

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW070323\
 Data File : VW031636.D
 Acq On : 03 Jul 2023 14:46
 Operator : SY/MD
 Sample : 03444-22ME
 Misc : 4.74g/5.0mL/100uL/5.0mL/MSVOA_V/MEOH
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 A46Y3ME

Quant Time: Jul 04 07:08:31 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM061423WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Jul 04 07:06:08 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.539	114	248422	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.793	117	245271	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.194	152	140509	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.278	65	62091	37.555	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	75.120%
7) Chloroethane-d5	1.503	69	27217	18.867	ug/L	-0.03
Spiked Amount	50.000	Range	70 - 130	Recovery	=	37.740%#
11) 1,1-Dichloroethene-d2	2.034	65	31962	37.510	ug/L	-0.03
Spiked Amount	50.000	Range	60 - 125	Recovery	=	75.020%
21) 2-Butanone-d5	3.806	46	119013	88.899	ug/L	0.02
Spiked Amount	100.000	Range	40 - 130	Recovery	=	88.900%
24) Chloroform-d	4.253	84	147258	35.564	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	71.120%
26) 1,2-Dichloroethane-d4	4.947	65	97806	37.753	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	75.500%
32) Benzene-d6	4.960	84	243654	35.293	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	70.580%
36) 1,2-Dichloropropane-d6	5.992	67	93020	38.015	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	76.020%
41) Toluene-d8	7.249	98	201798	31.853	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	63.700%#
43) trans-1,3-Dichloroprop...	7.561	79	41882	35.110	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	70.220%
47) 2-Hexanone-d5	8.043	63	78472	81.223	ug/L	0.01
Spiked Amount	100.000	Range	45 - 130	Recovery	=	81.220%
56) 1,1,2,2-Tetrachloroeth...	10.165	84	142108	38.476	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	76.960%
66) 1,2-Dichlorobenzene-d4	11.571	152	112372	41.956	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	83.920%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.282	62	49763	20.189	ug/L	99
9) Trichlorofluoromethane	2.044	101	11215	2.735	ug/L	96
10) 1,1,2-Trichloro-1,2,2-...	2.044	101	11215	5.103	ug/L	91
12) 1,1-Dichloroethene	2.047	96	2017	1.097	ug/L #	1
15) Methyl Acetate	2.394	43	16020	7.203	ug/L	98
17) trans-1,2-Dichloroethene	2.687	96	1524	0.794	ug/L	84
19) 1,1-Dichloroethane	3.108	63	18352	4.432	ug/L	96
20) cis-1,2-Dichloroethene	3.815	96	82931	39.995	ug/L	97
27) 1,2-Dichloroethane	5.060	62	3092	0.931	ug/L #	77
30) 1,1,1-Trichloroethane	4.510	97	60988	15.509	ug/L	98
31) Carbon tetrachloride	4.513	117	6699	1.923	ug/L	85
34) Trichloroethene	5.841	95	7671	3.515	ug/L	90
35) Methylcyclohexane	5.992	83	22446	6.981	ug/L #	15
42) Toluene	7.323	91	100965	11.925	ug/L	97
46) Tetrachloroethene	7.912	164	17742	10.360	ug/L	95
51) Chlorobenzene	8.825	112	7632	1.361	ug/L	100
52) Ethylbenzene	8.953	91	70724	7.486	ug/L	99
53) m,p-Xylene	9.082	106	32233	9.316	ug/L	94
54) o-Xylene	9.493	106	6160	1.876	ug/L	85

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QLast Update : Tue Jul 04 07:06:08 2023
Response via : Initial Calibration

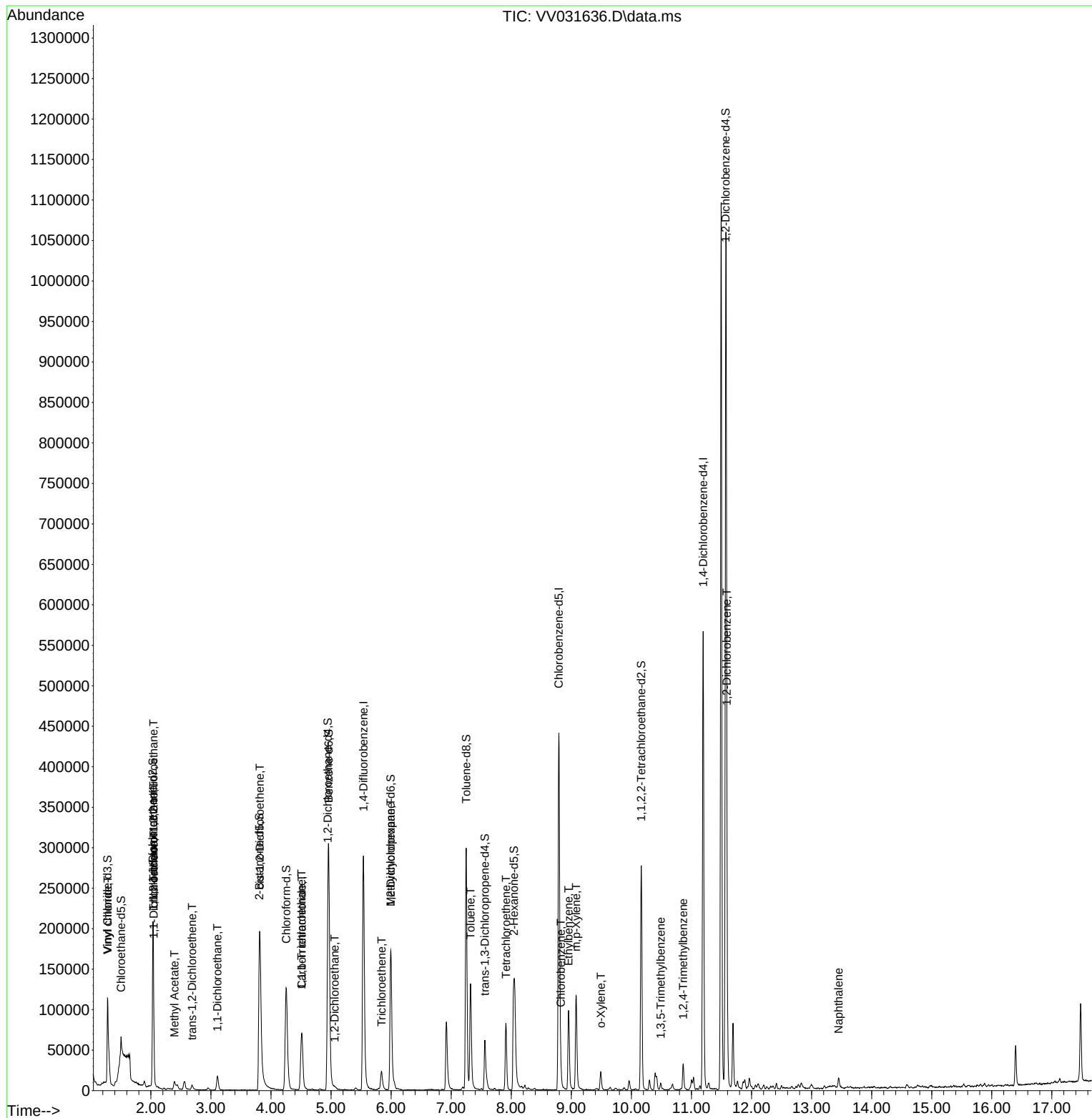
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
62) 1,3,5-Trimethylbenzene	10.487	105	4369	0.590	ug/L	95
63) 1,2,4-Trimethylbenzene	10.863	105	16061	2.328	ug/L	94
67) 1,2-Dichlorobenzene	11.590	146	20201	4.457	ug/L	95
71) Naphthalene	13.452	128	9761	1.285	ug/L	96

