

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY040524\
 Data File : VY017866.D
 Acq On : 05 Apr 2024 13:20
 Operator : SY/MD
 Sample : P2001-01
 Misc : 5.06g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 S-846-G3-SO-13-040424

Quant Time: Apr 05 15:06:27 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032924S.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 30 05:58:13 2024
 Response via : Initial Calibration

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

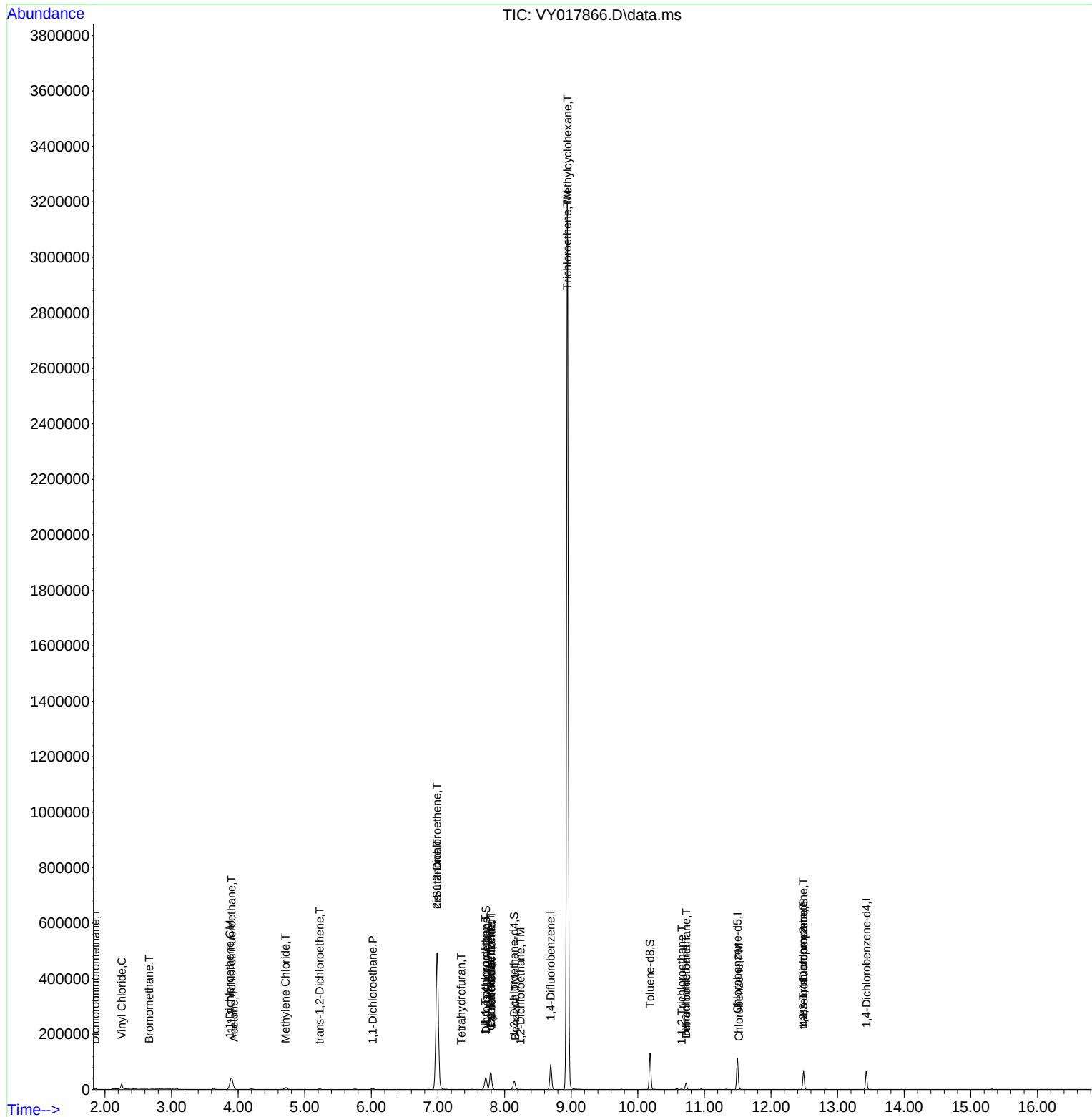
Internal Standards						
1) Pentafluorobenzene	7.795	168	50123	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	77502	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.496	117	61331	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.434	152	17431	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.143	65	22255	51.310	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 102.620%			
35) Dibromofluoromethane	7.722	113	25699	57.384	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 114.760%			
50) Toluene-d8	10.185	98	87919	52.555	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 105.120%			
62) 4-Bromofluorobenzene	12.489	95	17468	34.320	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 68.640%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.857	85	360	1.074	ug/l	95
4) Vinyl Chloride	2.253	62	17575	20.555	ug/l	100
5) Bromomethane	2.662	94	902	1.305	ug/l	90
9) 1,1,2-Trichlorotrifluo...	3.899	101	26464	52.924	ug/l	97
11) Tert butyl alcohol	4.954	59	102	Below Cal	#	88
12) 1,1-Dichloroethene	3.875	96	3234	6.911	ug/l #	69
16) Acetone	3.936	43	1428	15.928	ug/l #	66
20) Methylene Chloride	4.710	84	5387	7.551	ug/l #	84
21) trans-1,2-Dichloroethene	5.222	96	1359	2.714	ug/l #	64
24) 1,1-Dichloroethane	6.021	63	5058	5.744	ug/l	96
25) 2-Butanone	6.984	43	338	2.646	ug/l #	1
27) cis-1,2-Dichloroethene	6.984	96	315131	532.531	ug/l	92
29) Tetrahydrofuran	7.350	42	104	1.357	ug/l #	26
31) Cyclohexane	7.795	56	1088	1.424	ug/l #	32
32) 1,1,1-Trichloroethane	7.710	97	6744	8.672	ug/l #	92
36) 1,1-Dichloropropene	7.789	75	3929	6.013	ug/l #	45
38) Carbon Tetrachloride	7.801	117	5012	7.389	ug/l #	15
39) Methylcyclohexane	8.947	83	12652	15.501	ug/l #	1
40) Benzene	8.161	78	2132	1.059	ug/l #	75
42) 1,2-Dichloroethane	8.240	62	716	1.445	ug/l	78
44) Trichloroethene	8.941	130	1067281	2037.098	ug/l	99
51) 4-Methyl-2-Pentanone	10.069	43	226	Below Cal	#	62
55) 1,1,2-Trichloroethane	10.660	97	489	1.380	ug/l #	74
59) 2-Hexanone	10.728	43	48	Below Cal	#	19
60) Dibromochloromethane	10.728	129	4491	10.052	ug/l #	10
64) Tetrachloroethene	10.721	164	5152	9.631	ug/l	88
65) Chlorobenzene	11.520	112	1377	1.094	ug/l	93
69) o-Xylene	12.044	106	134	Below Cal		55
76) 1,2,3-Trichloropropane	12.483	75	9390	59.116	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.483	75	9390	113.219	ug/l #	16

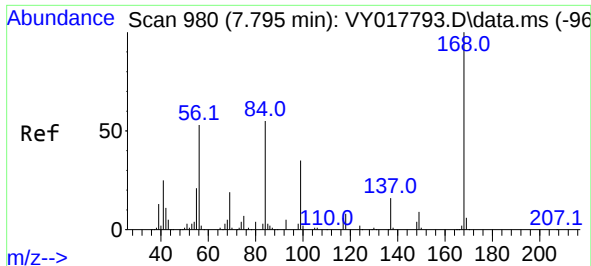
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Mar 30 05:58:13 2024
Response via : Initial Calibration

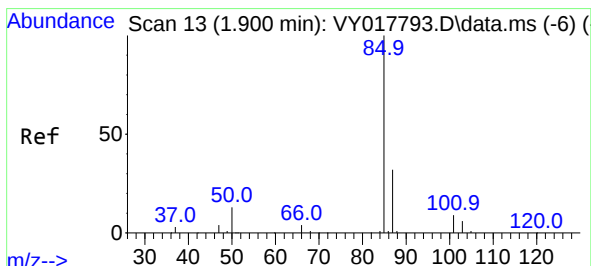
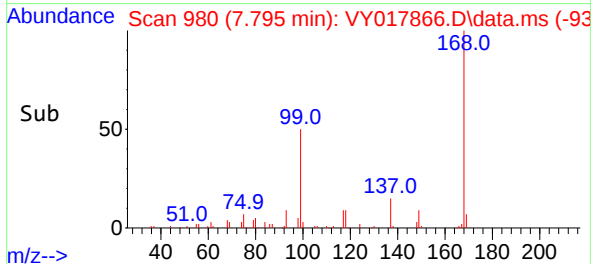
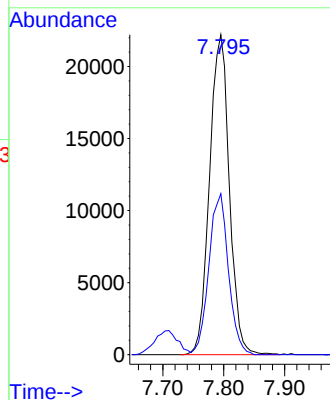
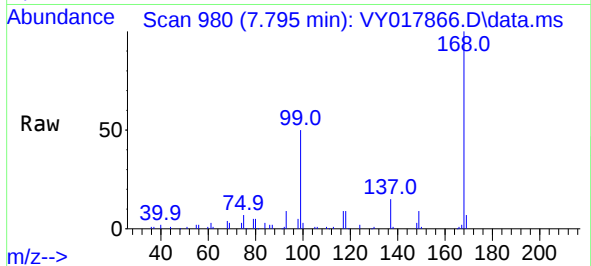




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.795 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY017866.D
Acq: 05 Apr 2024 13:20

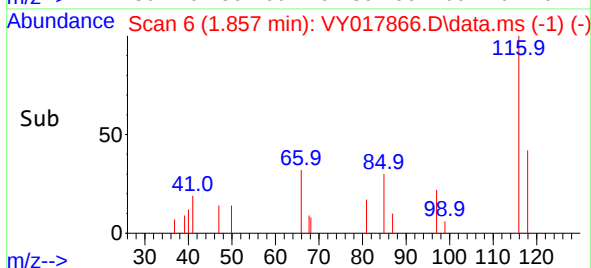
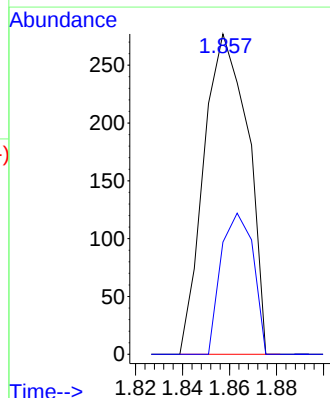
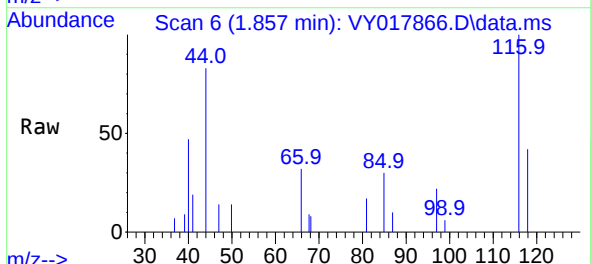
Instrument :
MSVOA_Y
ClientSampleId :
S-846-G3-SO-13-040424

