

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092624\
 Data File : VV037554.D
 Acq On : 26 Sep 2024 17:33
 Operator : SY/MD
 Sample : P4184-03
 Misc : 5mL/MSVOA_V/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Sep 27 00:53:28 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM092624WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Sep 27 00:49:09 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.529	114	709056	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.780	117	680225	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.178	152	365062	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.278	65	282747	45.426	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	90.860%
7) Chloroethane-d5	1.452	69	109	0.023	ug/L	-0.08
Spiked Amount	50.000	Range	70 - 130	Recovery	=	0.040%#
11) 1,1-Dichloroethene-d2	2.060	65	116183	44.677	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	89.360%
21) 2-Butanone-d5	3.789	46	216449	97.631	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	97.630%
24) Chloroform-d	4.243	84	464494	41.945	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	83.880%
26) 1,2-Dichloroethane-d4	4.937	65	280004	43.198	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	86.400%
32) Benzene-d6	4.953	84	931393	43.757	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.520%
36) 1,2-Dichloropropane-d6	5.982	67	292795	43.198	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	86.400%
41) Toluene-d8	7.236	98	831947	43.104	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	86.200%
43) trans-1,3-Dichloroprop...	7.548	79	133625	42.439	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	84.880%
47) 2-Hexanone-d5	8.024	63	140054	97.856	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	97.860%
56) 1,1,2,2-Tetrachloroeth...	10.146	84	350968	44.565	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	89.120%
66) 1,2-Dichlorobenzene-d4	11.554	152	340694	44.289	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	88.580%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.281	62	766541	122.010	ug/L	100
8) Chloroethane	1.548	64	2195677	567.018	ug/L	98
12) 1,1-Dichloroethene	2.069	96	17068	3.616	ug/L #	1
17) trans-1,2-Dichloroethene	2.690	96	40170	8.044	ug/L	98
19) 1,1-Dichloroethane	3.104	63	5003569	522.942	ug/L	99
20) cis-1,2-Dichloroethene	3.805	96	1849121	330.885	ug/L	99
27) 1,2-Dichloroethane	5.050	62	22529	3.221	ug/L	96
30) 1,1,1-Trichloroethane	4.503	97	152032	18.147	ug/L	99
31) Carbon tetrachloride	4.510	117	19292	2.649	ug/L	93
33) Benzene	5.008	78	28871	1.407	ug/L	100
34) Trichloroethene	5.828	95	269647	49.356	ug/L	100
39) cis-1,3-Dichloropropene	6.911	75	8463	1.001	ug/L #	51
42) Toluene	7.313	91	383538	18.034	ug/L	99
46) Tetrachloroethene	7.905	164	10834	2.594	ug/L	93
49) Dibromochloromethane	7.905	129	9618	1.787	ug/L #	10
52) Ethylbenzene	8.940	91	1872912	78.234	ug/L	99
53) m,p-Xylene	9.066	106	1135870	127.487	ug/L	100
54) o-Xylene	9.471	106	573117	65.888	ug/L	95
55) Styrene	9.471	104	29246	1.931	ug/L #	1

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Quant Title : VOC Analysis
QLast Update : Fri Sep 27 00:49:09 2024
Response via : Initial Calibration

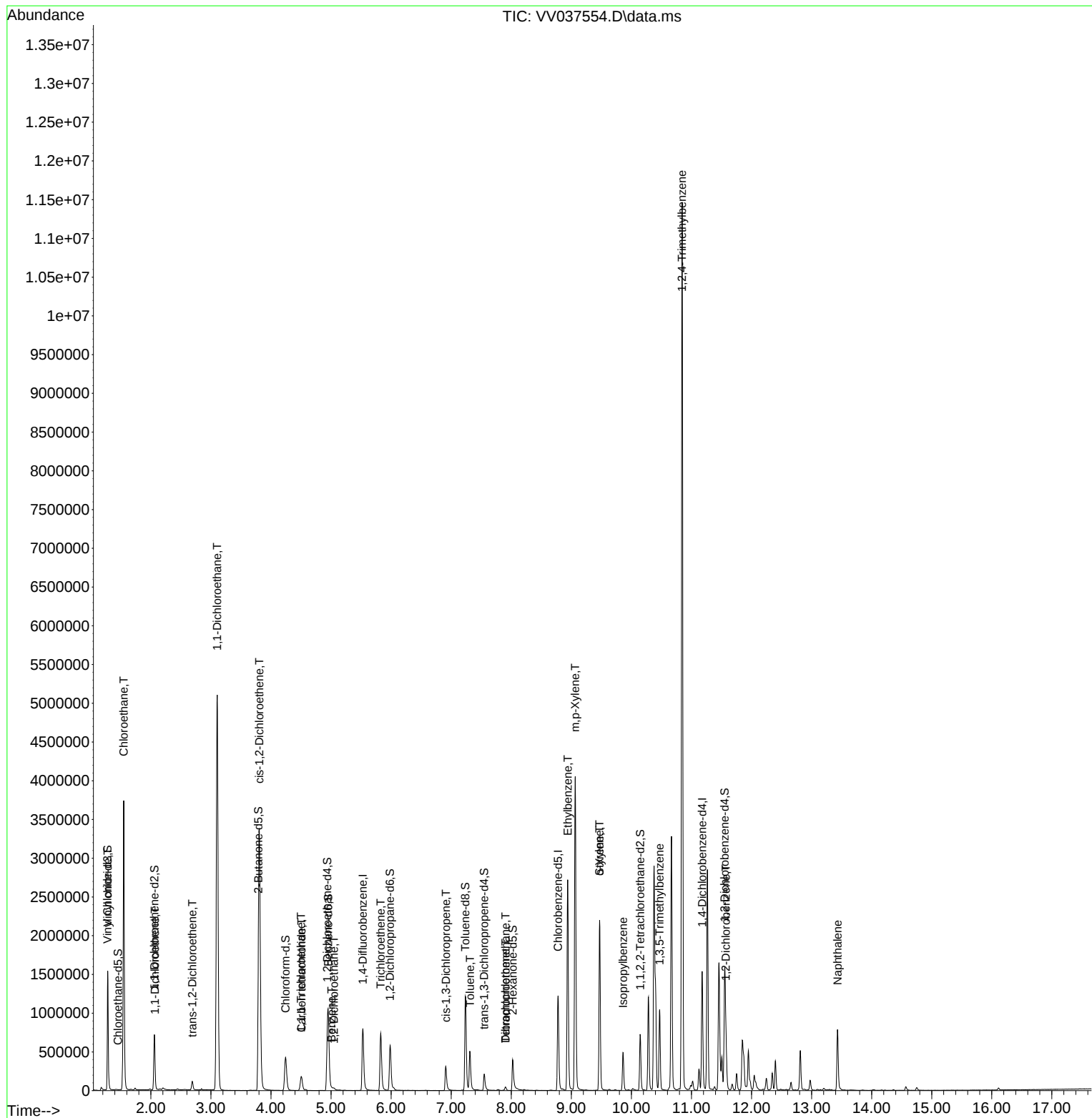
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
60) Isopropylbenzene	9.863	105	321492	13.546	ug/L	99
62) 1,3,5-Trimethylbenzene	10.471	105	554996	29.577	ug/L	99
63) 1,2,4-Trimethylbenzene	10.844	105	6040035	323.516	ug/L	99
67) 1,2-Dichlorobenzene	11.574	146	154627	13.692	ug/L	98
71) Naphthalene	13.432	128	645953	33.920	ug/L	100

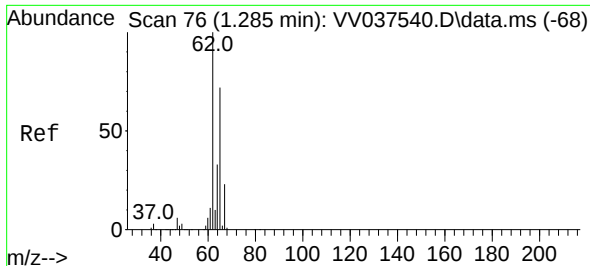
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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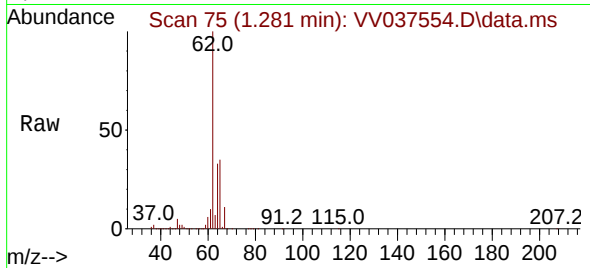