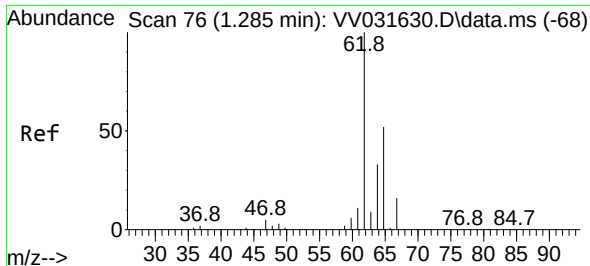
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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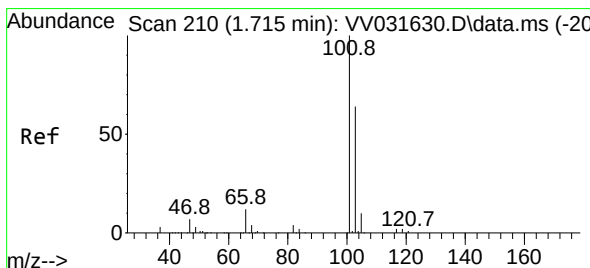
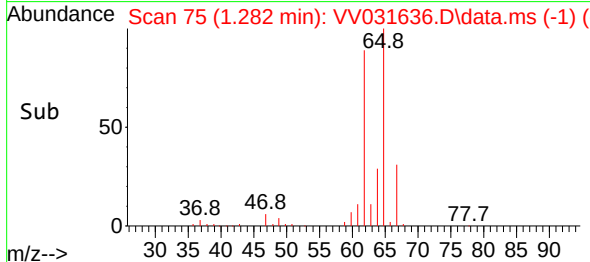
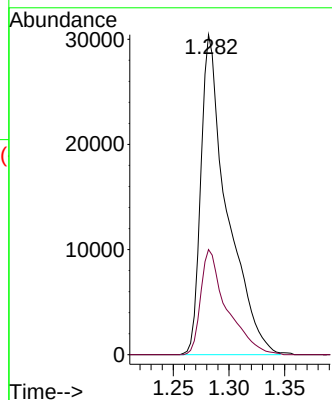
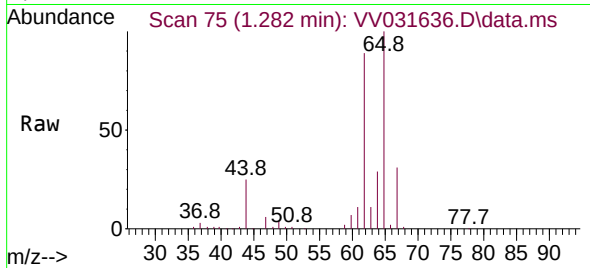




#5
 Vinyl chloride
 Concen: 20.189 ug/L
 RT: 1.282 min Scan# 71
 Delta R.T. -0.003 min
 Lab File: VV031636.D
 Acq: 03 Jul 2023 14:46

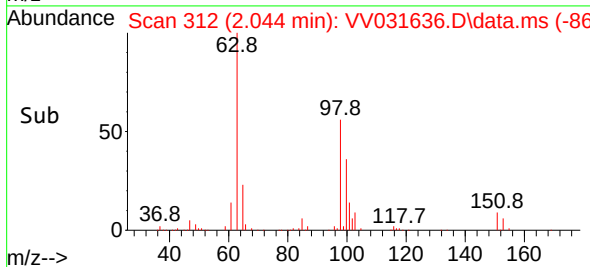
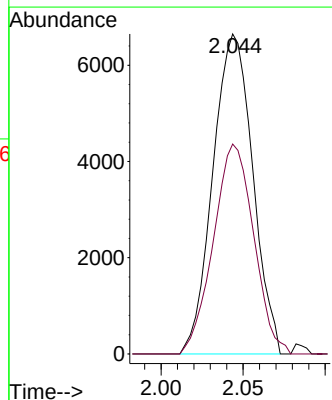
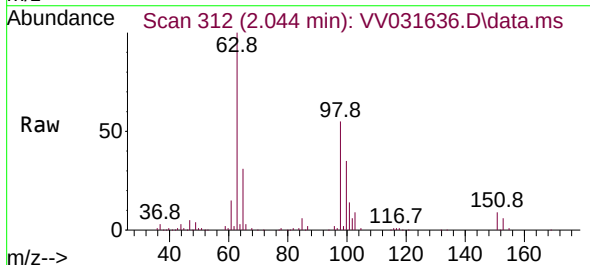
Instrument :
 MSVOA_V
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 A46Y3ME

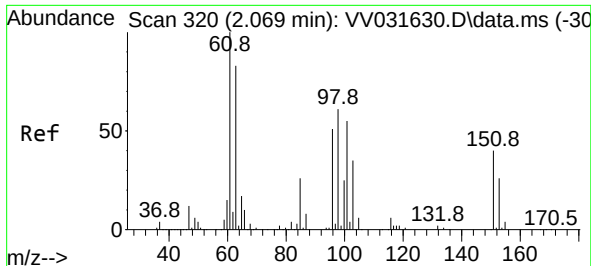
Tgt Ion: 62 Resp: 49763
 Ion Ratio Lower Upper
 62 100
 64 32.8 23.4 43.4



#9
 Trichlorofluoromethane
 Concen: 2.735 ug/L
 RT: 2.044 min Scan# 312
 Delta R.T. 0.328 min
 Lab File: VV031636.D
 Acq: 03 Jul 2023 14:46

Tgt Ion: 101 Resp: 11215
 Ion Ratio Lower Upper
 101 100
 103 66.4 50.9 76.3

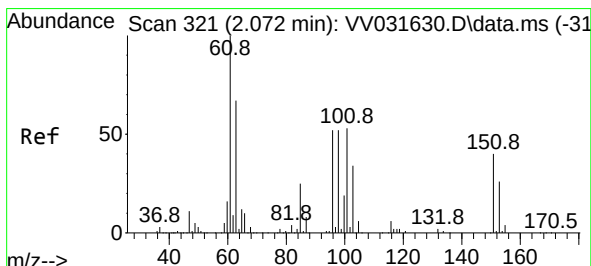
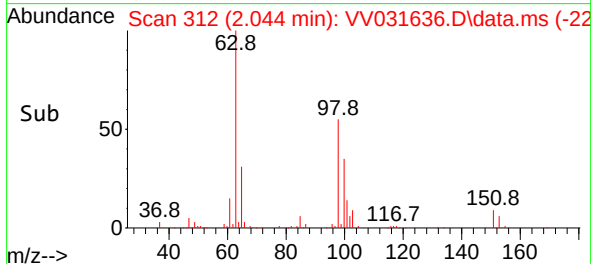
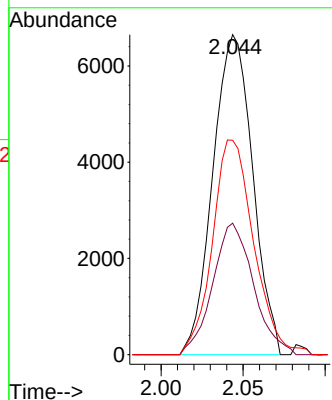
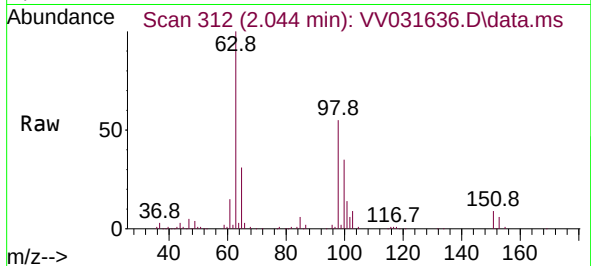




#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 5.103 ug/L
 RT: 2.044 min Scan# 312
 Delta R.T. -0.026 min
 Lab File: VV031636.D
 Acq: 03 Jul 2023 14:46

