

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY053024\
 Data File : VY018409.D
 Acq On : 30 May 2024 13:05
 Operator : SY/MD
 Sample : P2610-01
 Misc : 5.08g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: May 31 01:00:43 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052224S.M
 Quant Title : SW846 8260
 QLast Update : Thu May 23 01:40:36 2024
 Response via : Initial Calibration

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

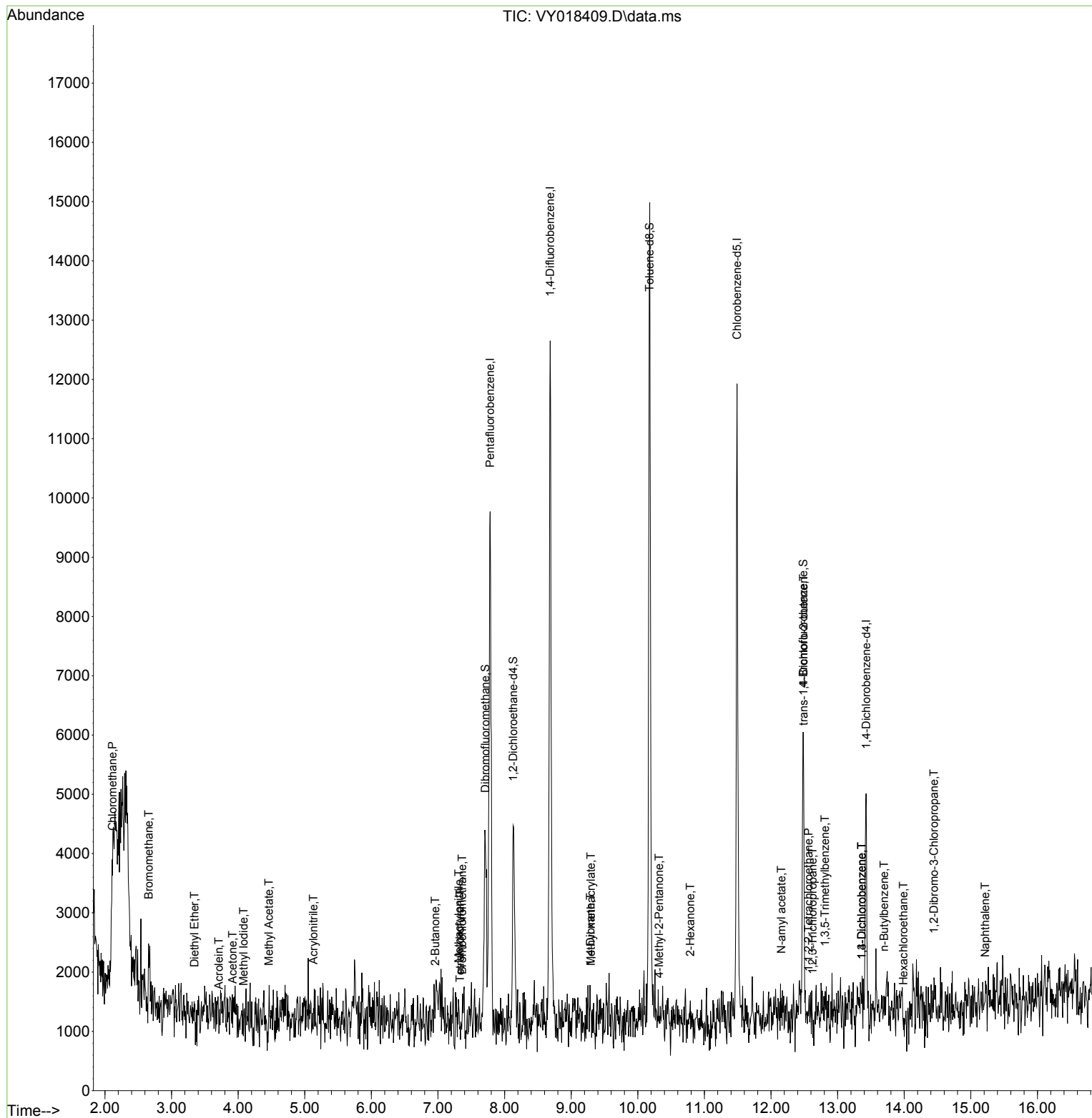
Internal Standards						
1) Pentafluorobenzene	7.783	168	5817	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.685	114	8952	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	5335	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	895	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.130	65	2369	42.986	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	85.980%
35) Dibromofluoromethane	7.710	113	2652	50.801	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	101.600%
50) Toluene-d8	10.179	98	8778	43.128	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	86.260%
62) 4-Bromofluorobenzene	12.483	95	1777	28.256	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	56.520%
Target Compounds						
						Qvalue
3) Chloromethane	2.113	50	184	2.280	ug/l	# 43
5) Bromomethane	2.656	94	256	3.967	ug/l	89
8) Diethyl Ether	3.345	74	48	1.484	ug/l	96
10) Methyl Iodide	4.082	142	435	6.922	ug/l	# 42
11) Tert butyl alcohol	5.021	59	90	Below Cal	#	88
13) Acrolein	3.710	56	79	2.470	ug/l	# 15
15) Acrylonitrile	5.131	53	95	6.791	ug/l	# 35
16) Acetone	3.918	43	232	20.467	ug/l	# 36
18) Methyl Acetate	4.460	43	36	1.198	ug/l	# 46
20) Methylene Chloride	4.716	84	116	Below Cal	#	54
25) 2-Butanone	6.960	43	169	9.408	ug/l	# 41
28) Bromochloromethane	7.362	49	47	1.263	ug/l	# 61
29) Tetrahydrofuran	7.332	42	76	6.428	ug/l	# 26
41) Methacrylonitrile	7.313	41	42	2.323	ug/l	# 1
48) Methyl methacrylate	9.295	41	63	1.971	ug/l	# 30
49) 1,4-Dioxane	9.289	88	21	53.140	ug/l	# 1
51) 4-Methyl-2-Pentanone	10.319	43	52	1.458	ug/l	98
59) 2-Hexanone	10.788	43	25	1.019	ug/l	78
74) N-amyl acetate	12.154	43	28	1.706	ug/l	# 37
75) 1,1,2,2-Tetrachloroethane	12.562	83	18	1.502	ug/l	# 1
76) 1,2,3-Trichloropropane	12.623	75	40	4.973	ug/l	# 100
80) 1,3,5-Trimethylbenzene	12.812	105	107	1.936	ug/l	# 27
81) trans-1,4-Dichloro-2-b...	12.489	75	789	201.809	ug/l	# 16
87) 1,3-Dichlorobenzene	13.361	146	50	1.648	ug/l	# 58
88) 1,4-Dichlorobenzene	13.361	146	50	1.656	ug/l	# 60
89) n-Butylbenzene	13.696	91	69	1.188	ug/l	# 42
90) Hexachloroethane	13.989	117	21	1.840	ug/l	# 12
92) 1,2-Dibromo-3-Chloropr...	14.446	75	24	14.598	ug/l	# 1
95) Naphthalene	15.214	128	66	2.238	ug/l	# 32

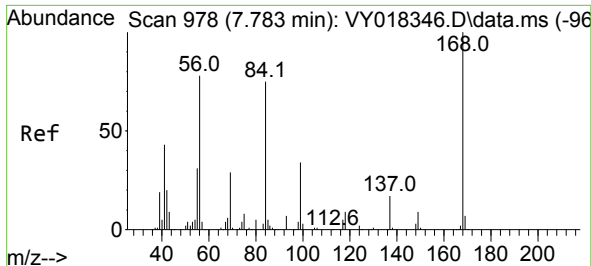
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY053024\
Data File : VY018409.D
Acq On : 30 May 2024 13:05
Operator : SY/MD
Sample : P2610-01
Misc : 5.08g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :

Quant Time: May 31 01:00:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052224S.M
Quant Title : SW846 8260
QLast Update : Thu May 23 01:40:36 2024
Response via : Initial Calibration

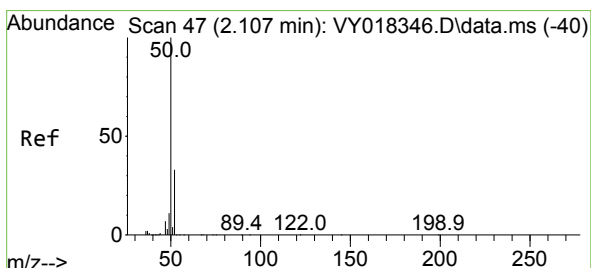
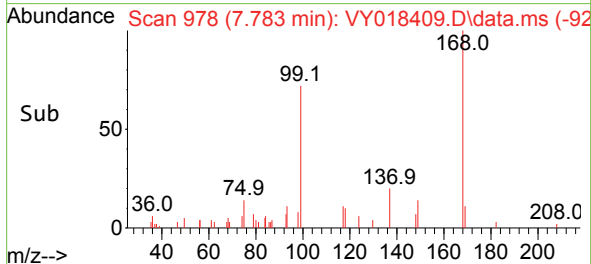
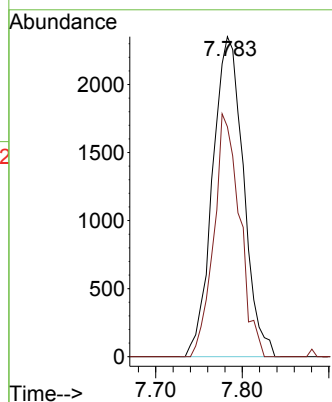
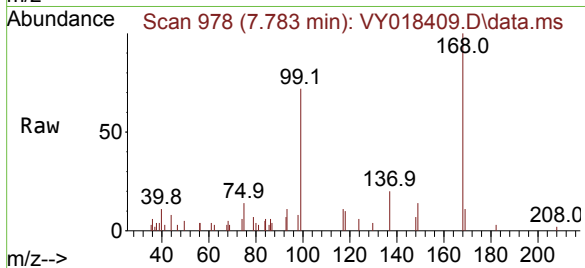




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY018409.D
Acq: 30 May 2024 13:05

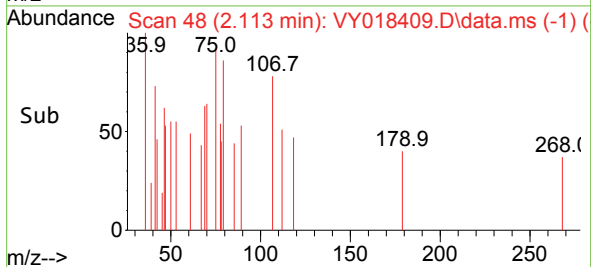
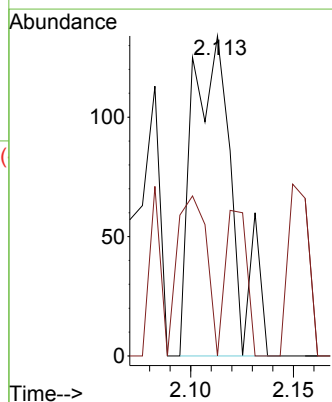
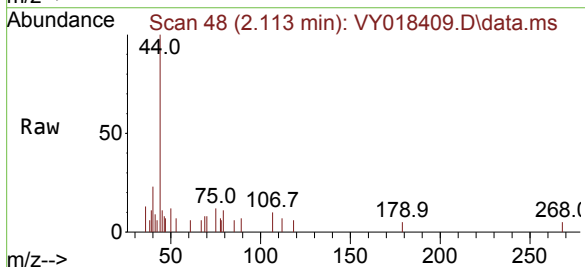
Instrument :
MSVOA_Y
ClientSampleId :

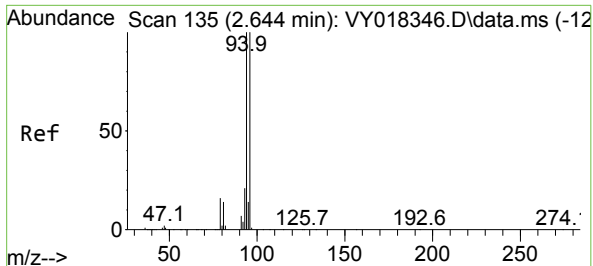
Tgt Ion:168 Resp: 5817
Ion Ratio Lower Upper
168 100
99 71.9 39.1 58.7#



