

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV091924\
 Data File : VV037406.D
 Acq On : 20 Sep 2024 01:30
 Operator : SY/MD
 Sample : P3994-05
 Misc : 25mL/MSVOA_V/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Sep 20 04:17:04 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR091024WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Sep 20 03:11:07 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	5.532	114	308575	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.779	117	318955	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.181	152	152916	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.275	65	63976	3.534	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	70.600%
7) Chloroethane-d5	1.529	69	80212	4.250	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	85.000%
11) 1,1-Dichloroethene-d2	2.053	65	37034	3.961	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	79.200%
20) 2-Butanone-d5	3.796	46	295937	54.699	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	109.400%
24) Chloroform-d	4.243	84	213588	4.859	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.200%
26) 1,2-Dichloroethane-d4	4.937	65	103220	5.015	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.400%
32) Benzene-d6	4.956	84	377996	4.420	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.400%
36) 1,2-Dichloropropane-d6	5.989	67	131997	4.963	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	99.200%
41) Toluene-d8	7.239	98	310141	4.025	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	80.600%
43) trans-1,3-Dichloroprop...	7.558	79	30191	3.451	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	69.000%
46) 2-Hexanone-d5	8.024	63	236733	55.388	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	110.780%
56) 1,1,2,2-Tetrachloroeth...	10.149	84	109761	5.064	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	101.200%
66) 1,2-Dichlorobenzene-d4	11.554	152	134107	4.933	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	98.600%
Target Compounds						
						Qvalue
5) Vinyl chloride	1.278	62	44761	1.489	ug/L #	73
8) Chloroethane	1.323	64	390711	21.616	ug/L #	51
10) 1,1,2-Trichloro-1,2,2-...	2.063	101	80824	3.569	ug/L	99
12) 1,1-Dichloroethene	2.066	96	653633	30.227	ug/L #	76
14) Carbon disulfide	2.240	76	9452	0.139	ug/L #	91
17) Methyl tert-butyl Ether	2.706	73	17459	0.340	ug/L #	93
18) trans-1,2-Dichloroethene	2.690	96	91531	4.023	ug/L	99
19) 1,1-Dichloroethane	3.104	63	401146	9.234	ug/L	98
22) cis-1,2-Dichloroethene	3.802	96	4216013	171.413	ug/L	99
25) Chloroform	4.272	83	225850	5.160	ug/L	99
29) 1,1,1-Trichloroethane	4.513	97	8429	0.223	ug/L #	89
31) Carbon tetrachloride	4.731	117	10924	0.339	ug/L	94
33) Benzene	5.011	78	34423	0.358	ug/L	100
35) Methylcyclohexane	5.989	83	31500	0.800	ug/L #	19
37) 1,2-Dichloropropane	5.989	63	13190	0.539	ug/L #	89
45) 1,1,2-Trichloroethane	7.770	97	17602	1.006	ug/L	95
47) Tetrachloroethene	7.898	164	1059202	57.145	ug/L	99
48) 2-Hexanone	8.024	43	26799	2.619	ug/L #	72
49) Dibromochloromethane	7.898	129	984166	53.680	ug/L #	10

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR091024WMA.M
Quant Title : TRACE VOA SFAM1.0
QLast Update : Fri Sep 20 03:11:07 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) 1,1,2,2-Tetrachloroethane	10.172	83	6267	0.296	ug/L #	81
60) Isopropylbenzene	9.866	105	12980	0.127	ug/L #	93
61) 1,2,3-Trichloropropane	11.181	75	29147	2.095	ug/L #	57
65) 1,4-Dichlorobenzene	11.207	146	36812	0.742	ug/L	99
67) 1,2-Dichlorobenzene	11.574	146	156225	3.483	ug/L	97

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

Instrument :

MSVOA V

ClientSampleId :

Quant Time: Sep 20 04:17:04 2024

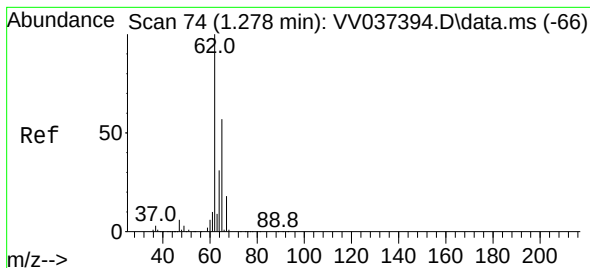
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR091024WMA.M

Quant Title : TRACE VOA SFAM1.0

QLast Update : Fri Sep 20 03:11:07 2024

Response via : Initial Calibration





#5

Vinyl chloride

Concen: 1.489 ug/L

RT: 1.278 min Scan# 74

Delta R.T. -0.000 min

Lab File: VV037406.D

Acq: 20 Sep 2024 01:30

Instrument :

MSVOA_V

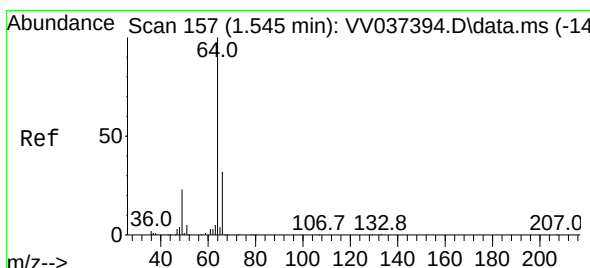
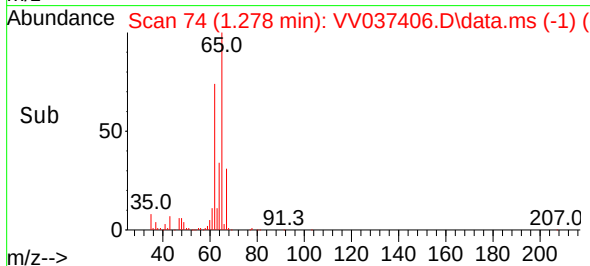
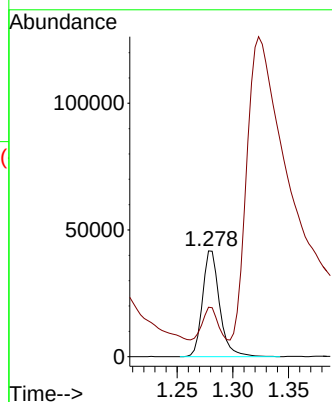
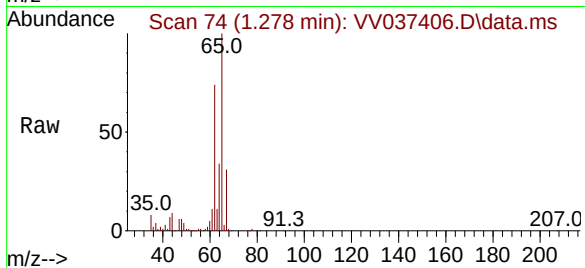
ClientSampleId :

Tgt Ion: 62 Resp: 44761

Ion Ratio Lower Upper

62 100

64 46.8 22.4 41.6#



#8

Chloroethane

Concen: 21.616 ug/L

RT: 1.323 min Scan# 88

Delta R.T. -0.222 min

Lab File: VV037406.D

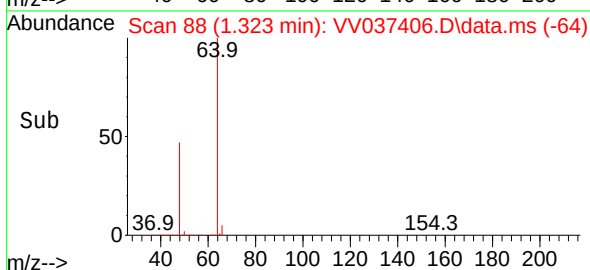
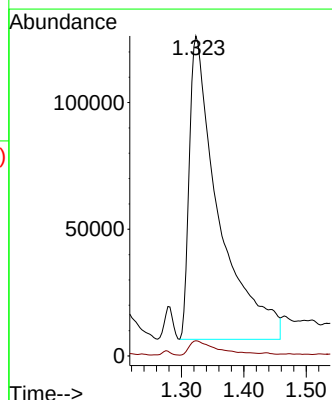
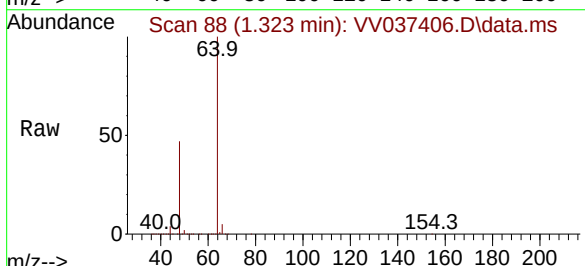
Acq: 20 Sep 2024 01:30