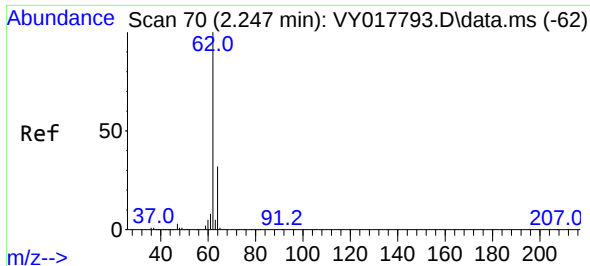
Tgt Ion:168 Resp: 50123
Ion Ratio Lower Upper
168 100
99 50.3 39.1 58.7



#2
Dichlorodifluoromethane
Concen: 1.074 ug/l
RT: 1.857 min Scan# 6
Delta R.T. -0.043 min
Lab File: VY017866.D
Acq: 05 Apr 2024 13:20

Tgt Ion: 85 Resp: 360
Ion Ratio Lower Upper
85 100
87 35.0 16.0 48.0

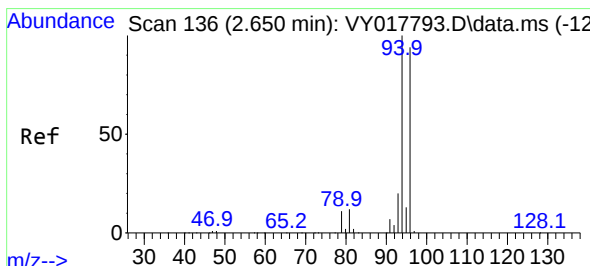
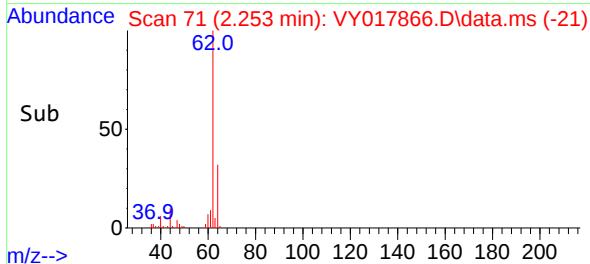
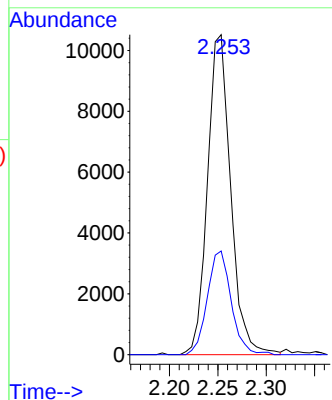
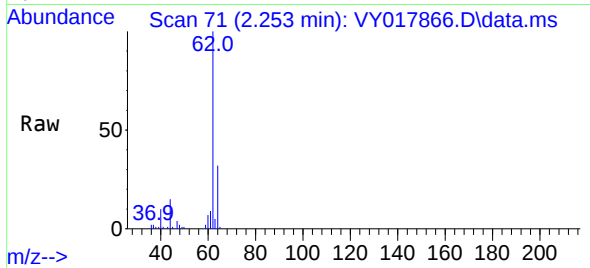




#4
Vinyl Chloride
Concen: 20.555 ug/l
RT: 2.253 min Scan# 71
Delta R.T. 0.006 min
Lab File: VY017866.D
Acq: 05 Apr 2024 13:20

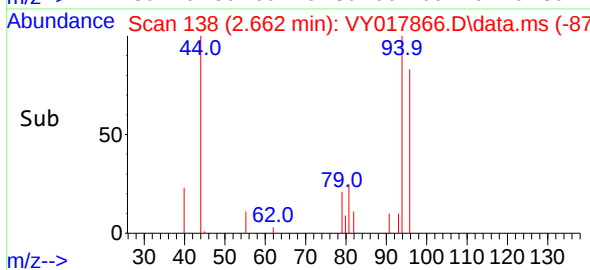
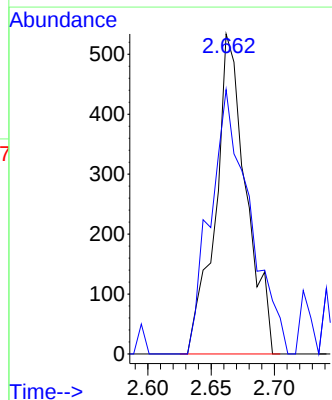
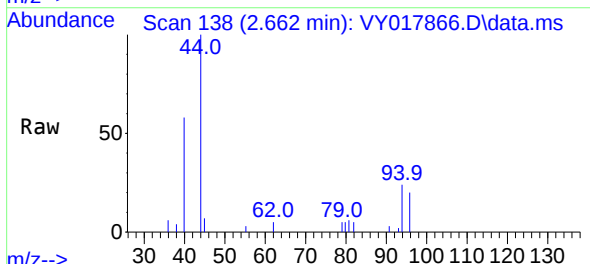
Instrument :
MSVOA_Y
ClientSampleId :
S-846-G3-SO-13-040424

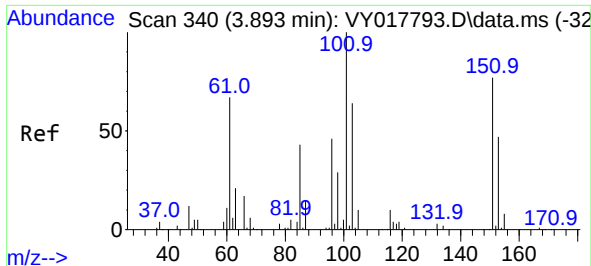
Tgt Ion: 62 Resp: 17575
Ion Ratio Lower Upper
62 100
64 32.4 26.1 39.1



#5
Bromomethane
Concen: 1.305 ug/l
RT: 2.662 min Scan# 138
Delta R.T. 0.012 min
Lab File: VY017866.D
Acq: 05 Apr 2024 13:20

Tgt Ion: 94 Resp: 902
Ion Ratio Lower Upper
94 100
96 82.6 74.1 111.1

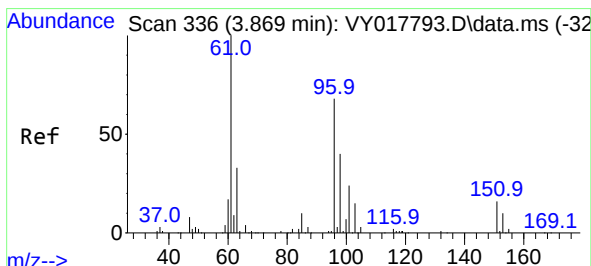
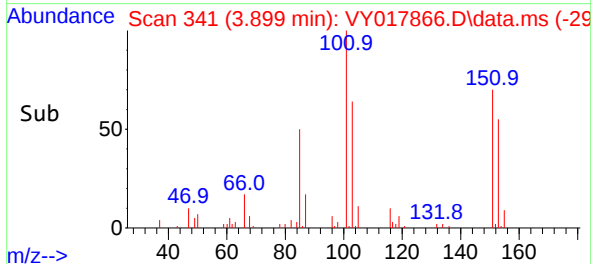
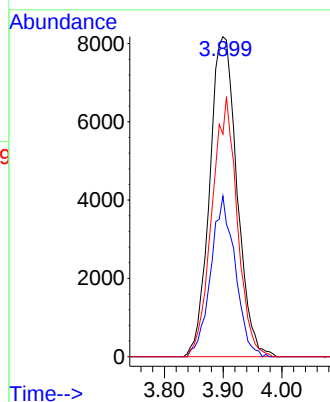
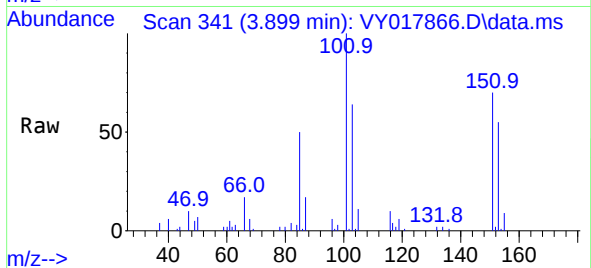




#9
1,1,2-Trichlorotrifluoroethane
Concen: 52.924 ug/l
RT: 3.899 min Scan# 341
Delta R.T. 0.006 min
Lab File: VY017866.D
Acq: 05 Apr 2024 13:20

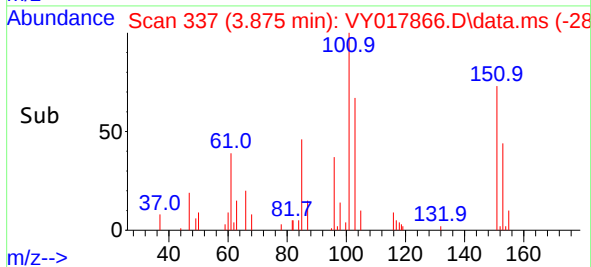
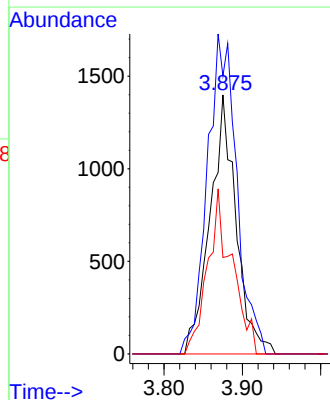
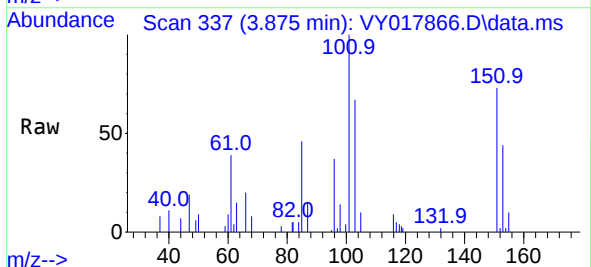
Instrument :
MSVOA_Y
ClientSampleId :
S-846-G3-SO-13-040424

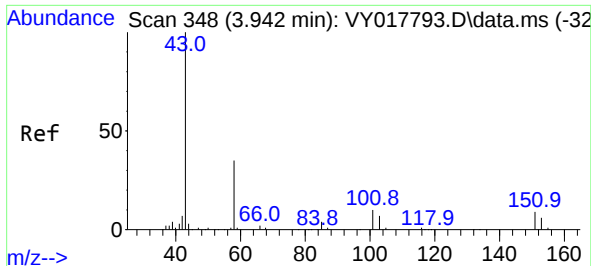
Tgt Ion:101 Resp: 26464
Ion Ratio Lower Upper
101 100
85 44.7 34.5 51.7
151 74.8 61.7 92.5



#12
1,1-Dichloroethene
Concen: 6.911 ug/l
RT: 3.875 min Scan# 337
Delta R.T. 0.006 min
Lab File: VY017866.D
Acq: 05 Apr 2024 13:20

Tgt Ion: 96 Resp: 3234
Ion Ratio Lower Upper
96 100
61 107.3 114.6 171.8#
98 37.2 50.8 76.2#