#5
 Vinyl chloride
 Concen: 122.010 ug/L
 RT: 1.281 min Scan# 76
 Delta R.T. -0.003 min
 Lab File: VV037554.D
 Acq: 26 Sep 2024 17:33

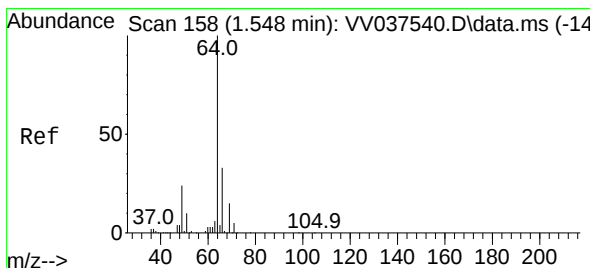
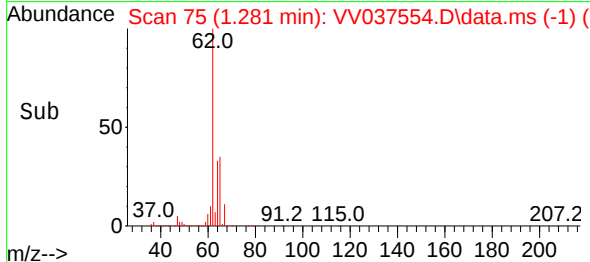
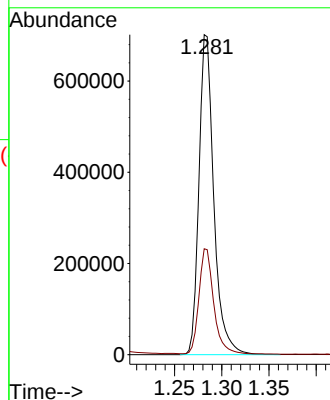
Instrument :

MSVOA_V

ClientSampleId :

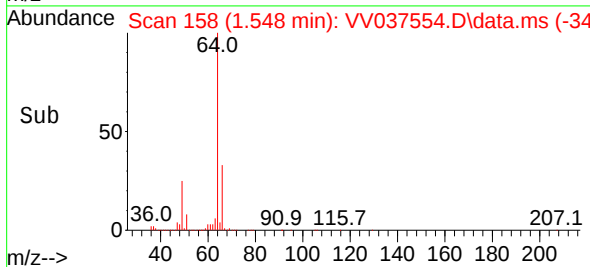
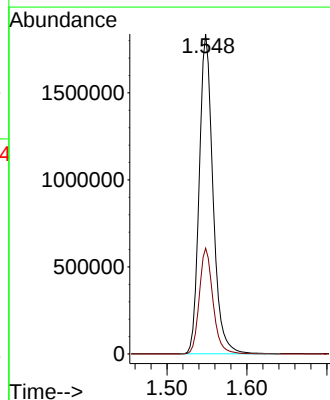
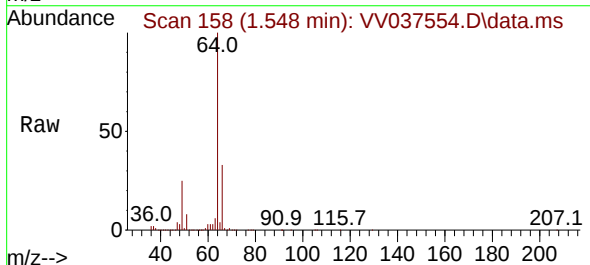


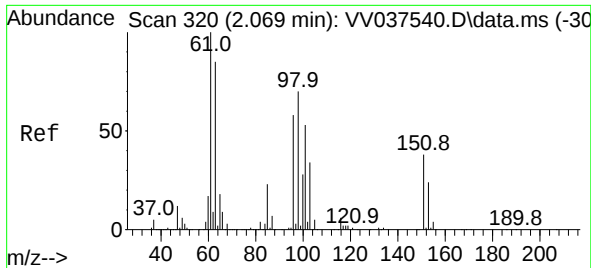
Tgt Ion: 62 Resp: 766541
 Ion Ratio Lower Upper
 62 100
 64 33.1 23.2 43.0



#8
 Chloroethane
 Concen: 567.018 ug/L
 RT: 1.548 min Scan# 158
 Delta R.T. -0.000 min
 Lab File: VV037554.D
 Acq: 26 Sep 2024 17:33

Tgt Ion: 64 Resp: 2195677
 Ion Ratio Lower Upper
 64 100
 66 33.1 22.2 41.2





#12

1,1-Dichloroethene

Concen: 3.616 ug/L

RT: 2.069 min Scan# 31

Delta R.T. -0.000 min

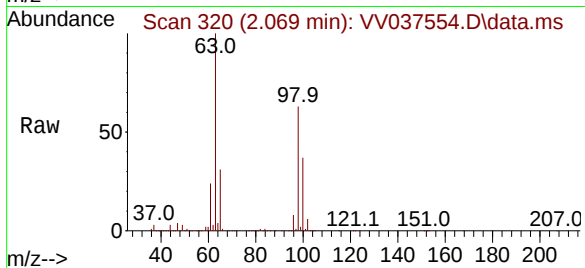
Lab File: VV037554.D

Acq: 26 Sep 2024 17:33

Instrument :

MSVOA_V

ClientSampleId :



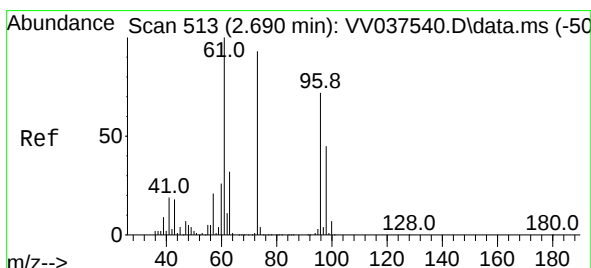
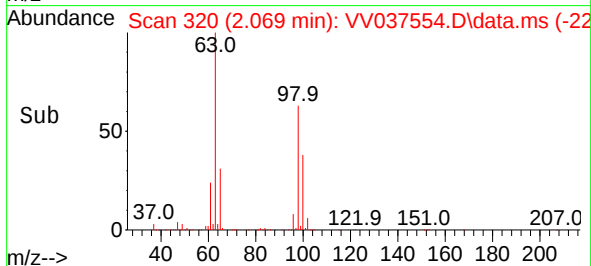
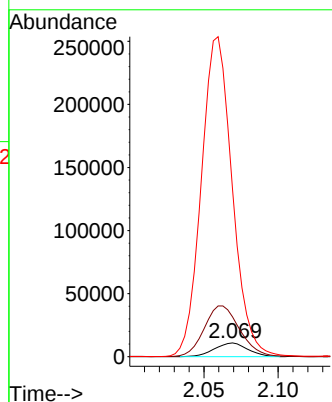
Tgt Ion: 96 Resp: 17068