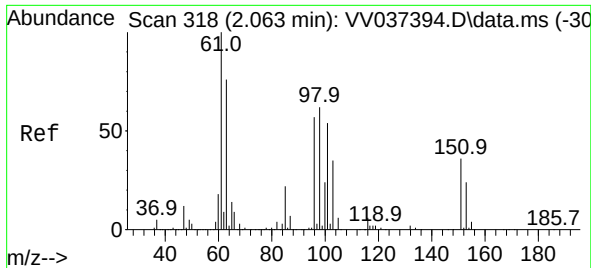
Tgt Ion: 64 Resp: 390711

Ion Ratio Lower Upper

64 100

66 4.8 22.7 42.1#

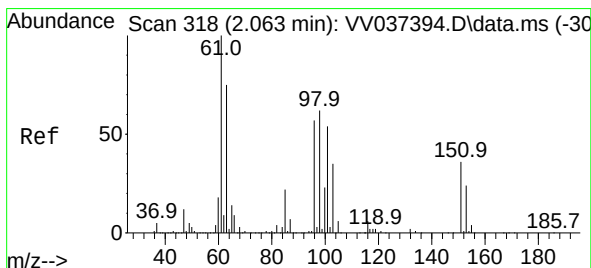
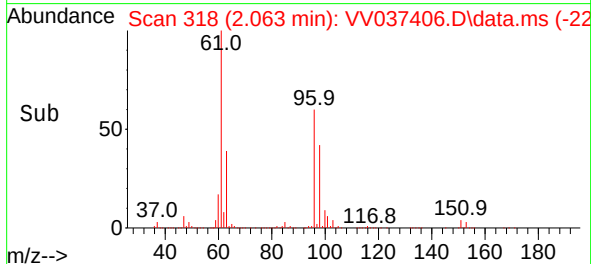
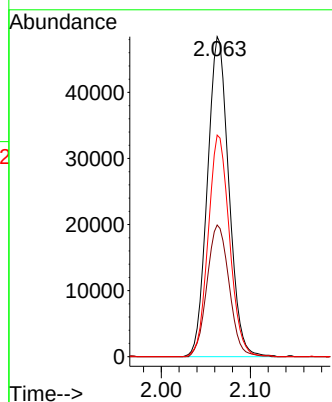
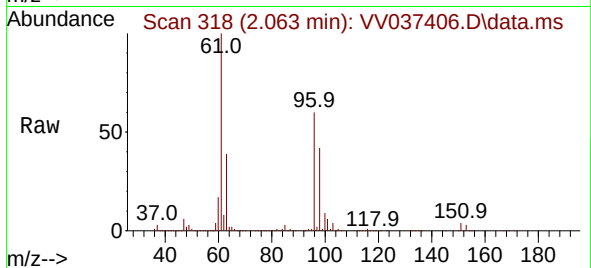




#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 3.569 ug/L
RT: 2.063 min Scan# 318
Delta R.T. -0.000 min
Lab File: VV037406.D
Acq: 20 Sep 2024 01:30

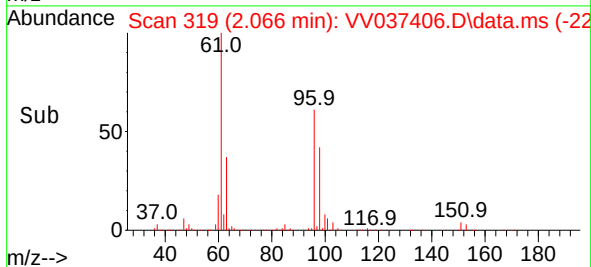
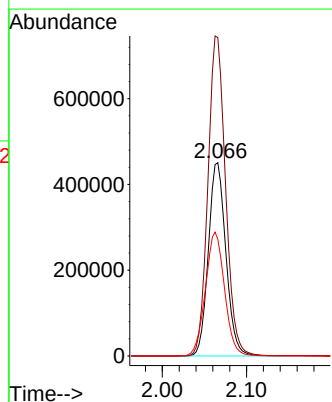
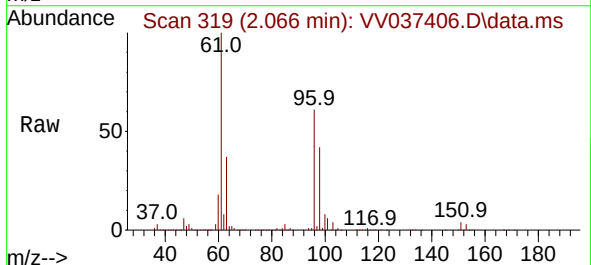
Instrument :
MSVOA_V
ClientSampleId :

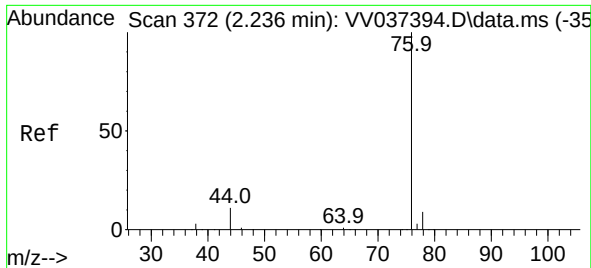
Tgt Ion:101 Resp: 80824
Ion Ratio Lower Upper
101 100
85 42.5 35.1 52.7
151 68.9 55.3 82.9



#12
1,1-Dichloroethene
Concen: 30.227 ug/L
RT: 2.066 min Scan# 319
Delta R.T. 0.003 min
Lab File: VV037406.D
Acq: 20 Sep 2024 01:30

Tgt Ion: 96 Resp: 653633
Ion Ratio Lower Upper
96 100
61 164.8 119.9 222.7
63 60.4 81.4 151.2#





#14

Carbon disulfide

Concen: 0.139 ug/L

RT: 2.240 min Scan# 31

Delta R.T. 0.003 min

Lab File: VV037406.D

Acq: 20 Sep 2024 01:30

Instrument :