#16

Acetone

Concen: 15.928 ug/l

RT: 3.936 min Scan# 34

Delta R.T. -0.006 min

Lab File: VY017866.D

Acq: 05 Apr 2024 13:20

Instrument :

MSVOA_Y

ClientSampleId :

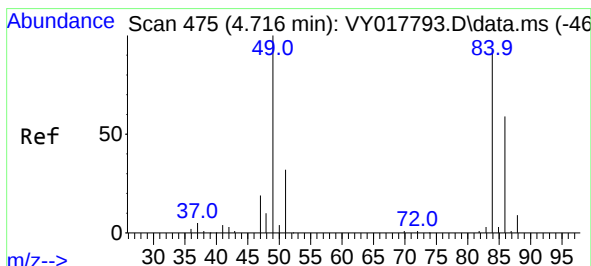
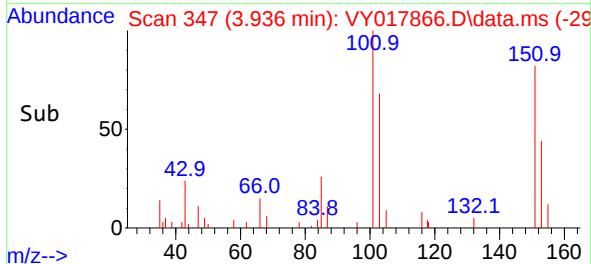
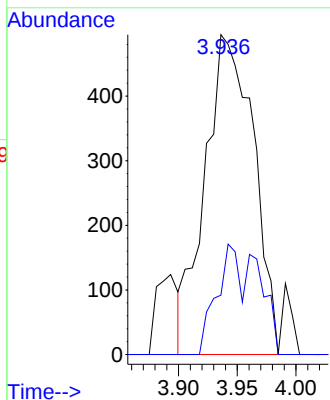
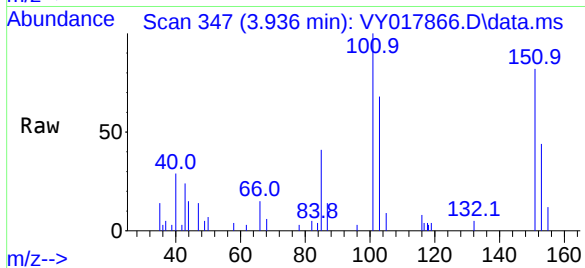
S-846-G3-SO-13-040424

Tgt Ion: 43 Resp: 1428

Ion Ratio Lower Upper

43 100

58 18.6 31.7 47.5#



#20

Methylene Chloride

Concen: 7.551 ug/l

RT: 4.710 min Scan# 474

Delta R.T. -0.006 min

Lab File: VY017866.D

Acq: 05 Apr 2024 13:20

Tgt Ion: 84 Resp: 5387

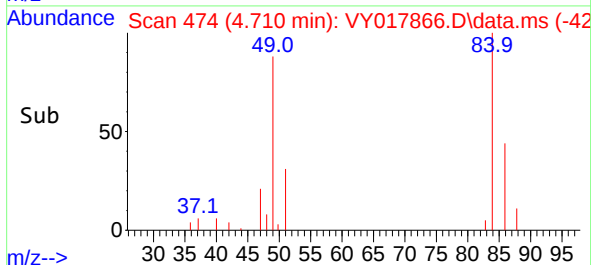
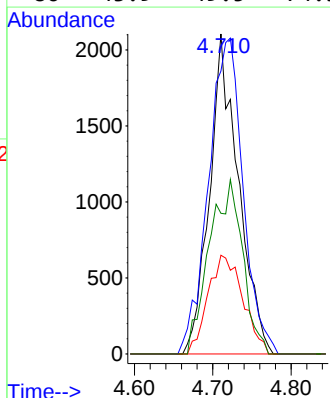
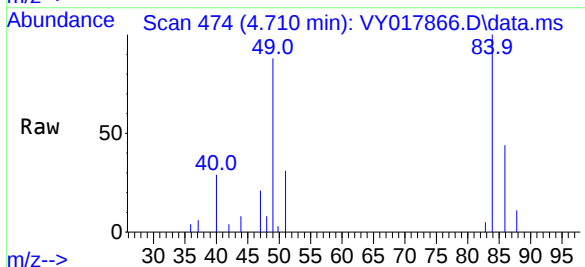
Ion Ratio Lower Upper

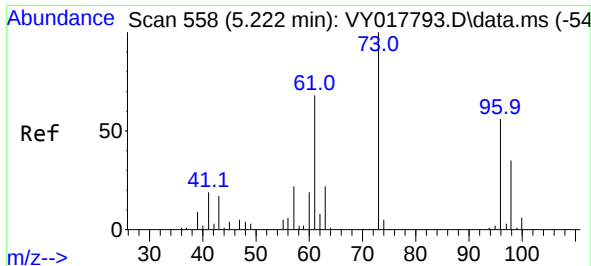
84 100

49 88.4 84.4 126.6

51 30.8 26.0 39.0

86 43.9 49.5 74.3#

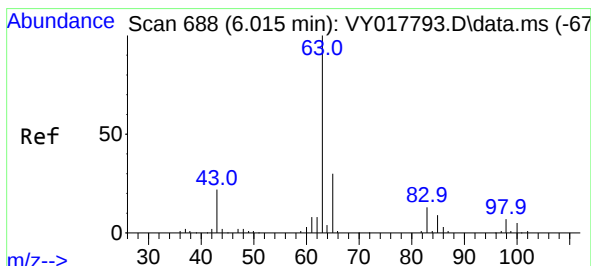
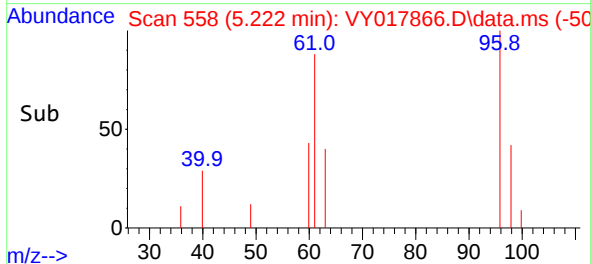
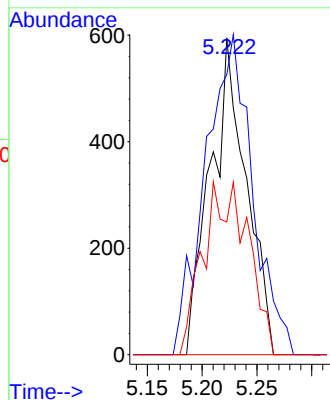
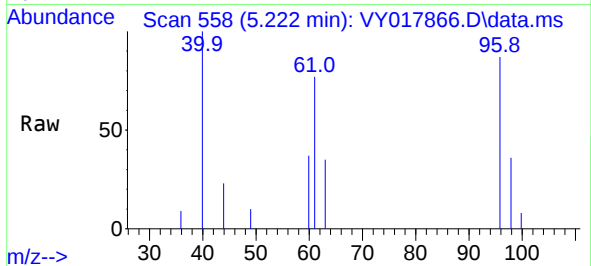




#21
trans-1,2-Dichloroethene
Concen: 2.714 ug/l
RT: 5.222 min Scan# 51
Delta R.T. 0.000 min
Lab File: VY017866.D
Acq: 05 Apr 2024 13:20

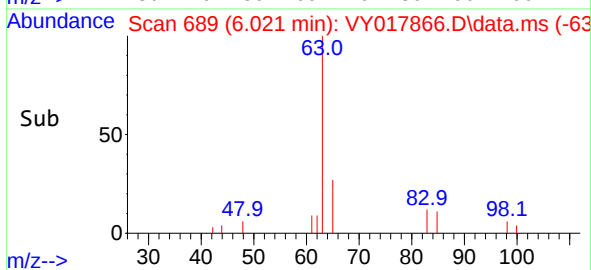
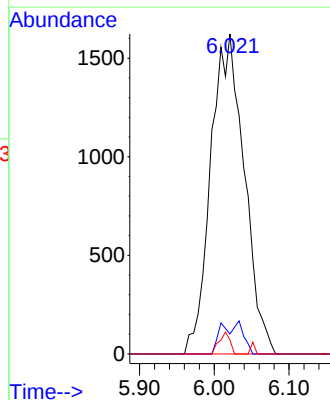
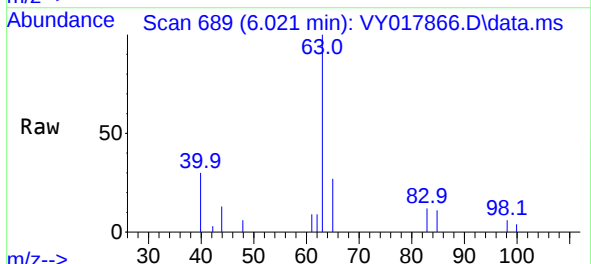
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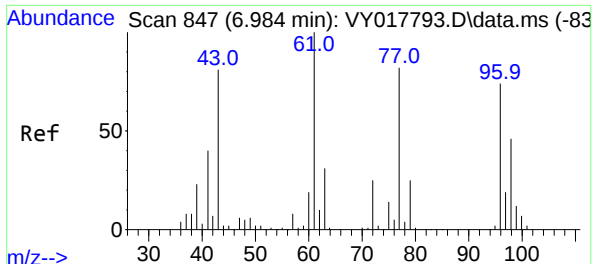
Tgt Ion: 96 Resp: 1359
Ion Ratio Lower Upper
96 100
61 76.8 97.5 146.3#
98 41.8 50.5 75.7#



#24
1,1-Dichloroethane
Concen: 5.744 ug/l
RT: 6.021 min Scan# 689
Delta R.T. 0.006 min
Lab File: VY017866.D
Acq: 05 Apr 2024 13:20

Tgt Ion: 63 Resp: 5058
Ion Ratio Lower Upper
63 100
98 6.2 4.0 12.2
100 4.3 2.6 8.0





#25

2-Butanone

Concen: 2.646 ug/l

RT: 6.984 min Scan# 847

Delta R.T. 0.000 min

Lab File: VY017866.D

Acq: 05 Apr 2024 13:20

Instrument :

MSVOA_Y

ClientSampleId :