Ion Ratio Lower Upper

96 100

61 290.4 122.6 227.6#

63 1219.1 118.0 219.2#



#17

trans-1,2-Dichloroethene

Concen: 8.044 ug/L

RT: 2.690 min Scan# 513

Delta R.T. -0.000 min

Lab File: VV037554.D

Acq: 26 Sep 2024 17:33

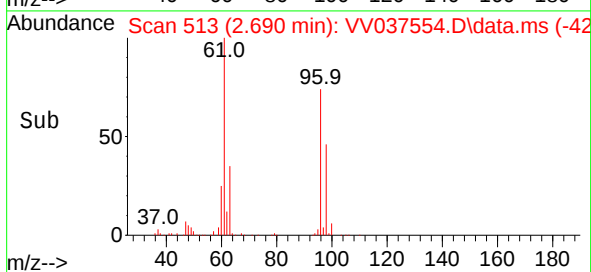
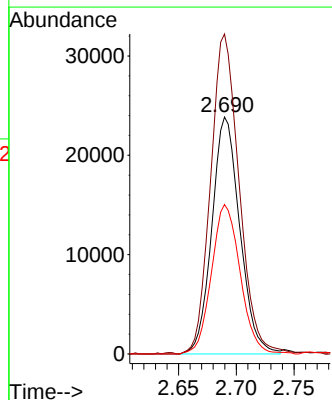
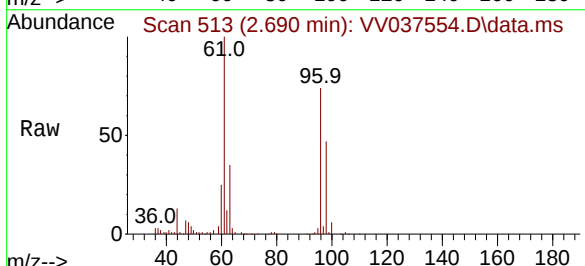
Tgt Ion: 96 Resp: 40170

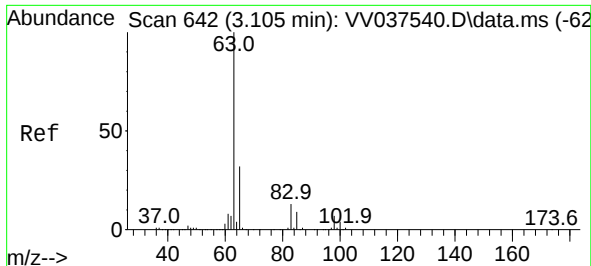
Ion Ratio Lower Upper

96 100

61 135.0 97.3 180.7

98 63.1 43.9 81.5

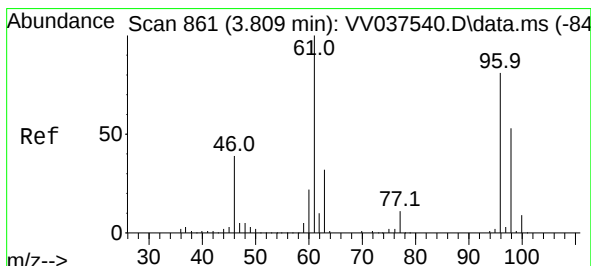
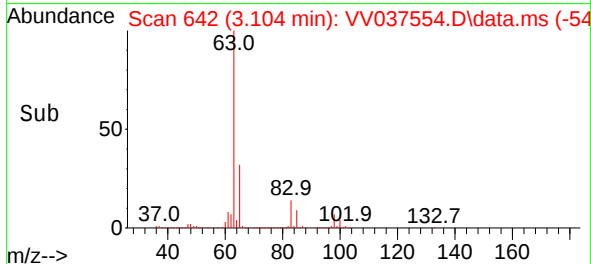
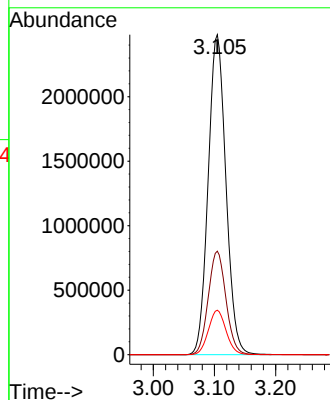
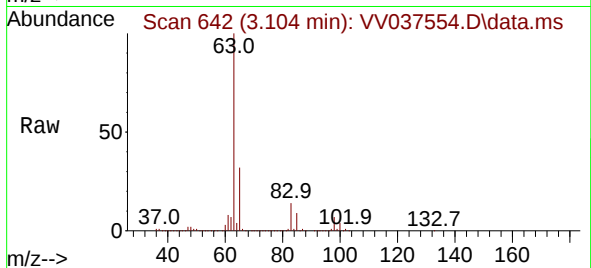




#19
1,1-Dichloroethane
Concen: 522.942 ug/L
RT: 3.104 min Scan# 64
Delta R.T. -0.000 min
Lab File: VV037554.D
Acq: 26 Sep 2024 17:33

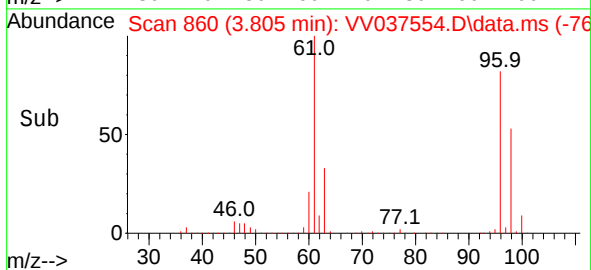
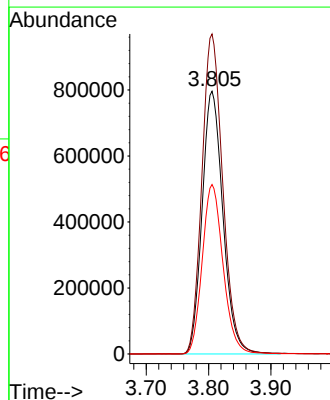
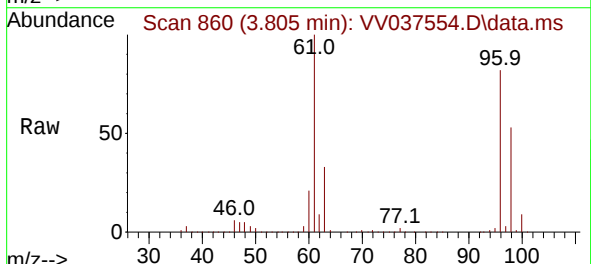
Instrument :
MSVOA_V
ClientSampleId :

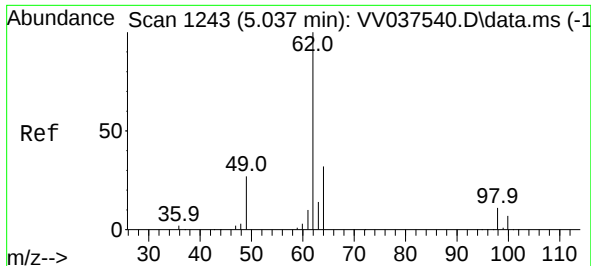
Tgt Ion: 63 Resp: 5003569
Ion Ratio Lower Upper
63 100
65 32.4 22.4 41.6
83 13.9 9.5 17.7



#20
cis-1,2-Dichloroethene
Concen: 330.885 ug/L
RT: 3.805 min Scan# 860
Delta R.T. -0.003 min
Lab File: VV037554.D
Acq: 26 Sep 2024 17:33

Tgt Ion: 96 Resp: 1849121
Ion Ratio Lower Upper
96 100
61 121.8 85.0 157.8
98 64.5 44.2 82.0

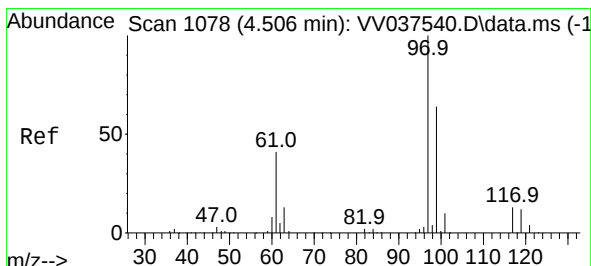
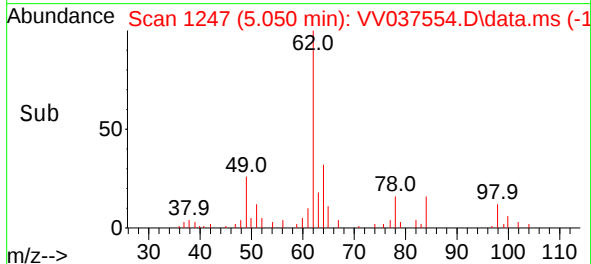
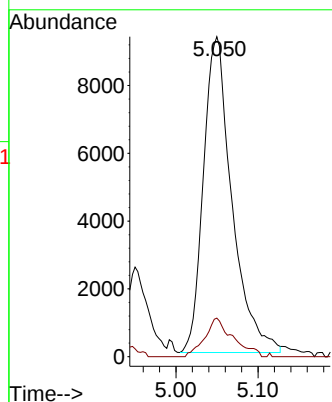
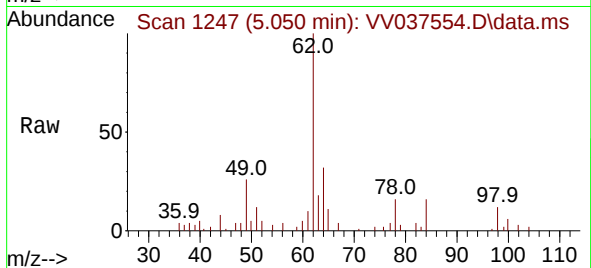