#3
Chloromethane
Concen: 2.280 ug/l
RT: 2.113 min Scan# 48
Delta R.T. 0.006 min
Lab File: VY018409.D
Acq: 30 May 2024 13:05

Tgt Ion: 50 Resp: 184
Ion Ratio Lower Upper
50 100
52 0.0 25.6 38.4#

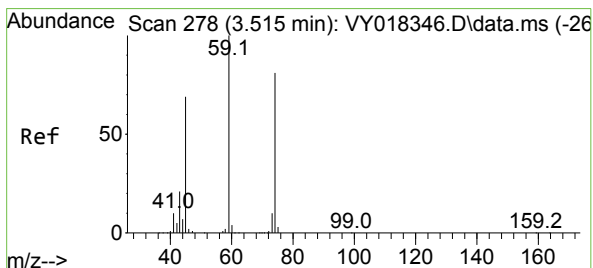
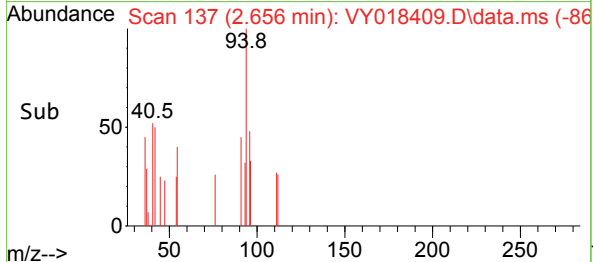
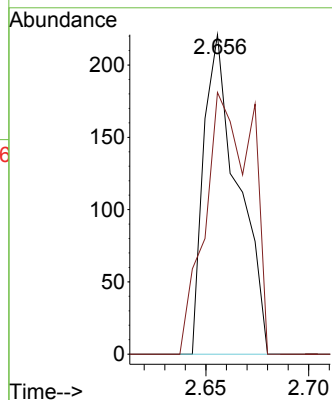
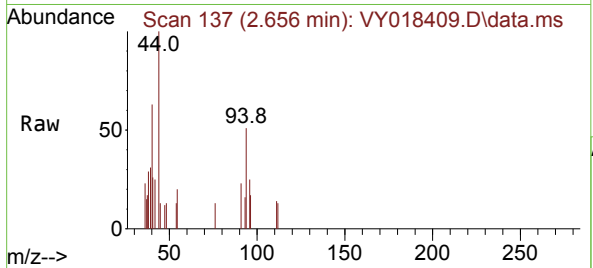




#5
Bromomethane
Concen: 3.967 ug/l
RT: 2.656 min Scan# 11
Delta R.T. 0.012 min
Lab File: VY018409.D
Acq: 30 May 2024 13:05

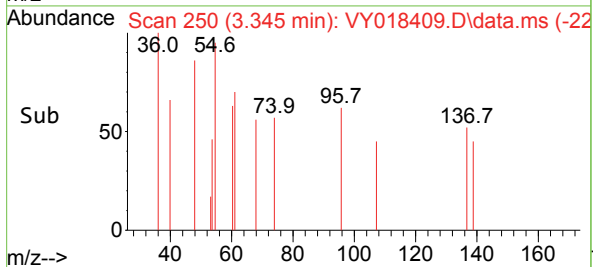
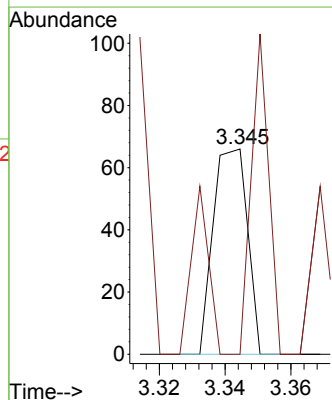
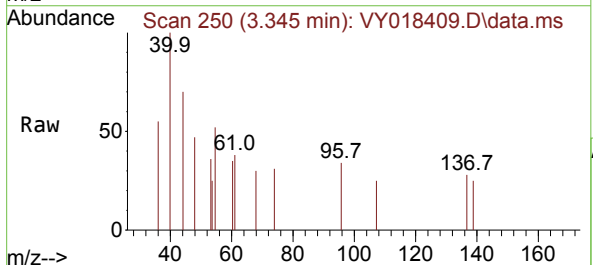
Instrument :
MSVOA_Y
ClientSampleId :

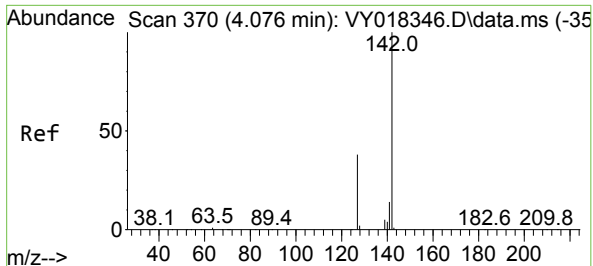
Tgt Ion: 94 Resp: 256
Ion Ratio Lower Upper
94 100
96 81.9 74.1 111.1



#8
Diethyl Ether
Concen: 1.484 ug/l
RT: 3.345 min Scan# 250
Delta R.T. -0.171 min
Lab File: VY018409.D
Acq: 30 May 2024 13:05

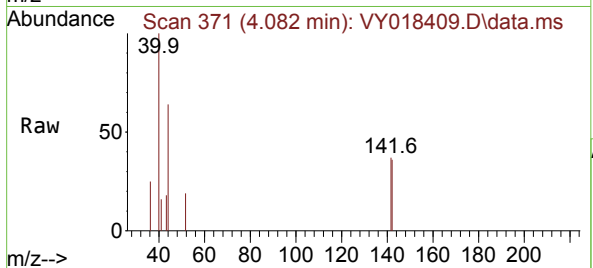
Tgt Ion: 74 Resp: 48
Ion Ratio Lower Upper
74 100
45 79.2 41.3 124.1



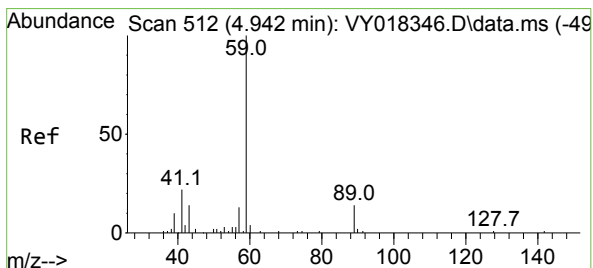
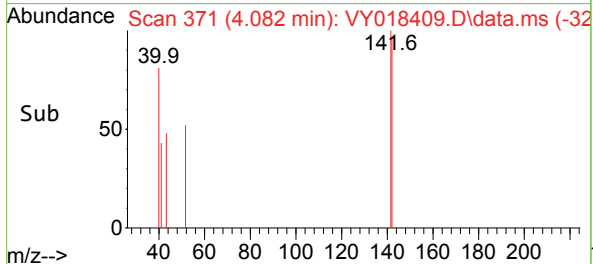
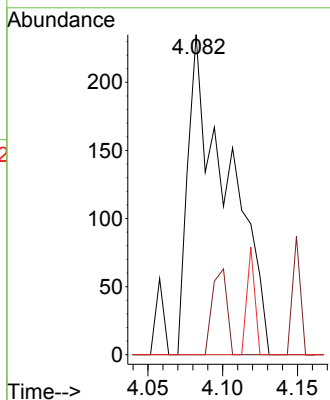


#10
Methyl Iodide
Concen: 6.922 ug/l
RT: 4.082 min Scan# 31
Delta R.T. 0.006 min
Lab File: VY018409.D
Acq: 30 May 2024 13:05

Instrument :
MSVOA_Y
ClientSampleId :

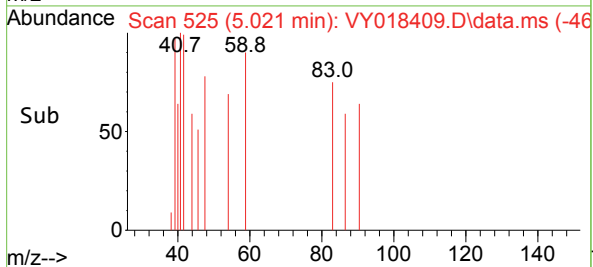
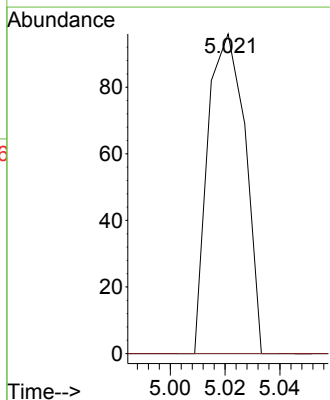
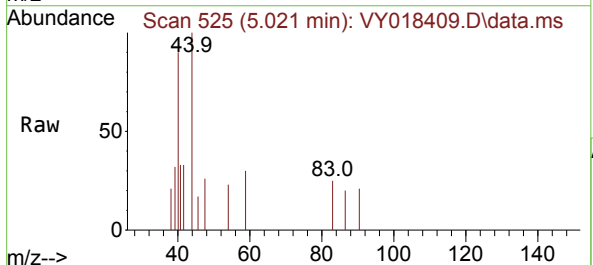


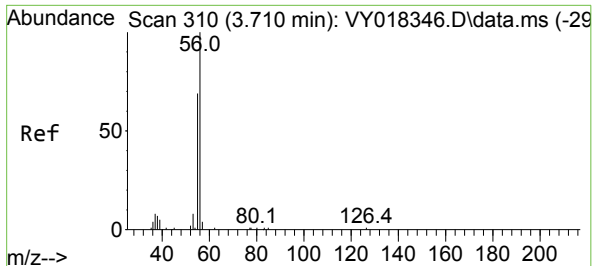
Tgt Ion:142 Resp: 435
Ion Ratio Lower Upper
142 100
127 0.0 32.8 49.2#
141 0.0 11.4 17.2#



#11
Tert butyl alcohol
Concen: Below Cal
RT: 5.021 min Scan# 525
Delta R.T. 0.079 min
Lab File: VY018409.D
Acq: 30 May 2024 13:05

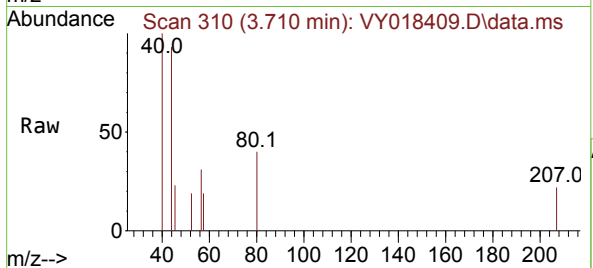
Tgt Ion: 59 Resp: 90
Ion Ratio Lower Upper
59 100
57 0.0 3.0 4.6#



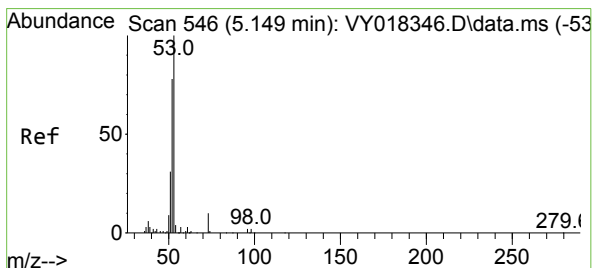
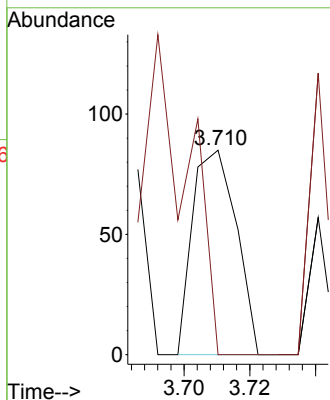
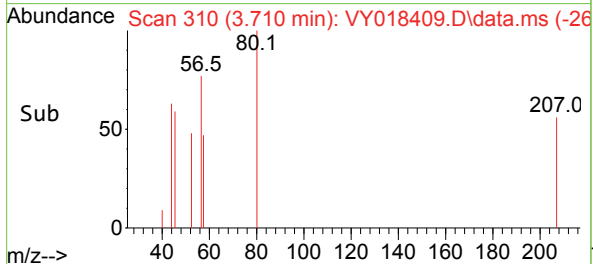


