

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082423\
 Data File : VY015327.D
 Acq On : 24 Aug 2023 21:11
 Operator : SY/MD
 Sample : 04147-04
 Misc : 3.43g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Aug 25 03:27:28 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081423S.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 14 12:43:26 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.789	168	174093	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	286900	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	267468	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	126303	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.142	65	108367	51.855	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 103.700%	
35) Dibromofluoromethane	7.716	113	90401	48.979	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 97.960%	
50) Toluene-d8	10.179	98	339583	49.424	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 98.840%	
62) 4-Bromofluorobenzene	12.477	95	121297	48.334	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 96.660%	

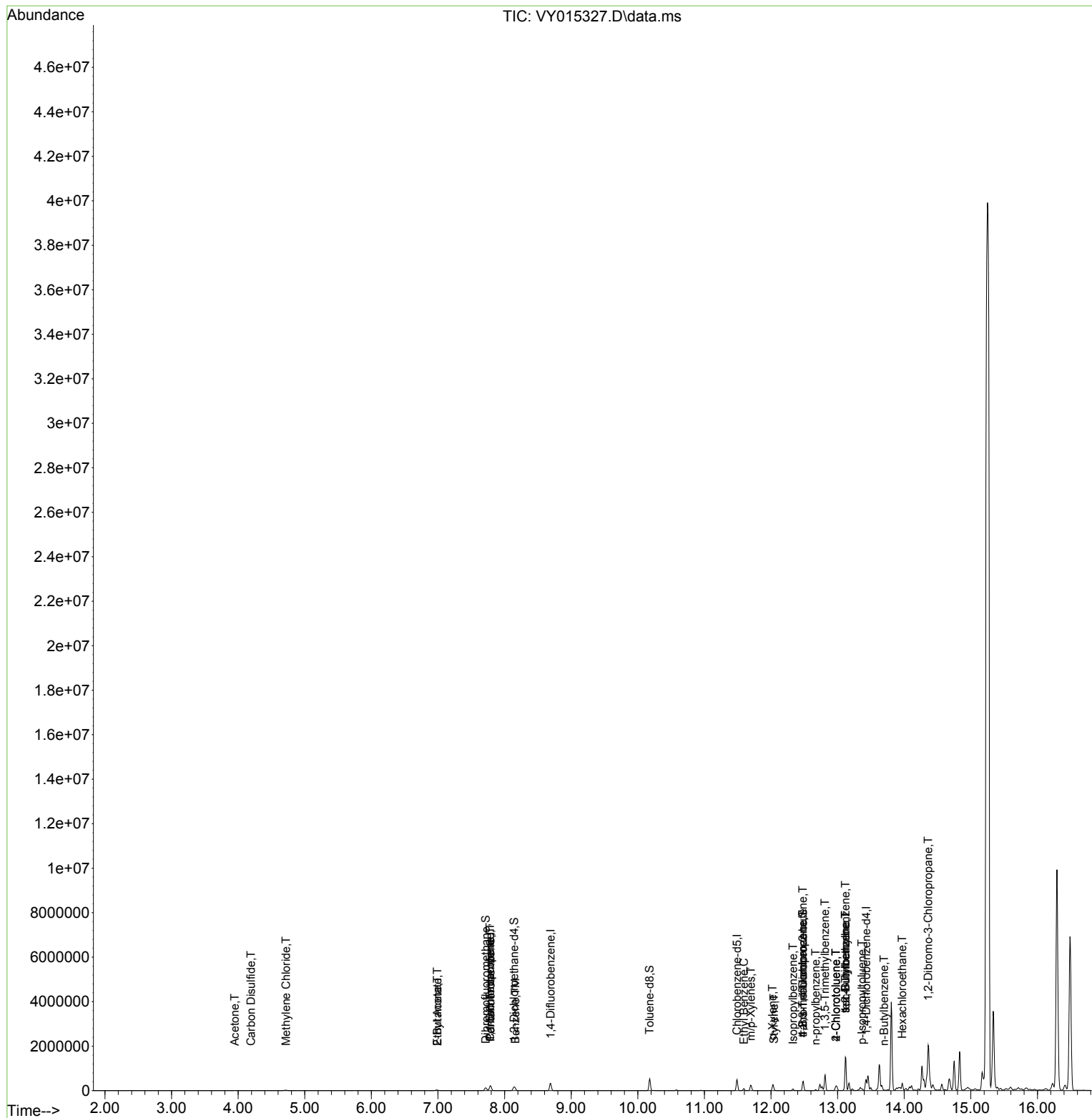
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.900	85	23	Below Cal	#	43
3) Chloromethane	2.119	50	275	Below Cal	#	86
5) Bromomethane	2.656	94	196	Below Cal	#	70
11) Tert butyl alcohol	4.954	59	444	Below Cal	#	89
13) Acrolein	3.710	56	38	Below Cal	#	14
16) Acetone	3.948	43	10664	15.620	ug/l	90
17) Carbon Disulfide	4.192	76	14785	6.935	ug/l	95
20) Methylene Chloride	4.716	84	15968	5.949	ug/l #	87
25) 2-Butanone	6.990	43	4859	5.027	ug/l	91
31) Cyclohexane	7.783	56	3887	Below Cal	#	1
36) 1,1-Dichloropropene	7.783	75	13335	6.530	ug/l #	50
37) Ethyl Acetate	6.990	43	4859	2.553	ug/l #	64
38) Carbon Tetrachloride	7.783	117	17391	7.196	ug/l #	16
40) Benzene	8.161	78	67323	10.905	ug/l	100
67) Ethyl Benzene	11.593	91	62215	7.286	ug/l	96
68) m/p-Xylenes	11.697	106	73455	22.651	ug/l	97
69) o-Xylene	12.026	106	68210	21.114	ug/l	97
70) Styrene	12.044	104	21508	3.847	ug/l #	58
73) Isopropylbenzene	12.331	105	46435	5.717	ug/l	99
76) 1,2,3-Trichloropropane	12.477	75	64929	42.313	ug/l #	100
78) n-propylbenzene	12.672	91	31294	3.245	ug/l	99
79) 2-Chlorotoluene	12.977	91	20632	3.708	ug/l	93
80) 1,3,5-Trimethylbenzene	12.812	105	358133	52.900	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.477	75	64929	92.940	ug/l #	11
82) 4-Chlorotoluene	12.977	91	20631	3.589	ug/l	93
83) tert-Butylbenzene	13.117	119	100008	16.150	ug/l #	63
84) 1,2,4-Trimethylbenzene	13.117	105	805936	119.134	ug/l	98
85) sec-Butylbenzene	13.117	105	805936	88.827	ug/l #	56
86) p-Isopropyltoluene	13.367	119	22260	2.959	ug/l	88
89) n-Butylbenzene	13.696	91	9111	1.285	ug/l #	71
90) Hexachloroethane	13.971	117	8075	5.411	ug/l #	8
92) 1,2-Dibromo-3-Chloropr...	14.361	75	49416	120.597	ug/l #	3

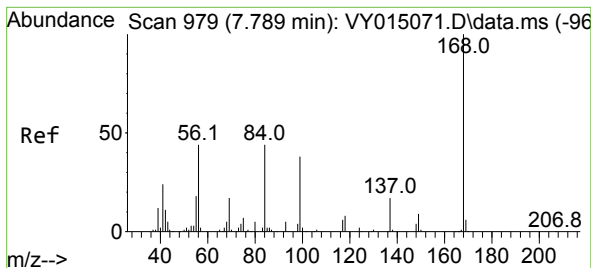
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Aug 14 12:43:26 2023
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.789 min Scan# 91

Delta R.T. 0.006 min

Lab File: VY015327.D

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Instrument :

MSVOA_Y

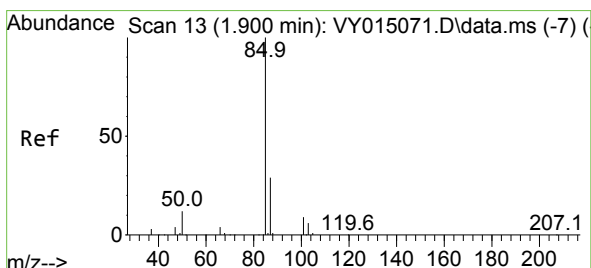
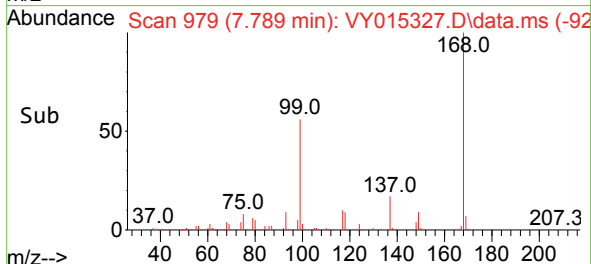
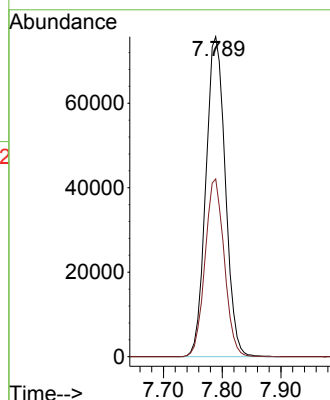
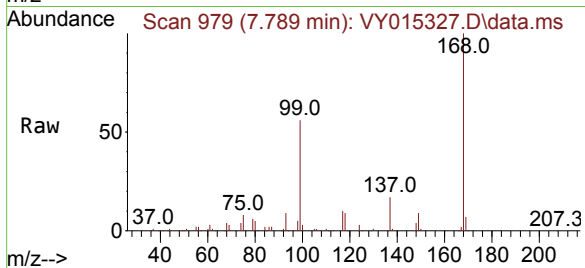
ClientSampleId :

Tgt Ion:168 Resp: 174093

Ion Ratio Lower Upper

168 100

99 55.6 43.4 65.0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.900 min Scan# 13

Delta R.T. -0.000 min

Lab File: VY015327.D

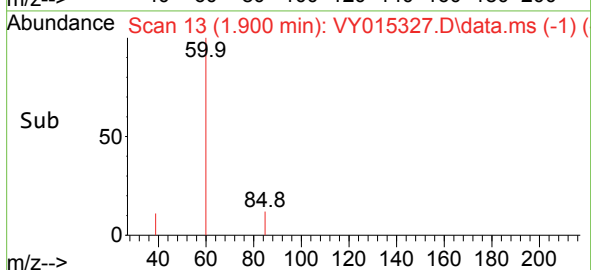
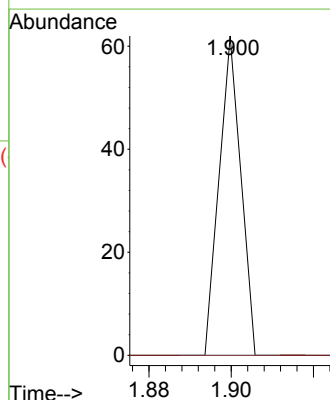
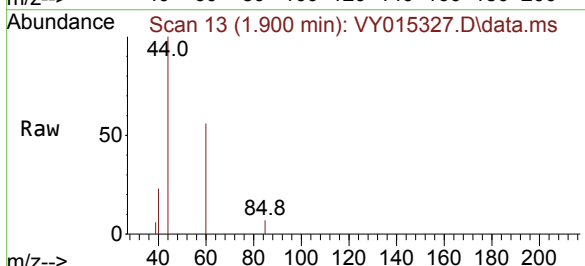
Acq: 24 Aug 2023 21:11

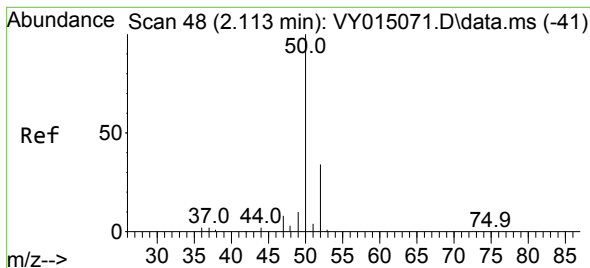
Tgt Ion: 85 Resp: 23

Ion Ratio Lower Upper

85 100

87 0.0 15.6 46.8#





#3

Chloromethane

Concen: Below Cal

RT: 2.119 min Scan# 49

Delta R.T. 0.012 min

Lab File: VY015327.D

Acq: 24 Aug 2023 21:11

Instrument :

