

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\U031723\
 Data File : U053290.D
 Acq On : 18 Mar 2023 00:44
 Operator : JC/MD
 Sample : 01956-05
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 E0288

Quant Time: Mar 18 05:00:35 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM031523WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Mar 18 04:29:10 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.243	114	158856	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.414	117	146643	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.809	152	66350	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	61049	41.656	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	83.320%
7) Chloroethane-d5	1.909	69	50711	42.778	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	85.560%
11) 1,1-Dichloroethene-d2	2.562	63	78031	30.736	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	61.480%
21) 2-Butanone-d5	4.610	46	87013	128.013	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	128.010%
24) Chloroform-d	5.057	84	106038	43.929	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.860%
26) 1,2-Dichloroethane-d4	5.697	65	72473	48.345	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.680%
32) Benzene-d6	5.723	84	226461	47.612	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.220%
36) 1,2-Dichloropropane-d6	6.687	67	76245	49.667	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	99.340%
41) Toluene-d8	7.893	98	203052	45.852	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	91.700%
43) trans-1,3-Dichloroprop...	8.173	79	33786	44.608	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	89.220%
47) 2-Hexanone-d5	8.626	63	74737	155.724	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	155.720%#
56) 1,1,2,2-Tetrachloroeth...	10.751	84	108237	54.428	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	108.860%
66) 1,2-Dichlorobenzene-d4	12.189	152	65297	50.826	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.660%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.604	62	2986	1.787	ug/L #	1
8) Chloroethane	1.935	64	870	0.881	ug/L #	62
13) Acetone	2.620	43	12809	16.546	ug/L	100
14) Carbon disulfide	2.790	76	2588	0.732	ug/L	98
20) cis-1,2-Dichloroethene	4.662	96	2579	1.855	ug/L	94
22) 2-Butanone	4.697	43	12446	14.112	ug/L	98
27) 1,2-Dichloroethane	5.774	62	59525	31.186	ug/L #	78
29) Cyclohexane	5.385	56	257333	117.769	ug/L	99
33) Benzene	5.771	78	5894003	1159.328	ug/L	100
35) Methylcyclohexane	6.758	83	156615	67.401	ug/L	96
37) 1,2-Dichloropropane	6.758	63	1484	1.046	ug/L #	85
40) 4-Methyl-2-pentanone	7.787	43	13996	9.600	ug/L	98
42) Toluene	7.964	91	128970	23.596	ug/L	97
45) 1,1,2-Trichloroethane	8.366	97	5922	4.585	ug/L #	17
51) Chlorobenzene	9.446	112	3128815	918.486	ug/L	98
52) Ethylbenzene	9.565	91	874279	141.054	ug/L	99
53) m,p-Xylene	9.690	106	313872	135.676	ug/L	99
54) o-Xylene	10.095	106	12474	5.452	ug/L	98
55) Styrene	10.111	104	9359	2.454	ug/L	95

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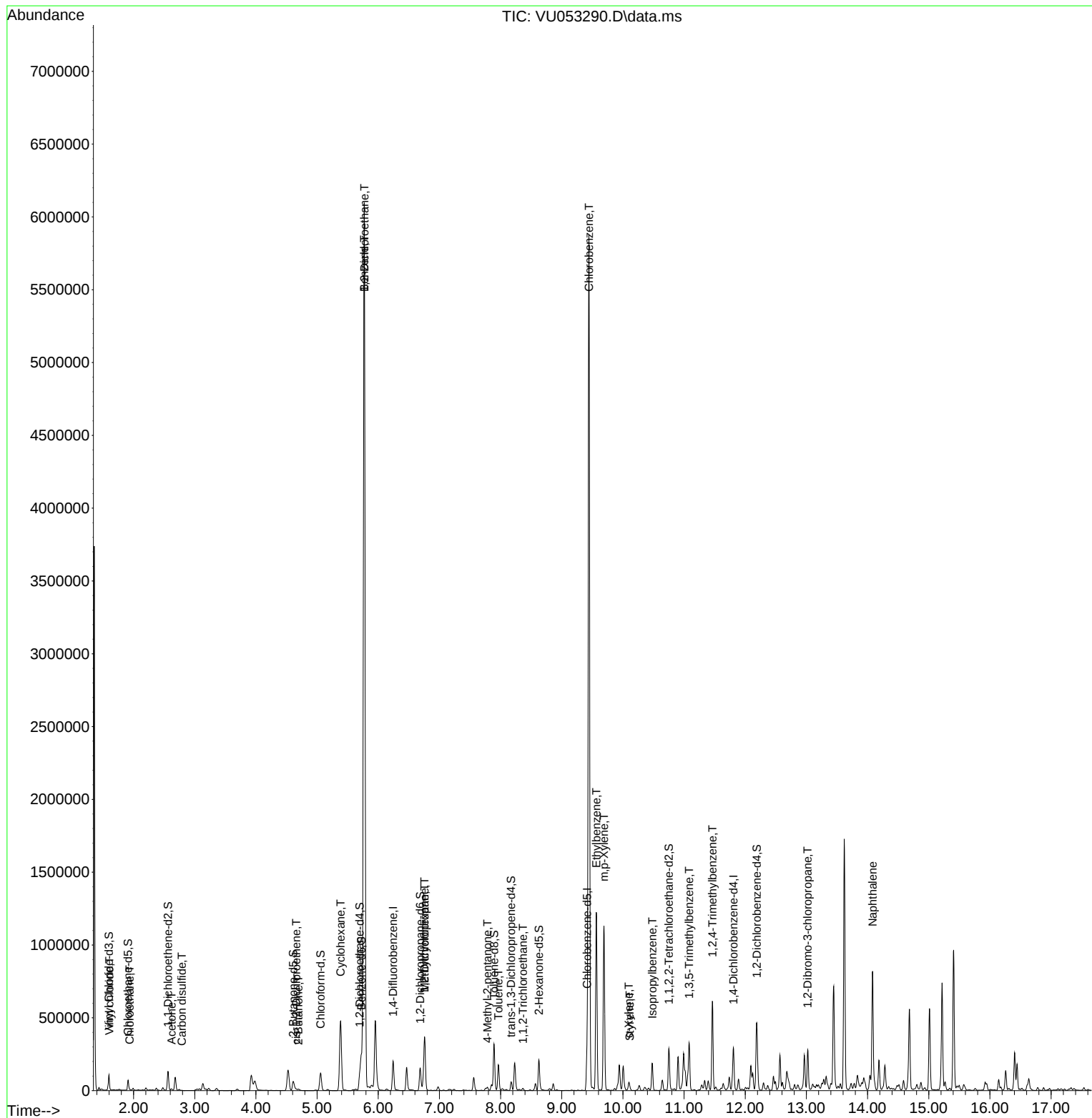
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
61) Isopropylbenzene	10.481	105	120588	23.002	ug/L	100
62) 1,3,5-Trimethylbenzene	11.082	105	170552	39.303	ug/L	99
63) 1,2,4-Trimethylbenzene	11.462	105	332695	78.655	ug/L	100
68) 1,2-Dibromo-3-chloropr...	13.018	75	1640	4.498	ug/L #	7
71) Naphthalene	14.082	128	617165	146.194	ug/L	99

