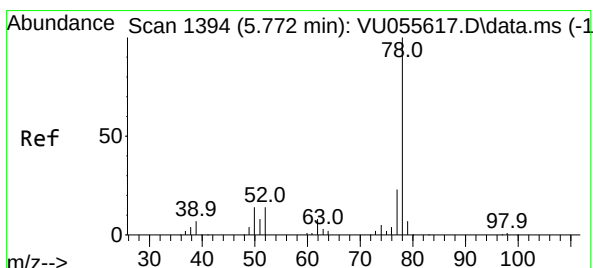
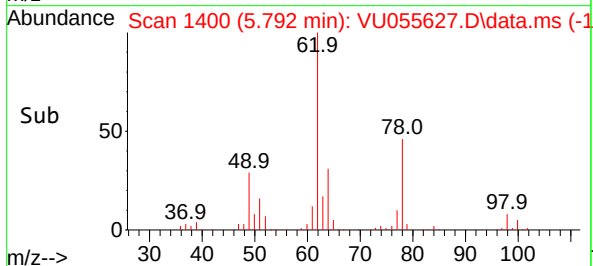
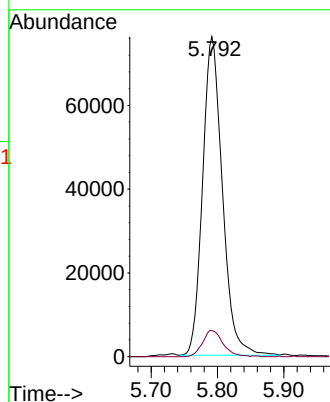
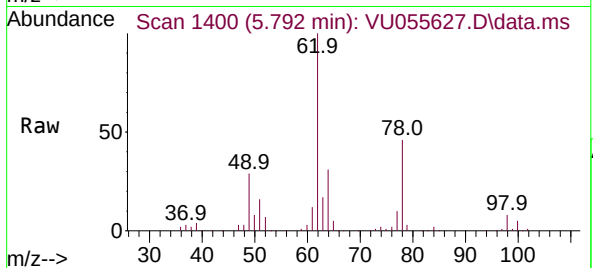




#27
1,2-Dichloroethane
Concen: 11.204 ug/L
RT: 5.792 min Scan# 1401
Delta R.T. -0.003 min
Lab File: VU055627.D
Acq: 03 Oct 2023 01:01

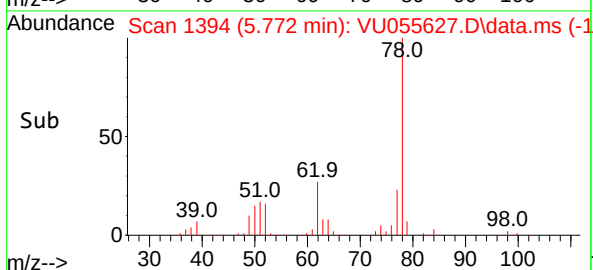
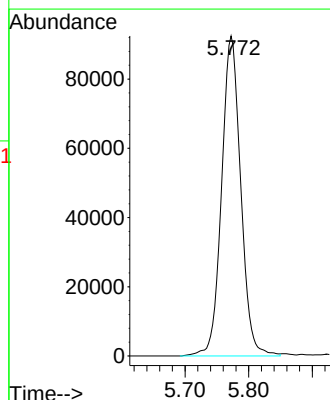
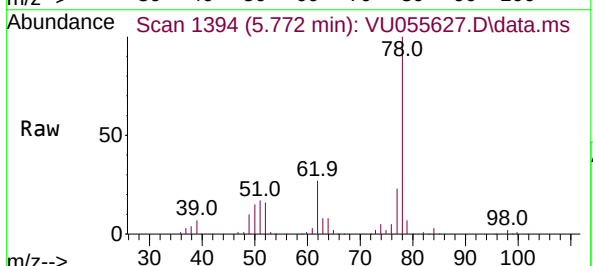
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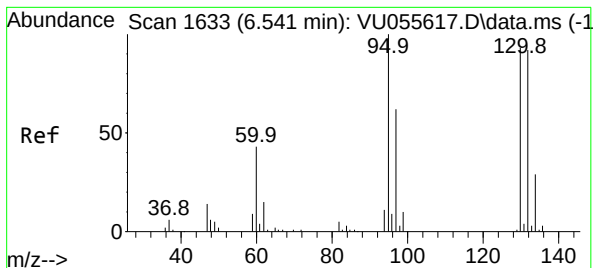
Tgt Ion: 62 Resp: 157838
Ion Ratio Lower Upper
62 100
98 8.1 7.0 10.4