MSVOA_Y

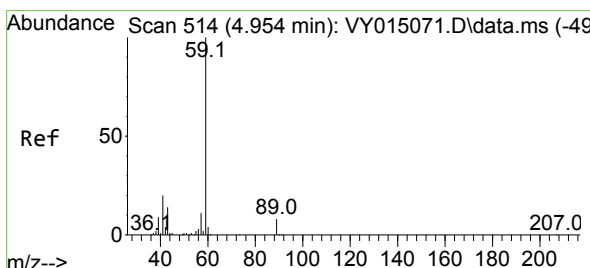
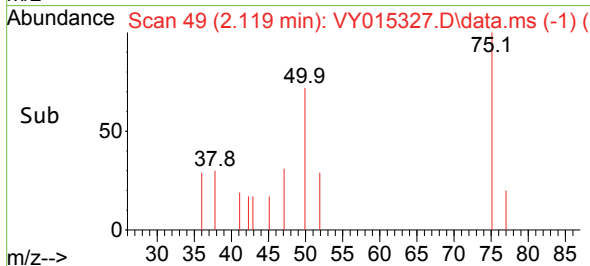
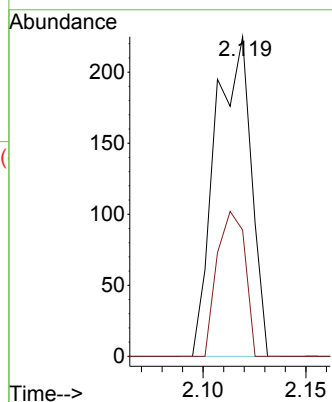
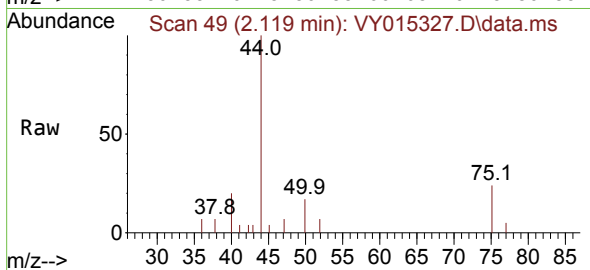
ClientSampleId :

Tgt Ion: 50 Resp: 275

Ion Ratio Lower Upper

50 100

52 39.6 25.4 38.2#



#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.954 min Scan# 514

Delta R.T. 0.006 min

Lab File: VY015327.D

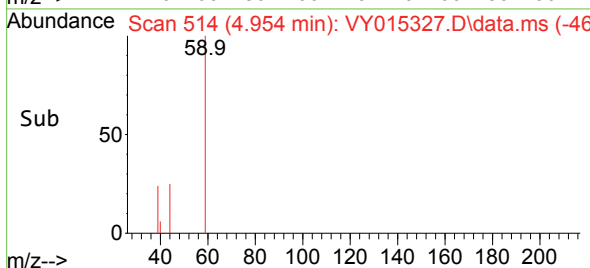
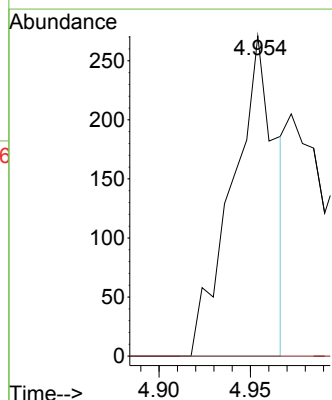
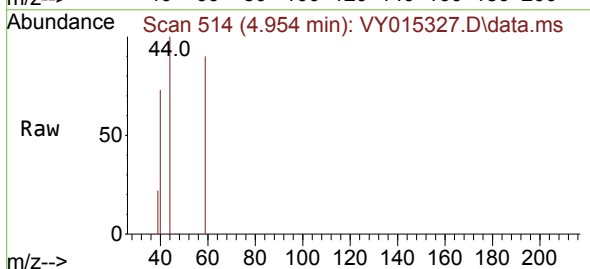
Acq: 24 Aug 2023 21:11

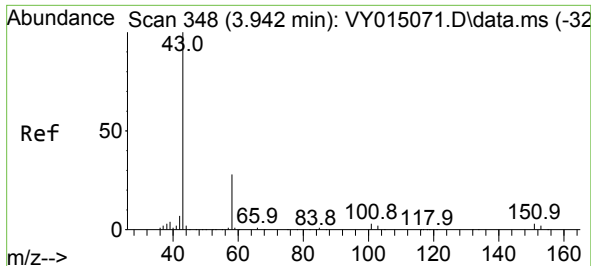
Tgt Ion: 59 Resp: 444

Ion Ratio Lower Upper

59 100

57 0.0 3.0 4.4#





#16

Acetone

Concen: 15.620 ug/l

RT: 3.948 min Scan# 34

Delta R.T. 0.006 min

Lab File: VY015327.D

Acq: 24 Aug 2023 21:11

Instrument :

MSVOA_Y

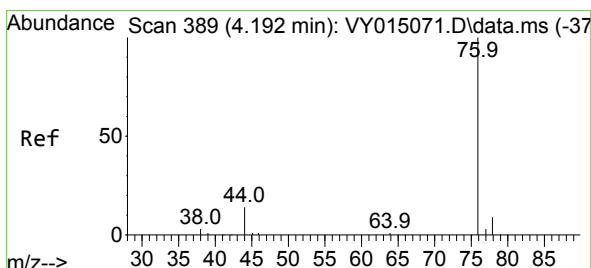
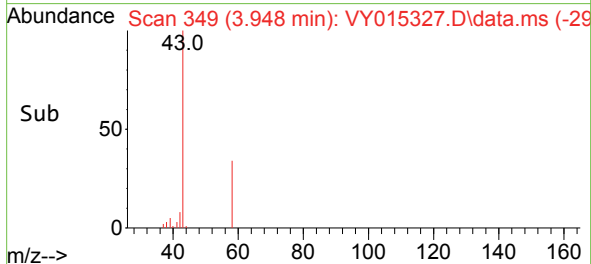
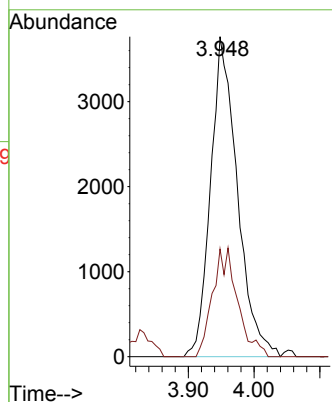
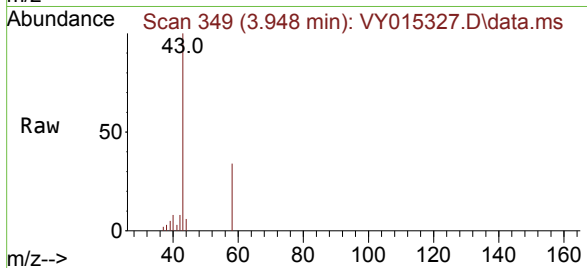
ClientSampleId :

Tgt Ion: 43 Resp: 10664

Ion Ratio Lower Upper

43 100

58 33.7 22.7 34.1



#17

Carbon Disulfide

Concen: 6.935 ug/l

RT: 4.192 min Scan# 389

Delta R.T. 0.006 min

Lab File: VY015327.D

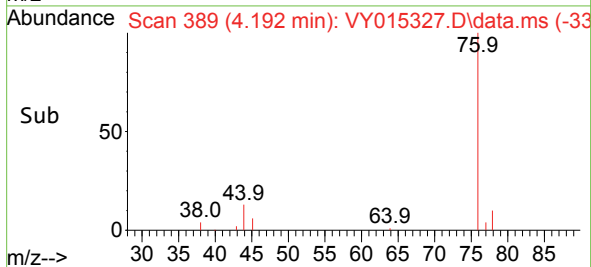
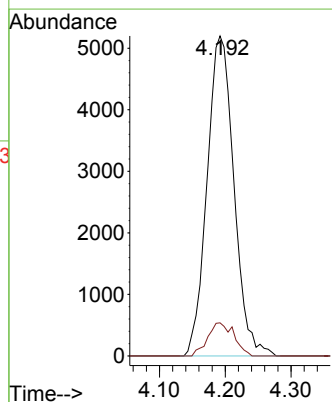
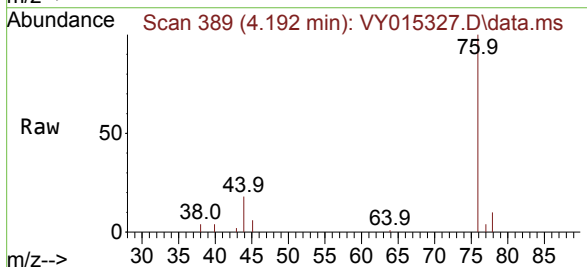
Acq: 24 Aug 2023 21:11

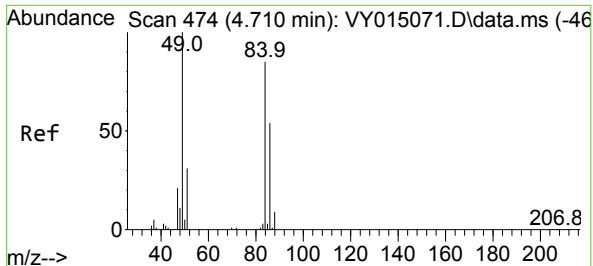
Tgt Ion: 76 Resp: 14785

Ion Ratio Lower Upper

76 100

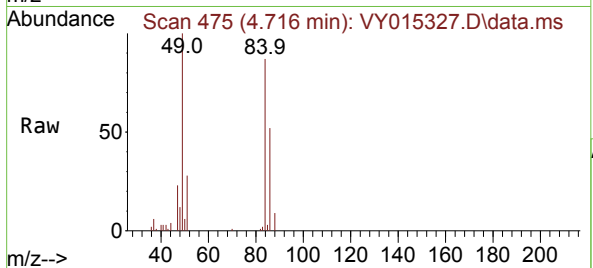
78 10.3 7.0 10.4



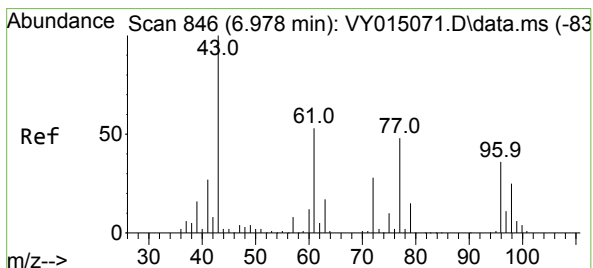
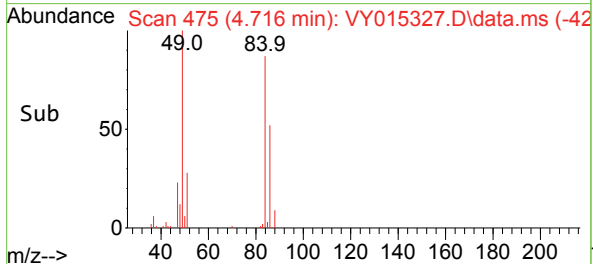
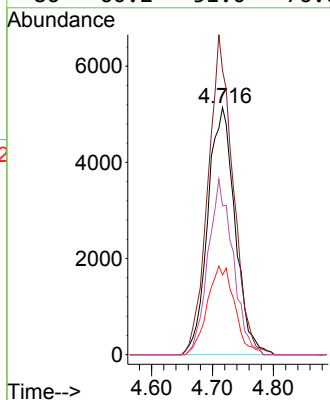