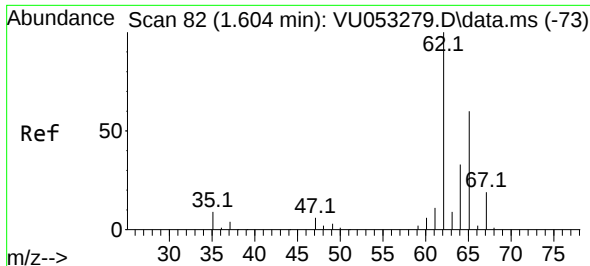
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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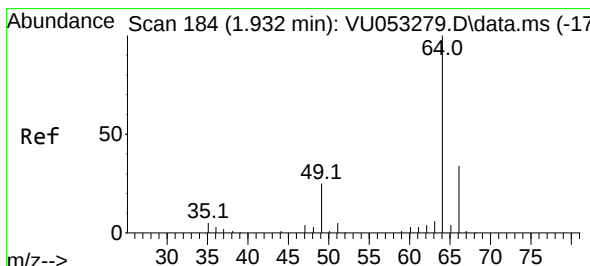
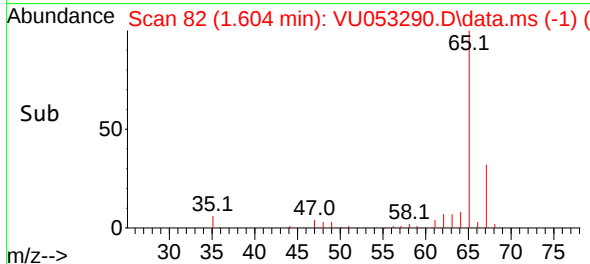
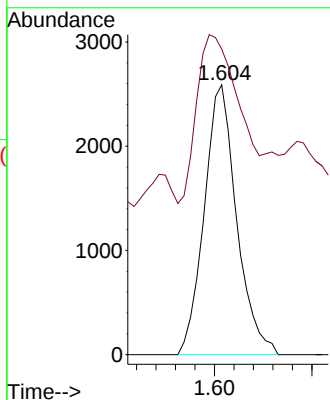
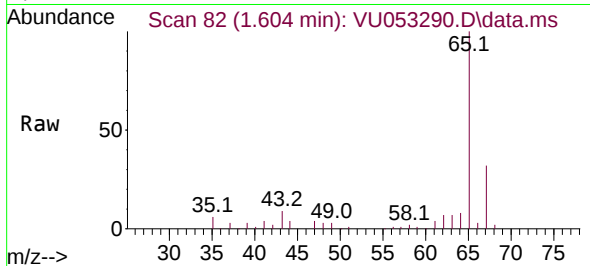




#5
 Vinyl chloride
 Concen: 1.787 ug/L
 RT: 1.604 min Scan# 81
 Delta R.T. -0.000 min
 Lab File: VU053290.D
 Acq: 18 Mar 2023 00:44

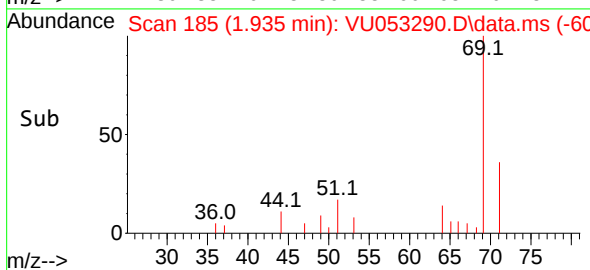
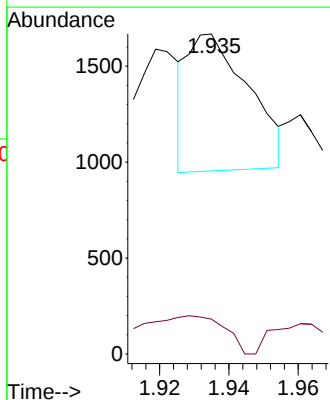
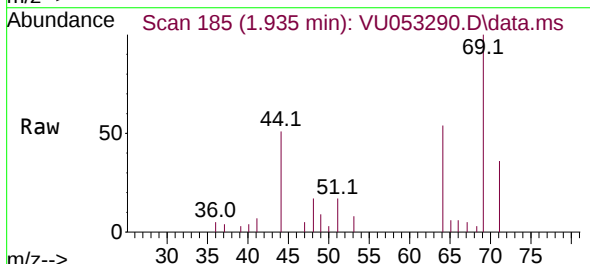
Instrument :
 MSVOA_U
 ClientSampleId :
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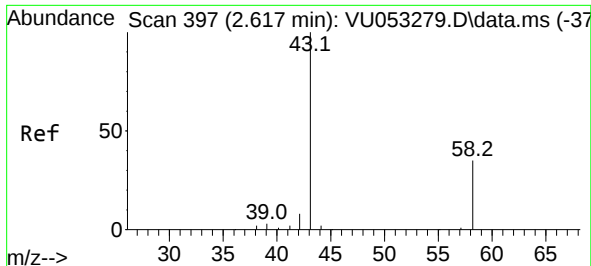
Tgt Ion: 62 Resp: 2986
 Ion Ratio Lower Upper
 62 100
 64 113.2 23.2 43.0#



#8
 Chloroethane
 Concen: 0.881 ug/L
 RT: 1.935 min Scan# 185
 Delta R.T. 0.003 min
 Lab File: VU053290.D
 Acq: 18 Mar 2023 00:44

Tgt Ion: 64 Resp: 870
 Ion Ratio Lower Upper
 64 100
 66 10.9 22.6 42.0#





#13

Acetone

Concen: 16.546 ug/L

RT: 2.620 min Scan# 398

Delta R.T. 0.003 min

Lab File: VU053290.D

Acq: 18 Mar 2023 00:44

Instrument :

MSVOA_U

ClientSampleId :

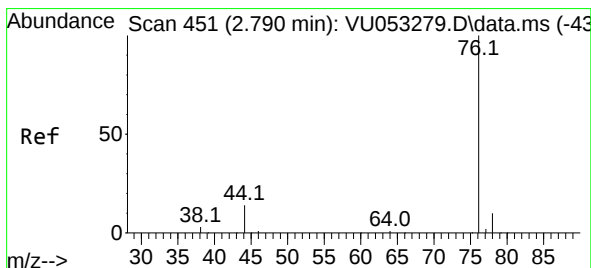
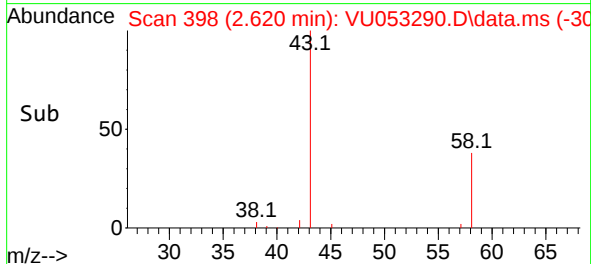
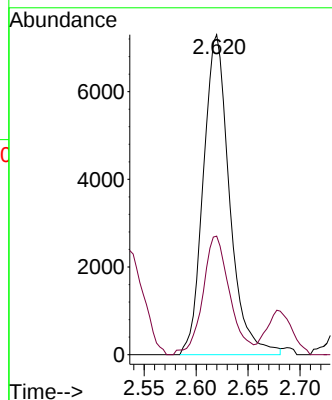
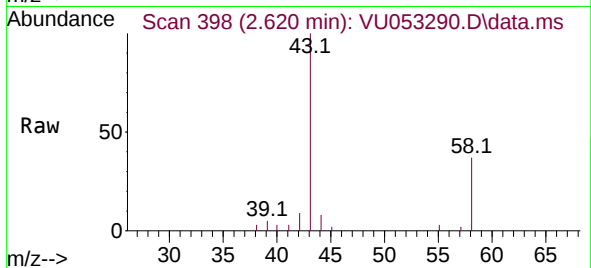
E0288