#13
Acrolein
Concen: 2.470 ug/l
RT: 3.710 min Scan# 310
Delta R.T. 0.000 min
Lab File: VY018409.D
Acq: 30 May 2024 13:05

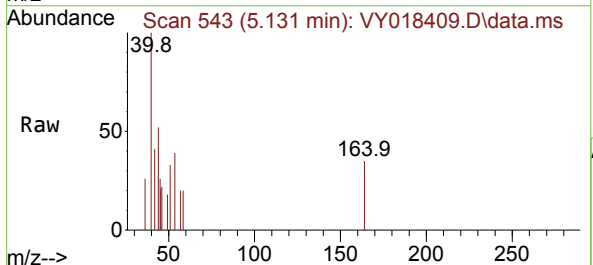
Instrument :
MSVOA_Y
ClientSampleId :



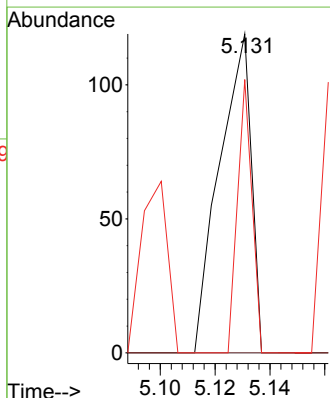
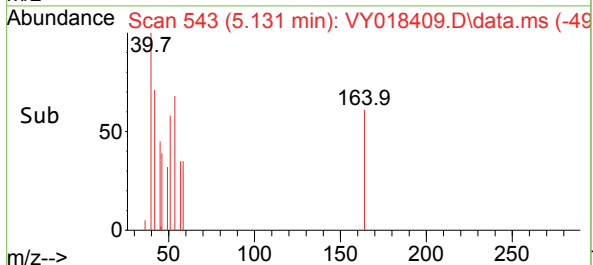
Tgt Ion: 56 Resp: 79
Ion Ratio Lower Upper
56 100
55 0.0 55.7 83.5#

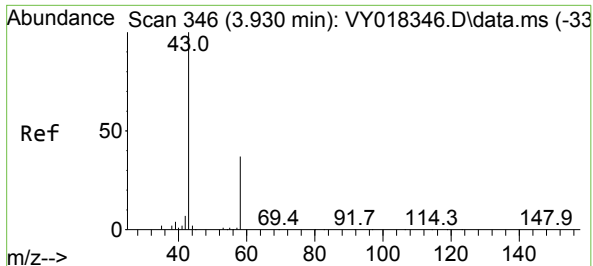


#15
Acrylonitrile
Concen: 6.791 ug/l
RT: 5.131 min Scan# 543
Delta R.T. -0.018 min
Lab File: VY018409.D
Acq: 30 May 2024 13:05



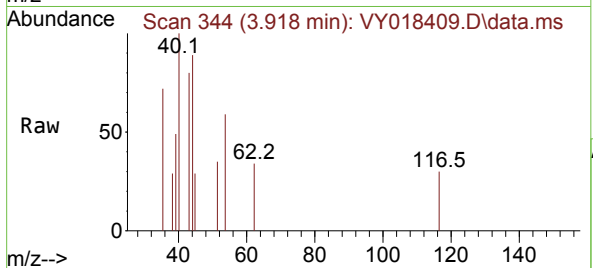
Tgt Ion: 53 Resp: 95
Ion Ratio Lower Upper
53 100
52 0.0 64.7 97.1#
51 38.9 28.4 42.6



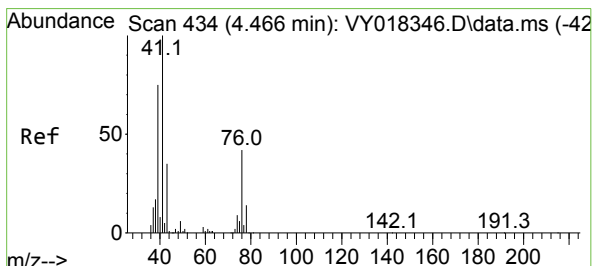
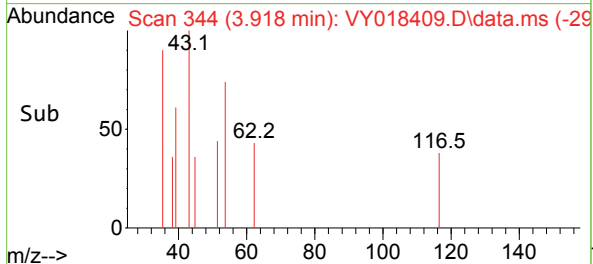
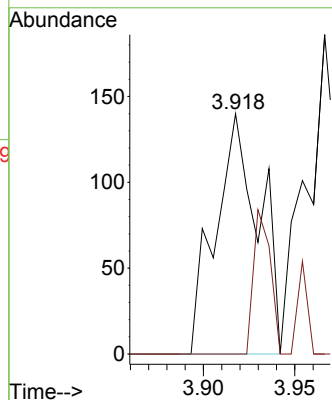


#16
Acetone
Concen: 20.467 ug/l
RT: 3.918 min Scan# 346
Delta R.T. -0.012 min
Lab File: VY018409.D
Acq: 30 May 2024 13:05

Instrument :
MSVOA_Y
ClientSampleId :

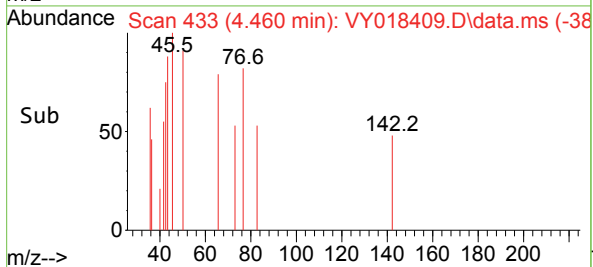
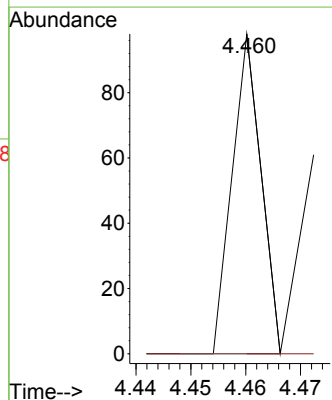
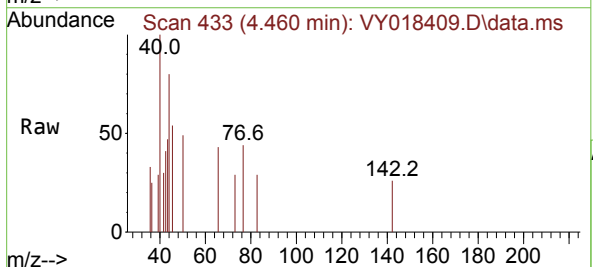


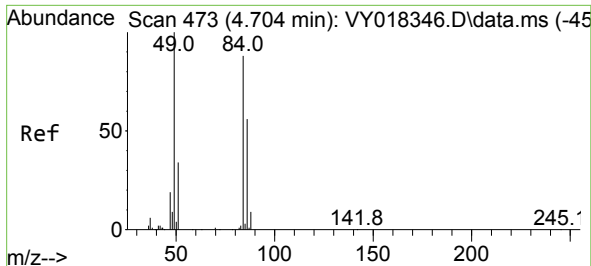
Tgt Ion: 43 Resp: 232
Ion Ratio Lower Upper
43 100
58 0.0 31.7 47.5#



#18
Methyl Acetate
Concen: 1.198 ug/l
RT: 4.460 min Scan# 433
Delta R.T. -0.006 min
Lab File: VY018409.D
Acq: 30 May 2024 13:05

Tgt Ion: 43 Resp: 36
Ion Ratio Lower Upper
43 100
74 0.0 23.3 34.9#





#20

Methylene Chloride

Concen: Below Cal

RT: 4.716 min Scan# 41

Delta R.T. 0.012 min

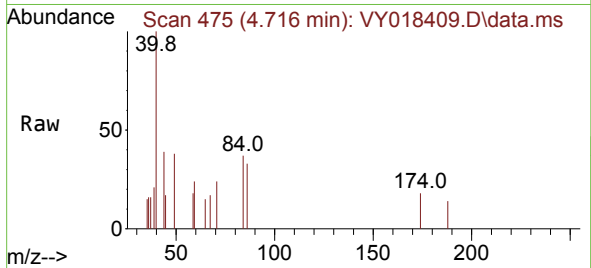
Lab File: VY018409.D

Acq: 30 May 2024 13:05

Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion: 84 Resp: 116

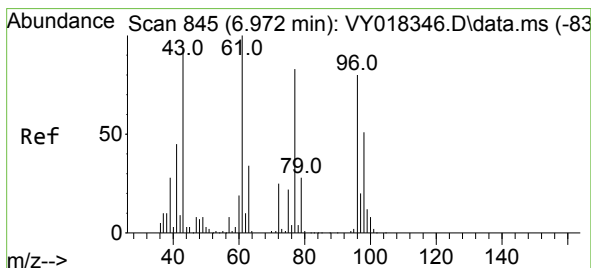
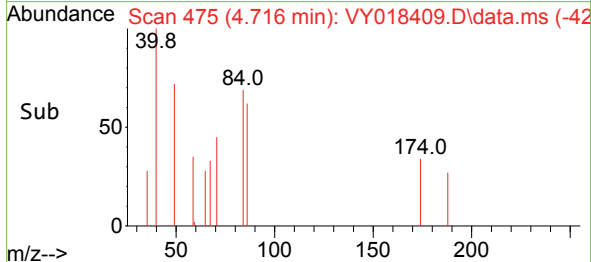
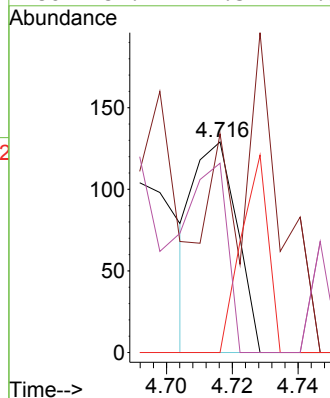
Ion Ratio Lower Upper

84 100

49 55.8 84.4 126.6#

51 0.0 26.0 39.0#

86 89.9 49.5 74.3#



#25

2-Butanone

Concen: 9.408 ug/l

RT: 6.960 min Scan# 843

Delta R.T. -0.012 min

Lab File: VY018409.D

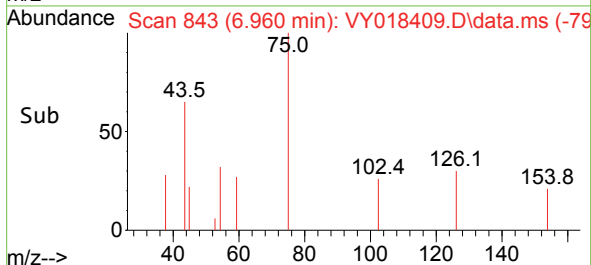
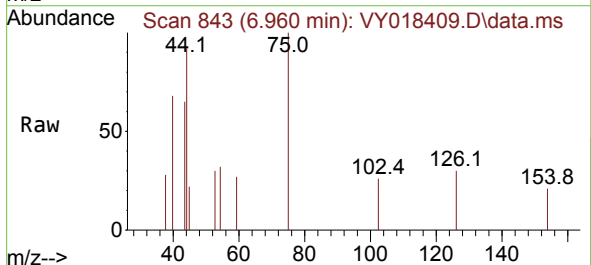
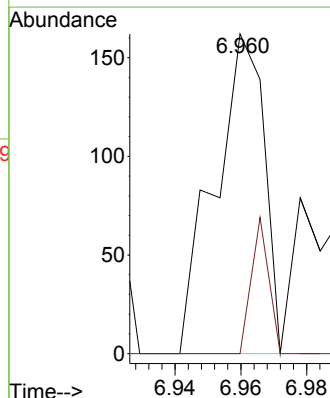
Acq: 30 May 2024 13:05

