

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051724\
 Data File : VY018306.D
 Acq On : 17 May 2024 14:22
 Operator : SY/MD
 Sample : P2513-13
 Misc : 5.09g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-17

Quant Time: May 18 00:49:46 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y050724S.M
 Quant Title : SW846 8260
 QLast Update : Wed May 08 01:40:14 2024
 Response via : Initial Calibration

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

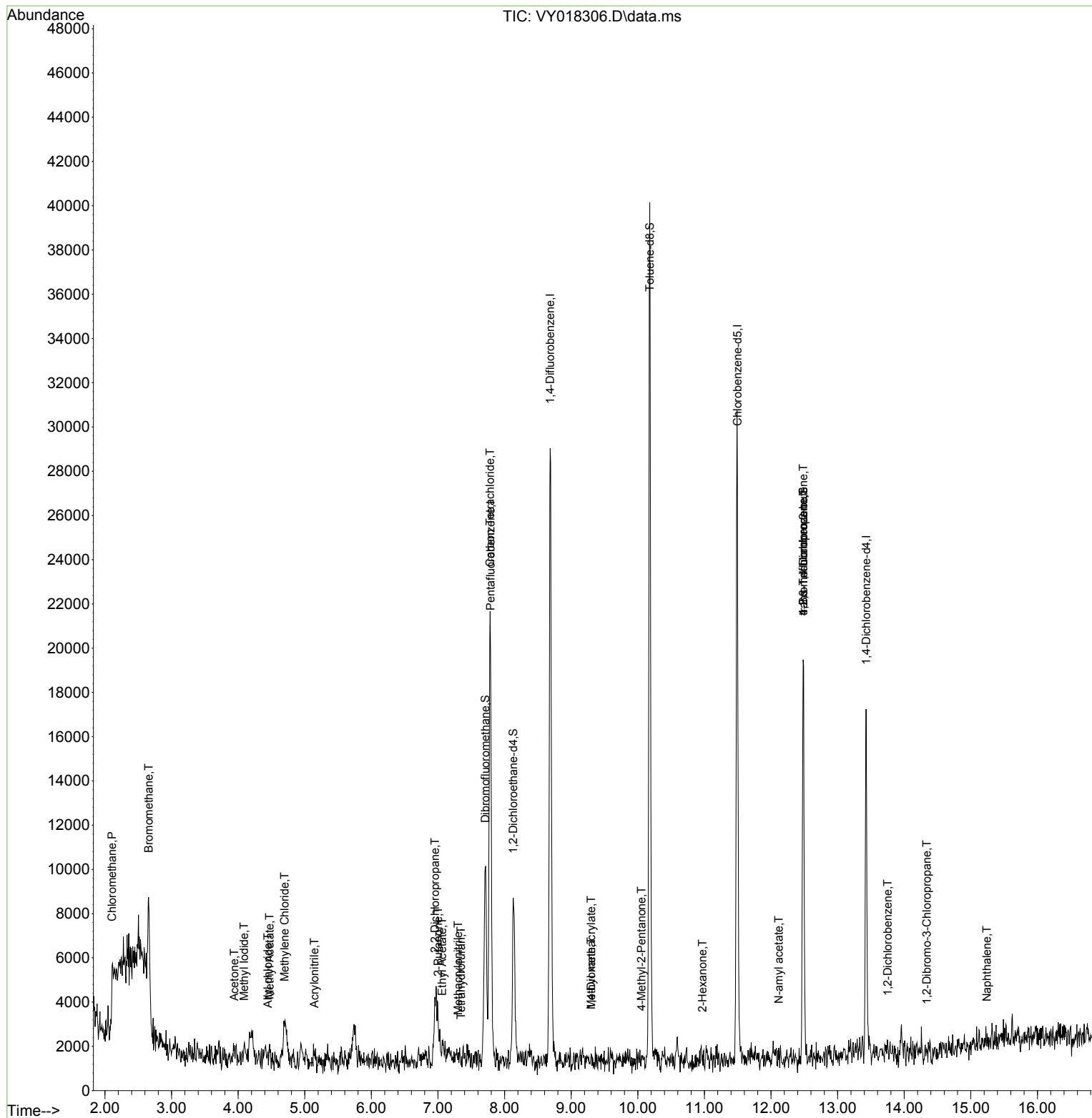
Internal Standards						
1) Pentafluorobenzene	7.789	168	15826	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	25683	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.495	117	17047	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	3877	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.130	65	5112	43.907	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	87.820%
35) Dibromofluoromethane	7.709	113	6836	50.646	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	101.300%
50) Toluene-d8	10.178	98	26350	49.540	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	99.080%
62) 4-Bromofluorobenzene	12.483	95	4870	28.352	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	56.700%
Target Compounds						Qvalue
3) Chloromethane	2.107	50	771	4.589	ug/l	92
5) Bromomethane	2.655	94	1492	10.549	ug/l	94
10) Methyl Iodide	4.088	142	1063	5.988	ug/l #	63
11) Tert butyl alcohol	4.941	59	89	Below Cal	#	1
13) Acrolein	3.704	56	38	Below Cal	#	60
14) Allyl chloride	4.448	41	210	1.079	ug/l #	36
15) Acrylonitrile	5.143	53	93	3.079	ug/l #	65
16) Acetone	3.942	43	740	31.850	ug/l	99
18) Methyl Acetate	4.472	43	109	1.647	ug/l #	46
20) Methylene Chloride	4.698	84	798	4.859	ug/l #	85
25) 2-Butanone	7.002	43	119	3.204	ug/l #	41
26) 2,2-Dichloropropane	6.953	77	328	1.425	ug/l #	51
29) Tetrahydrofuran	7.343	42	58	2.366	ug/l #	49
31) Cyclohexane	7.776	56	388	Below Cal	#	66
37) Ethyl Acetate	7.063	43	116	1.424	ug/l #	85
38) Carbon Tetrachloride	7.782	117	1693	8.007	ug/l #	13
41) Methacrylonitrile	7.301	41	147	3.126	ug/l #	41
48) Methyl methacrylate	9.300	41	90	1.176	ug/l #	43
49) 1,4-Dioxane	9.300	88	25	24.076	ug/l #	20
51) 4-Methyl-2-Pentanone	10.056	43	177	2.110	ug/l #	31
59) 2-Hexanone	10.971	43	86	1.466	ug/l	88
74) N-amyl acetate	12.117	43	65	1.077	ug/l #	1
76) 1,2,3-Trichloropropane	12.483	75	2979	95.995	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.483	75	2979	184.950	ug/l #	18
91) 1,2-Dichlorobenzene	13.751	146	154	1.389	ug/l #	49
92) 1,2-Dibromo-3-Chloropr...	14.336	75	83	13.146	ug/l #	1
95) Naphthalene	15.238	128	121	1.060	ug/l #	43

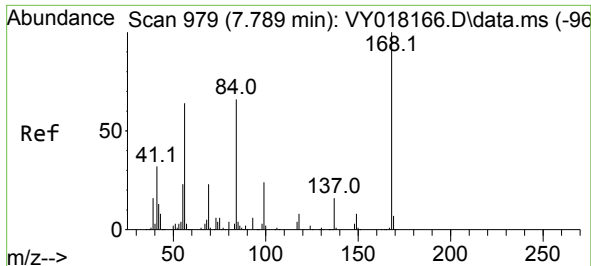
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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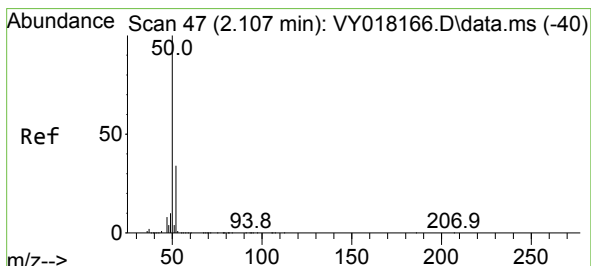
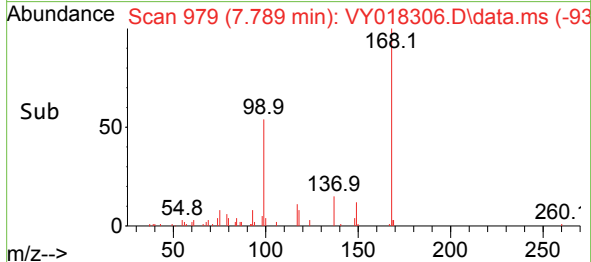
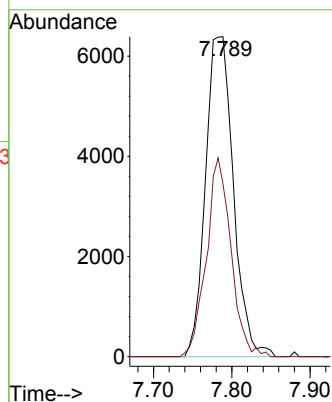
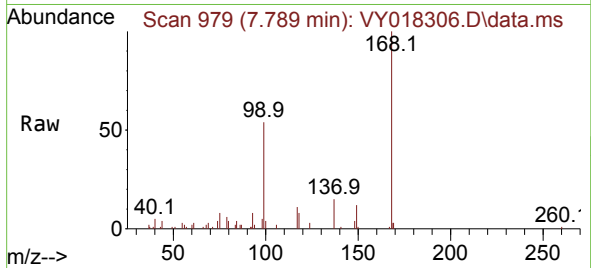




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY018306.D
Acq: 17 May 2024 14:22

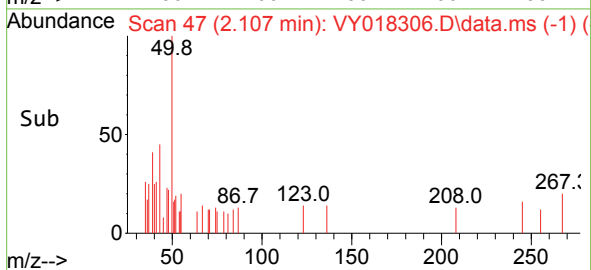
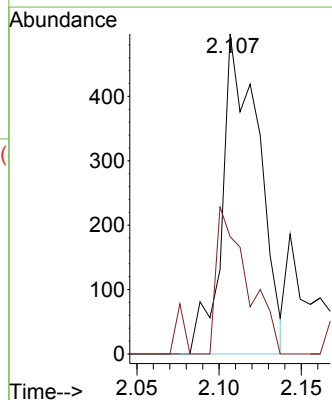
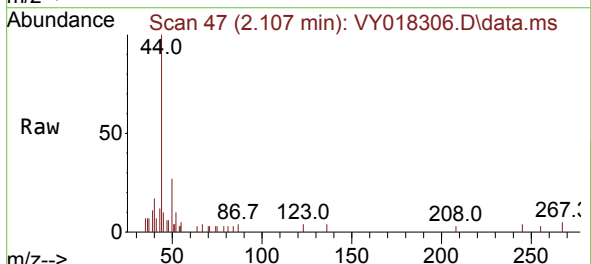
Instrument :
MSVOA_Y
ClientSampleId :
TP-17