Tgt Ion: 43 Resp: 12809

Ion Ratio Lower Upper

43 100

58 37.7 0.0 75.0



#14

Carbon disulfide

Concen: 0.732 ug/L

RT: 2.790 min Scan# 451

Delta R.T. -0.000 min

Lab File: VU053290.D

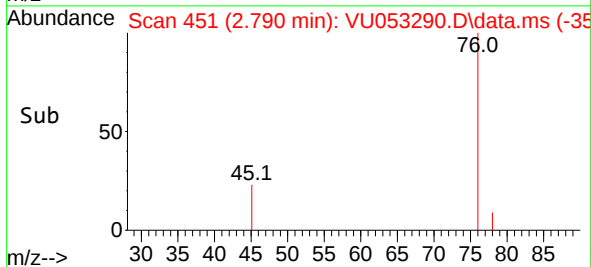
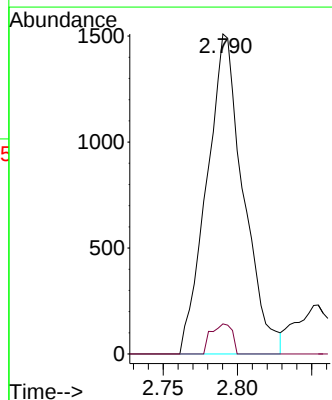
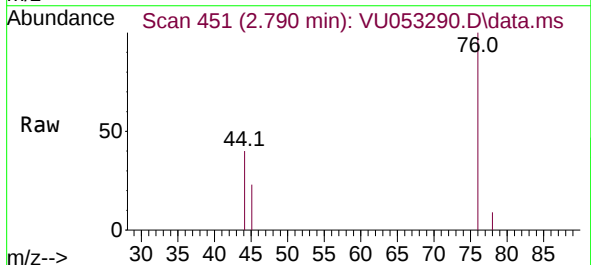
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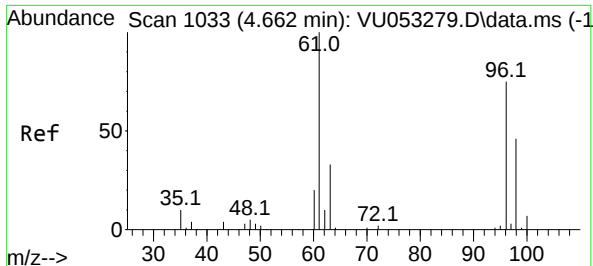
Tgt Ion: 76 Resp: 2588

Ion Ratio Lower Upper

76 100

78 9.4 7.0 10.6

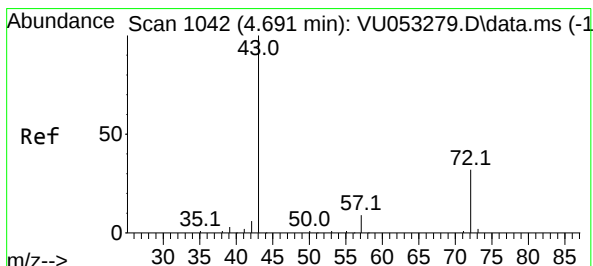
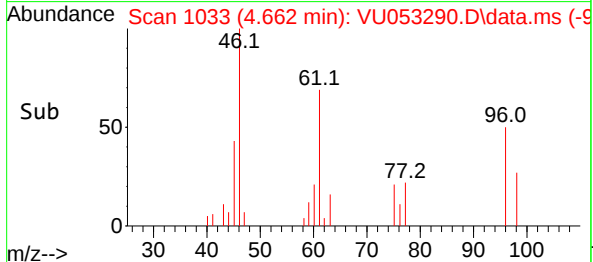
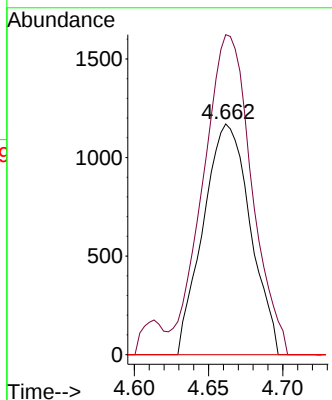
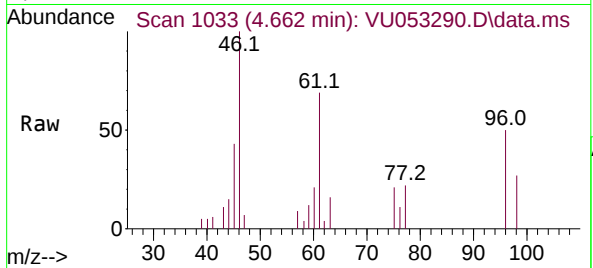




#20
 cis-1,2-Dichloroethene
 Concen: 1.855 ug/L
 RT: 4.662 min Scan# 1033
 Delta R.T. -0.000 min
 Lab File: VU053290.D
 Acq: 18 Mar 2023 00:44

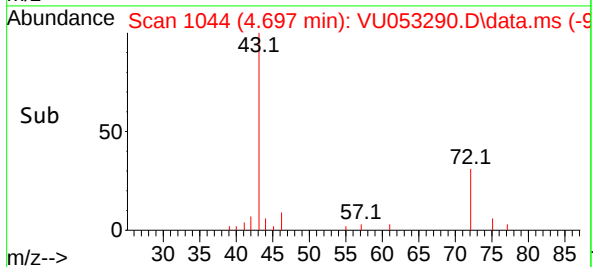
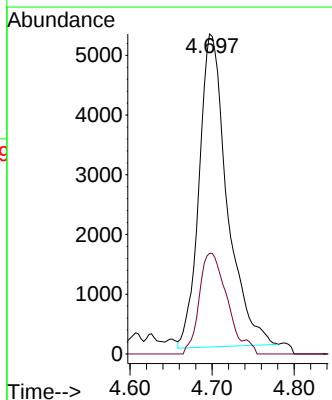
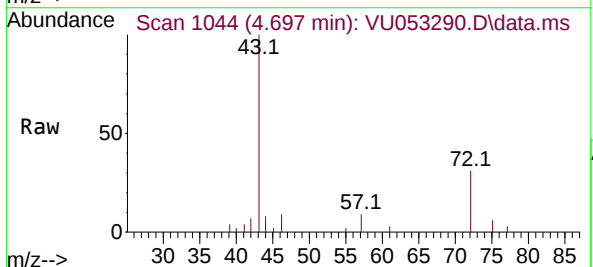
Instrument :
 MSVOA_U
 ClientSampleId :
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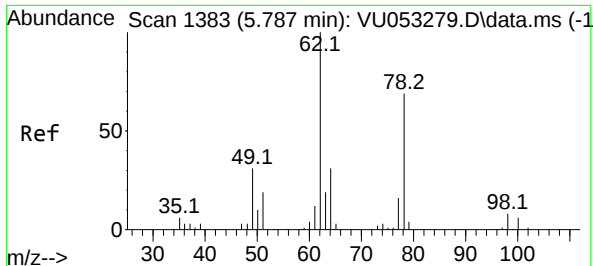
Tgt Ion: 96 Resp: 2579
 Ion Ratio Lower Upper
 96 100
 61 138.7 92.5 171.7
 68 0.0 0.0 0.0



#22
 2-Butanone
 Concen: 14.112 ug/L
 RT: 4.697 min Scan# 1044
 Delta R.T. 0.006 min
 Lab File: VU053290.D
 Acq: 18 Mar 2023 00:44

Tgt Ion: 43 Resp: 12446
 Ion Ratio Lower Upper
 43 100
 72 30.7 16.0 47.9

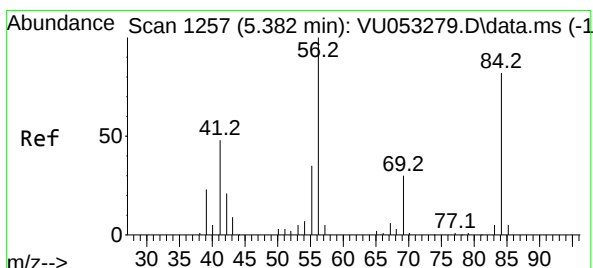
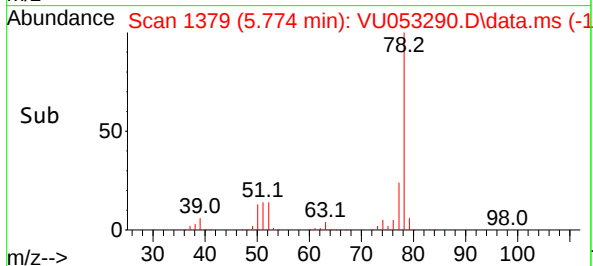
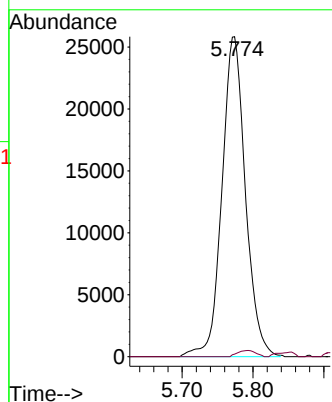
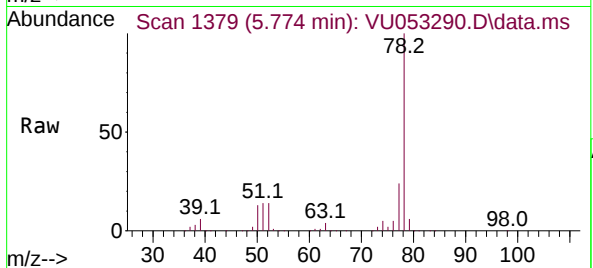




