

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW061523\
 Data File : VW031527.D
 Acq On : 15 Jun 2023 13:41
 Operator : SY/MD
 Sample : 03249-03
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 EXYS5

Quant Time: Jun 16 02:47:29 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM061423WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Jun 16 02:44:48 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.542	114	227262	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.789	117	227107	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.191	152	142813	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.282	65	70031	46.301	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	92.600%
7) Chloroethane-d5	1.536	69	60562	45.890	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	91.780%
11) 1,1-Dichloroethene-d2	2.066	65	31853	40.862	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	81.720%
21) 2-Butanone-d5	3.796	46	155447	126.925	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	126.920%
24) Chloroform-d	4.259	84	172306	45.488	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.980%
26) 1,2-Dichloroethane-d4	4.950	65	119901	50.591	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.180%
32) Benzene-d6	4.970	84	298988	46.771	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.540%
36) 1,2-Dichloropropane-d6	5.995	67	110950	48.969	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	97.940%
41) Toluene-d8	7.249	98	256773	43.772	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	87.540%
43) trans-1,3-Dichloroprop...	7.558	79	54618	49.449	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	98.900%
47) 2-Hexanone-d5	8.030	63	111104	124.196	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	124.200%
56) 1,1,2,2-Tetrachloroeth...	10.159	84	170481	49.850	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	99.700%
66) 1,2-Dichlorobenzene-d4	11.567	152	135213	49.669	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.340%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.288	62	970179	430.261	ug/L	99
8) Chloroethane	1.555	64	1447093	993.637	ug/L	95
12) 1,1-Dichloroethene	2.076	96	9067	5.392	ug/L #	1
13) Acetone	2.127	43	4778	3.954	ug/L	99
17) trans-1,2-Dichloroethene	2.706	96	19857	11.313	ug/L	98
19) 1,1-Dichloroethane	3.121	63	4032725	1064.496	ug/L	99
20) cis-1,2-Dichloroethene	3.822	96	1571498	828.447	ug/L	98
22) 2-Butanone	3.902	43	5135	3.401	ug/L #	57
27) 1,2-Dichloroethane	5.056	62	18292	6.018	ug/L	98
30) 1,1,1-Trichloroethane	4.523	97	79334	21.788	ug/L	98
31) Carbon tetrachloride	4.523	117	9508	2.947	ug/L	98
33) Benzene	5.024	78	19282	2.550	ug/L	100
34) Trichloroethene	5.841	95	95891	47.459	ug/L	92
35) Methylcyclohexane	6.056	83	4720	1.585	ug/L #	79
42) Toluene	7.323	91	645749	82.369	ug/L	99
44) trans-1,3-Dichloropropene	7.558	75	2690	0.838	ug/L	94
45) 1,1,2-Trichloroethane	7.783	97	2460	1.173	ug/L	89
46) Tetrachloroethene	7.912	164	9092	5.733	ug/L	97
49) Dibromochloromethane	7.912	129	9007	3.864	ug/L #	9

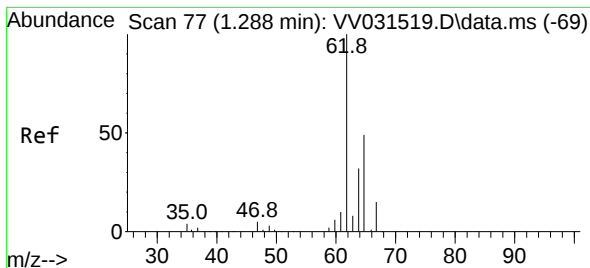
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 Data File : VV031527.D
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 Quant Title : VOC Analysis
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
52) Ethylbenzene	8.953	91	1159927	132.596	ug/L	100
53) m,p-Xylene	9.079	106	891062	278.147	ug/L	96
54) o-Xylene	9.484	106	572171	188.208	ug/L	99
60) Isopropylbenzene	9.873	105	176227	19.356	ug/L	99
62) 1,3,5-Trimethylbenzene	10.481	105	637238	84.683	ug/L	99
63) 1,2,4-Trimethylbenzene	10.860	105	4540206	647.544	ug/L	98
67) 1,2-Dichlorobenzene	11.587	146	98144	21.303	ug/L	97
71) Naphthalene	13.445	128	459089	59.450	ug/L	99

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



#5

Vinyl chloride

Concen: 430.261 ug/L

RT: 1.288 min Scan# 71

Delta R.T. 0.000 min

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MSVOA_V

ClientSampleId :

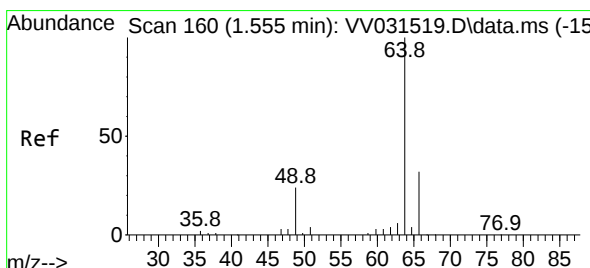
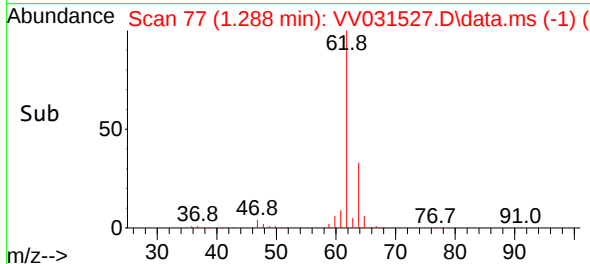
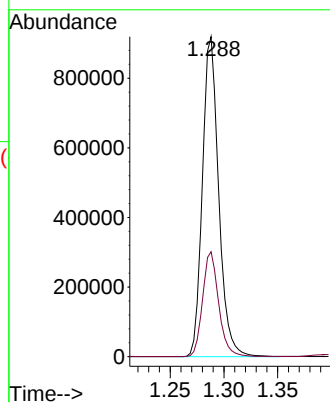
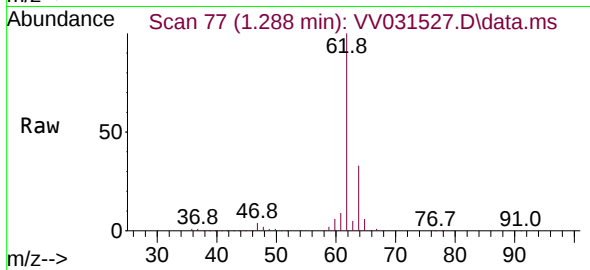
EXYS5

Tgt Ion: 62 Resp: 970179

Ion Ratio Lower Upper

62 100

64 32.8 23.4 43.4



#8

Chloroethane

Concen: 993.637 ug/L

RT: 1.555 min Scan# 160

Delta R.T. 0.000 min

Lab File: VV031527.D

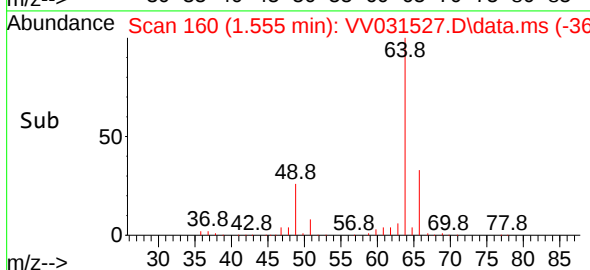
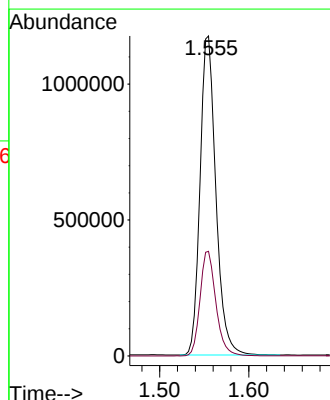
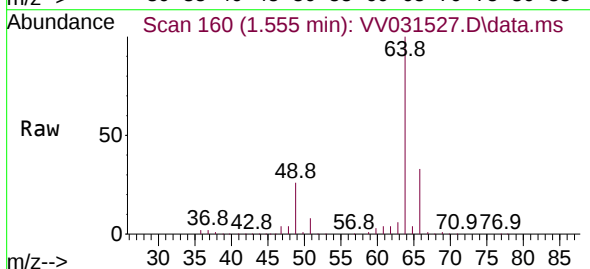
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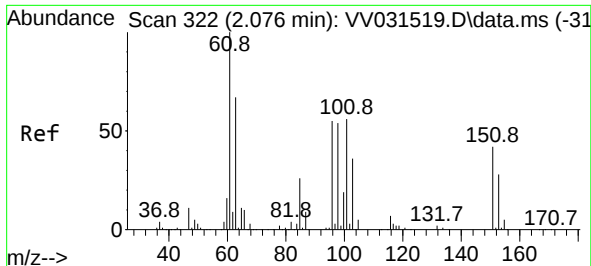
Tgt Ion: 64 Resp: 1447093