#27
1,2-Dichloroethane
Concen: 3.221 ug/L
RT: 5.050 min Scan# 11
Delta R.T. 0.013 min
Lab File: VV037554.D
Acq: 26 Sep 2024 17:33

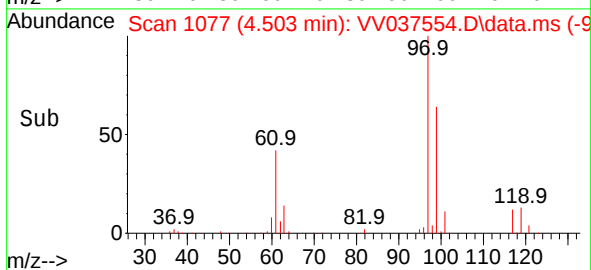
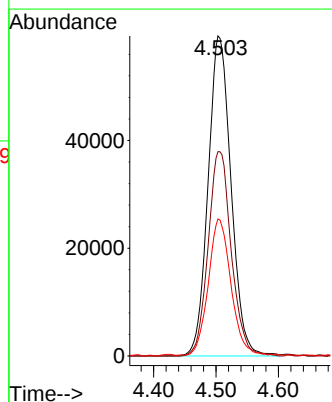
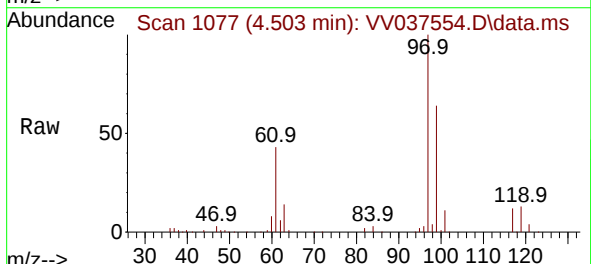
Instrument :
MSVOA_V
ClientSampleId :

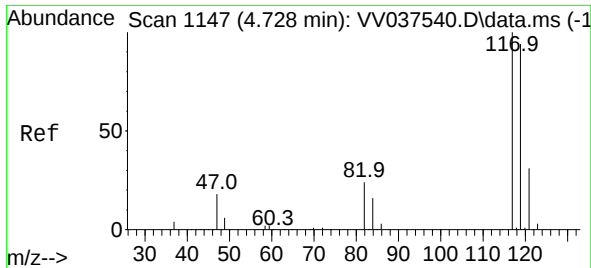
Tgt Ion: 62 Resp: 22529
Ion Ratio Lower Upper
62 100
98 12.1 8.4 12.6



#30
1,1,1-Trichloroethane
Concen: 18.147 ug/L
RT: 4.503 min Scan# 1077
Delta R.T. -0.003 min
Lab File: VV037554.D
Acq: 26 Sep 2024 17:33

Tgt Ion: 97 Resp: 152032
Ion Ratio Lower Upper
97 100
99 64.2 51.8 77.6
61 41.4 33.6 50.4

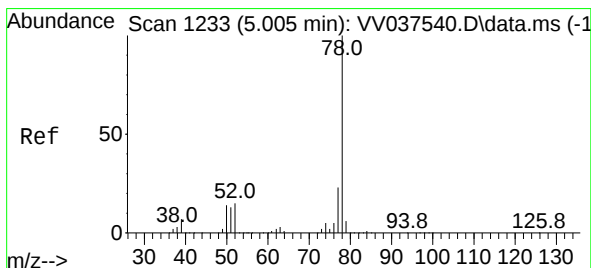
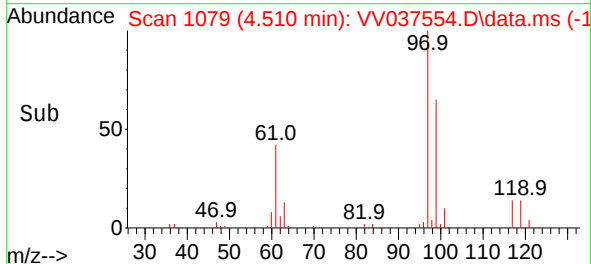
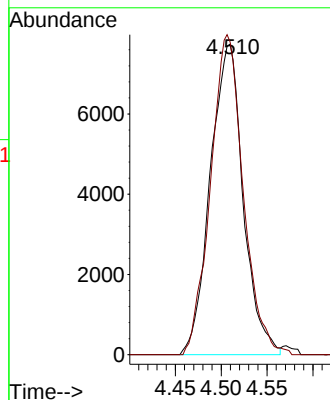
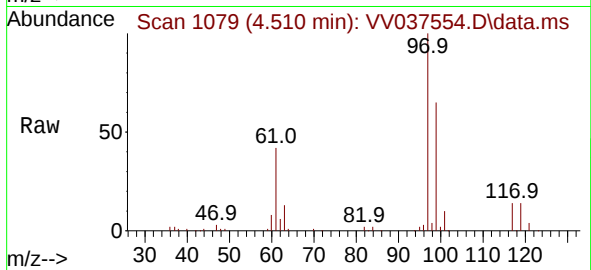




#31
Carbon tetrachloride
Concen: 2.649 ug/L
RT: 4.510 min Scan# 1147
Delta R.T. -0.219 min
Lab File: VV037554.D
Acq: 26 Sep 2024 17:33

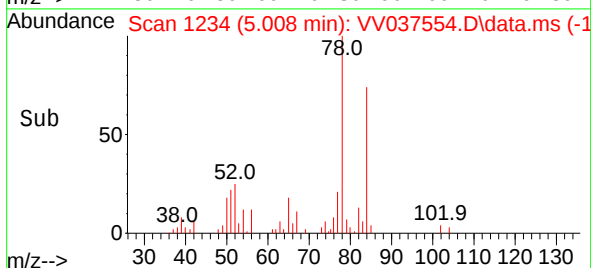
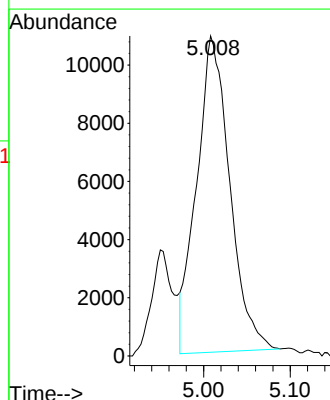
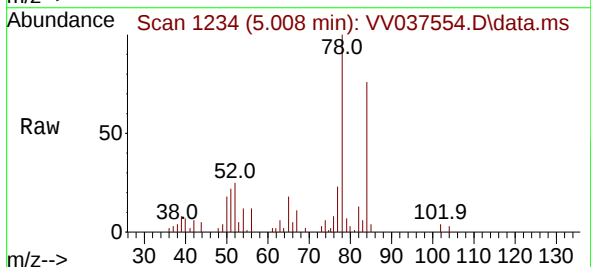
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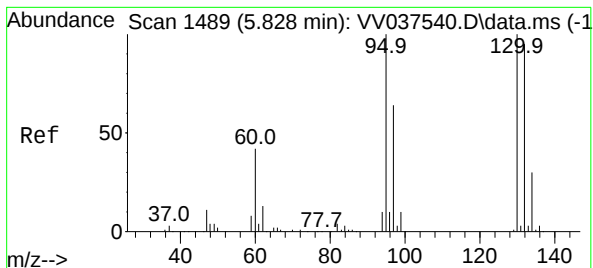
Tgt Ion:117 Resp: 19292
Ion Ratio Lower Upper
117 100
119 102.5 76.9 115.3



#33
Benzene
Concen: 1.407 ug/L
RT: 5.008 min Scan# 1234
Delta R.T. 0.003 min
Lab File: VV037554.D
Acq: 26 Sep 2024 17:33