#27
1,2-Dichloroethane
Concen: 31.186 ug/L
RT: 5.774 min Scan# 11
Delta R.T. -0.013 min
Lab File: VU053290.D
Acq: 18 Mar 2023 00:44

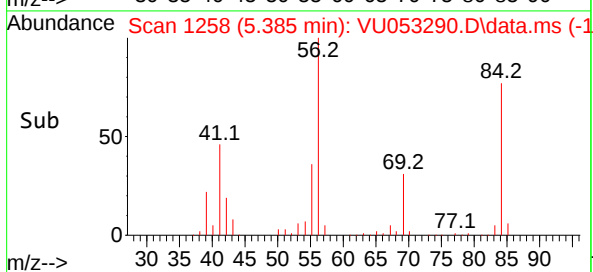
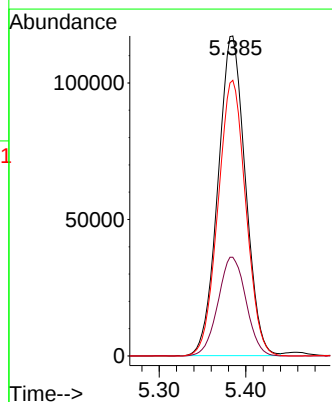
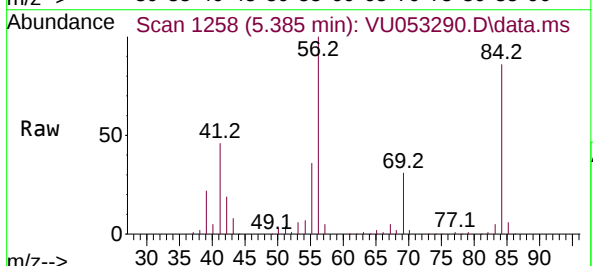
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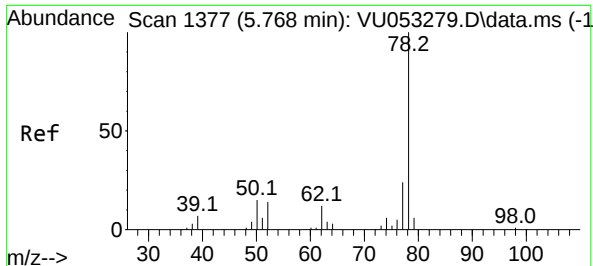
Tgt Ion: 62 Resp: 59525
Ion Ratio Lower Upper
62 100
98 0.8 7.0 10.6#



#29
Cyclohexane
Concen: 117.769 ug/L
RT: 5.385 min Scan# 1258
Delta R.T. 0.003 min
Lab File: VU053290.D
Acq: 18 Mar 2023 00:44

Tgt Ion: 56 Resp: 257333
Ion Ratio Lower Upper
56 100
69 31.6 25.4 38.0
84 87.4 69.0 103.6

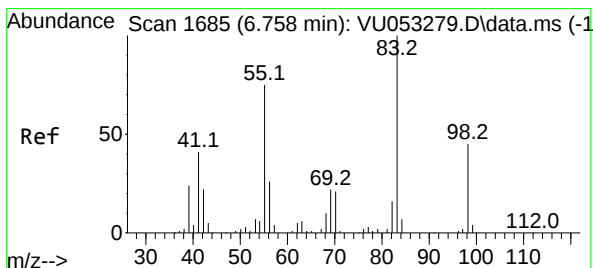
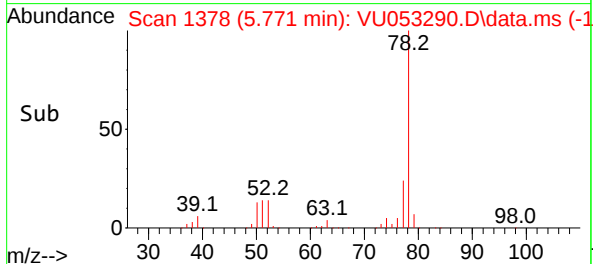
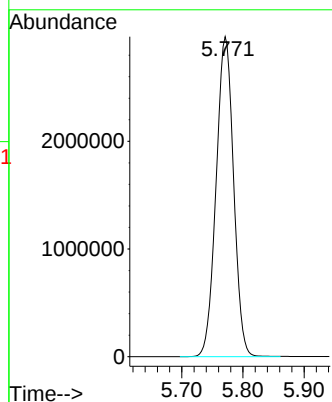
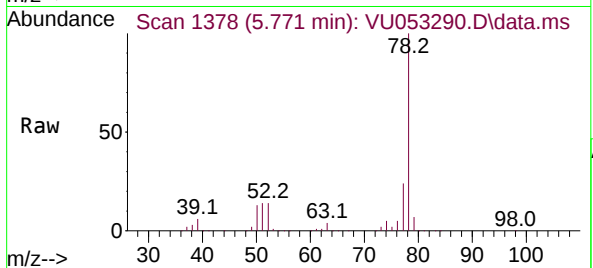




#33
Benzene
Concen: 1159.328 ug/L
RT: 5.771 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU053290.D
Acq: 18 Mar 2023 00:44

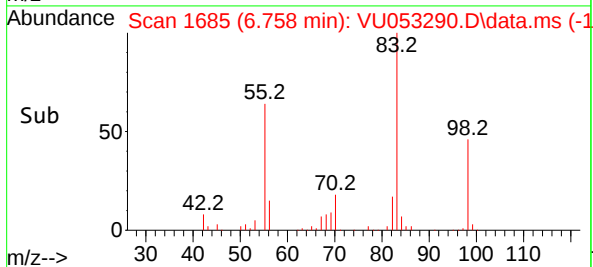
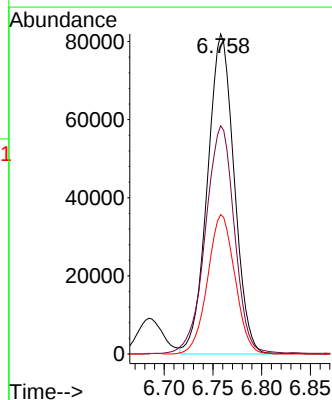
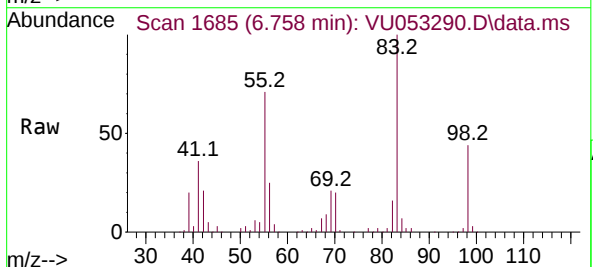
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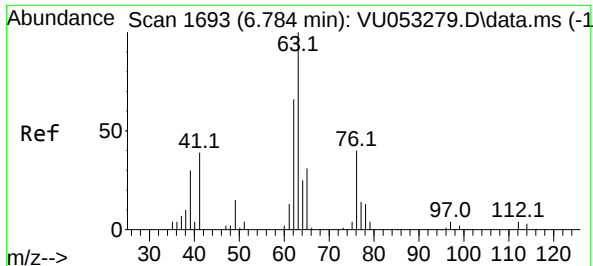
Tgt Ion: 78 Resp: 5894003



#35
Methylcyclohexane
Concen: 67.401 ug/L
RT: 6.758 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VU053290.D
Acq: 18 Mar 2023 00:44

Tgt Ion: 83 Resp: 156615
Ion Ratio Lower Upper
83 100
55 77.6 58.2 87.4
98 44.4 35.4 53.2





#37

1,2-Dichloropropane

Concen: 1.046 ug/L

RT: 6.758 min Scan# 1

Delta R.T. -0.026 min

Lab File: VU053290.D

Acq: 18 Mar 2023 00:44

Instrument :

