

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY010923\
 Data File : VY012115.D
 Acq On : 09 Jan 2023 16:57
 Operator : KP/MD
 Sample : 01064-07
 Misc : 1.24g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 S-14-02

Quant Time: Jan 10 01:48:41 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y010623S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jan 07 01:46:48 2023
 Response via : Initial Calibration

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

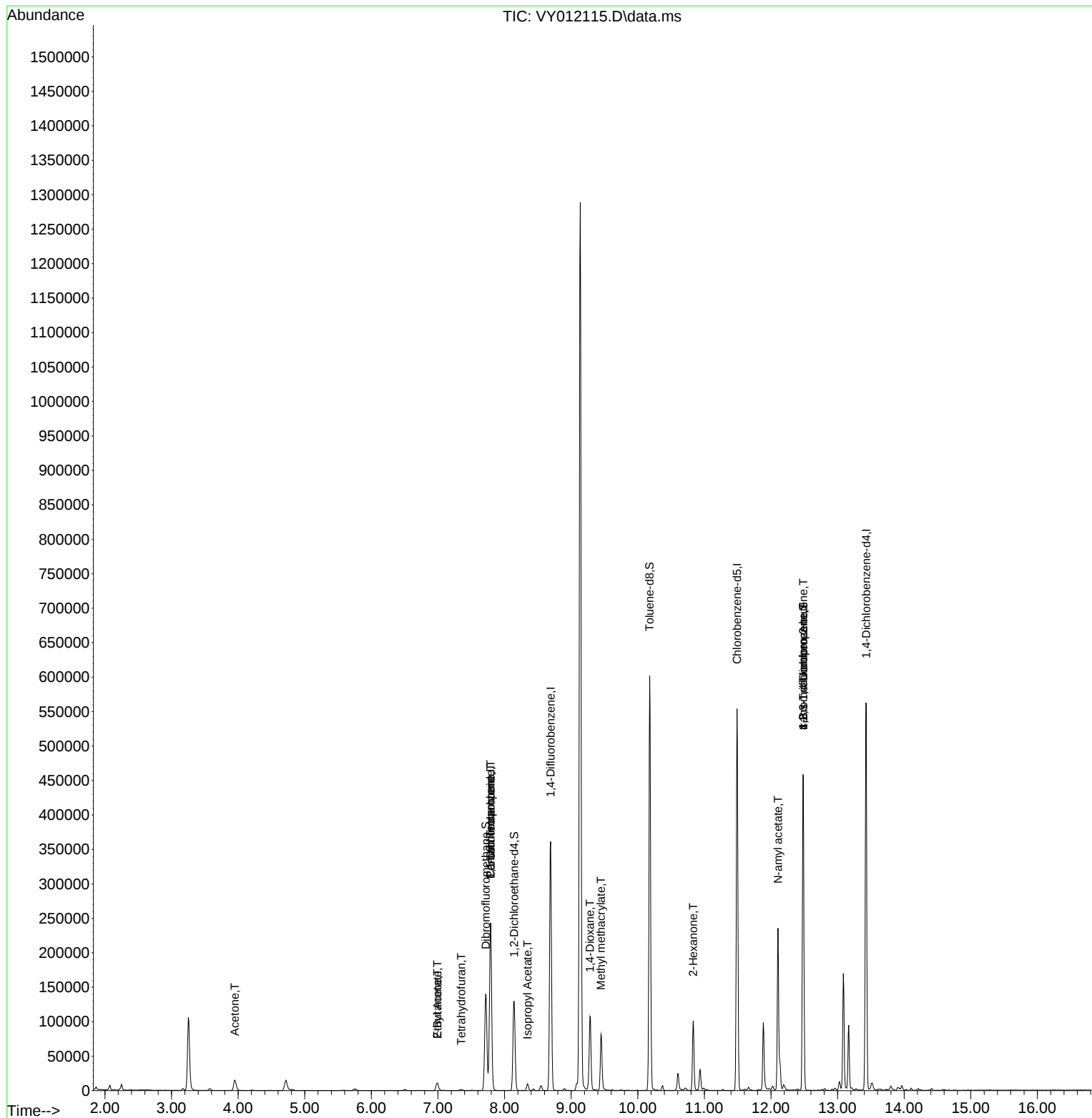
Internal Standards						
1) Pentafluorobenzene	7.789	168	188488	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	319299	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	305604	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	146361	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.143	65	111345	52.572	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 105.140%	
35) Dibromofluoromethane	7.716	113	96953	46.197	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 92.400%	
50) Toluene-d8	10.179	98	392946	47.437	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 94.880%	
62) 4-Bromofluorobenzene	12.483	95	132754	45.849	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 91.700%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.900	85	53	Below Cal	#	41
3) Chloromethane	2.125	50	93	Below Cal	#	41
5) Bromomethane	2.668	94	94	Below Cal		89
11) Tert butyl alcohol	4.948	59	149	Below Cal	#	74
16) Acetone	3.948	43	26831	53.853	ug/l	96
17) Carbon Disulfide	4.198	76	19	Below Cal	#	75
20) Methylene Chloride	4.723	84	11123	Below Cal	#	93
25) 2-Butanone	6.990	43	17965	27.330	ug/l	# 89
29) Tetrahydrofuran	7.350	42	720	1.876	ug/l	# 75
31) Cyclohexane	7.789	56	3723	Below Cal	#	7
36) 1,1-Dichloropropene	7.789	75	12942	4.065	ug/l	# 51
37) Ethyl Acetate	6.990	43	17965	10.538	ug/l	# 68
38) Carbon Tetrachloride	7.789	117	19124	4.732	ug/l	# 17
43) Isopropyl Acetate	8.344	43	3152	1.103	ug/l	# 51
48) Methyl methacrylate	9.447	41	7750	6.056	ug/l	# 31
49) 1,4-Dioxane	9.283	88	53	2.941	ug/l	# 1
59) 2-Hexanone	10.831	43	55365	51.864	ug/l	96
74) N-amyl acetate	12.105	43	122194	51.108	ug/l	# 45
76) 1,2,3-Trichloropropane	12.483	75	72423	43.337	ug/l	# 100
81) trans-1,4-Dichloro-2-b...	12.483	75	72423	96.245	ug/l	# 13