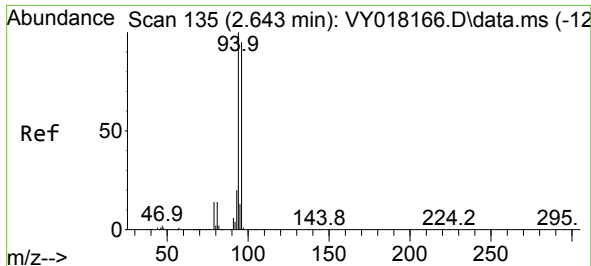
Tgt Ion:168 Resp: 15826
Ion Ratio Lower Upper
168 100
99 54.1 39.1 58.7



#3
Chloromethane
Concen: 4.589 ug/l
RT: 2.107 min Scan# 47
Delta R.T. -0.000 min
Lab File: VY018306.D
Acq: 17 May 2024 14:22

Tgt Ion: 50 Resp: 771
Ion Ratio Lower Upper
50 100
52 36.6 25.6 38.4

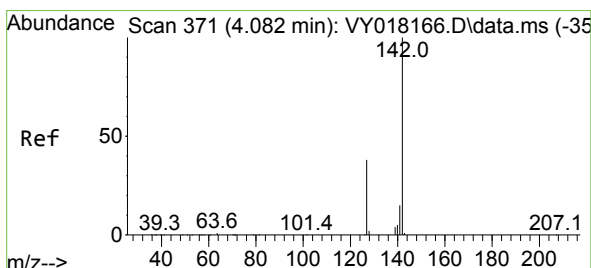
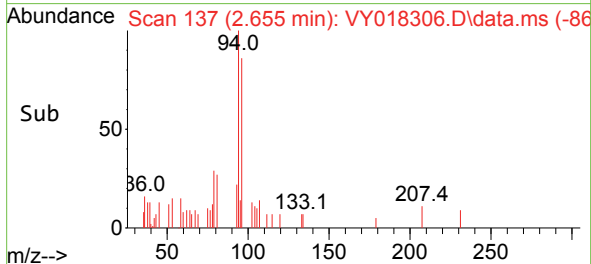
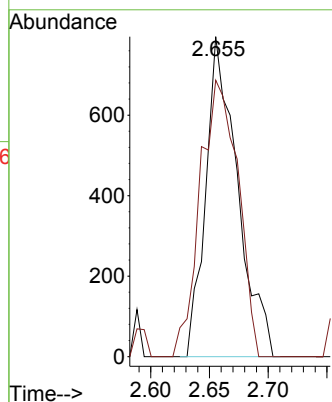
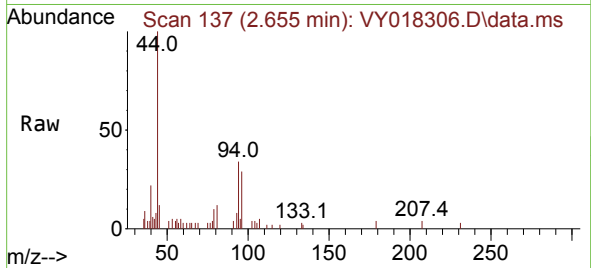




#5
Bromomethane
Concen: 10.549 ug/l
RT: 2.655 min Scan# 11
Delta R.T. 0.012 min
Lab File: VY018306.D
Acq: 17 May 2024 14:22

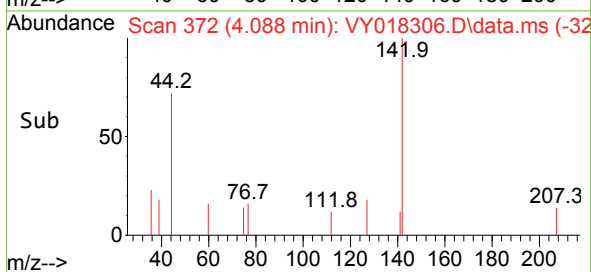
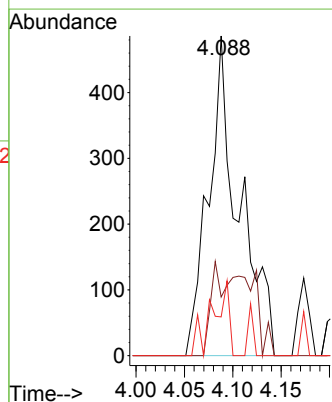
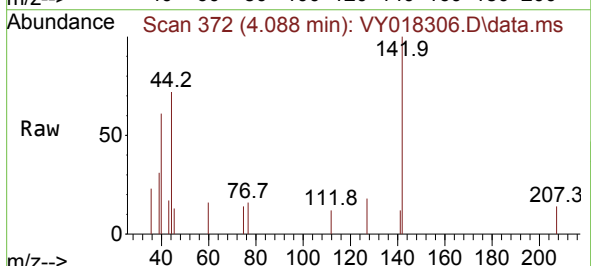
Instrument :
MSVOA_Y
ClientSampleId :
TP-17

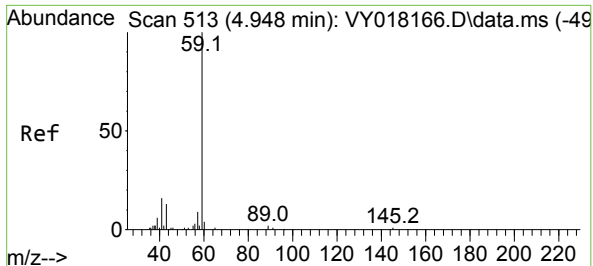
Tgt Ion: 94 Resp: 1492
Ion Ratio Lower Upper
94 100
96 86.4 74.1 111.1



#10
Methyl Iodide
Concen: 5.988 ug/l
RT: 4.088 min Scan# 372
Delta R.T. 0.006 min
Lab File: VY018306.D
Acq: 17 May 2024 14:22

Tgt Ion: 142 Resp: 1063
Ion Ratio Lower Upper
142 100
127 10.3 32.8 49.2#
141 13.1 11.4 17.2





#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.941 min Scan# 51

Delta R.T. -0.007 min

Lab File: VY018306.D

Acq: 17 May 2024 14:22

Instrument :

MSVOA_Y

ClientSampleId :

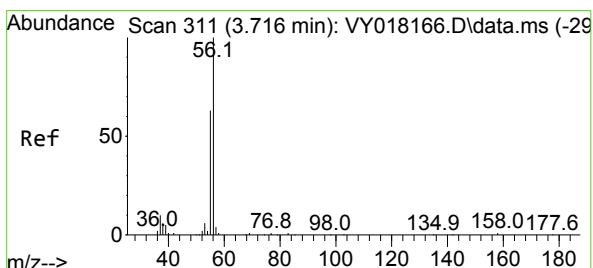
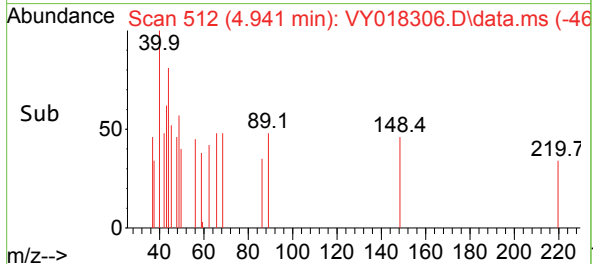
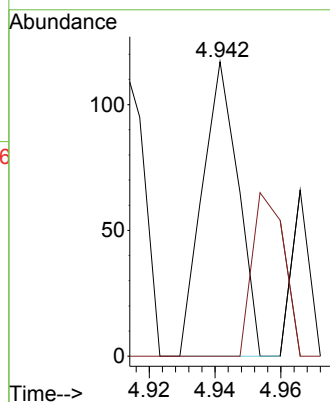
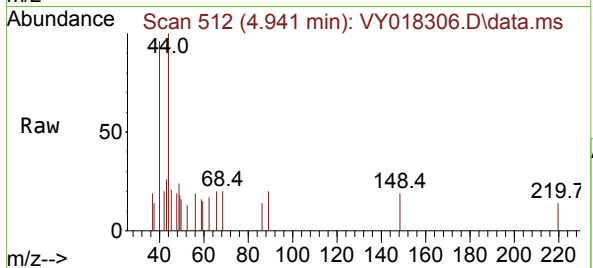
TP-17

Tgt Ion: 59 Resp: 89

Ion Ratio Lower Upper

59 100

57 49.4 3.0 4.6#



#13

Acrolein

Concen: Below Cal

RT: 3.704 min Scan# 309

Delta R.T. -0.012 min

Lab File: VY018306.D

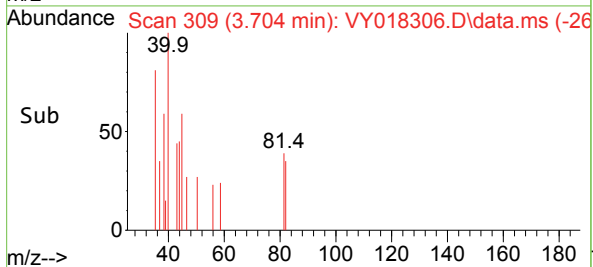
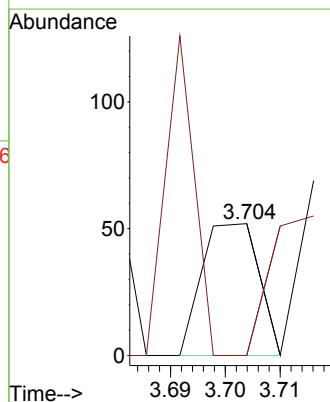
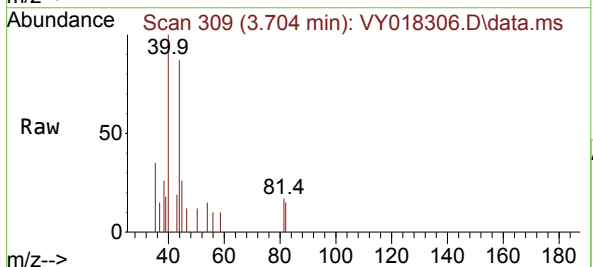
Acq: 17 May 2024 14:22