#20
Methylene Chloride
Concen: 5.949 ug/l
RT: 4.716 min Scan# 41
Delta R.T. 0.006 min
Lab File: VY015327.D
Acq: 24 Aug 2023 21:11

Instrument :
MSVOA_Y
ClientSampleId :

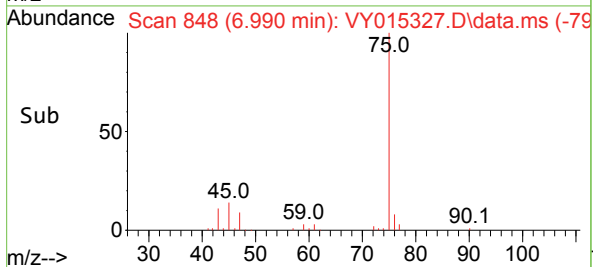
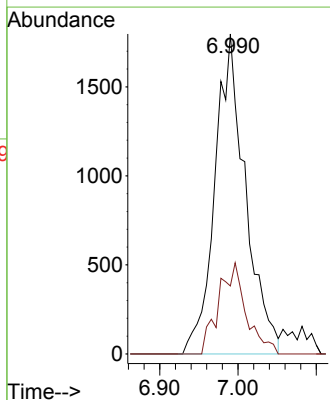
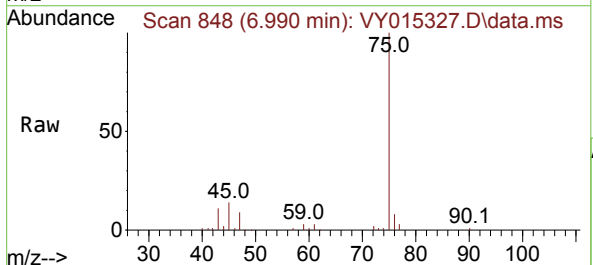


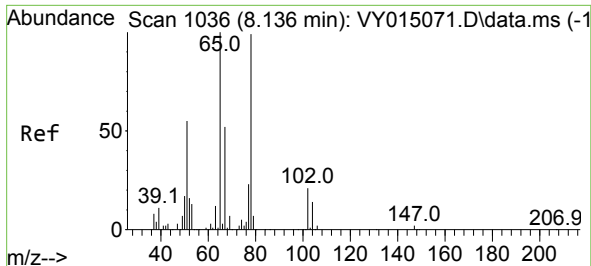
Tgt Ion: 84 Resp: 15968
Ion Ratio Lower Upper
84 100
49 114.9 106.9 160.3
51 32.3 33.2 49.8#
86 60.2 51.0 76.6



#25
2-Butanone
Concen: 5.027 ug/l
RT: 6.990 min Scan# 848
Delta R.T. 0.012 min
Lab File: VY015327.D
Acq: 24 Aug 2023 21:11

Tgt Ion: 43 Resp: 4859
Ion Ratio Lower Upper
43 100
72 21.3 20.5 30.7





#33

1,2-Dichloroethane-d4

Concen: 51.855 ug/l

RT: 8.142 min Scan# 110

Delta R.T. 0.006 min

Lab File: VY015327.D

Acq: 24 Aug 2023 21:11

Instrument :

MSVOA_Y

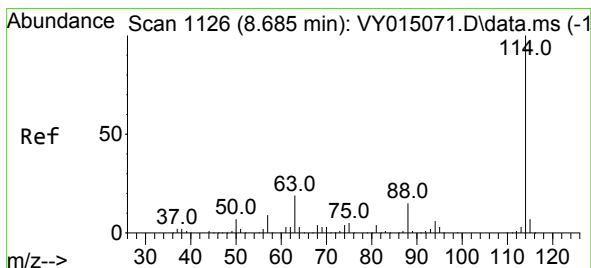
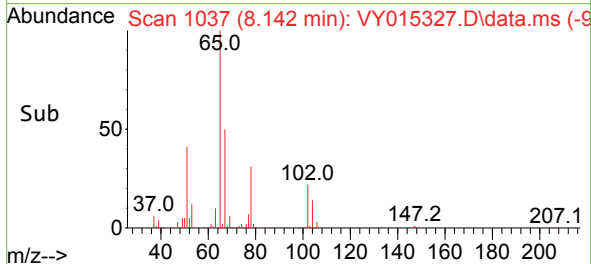
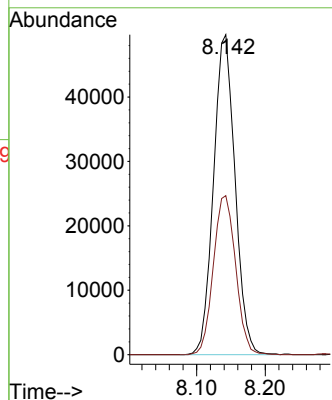
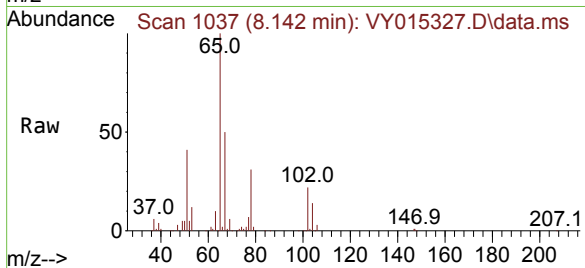
ClientSampleId :

Tgt Ion: 65 Resp: 108367

Ion Ratio Lower Upper

65 100

67 51.4 0.0 101.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VY015327.D

Acq: 24 Aug 2023 21:11

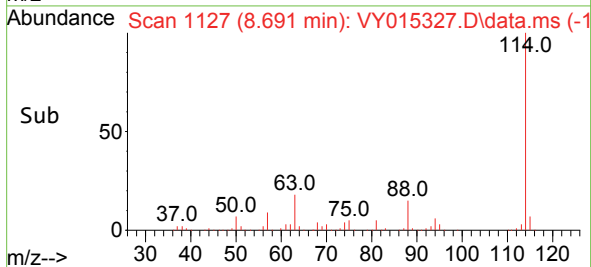
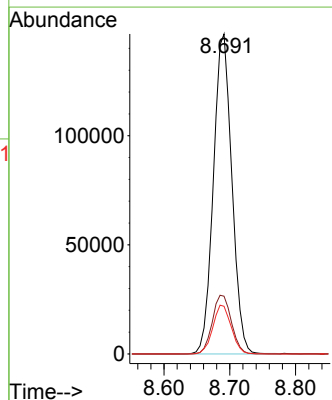
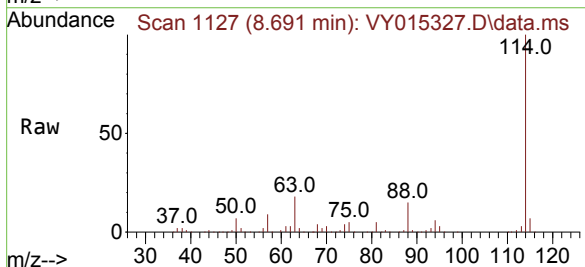
Tgt Ion: 114 Resp: 286900

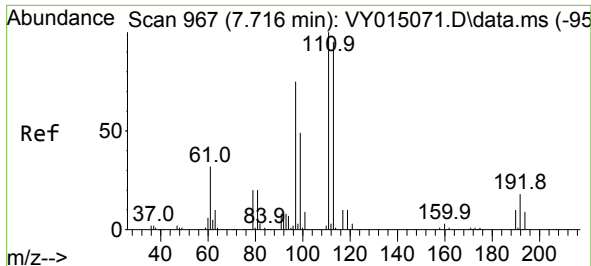
Ion Ratio Lower Upper

114 100

63 18.1 0.0 42.4

88 14.9 0.0 30.6

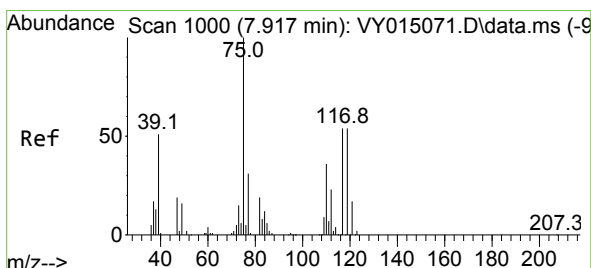
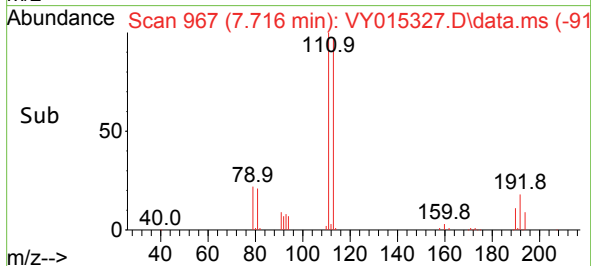
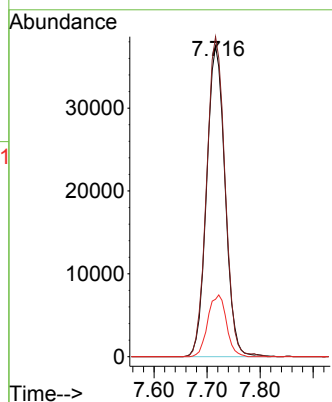
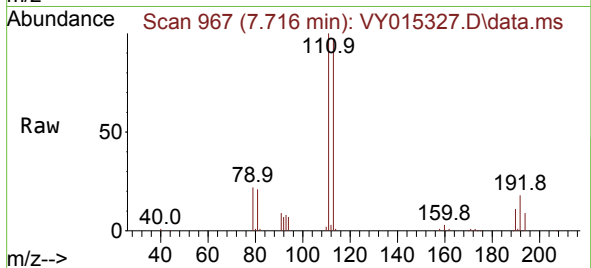




#35
Dibromofluoromethane
Concen: 48.979 ug/l
RT: 7.716 min Scan# 901
Delta R.T. 0.000 min
Lab File: VY015327.D
Acq: 24 Aug 2023 21:11

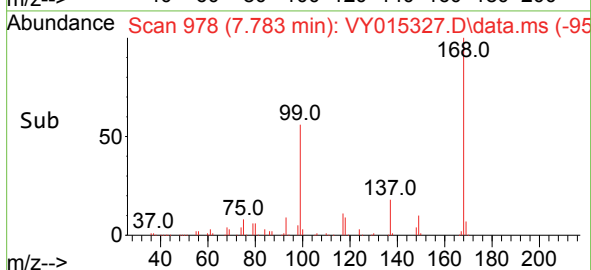
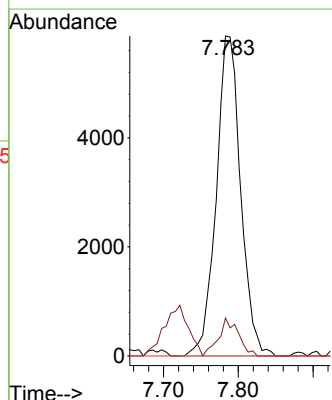
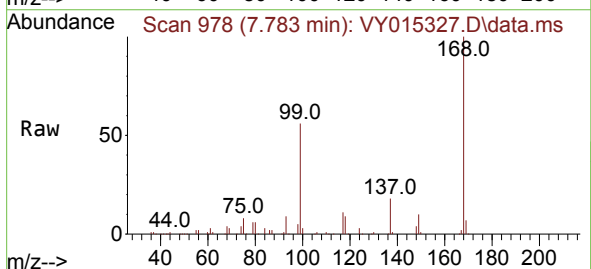
Instrument :
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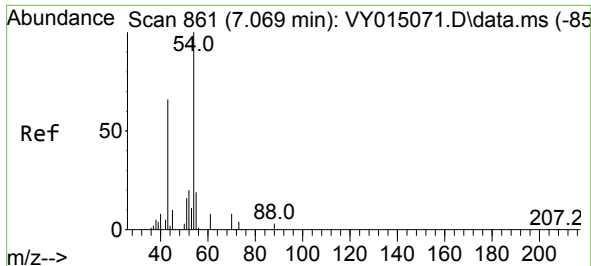
Tgt Ion:113 Resp: 90401
Ion Ratio Lower Upper
113 100
111 103.0 81.3 121.9
192 20.1 16.9 25.3