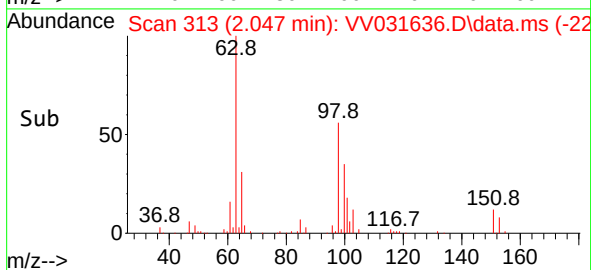
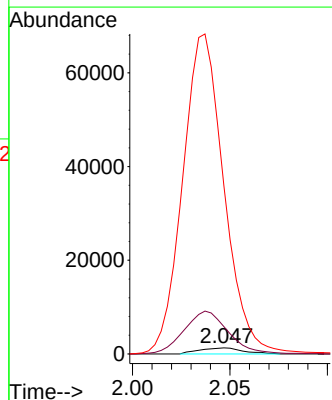
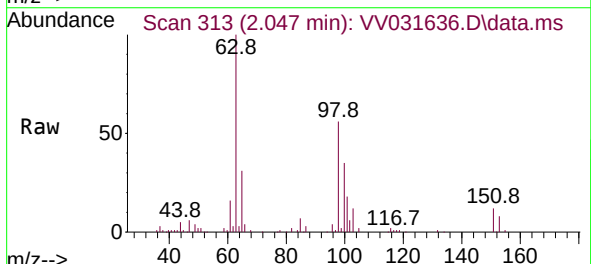
Instrument :
 MSVOA_V
 ClientSampleId :
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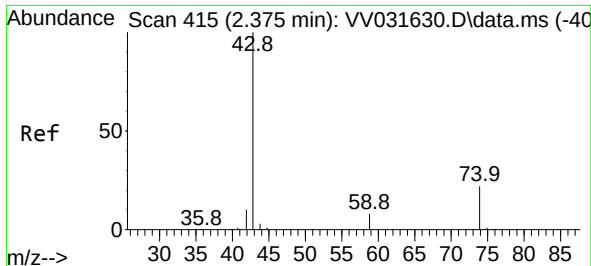
Tgt Ion:101 Resp: 11215
 Ion Ratio Lower Upper
 101 100
 85 42.1 37.4 56.0
 151 69.6 62.3 93.5



#12
 1,1-Dichloroethene
 Concen: 1.097 ug/L
 RT: 2.047 min Scan# 313
 Delta R.T. -0.026 min
 Lab File: VV031636.D
 Acq: 03 Jul 2023 14:46

Tgt Ion: 96 Resp: 2017
 Ion Ratio Lower Upper
 96 100
 61 448.9 128.9 239.5#
 63 2766.4 95.3 177.1#

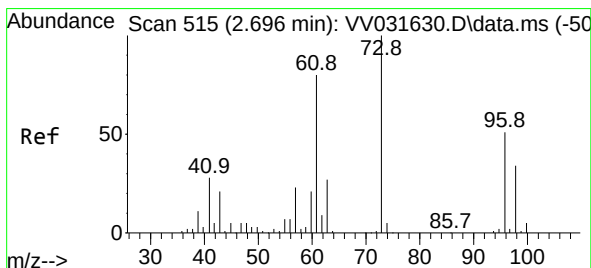
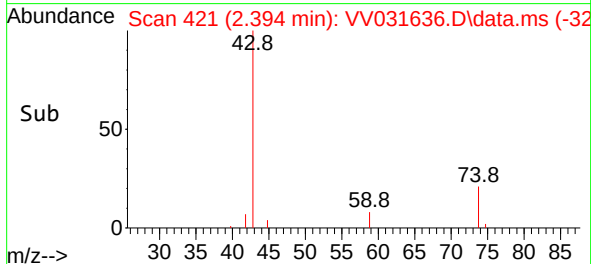
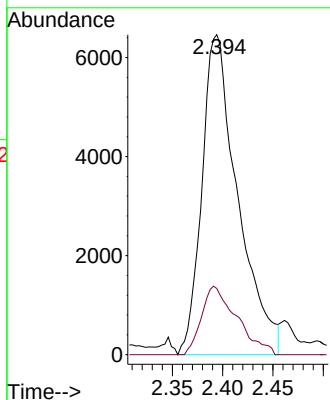
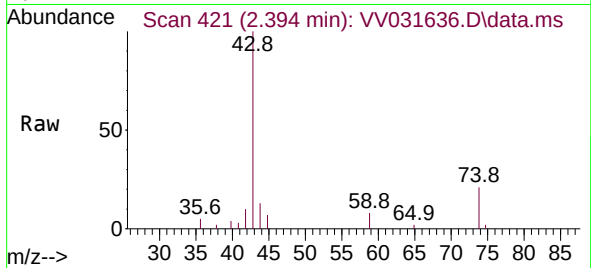




#15
Methyl Acetate
Concen: 7.203 ug/L
RT: 2.394 min Scan# 415
Delta R.T. 0.019 min
Lab File: VV031636.D
Acq: 03 Jul 2023 14:46

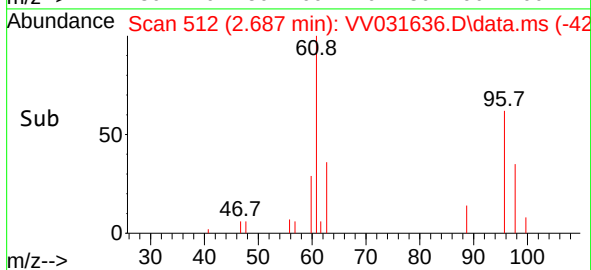
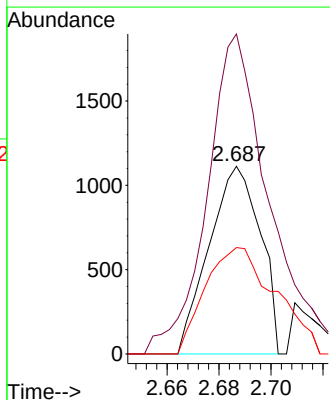
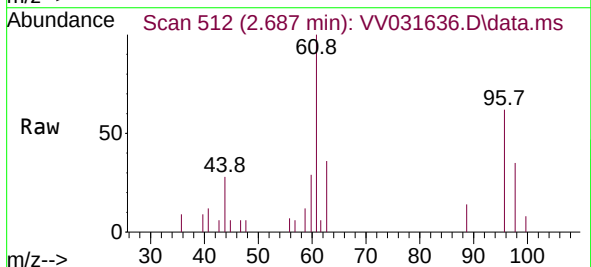
Instrument :
MSVOA_V
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A46Y3ME

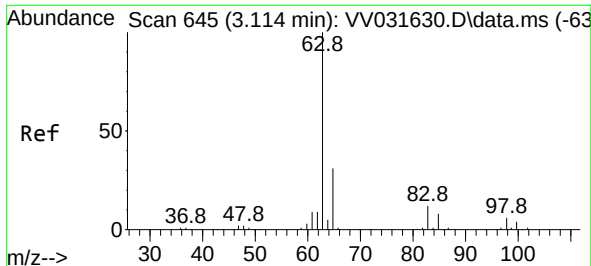
Tgt Ion: 43 Resp: 16020
Ion Ratio Lower Upper
43 100
74 21.1 17.8 26.6



#17
trans-1,2-Dichloroethene
Concen: 0.794 ug/L
RT: 2.687 min Scan# 512
Delta R.T. -0.009 min
Lab File: VV031636.D
Acq: 03 Jul 2023 14:46

Tgt Ion: 96 Resp: 1524
Ion Ratio Lower Upper
96 100
61 170.5 102.5 190.3
98 56.7 44.1 81.9





#19

1,1-Dichloroethane

Concen: 4.432 ug/L

RT: 3.108 min Scan# 64

Delta R.T. -0.006 min

Lab File: VV031636.D

Acq: 03 Jul 2023 14:46

Instrument :

MSVOA_V

ClientSampleId :