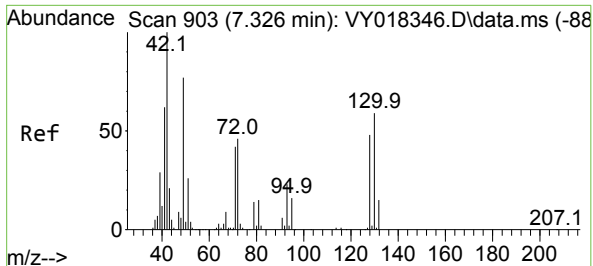
Tgt Ion: 43 Resp: 169

Ion Ratio Lower Upper

43 100

72 0.0 27.3 40.9#





#28

Bromochloromethane

Concen: 1.263 ug/l

RT: 7.362 min Scan# 909

Delta R.T. 0.037 min

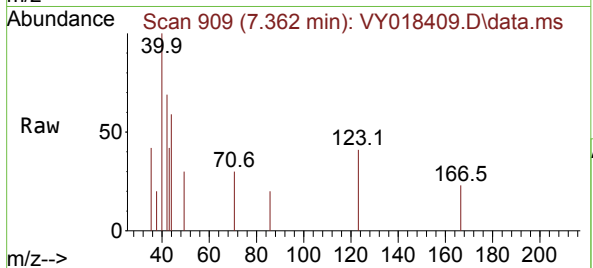
Lab File: VY018409.D

Acq: 30 May 2024 13:05

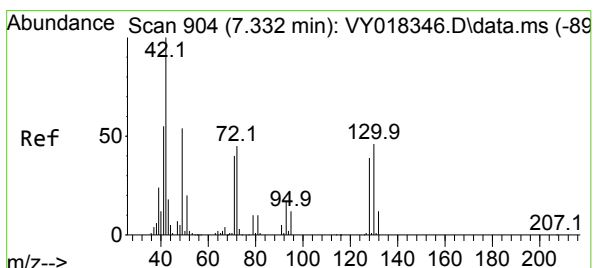
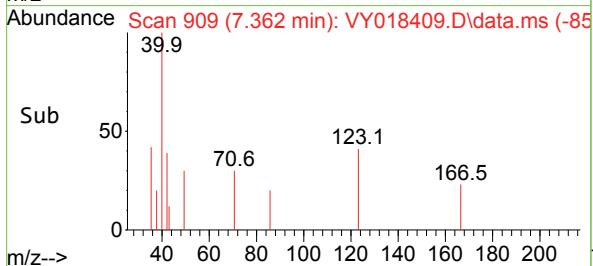
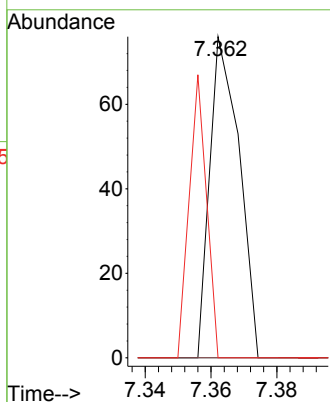
Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion:	49	Resp:	47
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.6
130	53.2	72.7	109.1#



#29

Tetrahydrofuran

Concen: 6.428 ug/l

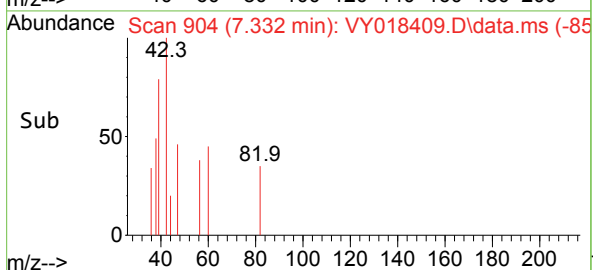
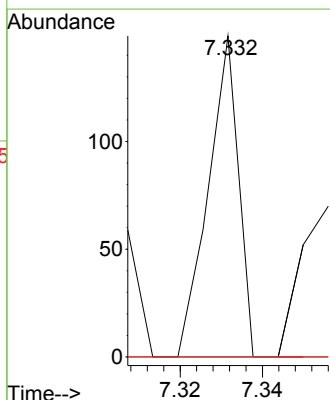
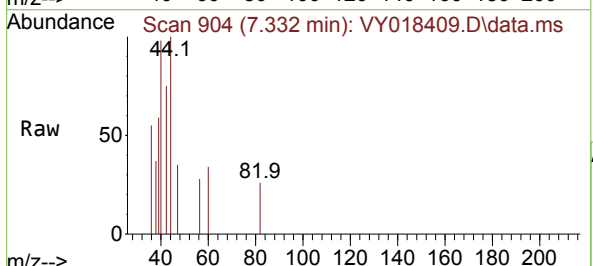
RT: 7.332 min Scan# 904

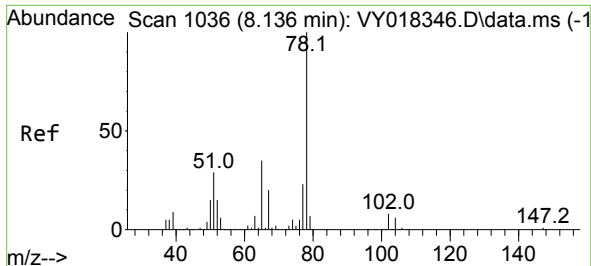
Delta R.T. -0.000 min

Lab File: VY018409.D

Acq: 30 May 2024 13:05

Tgt Ion:	42	Resp:	76
Ion	Ratio	Lower	Upper
42	100		
72	0.0	43.0	64.4#
71	0.0	40.8	61.2#

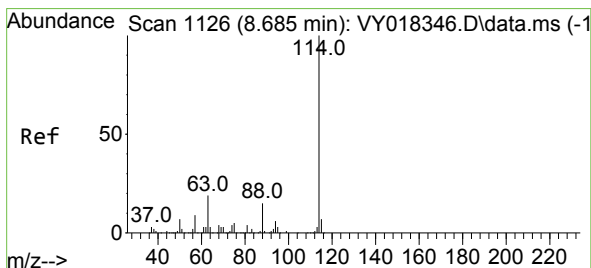
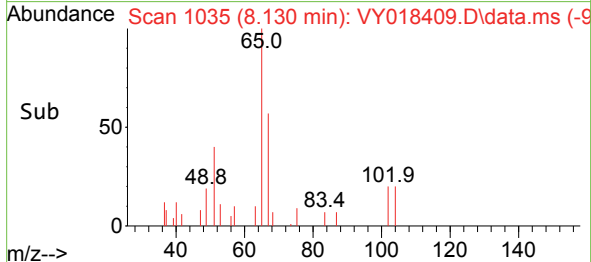
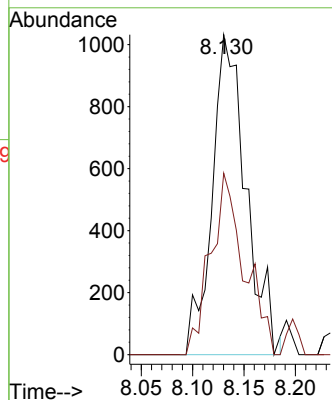
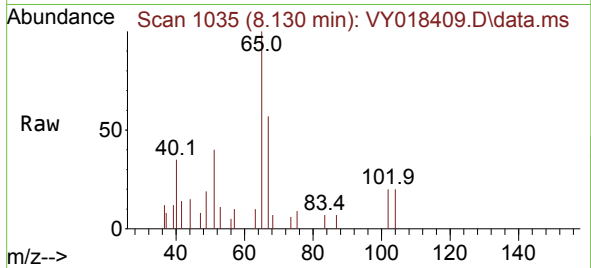




#33
1,2-Dichloroethane-d4
Concen: 42.986 ug/l
RT: 8.130 min Scan# 1036
Delta R.T. -0.006 min
Lab File: VY018409.D
Acq: 30 May 2024 13:05

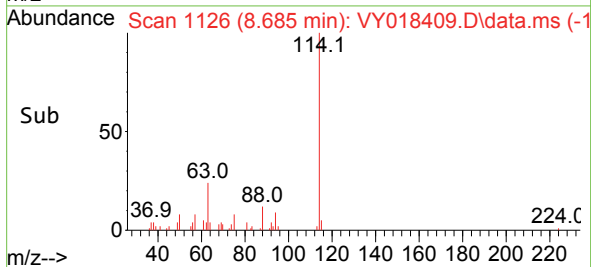
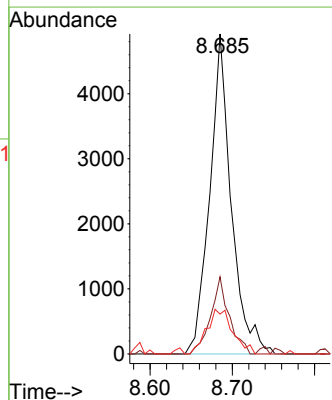
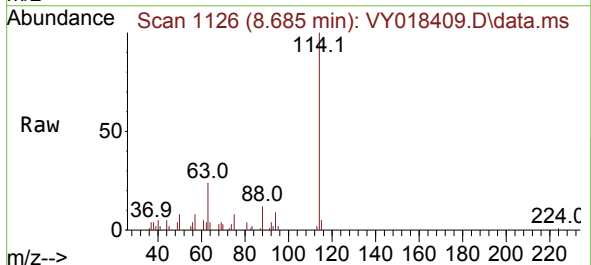
Instrument :
MSVOA_Y
ClientSampleId :

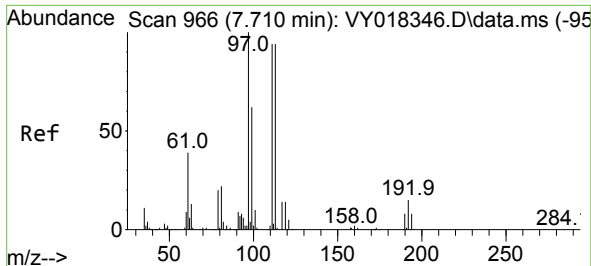
Tgt Ion: 65 Resp: 2369
Ion Ratio Lower Upper
65 100
67 56.5 0.0 109.6



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.685 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VY018409.D
Acq: 30 May 2024 13:05

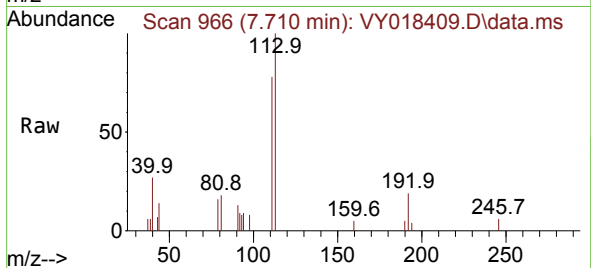
Tgt Ion: 114 Resp: 8952
Ion Ratio Lower Upper
114 100
63 24.1 0.0 35.0
88 12.4 0.0 27.2



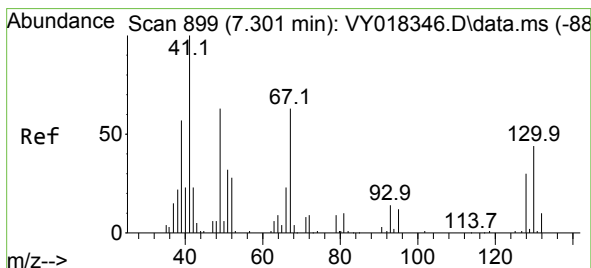
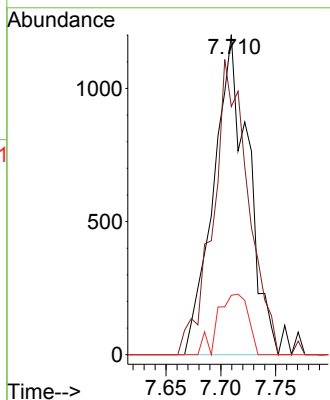
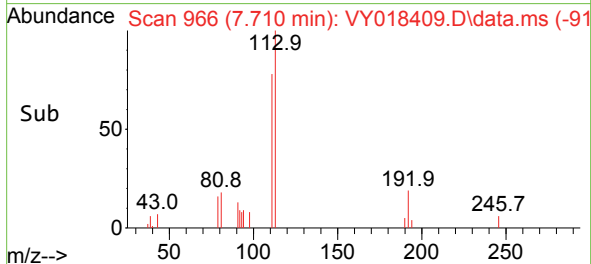