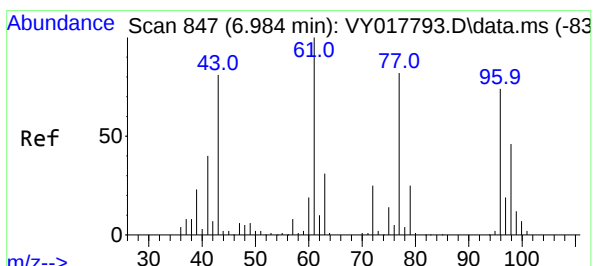
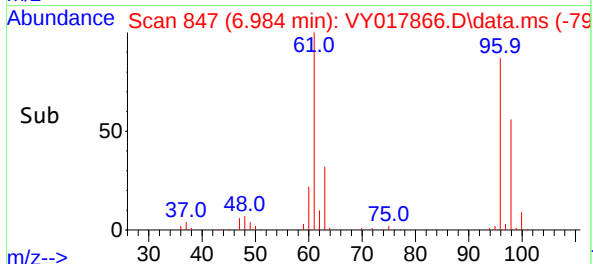
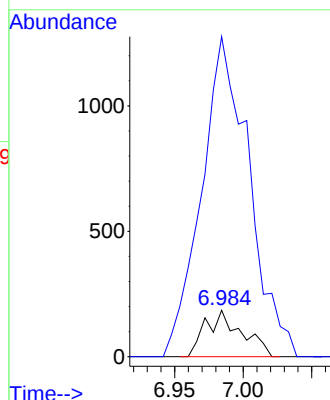
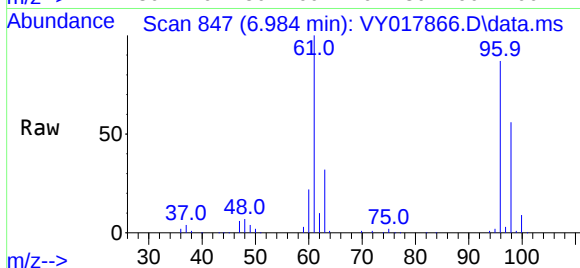
S-846-G3-SO-13-040424

Tgt Ion: 43 Resp: 338

Ion Ratio Lower Upper

43 100

72 624.3 27.3 40.9#



#27

cis-1,2-Dichloroethene

Concen: 532.531 ug/l

RT: 6.984 min Scan# 847

Delta R.T. 0.000 min

Lab File: VY017866.D

Acq: 05 Apr 2024 13:20

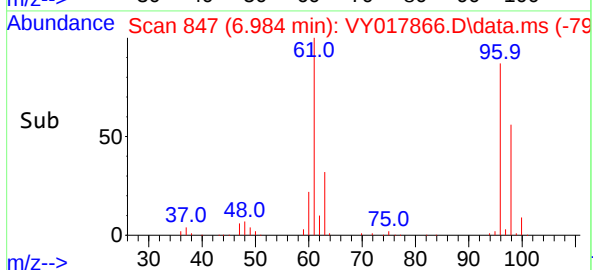
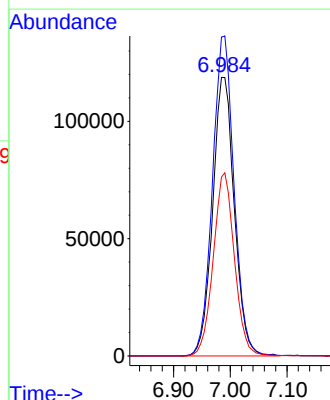
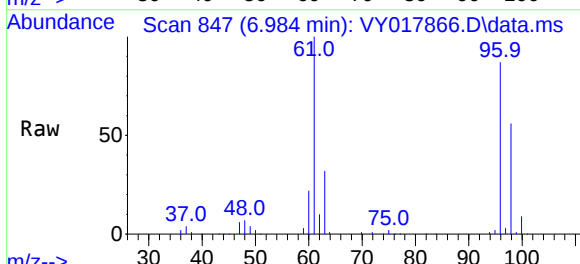
Tgt Ion: 96 Resp: 315131

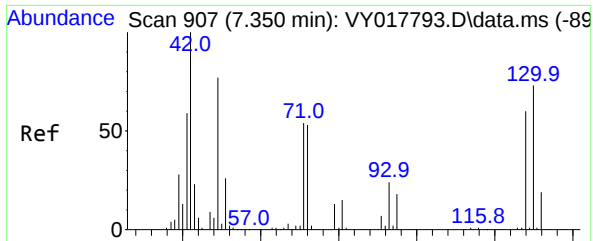
Ion Ratio Lower Upper

96 100

61 114.5 0.0 256.2

98 64.3 0.0 130.0





#29

Tetrahydrofuran

Concen: 1.357 ug/l

RT: 7.350 min Scan# 90

Delta R.T. 0.000 min

Lab File: VY017866.D

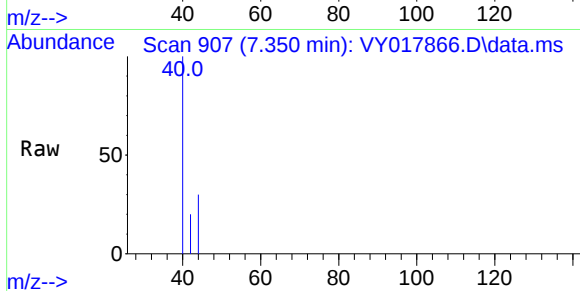
Acq: 05 Apr 2024 13:20

Instrument :

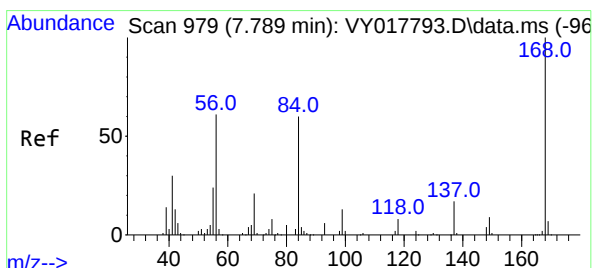
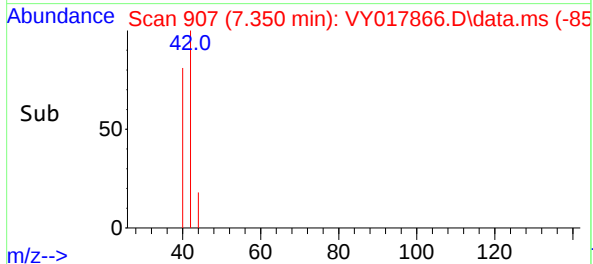
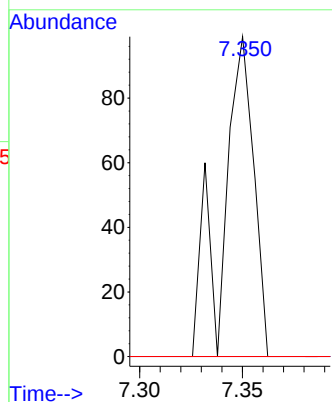
MSVOA_Y

ClientSampleId :

S-846-G3-SO-13-040424



Tgt Ion:	42	Resp:	104
Ion	Ratio	Lower	Upper
42	100		
72	0.0	43.0	64.4#
71	0.0	40.8	61.2#



#31

Cyclohexane

Concen: 1.424 ug/l

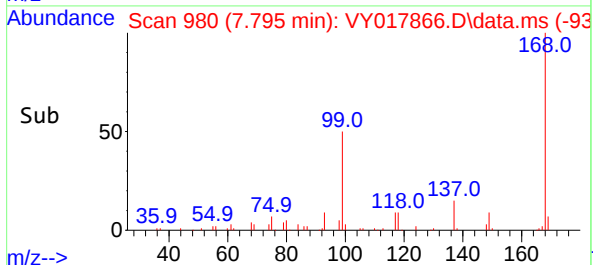
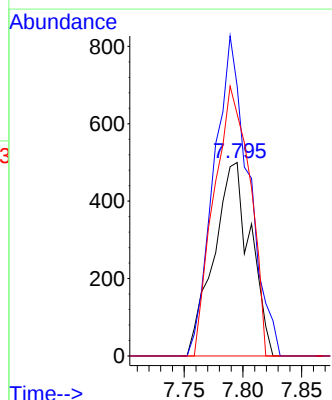
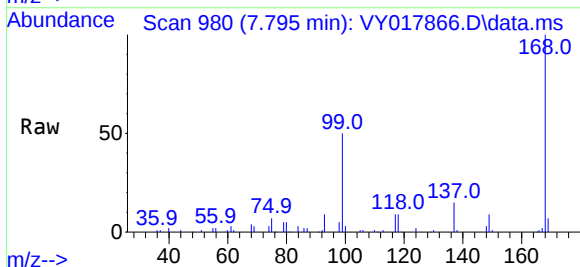
RT: 7.795 min Scan# 980

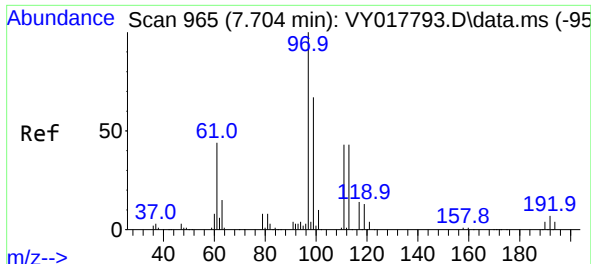
Delta R.T. 0.006 min

Lab File: VY017866.D

Acq: 05 Apr 2024 13:20

Tgt Ion:	56	Resp:	1088
Ion	Ratio	Lower	Upper
56	100		
69	139.4	28.7	43.1#
84	125.0	77.7	116.5#

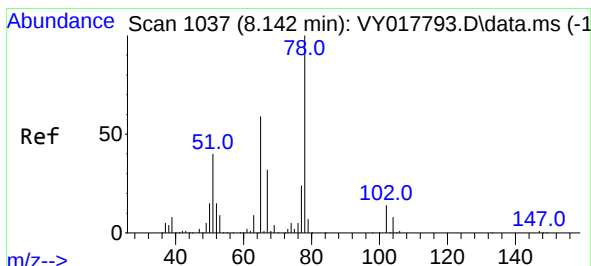
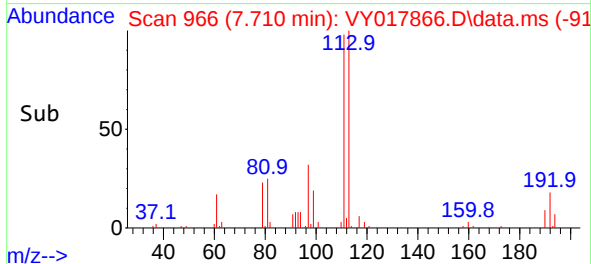
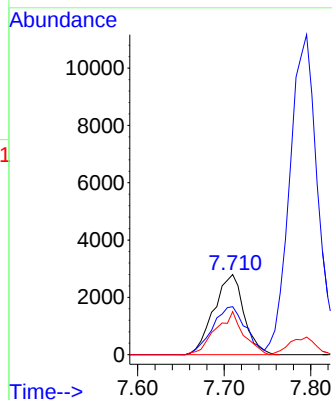
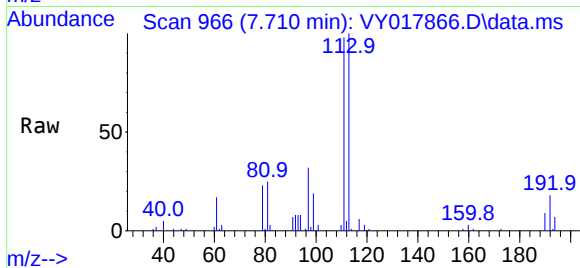




#32
1,1,1-Trichloroethane
Concen: 8.672 ug/l
RT: 7.710 min Scan# 965
Delta R.T. 0.006 min
Lab File: VY017866.D
Acq: 05 Apr 2024 13:20

