

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU032323\
 Data File : VU053369.D
 Acq On : 23 Mar 2023 14:14
 Operator : JC/MD
 Sample : 02037-01
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 E45E4

Quant Time: Mar 24 12:20:32 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM031523WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Mar 23 02:41:20 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.243	114	117776	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.414	117	117093	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.809	152	71602	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	39492	36.346	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	72.700%
7) Chloroethane-d5	1.912	69	34338	39.070	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	78.140%
11) 1,1-Dichloroethene-d2	2.572	63	72948	38.756	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	77.520%
21) 2-Butanone-d5	4.636	46	59889	118.840	ug/L	0.02
Spiked Amount	100.000	Range	40 - 130	Recovery	=	118.840%
24) Chloroform-d	5.060	84	70131	39.188	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	78.380%
26) 1,2-Dichloroethane-d4	5.697	65	46428	41.773	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	83.540%
32) Benzene-d6	5.723	84	144139	37.952	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	75.900%
36) 1,2-Dichloropropane-d6	6.687	67	49749	40.586	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	81.180%
41) Toluene-d8	7.896	98	136790	38.685	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	77.360%#
43) trans-1,3-Dichloroprop...	8.173	79	23365	38.634	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	77.260%
47) 2-Hexanone-d5	8.629	63	38250	99.812	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	99.810%
56) 1,1,2,2-Tetrachloroeth...	10.751	84	78479	49.423	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	98.840%
66) 1,2-Dichlorobenzene-d4	11.809	152	60720	43.796	ug/L	-0.38
Spiked Amount	50.000	Range	80 - 120	Recovery	=	87.600%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.604	62	27258	21.997	ug/L	93
8) Chloroethane	1.932	64	18510	25.288	ug/L	95
12) 1,1-Dichloroethene	2.581	96	36167	41.814	ug/L	90
13) Acetone	2.626	43	1044998	1820.701	ug/L	98
14) Carbon disulfide	2.797	76	4102	1.566	ug/L #	95
16) Methylene chloride	3.044	84	237501	226.341	ug/L	96
17) trans-1,2-Dichloroethene	3.353	96	233918	266.542	ug/L	95
19) 1,1-Dichloroethane	3.870	63	18830368	10511.363	ug/L	99
20) cis-1,2-Dichloroethene	4.665	96	15253954	14798.400	ug/L	89
22) 2-Butanone	4.700	43	509138	778.631	ug/L	97
27) 1,2-Dichloroethane	5.790	62	27411	19.370	ug/L	98
29) Cyclohexane	5.382	56	5873	3.366	ug/L	89
30) 1,1,1-Trichloroethane	5.317	97	11164914	6995.341	ug/L	98
31) Carbon tetrachloride	5.321	117	1383144	1057.790	ug/L	100
33) Benzene	5.771	78	319435	78.688	ug/L	100
34) Trichloroethene	6.536	95	44715	42.244	ug/L	99
35) Methylcyclohexane	6.758	83	11983	6.458	ug/L	91
40) 4-Methyl-2-pentanone	7.787	43	551589	473.823	ug/L	98
42) Toluene	7.973	91	13878431	3179.999	ug/L	97

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

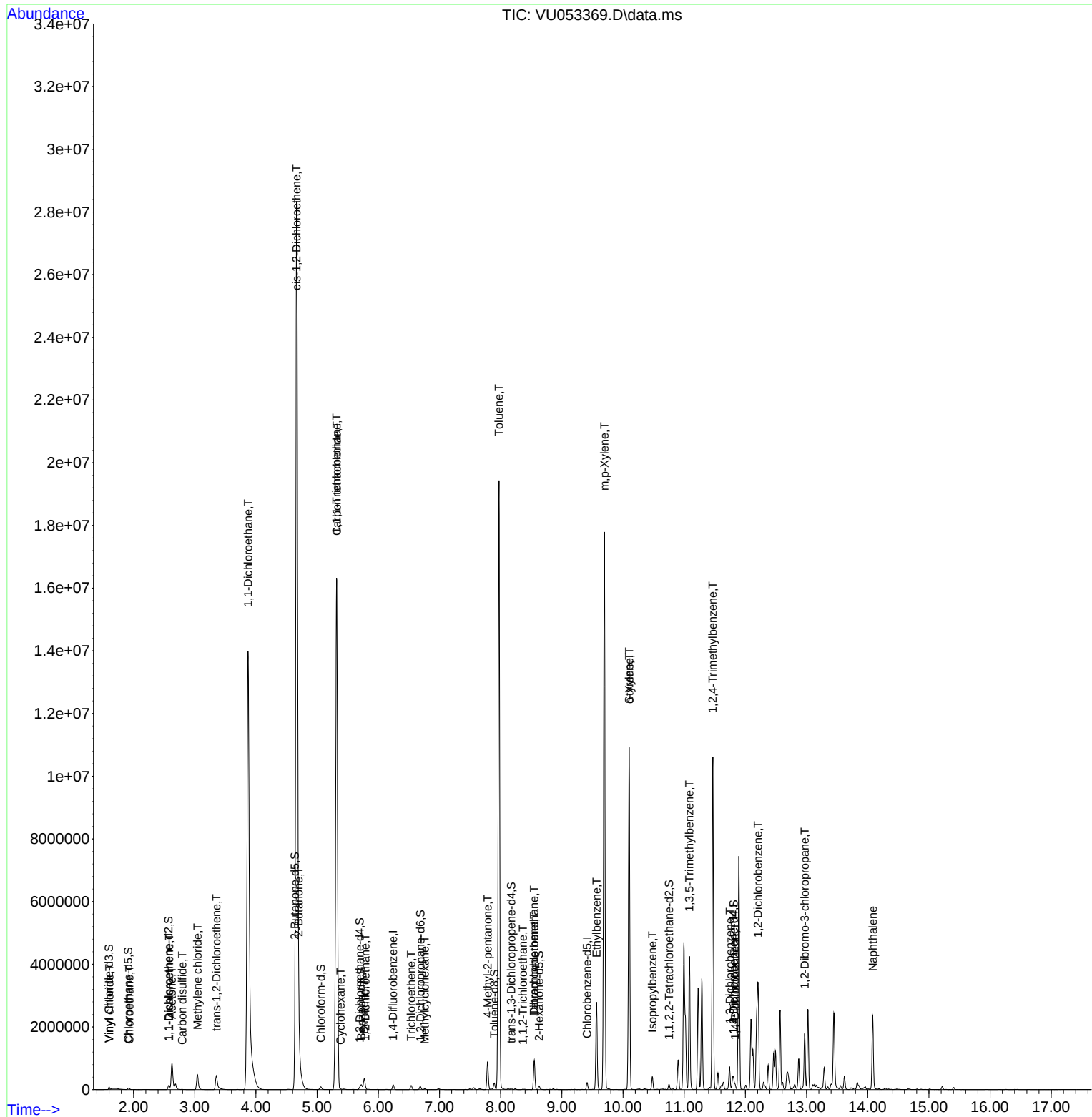
45) 1,1,2-Trichloroethane	8.366	97	6000	5.818	ug/L #	18
46) Tetrachloroethene	8.549	164	176832	256.782	ug/L	98
49) Dibromochloromethane	8.549	129	189432	179.565	ug/L #	12
52) Ethylbenzene	9.568	91	1999310	403.966	ug/L	100
53) m,p-Xylene	9.697	106	4970613	2690.854	ug/L	98
54) o-Xylene	10.102	106	2826953	1547.334	ug/L	100
55) Styrene	10.102	104	132818	43.619	ug/L #	1
61) Isopropylbenzene	10.481	105	265715	46.968	ug/L	99
62) 1,3,5-Trimethylbenzene	11.086	105	2244088	479.208	ug/L	99
63) 1,2,4-Trimethylbenzene	11.468	105	5655234	1238.933	ug/L	100
64) 1,3-Dichlorobenzene	11.745	146	8542	3.600	ug/L	93
65) 1,4-Dichlorobenzene	11.832	146	51737	21.721	ug/L	94
67) 1,2-Dichlorobenzene	12.208	146	1089387	459.379	ug/L	99
68) 1,2-Dibromo-3-chloropr...	12.970	75	7977	20.275	ug/L #	7
71) Naphthalene	14.082	128	1763968	387.199	ug/L	100

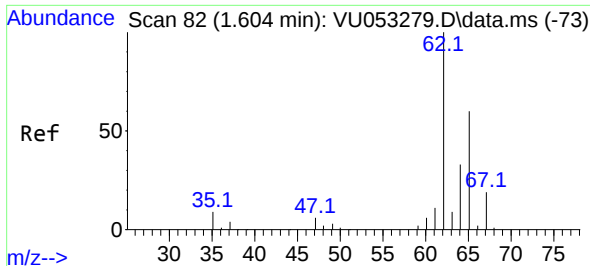
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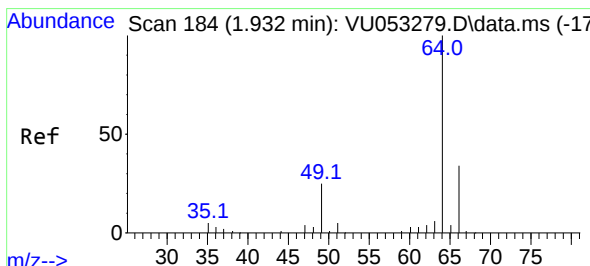
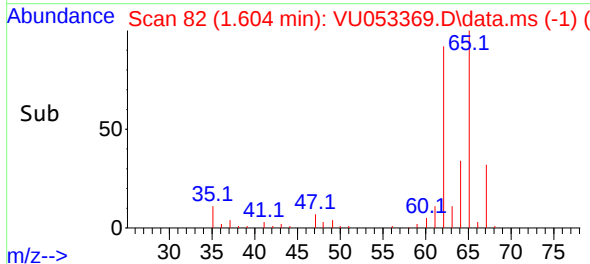
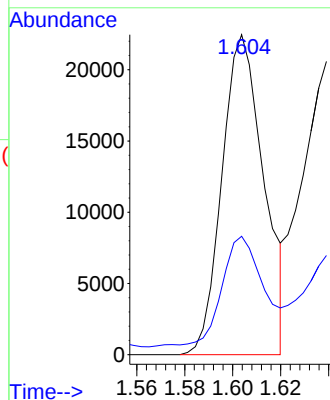
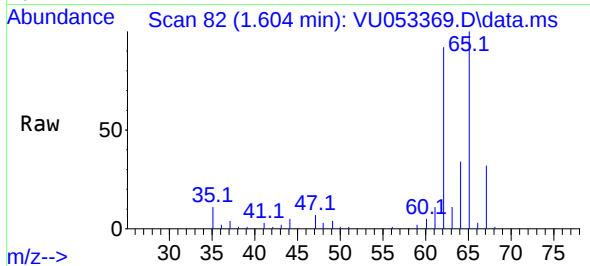




#5
 Vinyl chloride
 Concen: 21.997 ug/L
 RT: 1.604 min Scan# 81
 Delta R.T. -0.000 min
 Lab File: VU053369.D
 Acq: 23 Mar 2023 14:14