#35
Dibromofluoromethane
Concen: 50.801 ug/l
RT: 7.710 min Scan# 901
Delta R.T. -0.000 min
Lab File: VY018409.D
Acq: 30 May 2024 13:05

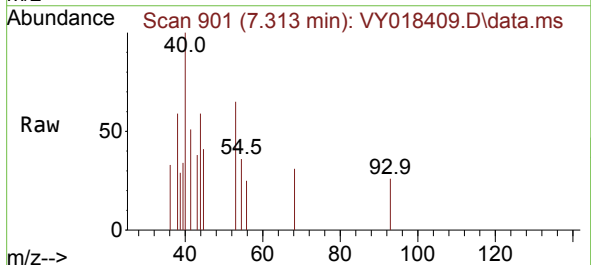
Instrument :
MSVOA_Y
ClientSampleId :



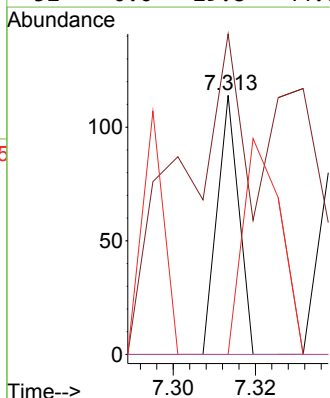
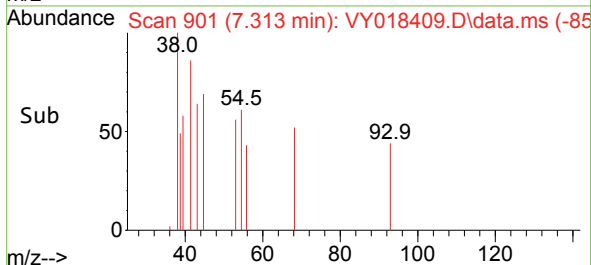
Tgt Ion:113 Resp: 2652
Ion Ratio Lower Upper
113 100
111 93.1 82.2 123.4
192 16.6 15.9 23.9

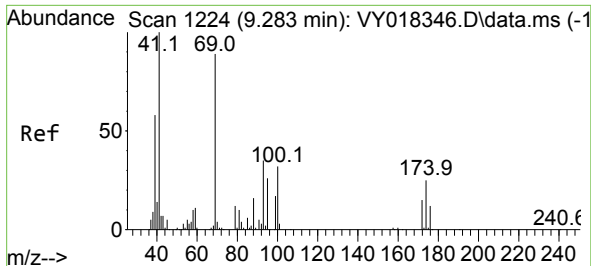


#41
Methacrylonitrile
Concen: 2.323 ug/l
RT: 7.313 min Scan# 901
Delta R.T. 0.012 min
Lab File: VY018409.D
Acq: 30 May 2024 13:05



Tgt Ion: 41 Resp: 42
Ion Ratio Lower Upper
41 100
39 376.2 48.0 72.0#
67 142.9 75.1 112.7#
52 0.0 29.8 44.6#





#48

Methyl methacrylate

Concen: 1.971 ug/l

RT: 9.295 min Scan# 11

Delta R.T. 0.012 min

Lab File: VY018409.D

Acq: 30 May 2024 13:05

Instrument :

MSVOA_Y

ClientSampleId :

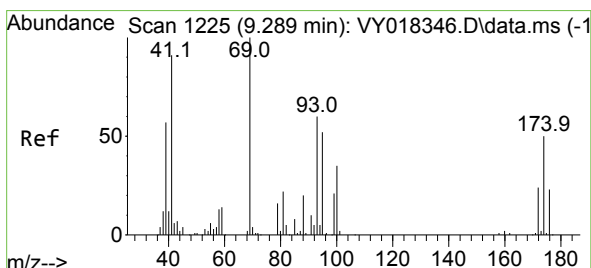
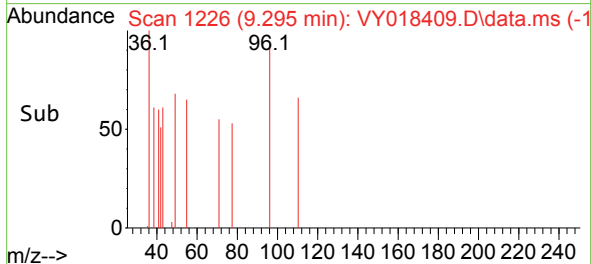
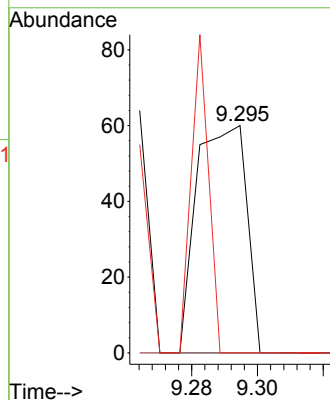
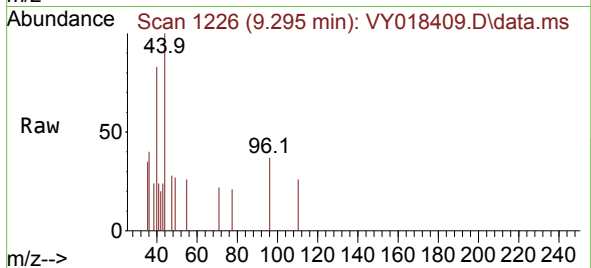
Tgt Ion: 41 Resp: 63

Ion Ratio Lower Upper

41 100

69 0.0 84.1 126.1#

39 49.2 43.6 65.4



#49

1,4-Dioxane

Concen: 53.140 ug/l

RT: 9.289 min Scan# 1225

Delta R.T. -0.000 min

Lab File: VY018409.D

Acq: 30 May 2024 13:05

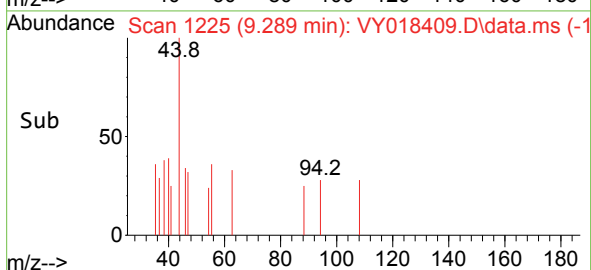
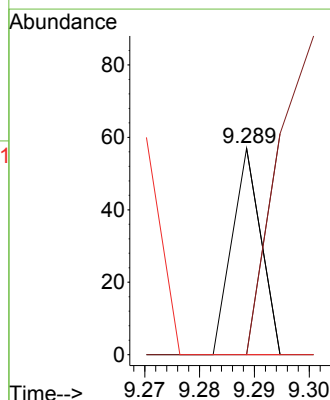
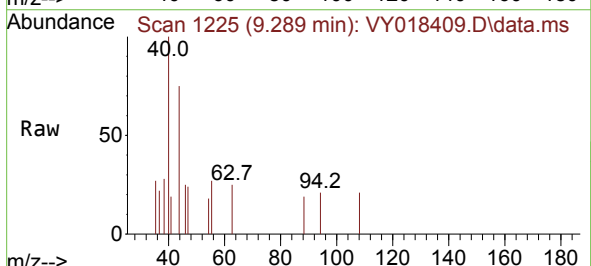
Tgt Ion: 88 Resp: 21

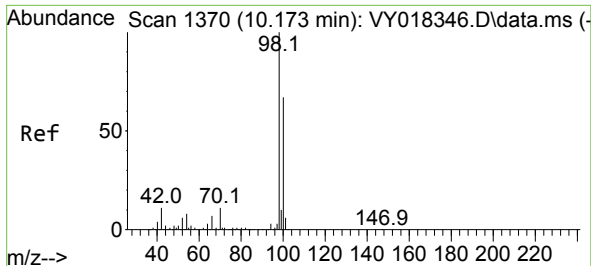
Ion Ratio Lower Upper

88 100

43 0.0 0.0 0.0

58 195.2 49.3 73.9#

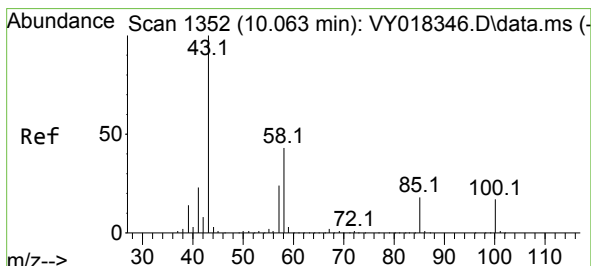
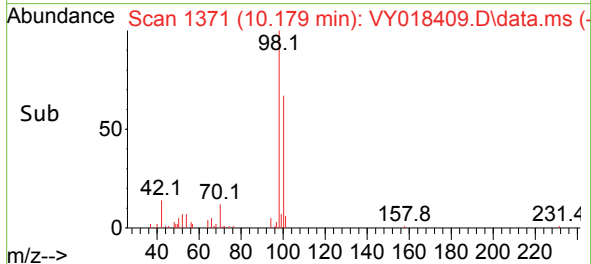
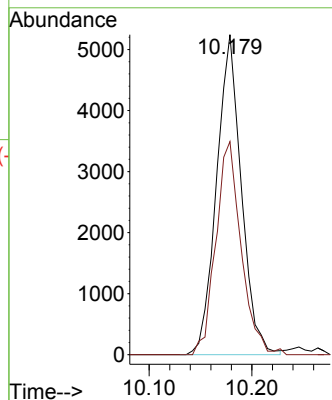
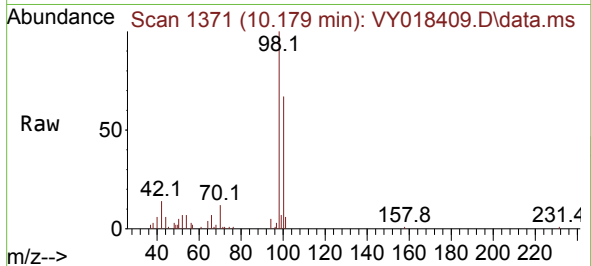




#50
Toluene-d8
Concen: 43.128 ug/l
RT: 10.179 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY018409.D
Acq: 30 May 2024 13:05

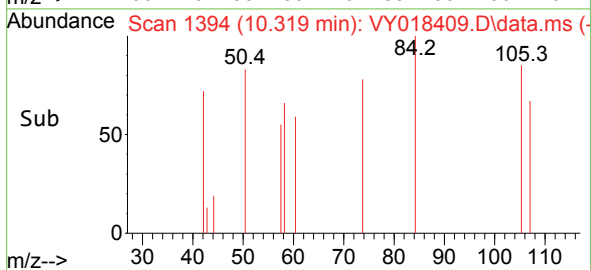
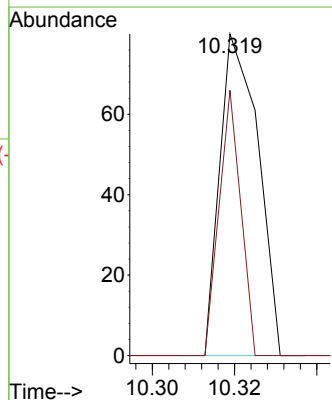
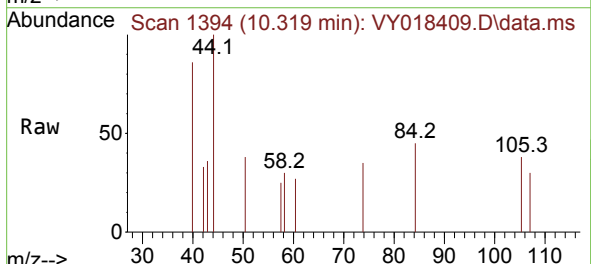
Instrument :
MSVOA_Y
ClientSampleId :