Ion Ratio Lower Upper

64 100

66 32.7 21.0 39.0





#12

1,1-Dichloroethene

Concen: 5.392 ug/L

RT: 2.076 min Scan# 31

Delta R.T. 0.000 min

Lab File: VV031527.D

Acq: 15 Jun 2023 13:41

Instrument :

MSVOA_V

ClientSampleId :

EXYS5

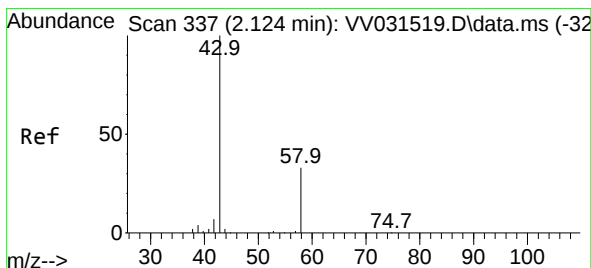
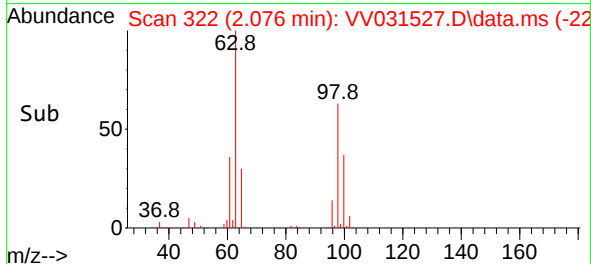
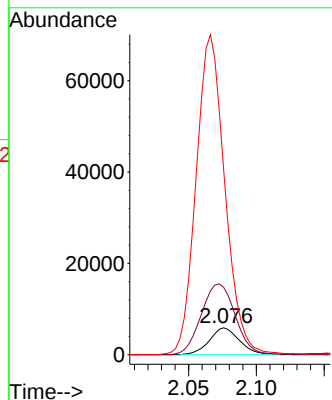
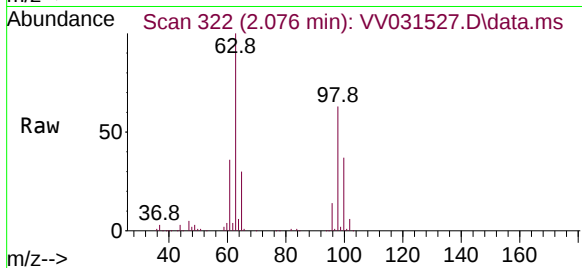
Tgt Ion: 96 Resp: 9067

Ion Ratio Lower Upper

96 100

61 229.0 128.9 239.5

63 630.5 95.3 177.1#



#13

Acetone

Concen: 3.954 ug/L

RT: 2.127 min Scan# 338

Delta R.T. 0.003 min

Lab File: VV031527.D

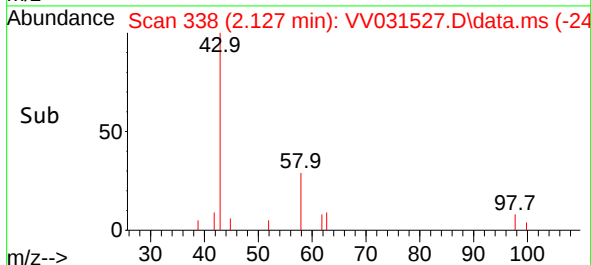
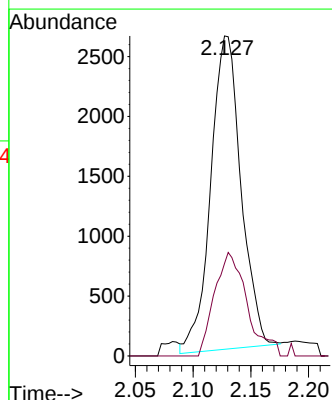
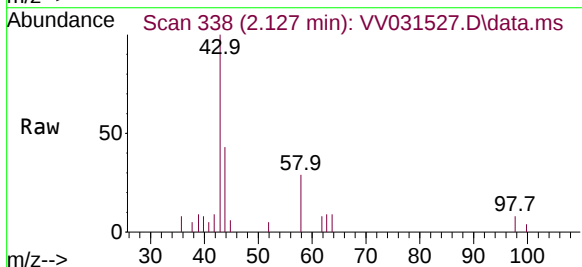
Acq: 15 Jun 2023 13:41

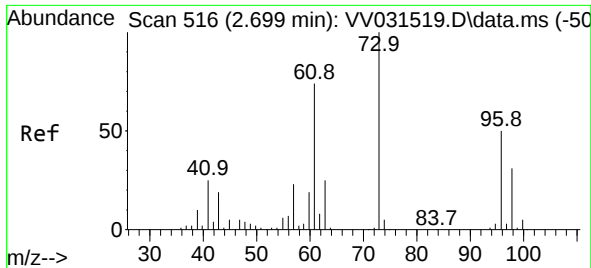
Tgt Ion: 43 Resp: 4778

Ion Ratio Lower Upper

43 100

58 35.0 0.0 68.6

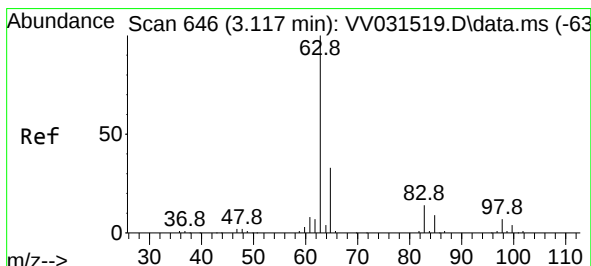
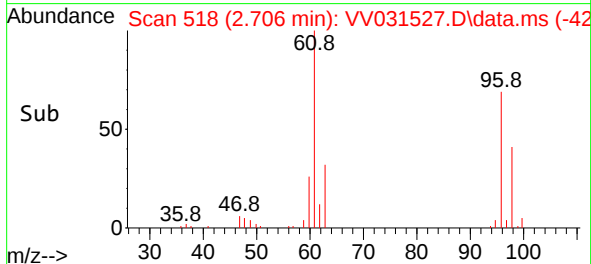
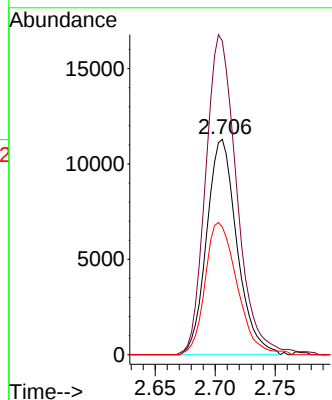
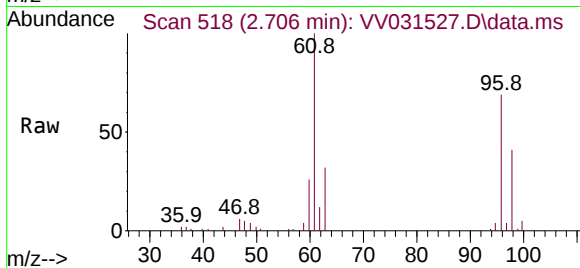




#17
trans-1,2-Dichloroethene
Concen: 11.313 ug/L
RT: 2.706 min Scan# 516
Delta R.T. 0.007 min
Lab File: VV031527.D
Acq: 15 Jun 2023 13:41

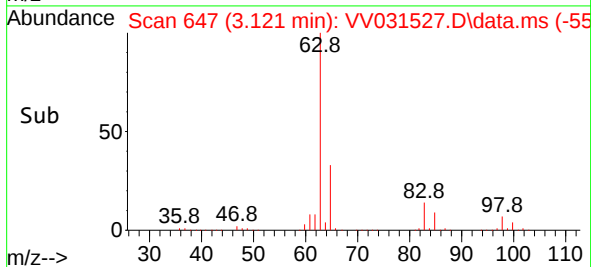
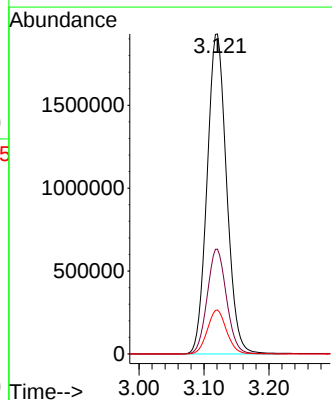
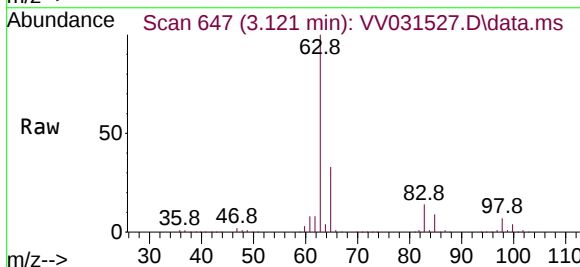
Instrument :
MSVOA_V
ClientSampleId :
EXYS5