Tgt Ion: 78 Resp: 28871





#34

Trichloroethene

Concen: 49.356 ug/L

RT: 5.828 min Scan# 1489

Delta R.T. -0.000 min

Lab File: VV037554.D

Acq: 26 Sep 2024 17:33

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 95 Resp: 269647

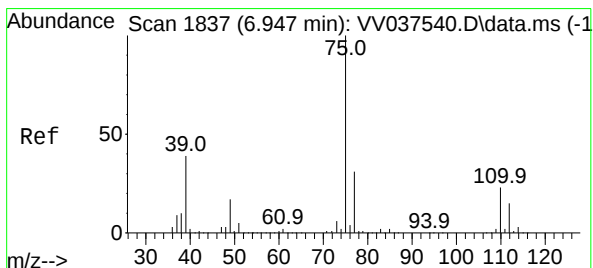
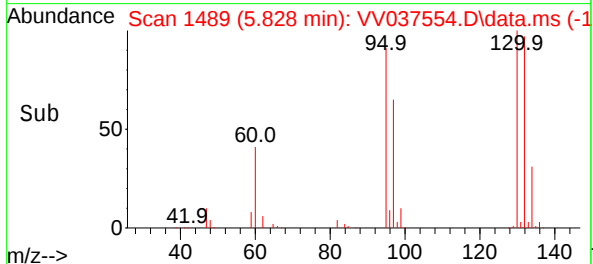
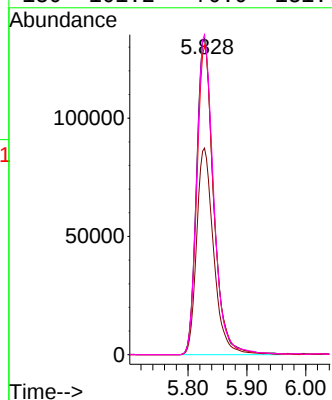
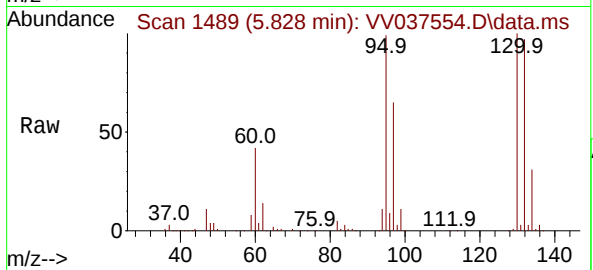
Ion Ratio Lower Upper

95 100

97 65.3 46.3 85.9

132 97.9 68.6 127.4

130 101.2 70.9 131.7



#39

cis-1,3-Dichloropropene

Concen: 1.001 ug/L

RT: 6.911 min Scan# 1826

Delta R.T. -0.035 min

Lab File: VV037554.D

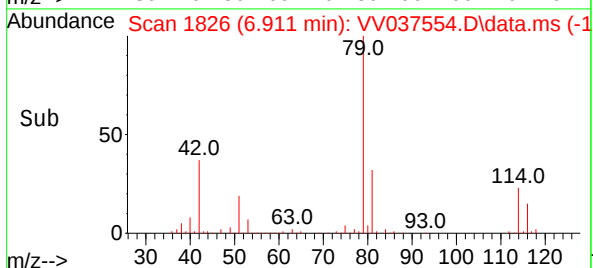
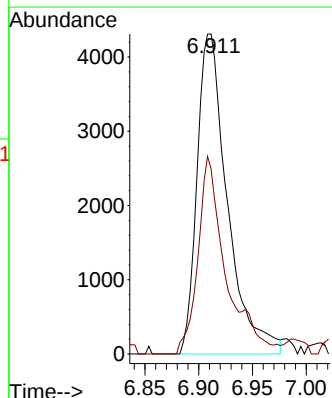
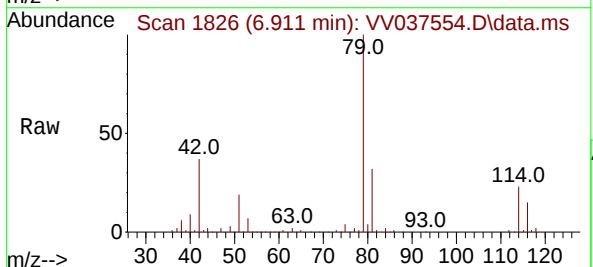
Acq: 26 Sep 2024 17:33

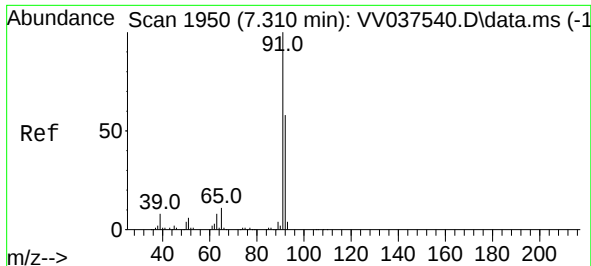
Tgt Ion: 75 Resp: 8463

Ion Ratio Lower Upper

75 100

77 57.9 21.8 40.4#





#42

Toluene

Concen: 18.034 ug/L

RT: 7.313 min Scan# 1950

Delta R.T. 0.003 min

Lab File: VV037554.D

Acq: 26 Sep 2024 17:33

Instrument :

MSVOA_V

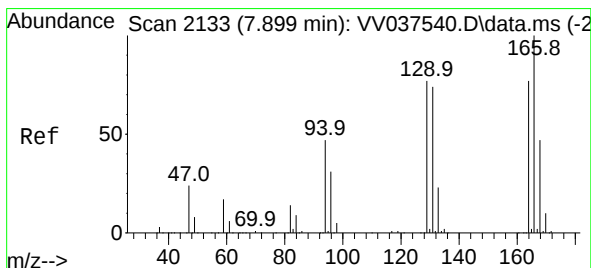
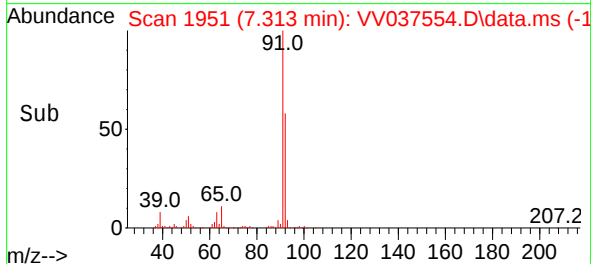
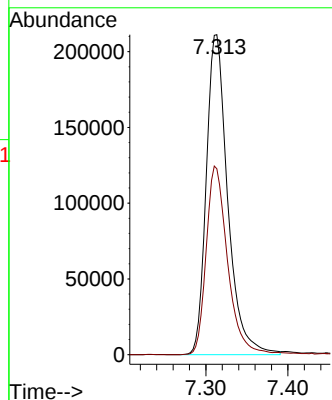
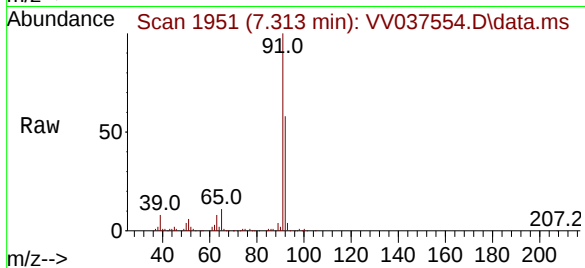
ClientSampleId :