#33
Benzene
Concen: 3.966 ug/L
RT: 5.772 min Scan# 1394
Delta R.T. 0.000 min
Lab File: VU055627.D
Acq: 03 Oct 2023 01:01

Tgt Ion: 78 Resp: 193428





#34

Trichloroethene

Concen: 0.819 ug/L

RT: 6.541 min Scan# 1

Delta R.T. 0.000 min

Lab File: VU055627.D

Acq: 03 Oct 2023 01:01

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 95 Resp: 11297

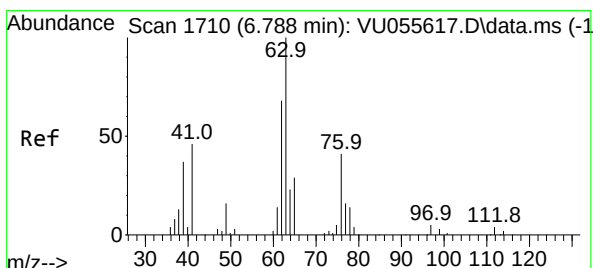
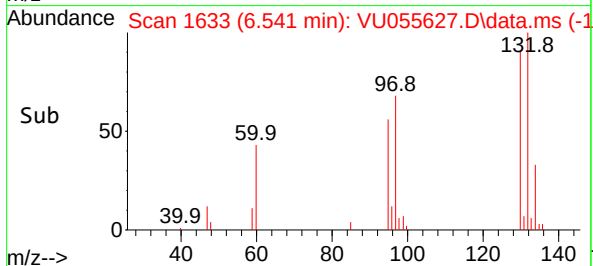
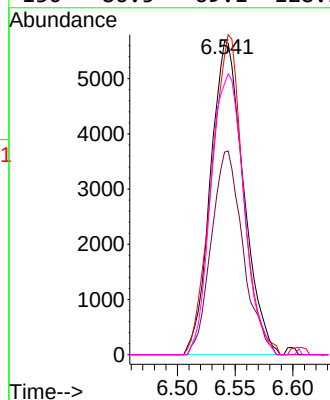
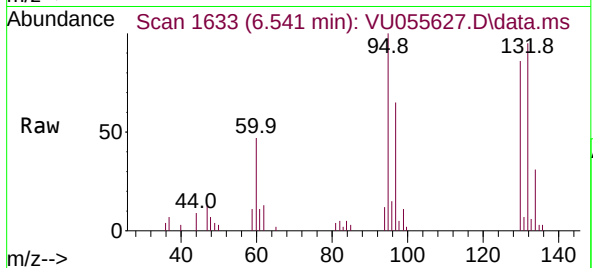
Ion Ratio Lower Upper