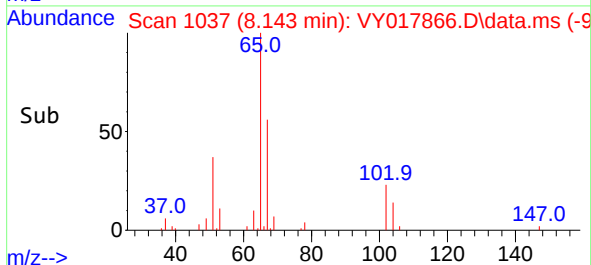
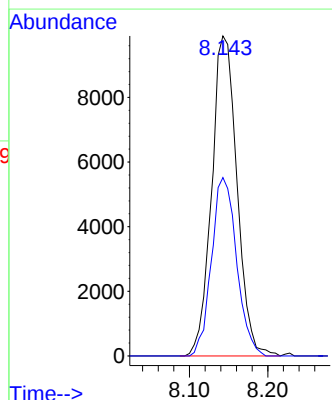
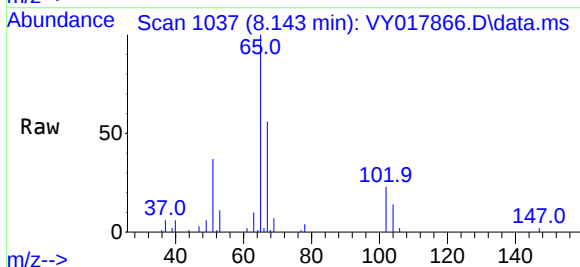
Instrument :
MSVOA_Y
ClientSampleId :
S-846-G3-SO-13-040424

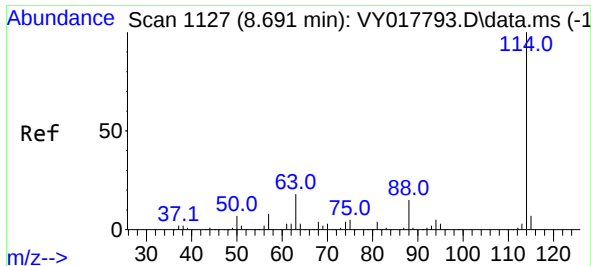
Tgt Ion: 97 Resp: 6744
Ion Ratio Lower Upper
97 100
99 66.5 50.3 75.5
61 49.6 32.6 48.8#



#33
1,2-Dichloroethane-d4
Concen: 51.310 ug/l
RT: 8.143 min Scan# 1037
Delta R.T. 0.000 min
Lab File: VY017866.D
Acq: 05 Apr 2024 13:20

Tgt Ion: 65 Resp: 22255
Ion Ratio Lower Upper
65 100
67 55.2 0.0 109.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VY017866.D

Acq: 05 Apr 2024 13:20

Instrument :

MSVOA_Y

ClientSampleId :

S-846-G3-SO-13-040424

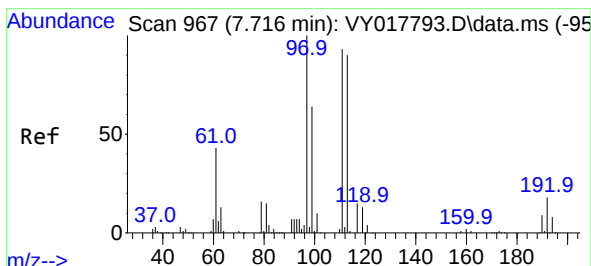
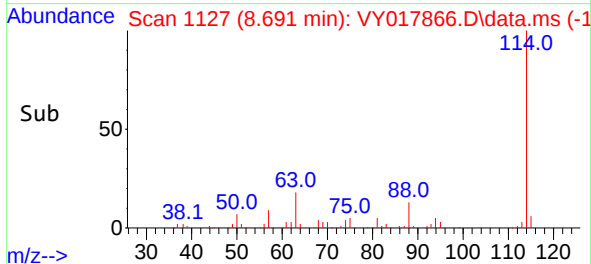
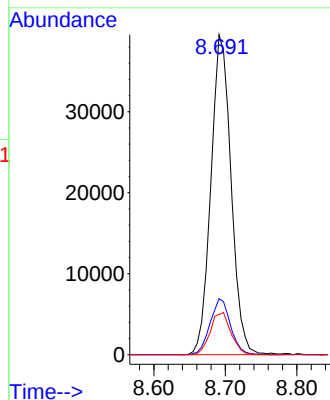
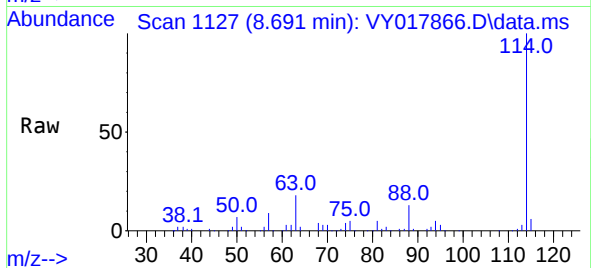
Tgt Ion:114 Resp: 77502

Ion Ratio Lower Upper

114 100

63 17.5 0.0 35.0

88 12.6 0.0 27.2



#35

Dibromofluoromethane

Concen: 57.384 ug/l

RT: 7.722 min Scan# 968

Delta R.T. 0.006 min

Lab File: VY017866.D

Acq: 05 Apr 2024 13:20

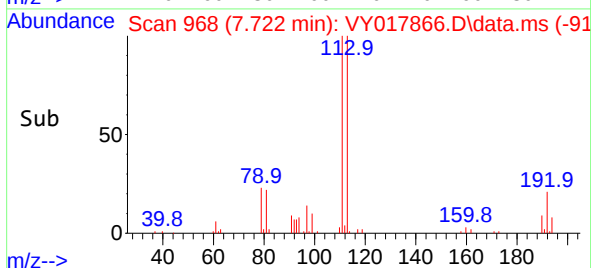
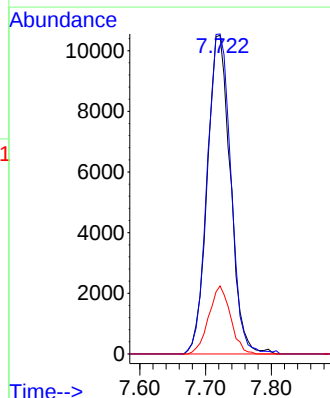
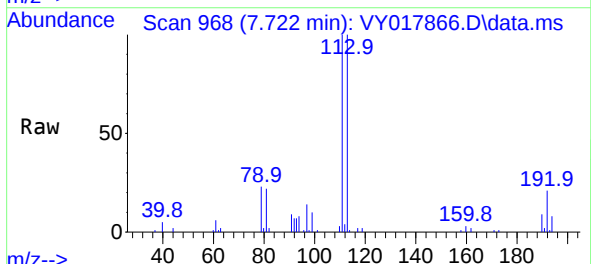
Tgt Ion:113 Resp: 25699

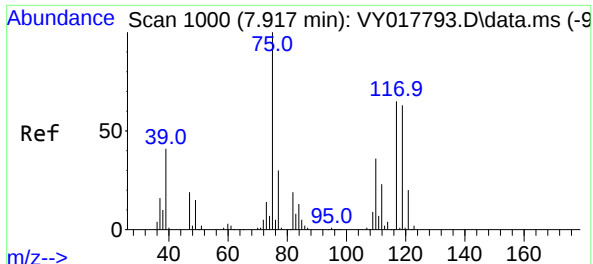
Ion Ratio Lower Upper

113 100

111 102.6 82.2 123.4

192 20.0 15.9 23.9

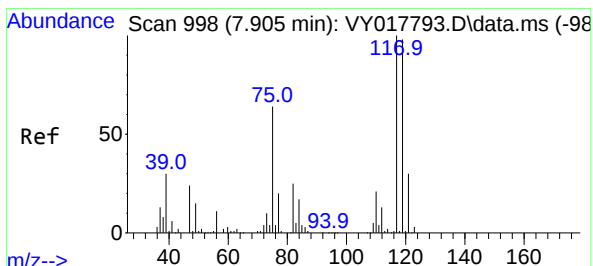
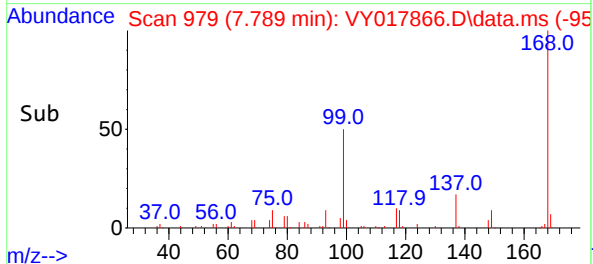
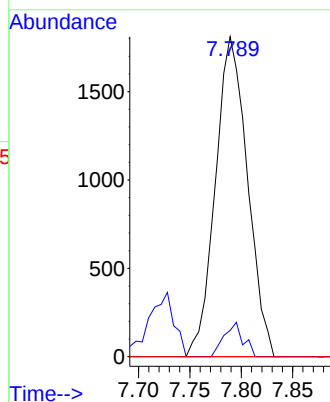
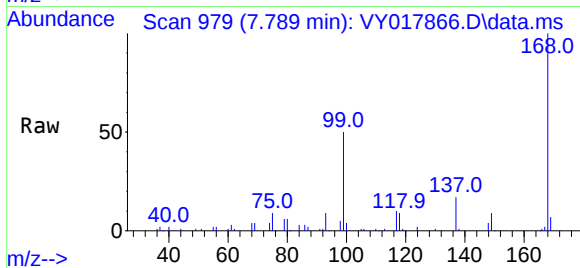




#36
1,1-Dichloropropene
Concen: 6.013 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.128 min
Lab File: VY017866.D
Acq: 05 Apr 2024 13:20

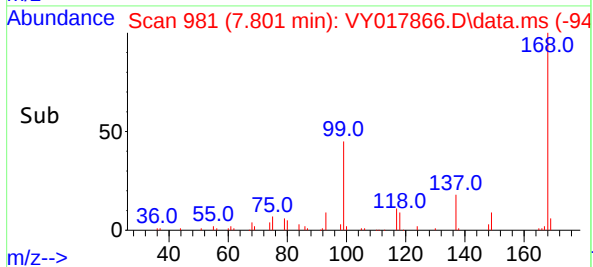
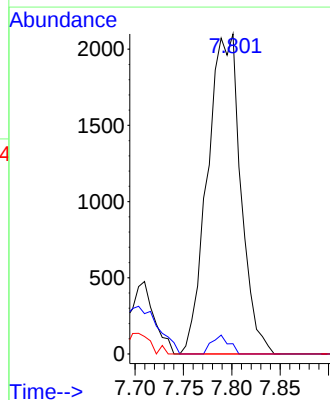
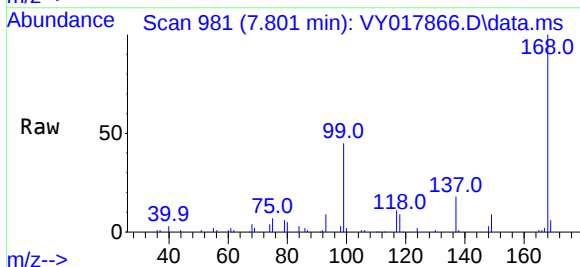
Instrument :
MSVOA_Y
ClientSampleId :
S-846-G3-SO-13-040424