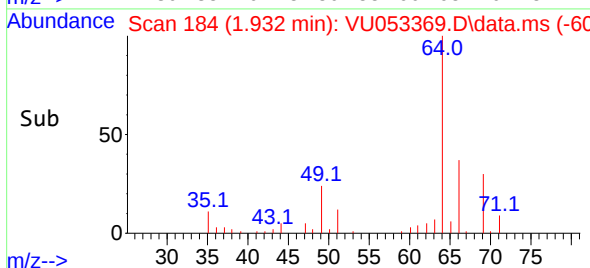
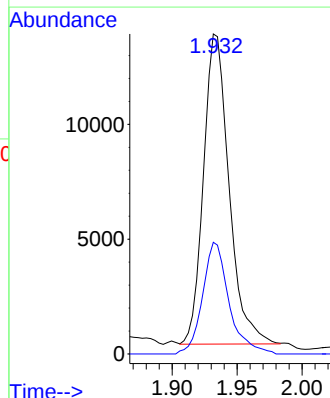
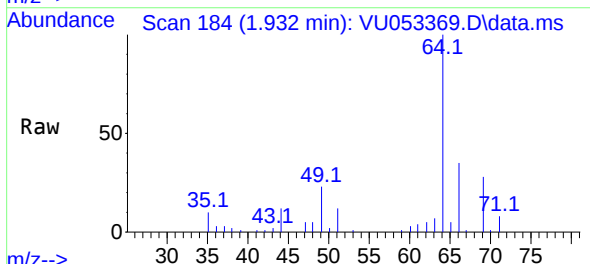
Instrument :
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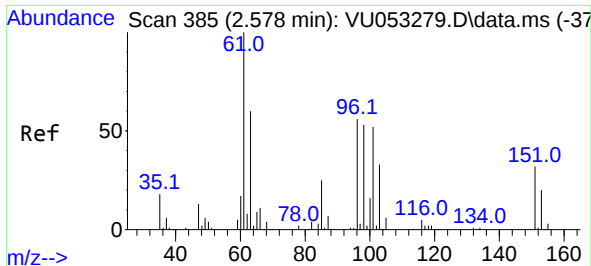
Tgt Ion: 62 Resp: 27258
 Ion Ratio Lower Upper
 62 100
 64 37.0 23.2 43.0



#8
 Chloroethane
 Concen: 25.288 ug/L
 RT: 1.932 min Scan# 184
 Delta R.T. -0.000 min
 Lab File: VU053369.D
 Acq: 23 Mar 2023 14:14

Tgt Ion: 64 Resp: 18510
 Ion Ratio Lower Upper
 64 100
 66 34.9 22.6 42.0





#12

1,1-Dichloroethene

Concen: 41.814 ug/L

RT: 2.581 min Scan# 3

Delta R.T. 0.003 min

Lab File: VU053369.D

Acq: 23 Mar 2023 14:14

Instrument :

MSVOA_U

ClientSampleId :

E45E4

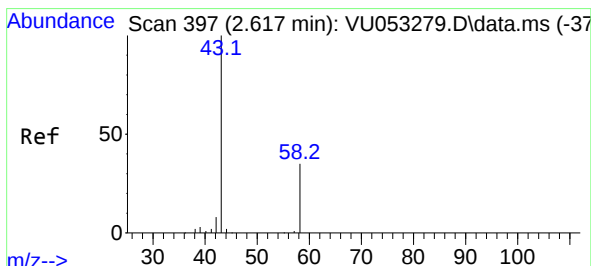
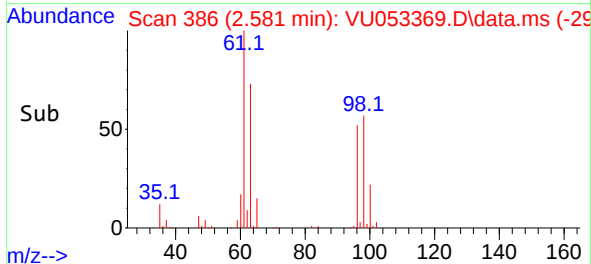
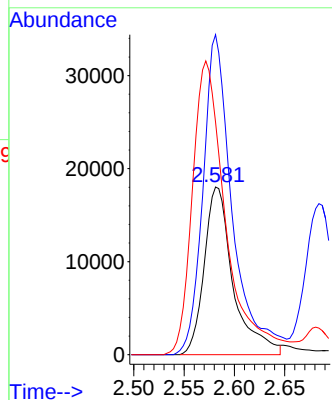
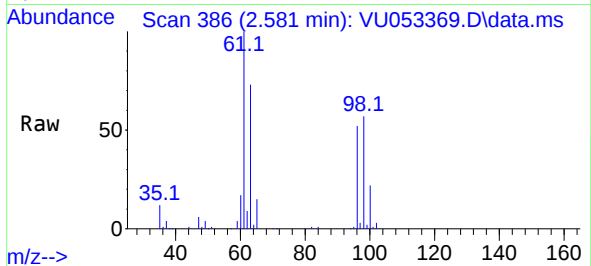
Tgt Ion: 96 Resp: 36167

Ion Ratio Lower Upper

96 100

61 190.8 122.2 226.9

63 138.6 89.9 166.9



#13

Acetone

Concen: 1820.701 ug/L

RT: 2.626 min Scan# 400

Delta R.T. -0.007 min

Lab File: VU053369.D

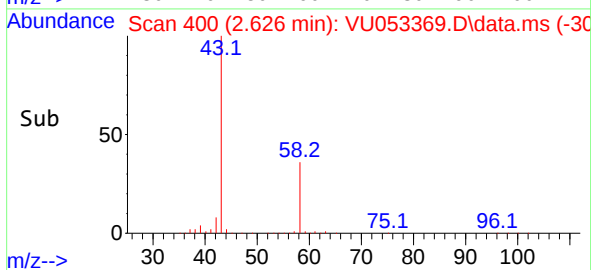
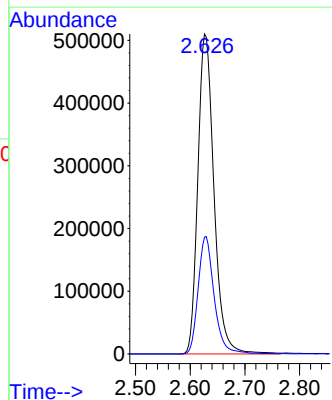
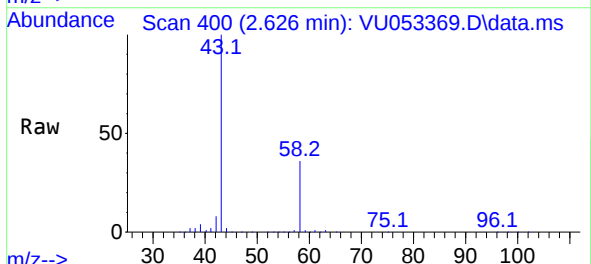
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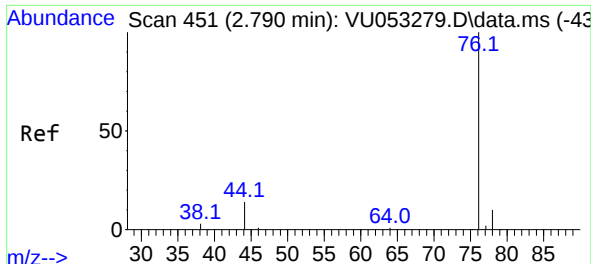
Tgt Ion: 43 Resp: 1044998

Ion Ratio Lower Upper

43 100

58 36.4 0.0 75.0

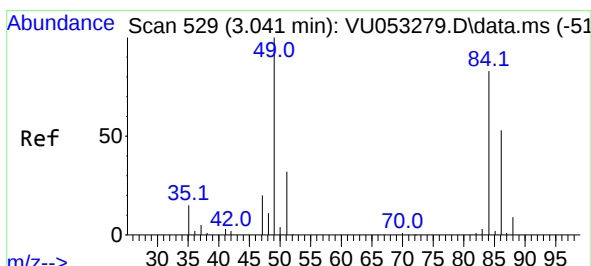
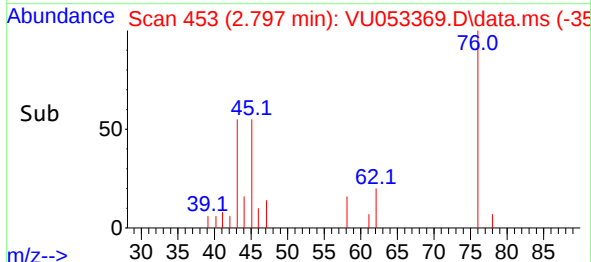
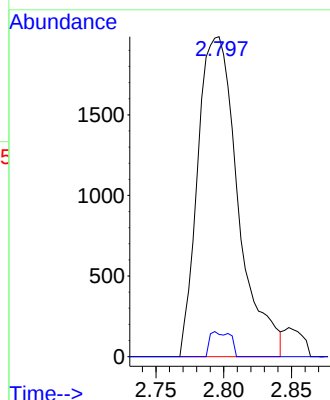
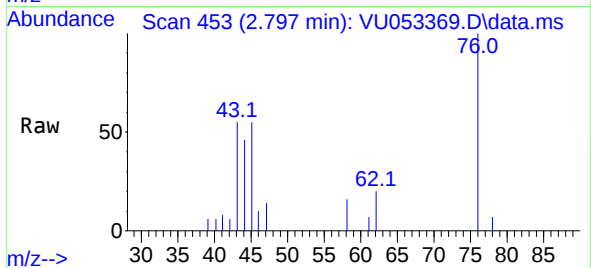




#14
Carbon disulfide
Concen: 1.566 ug/L
RT: 2.797 min Scan# 41
Delta R.T. 0.003 min
Lab File: VU053369.D
Acq: 23 Mar 2023 14:14

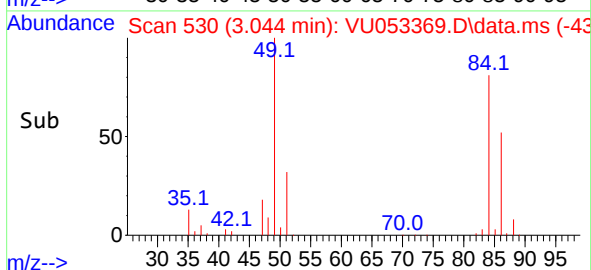
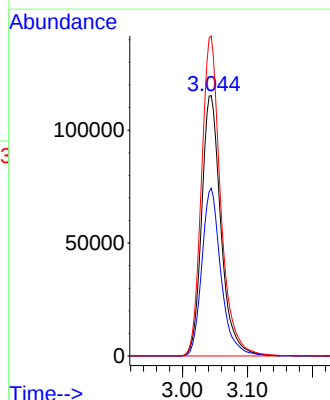
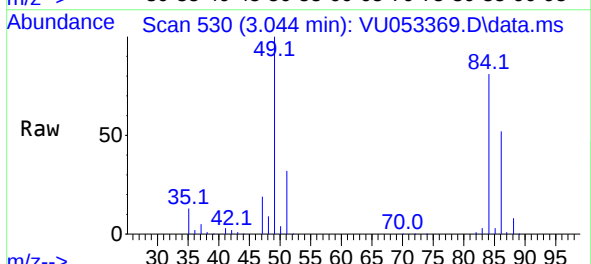
Instrument :
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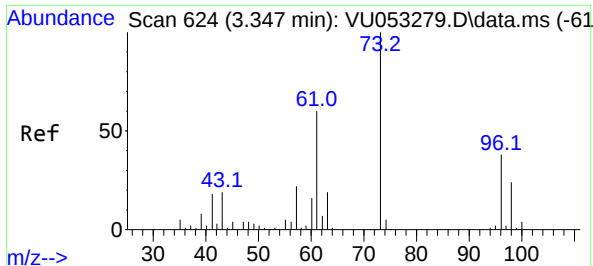
Tgt Ion: 76 Resp: 4102
Ion Ratio Lower Upper
76 100
78 7.0 7.0 10.6#