MSVOA_V

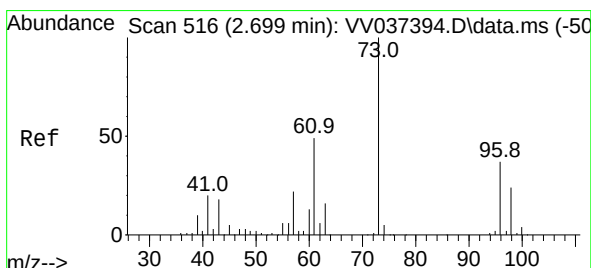
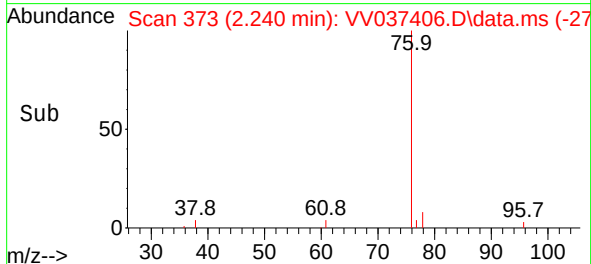
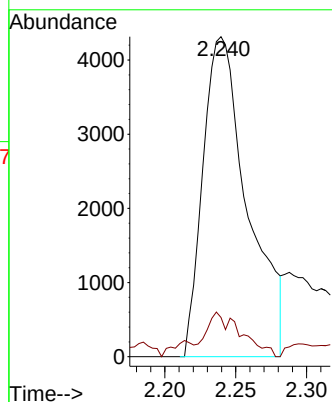
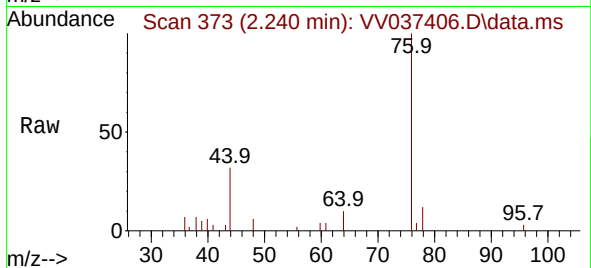
ClientSampleId :

Tgt Ion: 76 Resp: 9452

Ion Ratio Lower Upper

76 100

78 12.3 7.3 10.9#



#17

Methyl tert-butyl Ether

Concen: 0.340 ug/L

RT: 2.706 min Scan# 518

Delta R.T. 0.006 min

Lab File: VV037406.D

Acq: 20 Sep 2024 01:30

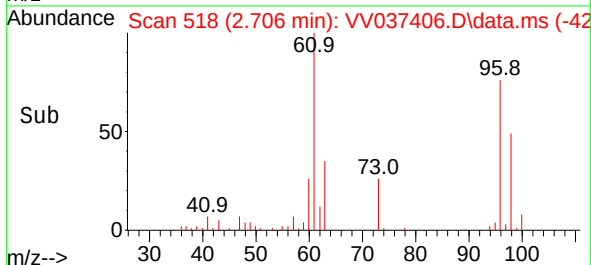
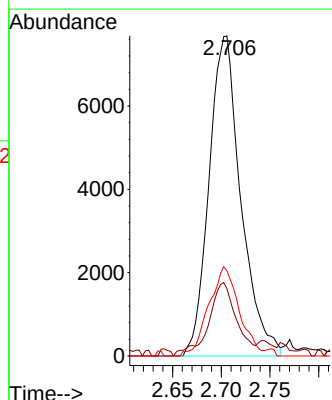
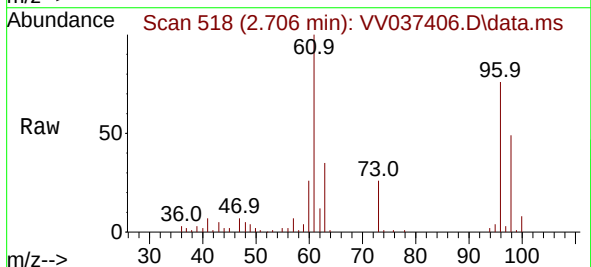
Tgt Ion: 73 Resp: 17459

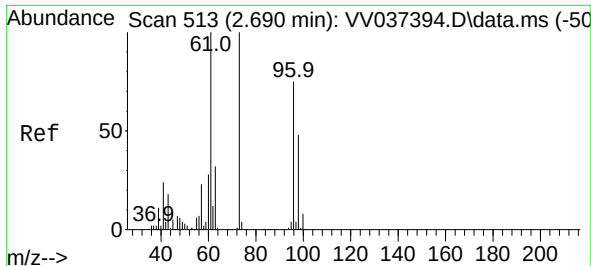
Ion Ratio Lower Upper

73 100

43 20.0 14.5 21.7

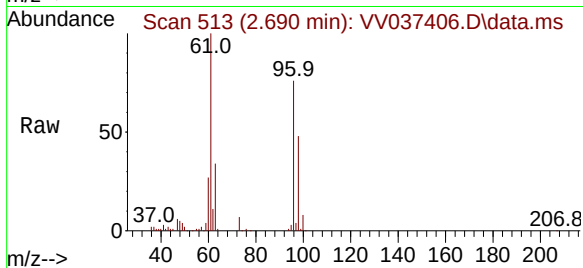
57 26.6 17.7 26.5#



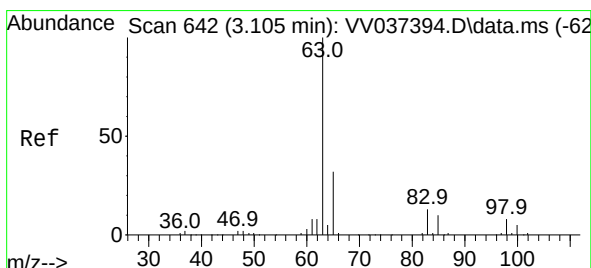
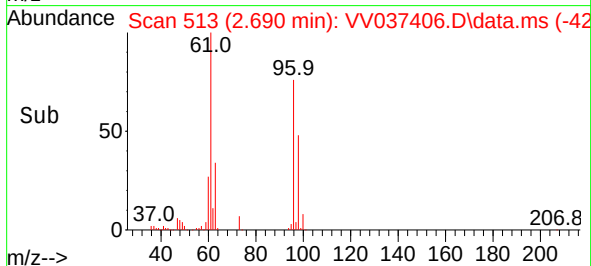
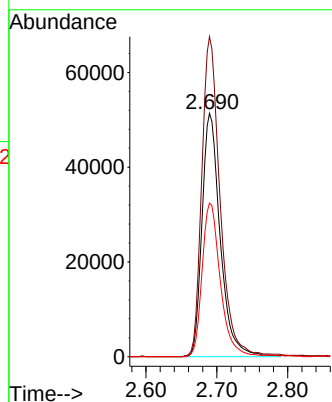


#18
trans-1,2-Dichloroethene
Concen: 4.023 ug/L
RT: 2.690 min Scan# 513
Delta R.T. -0.000 min
Lab File: VV037406.D
Acq: 20 Sep 2024 01:30

Instrument :
MSVOA_V
ClientSampleId :

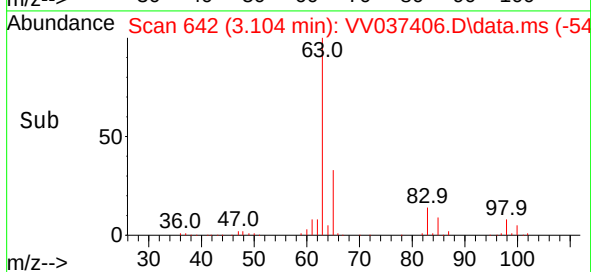
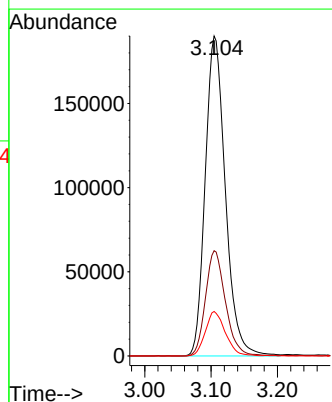
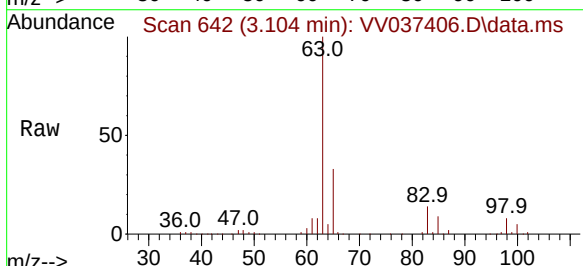