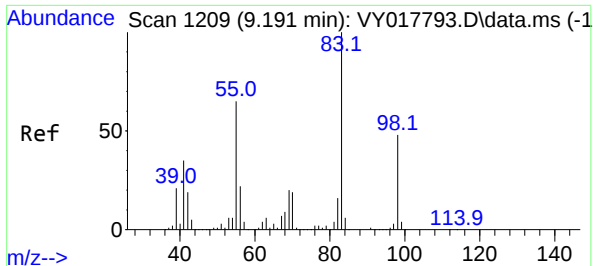
Tgt Ion: 75 Resp: 3929
Ion Ratio Lower Upper
75 100
110 6.4 19.0 57.0#
77 0.0 25.3 37.9#



#38
Carbon Tetrachloride
Concen: 7.389 ug/l
RT: 7.801 min Scan# 981
Delta R.T. -0.104 min
Lab File: VY017866.D
Acq: 05 Apr 2024 13:20

Tgt Ion: 117 Resp: 5012
Ion Ratio Lower Upper
117 100
119 3.2 75.8 113.6#
121 0.0 24.0 36.0#





#39

Methylcyclohexane

Concen: 15.501 ug/l

RT: 8.947 min Scan# 1169

Delta R.T. -0.244 min

Lab File: VY017866.D

Acq: 05 Apr 2024 13:20

Instrument :

MSVOA_Y

ClientSampleId :

S-846-G3-SO-13-040424

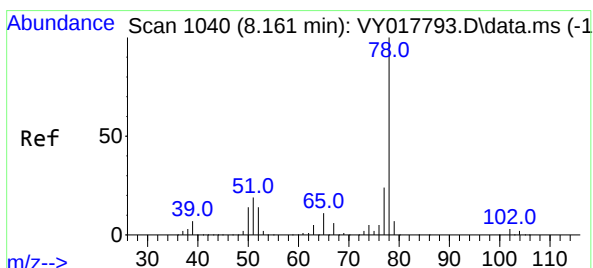
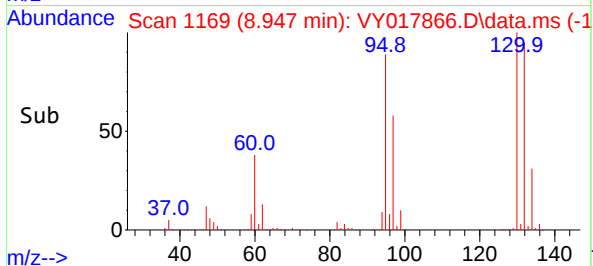
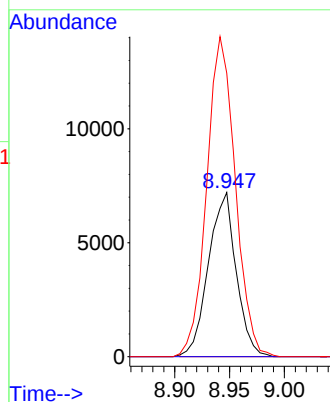
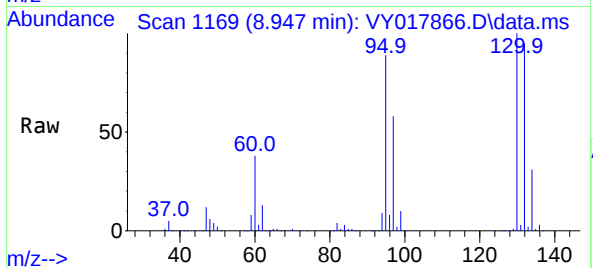
Tgt Ion: 83 Resp: 12652

Ion Ratio Lower Upper

83 100

55 0.0 51.5 77.3#

98 172.7 40.5 60.7#



#40

Benzene

Concen: 1.059 ug/l

RT: 8.161 min Scan# 1040

Delta R.T. -0.000 min

Lab File: VY017866.D

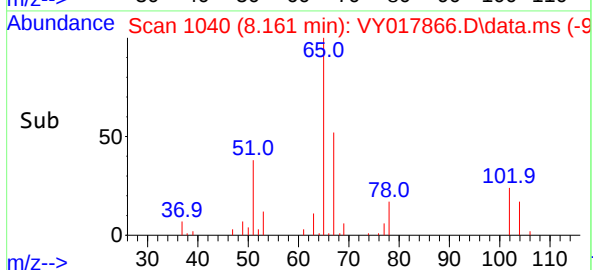
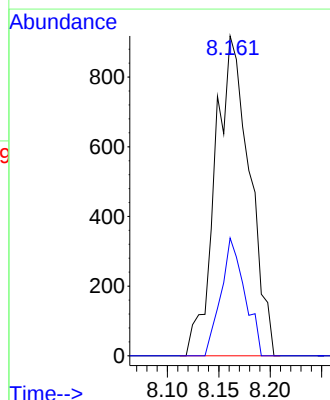
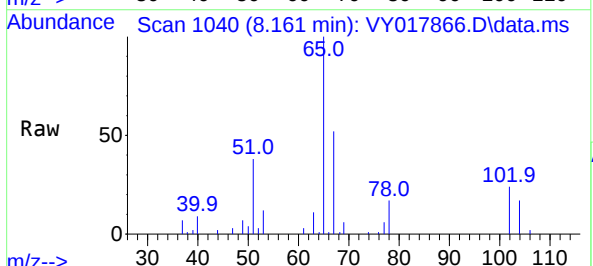
Acq: 05 Apr 2024 13:20

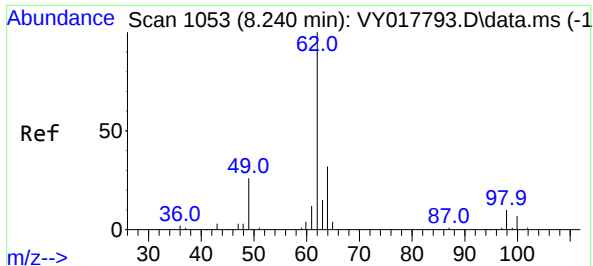
Tgt Ion: 78 Resp: 2132

Ion Ratio Lower Upper

78 100

77 36.8 19.5 29.3#

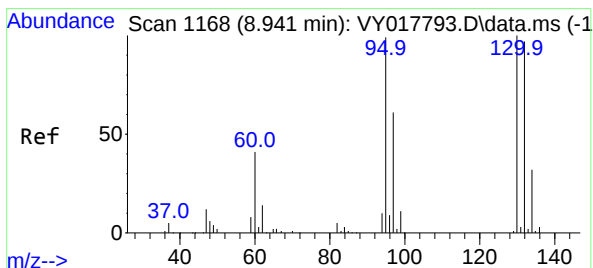
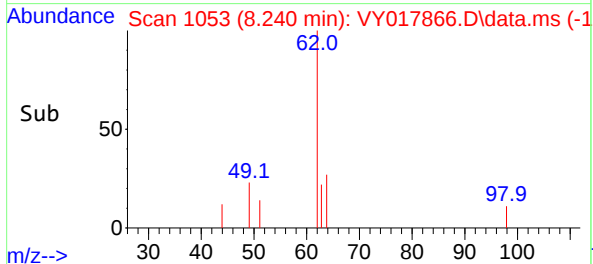
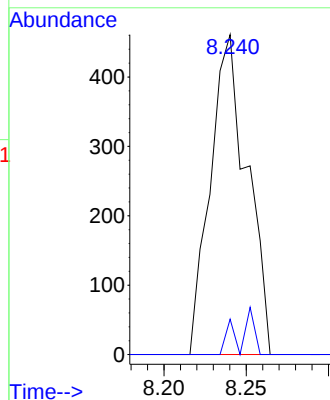
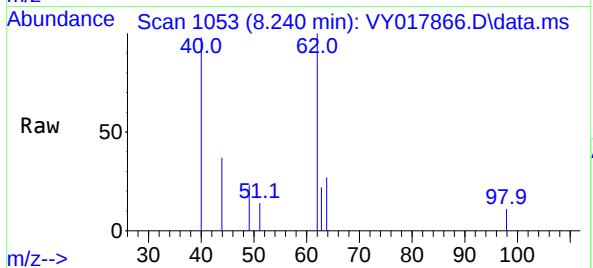




#42
1,2-Dichloroethane
Concen: 1.445 ug/l
RT: 8.240 min Scan# 1053
Delta R.T. 0.000 min
Lab File: VY017866.D
Acq: 05 Apr 2024 13:20

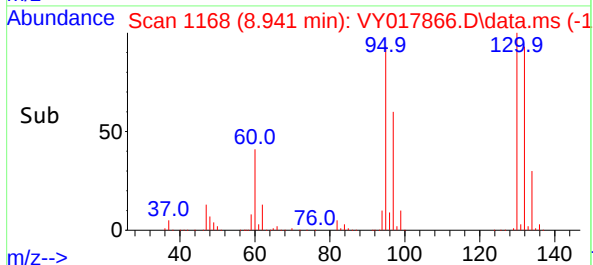
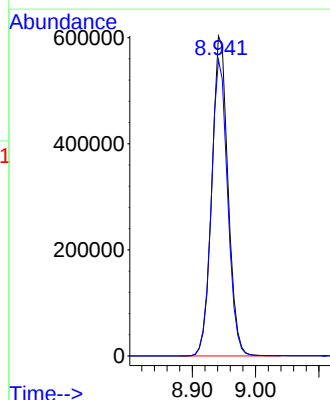
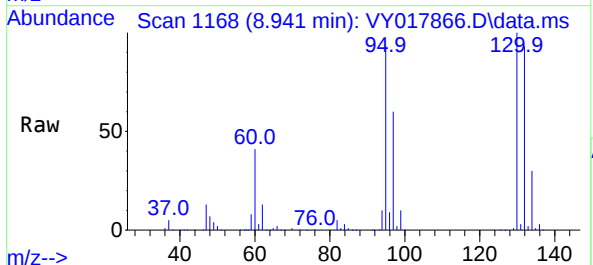
Instrument :
MSVOA_Y
ClientSampleId :
S-846-G3-SO-13-040424

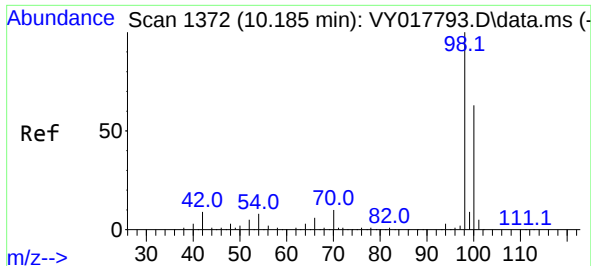
Tgt Ion: 62 Resp: 716
Ion Ratio Lower Upper
62 100
98 2.7 0.0 22.0



#44
Trichloroethene
Concen: 2037.098 ug/l
RT: 8.941 min Scan# 1168
Delta R.T. 0.000 min
Lab File: VY017866.D
Acq: 05 Apr 2024 13:20