#16
Methylene chloride
Concen: 226.341 ug/L
RT: 3.044 min Scan# 530
Delta R.T. -0.000 min
Lab File: VU053369.D
Acq: 23 Mar 2023 14:14

Tgt Ion: 84 Resp: 237501
Ion Ratio Lower Upper
84 100
86 64.4 44.4 82.4
49 122.9 81.6 151.6

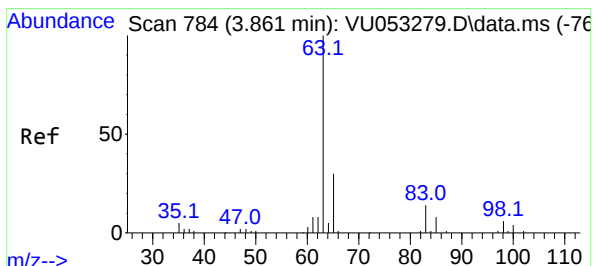
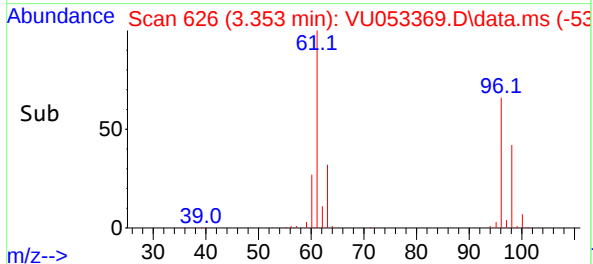
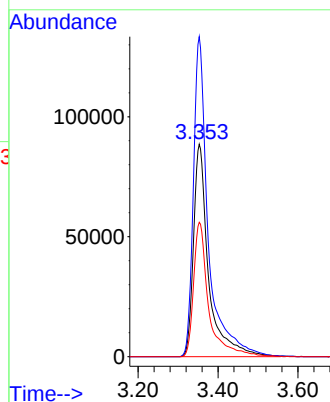
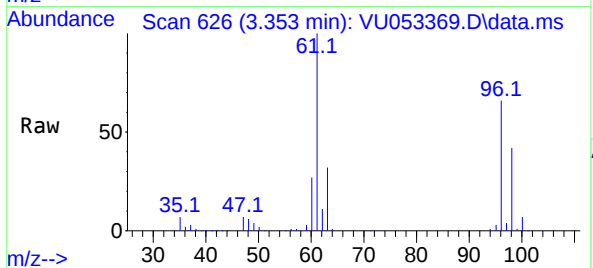




#17
trans-1,2-Dichloroethene
Concen: 266.542 ug/L
RT: 3.353 min Scan# 61
Delta R.T. 0.003 min
Lab File: VU053369.D
Acq: 23 Mar 2023 14:14

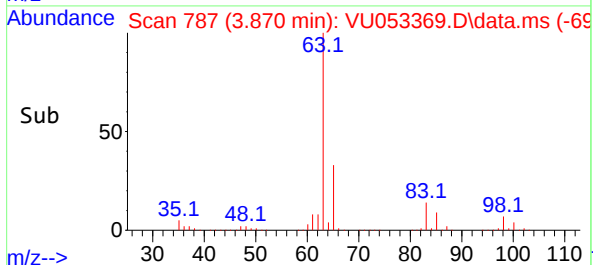
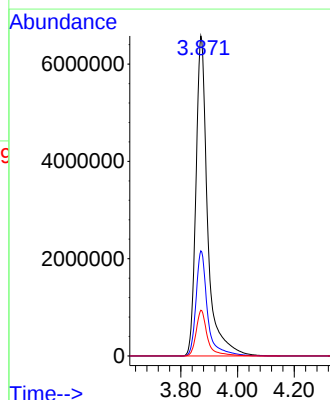
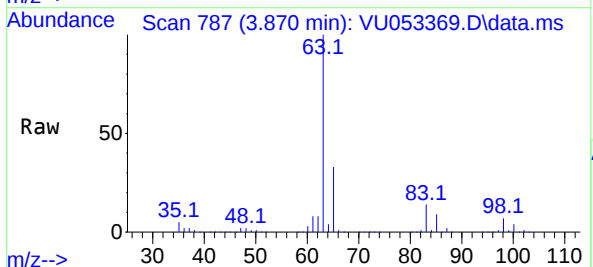
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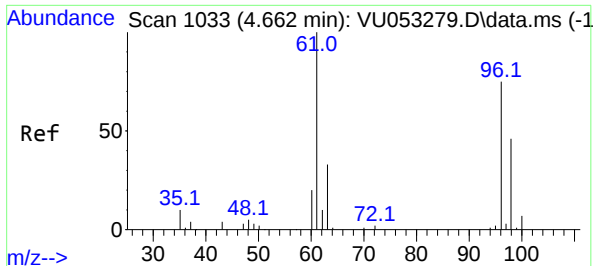
Tgt Ion: 96 Resp: 233918
Ion Ratio Lower Upper
96 100
61 150.6 99.6 185.0
98 63.3 45.5 84.5



#19
1,1-Dichloroethane
Concen: 10511.363 ug/L
RT: 3.870 min Scan# 787
Delta R.T. 0.006 min
Lab File: VU053369.D
Acq: 23 Mar 2023 14:14

Tgt Ion: 63 Resp:18830368
Ion Ratio Lower Upper
63 100
65 32.8 22.8 42.4
83 14.3 9.4 17.6

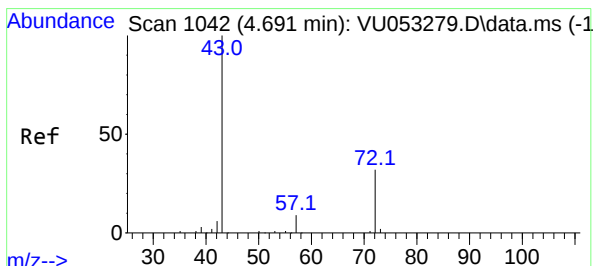
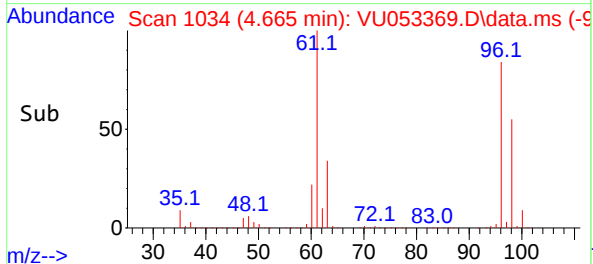
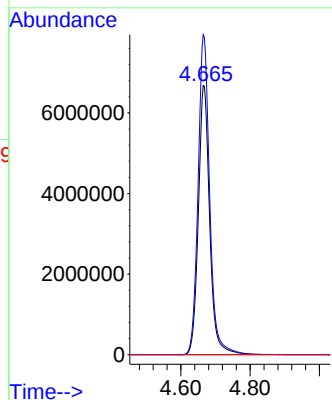
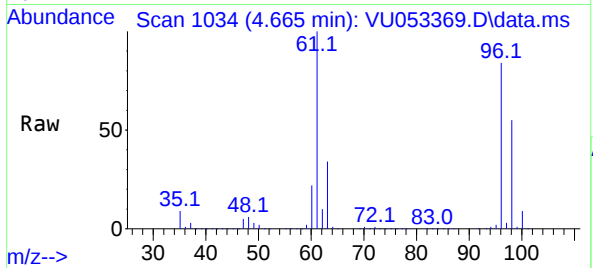




#20
cis-1,2-Dichloroethene
Concen: 14798.400 ug/L
RT: 4.665 min Scan# 1033
Delta R.T. 0.003 min
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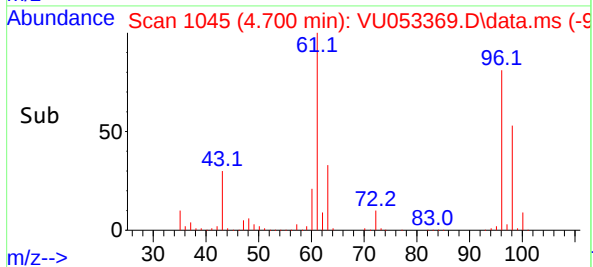
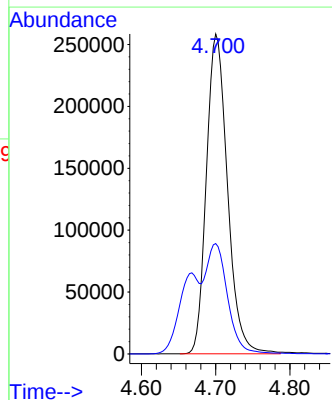
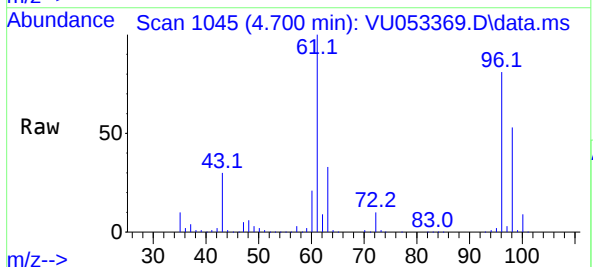
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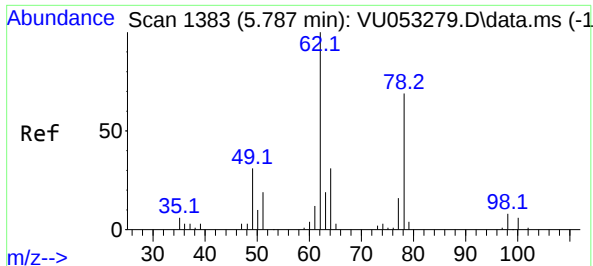
Tgt Ion: 96 Resp:15253954
Ion Ratio Lower Upper
96 100
61 118.9 92.5 171.7
68 0.0 0.0 0.0



#22
2-Butanone
Concen: 778.631 ug/L
RT: 4.700 min Scan# 1045
Delta R.T. -0.000 min
Lab File: VU053369.D
Acq: 23 Mar 2023 14:14