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

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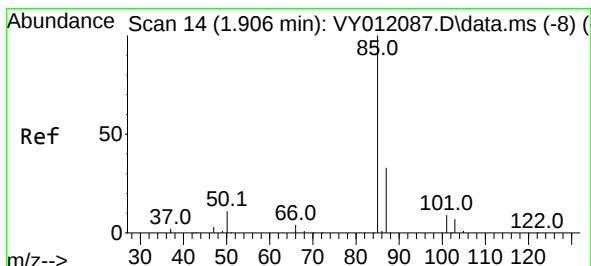
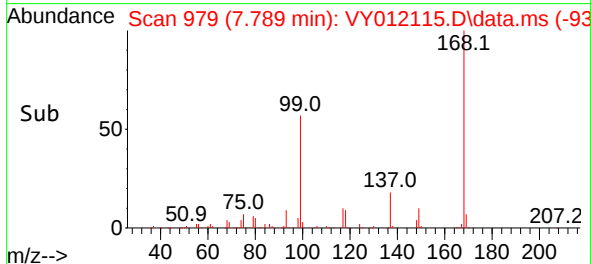
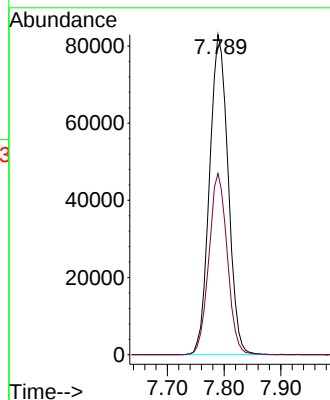
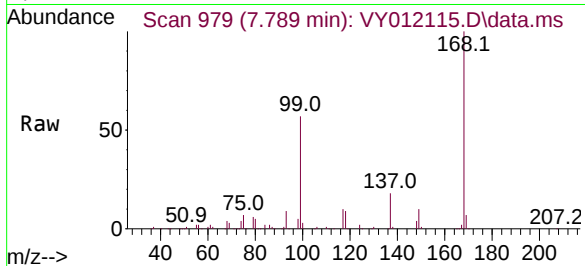




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY012115.D
Acq: 09 Jan 2023 16:57

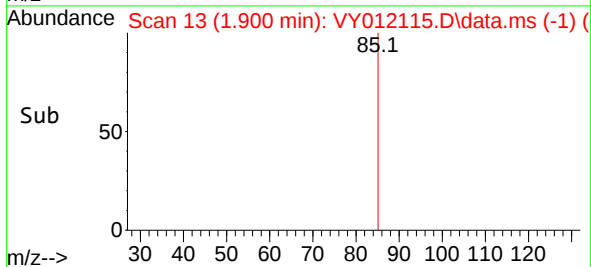
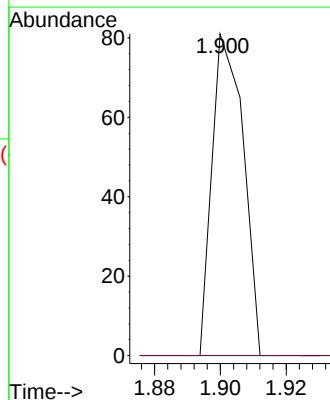
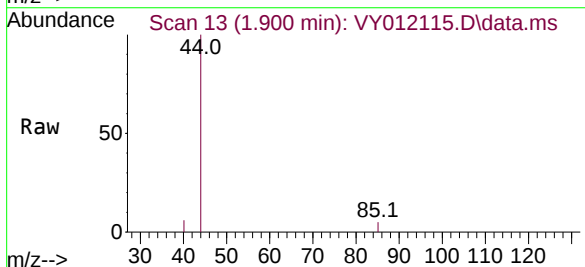
Instrument :
MSVOA_Y
ClientSampleId :
S-14-02