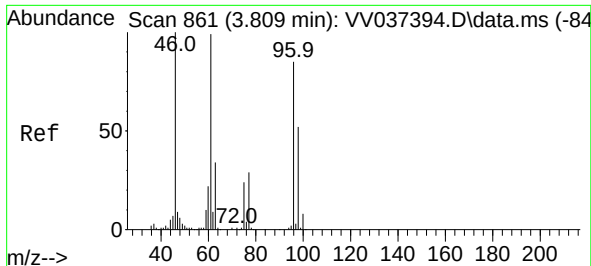
Tgt Ion: 96 Resp: 91531
Ion Ratio Lower Upper
96 100
61 131.5 92.8 172.4
98 63.1 43.0 79.8



#19
1,1-Dichloroethane
Concen: 9.234 ug/L
RT: 3.104 min Scan# 642
Delta R.T. -0.000 min
Lab File: VV037406.D
Acq: 20 Sep 2024 01:30

Tgt Ion: 63 Resp: 401146
Ion Ratio Lower Upper
63 100
65 32.9 22.5 41.7
83 13.9 8.9 16.5





#22

cis-1,2-Dichloroethene

Concen: 171.413 ug/L

RT: 3.802 min Scan# 861

Delta R.T. -0.007 min

Lab File: VV037406.D

Acq: 20 Sep 2024 01:30

Instrument :

MSVOA_V

ClientSampleId :

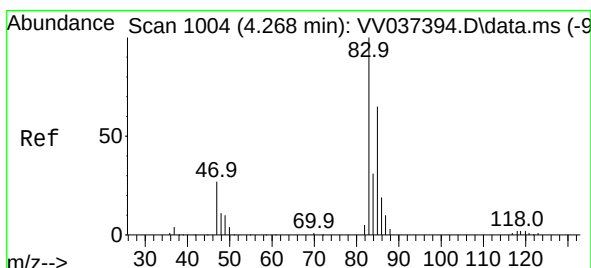
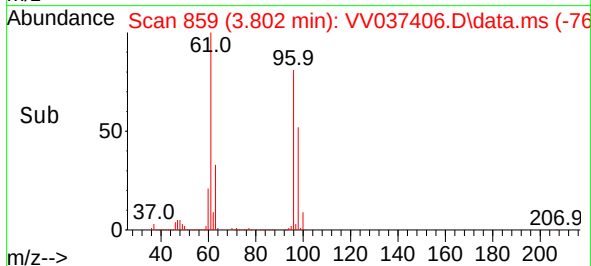
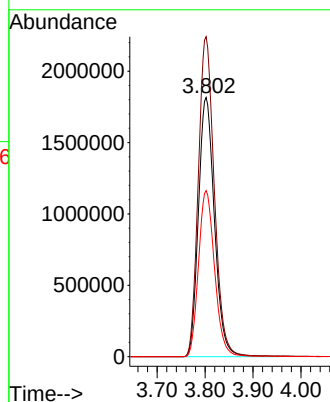
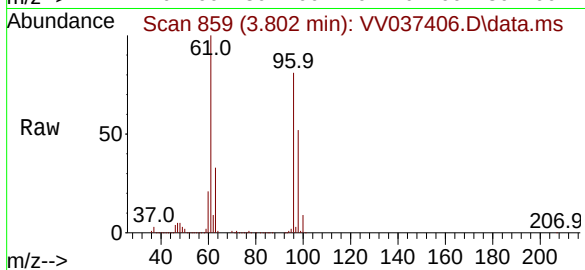
Tgt Ion: 96 Resp: 4216013

Ion Ratio Lower Upper

96 100

61 123.4 87.6 162.6

98 64.1 44.9 83.5



#25

Chloroform

Concen: 5.160 ug/L

RT: 4.272 min Scan# 1005

Delta R.T. 0.003 min

Lab File: VV037406.D

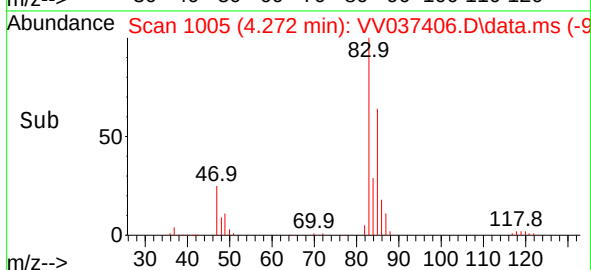
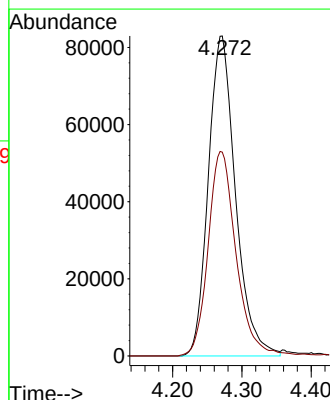
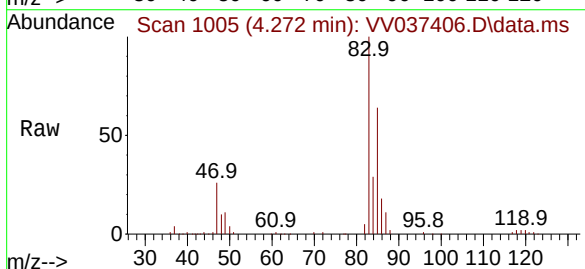
Acq: 20 Sep 2024 01:30

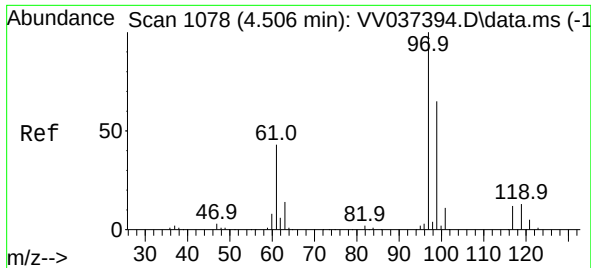
Tgt Ion: 83 Resp: 225850

Ion Ratio Lower Upper

83 100

85 63.7 43.8 81.4

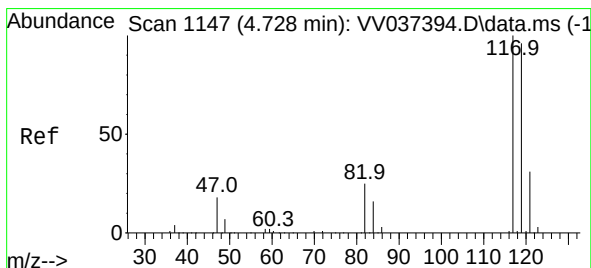
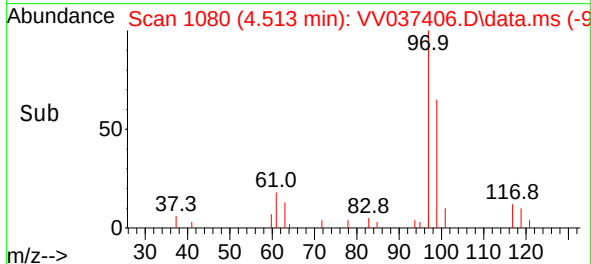
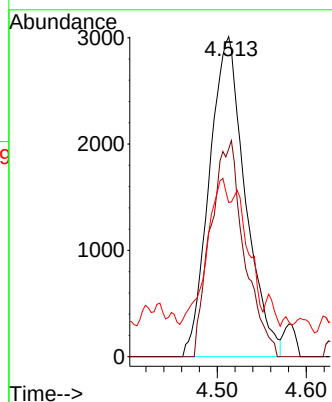
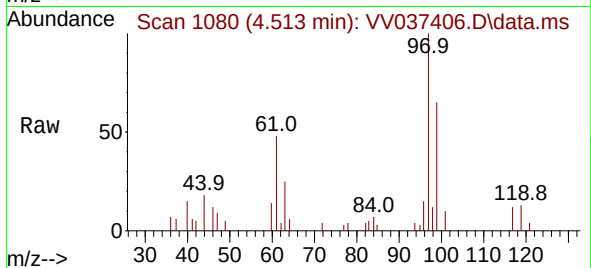