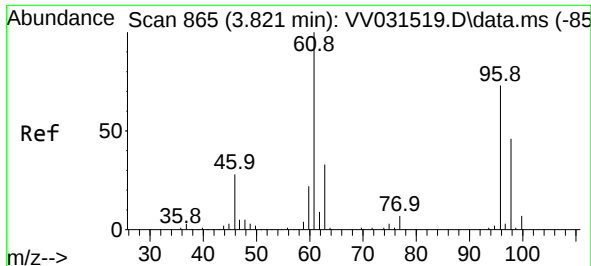
Tgt Ion: 96 Resp: 19857
Ion Ratio Lower Upper
96 100
61 145.7 102.5 190.3
98 59.3 44.1 81.9



#19
1,1-Dichloroethane
Concen: 1064.496 ug/L
RT: 3.121 min Scan# 647
Delta R.T. 0.003 min
Lab File: VV031527.D
Acq: 15 Jun 2023 13:41

Tgt Ion: 63 Resp: 4032725
Ion Ratio Lower Upper
63 100
65 32.7 22.5 41.7
83 13.7 10.0 18.6



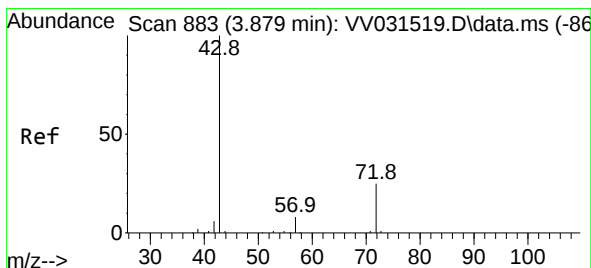
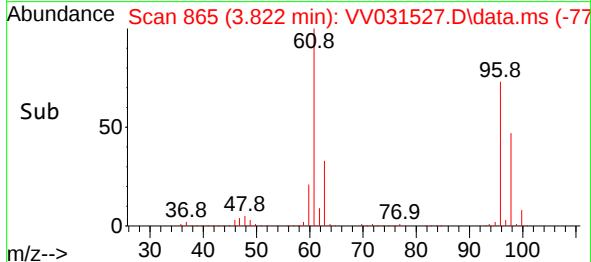
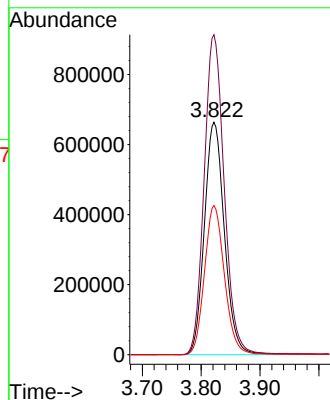
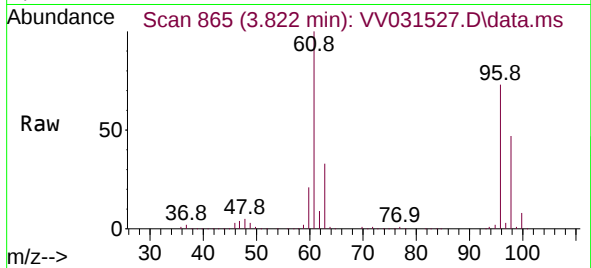


#20
 cis-1,2-Dichloroethene
 Concen: 828.447 ug/L
 RT: 3.822 min Scan# 80
 Delta R.T. 0.000 min
 Lab File: VV031527.D
 Acq: 15 Jun 2023 13:41

Instrument :
 MSVOA_V
 ClientSampleId :
 EXYS5

Tgt Ion: 96 Resp: 1571498

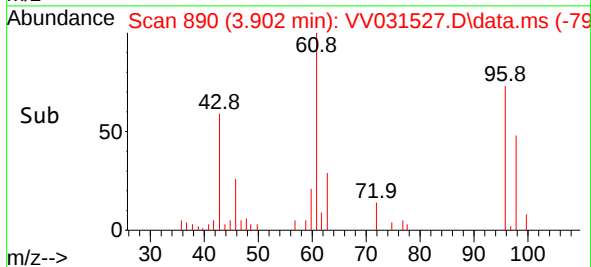
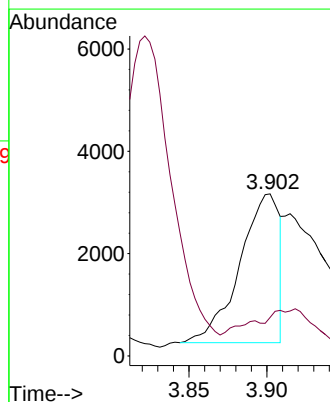
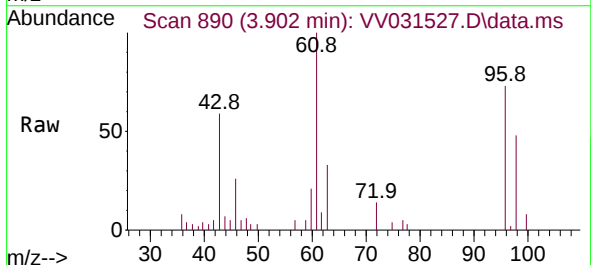
Ion	Ratio	Lower	Upper
96	100		
61	137.6	98.6	183.0
98	64.2	45.7	84.9

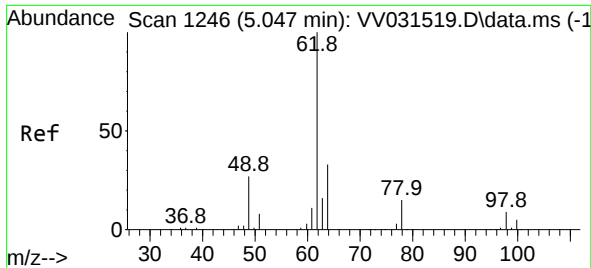


#22
 2-Butanone
 Concen: 3.401 ug/L
 RT: 3.902 min Scan# 890
 Delta R.T. 0.023 min
 Lab File: VV031527.D
 Acq: 15 Jun 2023 13:41

Tgt Ion: 43 Resp: 5135

Ion	Ratio	Lower	Upper
43	100		
72	3.1	12.2	36.4#

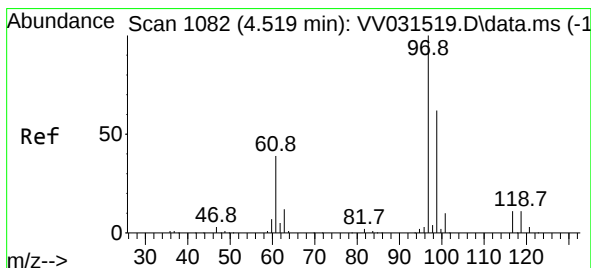
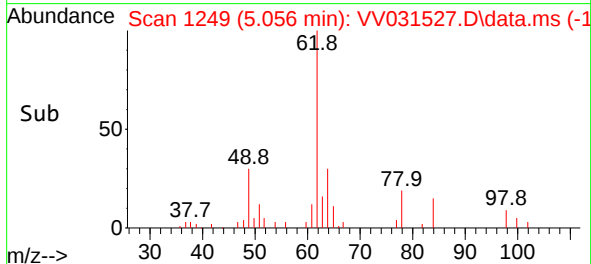
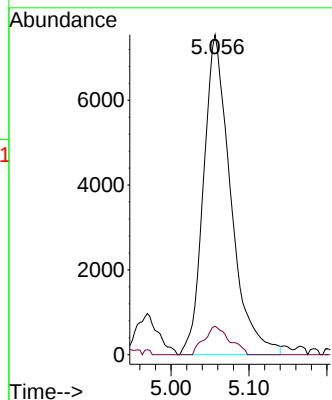
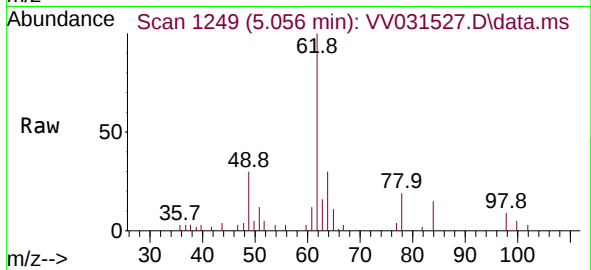