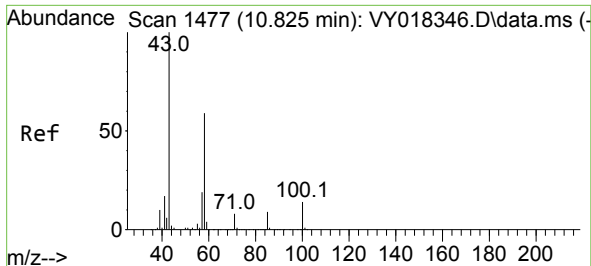
Tgt Ion: 98 Resp: 8778
Ion Ratio Lower Upper
98 100
100 68.1 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 1.458 ug/l
RT: 10.319 min Scan# 1394
Delta R.T. 0.256 min
Lab File: VY018409.D
Acq: 30 May 2024 13:05

Tgt Ion: 43 Resp: 52
Ion Ratio Lower Upper
43 100
58 46.2 35.7 53.5

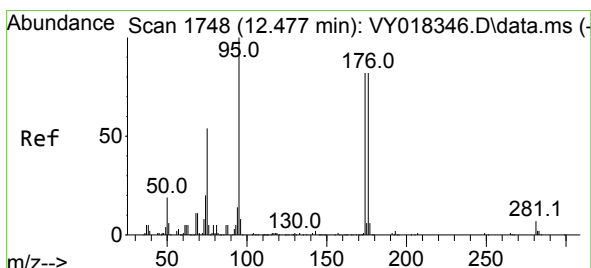
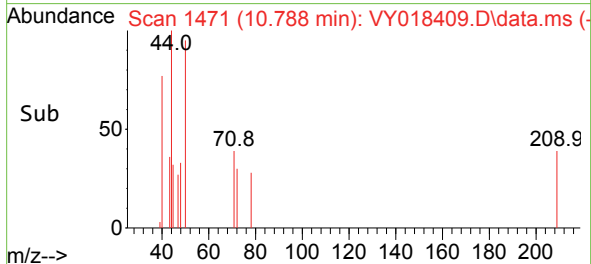
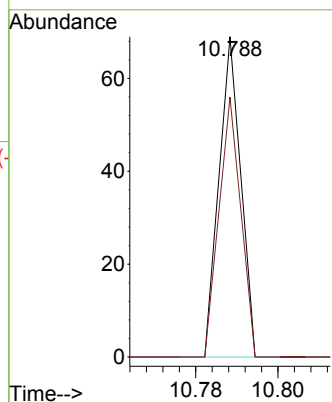
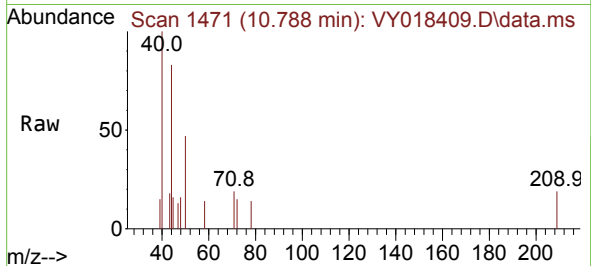




#59
2-Hexanone
Concen: 1.019 ug/l
RT: 10.788 min Scan# 1471
Delta R.T. -0.037 min
Lab File: VY018409.D
Acq: 30 May 2024 13:05

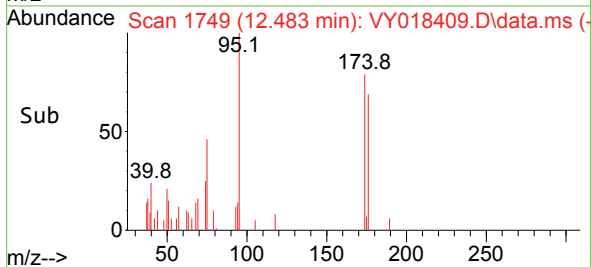
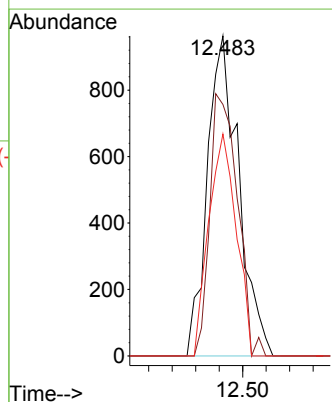
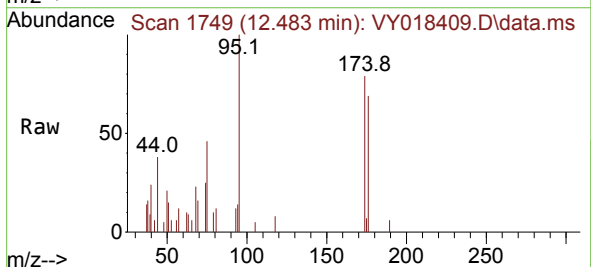
Instrument :
MSVOA_Y
ClientSampleId :

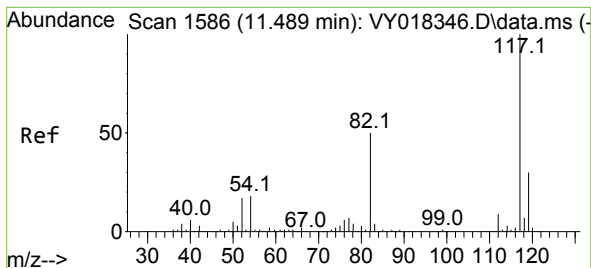
Tgt Ion: 43 Resp: 25
Ion Ratio Lower Upper
43 100
58 80.0 31.4 94.0



#62
4-Bromofluorobenzene
Concen: 28.256 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.006 min
Lab File: VY018409.D
Acq: 30 May 2024 13:05

Tgt Ion: 95 Resp: 1777
Ion Ratio Lower Upper
95 100
174 72.7 0.0 175.6
176 61.2 0.0 171.4

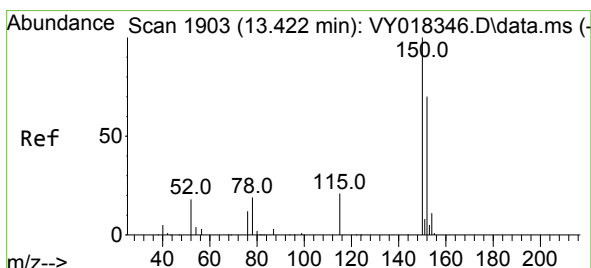
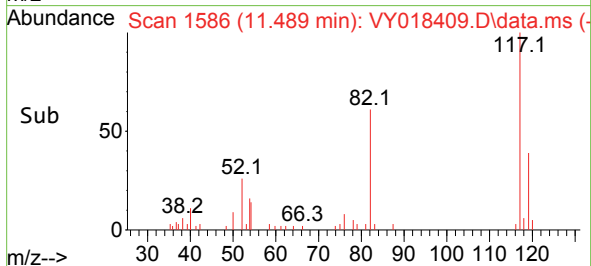
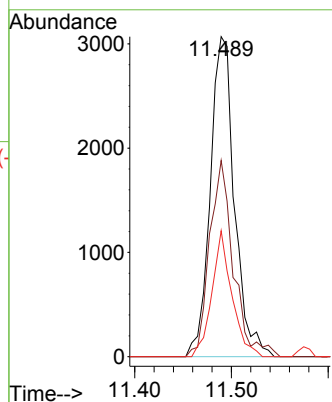
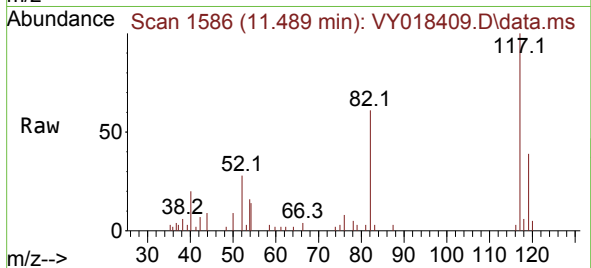




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY018409.D
Acq: 30 May 2024 13:05

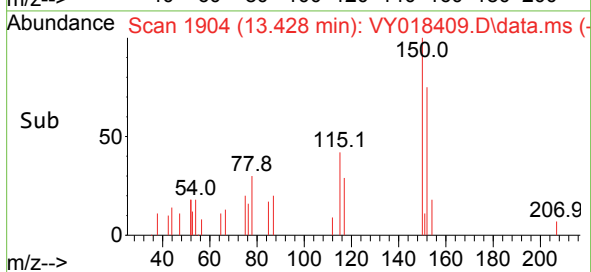
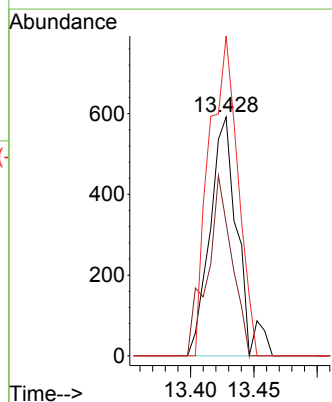
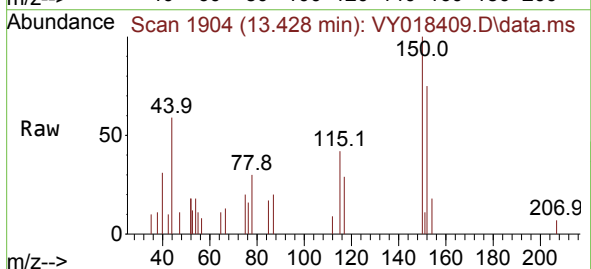
Instrument :
MSVOA_Y
ClientSampleId :

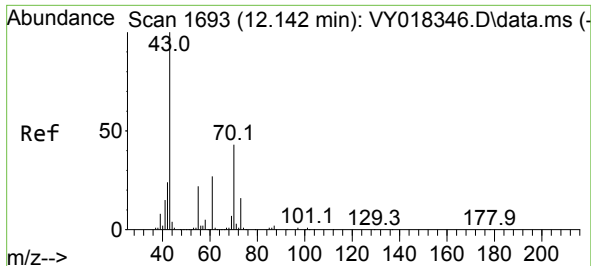
Tgt Ion:117 Resp: 5335
Ion Ratio Lower Upper
117 100
82 61.3 42.4 63.6
119 39.4 25.9 38.9#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.428 min Scan# 1904
Delta R.T. 0.006 min
Lab File: VY018409.D
Acq: 30 May 2024 13:05

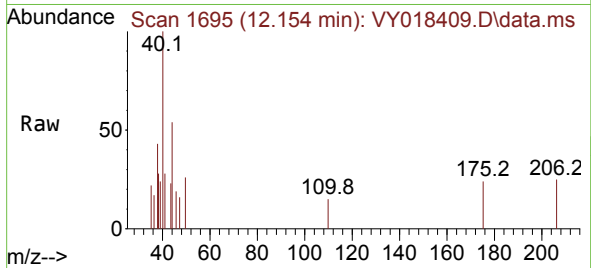
Tgt Ion:152 Resp: 895
Ion Ratio Lower Upper
152 100
115 67.3 28.2 84.7
150 139.3 0.0 345.6



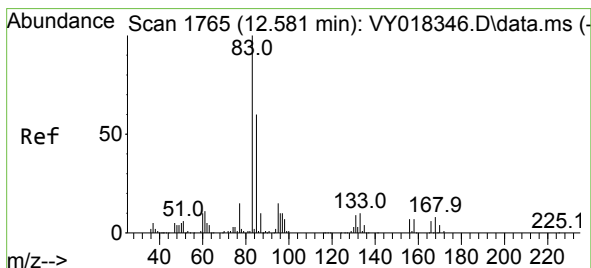
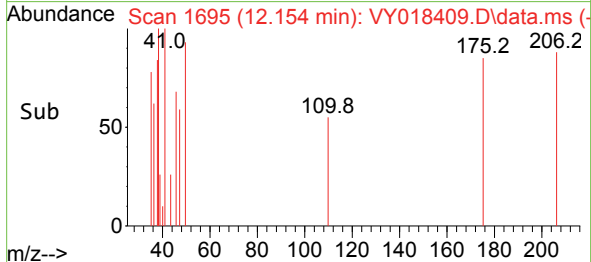
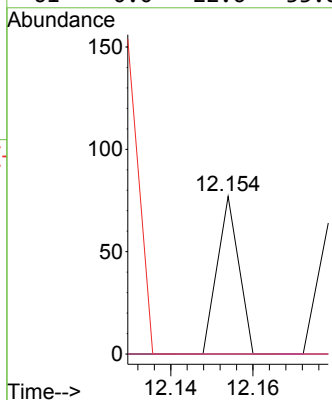