Tgt Ion:130 Resp: 1067281
Ion Ratio Lower Upper
130 100
95 92.6 0.0 188.0

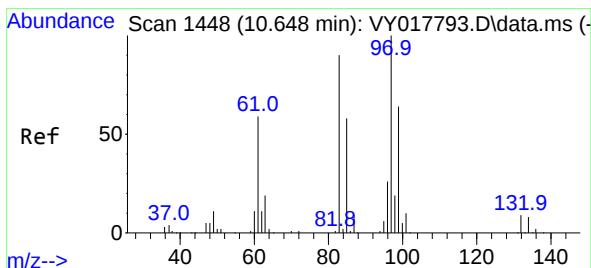
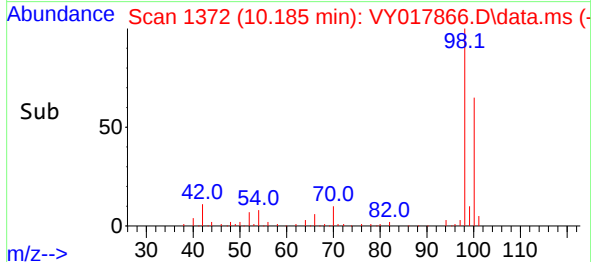
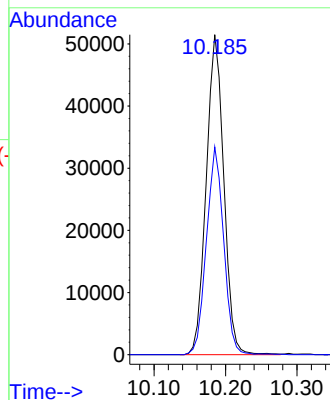
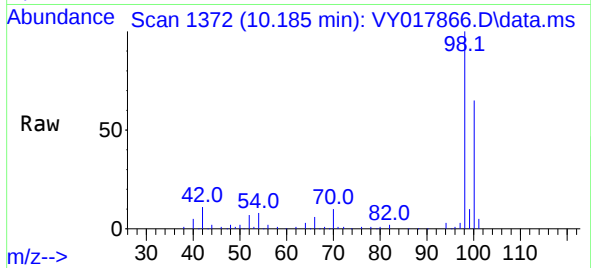




#50
Toluene-d8
Concen: 52.555 ug/l
RT: 10.185 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY017866.D
Acq: 05 Apr 2024 13:20

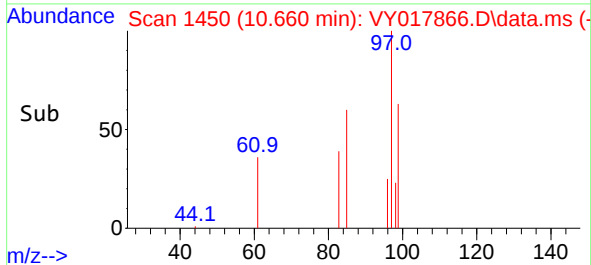
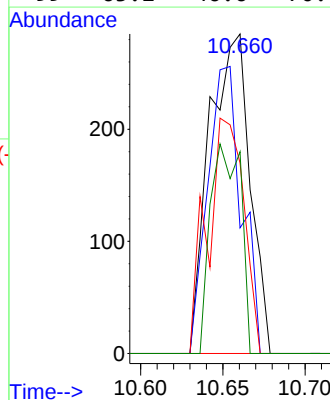
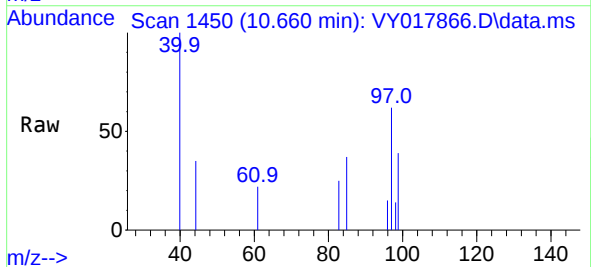
Instrument :
MSVOA_Y
ClientSampleId :
S-846-G3-SO-13-040424

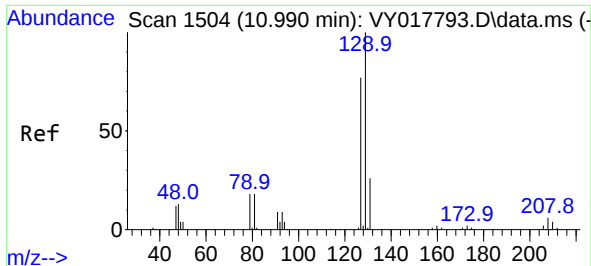
Tgt Ion: 98 Resp: 87919
Ion Ratio Lower Upper
98 100
100 63.8 52.0 78.0



#55
1,1,2-Trichloroethane
Concen: 1.380 ug/l
RT: 10.660 min Scan# 1450
Delta R.T. 0.012 min
Lab File: VY017866.D
Acq: 05 Apr 2024 13:20

Tgt Ion: 97 Resp: 489
Ion Ratio Lower Upper
97 100
83 39.3 67.5 101.3#
85 59.6 42.9 64.3
99 63.2 46.6 70.0

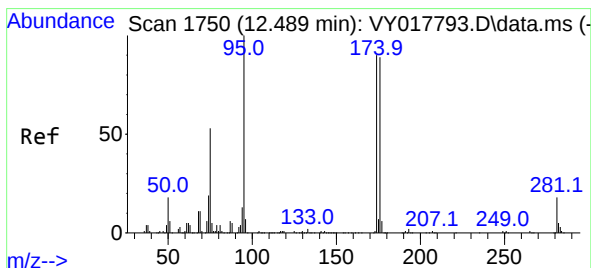
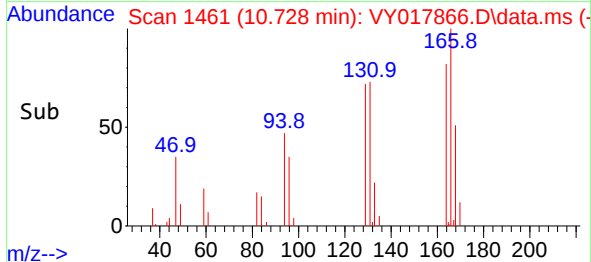
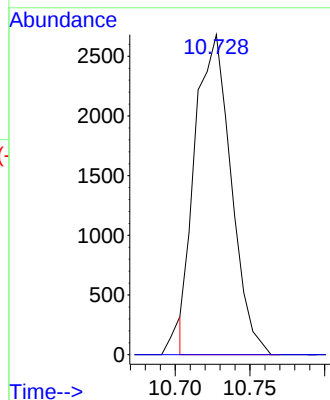
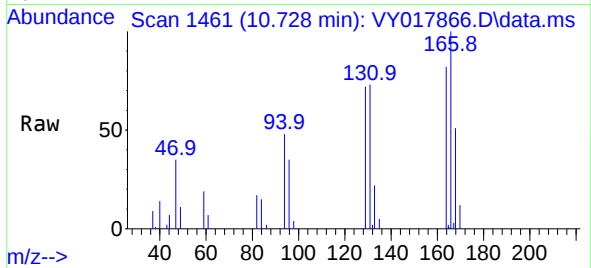




#60
Dibromochloromethane
Concen: 10.052 ug/l
RT: 10.728 min Scan# 14
Delta R.T. -0.262 min
Lab File: VY017866.D
Acq: 05 Apr 2024 13:20

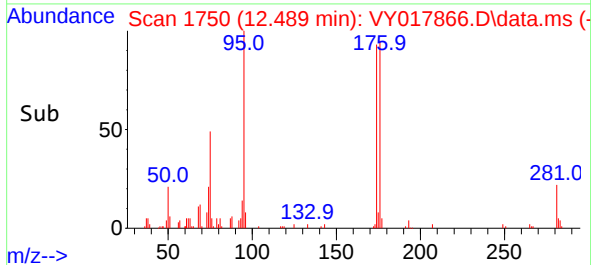
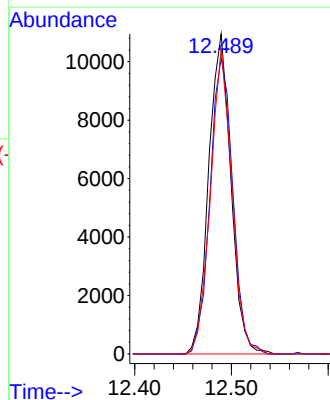
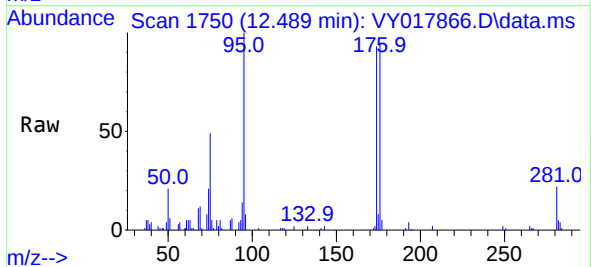
Instrument :
MSVOA_Y
ClientSampleId :
S-846-G3-SO-13-040424

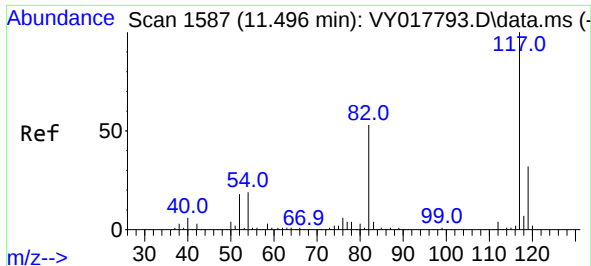
Tgt Ion:129 Resp: 4491
Ion Ratio Lower Upper
129 100
127 0.0 39.0 117.0#



#62
4-Bromofluorobenzene
Concen: 34.320 ug/l
RT: 12.489 min Scan# 1750
Delta R.T. 0.000 min
Lab File: VY017866.D
Acq: 05 Apr 2024 13:20

Tgt Ion: 95 Resp: 17468
Ion Ratio Lower Upper
95 100
174 94.7 0.0 175.6
176 92.0 0.0 171.4

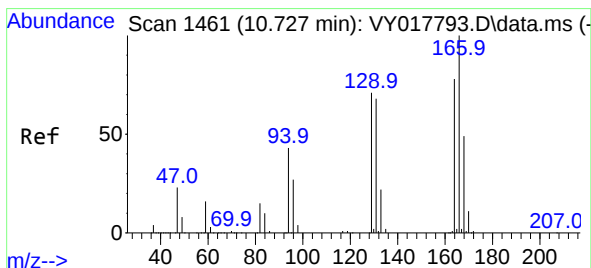
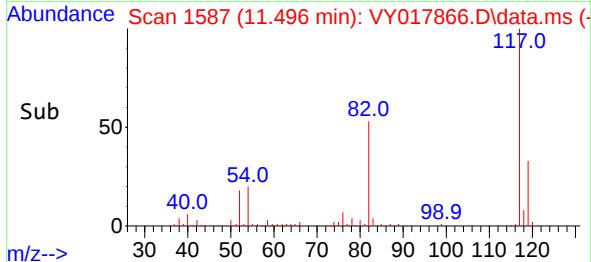
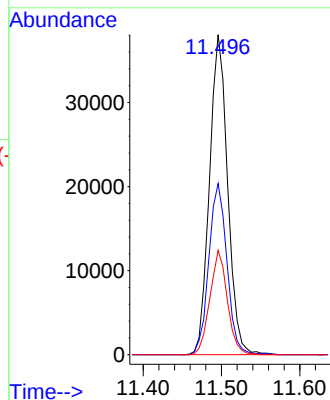
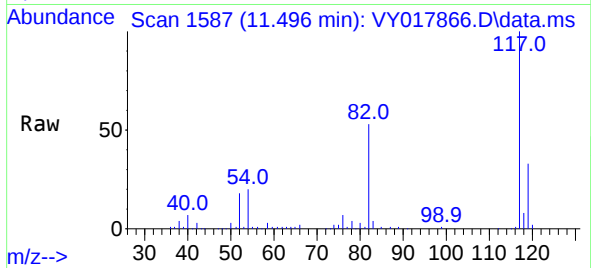