MSVOA_U

ClientSampleId :

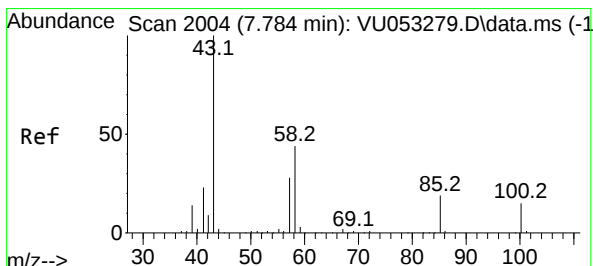
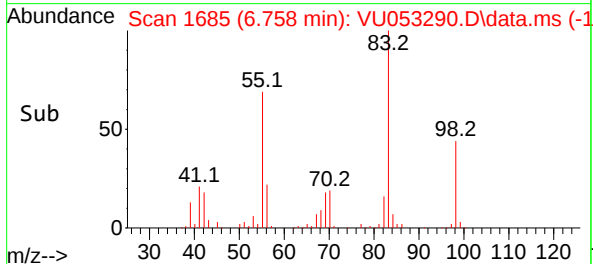
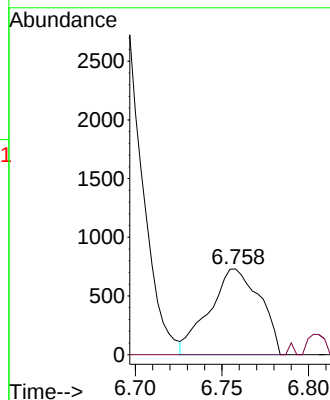
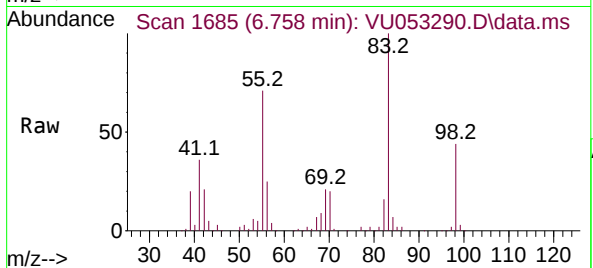
E0288

Tgt Ion: 63 Resp: 1484

Ion Ratio Lower Upper

63 100

112 8.0 2.6 3.8#



#40

4-Methyl-2-pentanone

Concen: 9.600 ug/L

RT: 7.787 min Scan# 2005

Delta R.T. 0.003 min

Lab File: VU053290.D

Acq: 18 Mar 2023 00:44

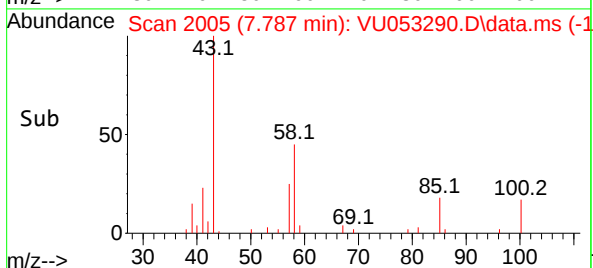
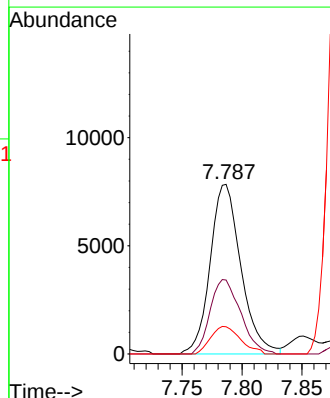
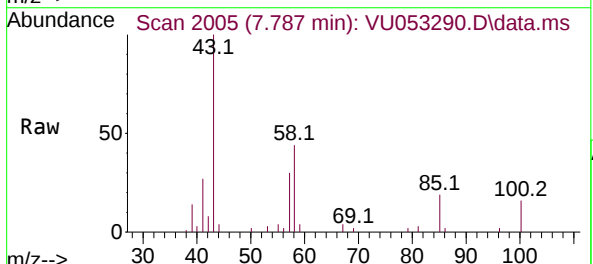
Tgt Ion: 43 Resp: 13996

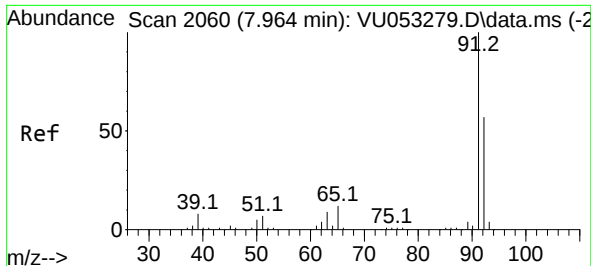
Ion Ratio Lower Upper

43 100

58 43.4 35.8 53.6

100 15.7 13.0 19.6





#42

Toluene

Concen: 23.596 ug/L

RT: 7.964 min Scan# 2060

Delta R.T. -0.000 min

Lab File: VU053290.D

Acq: 18 Mar 2023 00:44

Instrument :

MSVOA_U

ClientSampleId :

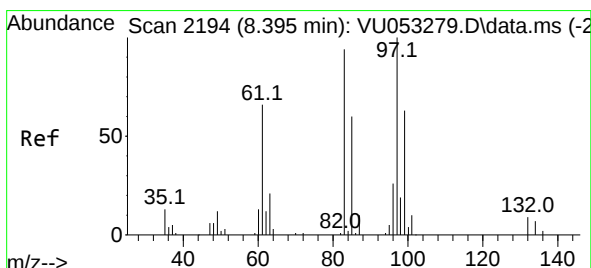
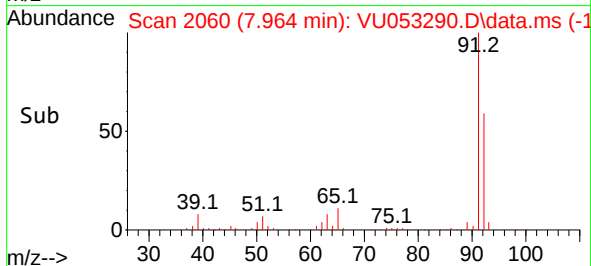
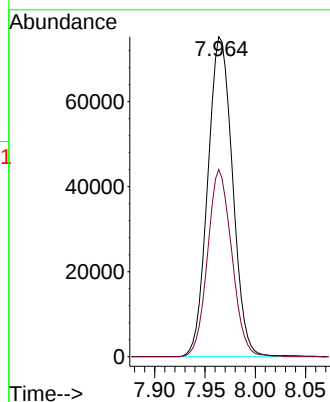
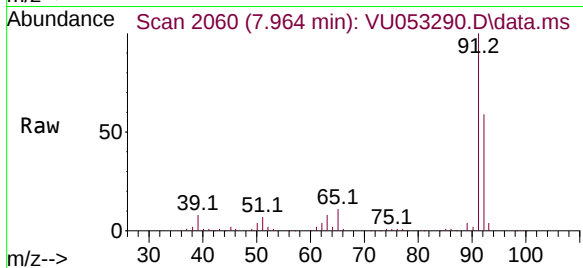
E0288