95 100

97 64.7 45.4 84.2

132 95.4 65.2 121.2

130 86.5 69.1 128.3



#37

1,2-Dichloropropane

Concen: 0.730 ug/L

RT: 6.689 min Scan# 1679

Delta R.T. -0.100 min

Lab File: VU055627.D

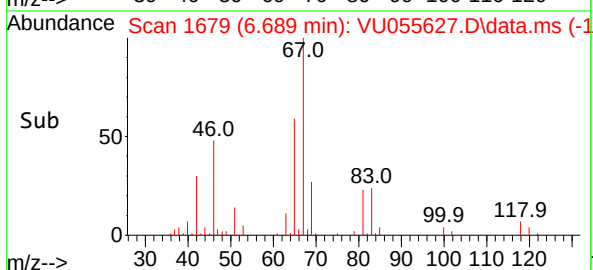
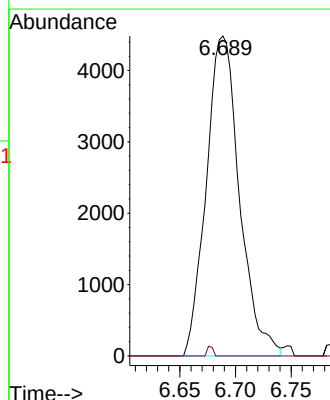
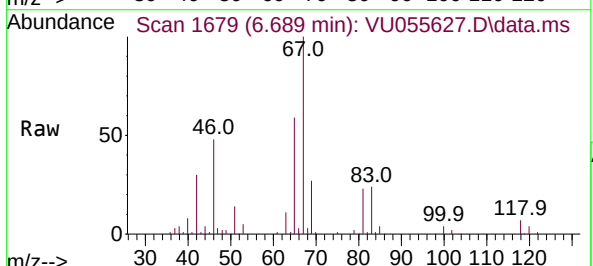
Acq: 03 Oct 2023 01:01

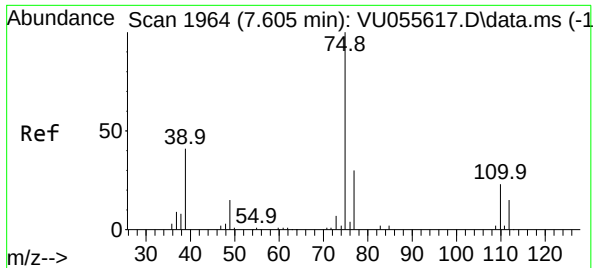
Tgt Ion: 63 Resp: 9311

Ion Ratio Lower Upper

63 100

112 0.5 3.0 4.6#





#39

cis-1,3-Dichloropropene

Concen: 0.136 ug/L

RT: 7.570 min Scan# 1964

Delta R.T. -0.035 min

Lab File: VU055627.D

Acq: 03 Oct 2023 01:01

Instrument :

MSVOA_U

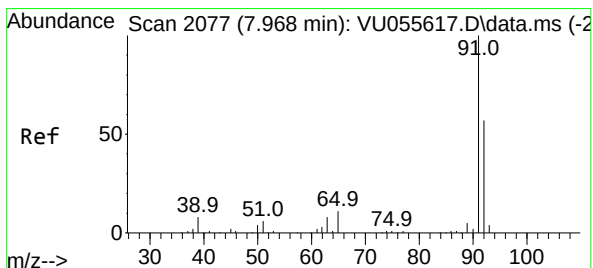
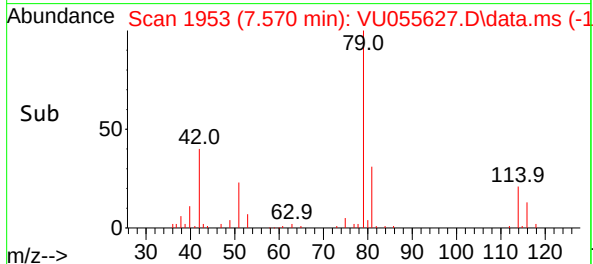
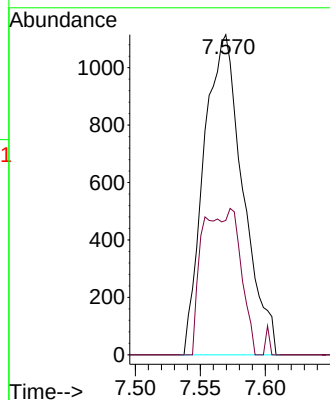
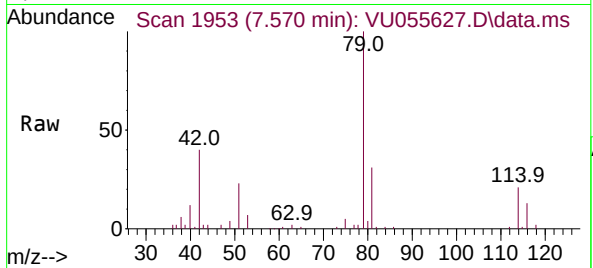
ClientSampleId :