#29
1,1,1-Trichloroethane
Concen: 0.223 ug/L
RT: 4.513 min Scan# 1148
Delta R.T. 0.006 min
Lab File: VV037406.D
Acq: 20 Sep 2024 01:30

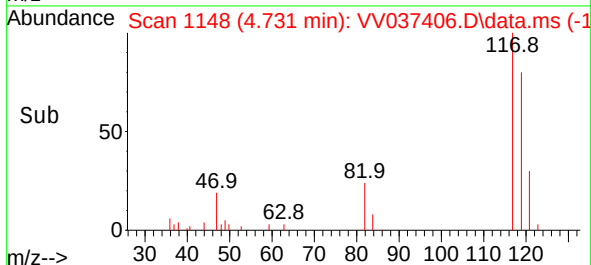
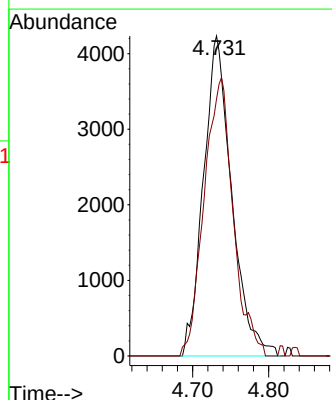
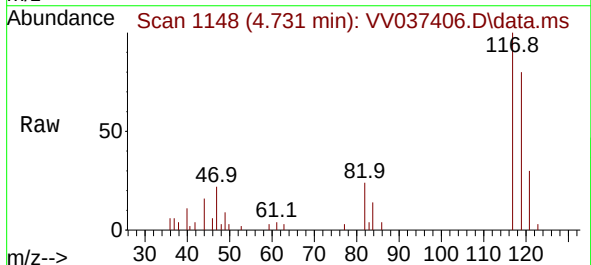
Instrument :
MSVOA_V
ClientSampleId :

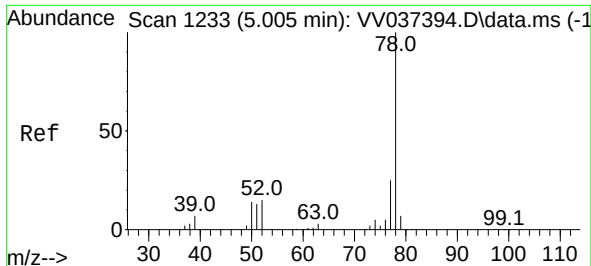
Tgt Ion: 97 Resp: 8429
Ion Ratio Lower Upper
97 100
99 63.2 50.0 75.0
61 26.7 34.3 51.5#



#31
Carbon tetrachloride
Concen: 0.339 ug/L
RT: 4.731 min Scan# 1148
Delta R.T. 0.003 min
Lab File: VV037406.D
Acq: 20 Sep 2024 01:30

Tgt Ion: 117 Resp: 10924
Ion Ratio Lower Upper
117 100
119 89.1 76.2 114.4

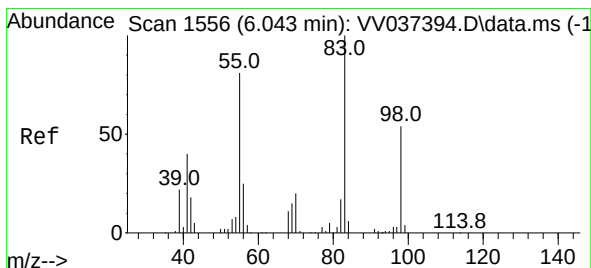
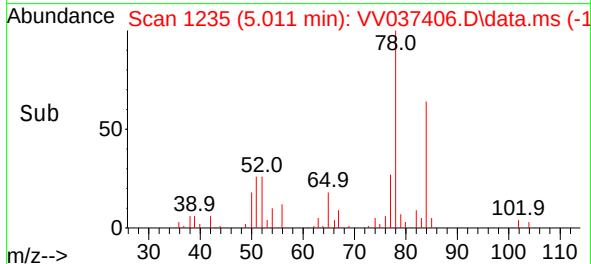
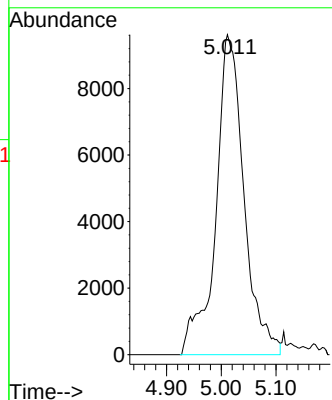
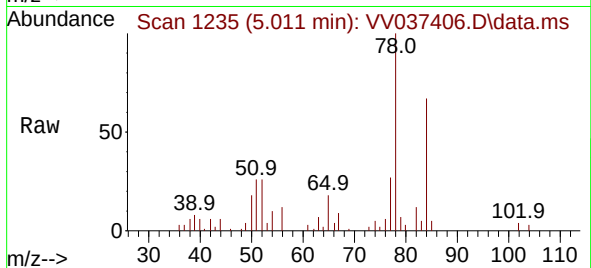




#33
Benzene
Concen: 0.358 ug/L
RT: 5.011 min Scan# 11
Delta R.T. 0.006 min
Lab File: VV037406.D
Acq: 20 Sep 2024 01:30

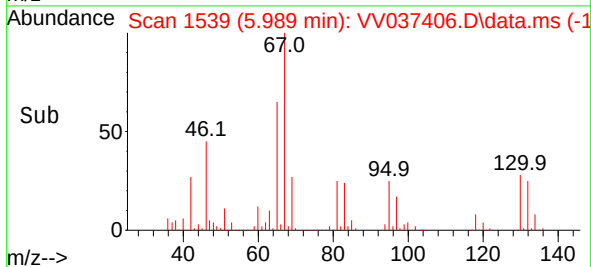
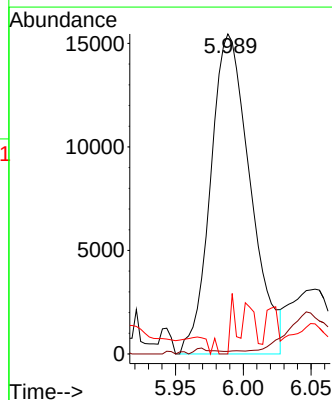
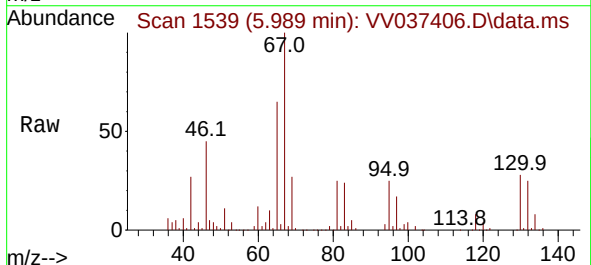
Instrument :
MSVOA_V
ClientSampleId :

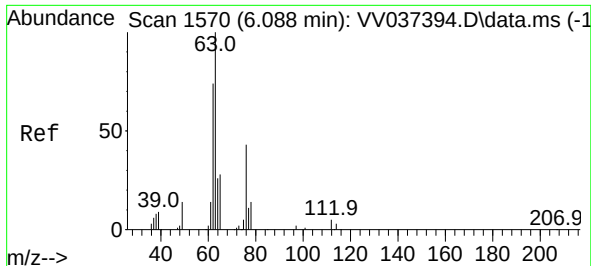
Tgt Ion: 78 Resp: 34423



#35
Methylcyclohexane
Concen: 0.800 ug/L
RT: 5.989 min Scan# 1539
Delta R.T. -0.055 min
Lab File: VV037406.D
Acq: 20 Sep 2024 01:30