Tgt Ion: 43 Resp: 509138
Ion Ratio Lower Upper
43 100
72 33.4 16.0 47.9

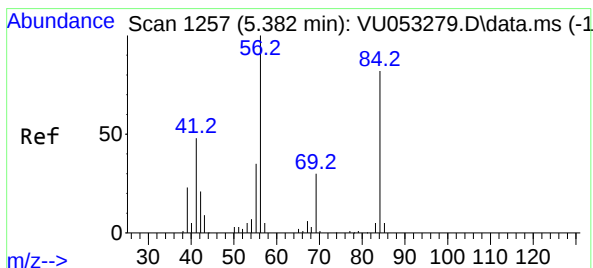
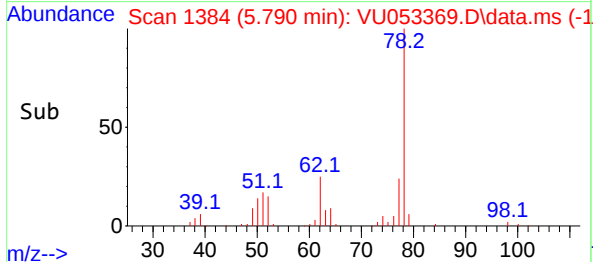
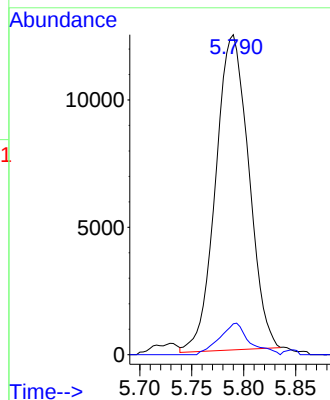
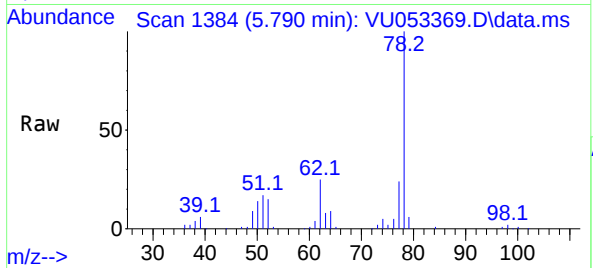




#27
1,2-Dichloroethane
Concen: 19.370 ug/L
RT: 5.790 min Scan# 11
Delta R.T. -0.000 min
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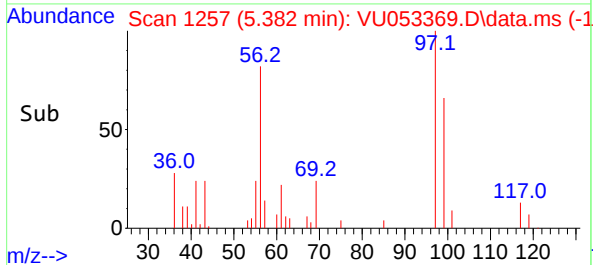
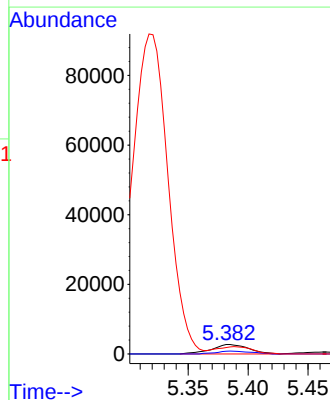
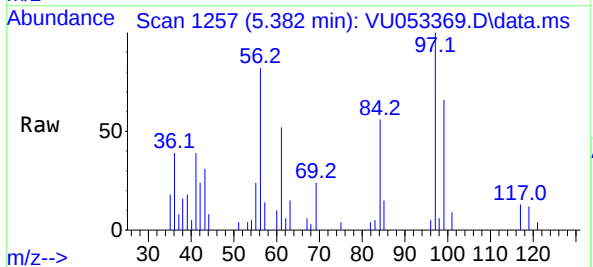
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ClientSampleId :
E45E4

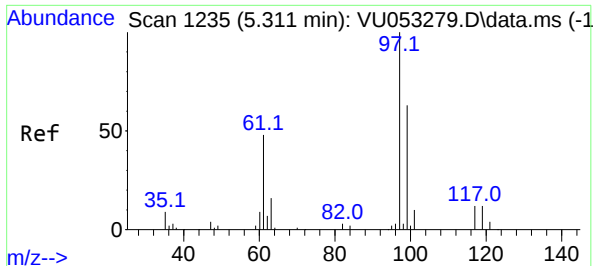
Tgt Ion: 62 Resp: 27411
Ion Ratio Lower Upper
62 100
98 9.6 7.0 10.6



#29
Cyclohexane
Concen: 3.366 ug/L
RT: 5.382 min Scan# 1257
Delta R.T. -0.003 min
Lab File: VU053369.D
Acq: 23 Mar 2023 14:14

Tgt Ion: 56 Resp: 5873
Ion Ratio Lower Upper
56 100
69 28.1 25.4 38.0
84 74.3 69.0 103.6

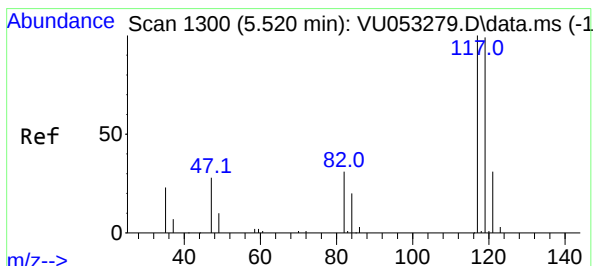
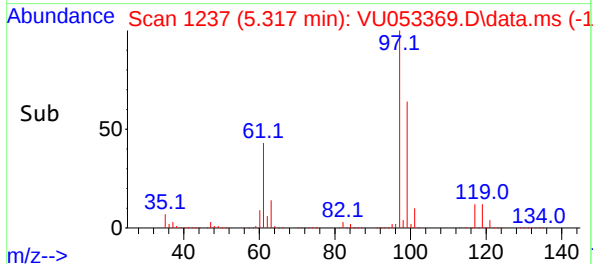
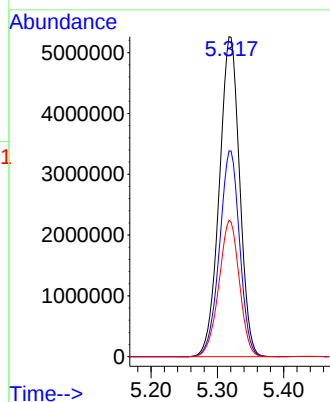
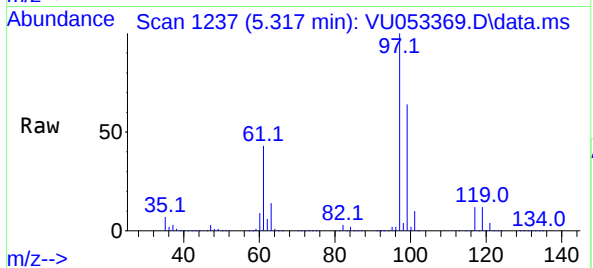




#30
1,1,1-Trichloroethane
Concen: 6995.341 ug/L
RT: 5.317 min Scan# 11
Delta R.T. 0.006 min
Lab File: VU053369.D
Acq: 23 Mar 2023 14:14

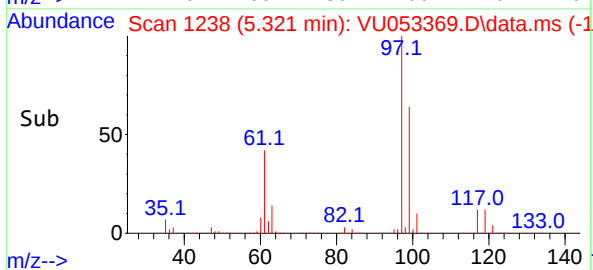
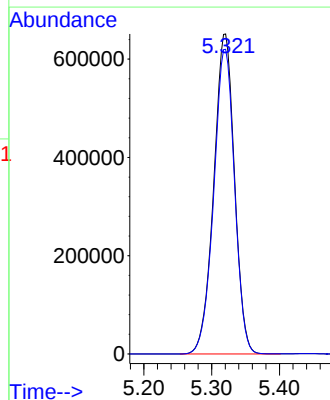
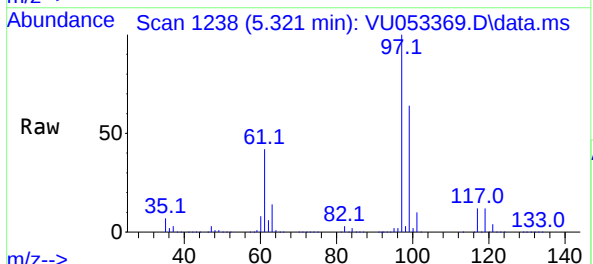
Instrument :
MSVOA_U
ClientSampleId :
E45E4

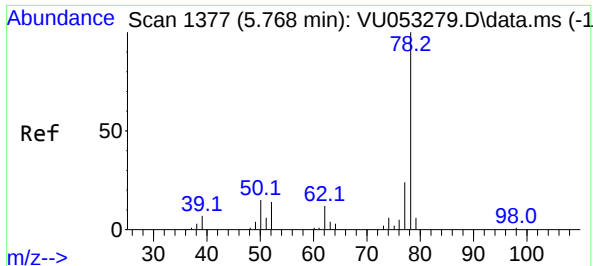
Tgt Ion: 97 Resp:11164914
Ion Ratio Lower Upper
97 100
99 64.0 50.6 76.0
61 43.0 36.0 54.0



#31
Carbon tetrachloride
Concen: 1057.790 ug/L
RT: 5.321 min Scan# 1238
Delta R.T. -0.199 min
Lab File: VU053369.D
Acq: 23 Mar 2023 14:14

Tgt Ion:117 Resp: 1383144
Ion Ratio Lower Upper
117 100
119 95.6 76.2 114.2

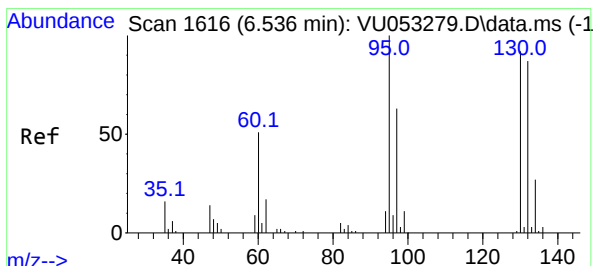
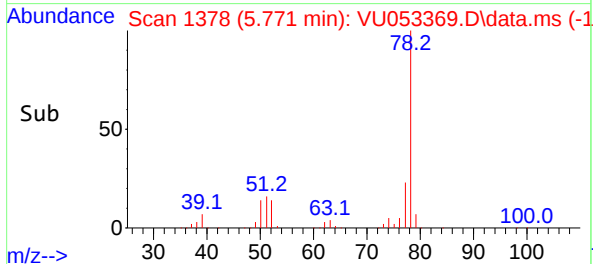
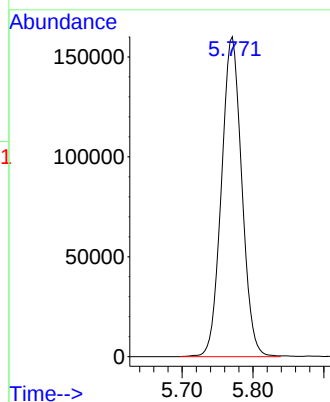
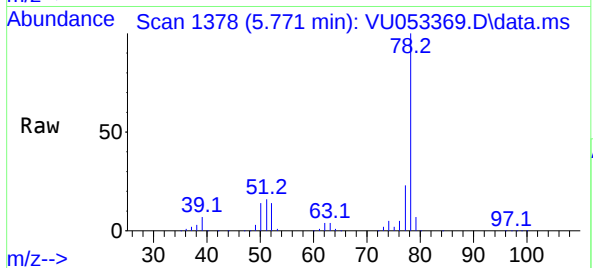




#33
Benzene
Concen: 78.688 ug/L
RT: 5.771 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU053369.D
Acq: 23 Mar 2023 14:14