A46Y3ME

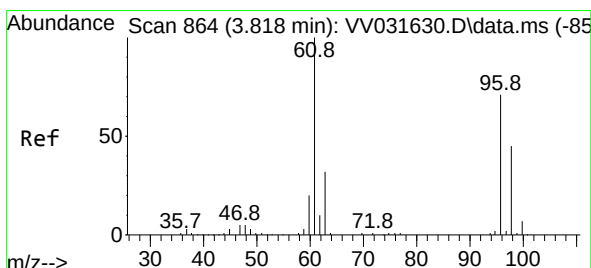
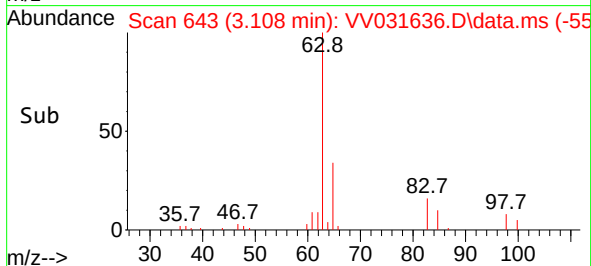
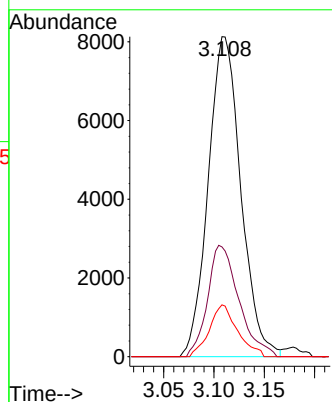
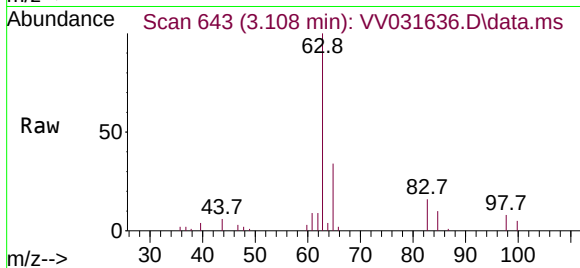
Tgt Ion: 63 Resp: 18352

Ion Ratio Lower Upper

63 100

65 34.3 22.5 41.7

83 16.2 10.0 18.6



#20

cis-1,2-Dichloroethene

Concen: 39.995 ug/L

RT: 3.815 min Scan# 863

Delta R.T. -0.003 min

Lab File: VV031636.D

Acq: 03 Jul 2023 14:46

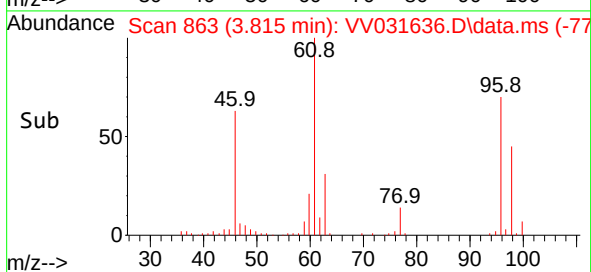
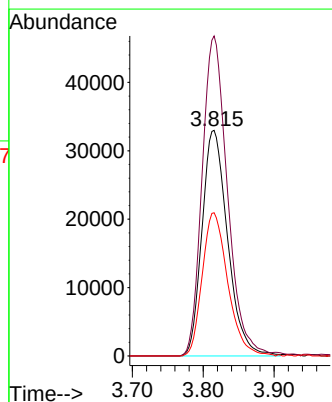
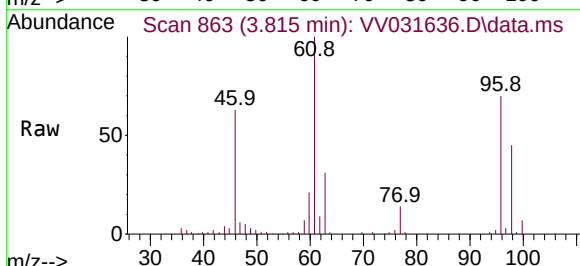
Tgt Ion: 96 Resp: 82931

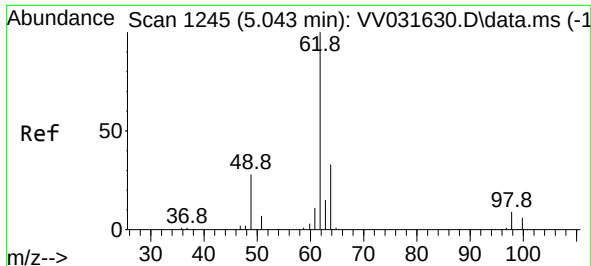
Ion Ratio Lower Upper

96 100

61 137.0 98.6 183.0

98 62.8 45.7 84.9





#27

1,2-Dichloroethane

Concen: 0.931 ug/L

RT: 5.060 min Scan# 11

Delta R.T. 0.016 min

Lab File: VV031636.D

Acq: 03 Jul 2023 14:46

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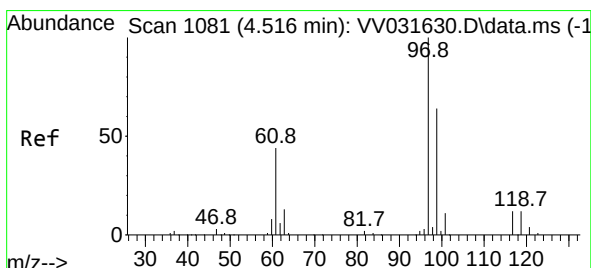
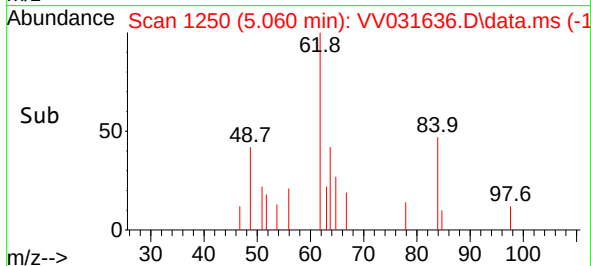
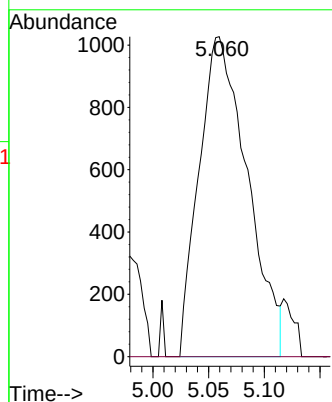
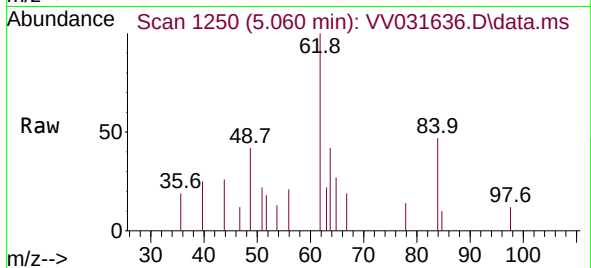
A46Y3ME

Tgt Ion: 62 Resp: 3092

Ion Ratio Lower Upper

62 100

98 0.0 6.6 9.8#



#30

1,1,1-Trichloroethane

Concen: 15.509 ug/L

RT: 4.510 min Scan# 1079

Delta R.T. -0.006 min

Lab File: VV031636.D

Acq: 03 Jul 2023 14:46

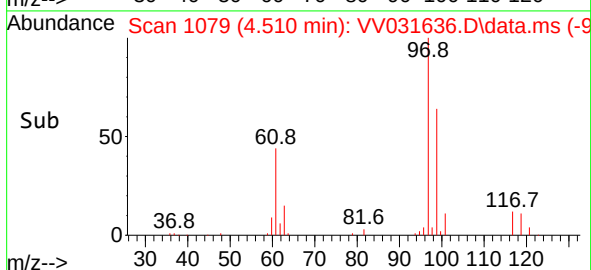
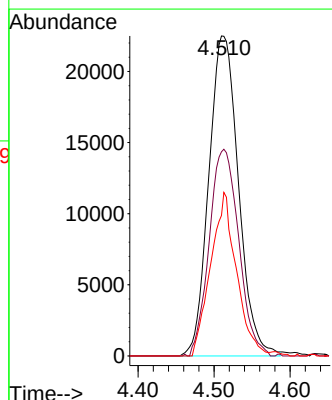
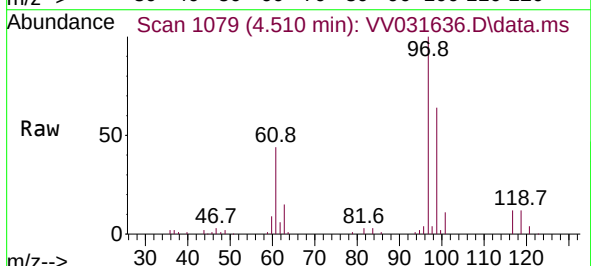
Tgt Ion: 97 Resp: 60988