Tgt Ion: 83 Resp: 31500
Ion Ratio Lower Upper
83 100
55 0.8 60.3 90.5#
98 0.0 38.2 57.4#

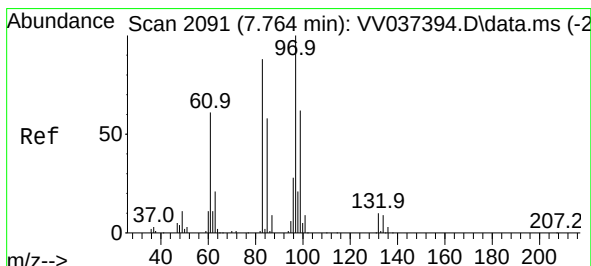
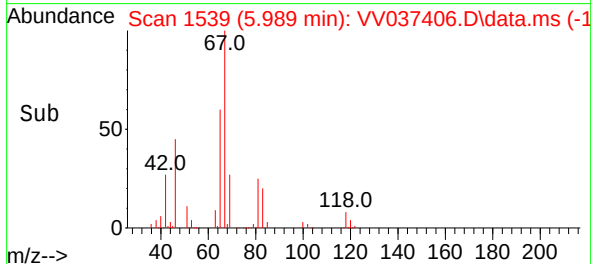
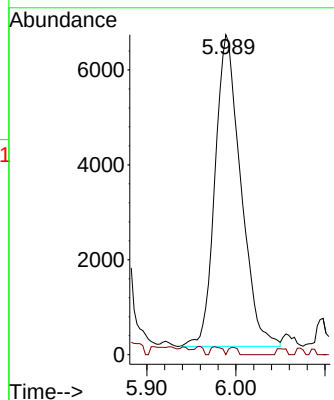
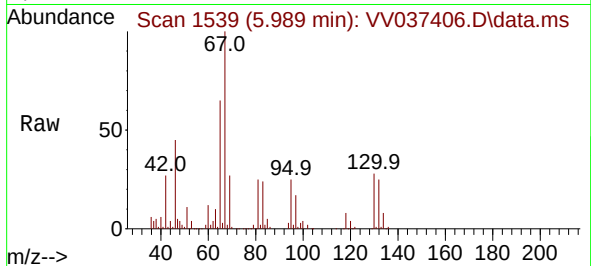




#37
1,2-Dichloropropane
Concen: 0.539 ug/L
RT: 5.989 min Scan# 1539
Delta R.T. -0.100 min
Lab File: VV037406.D
Acq: 20 Sep 2024 01:30

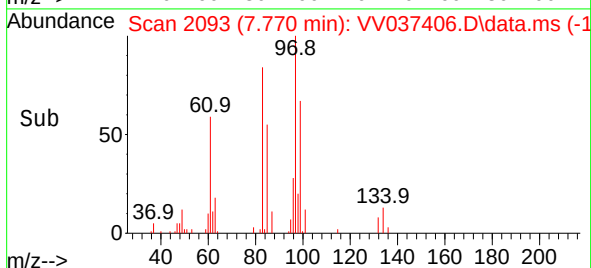
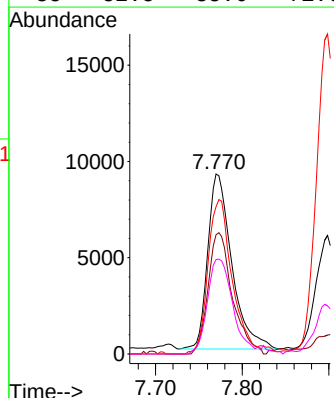
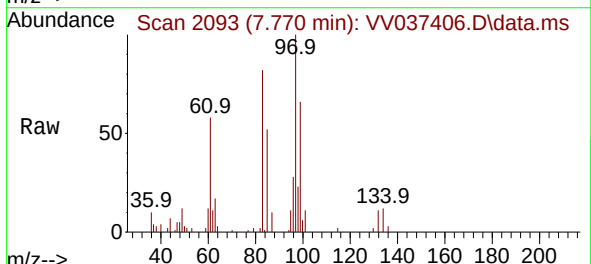
Instrument :
MSVOA_V
ClientSampleId :

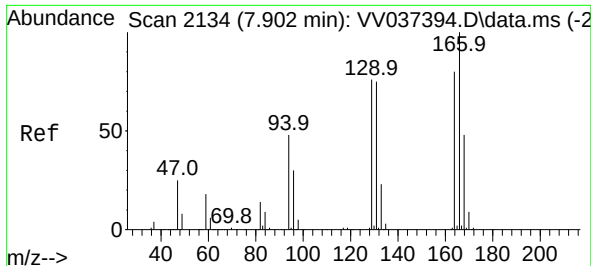
Tgt Ion: 63 Resp: 13190
Ion Ratio Lower Upper
63 100
112 0.8 3.7 5.5#



#45
1,1,2-Trichloroethane
Concen: 1.006 ug/L
RT: 7.770 min Scan# 2093
Delta R.T. 0.006 min
Lab File: VV037406.D
Acq: 20 Sep 2024 01:30

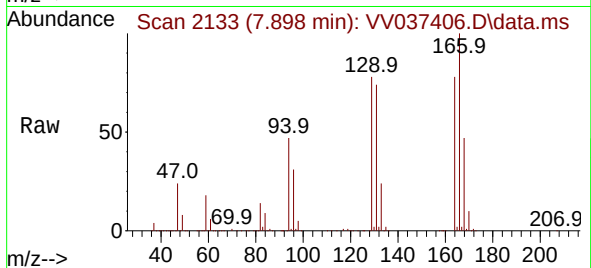
Tgt Ion: 97 Resp: 17602
Ion Ratio Lower Upper
97 100
99 66.2 43.1 80.1
83 81.7 61.0 113.4
85 52.5 38.6 71.6



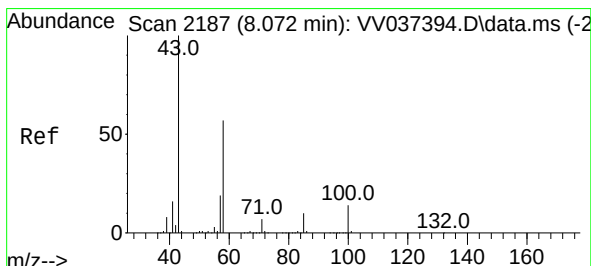
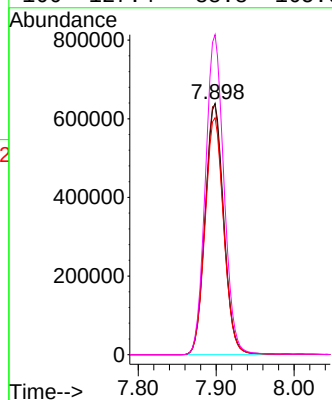
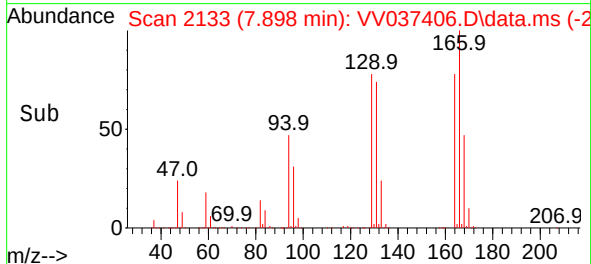


#47
Tetrachloroethene
Concen: 57.145 ug/L
RT: 7.898 min Scan# 2133
Delta R.T. -0.003 min
Lab File: VV037406.D
Acq: 20 Sep 2024 01:30