#36
1,1-Dichloropropene
Concen: 6.530 ug/l
RT: 7.783 min Scan# 978
Delta R.T. -0.128 min
Lab File: VY015327.D
Acq: 24 Aug 2023 21:11

Tgt Ion: 75 Resp: 13335
Ion Ratio Lower Upper
75 100
110 9.6 17.8 53.5#
77 0.0 24.4 36.6#





#37

Ethyl Acetate

Concen: 2.553 ug/l

RT: 6.990 min Scan# 84

Delta R.T. -0.079 min

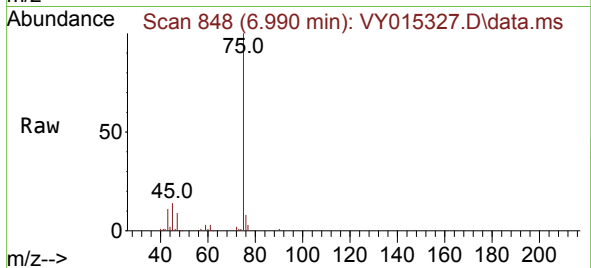
Lab File: VY015327.D

Acq: 24 Aug 2023 21:11

Instrument :

MSVOA_Y

ClientSampleId :



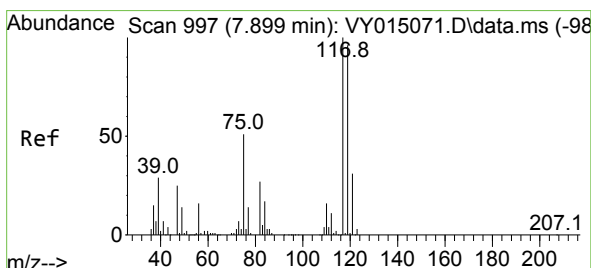
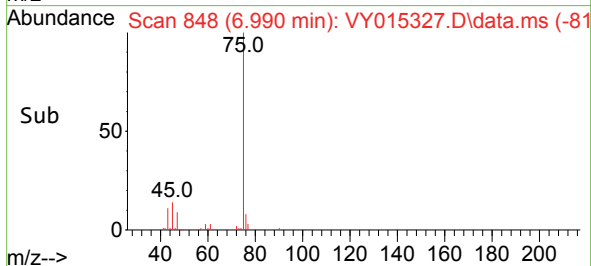
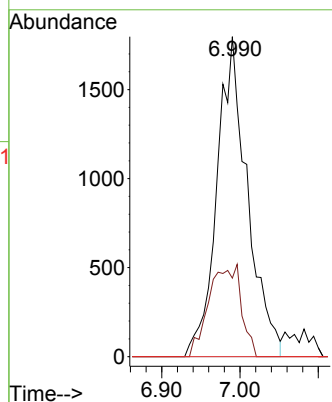
Tgt Ion: 43 Resp: 4859

Ion Ratio Lower Upper

43 100

61 30.2 10.1 15.1#

70 0.0 7.1 10.7#



#38

Carbon Tetrachloride

Concen: 7.196 ug/l

RT: 7.783 min Scan# 978

Delta R.T. -0.116 min

Lab File: VY015327.D

Acq: 24 Aug 2023 21:11

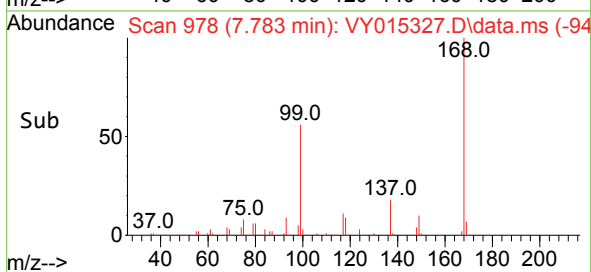
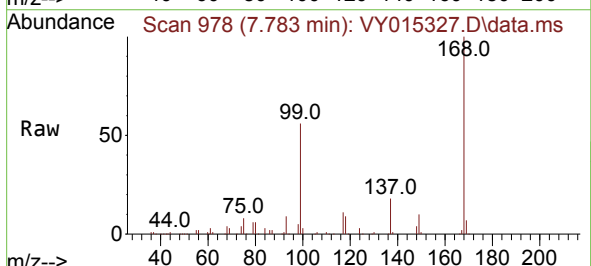
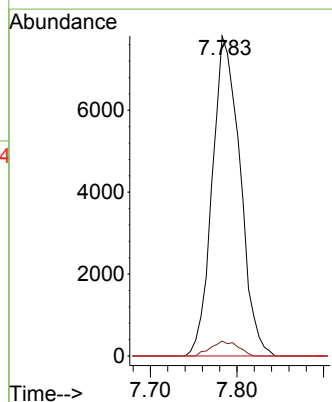
Tgt Ion: 117 Resp: 17391

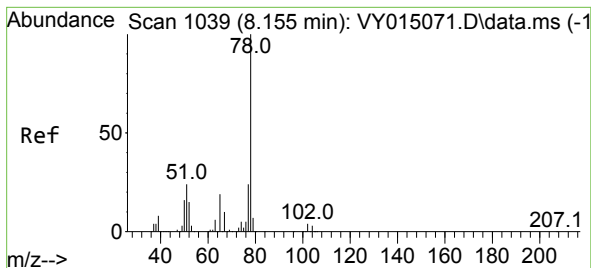
Ion Ratio Lower Upper

117 100

119 4.7 76.4 114.6#

121 0.0 25.8 38.6#





#40

Benzene

Concen: 10.905 ug/l

RT: 8.161 min Scan# 1040

Delta R.T. 0.006 min

Lab File: VY015327.D

Acq: 24 Aug 2023 21:11

Instrument :

MSVOA_Y

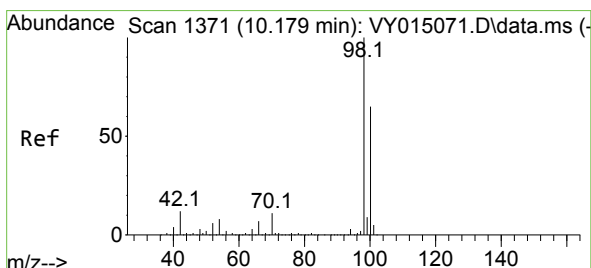
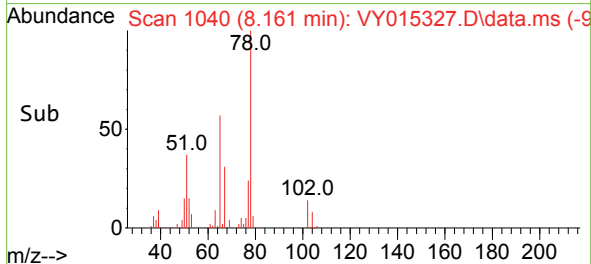
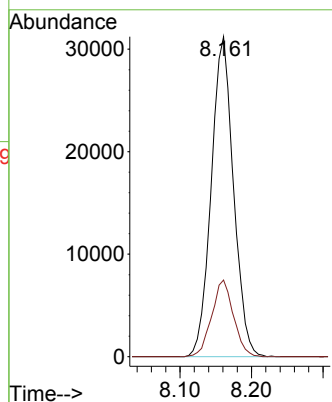
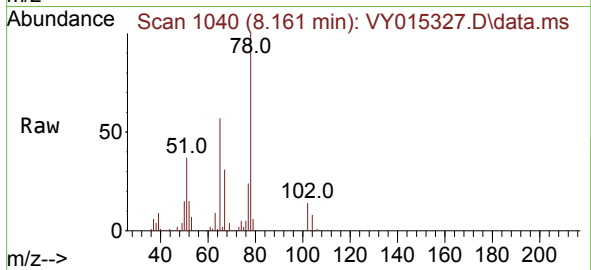
ClientSampleId :

Tgt Ion: 78 Resp: 67323

Ion Ratio Lower Upper

78 100

77 23.9 19.0 28.6



#50

Toluene-d8

Concen: 49.424 ug/l

RT: 10.179 min Scan# 1371

Delta R.T. 0.000 min

Lab File: VY015327.D

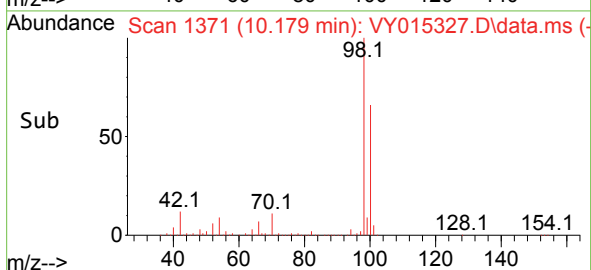
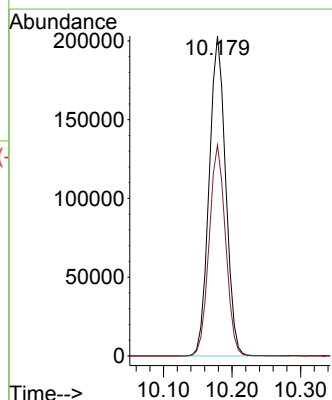
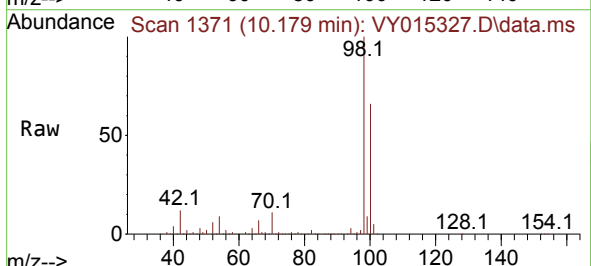
Acq: 24 Aug 2023 21:11

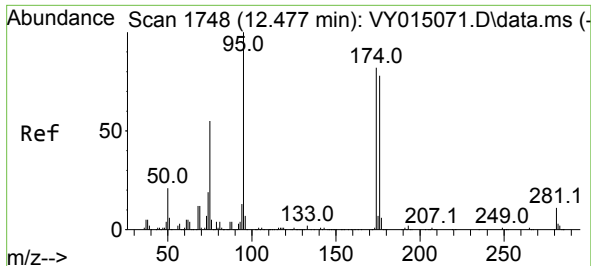
Tgt Ion: 98 Resp: 339583

Ion Ratio Lower Upper

98 100

100 65.7 50.1 75.1

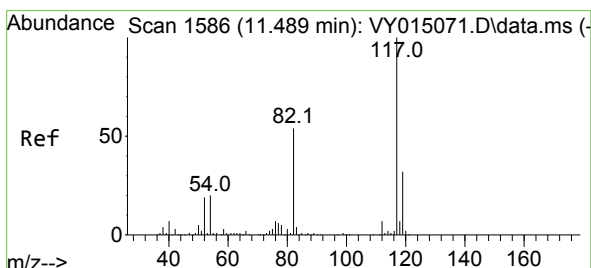
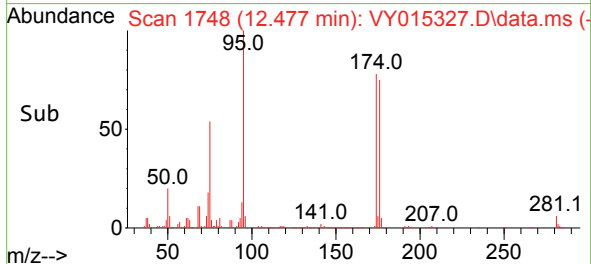
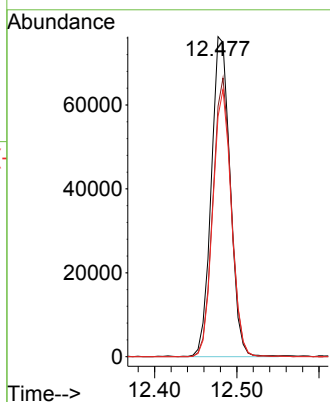
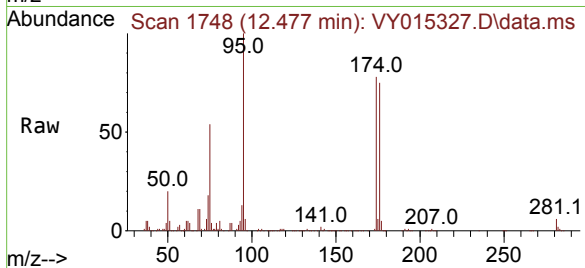