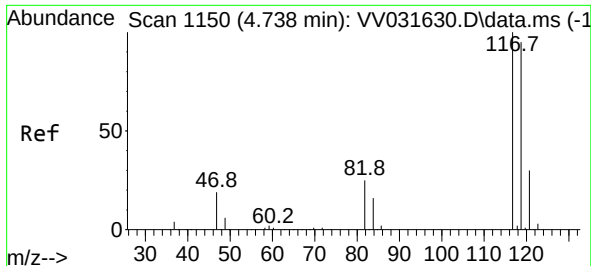
Ion Ratio Lower Upper

97 100

99 64.2 51.8 77.6

61 44.3 33.0 49.6

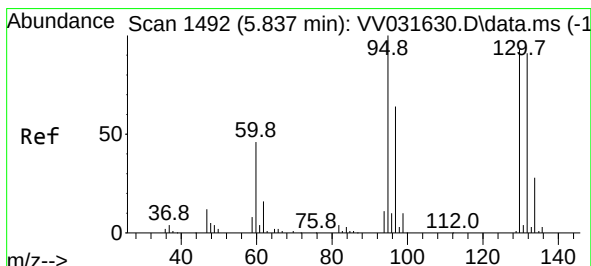
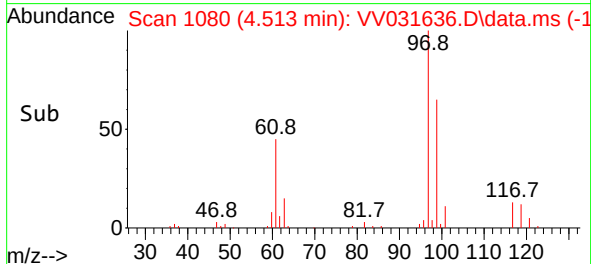
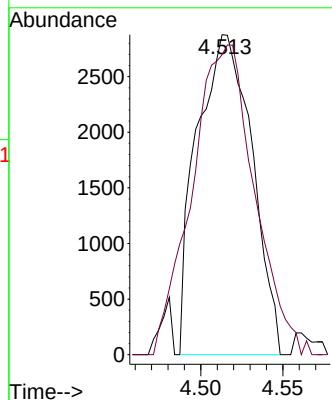
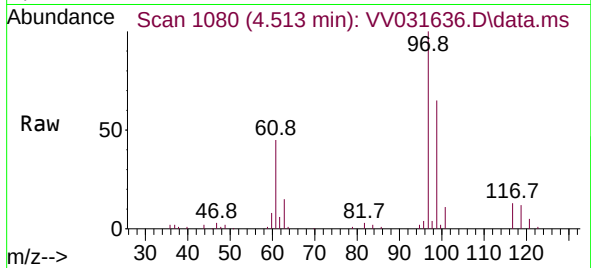




#31
Carbon tetrachloride
Concen: 1.923 ug/L
RT: 4.513 min Scan# 1080
Delta R.T. -0.225 min
Lab File: VV031636.D
Acq: 03 Jul 2023 14:46

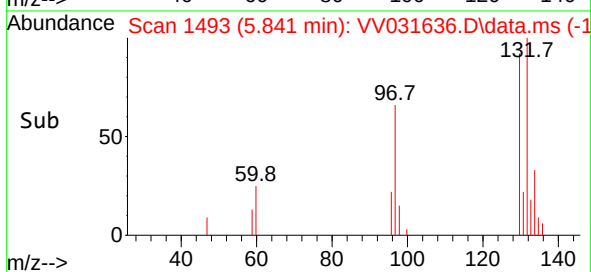
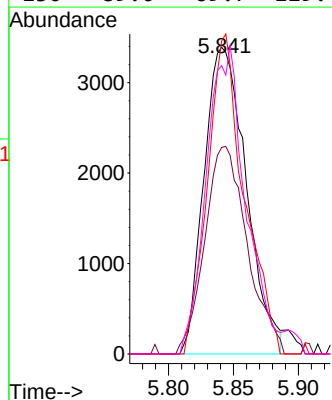
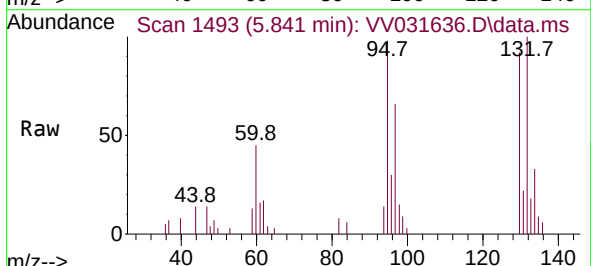
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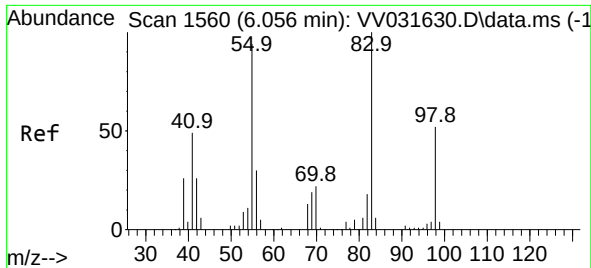
Tgt Ion:117 Resp: 6699
Ion Ratio Lower Upper
117 100
119 109.5 76.2 114.4



#34
Trichloroethene
Concen: 3.515 ug/L
RT: 5.841 min Scan# 1493
Delta R.T. 0.003 min
Lab File: VV031636.D
Acq: 03 Jul 2023 14:46

Tgt Ion: 95 Resp: 7671
Ion Ratio Lower Upper
95 100
97 51.5 46.8 86.8
132 92.2 66.4 123.2
130 89.0 69.7 129.4

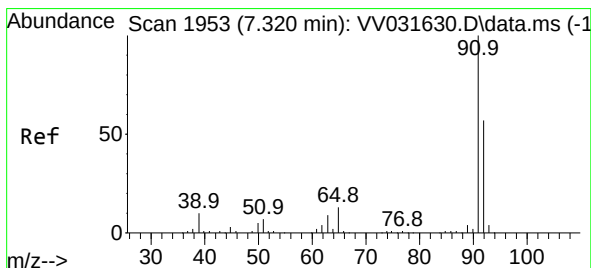
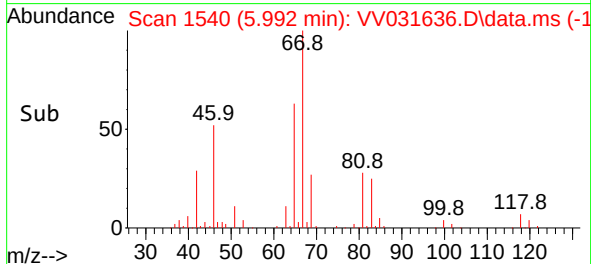
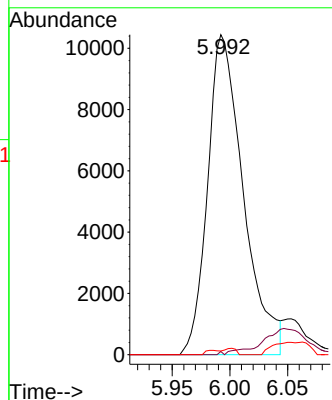
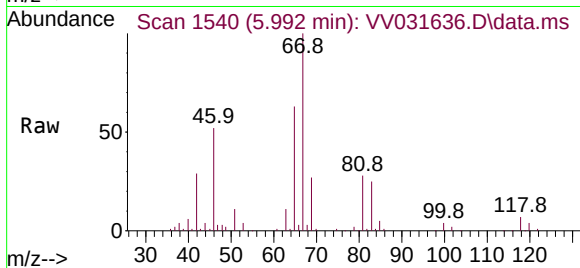