#27
1,2-Dichloroethane
Concen: 6.018 ug/L
RT: 5.056 min Scan# 11
Delta R.T. 0.010 min
Lab File: VV031527.D
Acq: 15 Jun 2023 13:41

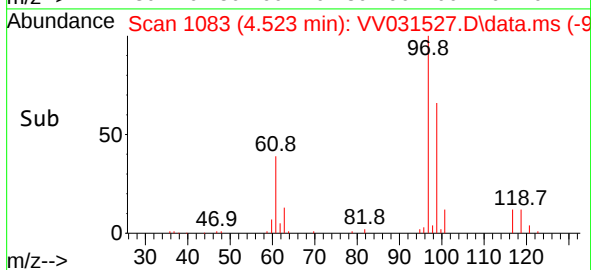
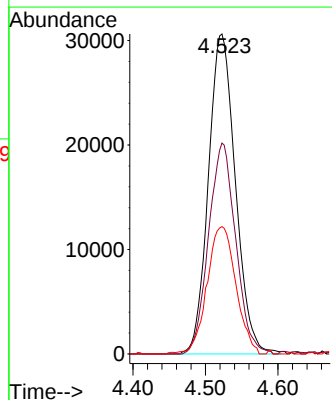
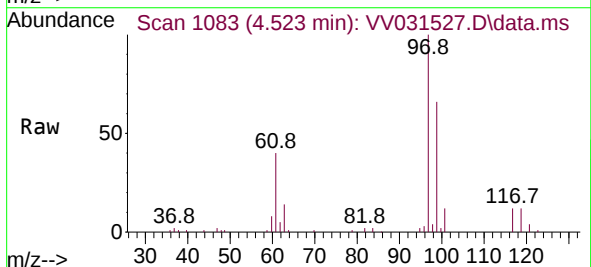
Instrument :
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EXYS5

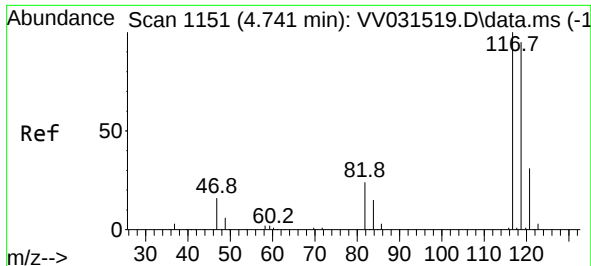
Tgt Ion: 62 Resp: 18292
Ion Ratio Lower Upper
62 100
98 8.9 6.6 9.8



#30
1,1,1-Trichloroethane
Concen: 21.788 ug/L
RT: 4.523 min Scan# 1083
Delta R.T. 0.003 min
Lab File: VV031527.D
Acq: 15 Jun 2023 13:41

Tgt Ion: 97 Resp: 79334
Ion Ratio Lower Upper
97 100
99 66.2 51.8 77.6
61 42.4 33.0 49.6

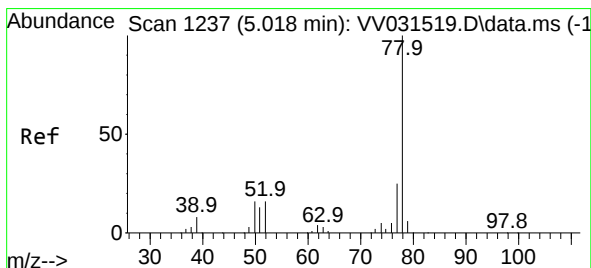
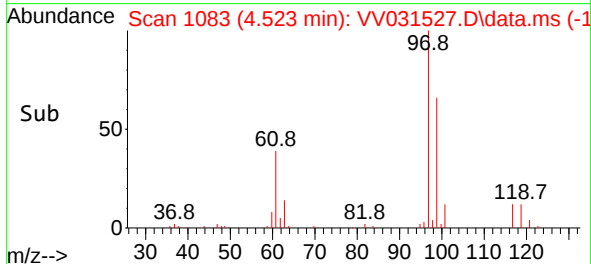
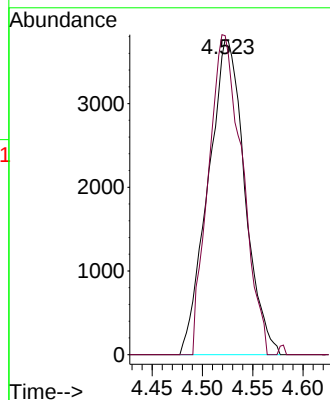
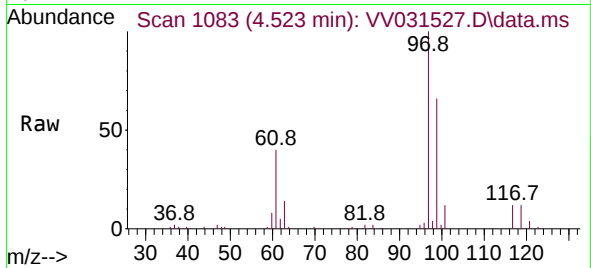




#31
Carbon tetrachloride
Concen: 2.947 ug/L
RT: 4.523 min Scan# 1151
Delta R.T. -0.218 min
Lab File: VV031527.D
Acq: 15 Jun 2023 13:41

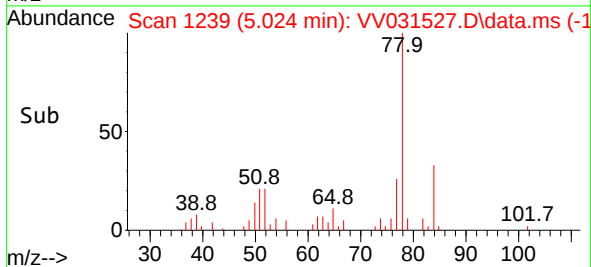
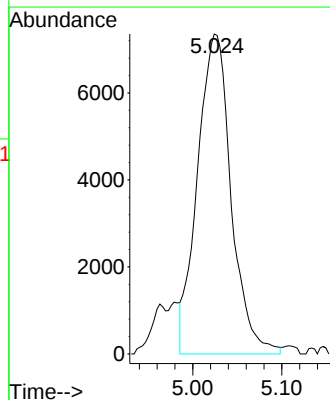
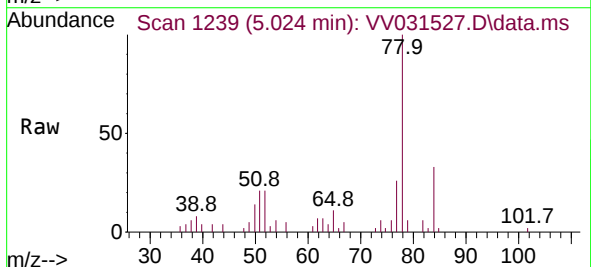
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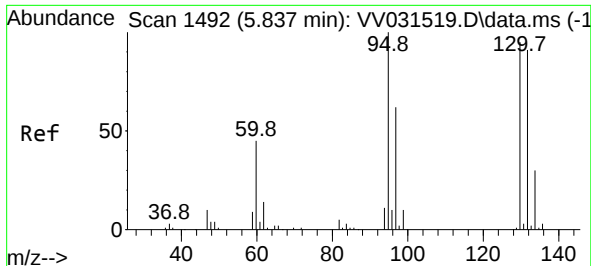
Tgt Ion:117 Resp: 9508
Ion Ratio Lower Upper
117 100
119 93.7 76.2 114.4



#33
Benzene
Concen: 2.550 ug/L
RT: 5.024 min Scan# 1239
Delta R.T. 0.007 min
Lab File: VV031527.D
Acq: 15 Jun 2023 13:41