#62
4-Bromofluorobenzene
Concen: 48.334 ug/l
RT: 12.477 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY015327.D
Acq: 24 Aug 2023 21:11

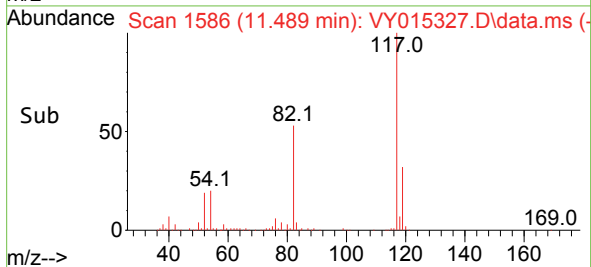
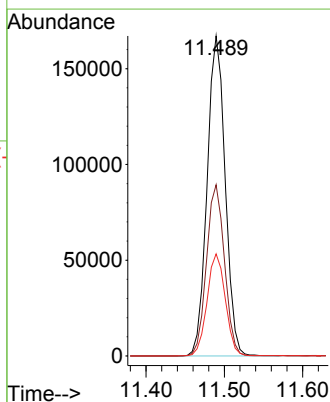
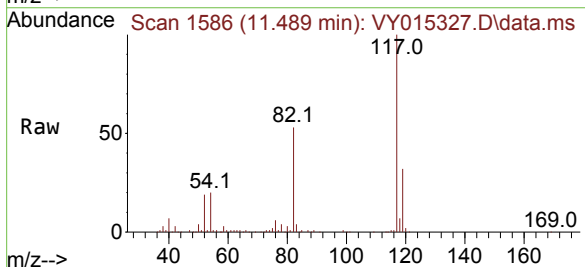
Instrument :
MSVOA_Y
ClientSampleId :

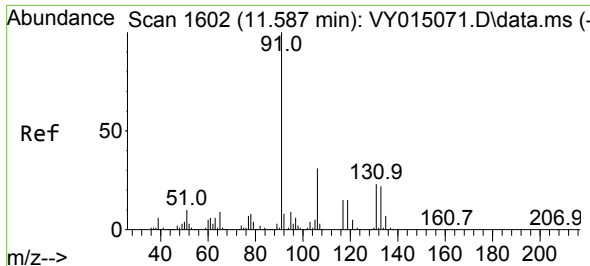
Tgt Ion: 95 Resp: 121297
Ion Ratio Lower Upper
95 100
174 85.3 0.0 178.2
176 82.3 0.0 173.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 1586
Delta R.T. 0.000 min
Lab File: VY015327.D
Acq: 24 Aug 2023 21:11

Tgt Ion: 117 Resp: 267468
Ion Ratio Lower Upper
117 100
82 53.5 43.4 65.0
119 31.8 26.3 39.5





#67

Ethyl Benzene

Concen: 7.286 ug/l

RT: 11.593 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY015327.D

Acq: 24 Aug 2023 21:11

Instrument :

MSVOA_Y

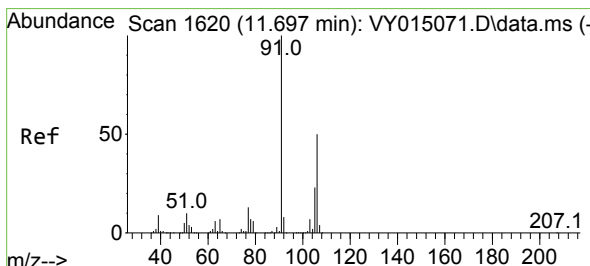
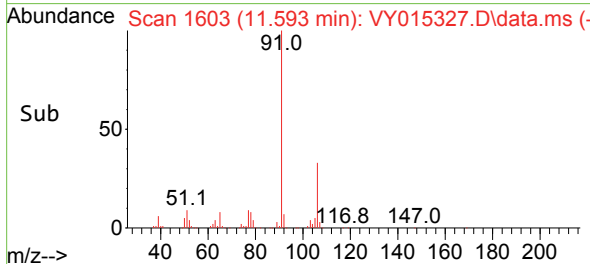
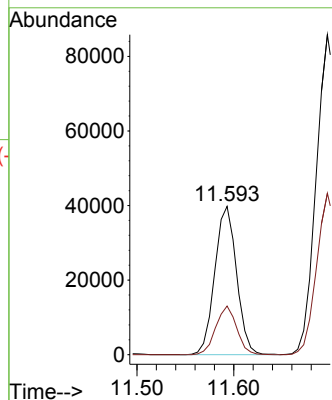
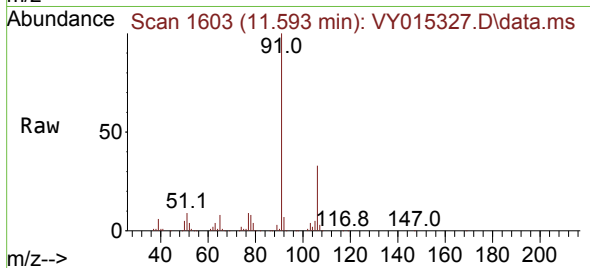
ClientSampleId :

Tgt Ion: 91 Resp: 62215

Ion Ratio Lower Upper

91 100

106 32.8 24.6 36.8



#68

m/p-Xylenes

Concen: 22.651 ug/l

RT: 11.697 min Scan# 1620

Delta R.T. 0.000 min

Lab File: VY015327.D

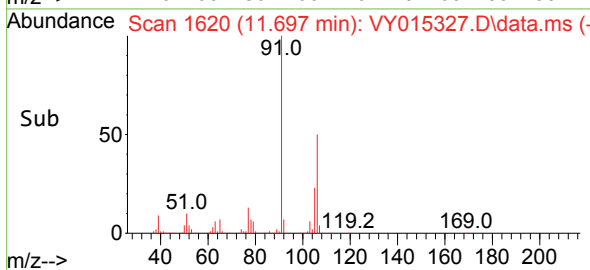
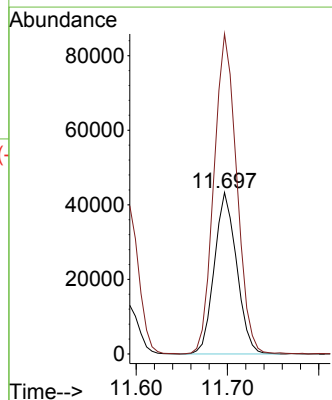
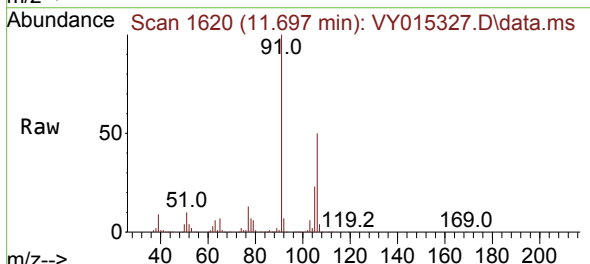
Acq: 24 Aug 2023 21:11

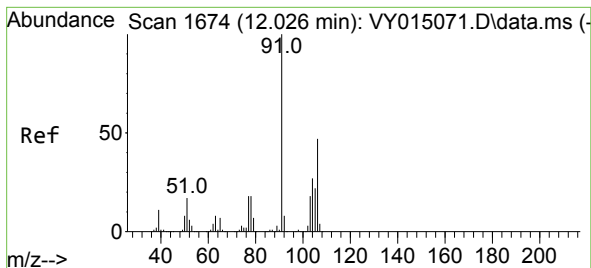
Tgt Ion: 106 Resp: 73455

Ion Ratio Lower Upper

106 100

91 203.4 166.1 249.1





#69

o-Xylene

Concen: 21.114 ug/l

RT: 12.026 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY015327.D

Acq: 24 Aug 2023 21:11

Instrument :

MSVOA_Y

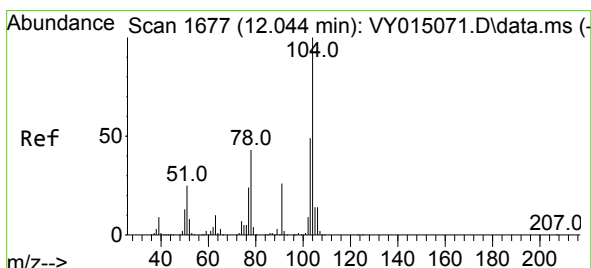
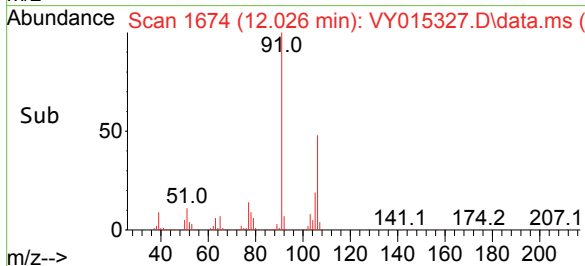
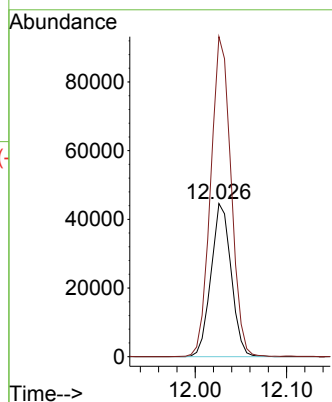
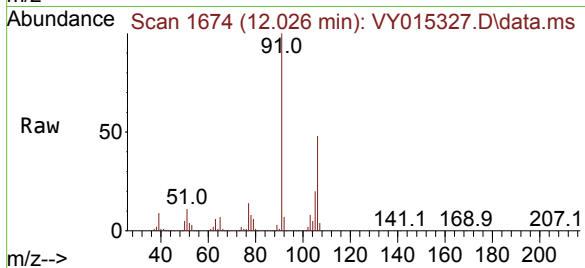
ClientSampleId :

Tgt Ion:106 Resp: 68210

Ion Ratio Lower Upper

106 100

91 211.6 108.1 324.3



#70

Styrene

Concen: 3.847 ug/l

RT: 12.044 min Scan# 1677

Delta R.T. 0.000 min

Lab File: VY015327.D

Acq: 24 Aug 2023 21:11

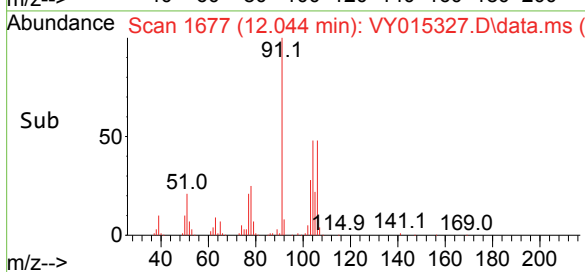
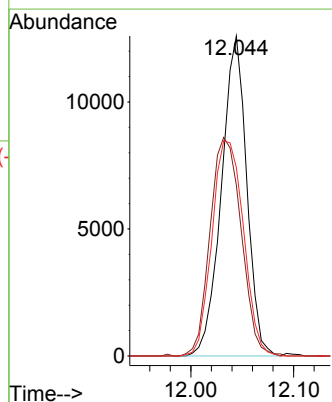
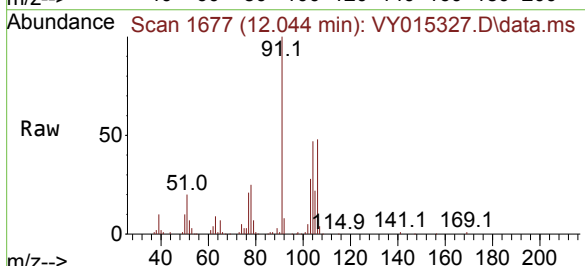
Tgt Ion:104 Resp: 21508