Instrument :
MSVOA_U
ClientSampleId :
E45E4

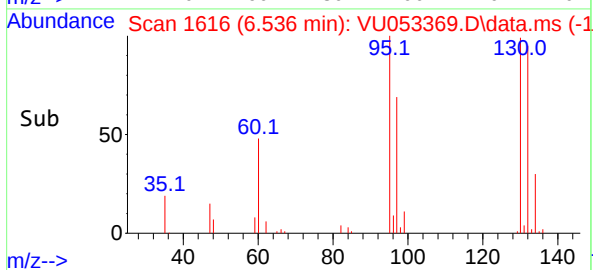
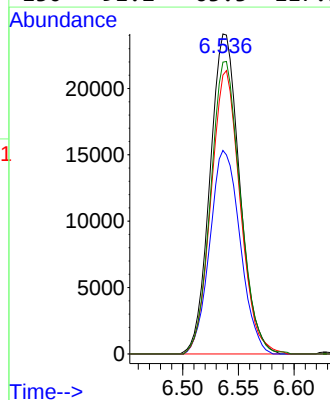
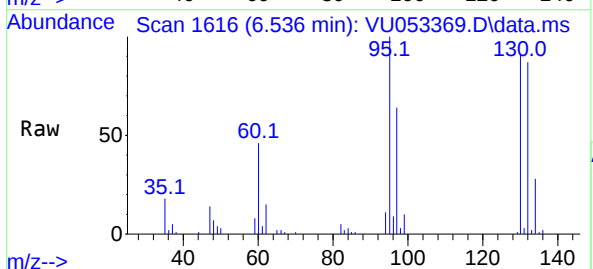
Tgt Ion: 78 Resp: 319435

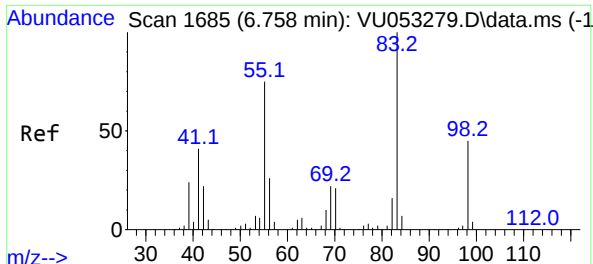


#34
Trichloroethene
Concen: 42.244 ug/L
RT: 6.536 min Scan# 1616
Delta R.T. -0.003 min
Lab File: VU053369.D
Acq: 23 Mar 2023 14:14

Tgt Ion: 95 Resp: 44715

Ion	Ratio	Lower	Upper
95	100		
97	63.6	43.8	81.3
132	87.2	61.5	114.3
130	91.2	63.3	117.5

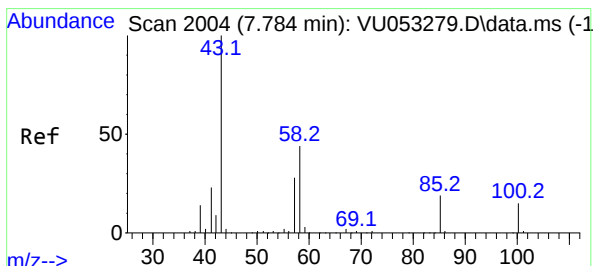
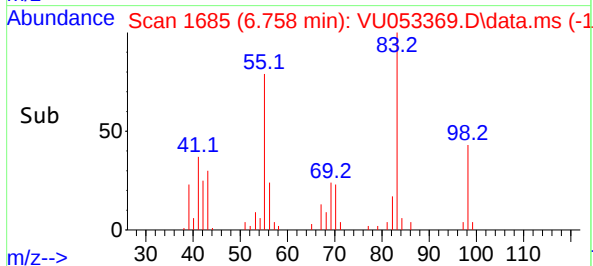
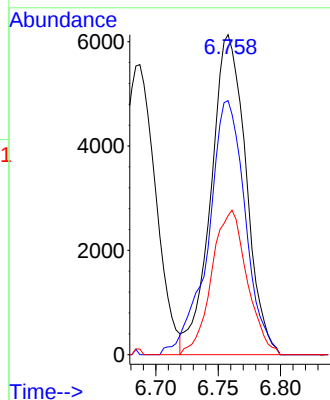
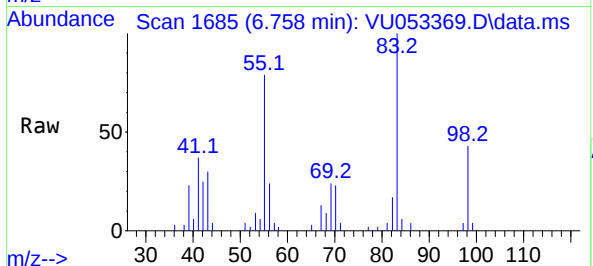




#35
Methylcyclohexane
Concen: 6.458 ug/L
RT: 6.758 min Scan# 1
Delta R.T. -0.000 min
Lab File: VU053369.D
Acq: 23 Mar 2023 14:14

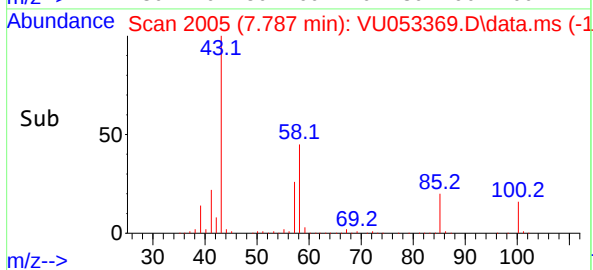
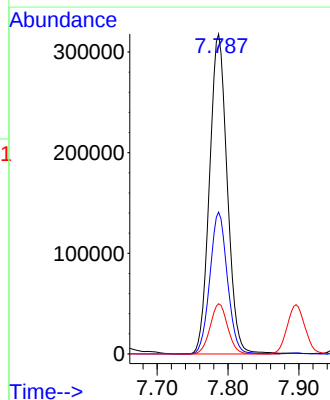
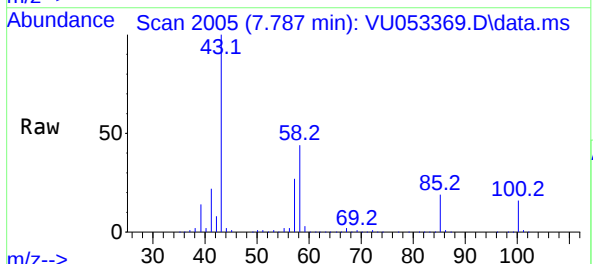
Instrument :
MSVOA_U
ClientSampleId :
E45E4

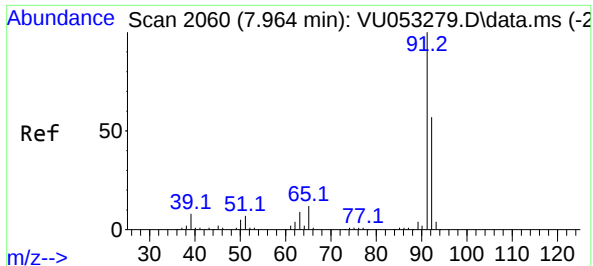
Tgt Ion: 83	Resp: 11983
Ion Ratio	Lower Upper
83 100	
55 83.6	58.2 87.4
98 45.6	35.4 53.2



#40
4-Methyl-2-pentanone
Concen: 473.823 ug/L
RT: 7.787 min Scan# 2005
Delta R.T. 0.003 min
Lab File: VU053369.D
Acq: 23 Mar 2023 14:14

Tgt Ion: 43	Resp: 551589
Ion Ratio	Lower Upper
43 100	
58 43.8	35.8 53.6
100 15.5	13.0 19.6

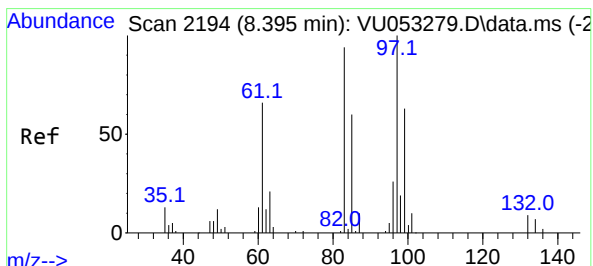
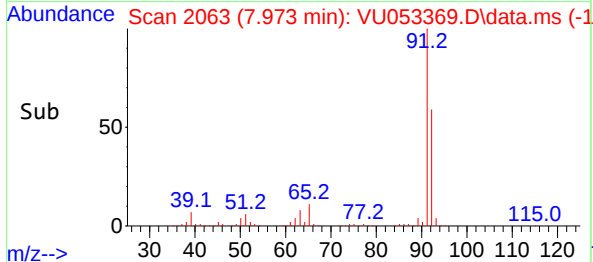
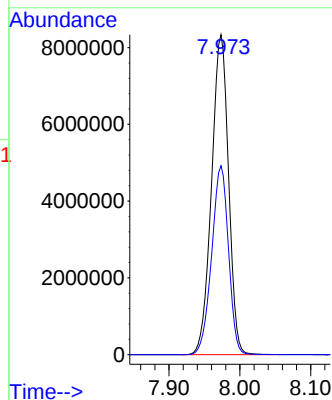
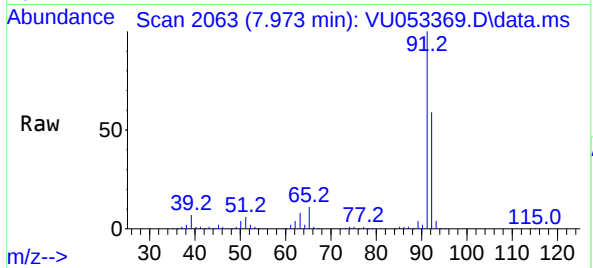




#42
Toluene
Concen: 3179.999 ug/L
RT: 7.973 min Scan# 2060
Delta R.T. 0.010 min
Lab File: VU053369.D
Acq: 23 Mar 2023 14:14

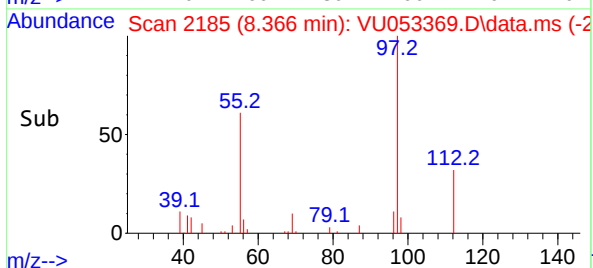
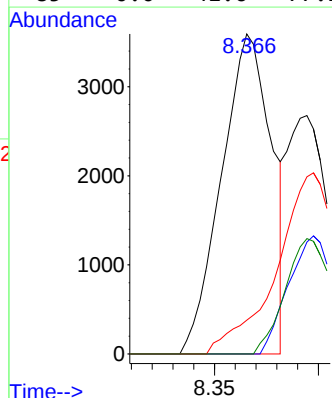
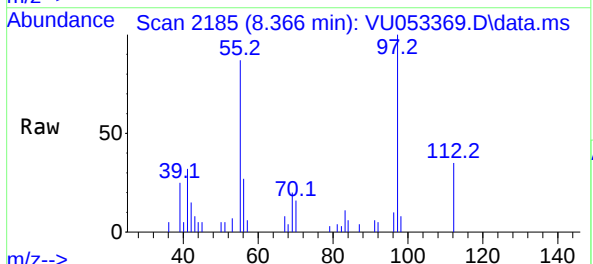
Instrument :
MSVOA_U
ClientSampleId :
E45E4