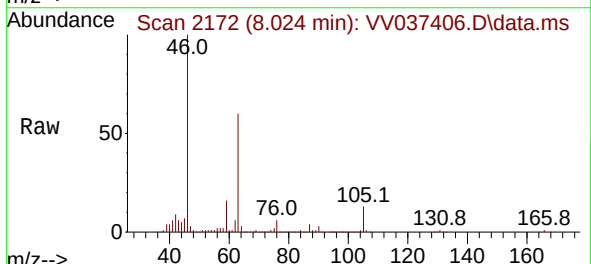
Instrument :
MSVOA_V
ClientSampleId :



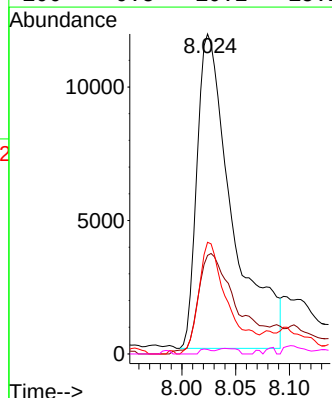
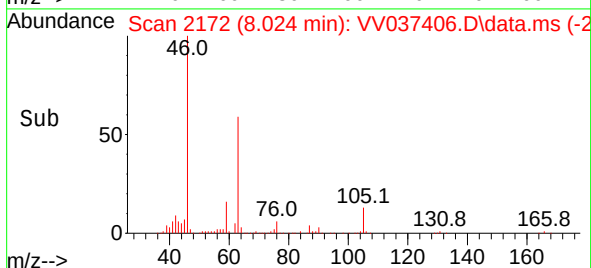
Tgt Ion:164 Resp: 1059202
Ion Ratio Lower Upper
164 100
129 99.4 69.2 128.4
131 94.3 66.6 123.8
166 127.4 88.8 165.0

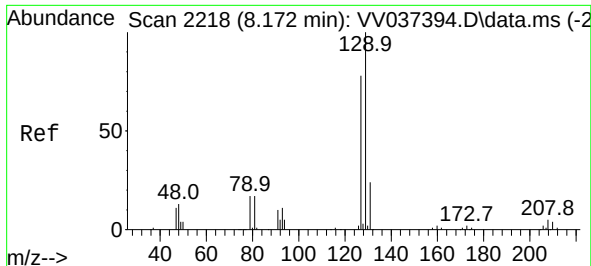


#48
2-Hexanone
Concen: 2.619 ug/L
RT: 8.024 min Scan# 2172
Delta R.T. -0.048 min
Lab File: VV037406.D
Acq: 20 Sep 2024 01:30



Tgt Ion: 43 Resp: 26799
Ion Ratio Lower Upper
43 100
58 35.9 45.5 68.3#
57 29.5 15.3 22.9#
100 0.5 10.2 15.2#





#49

Dibromochloromethane

Concen: 53.680 ug/L

RT: 7.898 min Scan# 2133

Delta R.T. -0.273 min

Lab File: VV037406.D

Acq: 20 Sep 2024 01:30

Instrument :

MSVOA_V

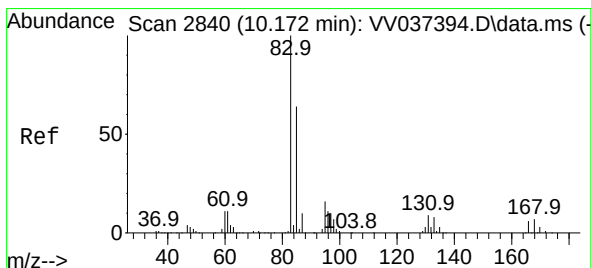
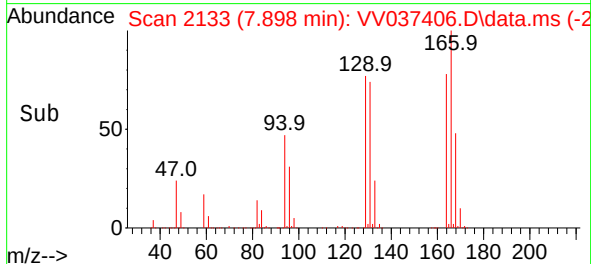
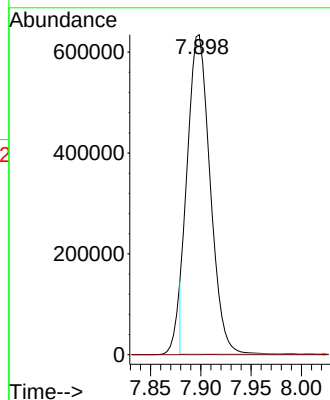
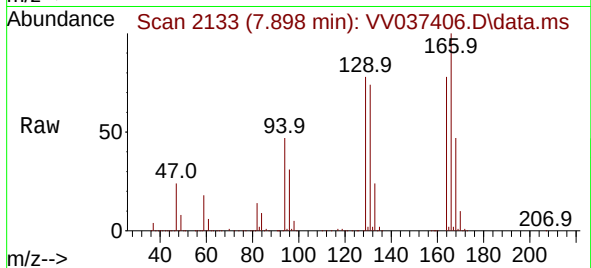
ClientSampleId :

Tgt Ion:129 Resp: 984166

Ion Ratio Lower Upper

129 100

127 0.0 54.5 101.1#



#57

1,1,2,2-Tetrachloroethane

Concen: 0.296 ug/L

RT: 10.172 min Scan# 2840

Delta R.T. -0.000 min

Lab File: VV037406.D

Acq: 20 Sep 2024 01:30

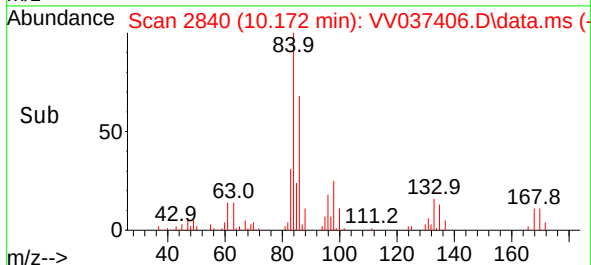
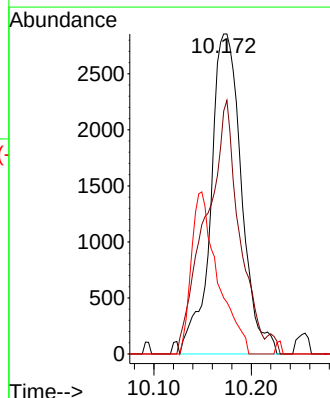
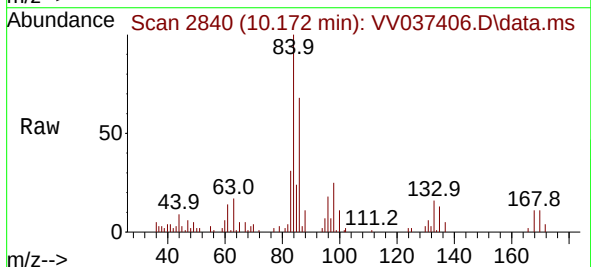
Tgt Ion: 83 Resp: 6267