Tgt Ion:168 Resp: 188488
Ion Ratio Lower Upper
168 100
99 56.6 44.0 66.0

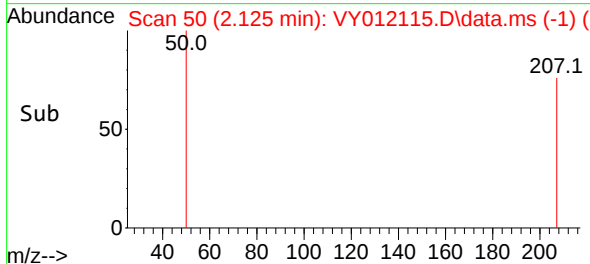
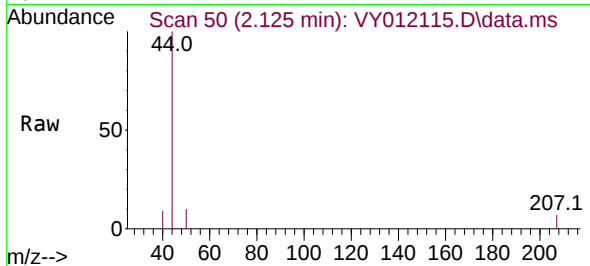
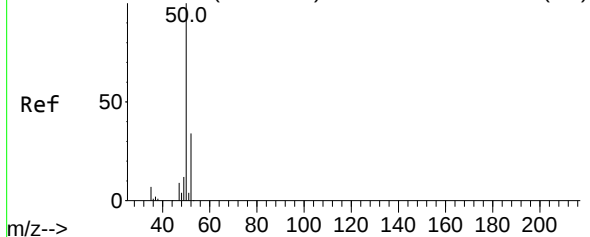


#2
Dichlorodifluoromethane
Concen: Below Cal
RT: 1.900 min Scan# 13
Delta R.T. -0.006 min
Lab File: VY012115.D
Acq: 09 Jan 2023 16:57

Tgt Ion: 85 Resp: 53
Ion Ratio Lower Upper
85 100
87 0.0 16.8 50.4#



Abundance Scan 48 (2.113 min): VY012087.D\data.ms (-38)



#3

Chloromethane

Concen: Below Cal

RT: 2.125 min Scan# 50

Delta R.T. 0.012 min

Lab File: VY012115.D

Acq: 09 Jan 2023 16:57

Instrument :

MSVOA_Y

ClientSampleId :

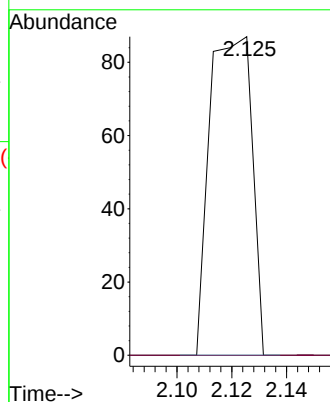
S-14-02

Tgt Ion: 50 Resp: 93

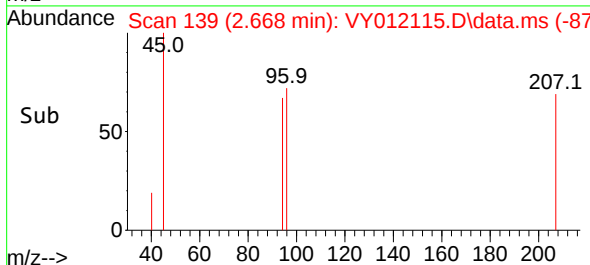
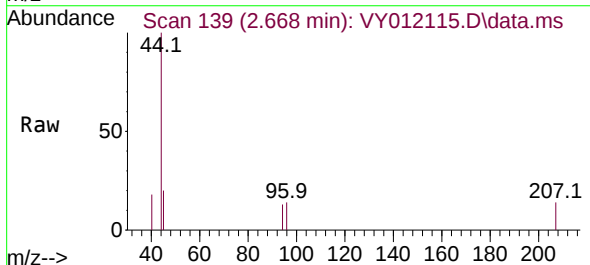
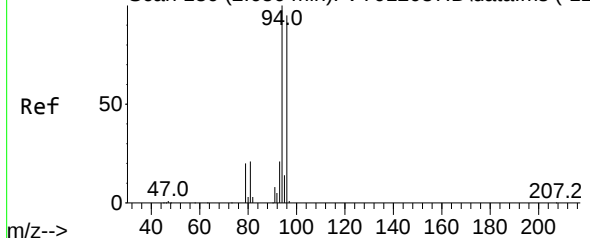
Ion Ratio Lower Upper