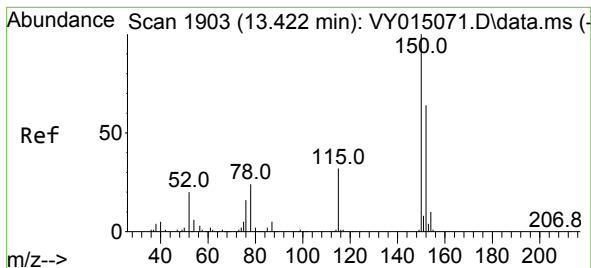
Ion Ratio Lower Upper

104 100

78 84.0 41.5 62.3#

103 83.8 44.6 67.0#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.428 min Scan# 1903

Delta R.T. 0.006 min

Lab File: VY015327.D

Acq: 24 Aug 2023 21:11

Instrument :

MSVOA_Y

ClientSampleId :

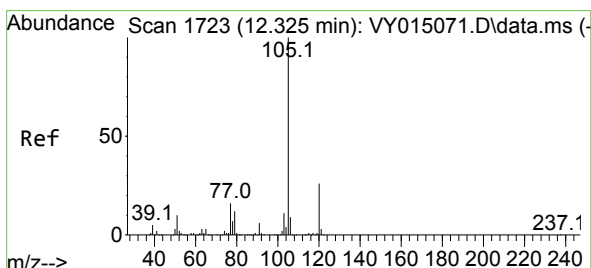
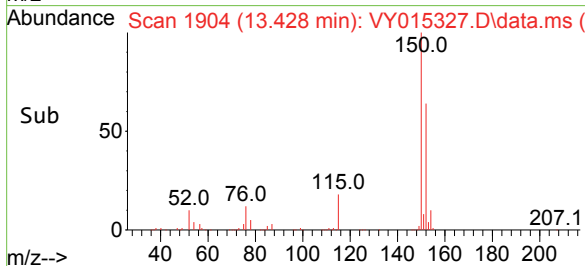
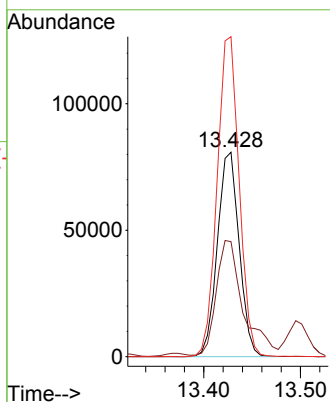
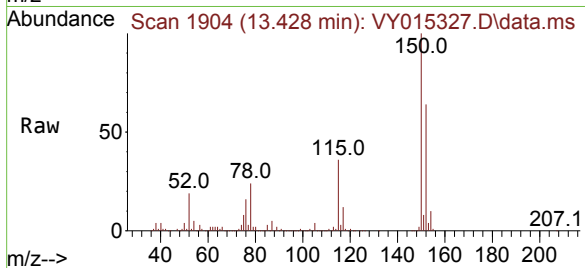
Tgt Ion:152 Resp: 126303

Ion Ratio Lower Upper

152 100

115 68.7 28.8 86.5

150 158.1 0.0 348.8



#73

Isopropylbenzene

Concen: 5.717 ug/l

RT: 12.331 min Scan# 1724

Delta R.T. 0.006 min

Lab File: VY015327.D

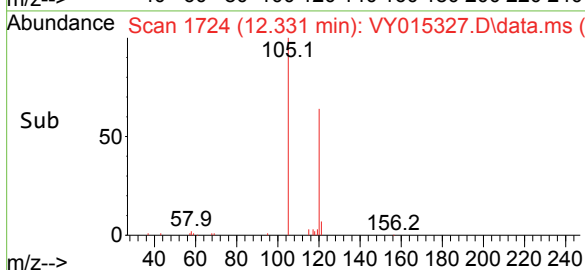
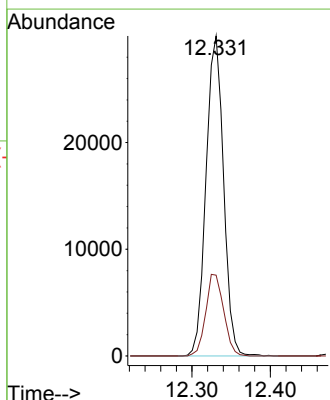
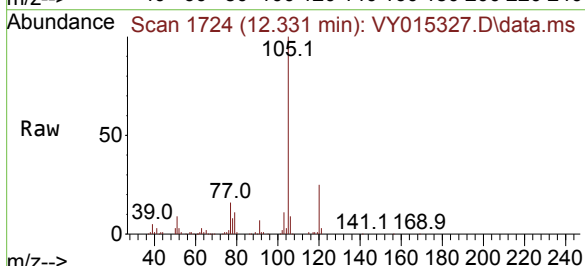
Acq: 24 Aug 2023 21:11

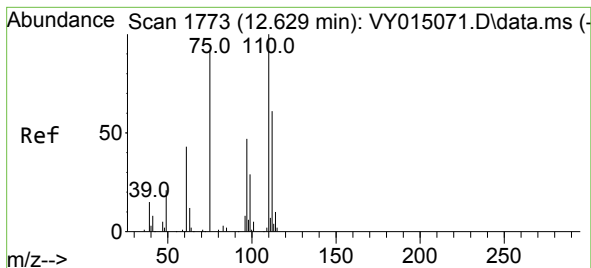
Tgt Ion:105 Resp: 46435

Ion Ratio Lower Upper

105 100

120 26.1 13.3 39.9

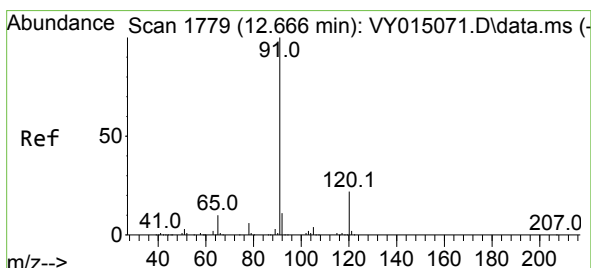
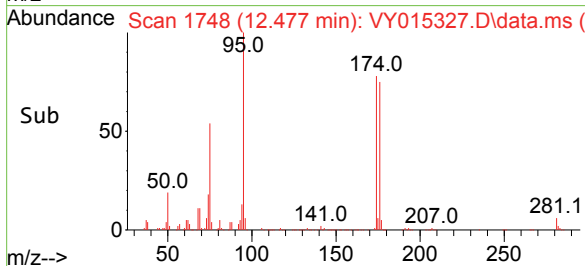
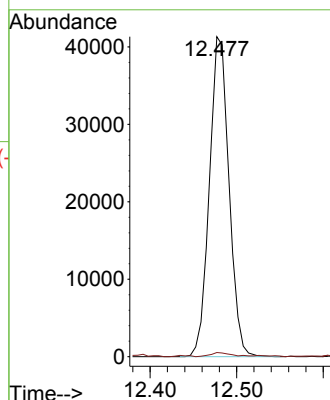
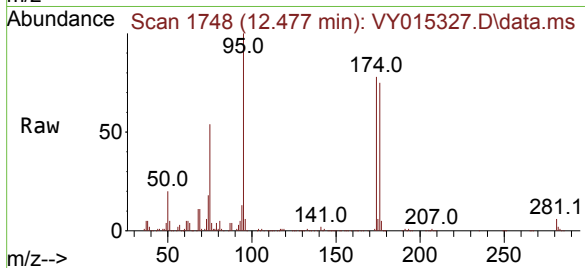




#76
1,2,3-Trichloropropane
Concen: 42.313 ug/l
RT: 12.477 min Scan# 1773
Delta R.T. -0.152 min
Lab File: VY015327.D
Acq: 24 Aug 2023 21:11

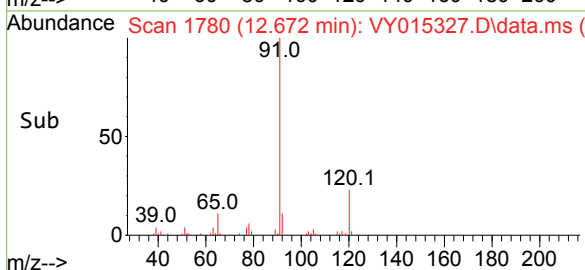
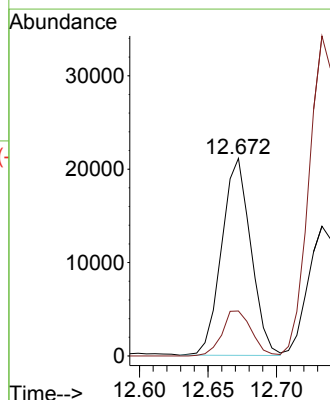
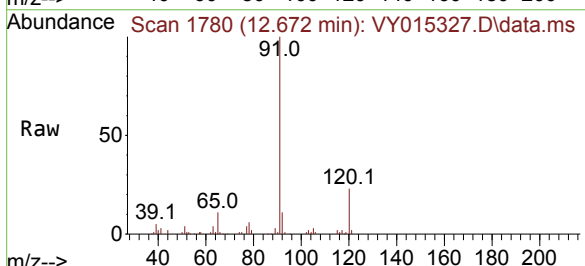
Instrument :
MSVOA_Y
ClientSampleId :

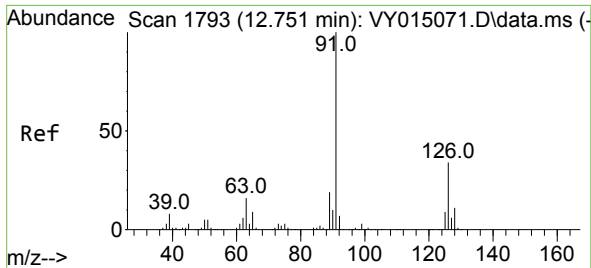
Tgt Ion: 75 Resp: 64929
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0



#78
n-propylbenzene
Concen: 3.245 ug/l
RT: 12.672 min Scan# 1780
Delta R.T. 0.006 min
Lab File: VY015327.D
Acq: 24 Aug 2023 21:11

Tgt Ion: 91 Resp: 31294
Ion Ratio Lower Upper
91 100
120 23.2 11.5 34.4

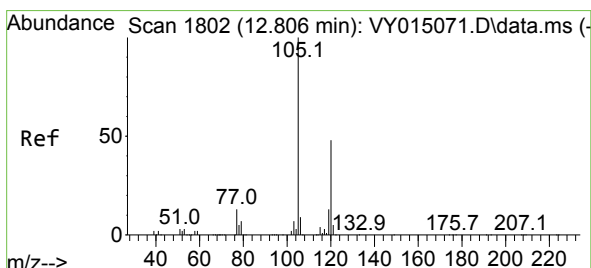
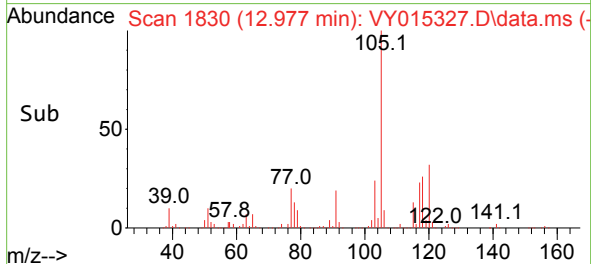
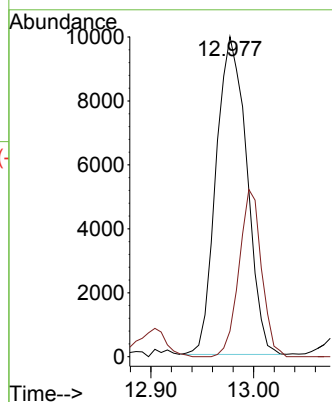
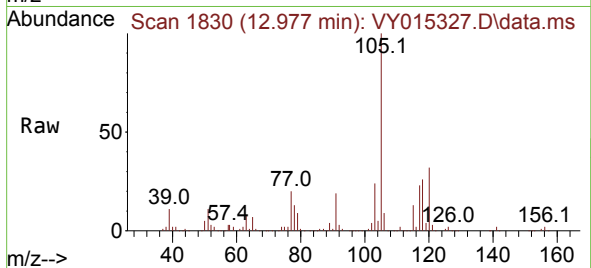