Tgt Ion: 75 Resp: 2324

Ion Ratio Lower Upper

75 100

77 42.0 21.6 40.2#



#42

Toluene

Concen: 0.180 ug/L

RT: 7.968 min Scan# 2077

Delta R.T. 0.000 min

Lab File: VU055627.D

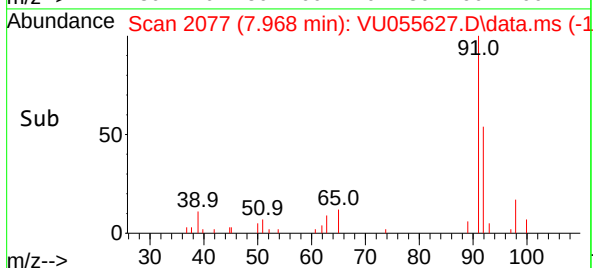
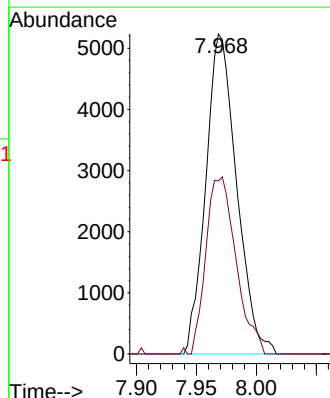
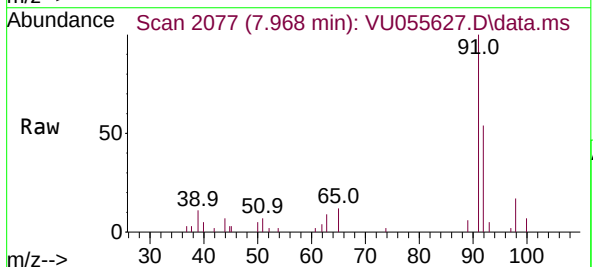
Acq: 03 Oct 2023 01:01

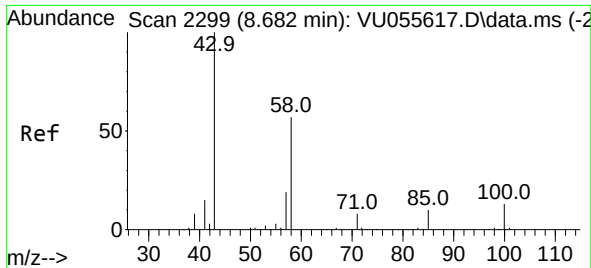
Tgt Ion: 91 Resp: 9372

Ion Ratio Lower Upper

91 100

92 54.1 40.3 74.8

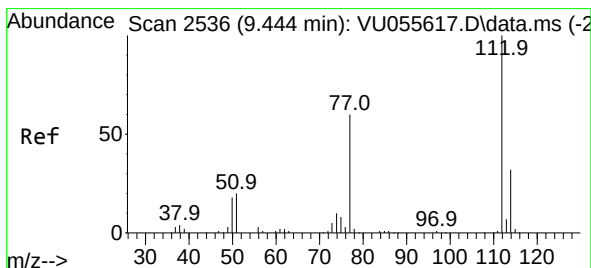
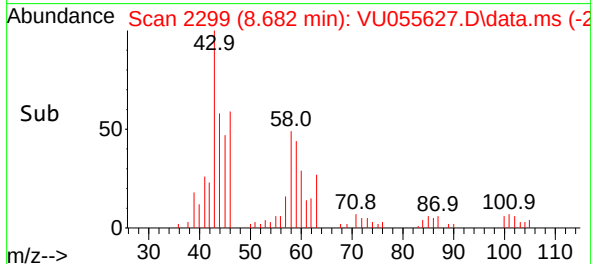
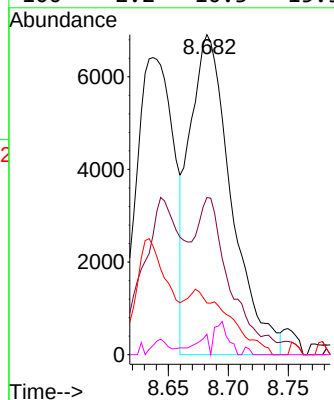
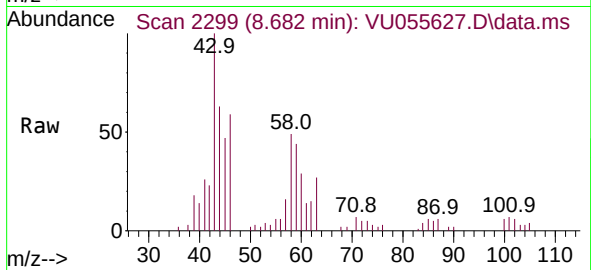