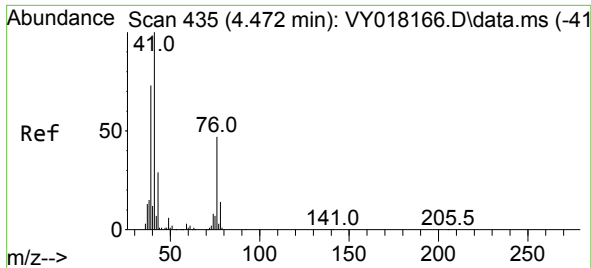
Tgt Ion: 56 Resp: 38

Ion Ratio Lower Upper

56 100

55 102.6 55.7 83.5#

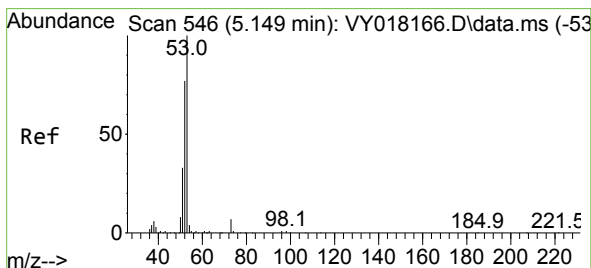
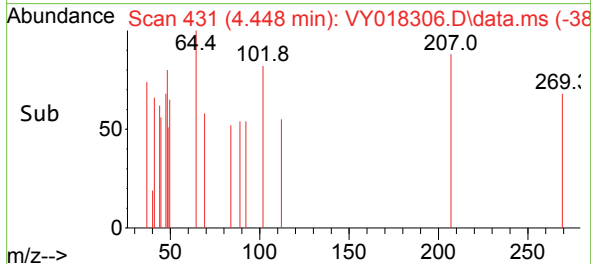
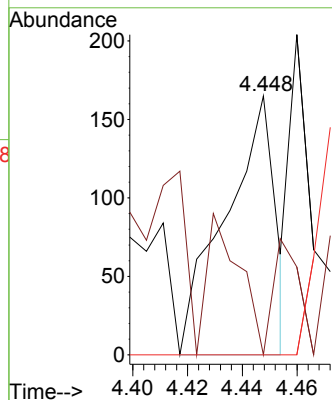
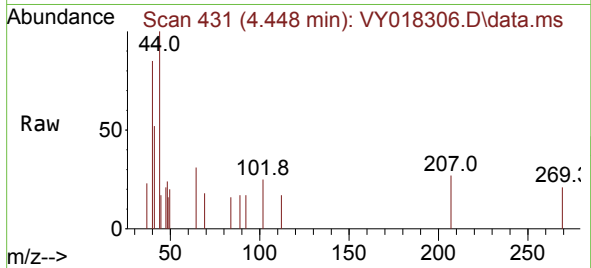




#14
 Allyl chloride
 Concen: 1.079 ug/l
 RT: 4.448 min Scan# 41
 Delta R.T. -0.025 min
 Lab File: VY018306.D
 Acq: 17 May 2024 14:22

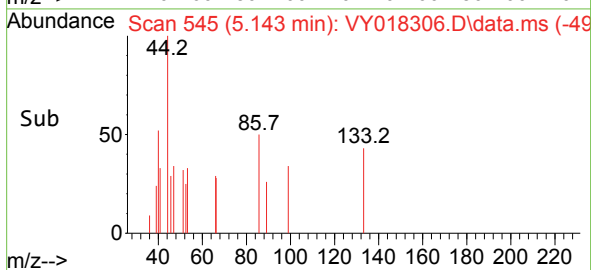
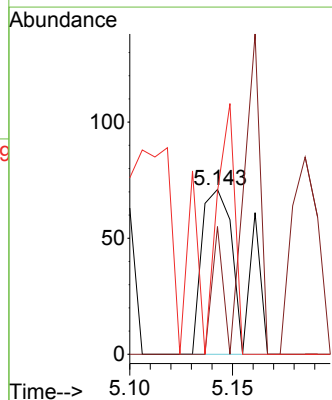
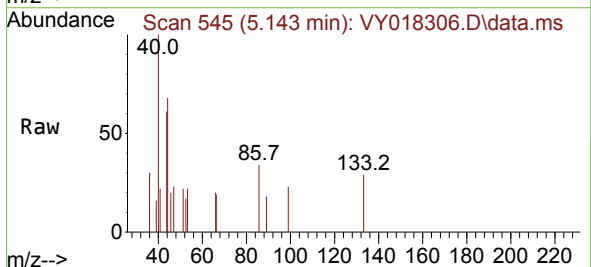
Instrument :
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 ClientSampleId :
 TP-17

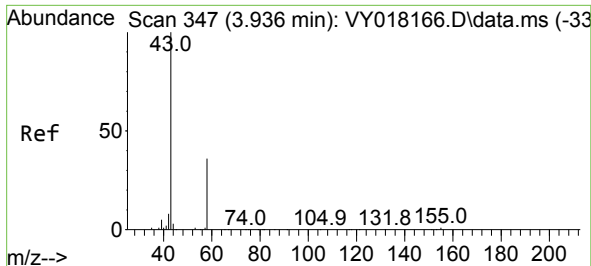
Tgt Ion: 41	Resp: 210
Ion Ratio	Lower Upper
41 100	
39 22.9	58.3 87.5#
76 0.0	39.0 58.6#



#15
 Acrylonitrile
 Concen: 3.079 ug/l
 RT: 5.143 min Scan# 545
 Delta R.T. -0.006 min
 Lab File: VY018306.D
 Acq: 17 May 2024 14:22

Tgt Ion: 53	Resp:	93	
Ion	Ratio	Lower	Upper
53	100		
52	102.2	64.7	97.1#
51	69.9	28.4	42.6#

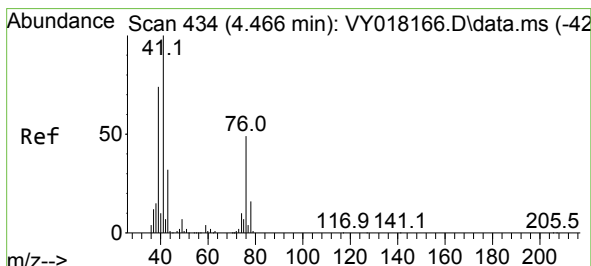
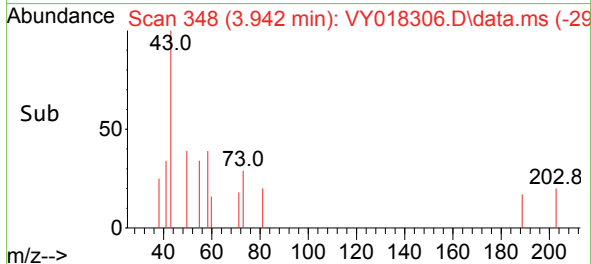
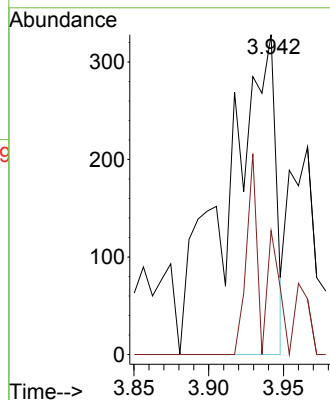
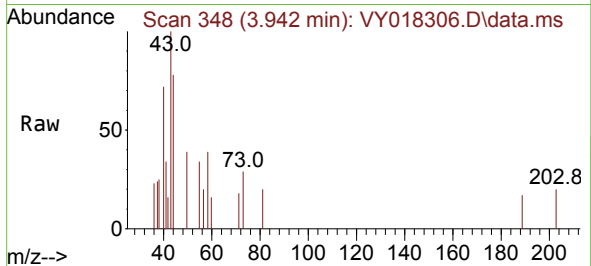




#16
Acetone
Concen: 31.850 ug/l
RT: 3.942 min Scan# 347
Delta R.T. 0.006 min
Lab File: VY018306.D
Acq: 17 May 2024 14:22

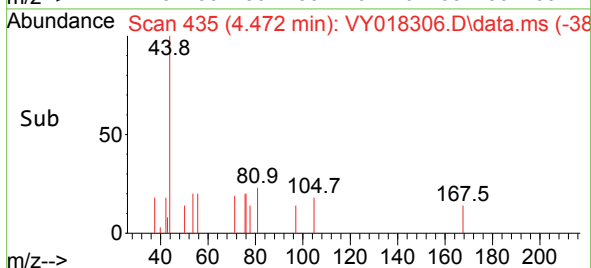
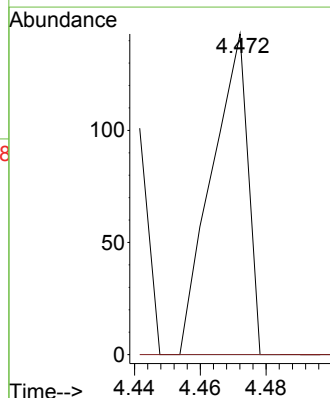
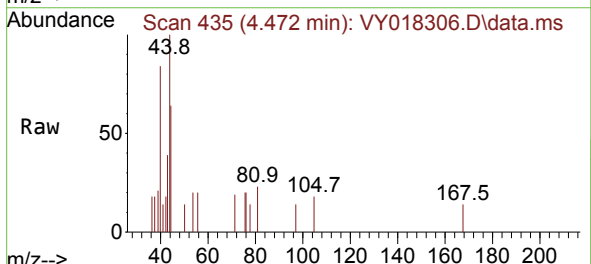
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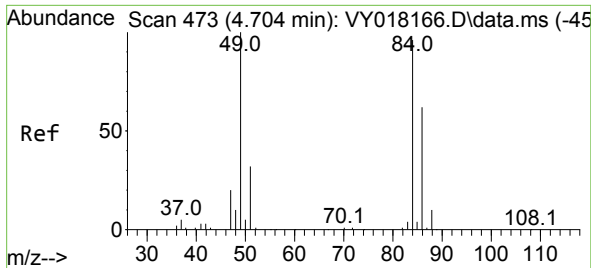
Tgt Ion: 43 Resp: 740
Ion Ratio Lower Upper
43 100
58 38.7 31.7 47.5



#18
Methyl Acetate
Concen: 1.647 ug/l
RT: 4.472 min Scan# 435
Delta R.T. 0.006 min
Lab File: VY018306.D
Acq: 17 May 2024 14:22

Tgt Ion: 43 Resp: 109
Ion Ratio Lower Upper
43 100
74 0.0 23.3 34.9#

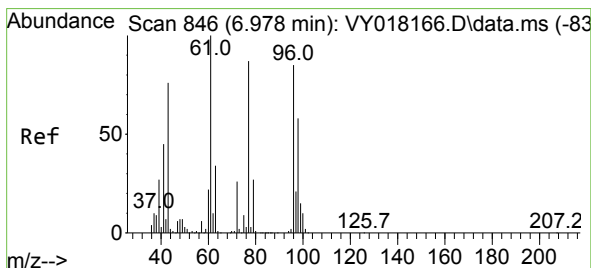
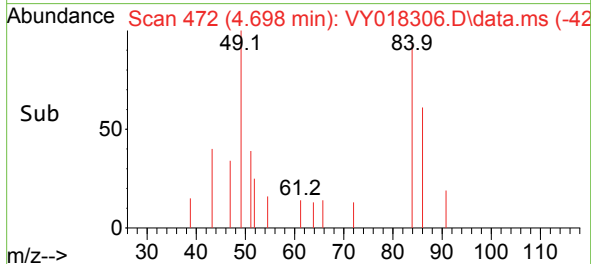
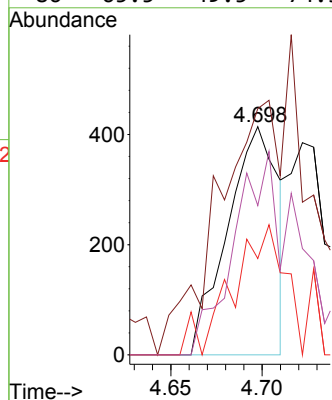
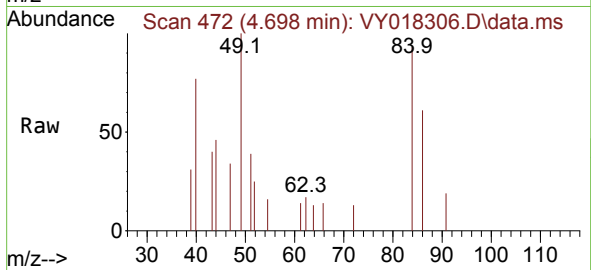