#79
2-Chlorotoluene
Concen: 3.708 ug/l
RT: 12.977 min Scan# 1830
Delta R.T. 0.226 min
Lab File: VY015327.D
Acq: 24 Aug 2023 21:11

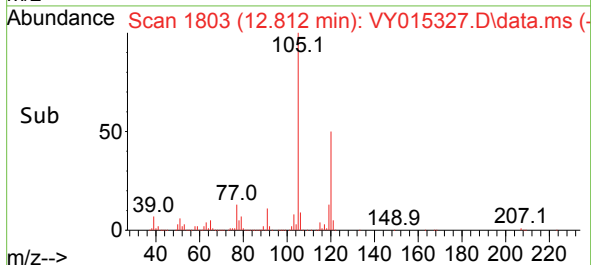
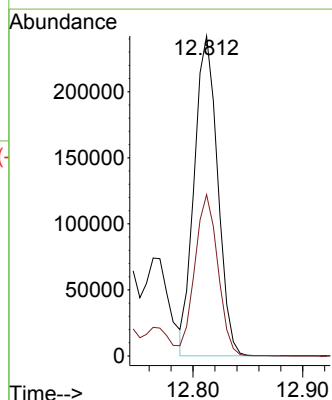
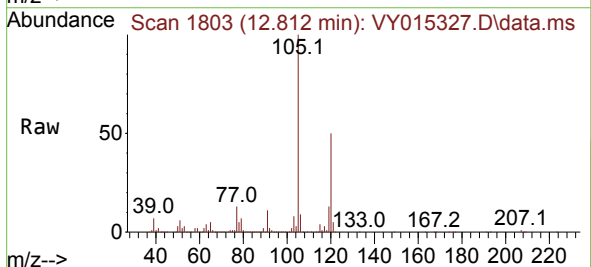
Instrument :
MSVOA_Y
ClientSampleId :

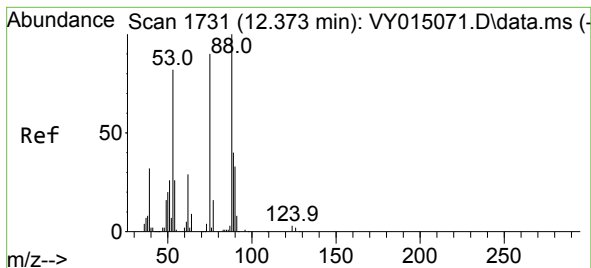
Tgt Ion: 91 Resp: 20632
Ion Ratio Lower Upper
91 100
126 38.7 17.3 51.7



#80
1,3,5-Trimethylbenzene
Concen: 52.900 ug/l
RT: 12.812 min Scan# 1803
Delta R.T. 0.000 min
Lab File: VY015327.D
Acq: 24 Aug 2023 21:11

Tgt Ion: 105 Resp: 358133
Ion Ratio Lower Upper
105 100
120 49.7 23.9 71.7

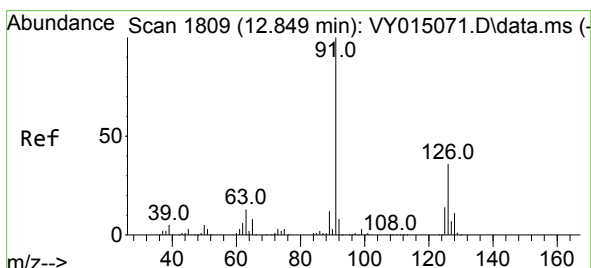
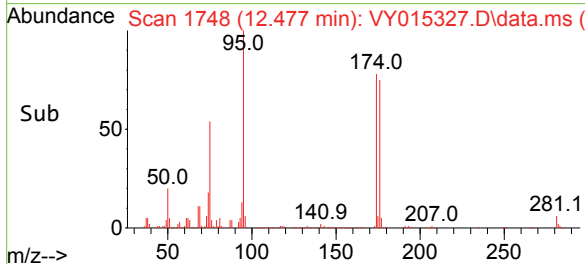
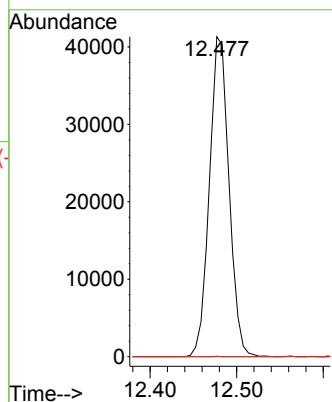
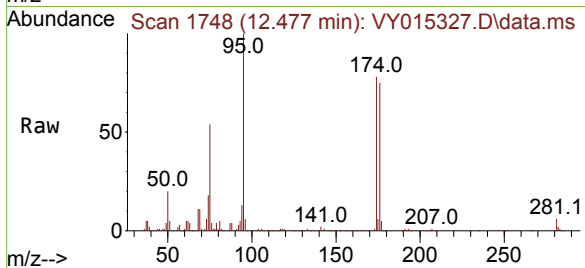




#81
trans-1,4-Dichloro-2-butene
Concen: 92.940 ug/l
RT: 12.477 min Scan# 1731
Delta R.T. 0.104 min
Lab File: VY015327.D
Acq: 24 Aug 2023 21:11

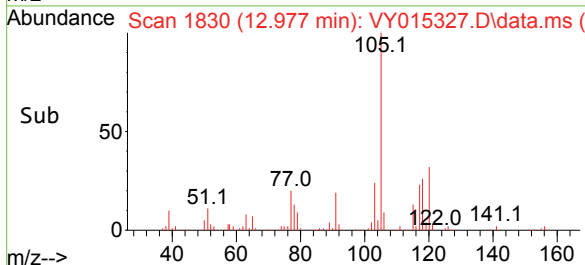
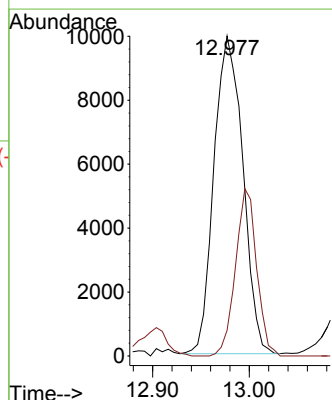
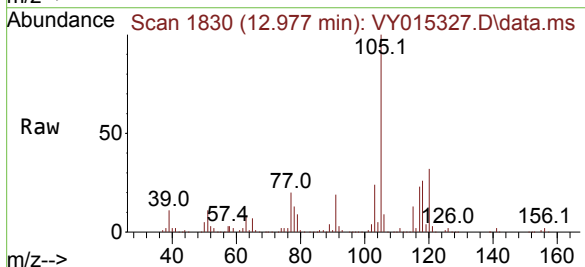
Instrument :
MSVOA_Y
ClientSampleId :

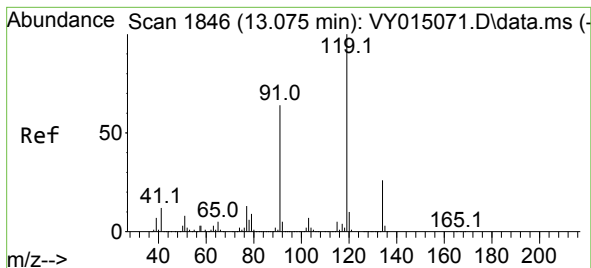
Tgt Ion: 75 Resp: 64929
Ion Ratio Lower Upper
75 100
53 0.0 77.8 116.8#
89 0.0 37.4 56.0#



#82
4-Chlorotoluene
Concen: 3.589 ug/l
RT: 12.977 min Scan# 1830
Delta R.T. 0.122 min
Lab File: VY015327.D
Acq: 24 Aug 2023 21:11

Tgt Ion: 91 Resp: 20631
Ion Ratio Lower Upper
91 100
126 38.7 17.2 51.6





#83

tert-Butylbenzene

Concen: 16.150 ug/l

RT: 13.117 min Scan# 1853

Delta R.T. 0.043 min

Lab File: VY015327.D

Acq: 24 Aug 2023 21:11

Instrument :

MSVOA_Y

ClientSampleId :

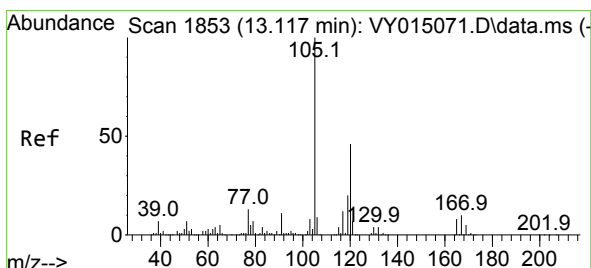
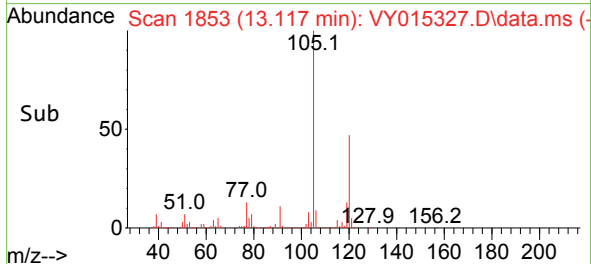
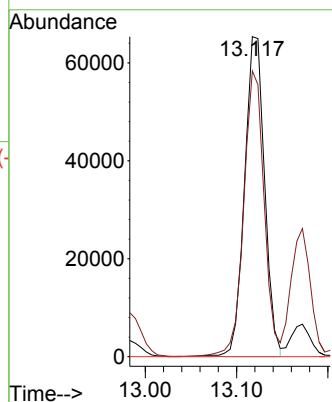
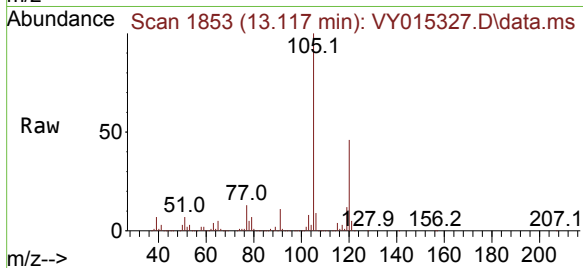
Tgt Ion:119 Resp: 100008

Ion Ratio Lower Upper

119 100

91 90.3 32.9 98.6

134 0.0 13.0 38.9#



#84

1,2,4-Trimethylbenzene

Concen: 119.134 ug/l

RT: 13.117 min Scan# 1853

Delta R.T. 0.000 min

Lab File: VY015327.D

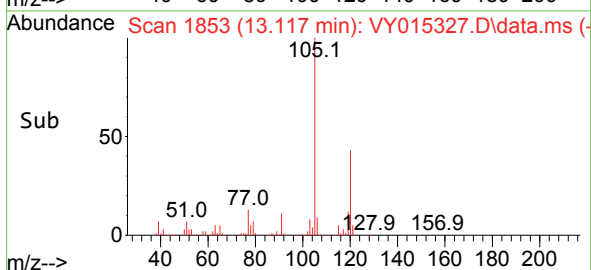
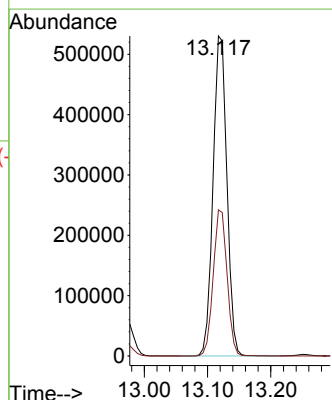
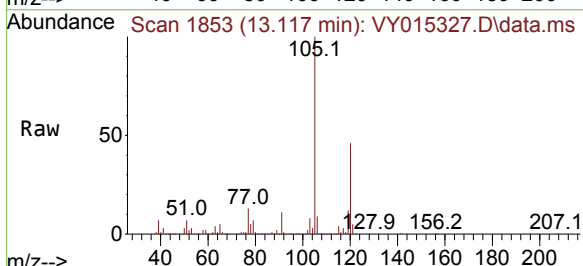
Acq: 24 Aug 2023 21:11