#48
2-Hexanone
Concen: 3.736 ug/L
RT: 8.682 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU055627.D
Acq: 03 Oct 2023 01:01

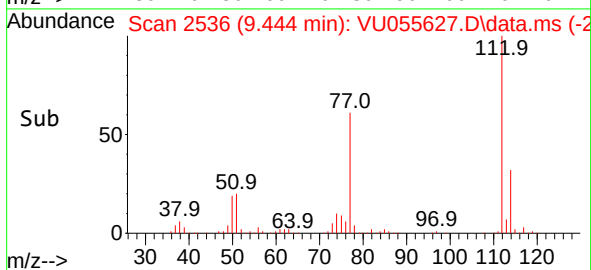
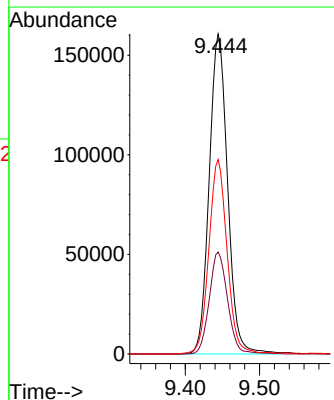
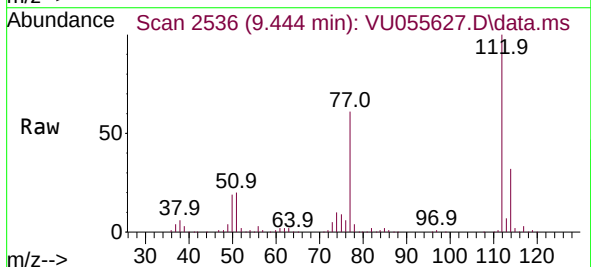
Instrument :
MSVOA_U
ClientSampleId :

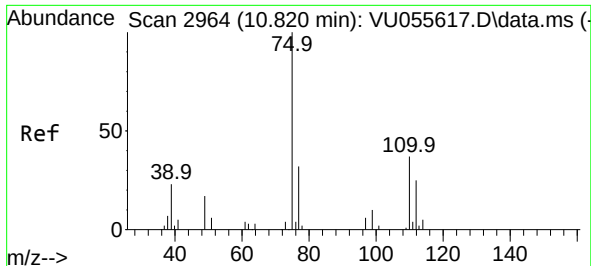
Tgt Ion:	43	Resp:	16756
Ion Ratio	Lower	Upper	
43	100		
58	34.3	48.5	72.7#
57	20.0	17.0	25.4
100	2.2	10.3	15.5#



#51
Chlorobenzene
Concen: 8.287 ug/L
RT: 9.444 min Scan# 2536
Delta R.T. 0.000 min
Lab File: VU055627.D
Acq: 03 Oct 2023 01:01

Tgt Ion:	112	Resp:	276144
Ion Ratio	Lower	Upper	
112	100		
114	31.9	22.0	40.8
77	60.7	46.9	70.3