Tgt Ion: 78 Resp: 19282

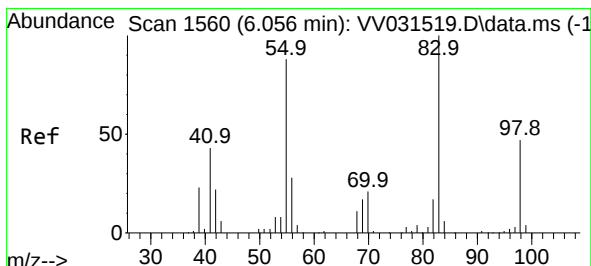
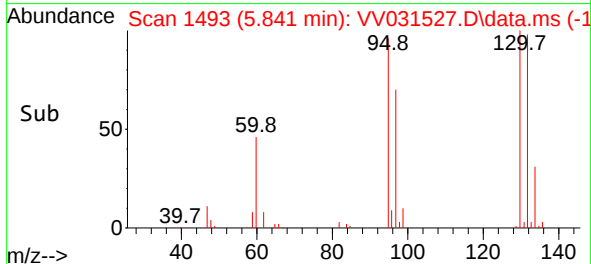
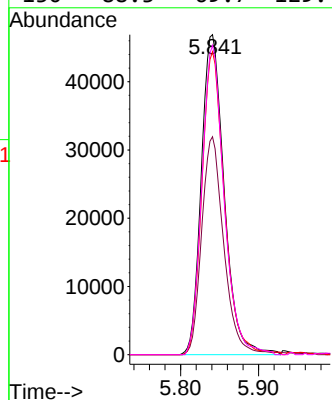
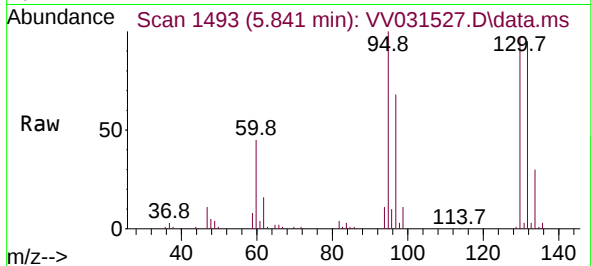




#34
Trichloroethene
Concen: 47.459 ug/L
RT: 5.841 min Scan# 1493
Delta R.T. 0.003 min
Lab File: VV031527.D
Acq: 15 Jun 2023 13:41

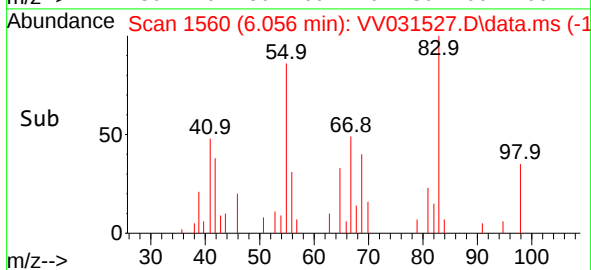
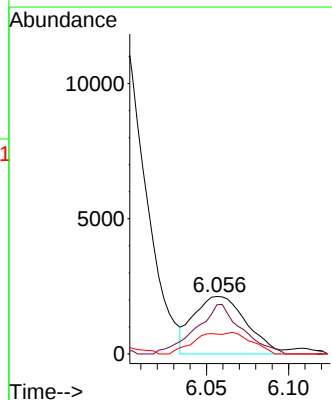
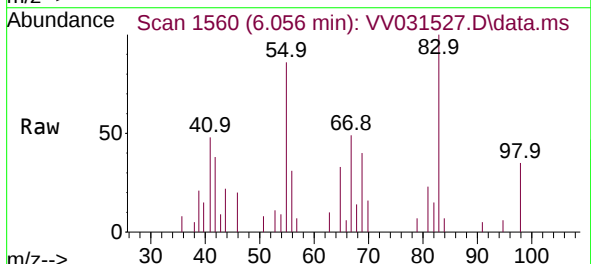
Instrument :
MSVOA_V
ClientSampleId :
EXYS5

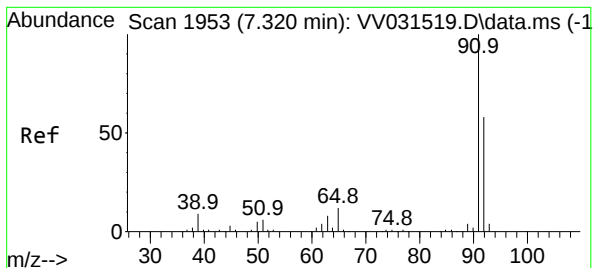
Tgt Ion: 95 Resp: 95891
Ion Ratio Lower Upper
95 100
97 62.2 46.8 86.8
132 88.8 66.4 123.2
130 88.3 69.7 129.4



#35
Methylcyclohexane
Concen: 1.585 ug/L
RT: 6.056 min Scan# 1560
Delta R.T. 0.000 min
Lab File: VV031527.D
Acq: 15 Jun 2023 13:41

Tgt Ion: 83 Resp: 4720
Ion Ratio Lower Upper
83 100
55 75.1 68.7 103.1
98 20.9 37.0 55.4#





#42

Toluene

Concen: 82.369 ug/L

RT: 7.323 min Scan# 1953

Delta R.T. 0.003 min

Lab File: VV031527.D

Acq: 15 Jun 2023 13:41

Instrument :

MSVOA_V

ClientSampleId :

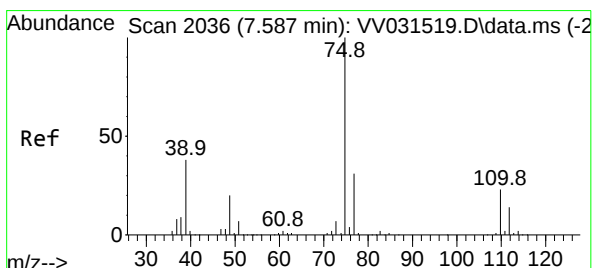
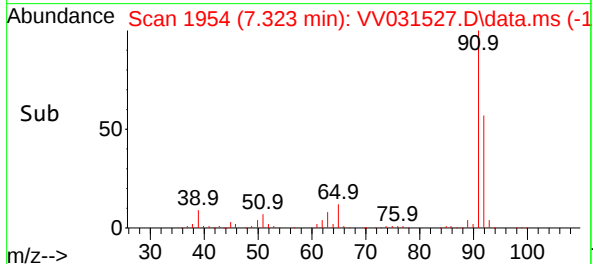
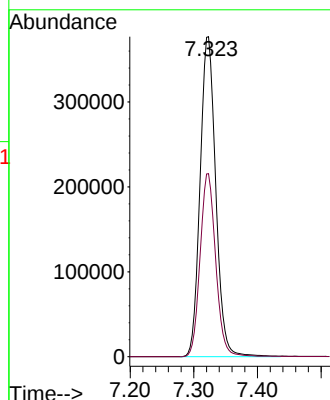
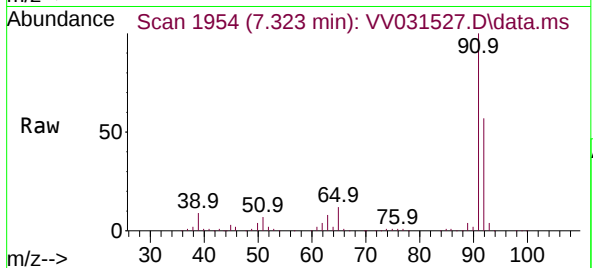
EXYS5

Tgt Ion: 91 Resp: 645749

Ion Ratio Lower Upper

91 100

92 57.2 39.6 73.6



#44

trans-1,3-Dichloropropene

Concen: 0.838 ug/L

RT: 7.558 min Scan# 2027

Delta R.T. -0.029 min

Lab File: VV031527.D

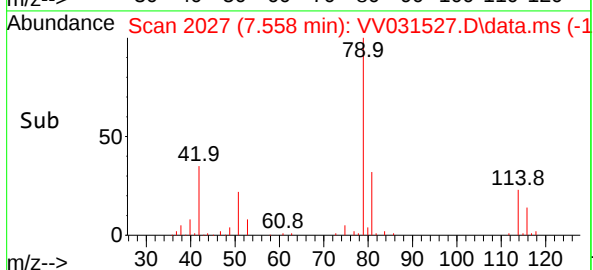
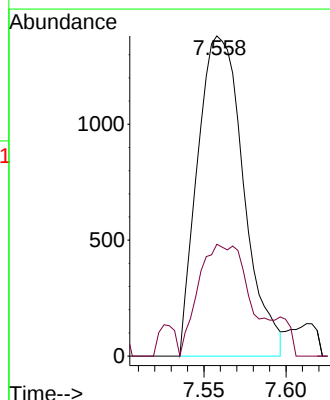
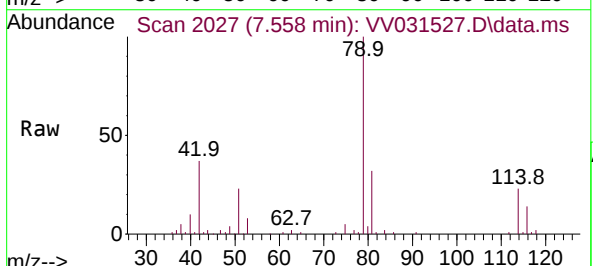
Acq: 15 Jun 2023 13:41