Tgt Ion: 91 Resp: 128970

Ion Ratio Lower Upper

91 100

92 58.5 39.6 73.6



#45

1,1,2-Trichloroethane

Concen: 4.585 ug/L

RT: 8.366 min Scan# 2185

Delta R.T. -0.029 min

Lab File: VU053290.D

Acq: 18 Mar 2023 00:44

Tgt Ion: 97 Resp: 5922

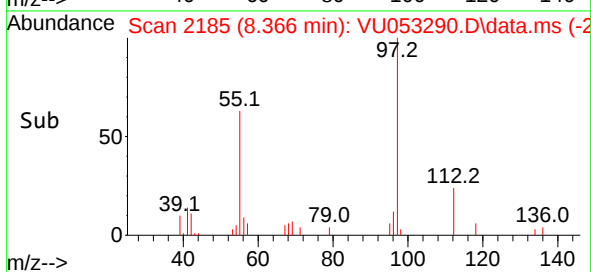
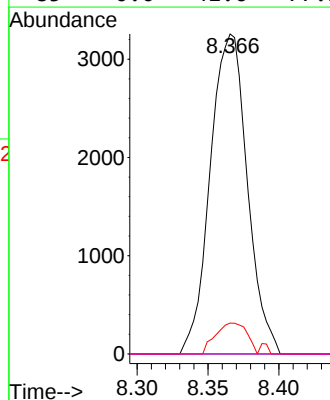
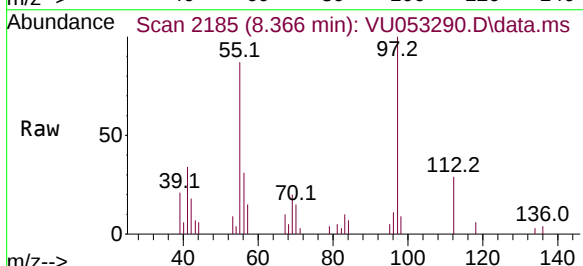
Ion Ratio Lower Upper

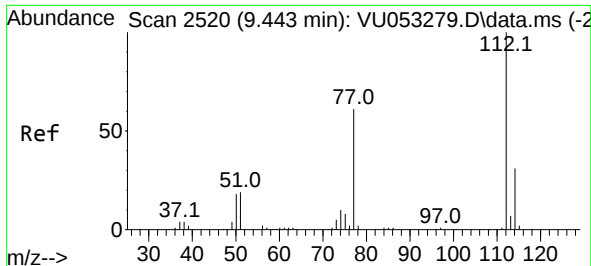
97 100

99 0.0 44.4 82.4#

83 9.6 63.8 118.6#

85 0.0 41.6 77.2#

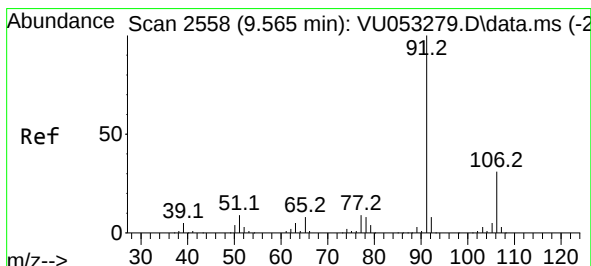
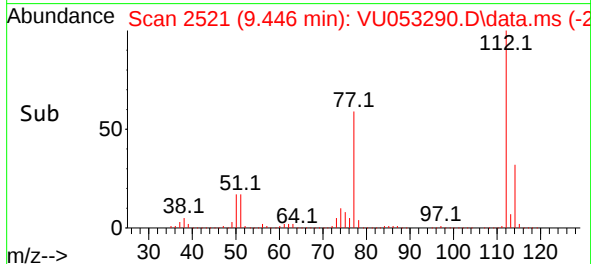
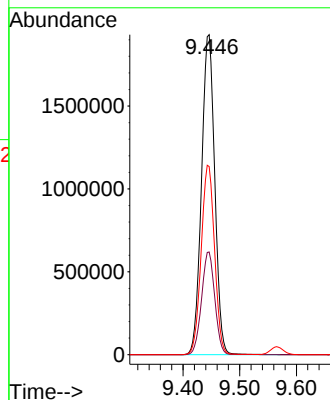
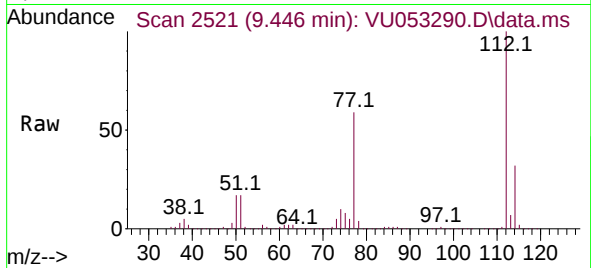




#51
Chlorobenzene
Concen: 918.486 ug/L
RT: 9.446 min Scan# 2520
Delta R.T. 0.003 min
Lab File: VU053290.D
Acq: 18 Mar 2023 00:44

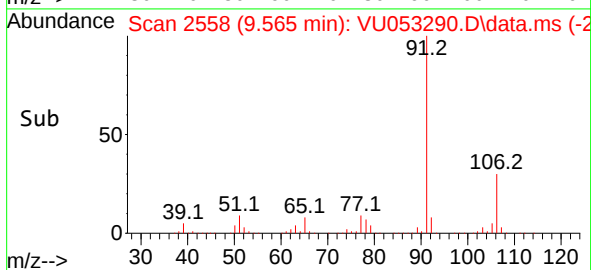
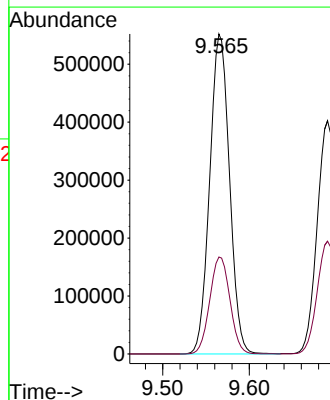
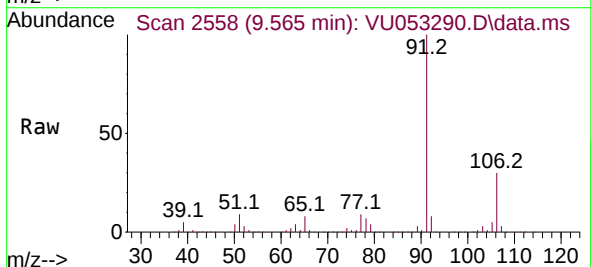
Instrument :
MSVOA_U
ClientSampleId :
E0288

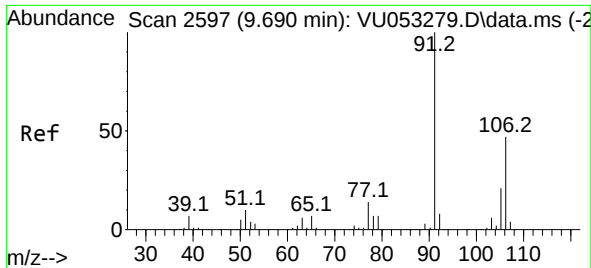
Tgt Ion:112 Resp: 3128815
Ion Ratio Lower Upper
112 100
114 32.1 21.8 40.6
77 58.8 48.8 73.2



#52
Ethylbenzene
Concen: 141.054 ug/L
RT: 9.565 min Scan# 2558
Delta R.T. -0.000 min
Lab File: VU053290.D
Acq: 18 Mar 2023 00:44

Tgt Ion: 91 Resp: 874279
Ion Ratio Lower Upper
91 100
106 30.3 21.6 40.0

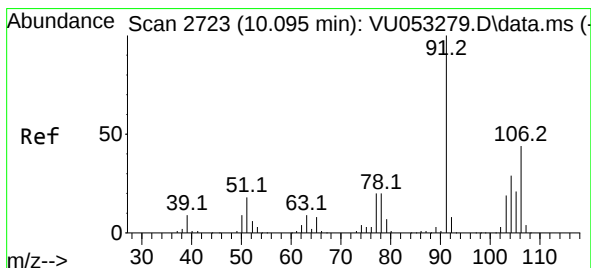
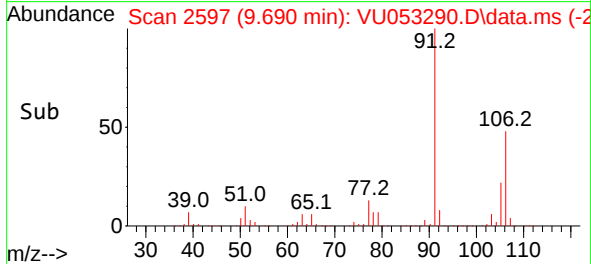
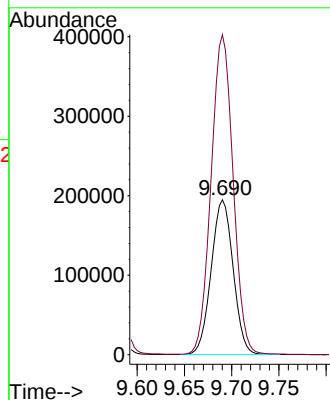
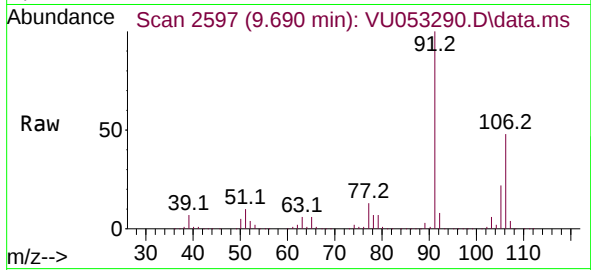