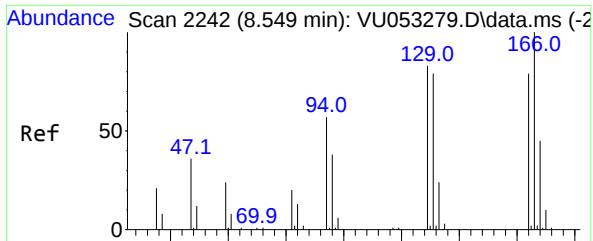
Tgt Ion: 91 Resp:13878431
Ion Ratio Lower Upper
91 100
92 59.0 39.6 73.6



#45
1,1,2-Trichloroethane
Concen: 5.818 ug/L
RT: 8.366 min Scan# 2185
Delta R.T. -0.029 min
Lab File: VU053369.D
Acq: 23 Mar 2023 14:14

Tgt Ion: 97 Resp: 6000
Ion Ratio Lower Upper
97 100
99 0.0 44.4 82.4#
83 10.5 63.8 118.6#
85 0.0 41.6 77.2#

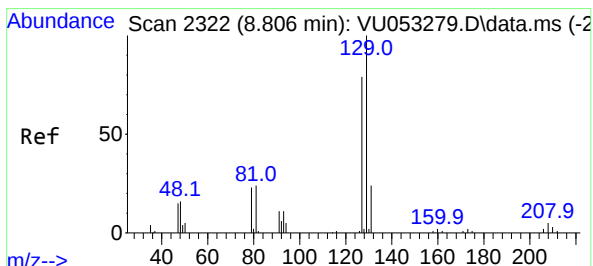
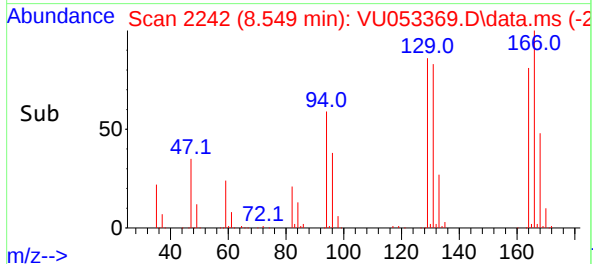
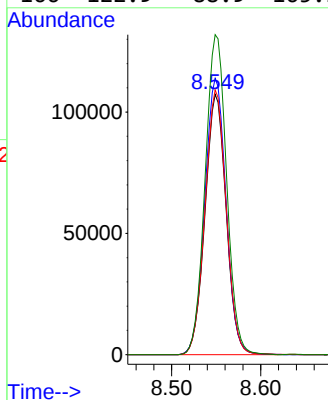
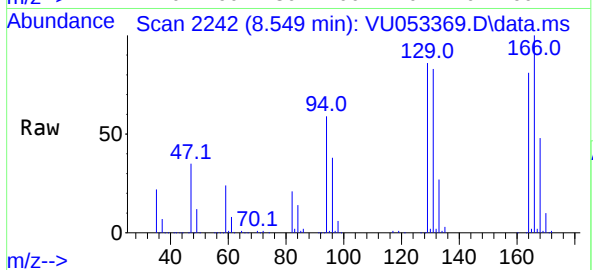




#46
Tetrachloroethene
Concen: 256.782 ug/L
RT: 8.549 min Scan# 211
Delta R.T. -0.000 min
Lab File: VU053369.D
Acq: 23 Mar 2023 14:14

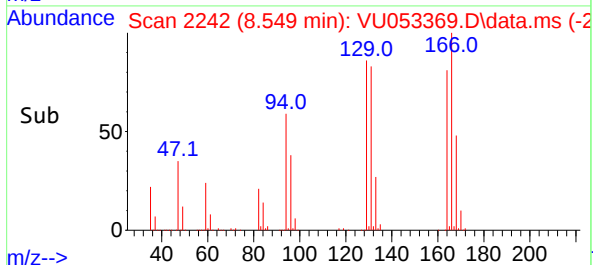
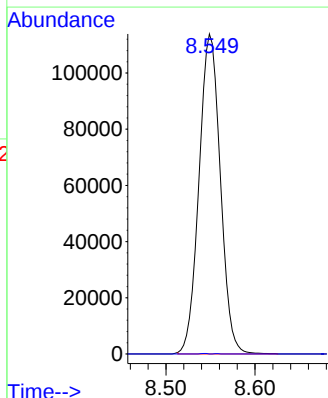
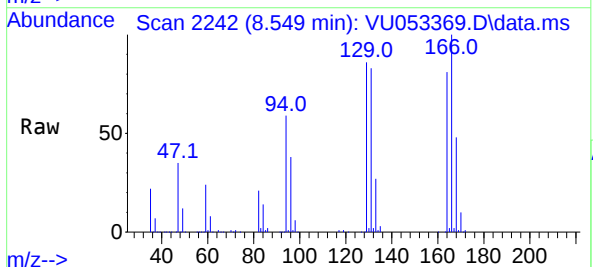
Instrument :
MSVOA_U
ClientSampleId :
E45E4

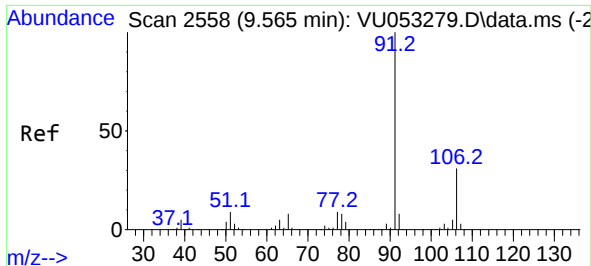
Tgt Ion:164 Resp: 176832
Ion Ratio Lower Upper
164 100
129 106.1 73.6 136.8
131 101.7 70.3 130.7
166 122.9 88.9 165.1



#49
Dibromochloromethane
Concen: 179.565 ug/L
RT: 8.549 min Scan# 2242
Delta R.T. -0.257 min
Lab File: VU053369.D
Acq: 23 Mar 2023 14:14

Tgt Ion:129 Resp: 189432
Ion Ratio Lower Upper
129 100
127 0.0 53.1 98.5#

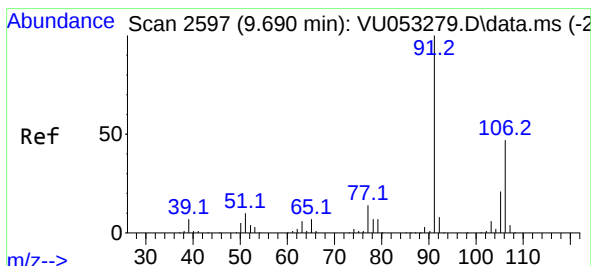
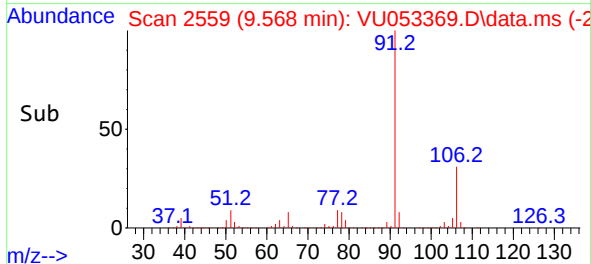
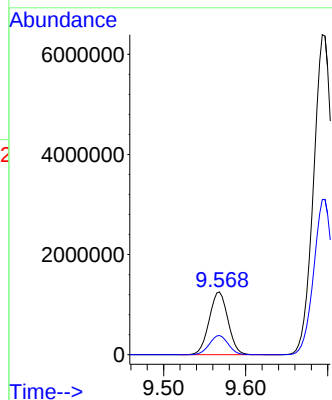
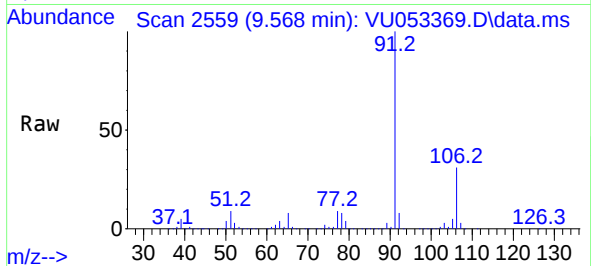




#52
Ethylbenzene
Concen: 403.966 ug/L
RT: 9.568 min Scan# 2559
Delta R.T. 0.003 min
Lab File: VU053369.D
Acq: 23 Mar 2023 14:14

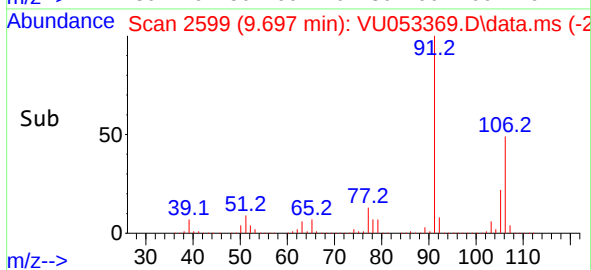
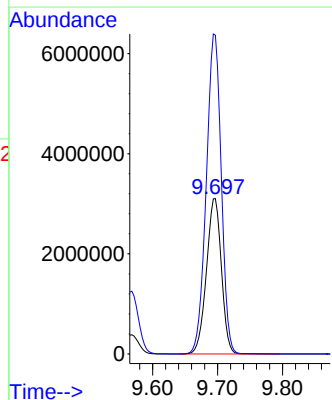
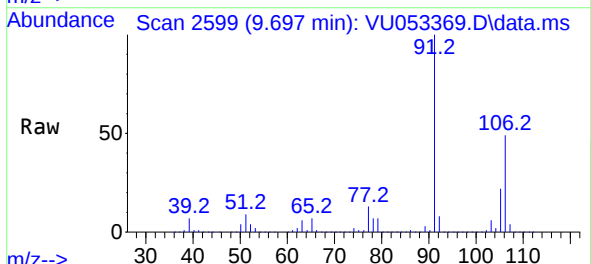
Instrument :
MSVOA_U
ClientSampleId :
E45E4

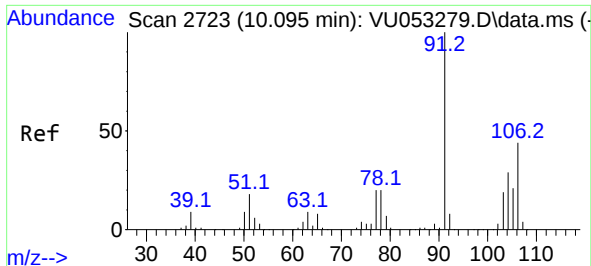
Tgt Ion: 91 Resp: 1999310
Ion Ratio Lower Upper
91 100
106 30.7 21.6 40.0



#53
m,p-Xylene
Concen: 2690.854 ug/L
RT: 9.697 min Scan# 2599
Delta R.T. 0.006 min
Lab File: VU053369.D
Acq: 23 Mar 2023 14:14