Tgt Ion: 91 Resp: 383538

Ion Ratio Lower Upper

91 100

92 58.1 41.1 76.3



#46

Tetrachloroethene

Concen: 2.594 ug/L

RT: 7.905 min Scan# 2135

Delta R.T. 0.006 min

Lab File: VV037554.D

Acq: 26 Sep 2024 17:33

Tgt Ion: 164 Resp: 10834

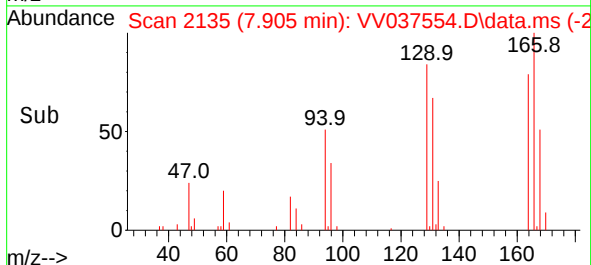
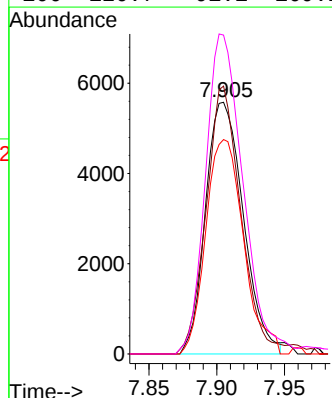
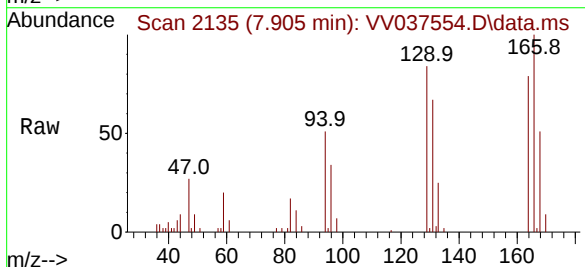
Ion Ratio Lower Upper

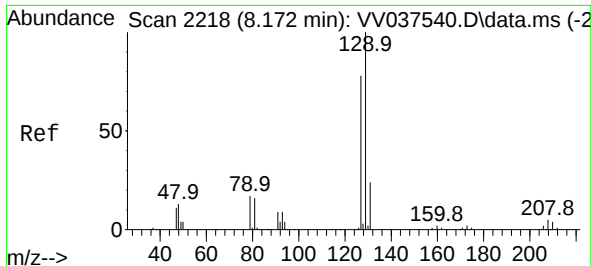
164 100

129 106.5 68.2 126.6

131 85.2 66.1 122.8

166 126.7 91.1 169.1





#49

Dibromochloromethane

Concen: 1.787 ug/L

RT: 7.905 min Scan# 2135

Delta R.T. -0.267 min

Lab File: VV037554.D

Acq: 26 Sep 2024 17:33

Instrument :

MSVOA_V

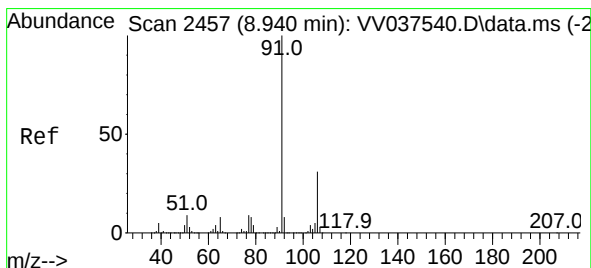
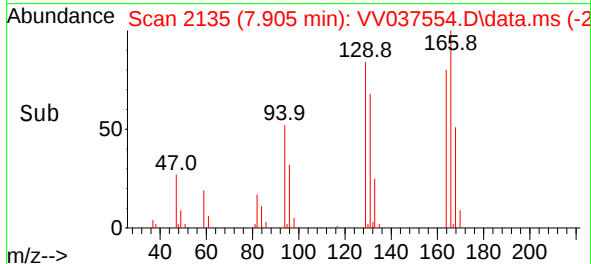
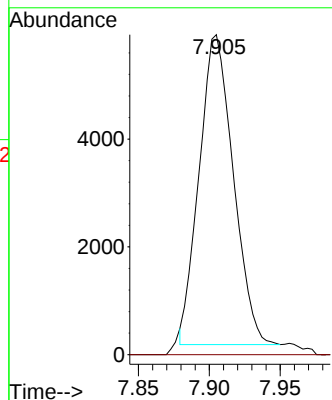
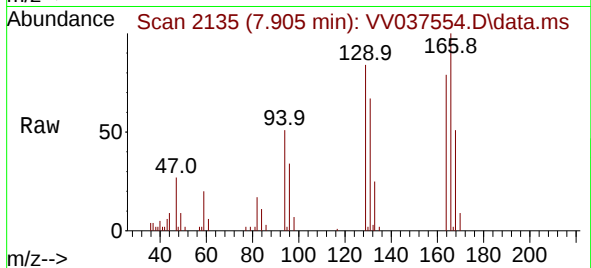
ClientSampleId :

Tgt Ion:129 Resp: 9618

Ion Ratio Lower Upper

129 100

127 0.0 54.9 101.9#



#52

Ethylbenzene

Concen: 78.234 ug/L

RT: 8.940 min Scan# 2457

Delta R.T. -0.000 min

Lab File: VV037554.D

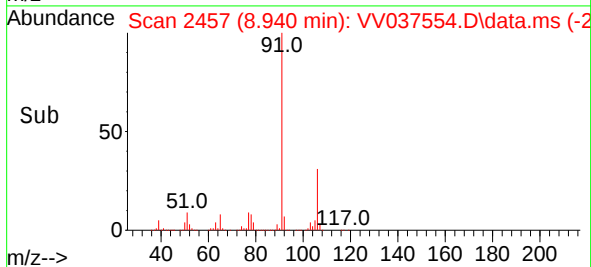
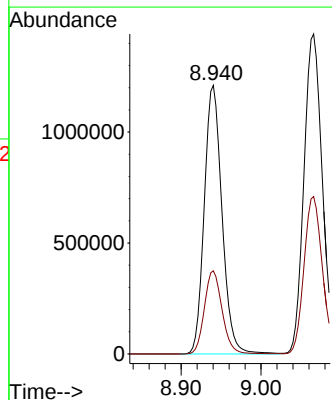
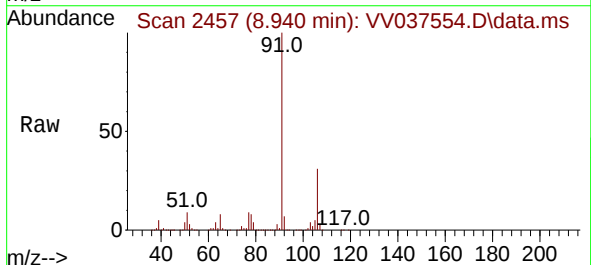
Acq: 26 Sep 2024 17:33

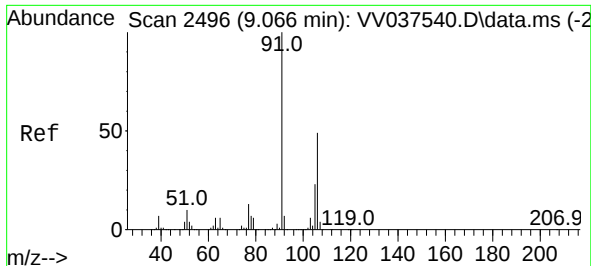
Tgt Ion: 91 Resp: 1872912

Ion Ratio Lower Upper

91 100

106 31.0 21.9 40.7





#53

m,p-Xylene

Concen: 127.487 ug/L

RT: 9.066 min Scan# 2496

Delta R.T. -0.000 min

Lab File: VV037554.D

Acq: 26 Sep 2024 17:33

Instrument :

MSVOA_V

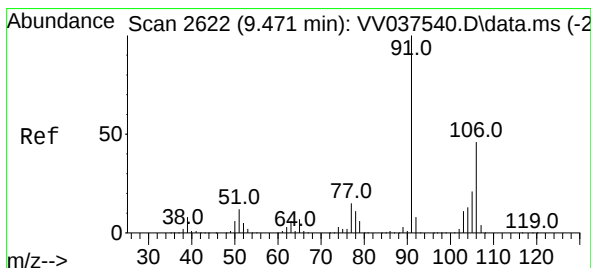
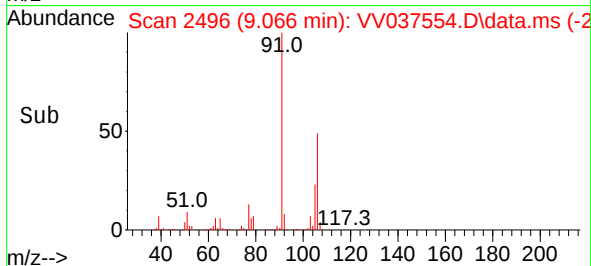
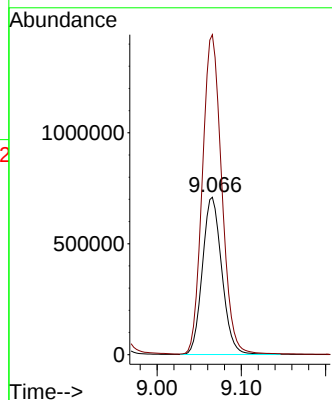
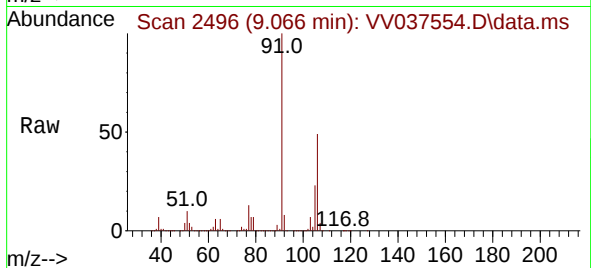
ClientSampleId :