#20
Methylene Chloride
Concen: 4.859 ug/l
RT: 4.698 min Scan# 41
Delta R.T. -0.006 min
Lab File: VY018306.D
Acq: 17 May 2024 14:22

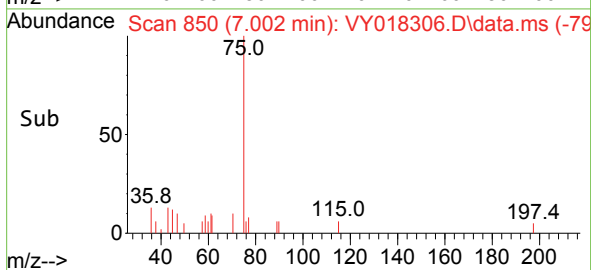
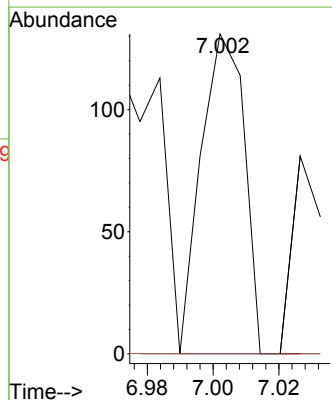
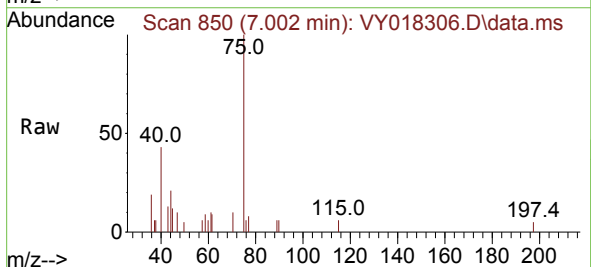
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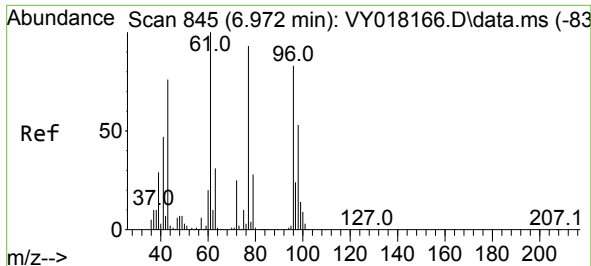
Tgt Ion:	84	Resp:	798
Ion	Ratio	Lower	Upper
84	100		
49	84.5	84.4	126.6
51	42.3	26.0	39.0#
86	65.5	49.5	74.3



#25
2-Butanone
Concen: 3.204 ug/l
RT: 7.002 min Scan# 850
Delta R.T. 0.024 min
Lab File: VY018306.D
Acq: 17 May 2024 14:22

Tgt Ion:	43	Resp:	119
Ion	Ratio	Lower	Upper
43	100		
72	0.0	27.3	40.9#





#26

2,2-Dichloropropane

Concen: 1.425 ug/l

RT: 6.953 min Scan# 84

Delta R.T. -0.019 min

Lab File: VY018306.D

Acq: 17 May 2024 14:22

Instrument :

MSVOA_Y

ClientSampleId :

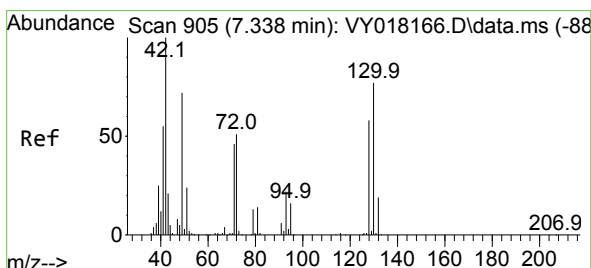
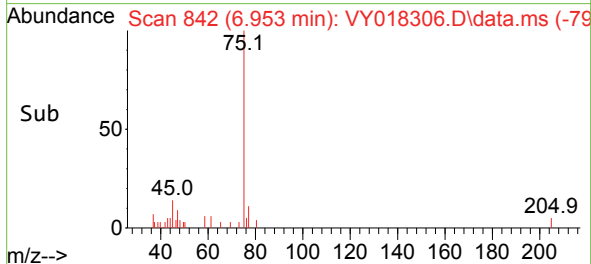
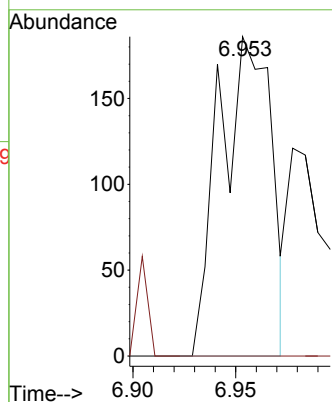
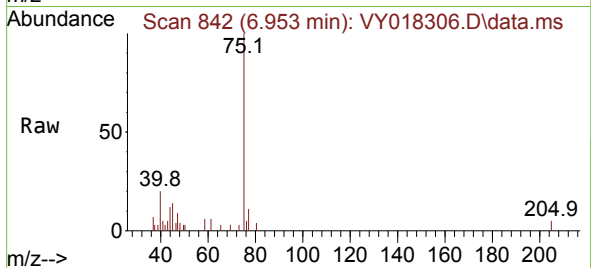
TP-17

Tgt Ion: 77 Resp: 328

Ion Ratio Lower Upper

77 100

97 0.0 12.0 36.1#



#29

Tetrahydrofuran

Concen: 2.366 ug/l

RT: 7.343 min Scan# 906

Delta R.T. 0.006 min

Lab File: VY018306.D

Acq: 17 May 2024 14:22

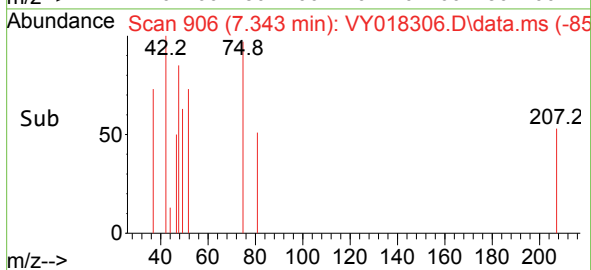
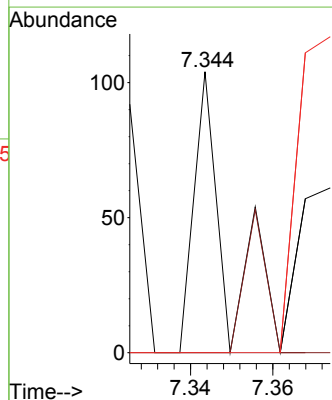
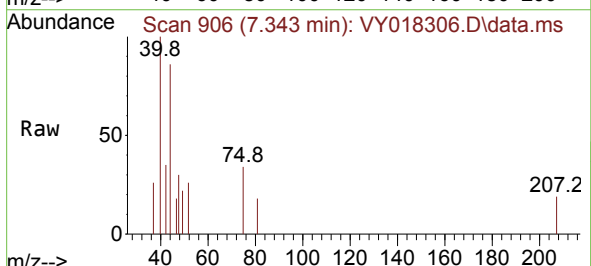
Tgt Ion: 42 Resp: 58

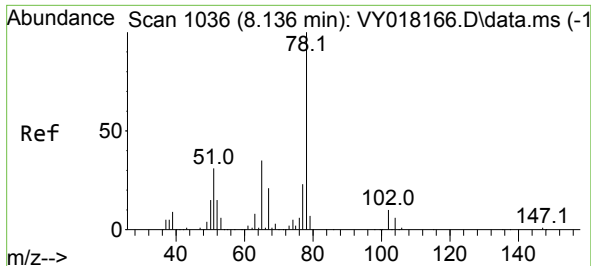
Ion Ratio Lower Upper

42 100

72 32.8 43.0 64.4#

71 0.0 40.8 61.2#





#33

1,2-Dichloroethane-d4

Concen: 43.907 ug/l

RT: 8.130 min Scan# 1036

Delta R.T. -0.006 min

Lab File: VY018306.D

Acq: 17 May 2024 14:22

Instrument :

MSVOA_Y

ClientSampleId :

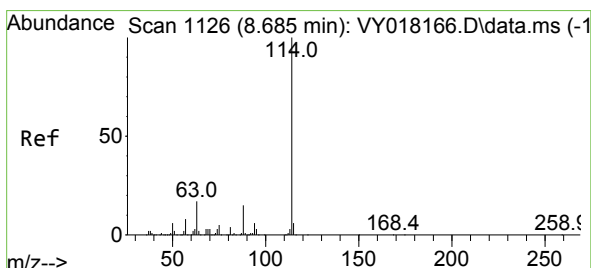
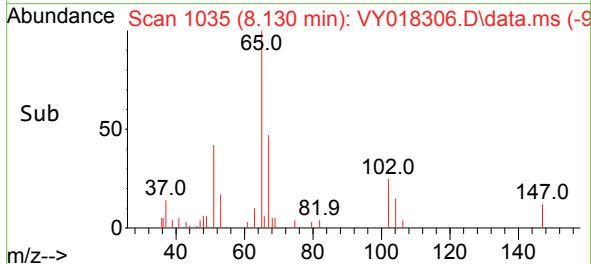
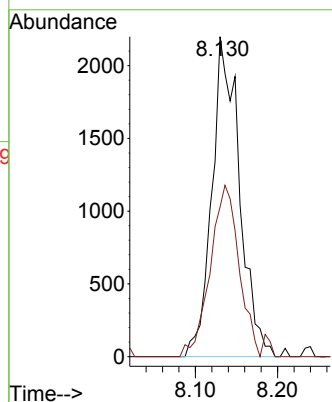
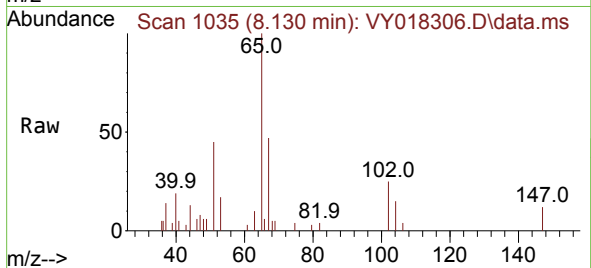
TP-17