Tgt Ion:106 Resp: 4970613
Ion Ratio Lower Upper
106 100
91 205.1 145.3 269.8

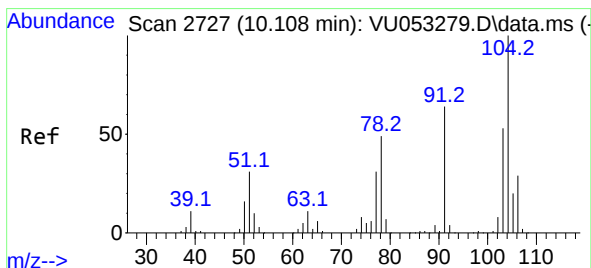
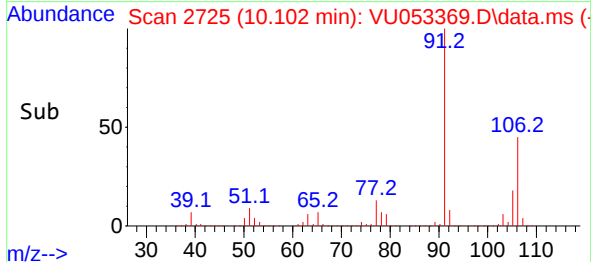
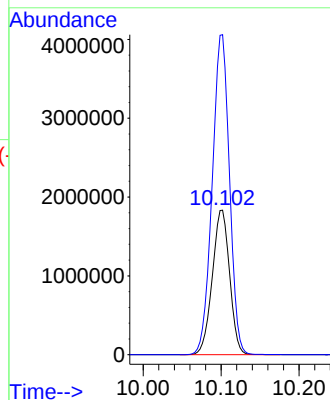
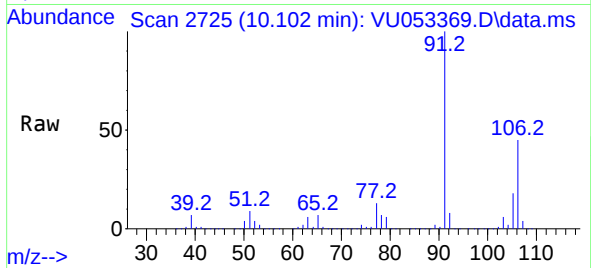




#54
o-Xylene
Concen: 1547.334 ug/L
RT: 10.102 min Scan# 2725
Delta R.T. 0.006 min
Lab File: VU053369.D
Acq: 23 Mar 2023 14:14

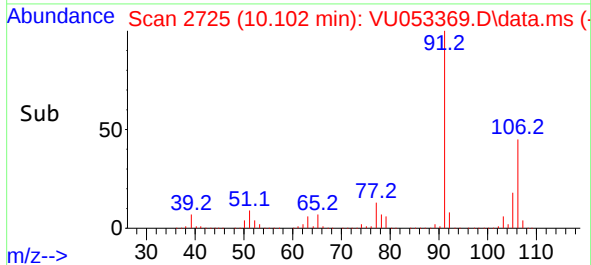
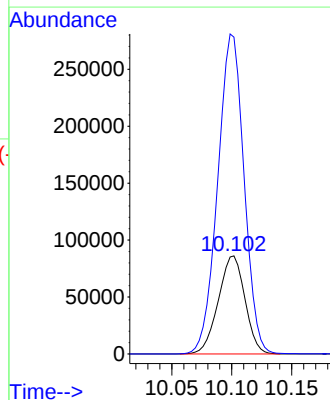
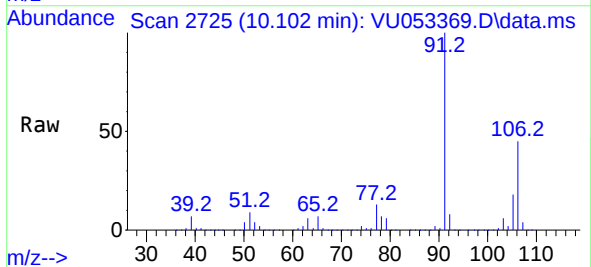
Instrument :
MSVOA_U
ClientSampleId :
E45E4

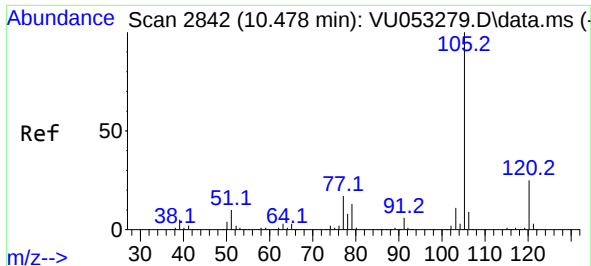
Tgt Ion:106 Resp: 2826953
Ion Ratio Lower Upper
106 100
91 221.4 154.9 287.7



#55
Styrene
Concen: 43.619 ug/L
RT: 10.102 min Scan# 2725
Delta R.T. -0.010 min
Lab File: VU053369.D
Acq: 23 Mar 2023 14:14

Tgt Ion:104 Resp: 132818
Ion Ratio Lower Upper
104 100
78 323.2 32.9 61.1#

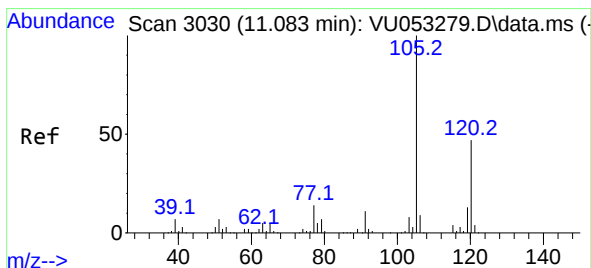
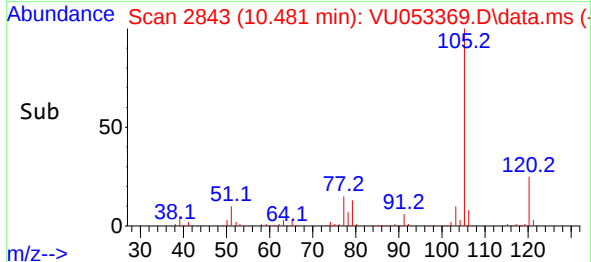
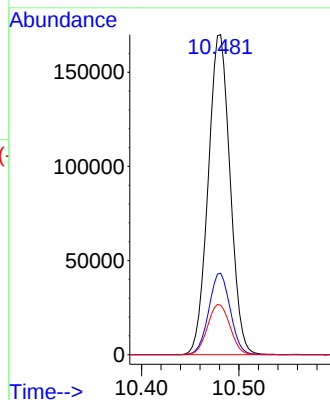
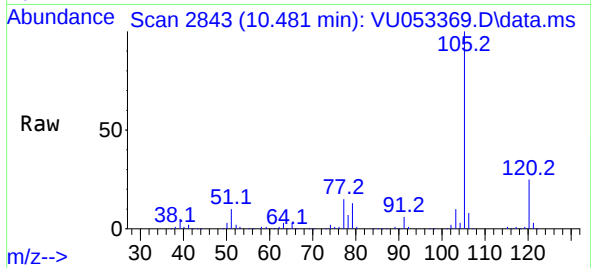




#61
Isopropylbenzene
Concen: 46.968 ug/L
RT: 10.481 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU053369.D
Acq: 23 Mar 2023 14:14

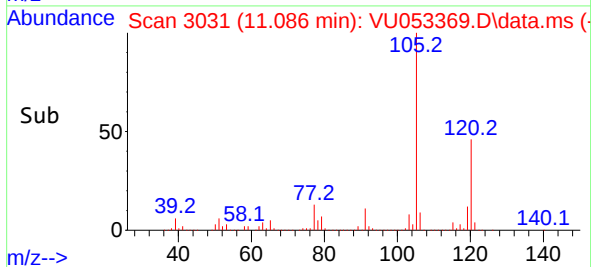
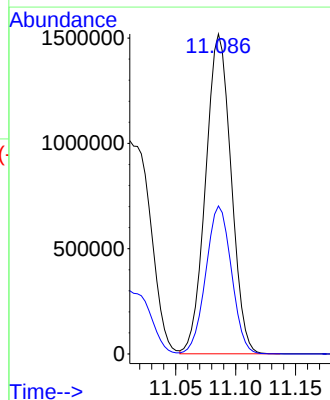
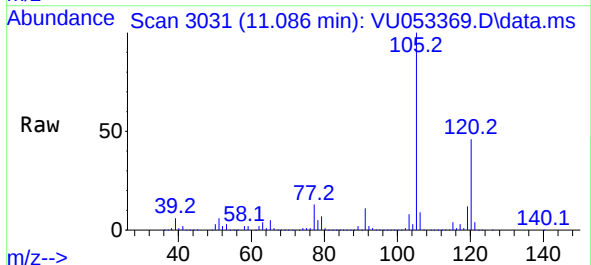
Instrument :
MSVOA_U
ClientSampleId :
E45E4

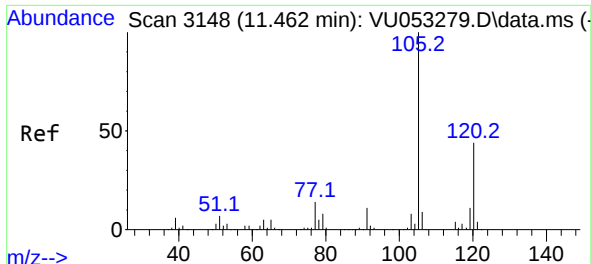
Tgt Ion:105 Resp: 265715
Ion Ratio Lower Upper
105 100
120 25.0 20.4 30.6
77 16.1 13.0 19.4



#62
1,3,5-Trimethylbenzene
Concen: 479.208 ug/L
RT: 11.086 min Scan# 3031
Delta R.T. 0.003 min
Lab File: VU053369.D
Acq: 23 Mar 2023 14:14

Tgt Ion:105 Resp: 2244088
Ion Ratio Lower Upper
105 100
120 46.6 37.0 55.4

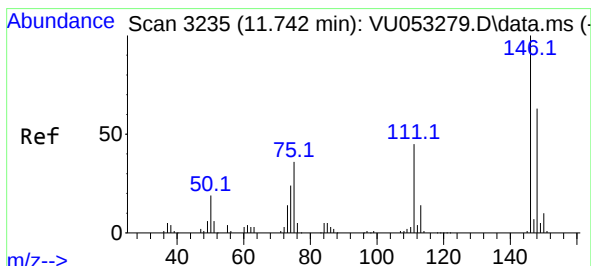
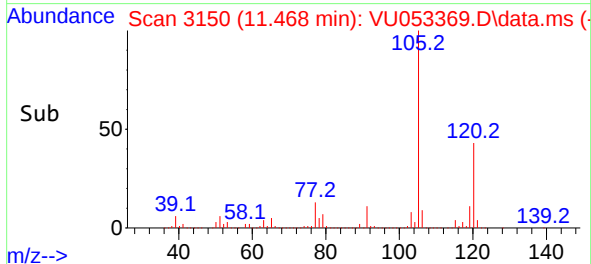
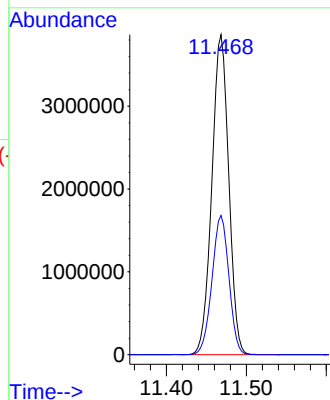
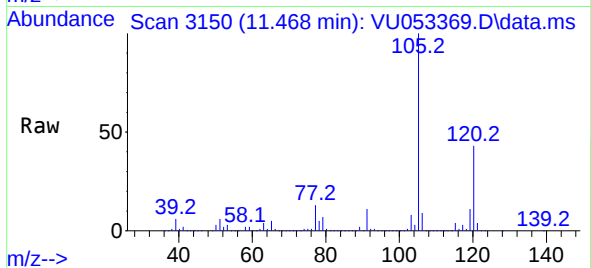