#53
m,p-Xylene
Concen: 135.676 ug/L
RT: 9.690 min Scan# 2597
Delta R.T. -0.000 min
Lab File: VU053290.D
Acq: 18 Mar 2023 00:44

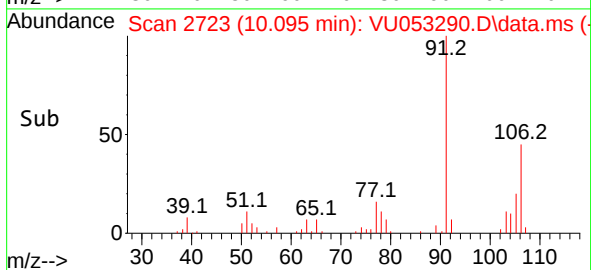
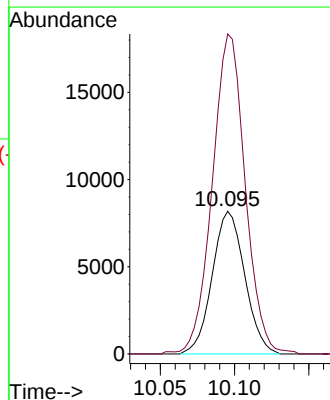
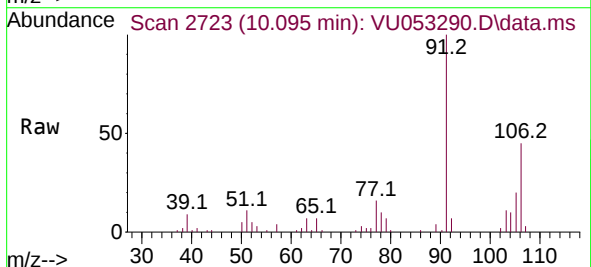
Instrument :
MSVOA_U
ClientSampleId :
E0288

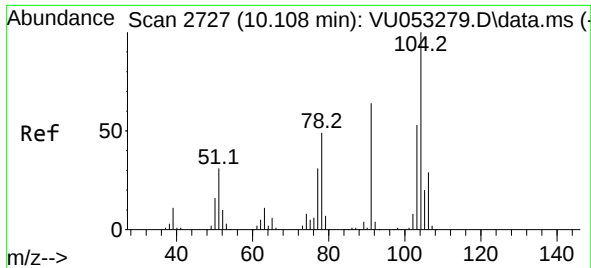
Tgt Ion:106 Resp: 313872
Ion Ratio Lower Upper
106 100
91 206.7 145.3 269.8



#54
o-Xylene
Concen: 5.452 ug/L
RT: 10.095 min Scan# 2723
Delta R.T. -0.000 min
Lab File: VU053290.D
Acq: 18 Mar 2023 00:44

Tgt Ion:106 Resp: 12474
Ion Ratio Lower Upper
106 100
91 224.3 154.9 287.7

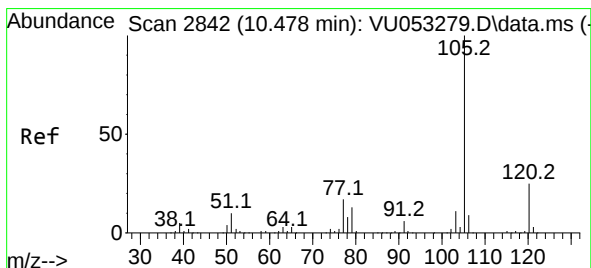
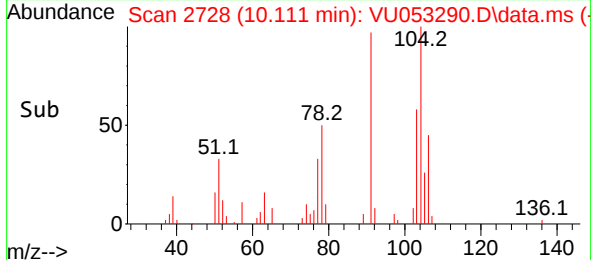
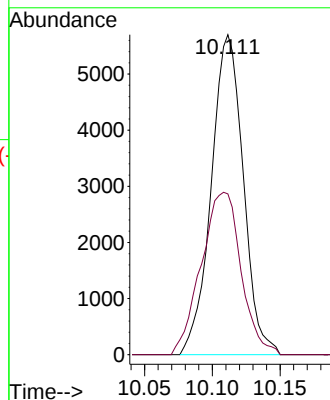
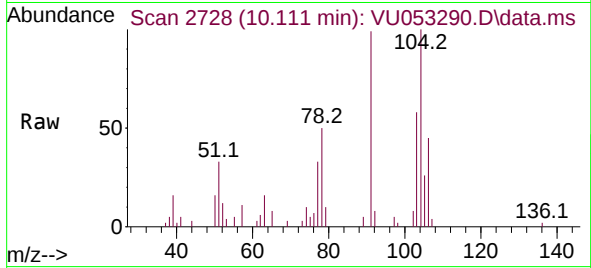




#55
Styrene
Concen: 2.454 ug/L
RT: 10.111 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU053290.D
Acq: 18 Mar 2023 00:44

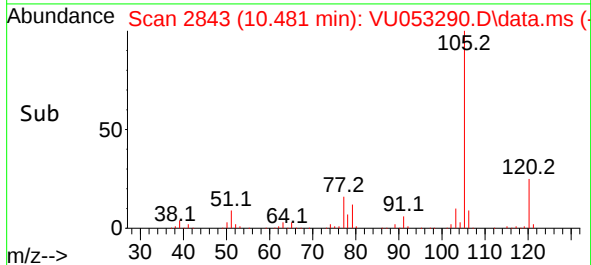
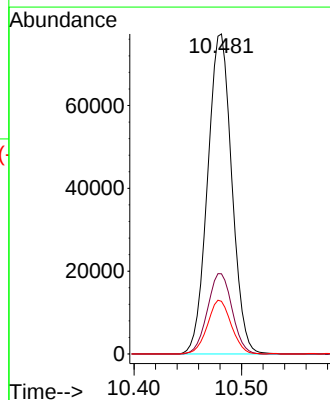
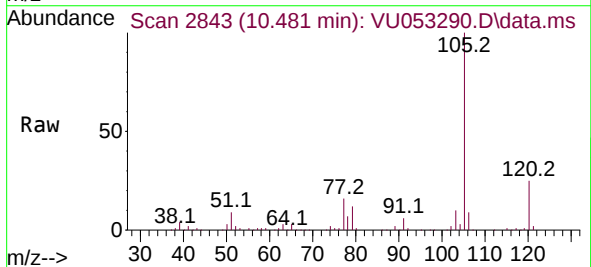
Instrument :
MSVOA_U
ClientSampleId :
E0288

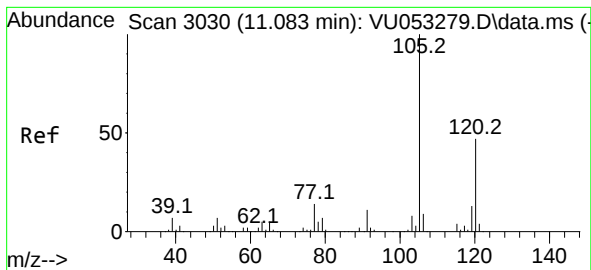
Tgt Ion:104 Resp: 9359
Ion Ratio Lower Upper
104 100
78 50.2 32.9 61.1



#61
Isopropylbenzene
Concen: 23.002 ug/L
RT: 10.481 min Scan# 2843
Delta R.T. 0.003 min
Lab File: VU053290.D
Acq: 18 Mar 2023 00:44