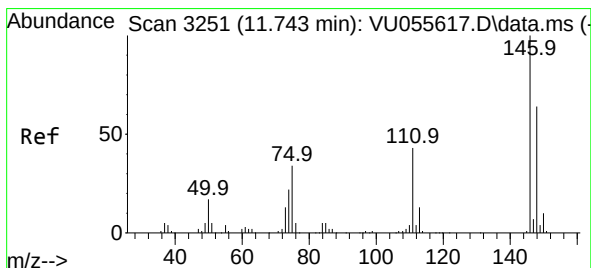
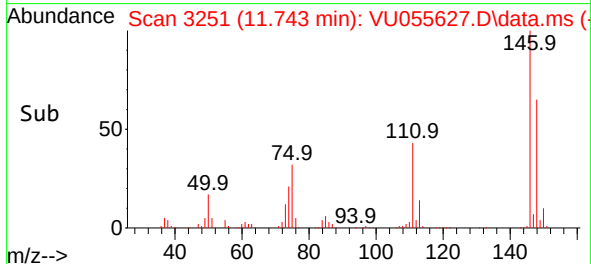
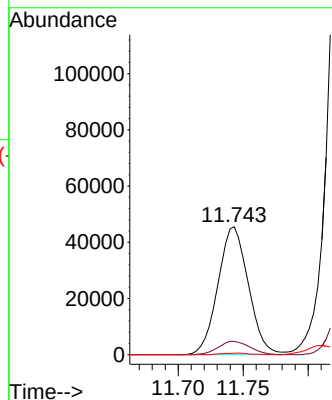
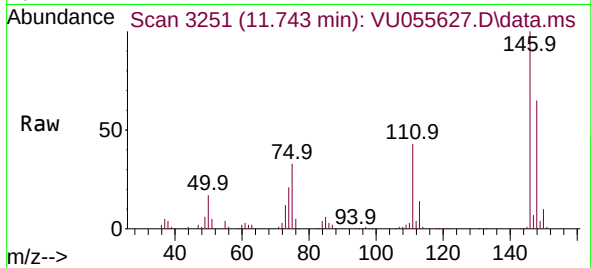




#61
1,2,3-Trichloropropane
Concen: 10.207 ug/L
RT: 11.743 min Scan# 31
Delta R.T. 0.923 min
Lab File: VU055627.D
Acq: 03 Oct 2023 01:01

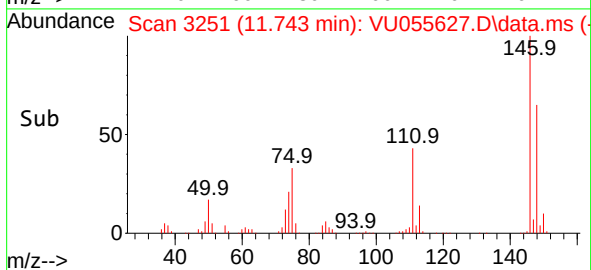
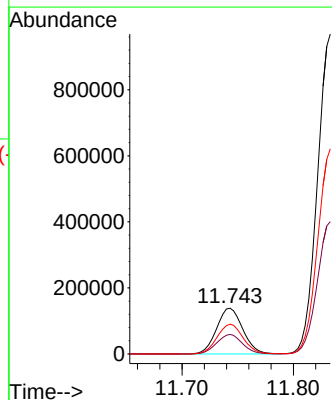
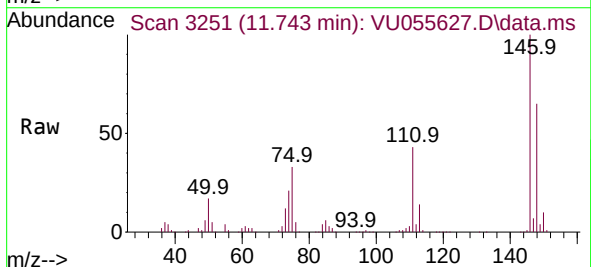
Instrument :
MSVOA_U
ClientSampleId :

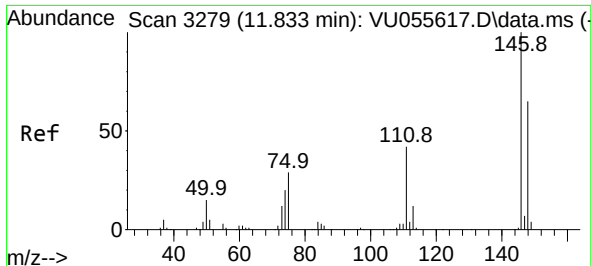
Tgt Ion: 75 Resp: 73972
Ion Ratio Lower Upper
75 100
110 10.9 30.6 45.8#
77 0.0 26.7 40.1#