Tgt Ion: 65 Resp: 5112

Ion Ratio Lower Upper

65 100

67 55.9 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: VY018306.D

Acq: 17 May 2024 14:22

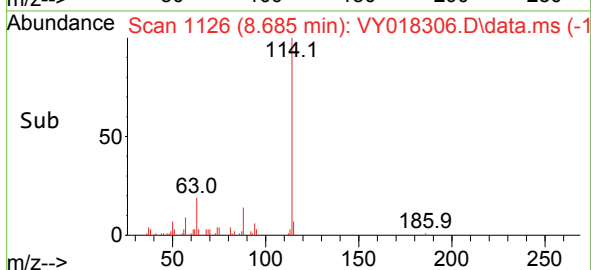
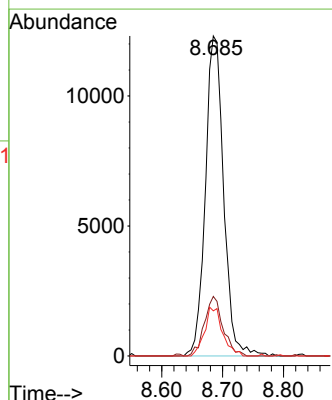
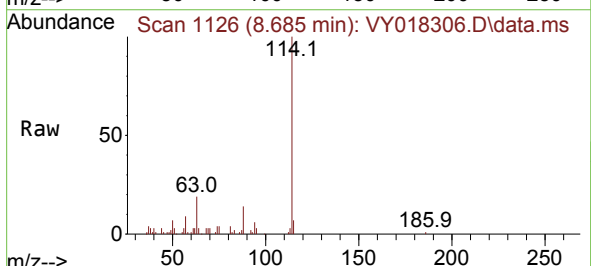
Tgt Ion: 114 Resp: 25683

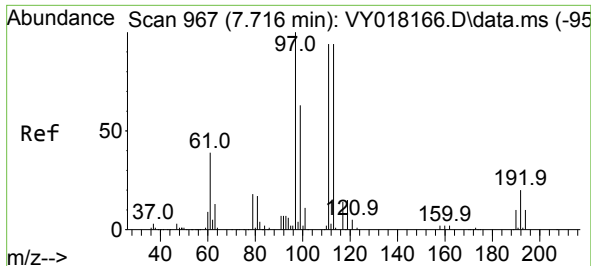
Ion Ratio Lower Upper

114 100

63 18.6 0.0 35.0

88 14.1 0.0 27.2

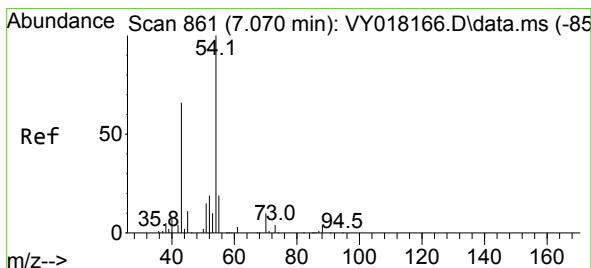
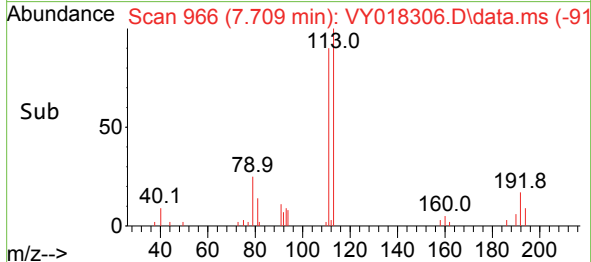
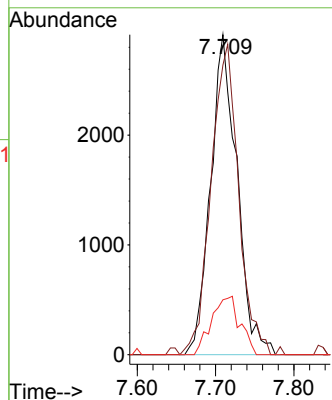
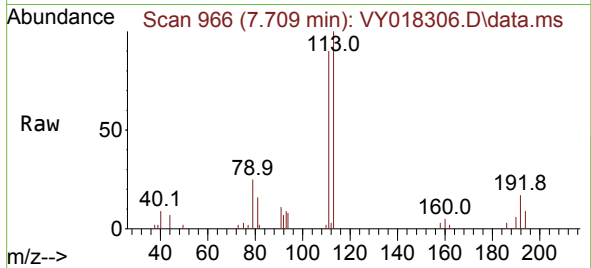




#35
Dibromofluoromethane
Concen: 50.646 ug/l
RT: 7.709 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY018306.D
Acq: 17 May 2024 14:22

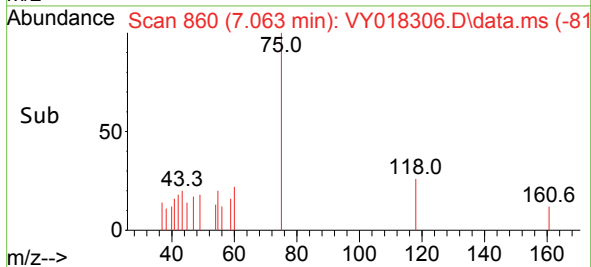
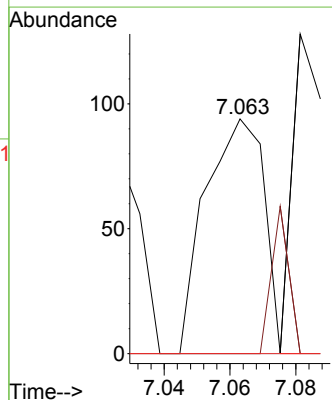
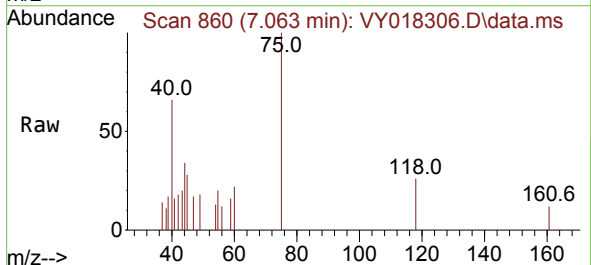
Instrument :
MSVOA_Y
ClientSampleId :
TP-17

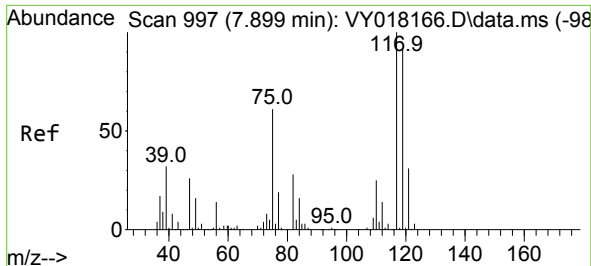
Tgt Ion:113 Resp: 6836
Ion Ratio Lower Upper
113 100
111 101.2 82.2 123.4
192 19.6 15.9 23.9



#37
Ethyl Acetate
Concen: 1.424 ug/l
RT: 7.063 min Scan# 860
Delta R.T. -0.006 min
Lab File: VY018306.D
Acq: 17 May 2024 14:22

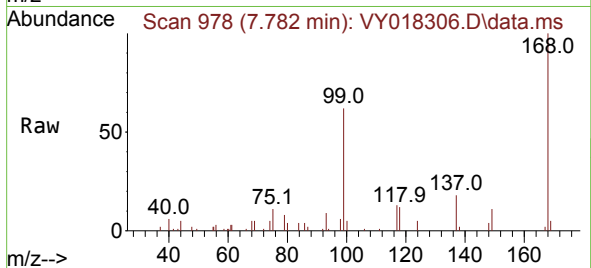
Tgt Ion: 43 Resp: 116
Ion Ratio Lower Upper
43 100
61 19.0 12.6 19.0#
70 0.0 7.8 11.8#



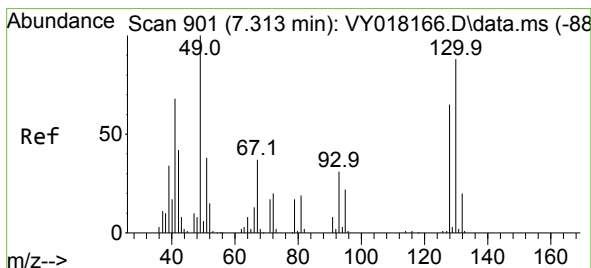
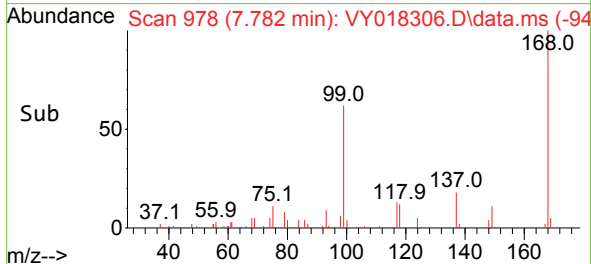
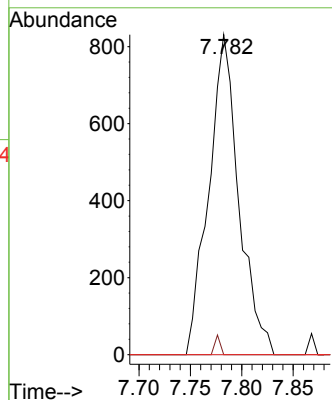


#38
Carbon Tetrachloride
Concen: 8.007 ug/l
RT: 7.782 min Scan# 91
Delta R.T. -0.116 min
Lab File: VY018306.D
Acq: 17 May 2024 14:22

Instrument :
MSVOA_Y
ClientSampleId :
TP-17

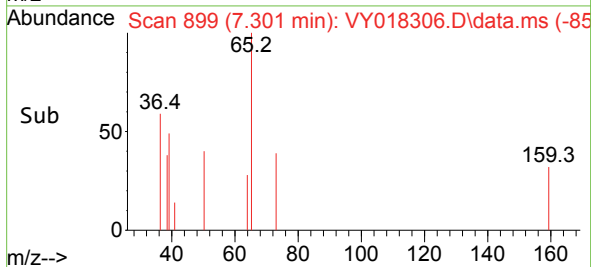
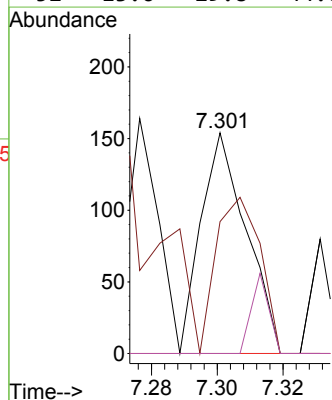
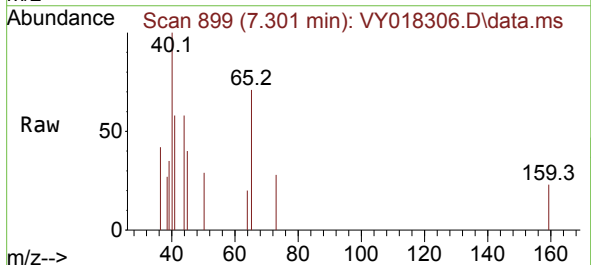