Tgt Ion:105 Resp: 120588
Ion Ratio Lower Upper
105 100
120 25.5 20.4 30.6
77 16.5 13.0 19.4





#62

1,3,5-Trimethylbenzene

Concen: 39.303 ug/L

RT: 11.082 min Scan# 3030

Delta R.T. -0.000 min

Lab File: VU053290.D

Acq: 18 Mar 2023 00:44

Instrument :

MSVOA_U

ClientSampleId :

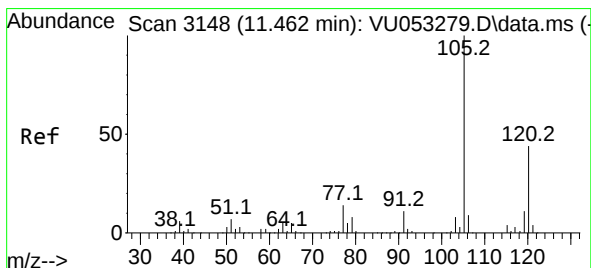
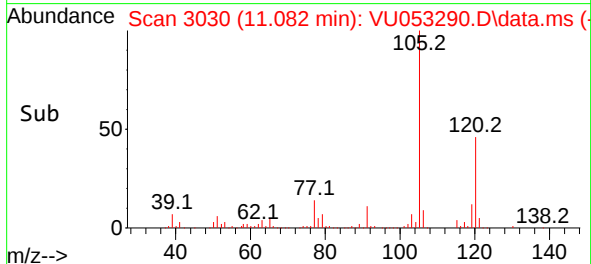
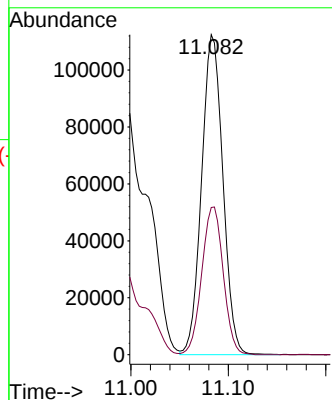
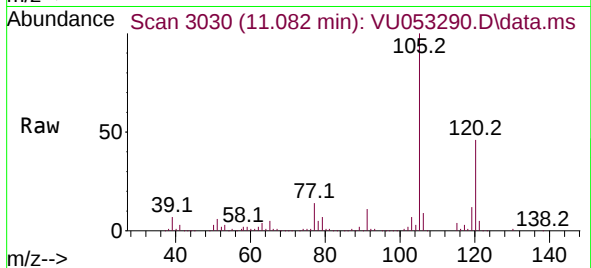
E0288

Tgt Ion:105 Resp: 170552

Ion Ratio Lower Upper

105 100

120 46.6 37.0 55.4



#63

1,2,4-Trimethylbenzene

Concen: 78.655 ug/L

RT: 11.462 min Scan# 3148

Delta R.T. -0.000 min

Lab File: VU053290.D

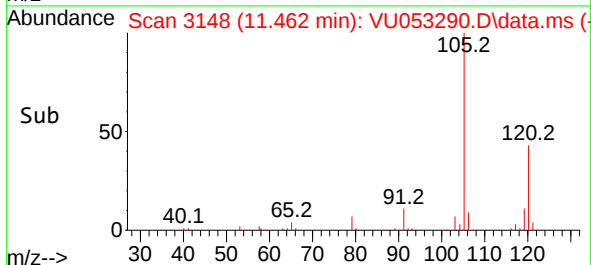
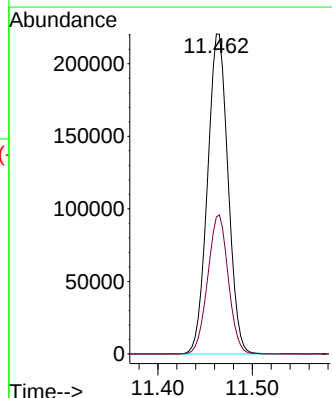
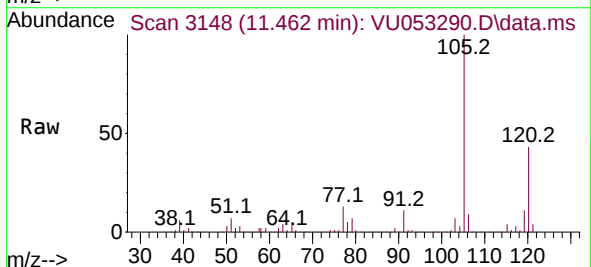
Acq: 18 Mar 2023 00:44

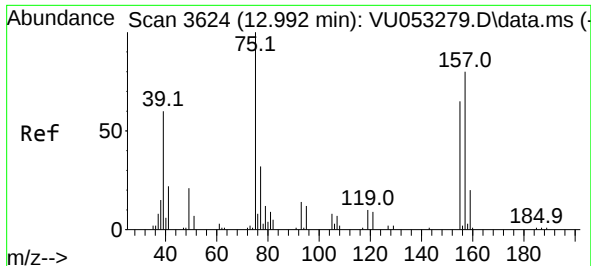
Tgt Ion:105 Resp: 332695

Ion Ratio Lower Upper

105 100

120 43.5 34.6 52.0

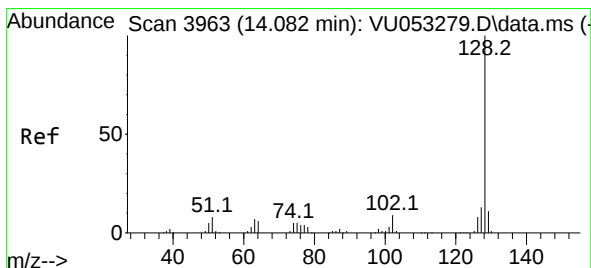
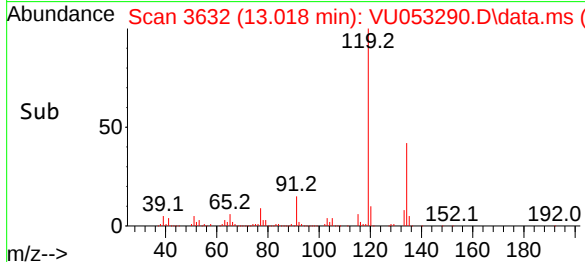
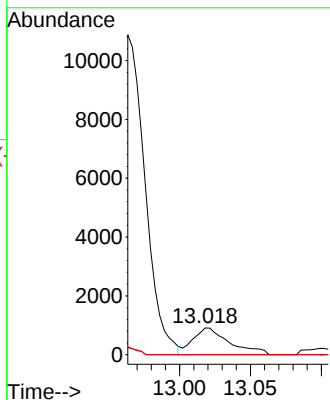
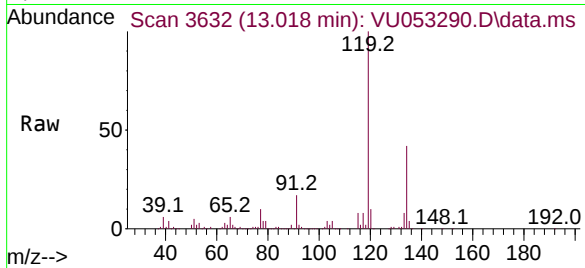




#68
1,2-Dibromo-3-chloropropane
Concen: 4.498 ug/L
RT: 13.018 min Scan# 30
Delta R.T. 0.026 min
Lab File: VU053290.D
Acq: 18 Mar 2023 00:44

Instrument :
MSVOA_U
ClientSampleId :
E0288

Tgt Ion: 75 Resp: 1640
Ion Ratio Lower Upper
75 100
155 0.0 60.2 90.4#
157 0.0 73.0 109.4#



#71
Naphthalene
Concen: 146.194 ug/L
RT: 14.082 min Scan# 3963
Delta R.T. -0.000 min
Lab File: VU053290.D
Acq: 18 Mar 2023 00:44

Tgt Ion: 128 Resp: 617165
Ion Ratio Lower Upper
128 100
127 12.8 10.0 15.0
129 11.1 8.6 13.0