#74
N-amy1 acetate
Concen: 1.706 ug/l
RT: 12.154 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY018409.D
Acq: 30 May 2024 13:05

Instrument :
MSVOA_Y
ClientSampleId :

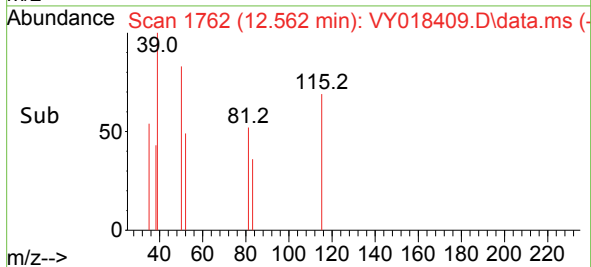
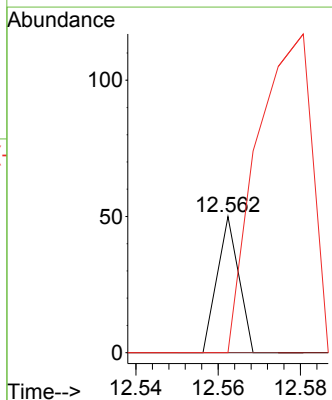
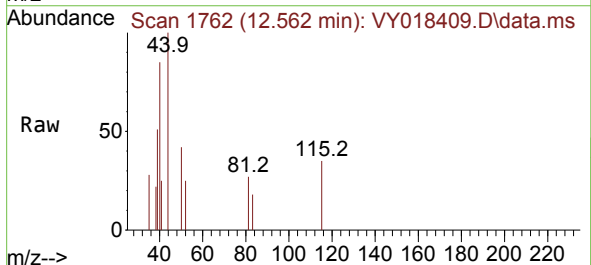


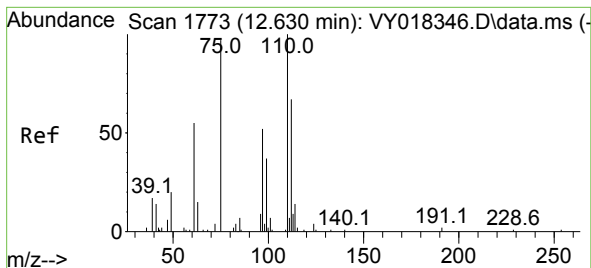
Tgt Ion: 43	Resp: 28
Ion Ratio	Lower Upper
43 100	
70 0.0	41.4 62.2#
55 0.0	23.3 34.9#
61 0.0	22.6 33.8#



#75
1,1,2,2-Tetrachloroethane
Concen: 1.502 ug/l
RT: 12.562 min Scan# 1762
Delta R.T. -0.018 min
Lab File: VY018409.D
Acq: 30 May 2024 13:05

Tgt Ion: 83	Resp: 18
Ion Ratio	Lower Upper
83 100	
131 0.0	5.0 14.9#
85 600.0	32.0 96.0#





#76

1,2,3-Trichloropropane

Concen: 4.973 ug/l

RT: 12.623 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY018409.D

Acq: 30 May 2024 13:05

Instrument :

MSVOA_Y

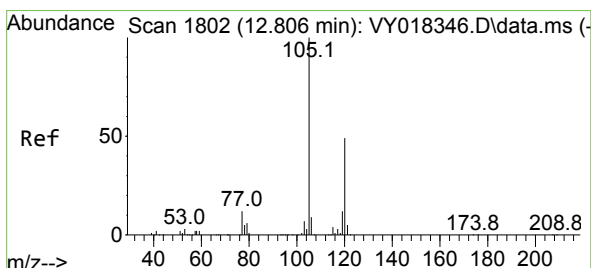
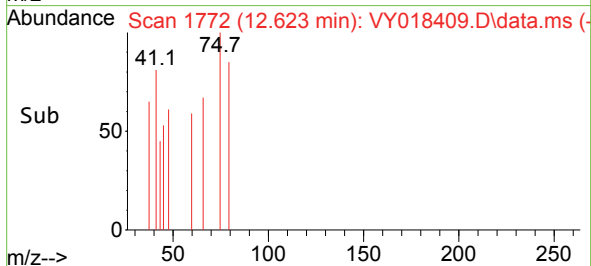
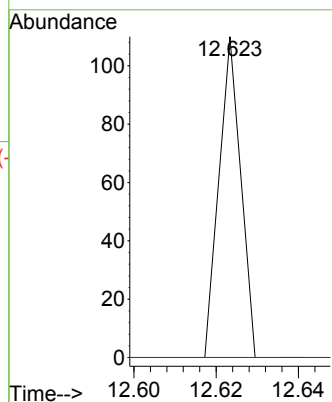
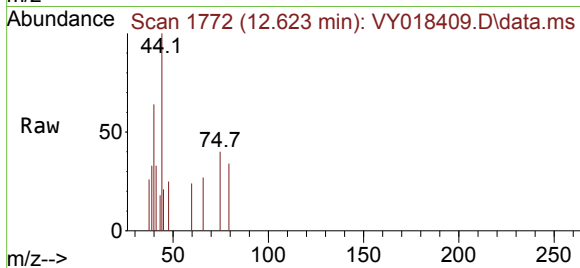
ClientSampleId :

Tgt Ion: 75 Resp: 40

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0



#80

1,3,5-Trimethylbenzene

Concen: 1.936 ug/l

RT: 12.812 min Scan# 1803

Delta R.T. 0.006 min

Lab File: VY018409.D

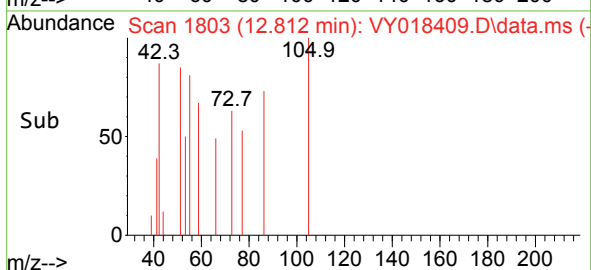
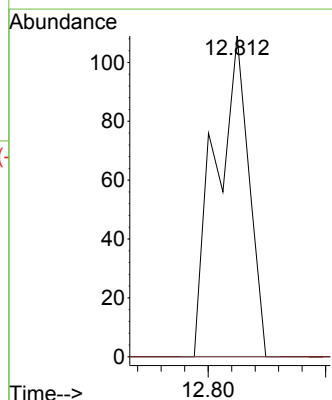
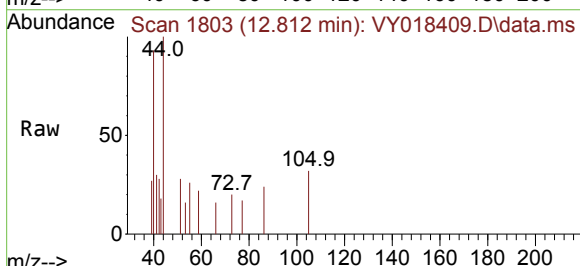
Acq: 30 May 2024 13:05

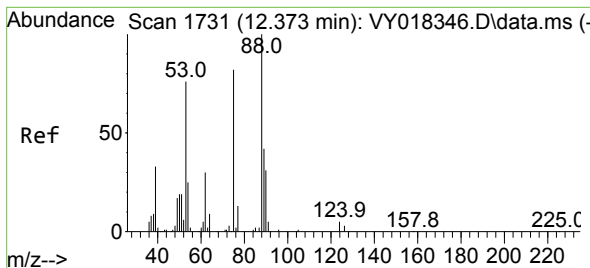
Tgt Ion:105 Resp: 107

Ion Ratio Lower Upper

105 100

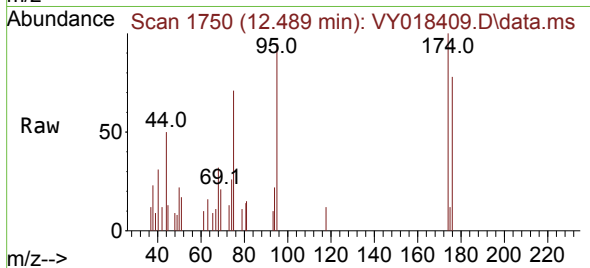
120 0.0 25.1 75.2#



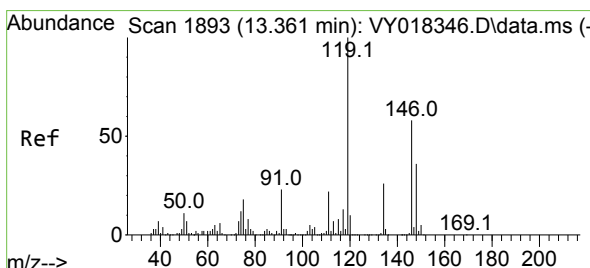
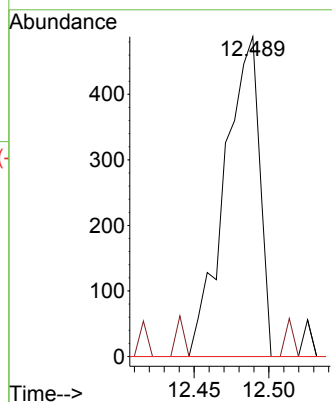
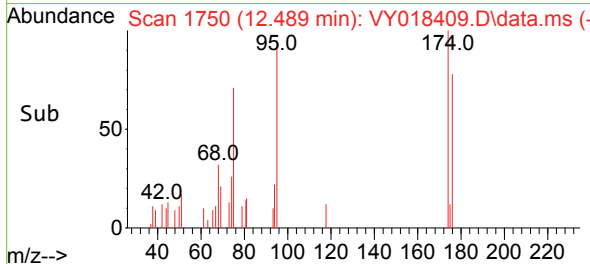


#81
trans-1,4-Dichloro-2-butene
Concen: 201.809 ug/l
RT: 12.489 min Scan# 1750
Delta R.T. 0.116 min
Lab File: VY018409.D
Acq: 30 May 2024 13:05

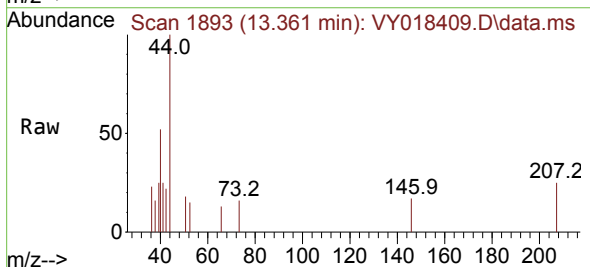
Instrument :
MSVOA_Y
ClientSampleId :



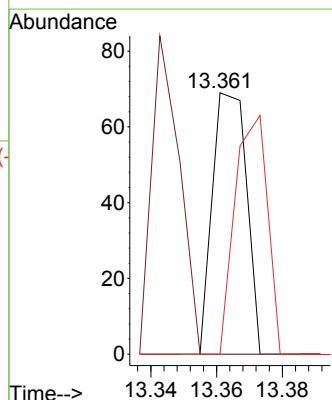
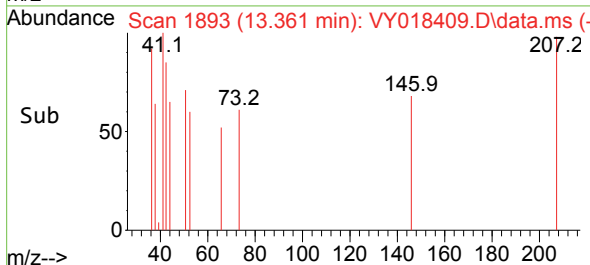
Tgt Ion: 75 Resp: 789
Ion Ratio Lower Upper
75 100
53 0.0 66.8 100.2#
89 0.0 35.8 53.6#