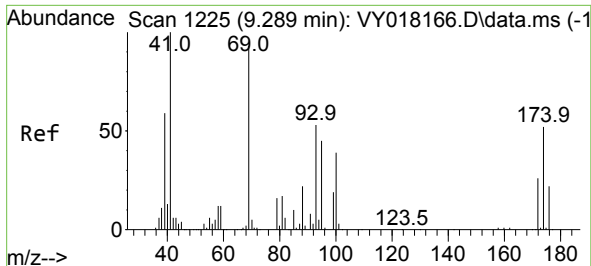
Tgt Ion:117 Resp: 1693
Ion Ratio Lower Upper
117 100
119 0.0 75.8 113.6#
121 0.0 24.0 36.0#



#41
Methacrylonitrile
Concen: 3.126 ug/l
RT: 7.301 min Scan# 899
Delta R.T. -0.013 min
Lab File: VY018306.D
Acq: 17 May 2024 14:22

Tgt Ion: 41 Resp: 147
Ion Ratio Lower Upper
41 100
39 69.4 48.0 72.0
67 0.0 75.1 112.7#
52 13.6 29.8 44.6#





#48

Methyl methacrylate

Concen: 1.176 ug/l

RT: 9.300 min Scan# 11

Delta R.T. 0.012 min

Lab File: VY018306.D

Acq: 17 May 2024 14:22

Instrument :

MSVOA_Y

ClientSampleId :

TP-17

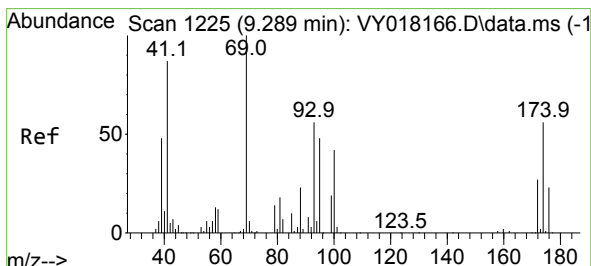
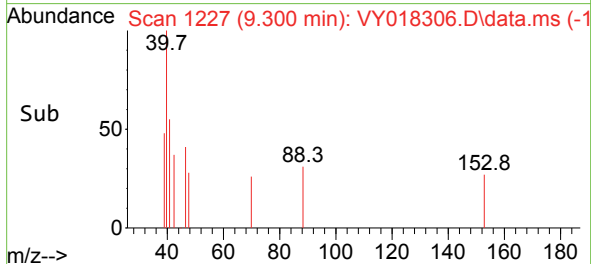
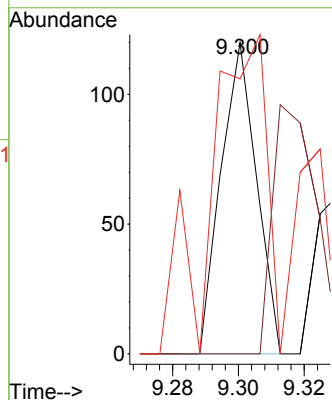
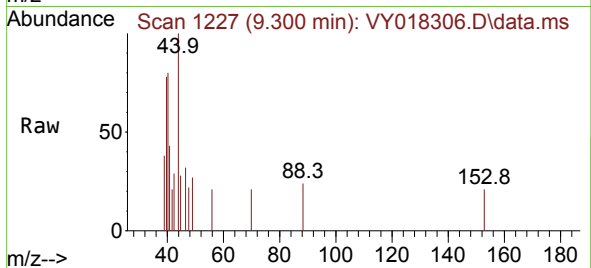
Tgt Ion: 41 Resp: 90

Ion Ratio Lower Upper

41 100

69 96.7 84.1 126.1

39 163.3 43.6 65.4#



#49

1,4-Dioxane

Concen: 24.076 ug/l

RT: 9.300 min Scan# 1227

Delta R.T. 0.012 min

Lab File: VY018306.D

Acq: 17 May 2024 14:22

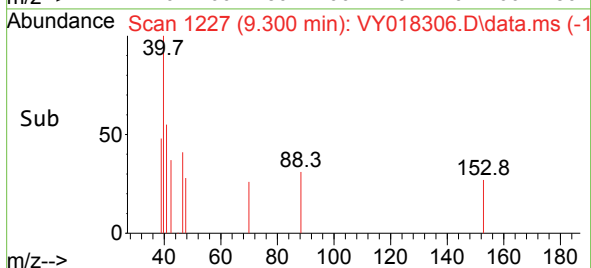
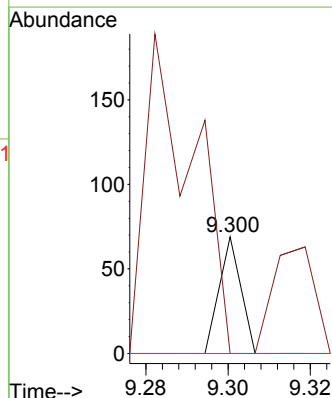
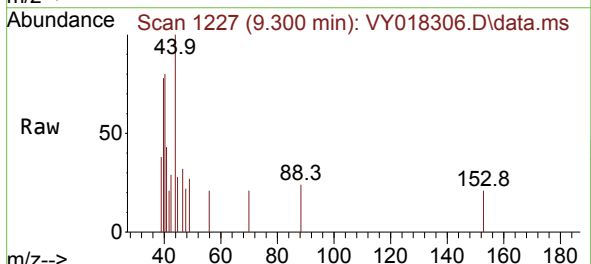
Tgt Ion: 88 Resp: 25

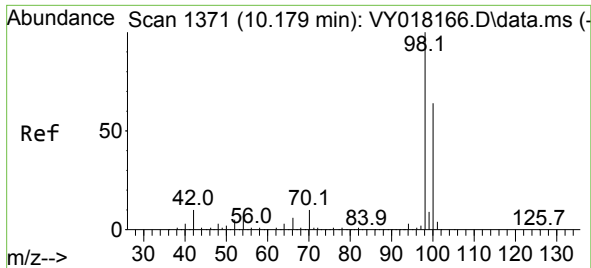
Ion Ratio Lower Upper

88 100

43 176.0 0.0 0.0#

58 0.0 49.3 73.9#

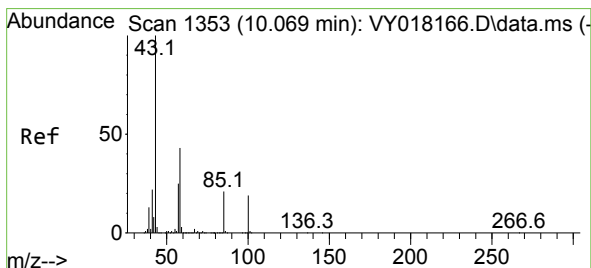
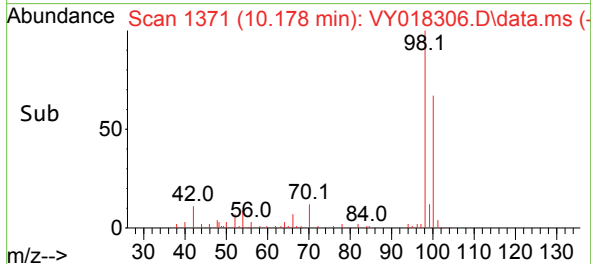
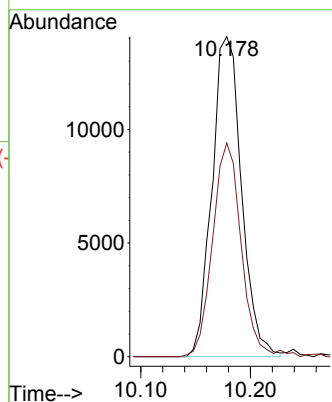
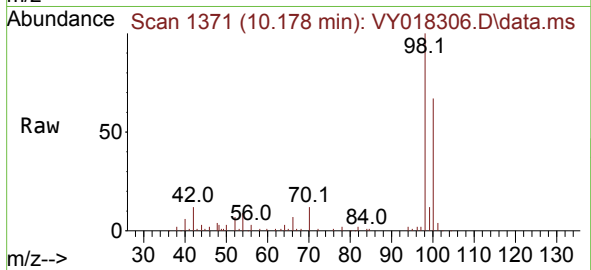




#50
Toluene-d8
Concen: 49.540 ug/l
RT: 10.178 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY018306.D
Acq: 17 May 2024 14:22

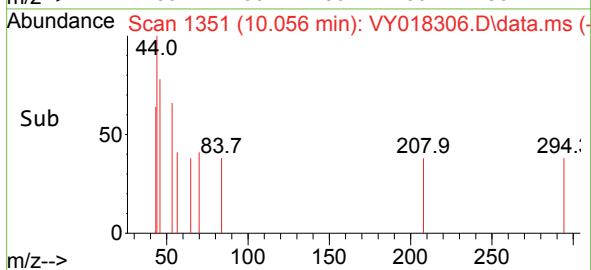
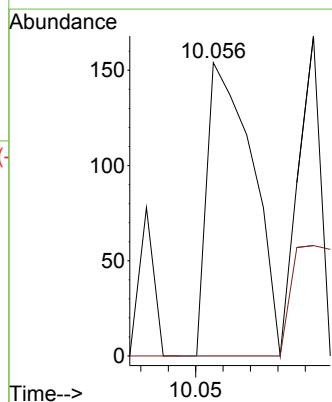
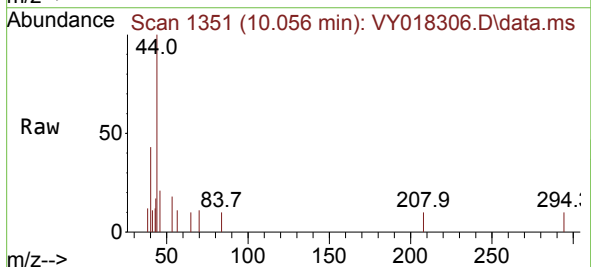
Instrument :
MSVOA_Y
ClientSampleId :
TP-17

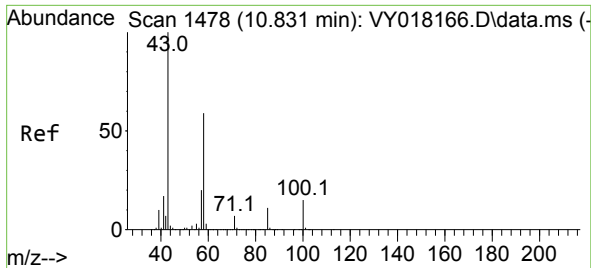
Tgt Ion: 98 Resp: 26350
Ion Ratio Lower Upper
98 100
100 64.8 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 2.110 ug/l
RT: 10.056 min Scan# 1351
Delta R.T. -0.013 min
Lab File: VY018306.D
Acq: 17 May 2024 14:22