Tgt Ion:106 Resp: 1135870

Ion Ratio Lower Upper

106 100

91 203.2 142.0 263.6



#54

o-Xylene

Concen: 65.888 ug/L

RT: 9.471 min Scan# 2622

Delta R.T. -0.000 min

Lab File: VV037554.D

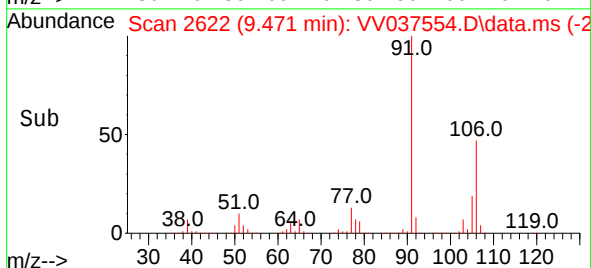
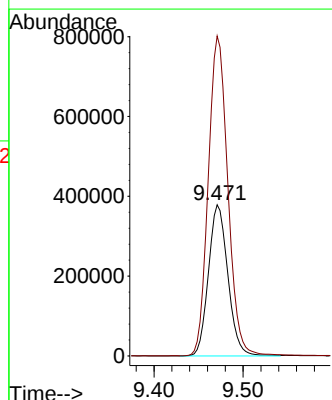
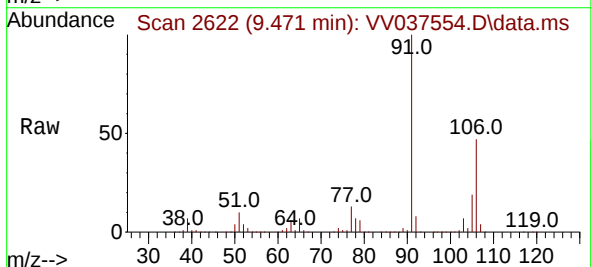
Acq: 26 Sep 2024 17:33

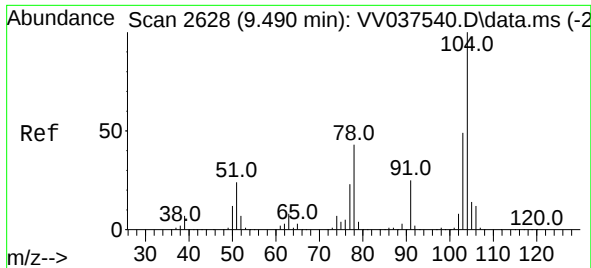
Tgt Ion:106 Resp: 573117

Ion Ratio Lower Upper

106 100

91 211.7 153.9 285.9

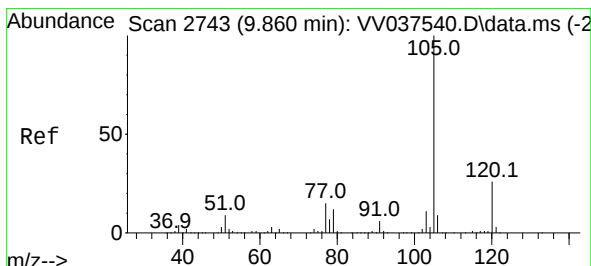
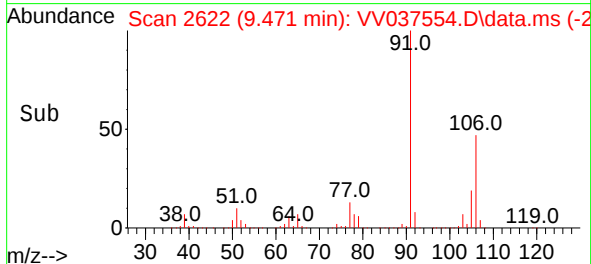
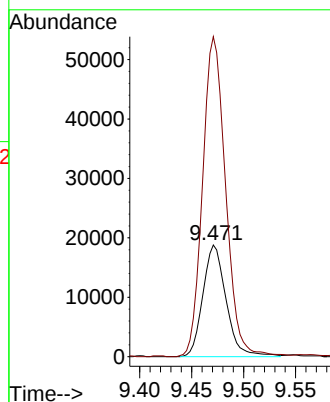
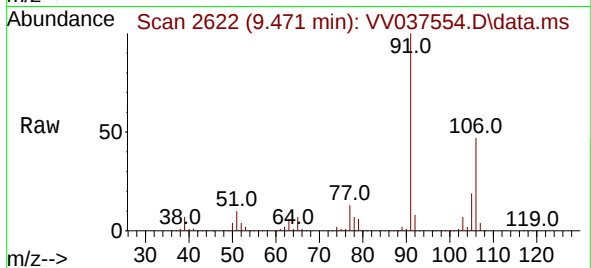




#55
Styrene
Concen: 1.931 ug/L
RT: 9.471 min Scan# 20
Delta R.T. -0.019 min
Lab File: VV037554.D
Acq: 26 Sep 2024 17:33

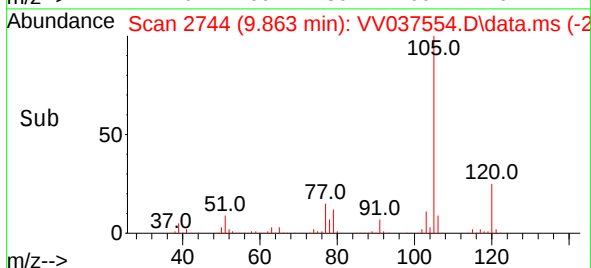
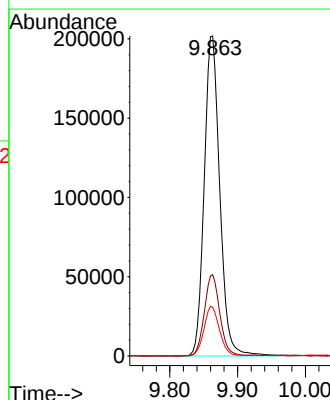
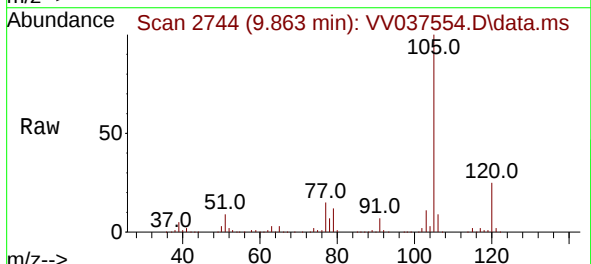
Instrument :
MSVOA_V
ClientSampleId :

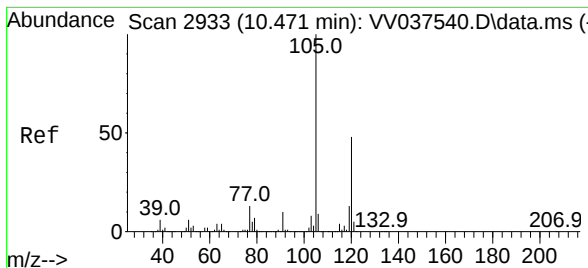
Tgt Ion:104 Resp: 29246
Ion Ratio Lower Upper
104 100
78 286.3 30.0 55.6#