#35
Methylcyclohexane
Concen: 6.981 ug/L
RT: 5.992 min Scan# 11
Delta R.T. -0.064 min
Lab File: VV031636.D
Acq: 03 Jul 2023 14:46

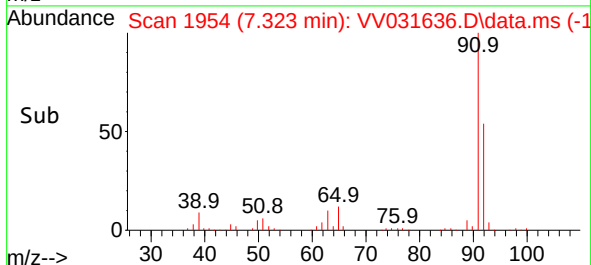
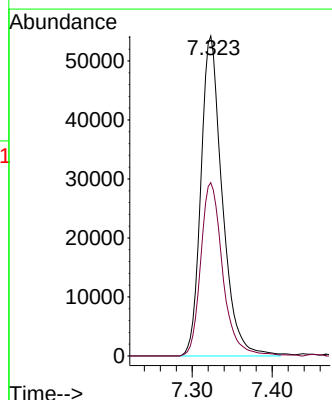
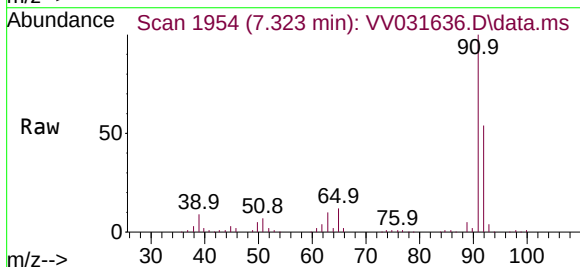
Instrument :
MSVOA_V
ClientSampleId :
A46Y3ME

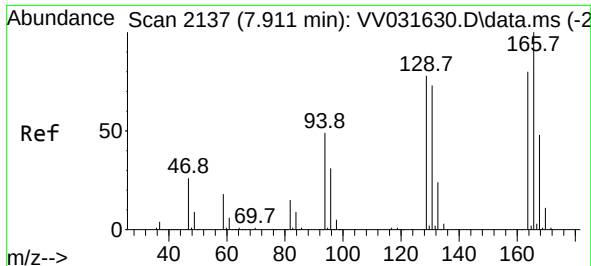
Tgt Ion: 83 Resp: 22446
Ion Ratio Lower Upper
83 100
55 0.1 68.7 103.1#
98 0.6 37.0 55.4#



#42
Toluene
Concen: 11.925 ug/L
RT: 7.323 min Scan# 1954
Delta R.T. 0.003 min
Lab File: VV031636.D
Acq: 03 Jul 2023 14:46

Tgt Ion: 91 Resp: 100965
Ion Ratio Lower Upper
91 100
92 54.1 39.6 73.6



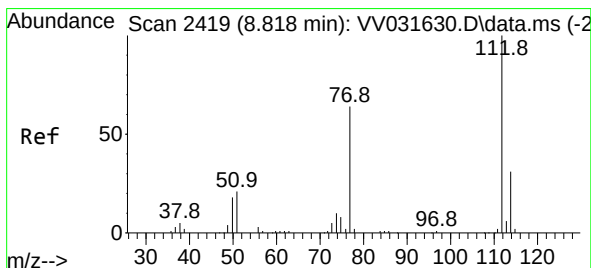
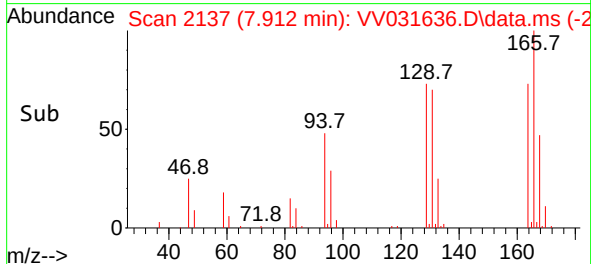
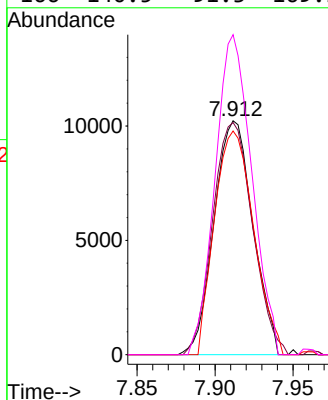
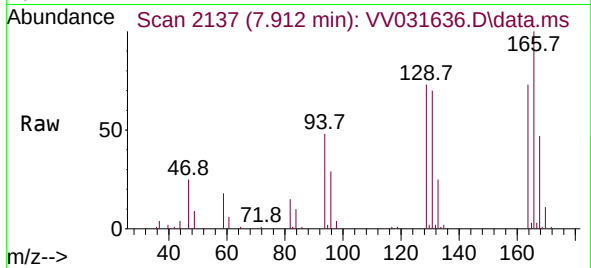


#46
Tetrachloroethene
Concen: 10.360 ug/L
RT: 7.912 min Scan# 2137
Delta R.T. 0.000 min
Lab File: VV031636.D
Acq: 03 Jul 2023 14:46

Instrument :
MSVOA_V
ClientSampleId :
A46Y3ME

Tgt Ion:164 Resp: 17742

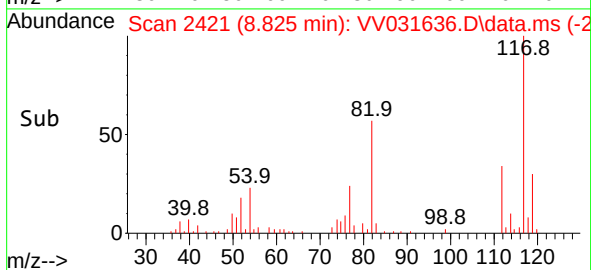
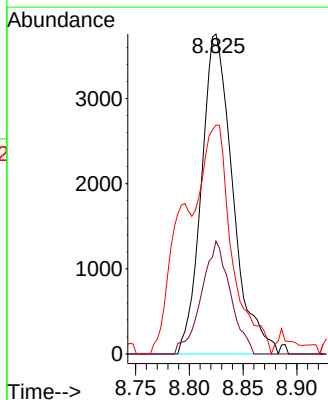
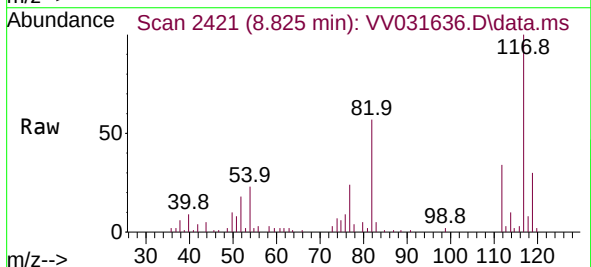
Ion	Ratio	Lower	Upper
164	100		
129	101.7	68.4	127.0
131	95.6	67.6	125.6
166	140.5	91.3	169.5

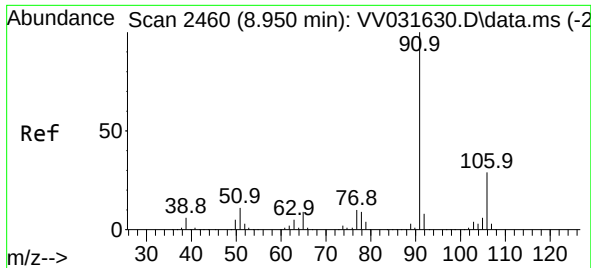


#51
Chlorobenzene
Concen: 1.361 ug/L
RT: 8.825 min Scan# 2421
Delta R.T. 0.007 min
Lab File: VV031636.D
Acq: 03 Jul 2023 14:46