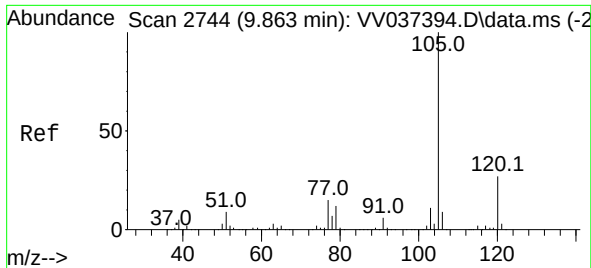
Ion Ratio Lower Upper

83 100

85 75.9 43.2 80.2

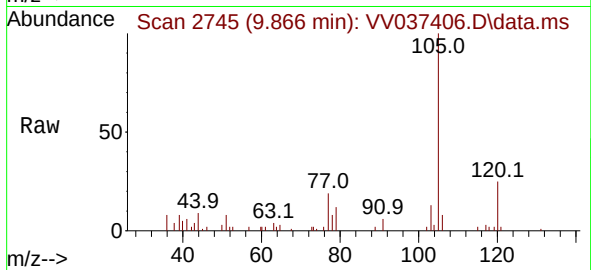
131 17.5 6.9 10.3#



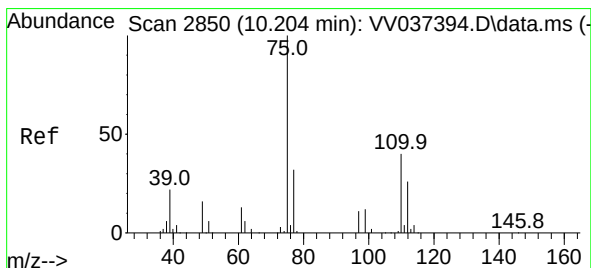
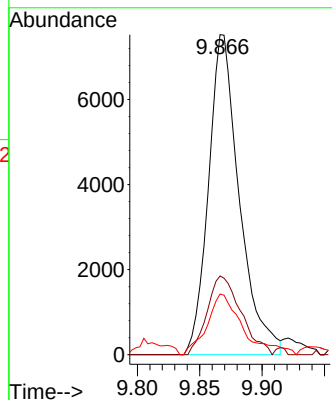
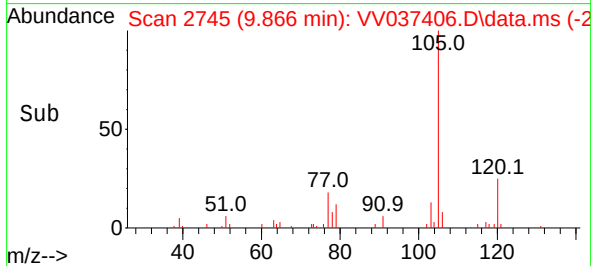


#60
Isopropylbenzene
Concen: 0.127 ug/L
RT: 9.866 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV037406.D
Acq: 20 Sep 2024 01:30

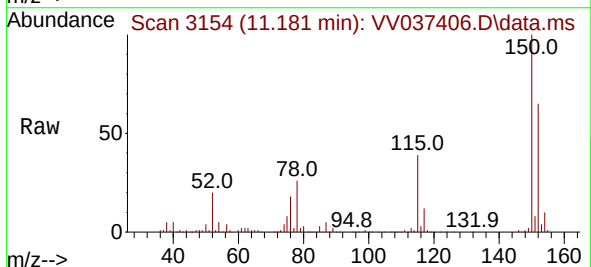
Instrument :
MSVOA_V
ClientSampleId :



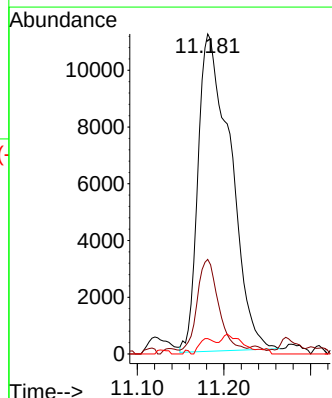
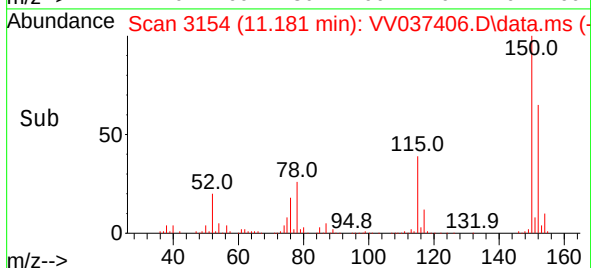
Tgt Ion:105 Resp: 12980
Ion Ratio Lower Upper
105 100
120 26.8 20.2 30.4
77 21.9 12.7 19.1#

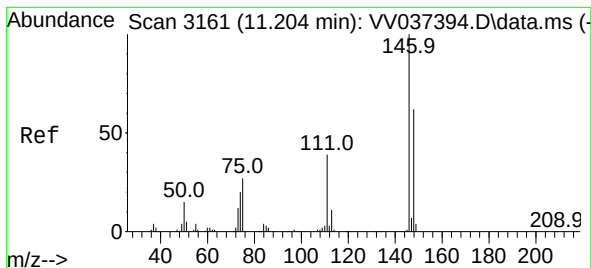


#61
1,2,3-Trichloropropane
Concen: 2.095 ug/L
RT: 11.181 min Scan# 3154
Delta R.T. 0.977 min
Lab File: VV037406.D
Acq: 20 Sep 2024 01:30



Tgt Ion: 75 Resp: 29147
Ion Ratio Lower Upper
75 100
77 20.0 25.6 38.4#
110 2.3 31.0 46.4#





#65

1,4-Dichlorobenzene

Concen: 0.742 ug/L

RT: 11.207 min Scan# 3161

Delta R.T. 0.003 min

Lab File: VV037406.D

Acq: 20 Sep 2024 01:30

Instrument :

MSVOA_V

ClientSampleId :

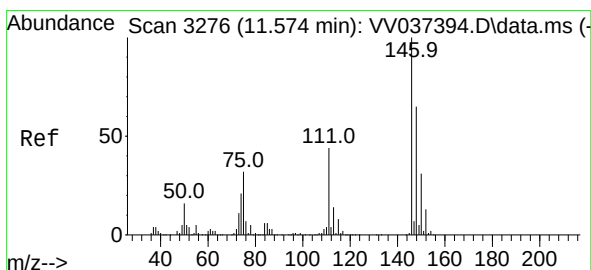
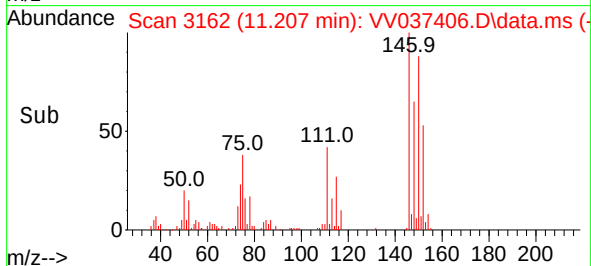
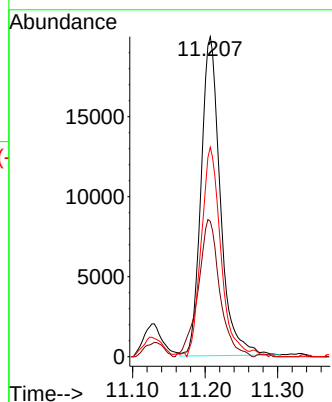
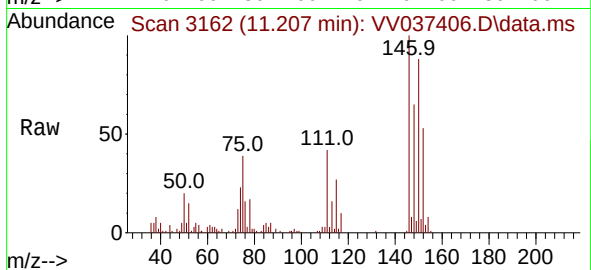
Tgt Ion:146 Resp: 36812

Ion Ratio Lower Upper

146 100

111 42.3 28.2 52.4

148 65.4 45.8 85.0



#67

1,2-Dichlorobenzene

Concen: 3.483 ug/L

RT: 11.574 min Scan# 3276

Delta R.T. -0.000 min

Lab File: VV037406.D

Acq: 20 Sep 2024 01:30

Tgt Ion:146 Resp: 156225

Ion Ratio Lower Upper

146 100

111 42.4 34.4 51.6

148 61.5 51.8 77.6