#60
Isopropylbenzene
Concen: 13.546 ug/L
RT: 9.863 min Scan# 2744
Delta R.T. 0.003 min
Lab File: VV037554.D
Acq: 26 Sep 2024 17:33

Tgt Ion:105 Resp: 321492
Ion Ratio Lower Upper
105 100
120 25.2 20.7 31.1
77 15.3 12.2 18.2

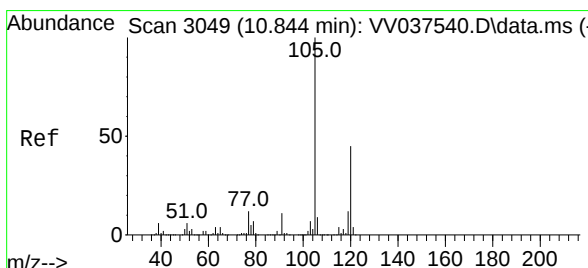
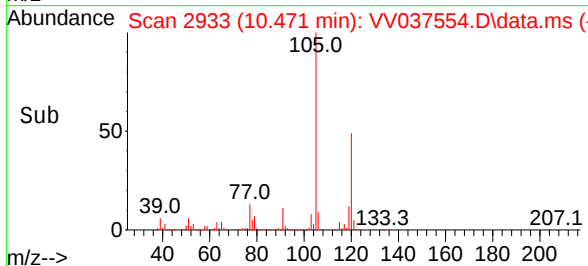
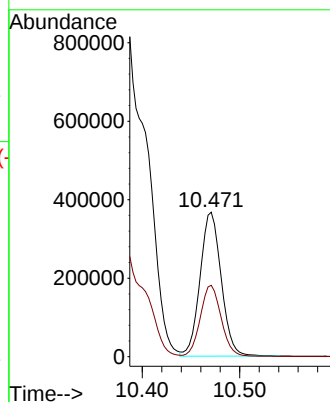
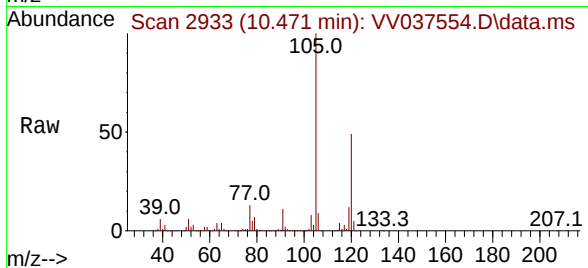




#62
 1,3,5-Trimethylbenzene
 Concen: 29.577 ug/L
 RT: 10.471 min Scan# 2933
 Delta R.T. -0.000 min
 Lab File: VV037554.D
 Acq: 26 Sep 2024 17:33

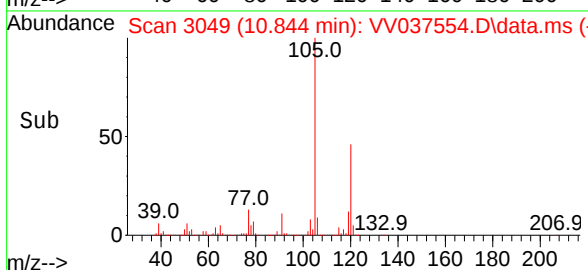
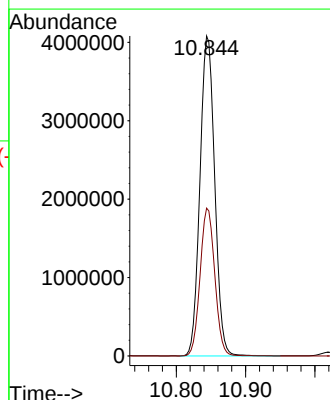
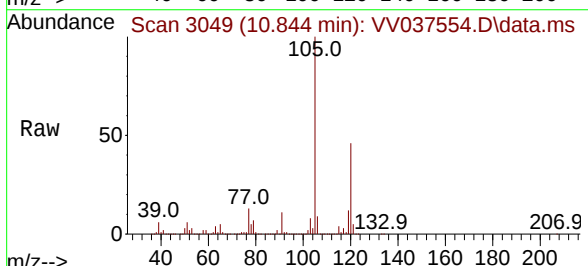
Instrument :
 MSVOA_V
 ClientSampleId :

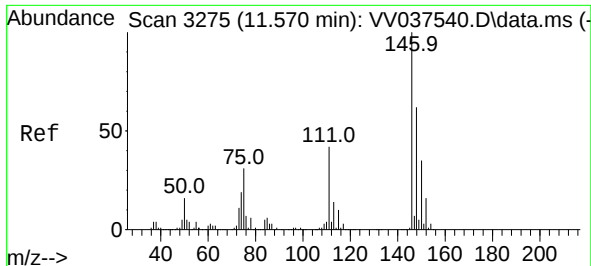
Tgt Ion:105 Resp: 554996
 Ion Ratio Lower Upper
 105 100
 120 48.7 39.3 58.9



#63
 1,2,4-Trimethylbenzene
 Concen: 323.516 ug/L
 RT: 10.844 min Scan# 3049
 Delta R.T. -0.000 min
 Lab File: VV037554.D
 Acq: 26 Sep 2024 17:33

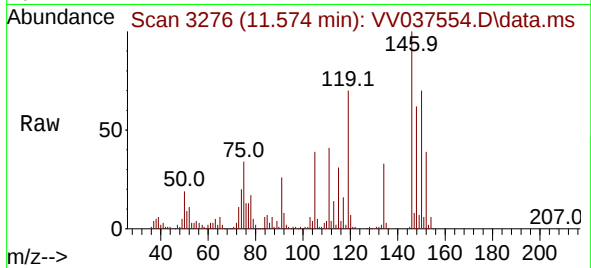
Tgt Ion:105 Resp: 6040035
 Ion Ratio Lower Upper
 105 100
 120 45.9 36.2 54.2



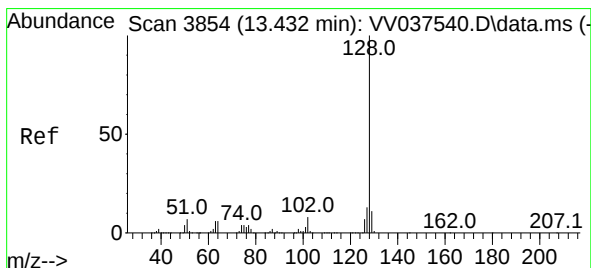
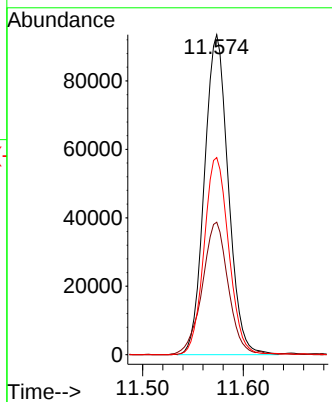
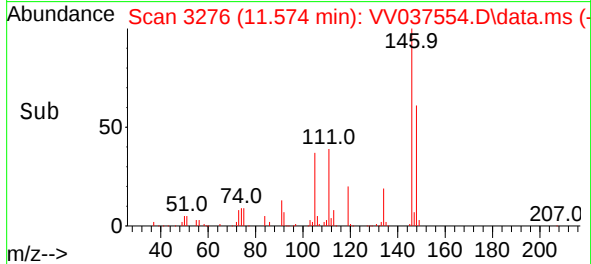


#67
1,2-Dichlorobenzene
Concen: 13.692 ug/L
RT: 11.574 min Scan# 31
Delta R.T. 0.003 min
Lab File: VV037554.D
Acq: 26 Sep 2024 17:33

Instrument :
MSVOA_V
ClientSampleId :



Tgt Ion:146 Resp: 154627
Ion Ratio Lower Upper
146 100
111 41.4 34.2 51.2
148 61.6 50.9 76.3



#71
Naphthalene
Concen: 33.920 ug/L
RT: 13.432 min Scan# 3854
Delta R.T. -0.000 min
Lab File: VV037554.D
Acq: 26 Sep 2024 17:33

Tgt Ion:128 Resp: 645953
Ion Ratio Lower Upper
128 100
127 12.8 10.2 15.4
129 10.9 8.5 12.7