#64
1,3-Dichlorobenzene
Concen: 8.842 ug/L
RT: 11.743 min Scan# 3251
Delta R.T. 0.000 min
Lab File: VU055627.D
Acq: 03 Oct 2023 01:01

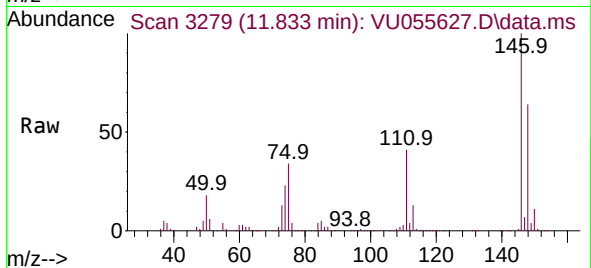
Tgt Ion:146 Resp: 226511
Ion Ratio Lower Upper
146 100
111 42.7 28.8 53.6
148 64.9 44.6 82.8



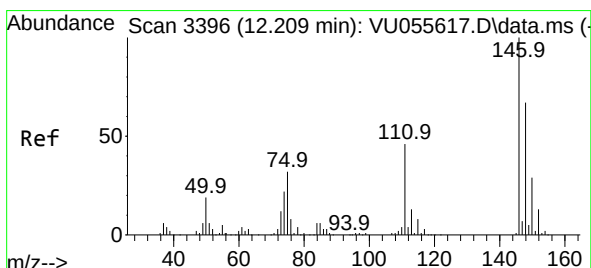
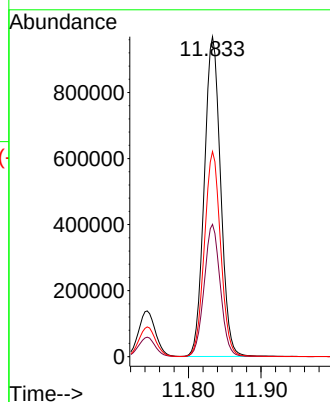
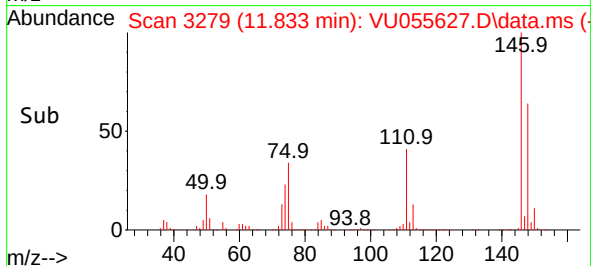


#65
1,4-Dichlorobenzene
Concen: 59.068 ug/L
RT: 11.833 min Scan# 3279
Delta R.T. 0.000 min
Lab File: VU055627.D
Acq: 03 Oct 2023 01:01

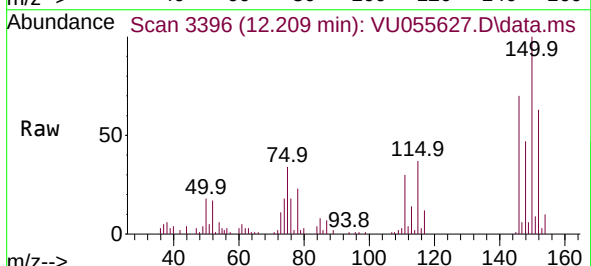
Instrument :
MSVOA_U
ClientSampleId :



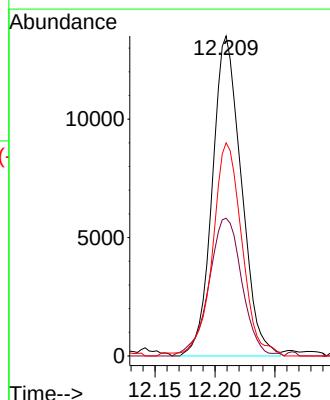
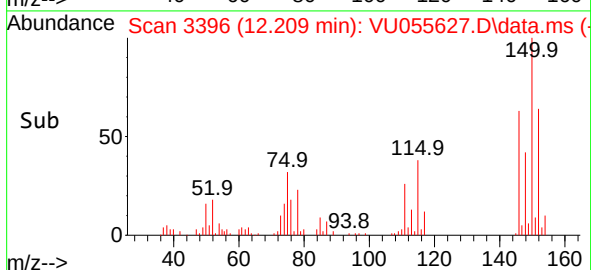
Tgt Ion:146 Resp: 1512373
Ion Ratio Lower Upper
146 100
111 41.3 29.0 53.8
148 64.1 45.4 84.4