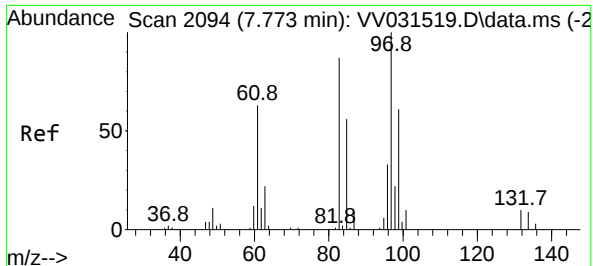
Tgt Ion: 75 Resp: 2690

Ion Ratio Lower Upper

75 100

77 34.9 22.1 41.1

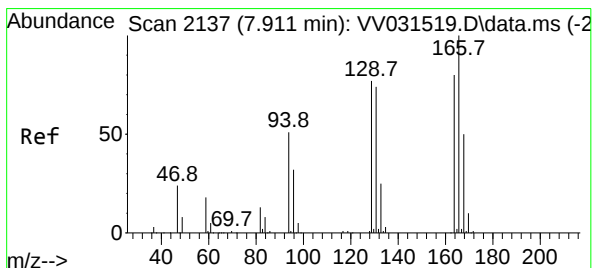
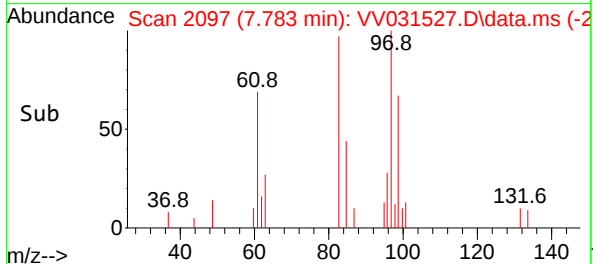
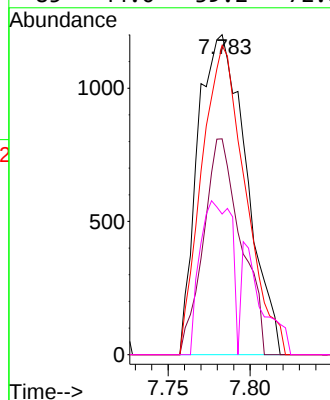
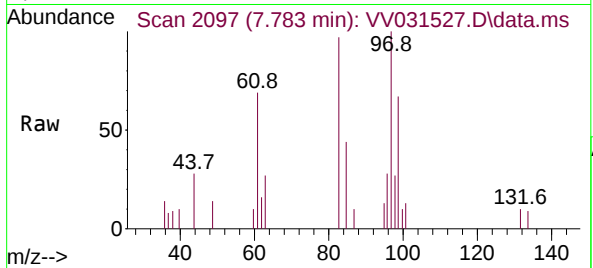




#45
1,1,2-Trichloroethane
Concen: 1.173 ug/L
RT: 7.783 min Scan# 2094
Delta R.T. 0.010 min
Lab File: VV031527.D
Acq: 15 Jun 2023 13:41

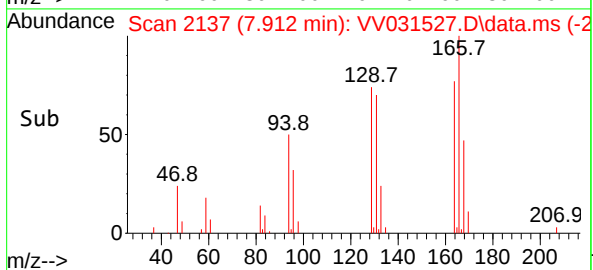
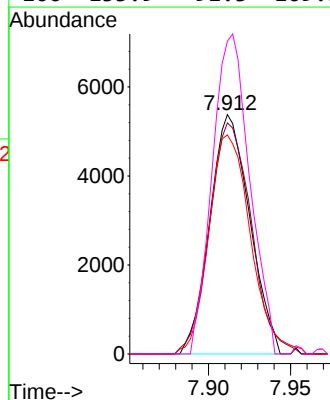
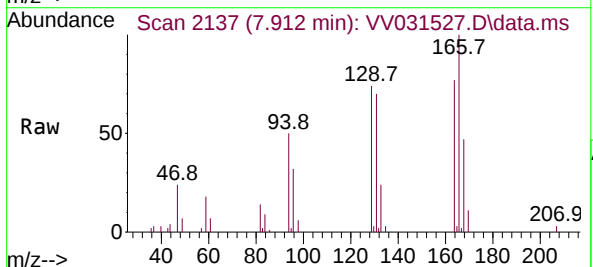
Instrument :
MSVOA_V
ClientSampleId :
EXYS5

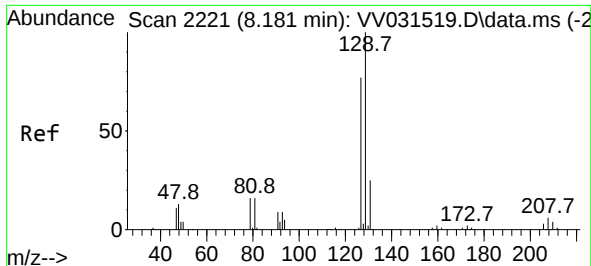
Tgt Ion:	97	Resp:	2460
Ion	Ratio	Lower	Upper
97	100		
99	67.4	43.7	81.1
83	96.6	60.9	113.1
85	44.0	39.2	72.8



#46
Tetrachloroethene
Concen: 5.733 ug/L
RT: 7.912 min Scan# 2137
Delta R.T. 0.000 min
Lab File: VV031527.D
Acq: 15 Jun 2023 13:41

Tgt Ion:	164	Resp:	9092
Ion	Ratio	Lower	Upper
164	100		
129	99.9	68.4	127.0
131	91.5	67.6	125.6
166	133.9	91.3	169.5





#49

Dibromochloromethane

Concen: 3.864 ug/L

RT: 7.912 min Scan# 2137

Delta R.T. -0.270 min

Lab File: VV031527.D

Acq: 15 Jun 2023 13:41

Instrument :

MSVOA_V

ClientSampleId :

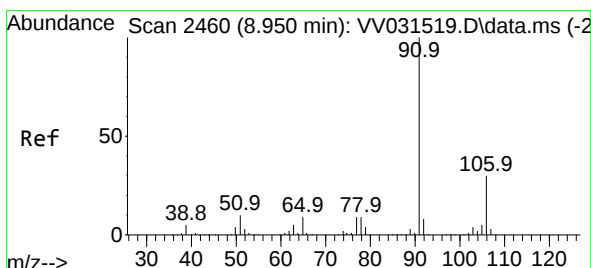
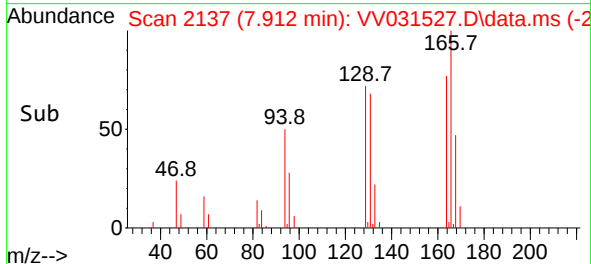
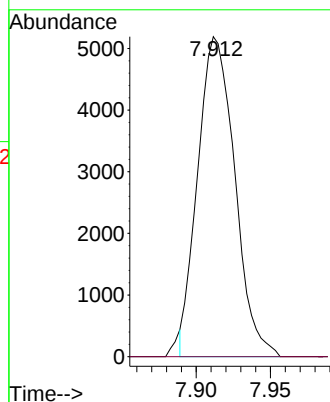
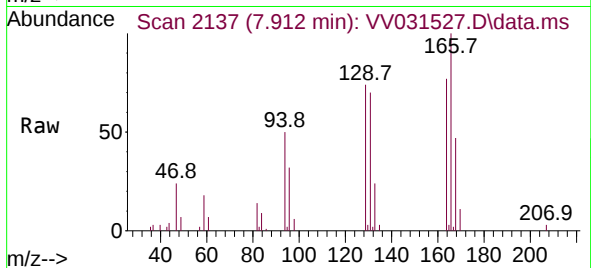
EXYS5