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.496 min Scan# 117
Delta R.T. 0.000 min
Lab File: VY017866.D
Acq: 05 Apr 2024 13:20

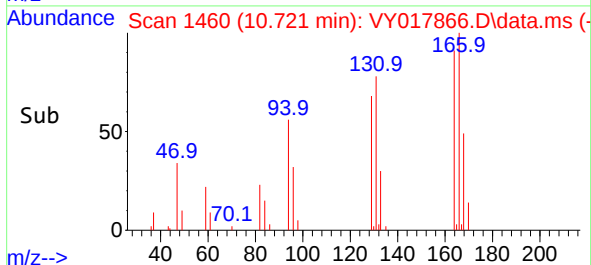
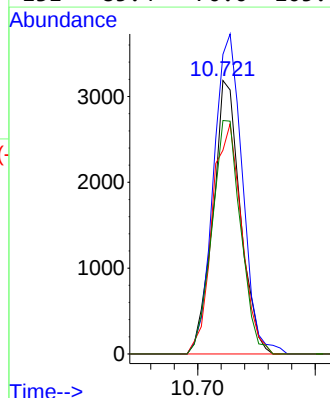
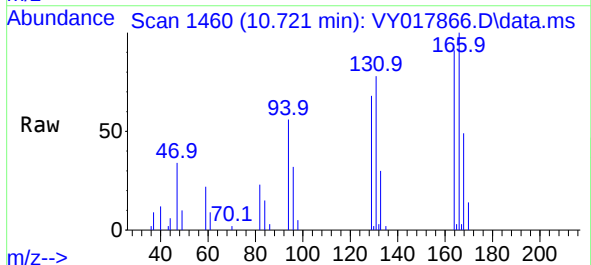
Instrument :
MSVOA_Y
ClientSampleId :
S-846-G3-SO-13-040424

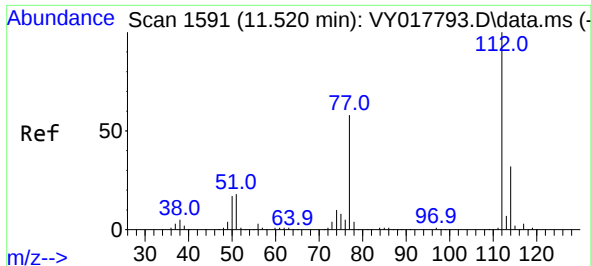
Tgt Ion:	117	Resp:	61331
Ion	Ratio	Lower	Upper
117	100		
82	53.5	42.4	63.6
119	32.6	25.9	38.9



#64
Tetrachloroethene
Concen: 9.631 ug/l
RT: 10.721 min Scan# 1460
Delta R.T. -0.006 min
Lab File: VY017866.D
Acq: 05 Apr 2024 13:20

Tgt Ion:	164	Resp:	5152
Ion	Ratio	Lower	Upper
164	100		
166	109.5	102.6	154.0
129	74.5	72.0	108.0
131	85.4	70.0	105.0

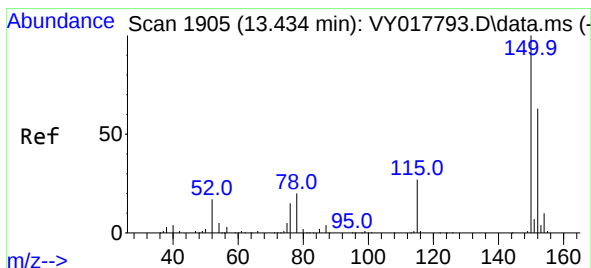
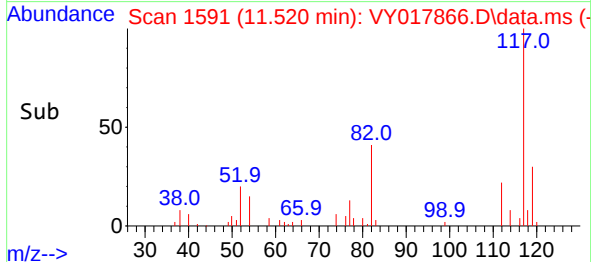
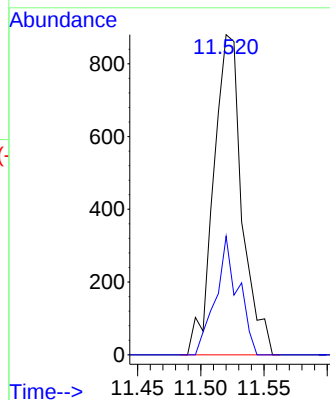
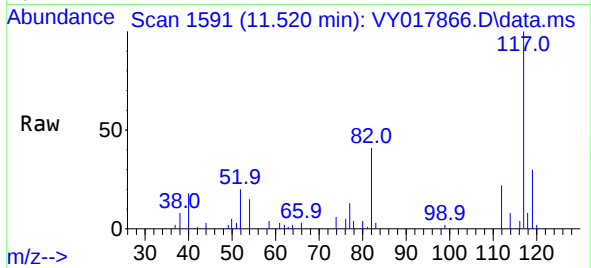




#65
Chlorobenzene
Concen: 1.094 ug/l
RT: 11.520 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY017866.D
Acq: 05 Apr 2024 13:20

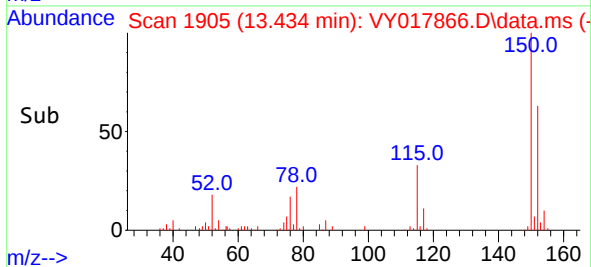
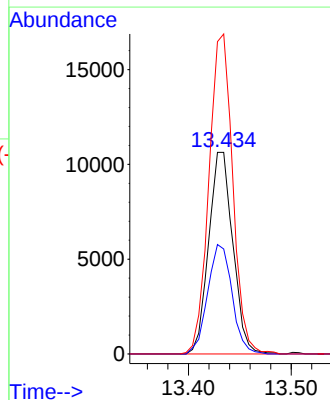
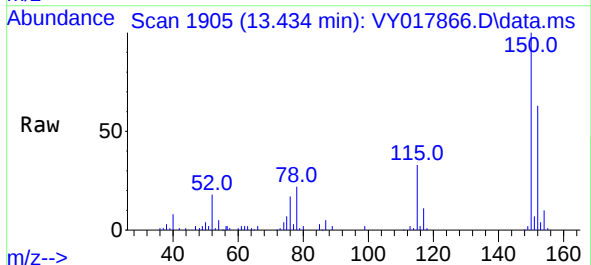
Instrument :
MSVOA_Y
ClientSampleId :
S-846-G3-SO-13-040424

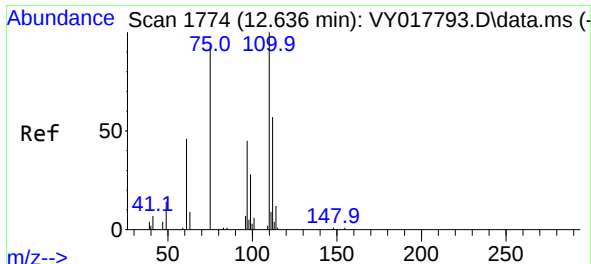
Tgt Ion:112 Resp: 1377
Ion Ratio Lower Upper
112 100
114 37.0 26.4 39.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.434 min Scan# 1905
Delta R.T. 0.000 min
Lab File: VY017866.D
Acq: 05 Apr 2024 13:20

Tgt Ion:152 Resp: 17431
Ion Ratio Lower Upper
152 100
115 54.7 28.2 84.7
150 155.9 0.0 345.6

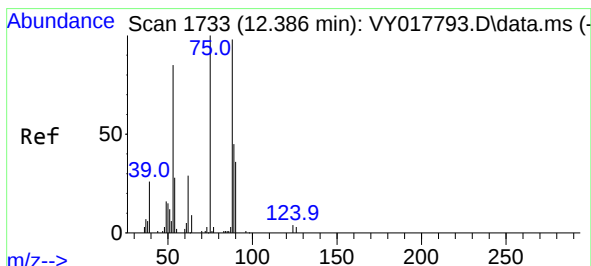
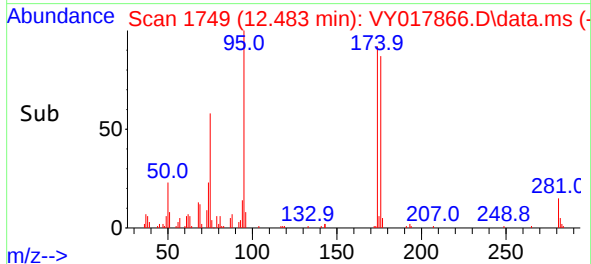
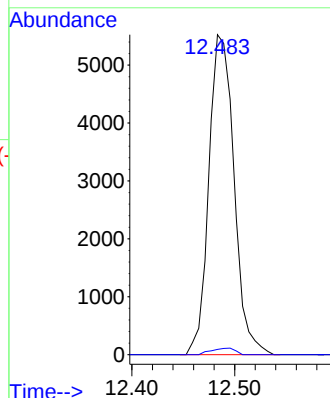
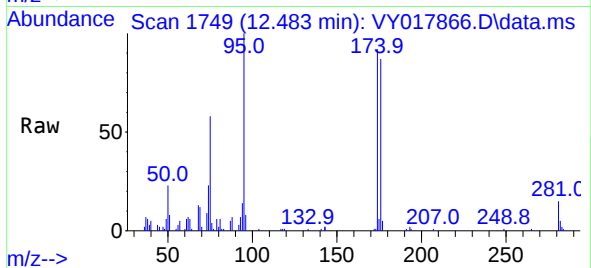




#76
1,2,3-Trichloropropane
Concen: 59.116 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. -0.152 min
Lab File: VY017866.D
Acq: 05 Apr 2024 13:20

Instrument :
MSVOA_Y
ClientSampleId :
S-846-G3-SO-13-040424

Tgt Ion: 75 Resp: 9390
Ion Ratio Lower Upper
75 100
77 1.9 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 113.219 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.097 min
Lab File: VY017866.D
Acq: 05 Apr 2024 13:20

Tgt Ion: 75 Resp: 9390
Ion Ratio Lower Upper
75 100
53 0.0 66.8 100.2#
89 0.0 35.8 53.6#