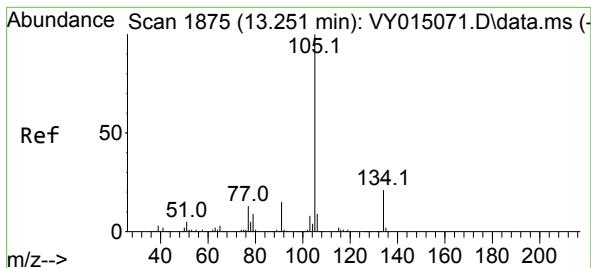
Tgt Ion:105 Resp: 805936

Ion Ratio Lower Upper

105 100

120 45.7 22.2 66.6





#85

sec-Butylbenzene

Concen: 88.827 ug/l

RT: 13.117 min Scan# 1853

Delta R.T. -0.134 min

Lab File: VY015327.D

Acq: 24 Aug 2023 21:11

Instrument :

MSVOA_Y

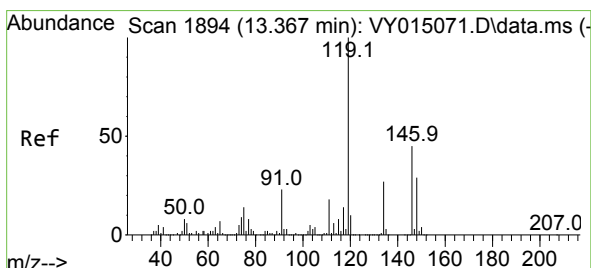
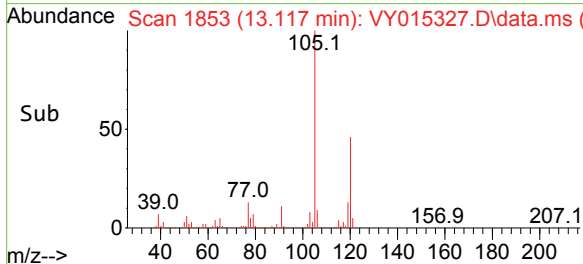
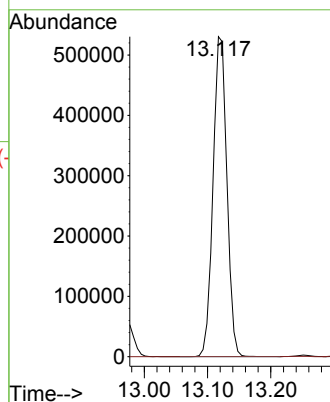
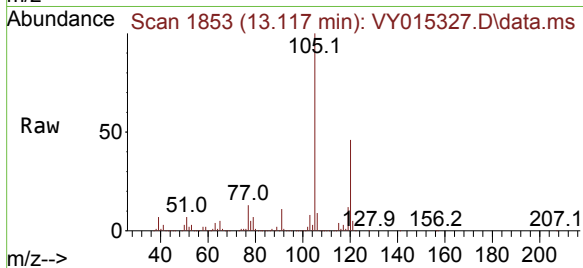
ClientSampleId :

Tgt Ion:105 Resp: 805936

Ion Ratio Lower Upper

105 100

134 0.0 10.2 30.6#



#86

p-Isopropyltoluene

Concen: 2.959 ug/l

RT: 13.367 min Scan# 1894

Delta R.T. 0.000 min

Lab File: VY015327.D

Acq: 24 Aug 2023 21:11

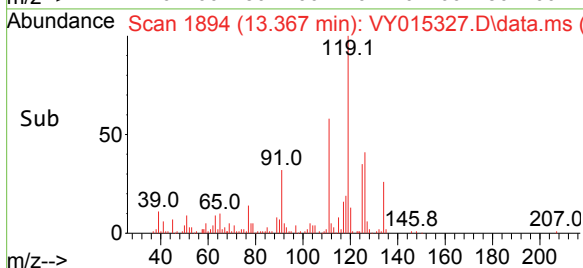
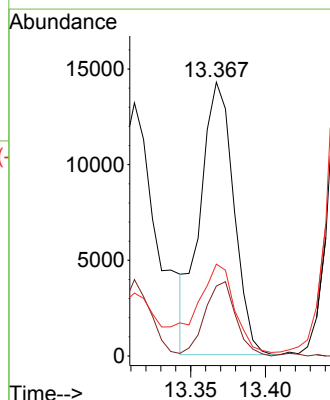
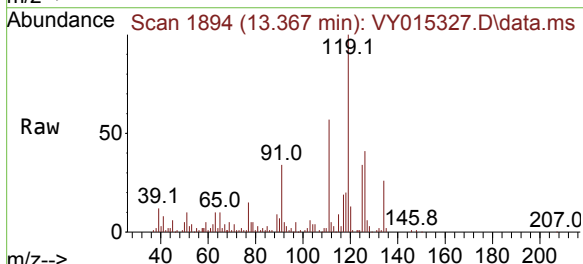
Tgt Ion:119 Resp: 22260

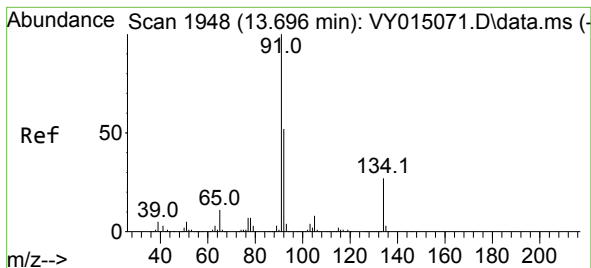
Ion Ratio Lower Upper

119 100

134 25.1 13.3 39.8

91 35.8 12.4 37.4





#89

n-Butylbenzene

Concen: 1.285 ug/l

RT: 13.696 min Scan# 1948

Delta R.T. 0.000 min

Lab File: VY015327.D

Acq: 24 Aug 2023 21:11

Instrument :

MSVOA_Y

ClientSampleId :

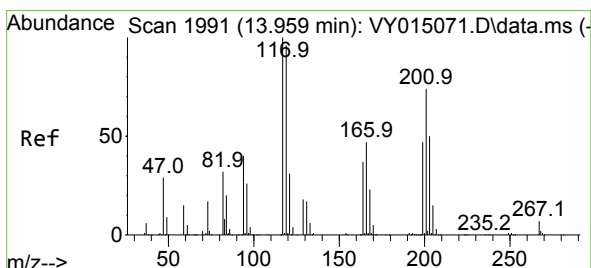
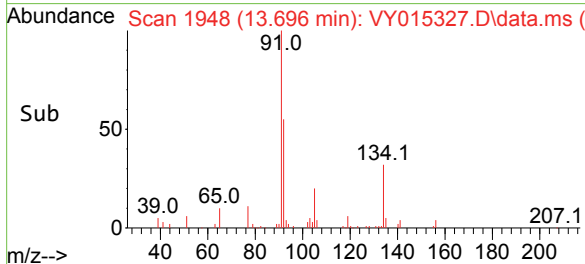
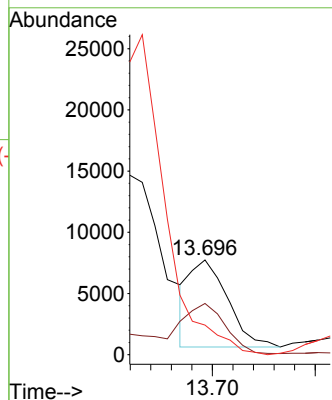
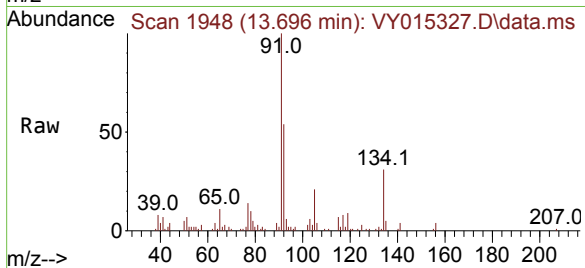
Tgt Ion: 91 Resp: 9111

Ion Ratio Lower Upper

91 100

92 64.1 25.4 76.0

134 0.0 12.6 37.6#



#90

Hexachloroethane

Concen: 5.411 ug/l

RT: 13.971 min Scan# 1993

Delta R.T. 0.012 min

Lab File: VY015327.D

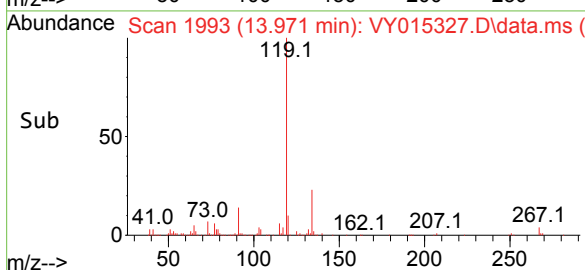
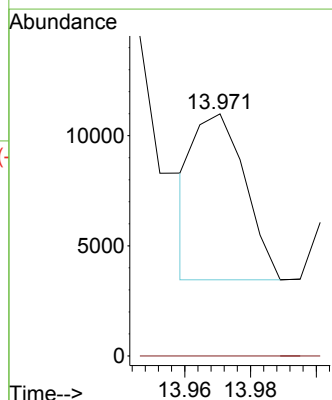
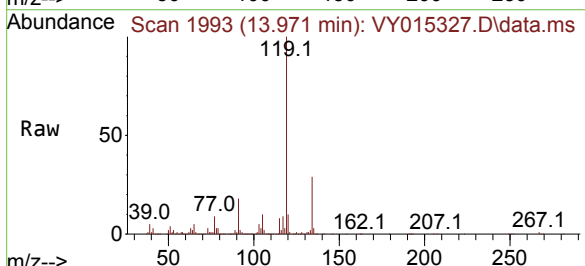
Acq: 24 Aug 2023 21:11

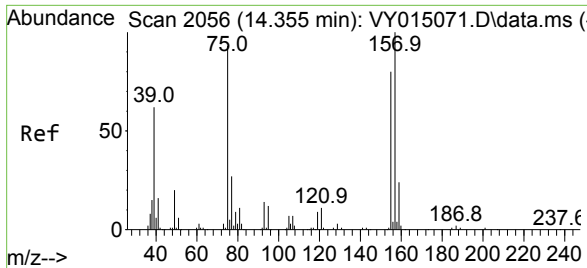
Tgt Ion: 117 Resp: 8075

Ion Ratio Lower Upper

117 100

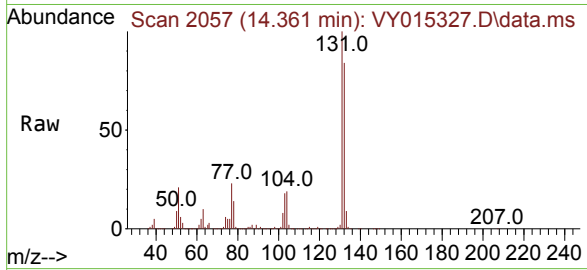
201 0.0 41.6 124.8#





#92
1,2-Dibromo-3-Chloropropane
Concen: 120.597 ug/l
RT: 14.361 min Scan# 2057
Delta R.T. 0.006 min
Lab File: VY015327.D
Acq: 24 Aug 2023 21:11

Instrument :
MSVOA_Y
ClientSampleId :



Tgt Ion: 75 Resp: 49416
Ion Ratio Lower Upper
75 100
155 0.0 41.5 124.6#
157 0.0 51.8 155.5#