#63
1,2,4-Trimethylbenzene
Concen: 1238.933 ug/L
RT: 11.468 min Scan# 3148
Delta R.T. 0.006 min
Lab File: VU053369.D
Acq: 23 Mar 2023 14:14

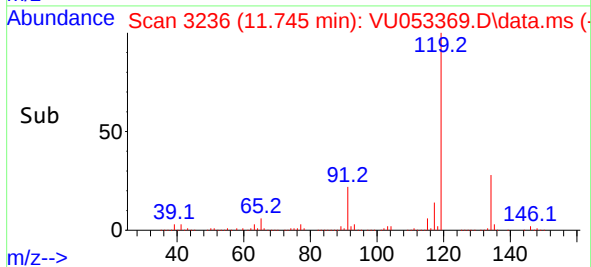
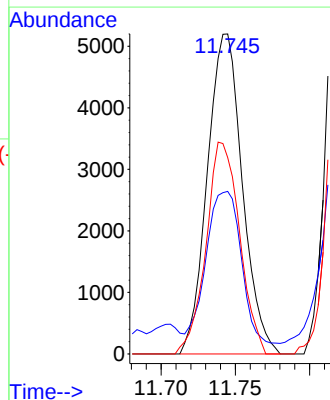
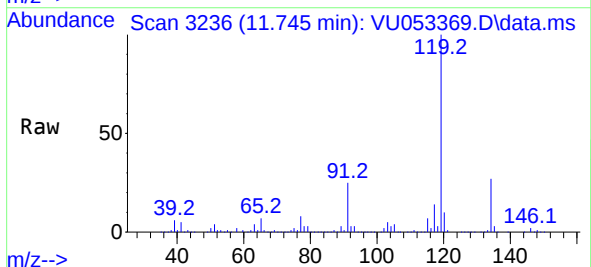
Instrument :
MSVOA_U
ClientSampleId :
E45E4

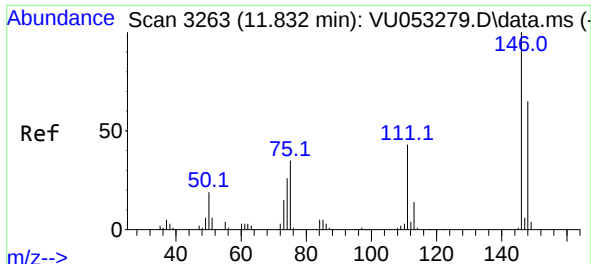
Tgt Ion:105 Resp: 5655234
Ion Ratio Lower Upper
105 100
120 43.6 34.6 52.0



#64
1,3-Dichlorobenzene
Concen: 3.600 ug/L
RT: 11.745 min Scan# 3236
Delta R.T. 0.006 min
Lab File: VU053369.D
Acq: 23 Mar 2023 14:14

Tgt Ion:146 Resp: 8542
Ion Ratio Lower Upper
146 100
111 50.8 30.2 56.0
148 61.4 44.8 83.2

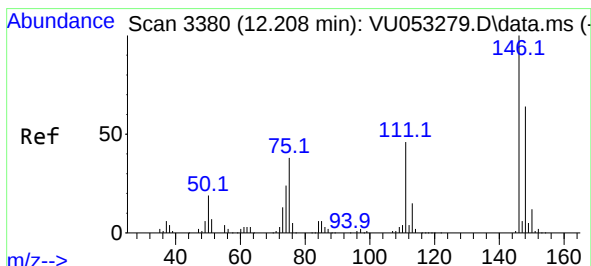
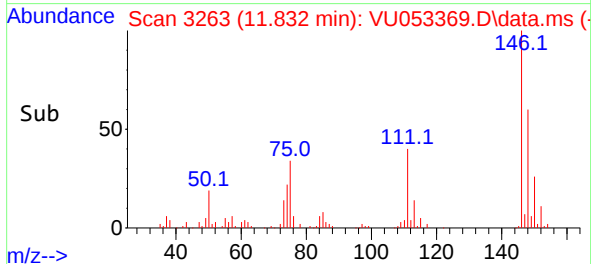
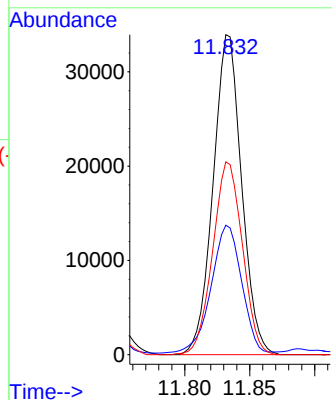
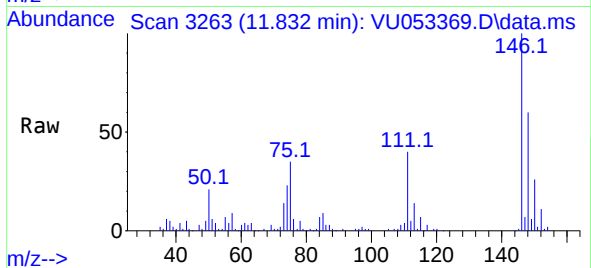




#65
1,4-Dichlorobenzene
Concen: 21.721 ug/L
RT: 11.832 min Scan# 31
Delta R.T. -0.000 min
Lab File: VU053369.D
Acq: 23 Mar 2023 14:14

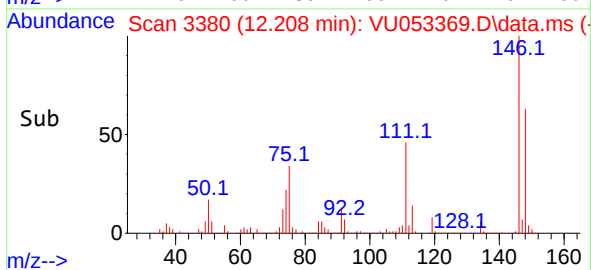
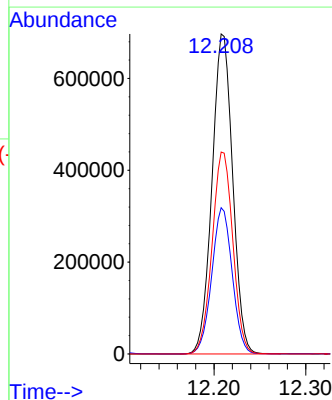
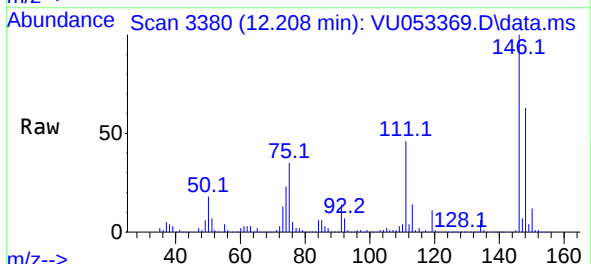
Instrument :
MSVOA_U
ClientSampleId :
E45E4

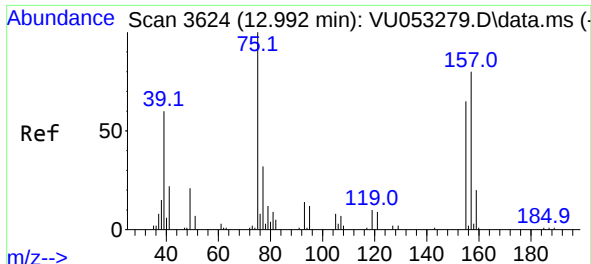
Tgt Ion:146 Resp: 51737
Ion Ratio Lower Upper
146 100
111 40.5 30.7 57.1
148 60.2 45.6 84.8



#67
1,2-Dichlorobenzene
Concen: 459.379 ug/L
RT: 12.208 min Scan# 3380
Delta R.T. -0.000 min
Lab File: VU053369.D
Acq: 23 Mar 2023 14:14

Tgt Ion:146 Resp: 1089387
Ion Ratio Lower Upper
146 100
111 45.7 37.0 55.4
148 63.1 51.4 77.2

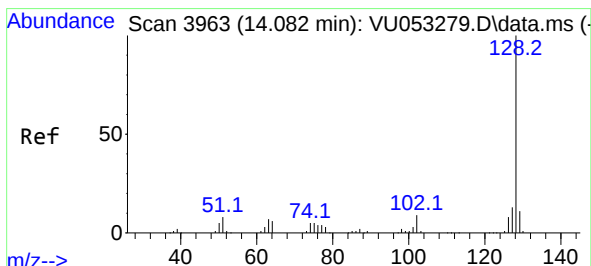
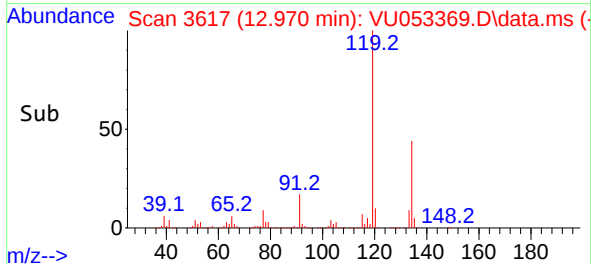
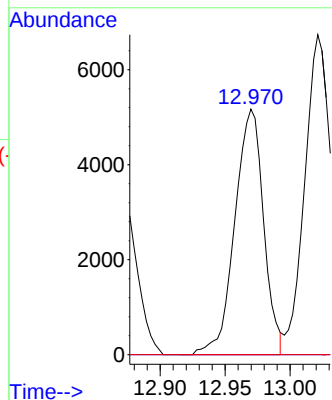
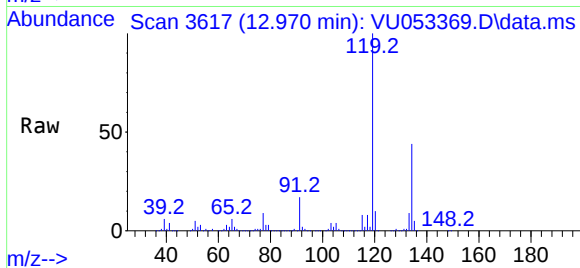




#68
1,2-Dibromo-3-chloropropane
Concen: 20.275 ug/L
RT: 12.970 min Scan# 3617
Delta R.T. -0.023 min
Lab File: VU053369.D
Acq: 23 Mar 2023 14:14

Instrument :
MSVOA_U
ClientSampleId :
E45E4

Tgt Ion: 75 Resp: 7977
Ion Ratio Lower Upper
75 100
155 0.0 60.2 90.4#
157 0.0 73.0 109.4#



#71
Naphthalene
Concen: 387.199 ug/L
RT: 14.082 min Scan# 3963
Delta R.T. -0.000 min
Lab File: VU053369.D
Acq: 23 Mar 2023 14:14

Tgt Ion:128 Resp: 1763968
Ion Ratio Lower Upper
128 100
127 12.8 10.0 15.0
129 10.9 8.6 13.0