Tgt Ion: 43 Resp: 177
Ion Ratio Lower Upper
43 100
58 0.0 35.7 53.5#

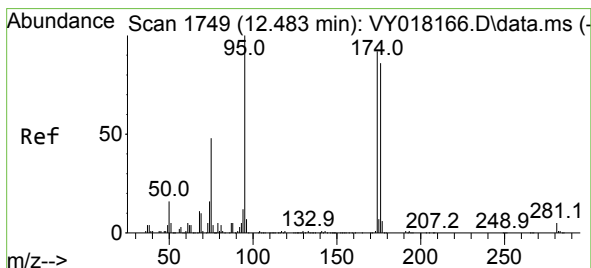
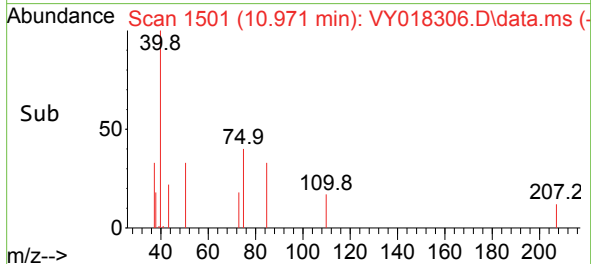
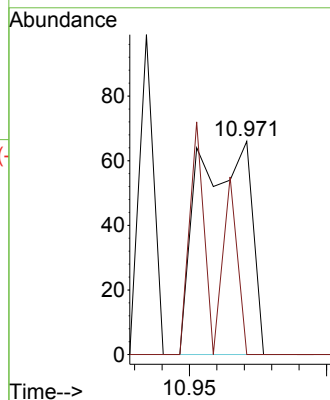
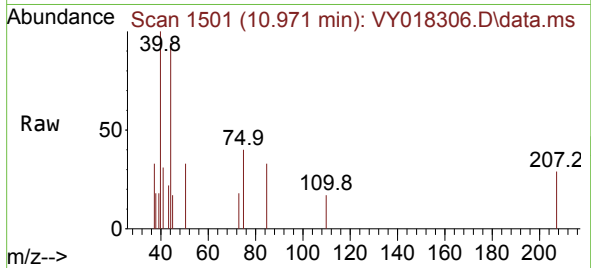




#59
2-Hexanone
Concen: 1.466 ug/l
RT: 10.971 min Scan# 11
Delta R.T. 0.140 min
Lab File: VY018306.D
Acq: 17 May 2024 14:22

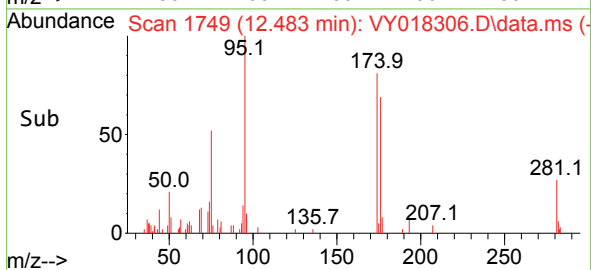
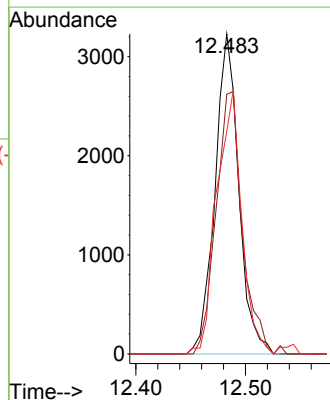
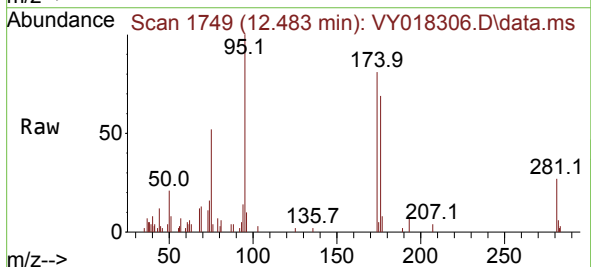
Instrument :
MSVOA_Y
ClientSampleId :
TP-17

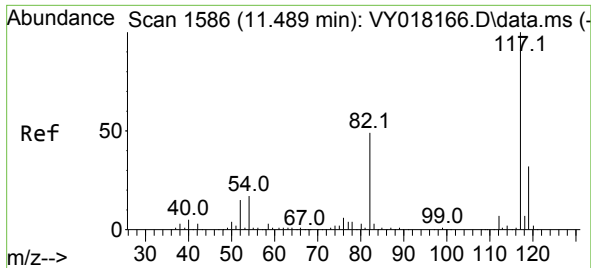
Tgt Ion: 43 Resp: 86
Ion Ratio Lower Upper
43 100
58 53.5 31.4 94.0



#62
4-Bromofluorobenzene
Concen: 28.352 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VY018306.D
Acq: 17 May 2024 14:22

Tgt Ion: 95 Resp: 4870
Ion Ratio Lower Upper
95 100
174 90.6 0.0 175.6
176 86.9 0.0 171.4

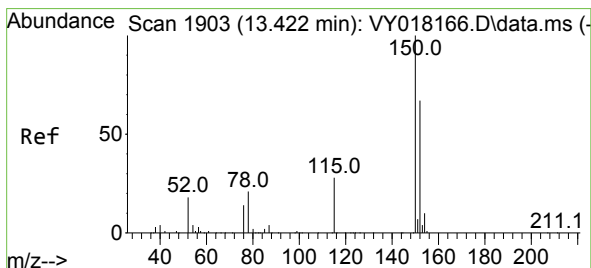
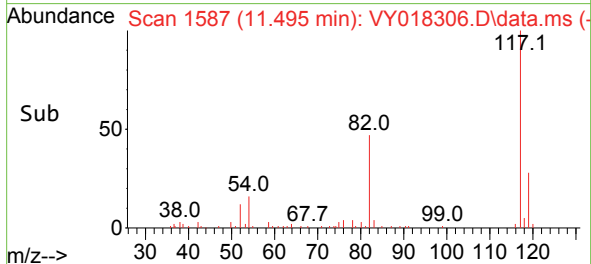
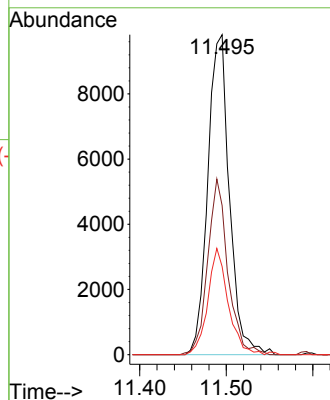
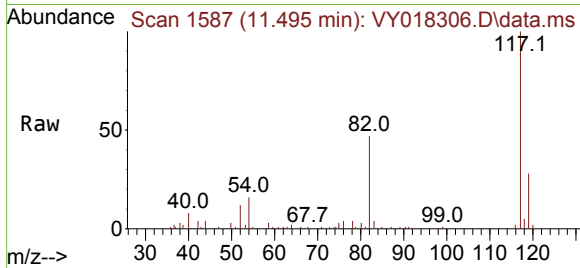




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.495 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY018306.D
Acq: 17 May 2024 14:22

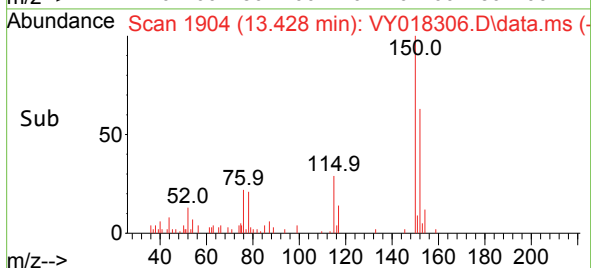
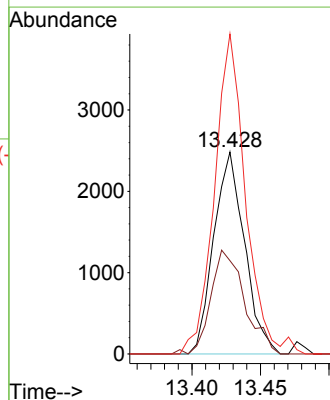
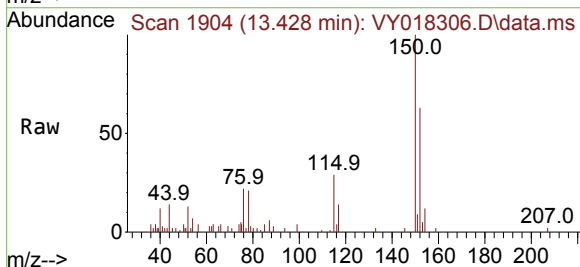
Instrument :
MSVOA_Y
ClientSampleId :
TP-17

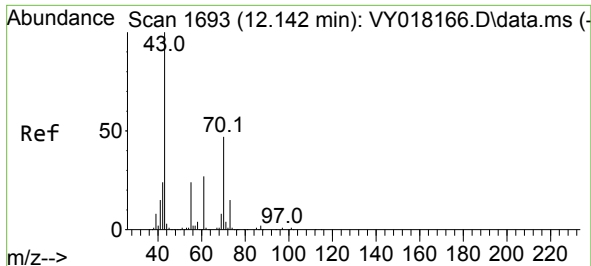
Tgt Ion:117	Resp:	17047
Ion Ratio	Lower	Upper
117	100	
82	46.6	42.4 63.6
119	27.6	25.9 38.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.428 min Scan# 1904
Delta R.T. 0.006 min
Lab File: VY018306.D
Acq: 17 May 2024 14:22

Tgt Ion:152	Resp:	3877
Ion Ratio	Lower	Upper
152	100	
115	56.6	28.2 84.7
150	160.1	0.0 345.6

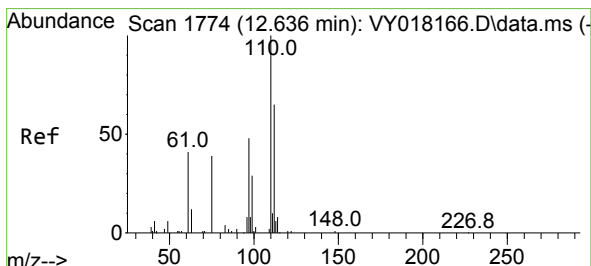
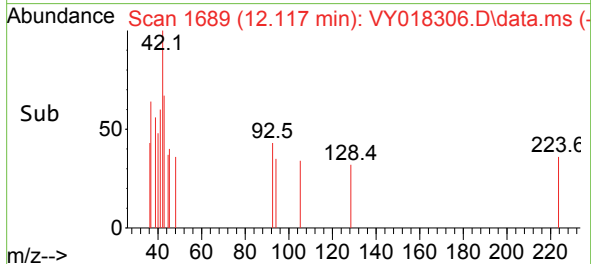
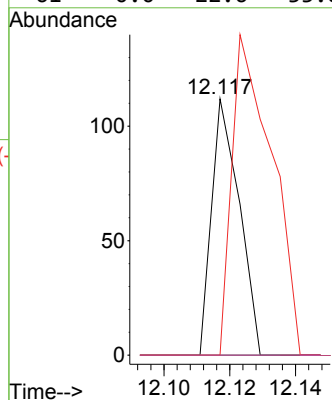
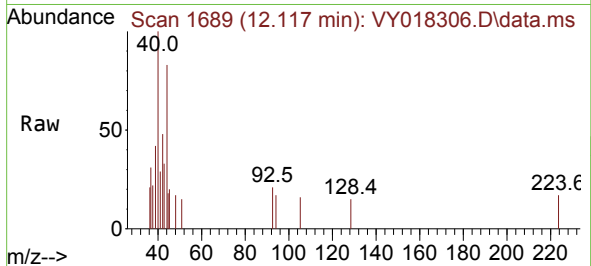