Tgt Ion:129 Resp: 9007

Ion Ratio Lower Upper

129 100

127 0.0 55.8 103.6#



#52

Ethylbenzene

Concen: 132.596 ug/L

RT: 8.953 min Scan# 2461

Delta R.T. 0.003 min

Lab File: VV031527.D

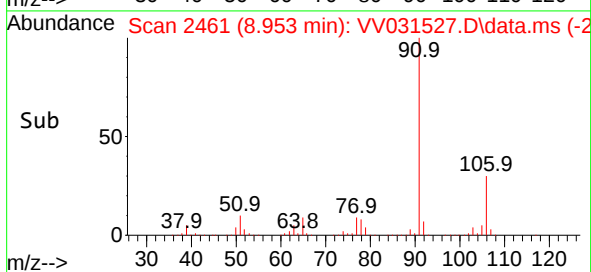
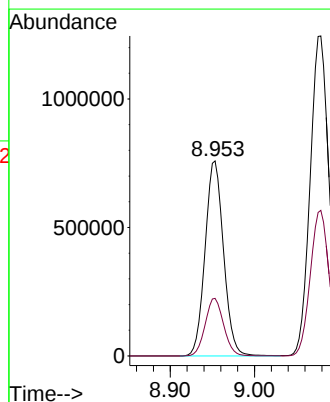
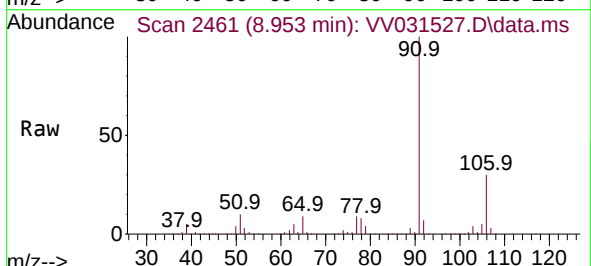
Acq: 15 Jun 2023 13:41

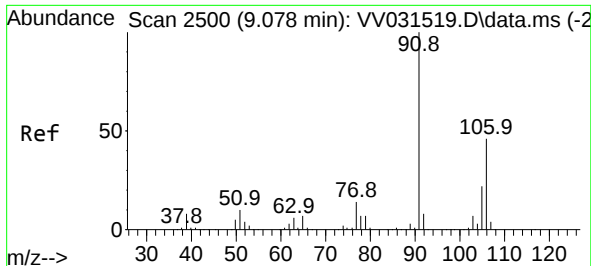
Tgt Ion: 91 Resp: 1159927

Ion Ratio Lower Upper

91 100

106 29.6 20.8 38.6

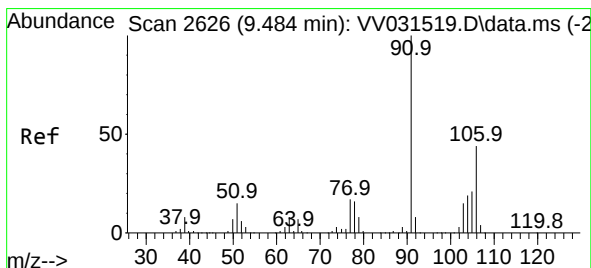
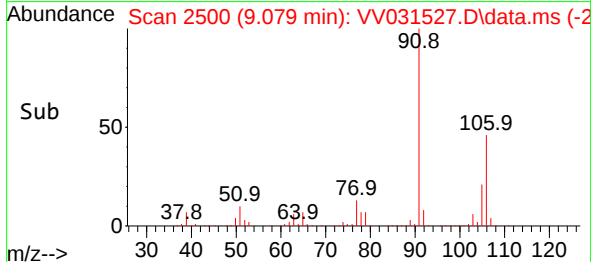
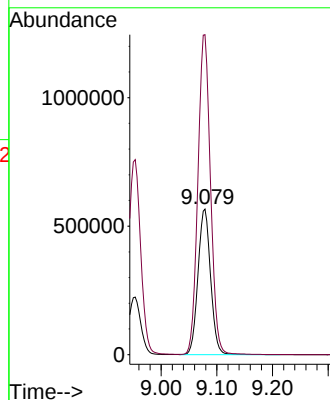
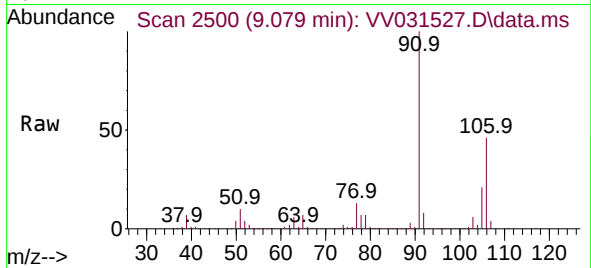




#53
m,p-Xylene
Concen: 278.147 ug/L
RT: 9.079 min Scan# 21
Delta R.T. 0.000 min
Lab File: VV031527.D
Acq: 15 Jun 2023 13:41

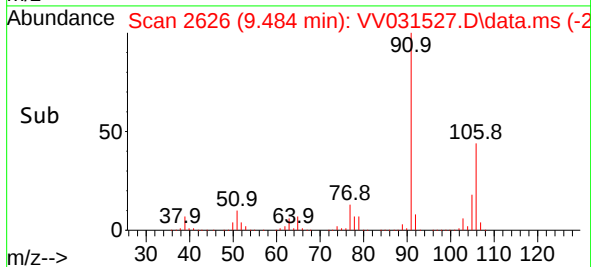
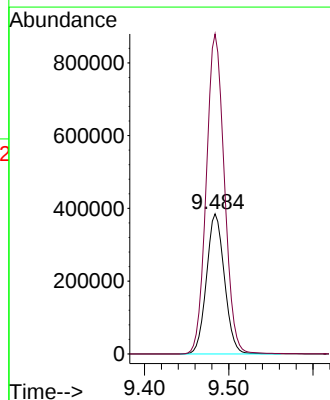
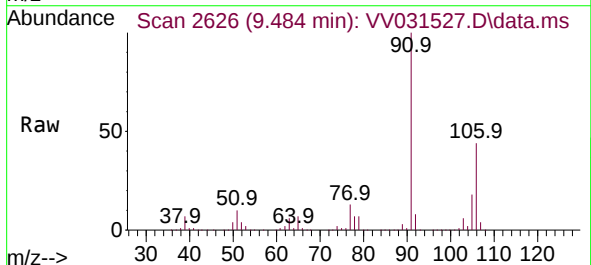
Instrument :
MSVOA_V
ClientSampleId :
EXYS5

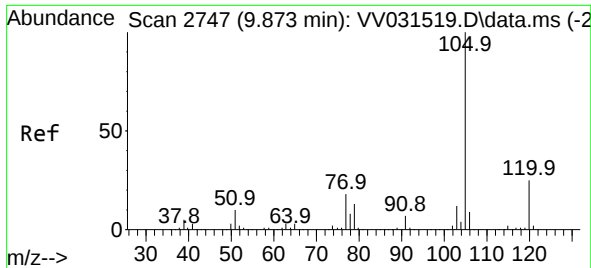
Tgt Ion:106 Resp: 891062
Ion Ratio Lower Upper
106 100
91 219.8 149.0 276.6



#54
o-Xylene
Concen: 188.208 ug/L
RT: 9.484 min Scan# 2626
Delta R.T. 0.000 min
Lab File: VV031527.D
Acq: 15 Jun 2023 13:41

Tgt Ion:106 Resp: 572171
Ion Ratio Lower Upper
106 100
91 228.4 161.3 299.7

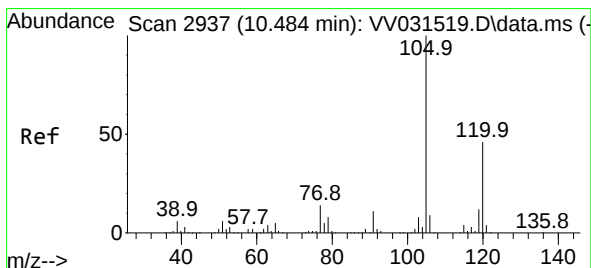
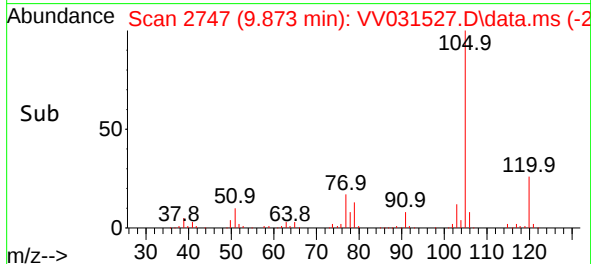
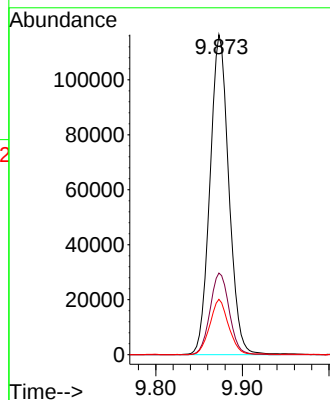
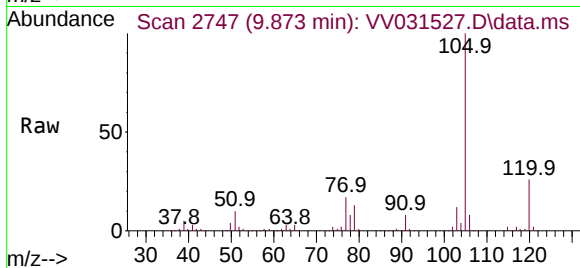