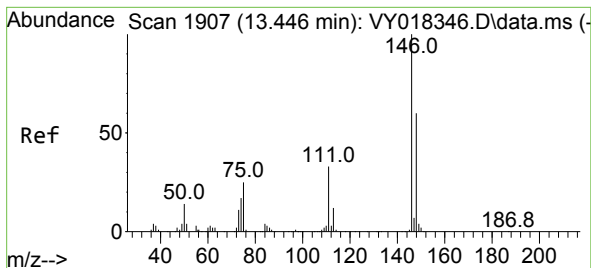


#87
1,3-Dichlorobenzene
Concen: 1.648 ug/l
RT: 13.361 min Scan# 1893
Delta R.T. -0.000 min
Lab File: VY018409.D
Acq: 30 May 2024 13:05



Tgt Ion: 146 Resp: 50
Ion Ratio Lower Upper
146 100
111 0.0 19.0 57.0#
148 86.0 31.7 95.1





#88

1,4-Dichlorobenzene

Concen: 1.656 ug/l

RT: 13.361 min Scan# 11

Delta R.T. -0.085 min

Lab File: VY018409.D

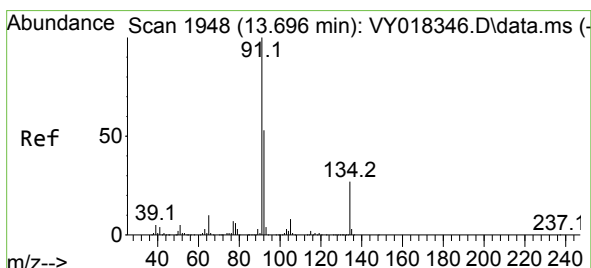
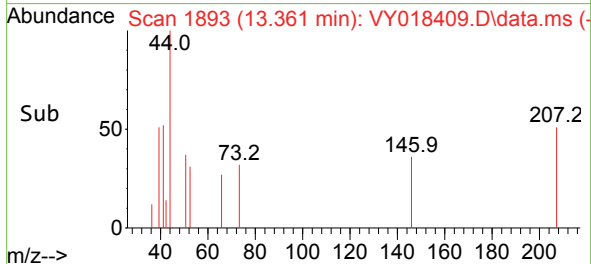
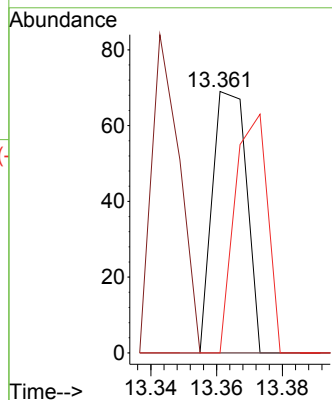
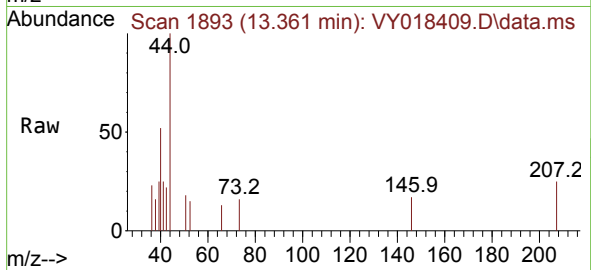
Acq: 30 May 2024 13:05

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion:146 Resp: 50
Ion Ratio Lower Upper
146 100
111 0.0 18.4 55.4#
148 86.0 32.4 97.2



#89

n-Butylbenzene

Concen: 1.188 ug/l

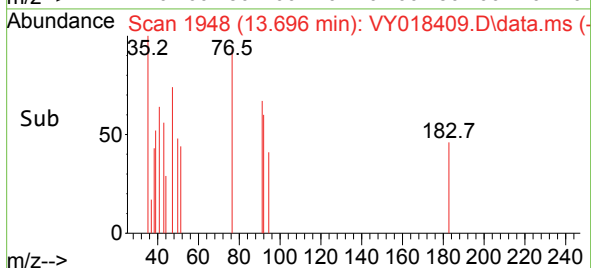
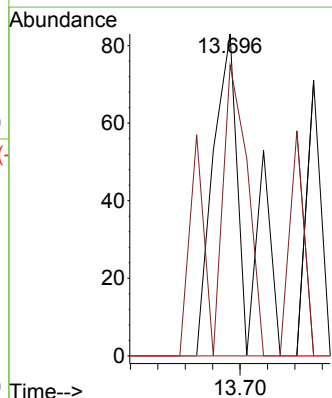
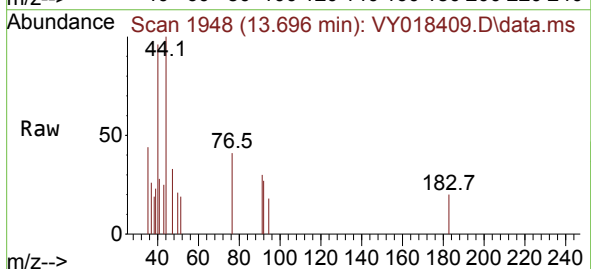
RT: 13.696 min Scan# 1948

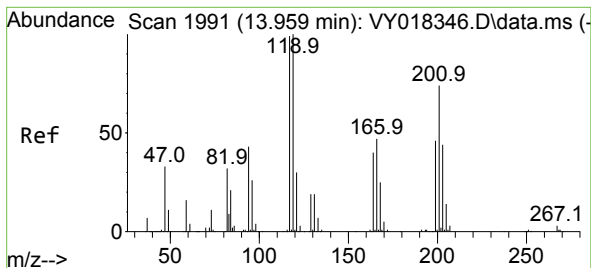
Delta R.T. -0.000 min

Lab File: VY018409.D

Acq: 30 May 2024 13:05

Tgt Ion: 91 Resp: 69
Ion Ratio Lower Upper
91 100
92 97.1 26.6 79.7#
134 0.0 12.9 38.7#





#90

Hexachloroethane

Concen: 1.840 ug/l

RT: 13.989 min Scan# 1991

Delta R.T. 0.030 min

Lab File: VY018409.D

Acq: 30 May 2024 13:05

Instrument :

MSVOA_Y

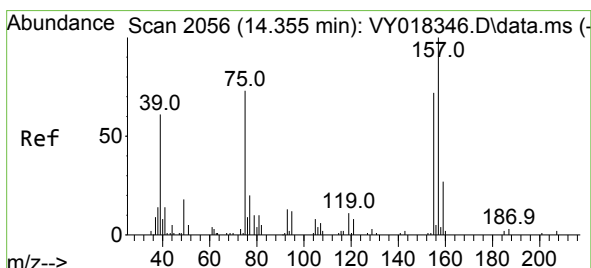
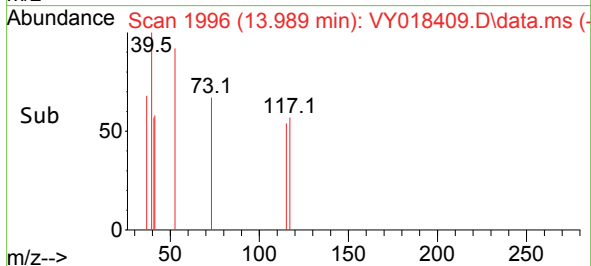
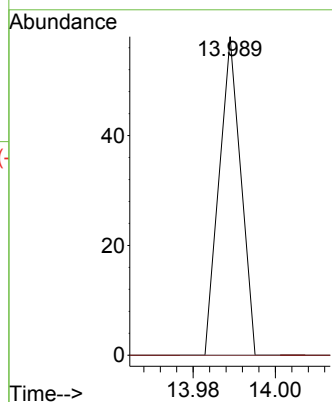
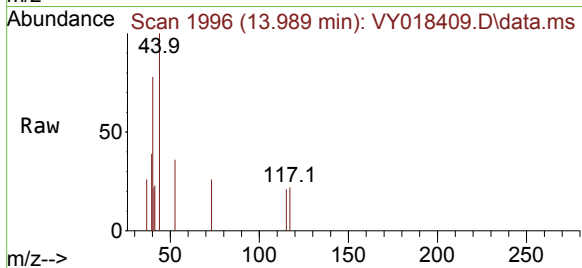
ClientSampleId :

Tgt Ion:117 Resp: 21

Ion Ratio Lower Upper

117 100

201 0.0 37.4 112.2#



#92

1,2-Dibromo-3-Chloropropane

Concen: 14.598 ug/l

RT: 14.446 min Scan# 2071

Delta R.T. 0.091 min

Lab File: VY018409.D

Acq: 30 May 2024 13:05

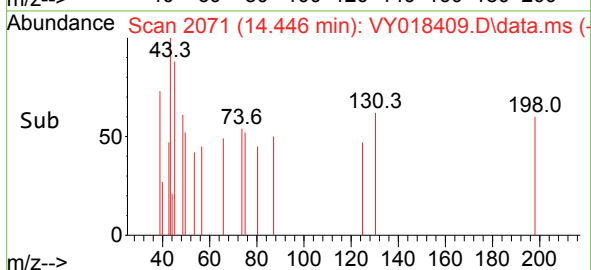
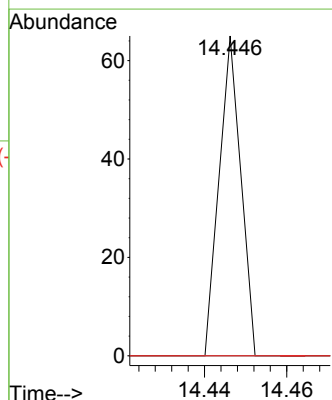
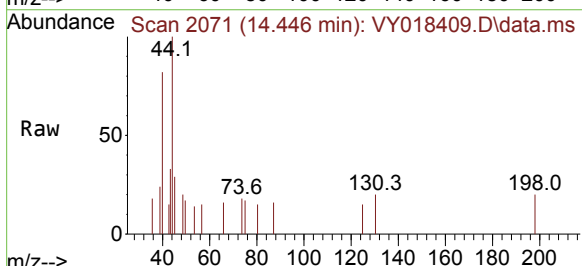
Tgt Ion: 75 Resp: 24

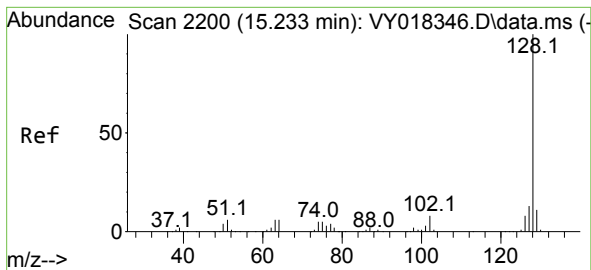
Ion Ratio Lower Upper

75 100

155 0.0 48.6 145.8#

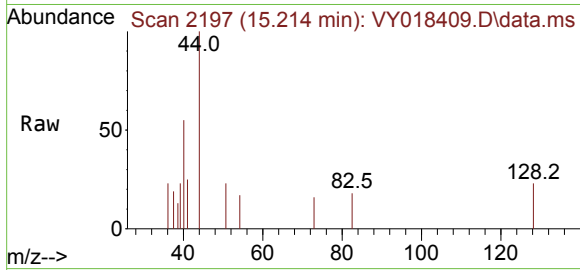
157 0.0 62.7 188.2#





#95
Naphthalene
Concen: 2.238 ug/l
RT: 15.214 min Scan# 21
Delta R.T. -0.018 min
Lab File: VY018409.D
Acq: 30 May 2024 13:05

Instrument :
MSVOA_Y
ClientSampleId :



Tgt Ion:128 Resp: 66
Ion Ratio Lower Upper
128 100
127 36.4 10.6 16.0#
129 40.9 8.6 13.0#