Tgt Ion:112 Resp: 7632

Ion	Ratio	Lower	Upper
112	100		
114	32.4	22.9	42.5
77	65.6	52.5	78.7

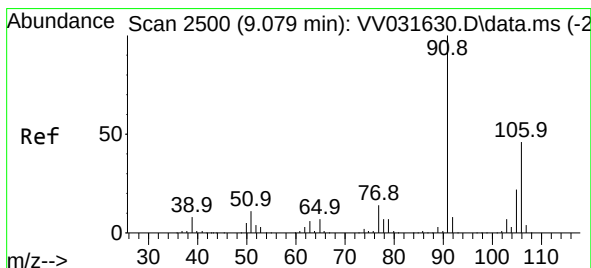
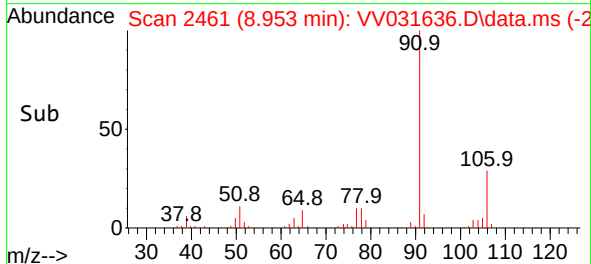
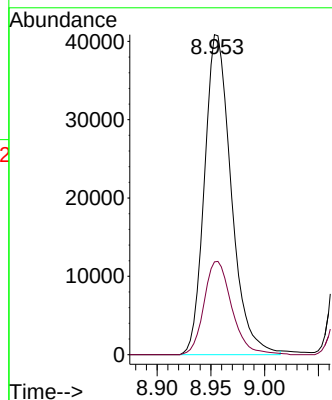
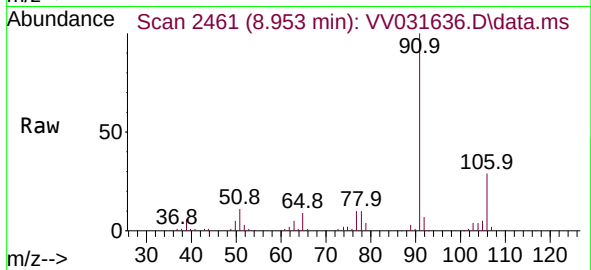




#52
Ethylbenzene
Concen: 7.486 ug/L
RT: 8.953 min Scan# 2461
Delta R.T. 0.003 min
Lab File: VV031636.D
Acq: 03 Jul 2023 14:46

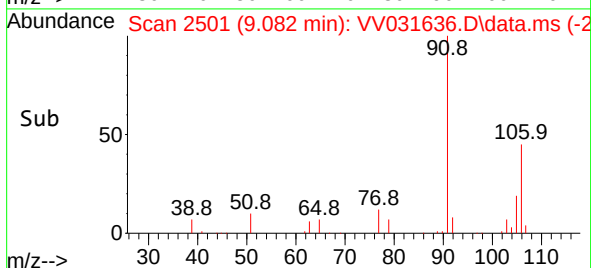
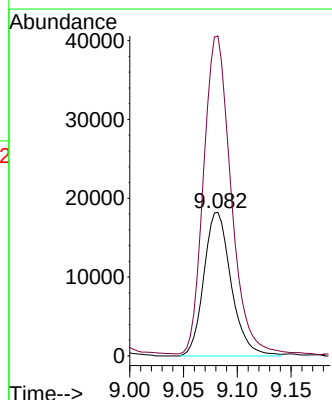
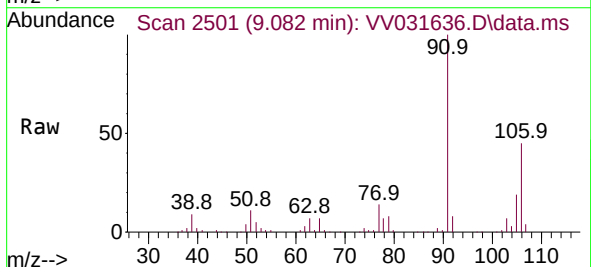
Instrument :
MSVOA_V
ClientSampleId :
A46Y3ME

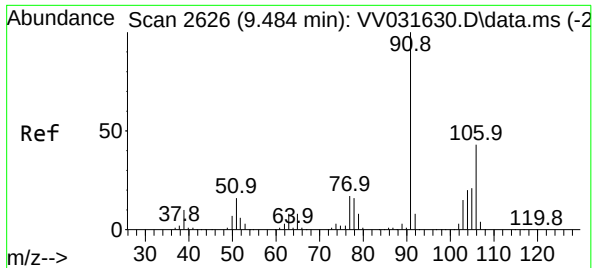
Tgt Ion: 91 Resp: 70724
Ion Ratio Lower Upper
91 100
106 29.0 20.8 38.6



#53
m,p-Xylene
Concen: 9.316 ug/L
RT: 9.082 min Scan# 2501
Delta R.T. 0.003 min
Lab File: VV031636.D
Acq: 03 Jul 2023 14:46

Tgt Ion: 106 Resp: 32233
Ion Ratio Lower Upper
106 100
91 223.0 149.0 276.6

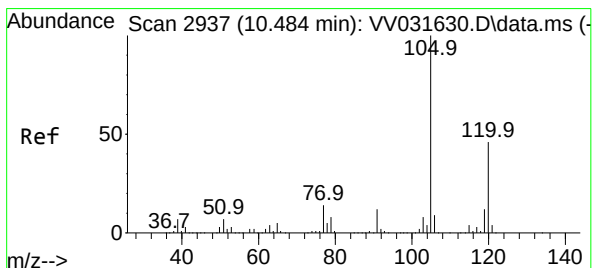
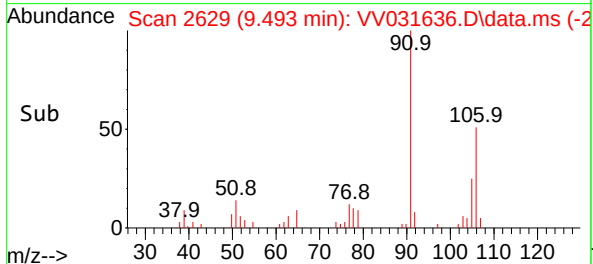
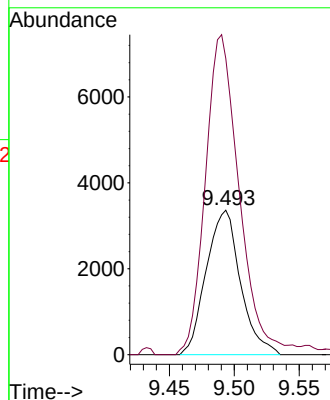
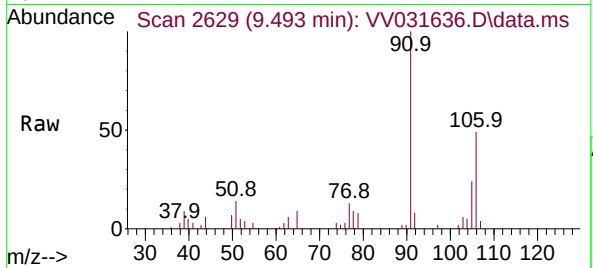




#54
o-Xylene
Concen: 1.876 ug/L
RT: 9.493 min Scan# 210
Delta R.T. 0.010 min
Lab File: VV031636.D
Acq: 03 Jul 2023 14:46