#60
Isopropylbenzene
Concen: 19.356 ug/L
RT: 9.873 min Scan# 21
Delta R.T. 0.000 min
Lab File: VV031527.D
Acq: 15 Jun 2023 13:41

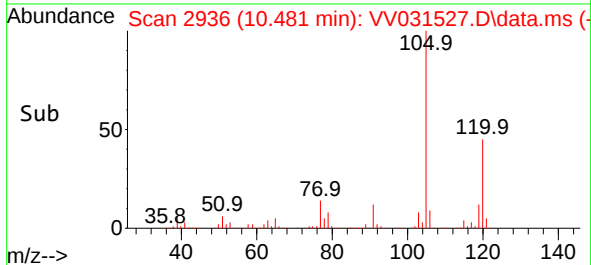
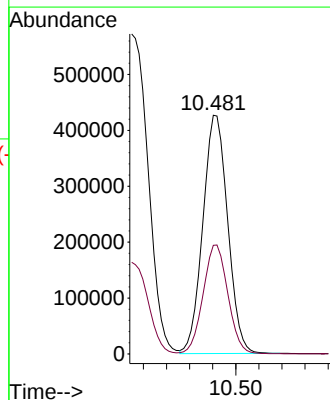
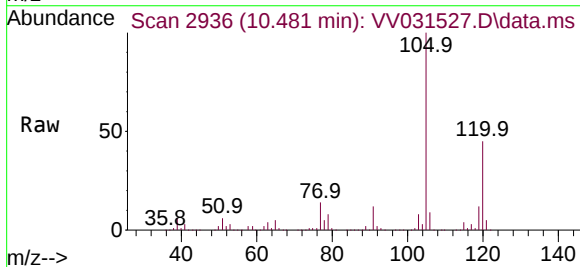
Instrument :
MSVOA_V
ClientSampleId :
EXYS5

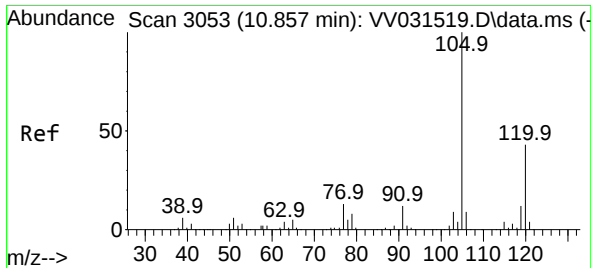
Tgt Ion:105 Resp: 176227
Ion Ratio Lower Upper
105 100
120 25.9 20.2 30.2
77 17.2 13.5 20.3



#62
1,3,5-Trimethylbenzene
Concen: 84.683 ug/L
RT: 10.481 min Scan# 2936
Delta R.T. -0.003 min
Lab File: VV031527.D
Acq: 15 Jun 2023 13:41

Tgt Ion:105 Resp: 637238
Ion Ratio Lower Upper
105 100
120 45.7 36.2 54.2

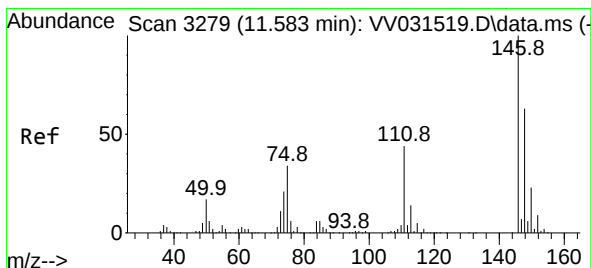
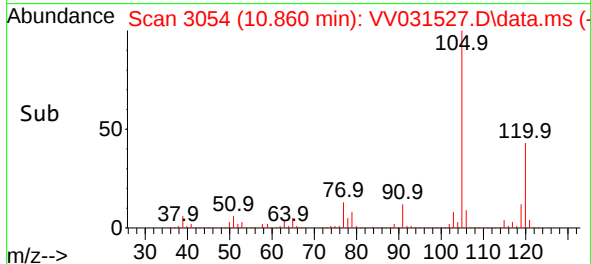
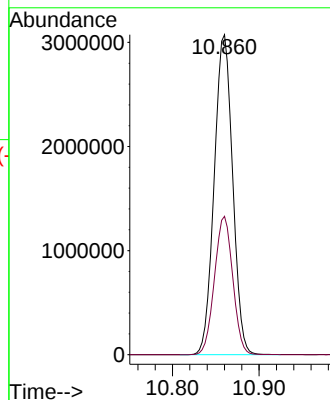
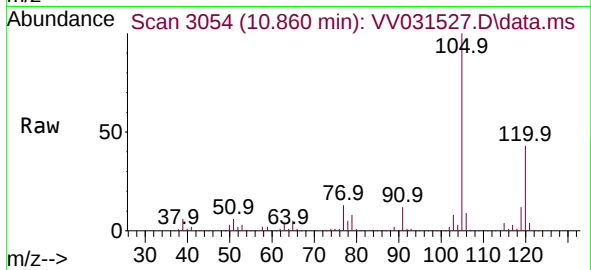




#63
1,2,4-Trimethylbenzene
Concen: 647.544 ug/L
RT: 10.860 min Scan# 3053
Delta R.T. 0.003 min
Lab File: VV031527.D
Acq: 15 Jun 2023 13:41

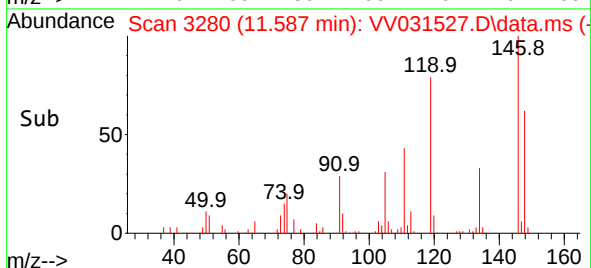
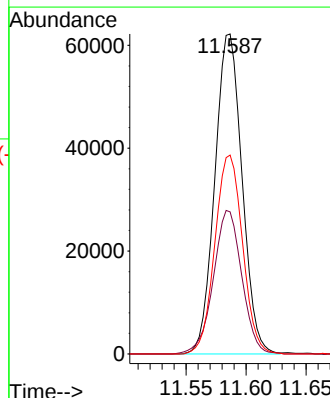
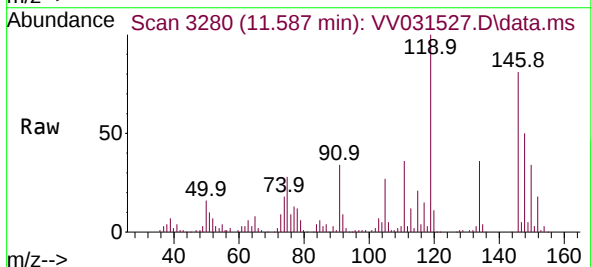
Instrument :
MSVOA_V
ClientSampleId :
EXYS5

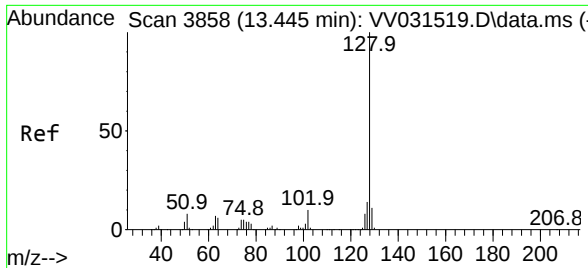
Tgt Ion:105 Resp: 4540206
Ion Ratio Lower Upper
105 100
120 42.9 33.4 50.2



#67
1,2-Dichlorobenzene
Concen: 21.303 ug/L
RT: 11.587 min Scan# 3280
Delta R.T. 0.003 min
Lab File: VV031527.D
Acq: 15 Jun 2023 13:41

Tgt Ion:146 Resp: 98144
Ion Ratio Lower Upper
146 100
111 44.4 35.9 53.9
148 62.2 52.6 78.8





#71
Naphthalene
Concen: 59.450 ug/L
RT: 13.445 min Scan# 3858
Delta R.T. 0.000 min
Lab File: VV031527.D
Acq: 15 Jun 2023 13:41

Instrument :
MSVOA_V
ClientSampleId :
EXYS5

Tgt Ion:128 Resp: 459089
Ion Ratio Lower Upper
128 100
127 13.0 10.6 16.0
129 11.0 8.6 13.0