#74
N-amy1 acetate
Concen: 1.077 ug/l
RT: 12.117 min Scan# 1689
Delta R.T. -0.025 min
Lab File: VY018306.D
Acq: 17 May 2024 14:22

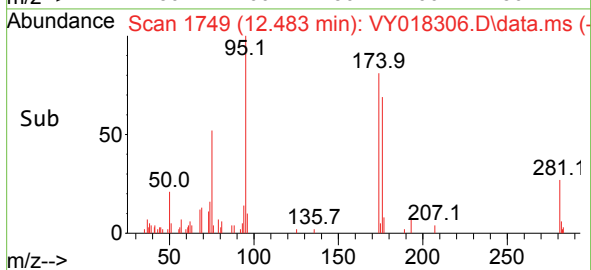
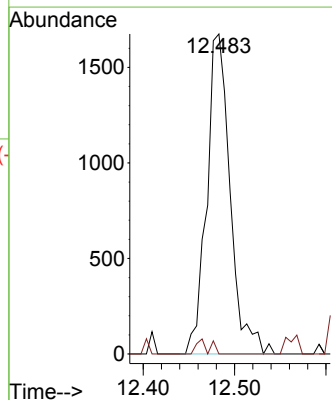
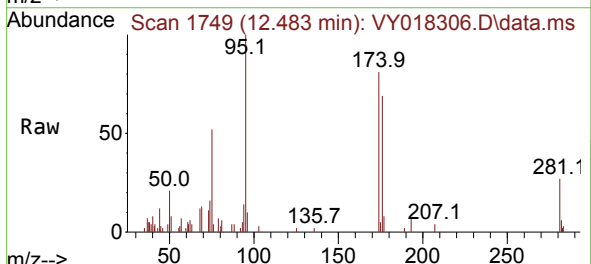
Instrument :
MSVOA_Y
ClientSampleId :
TP-17

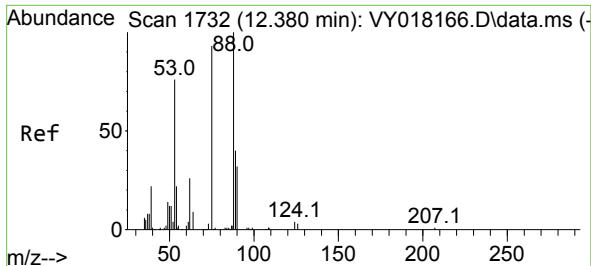
Tgt Ion:	43	Resp:	65
Ion	Ratio	Lower	Upper
43	100		
70	0.0	41.4	62.2#
55	180.0	23.3	34.9#
61	0.0	22.6	33.8#



#76
1,2,3-Trichloropropane
Concen: 95.995 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. -0.153 min
Lab File: VY018306.D
Acq: 17 May 2024 14:22

Tgt Ion:	75	Resp:	2979
Ion	Ratio	Lower	Upper
75	100		
77	2.5	0.0	0.0#

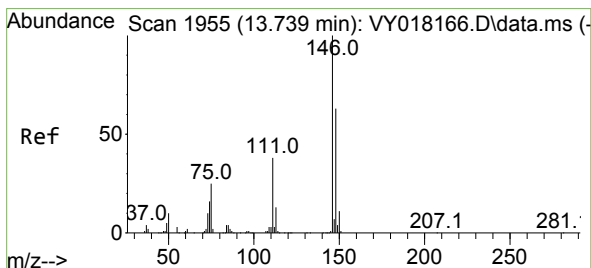
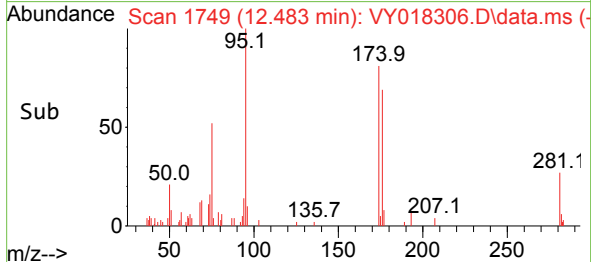
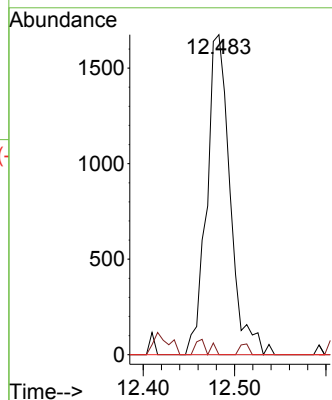
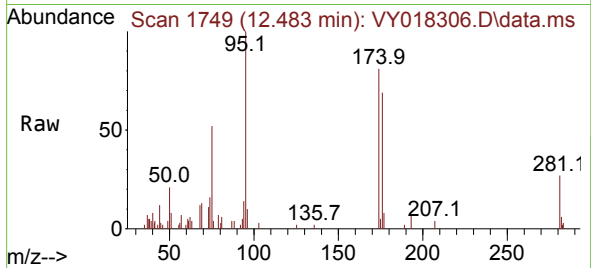




#81
trans-1,4-Dichloro-2-butene
Concen: 184.950 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.103 min
Lab File: VY018306.D
Acq: 17 May 2024 14:22

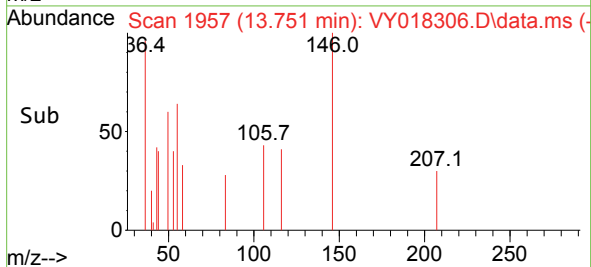
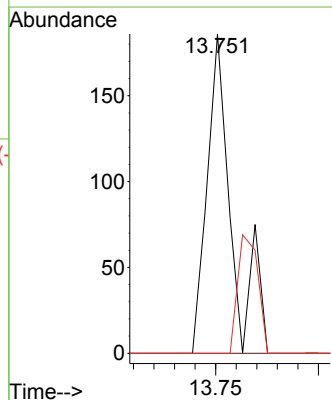
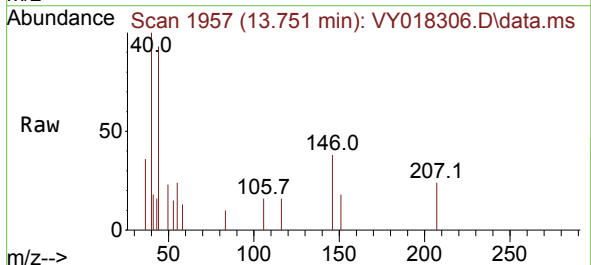
Instrument :
MSVOA_Y
ClientSampleId :
TP-17

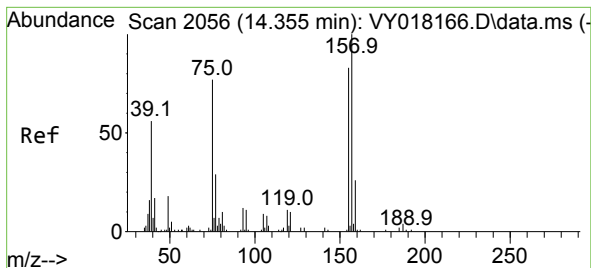
Tgt Ion: 75 Resp: 2979
Ion Ratio Lower Upper
75 100
53 2.6 66.8 100.2#
89 0.0 35.8 53.6#



#91
1,2-Dichlorobenzene
Concen: 1.389 ug/l
RT: 13.751 min Scan# 1957
Delta R.T. 0.012 min
Lab File: VY018306.D
Acq: 17 May 2024 14:22

Tgt Ion: 146 Resp: 154
Ion Ratio Lower Upper
146 100
111 0.0 19.9 59.7#
148 30.5 31.8 95.4#

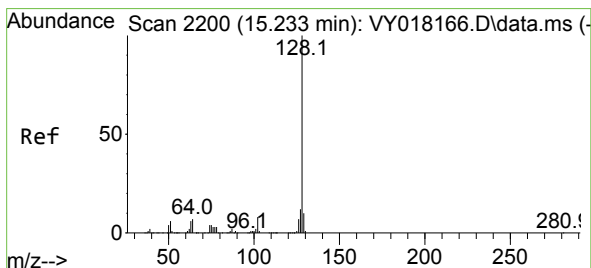
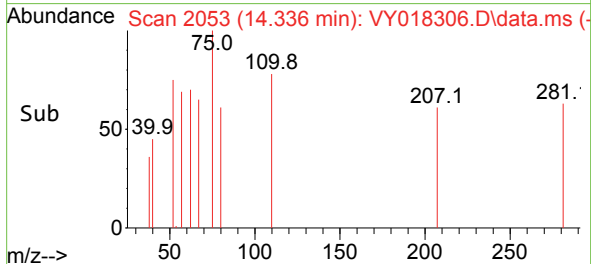
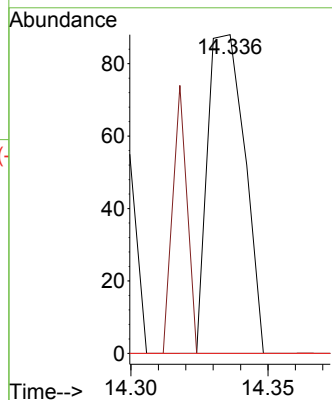
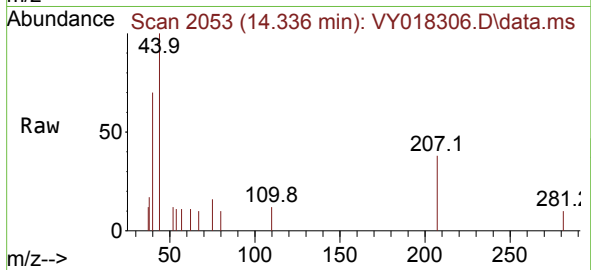




#92
1,2-Dibromo-3-Chloropropane
Concen: 13.146 ug/l
RT: 14.336 min Scan# 2053
Delta R.T. -0.019 min
Lab File: VY018306.D
Acq: 17 May 2024 14:22

Instrument :
MSVOA_Y
ClientSampleId :
TP-17

Tgt Ion: 75 Resp: 83
Ion Ratio Lower Upper
75 100
155 0.0 48.6 145.8#
157 0.0 62.7 188.2#



#95
Naphthalene
Concen: 1.060 ug/l
RT: 15.238 min Scan# 2201
Delta R.T. 0.006 min
Lab File: VY018306.D
Acq: 17 May 2024 14:22

Tgt Ion: 128 Resp: 121
Ion Ratio Lower Upper
128 100
127 45.5 10.6 16.0#
129 0.0 8.6 13.0#