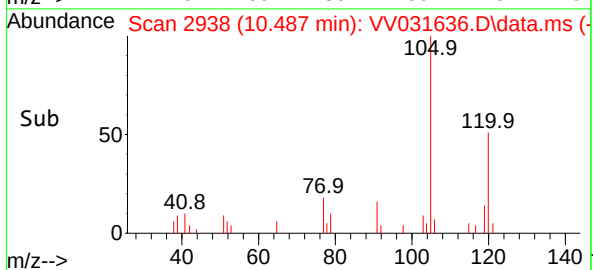
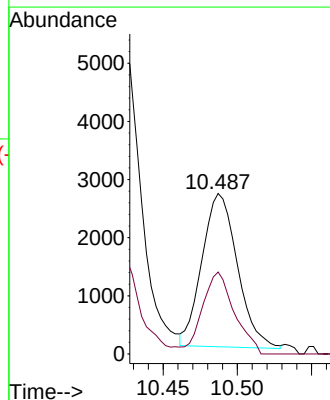
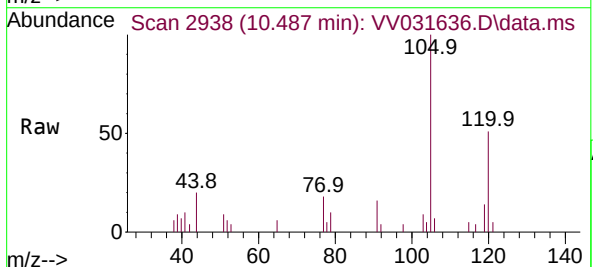
Instrument :
MSVOA_V
ClientSampleId :
A46Y3ME

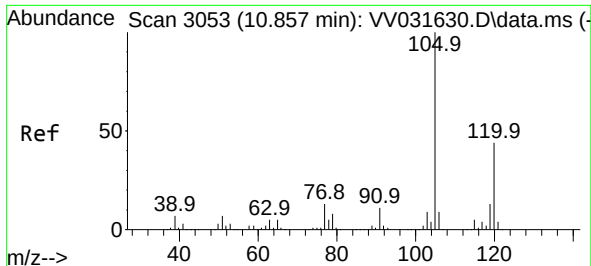
Tgt Ion:106 Resp: 6160
Ion Ratio Lower Upper
106 100
91 205.1 161.3 299.7



#62
1,3,5-Trimethylbenzene
Concen: 0.590 ug/L
RT: 10.487 min Scan# 2938
Delta R.T. 0.003 min
Lab File: VV031636.D
Acq: 03 Jul 2023 14:46

Tgt Ion:105 Resp: 4369
Ion Ratio Lower Upper
105 100
120 48.3 36.2 54.2

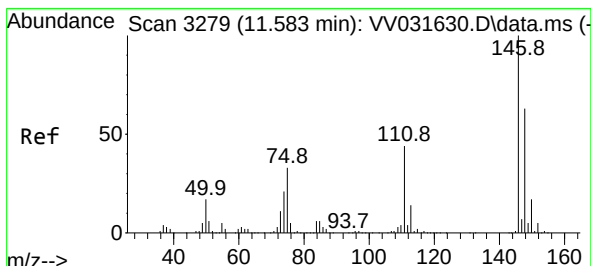
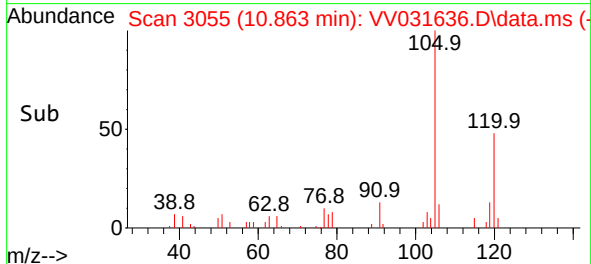
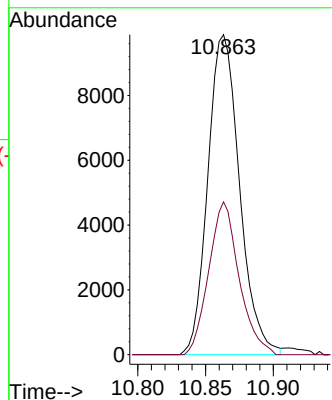
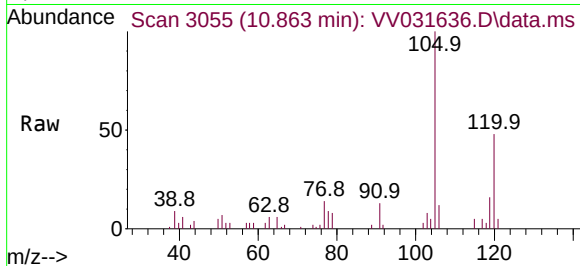




#63
1,2,4-Trimethylbenzene
Concen: 2.328 ug/L
RT: 10.863 min Scan# 3053
Delta R.T. 0.007 min
Lab File: VV031636.D
Acq: 03 Jul 2023 14:46

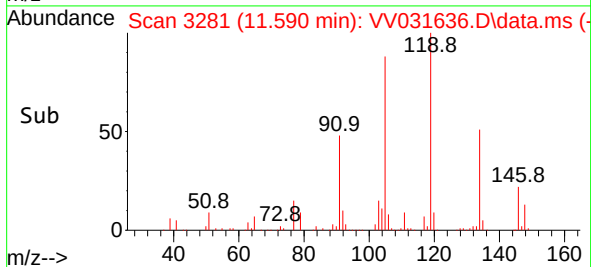
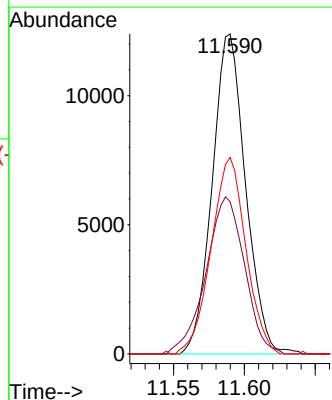
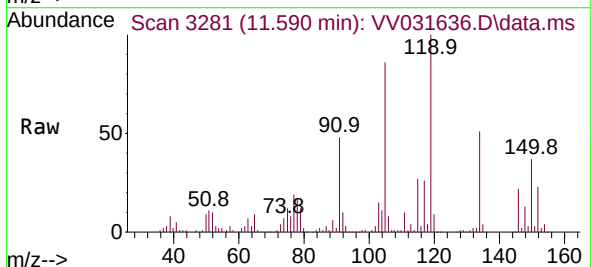
Instrument :
MSVOA_V
ClientSampleId :
A46Y3ME

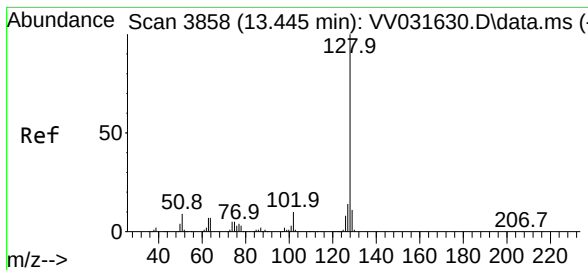
Tgt Ion:105 Resp: 16061
Ion Ratio Lower Upper
105 100
120 45.7 33.4 50.2



#67
1,2-Dichlorobenzene
Concen: 4.457 ug/L
RT: 11.590 min Scan# 3281
Delta R.T. 0.007 min
Lab File: VV031636.D
Acq: 03 Jul 2023 14:46

Tgt Ion:146 Resp: 20201
Ion Ratio Lower Upper
146 100
111 47.6 35.9 53.9
148 61.4 52.6 78.8





#71

Naphthalene

Concen: 1.285 ug/L

RT: 13.452 min Scan# 3860

Delta R.T. 0.007 min

Lab File: VV031636.D

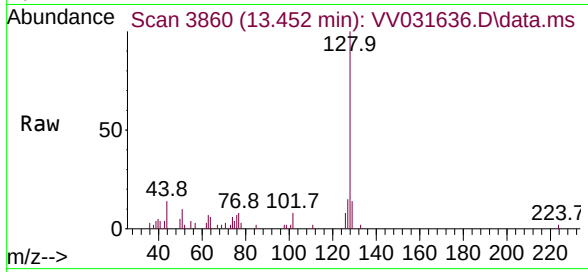
Acq: 03 Jul 2023 14:46

Instrument :

MSVOA_V

ClientSampleId :

A46Y3ME



Tgt Ion:128 Resp: 9761

Ion Ratio Lower Upper

128 100

127 14.8 10.6 16.0

129 12.7 8.6 13.0