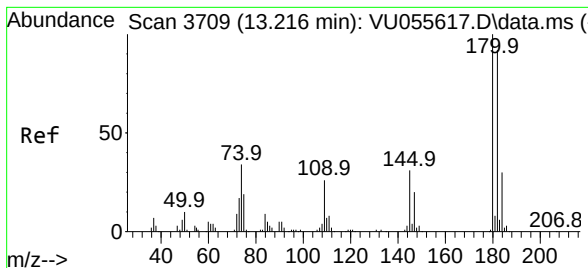


#67
1,2-Dichlorobenzene
Concen: 0.967 ug/L
RT: 12.209 min Scan# 3396
Delta R.T. 0.000 min
Lab File: VU055627.D
Acq: 03 Oct 2023 01:01



Tgt Ion:146 Resp: 22723
Ion Ratio Lower Upper
146 100
111 43.1 34.6 52.0
148 66.6 51.8 77.8





#69

1,3,5-Trichlorobenzene

Concen: 0.826 ug/L

RT: 13.843 min Scan# 3904

Delta R.T. 0.627 min

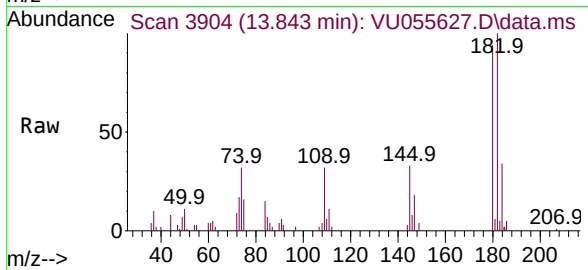
Lab File: VU055627.D

Acq: 03 Oct 2023 01:01

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:180 Resp: 14570

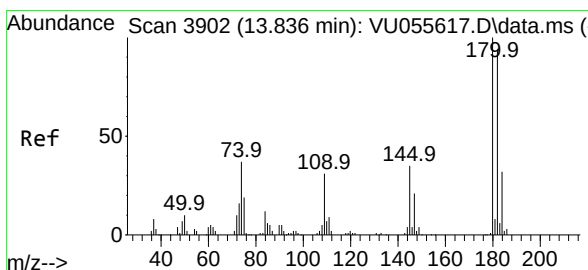
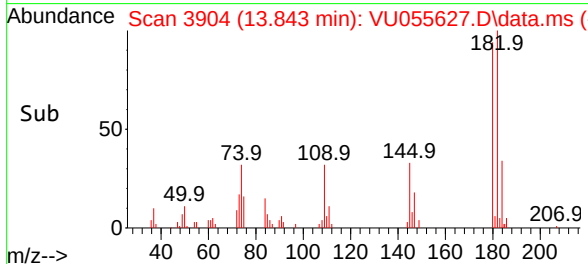
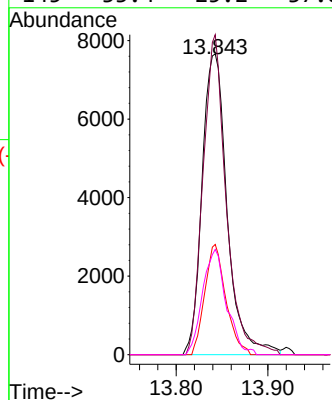
Ion Ratio Lower Upper

180 100

182 97.8 77.1 115.7

184 30.8 24.0 36.0

145 33.4 25.2 37.8



#70

1,2,4-trichlorobenzene

Concen: 1.083 ug/L

RT: 13.843 min Scan# 3904

Delta R.T. 0.006 min

Lab File: VU055627.D

Acq: 03 Oct 2023 01:01

Tgt Ion:180 Resp: 14570

Ion Ratio Lower Upper

180 100

182 97.8 76.4 114.6

145 33.4 25.4 38.0