50 100

52 0.0 26.8 40.2#



Abundance Scan 136 (2.650 min): VY012087.D\data.ms (-12)



#5

Bromomethane

Concen: Below Cal

RT: 2.668 min Scan# 139

Delta R.T. 0.018 min

Lab File: VY012115.D

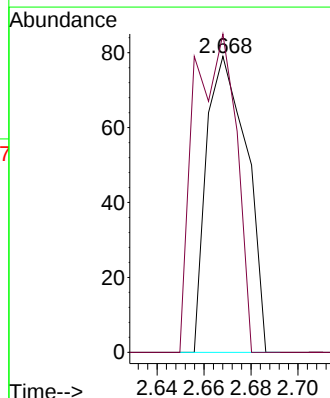
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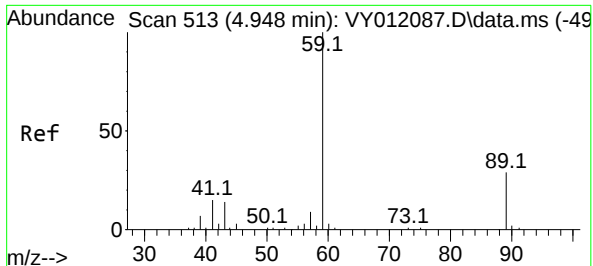
Tgt Ion: 94 Resp: 94

Ion Ratio Lower Upper

94 100

96 107.6 77.4 116.2

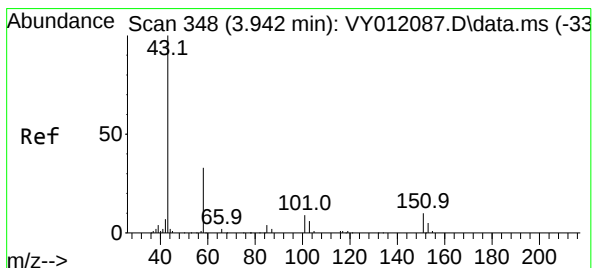
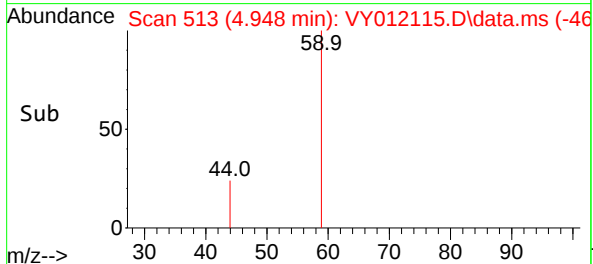
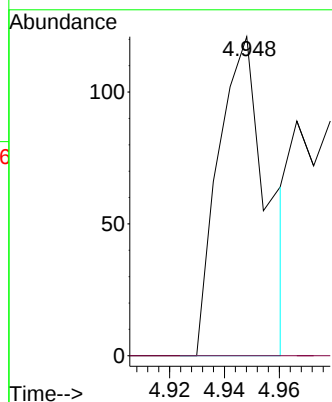
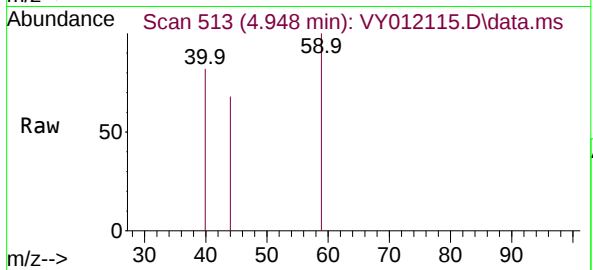




#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.948 min Scan# 513
Delta R.T. 0.000 min
Lab File: VY012115.D
Acq: 09 Jan 2023 16:57

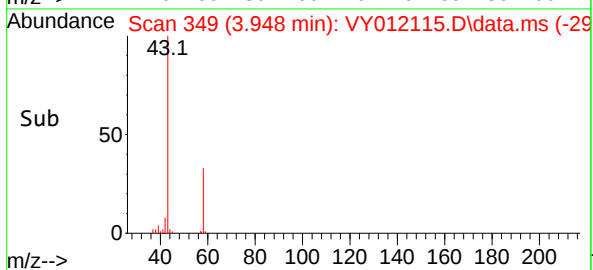
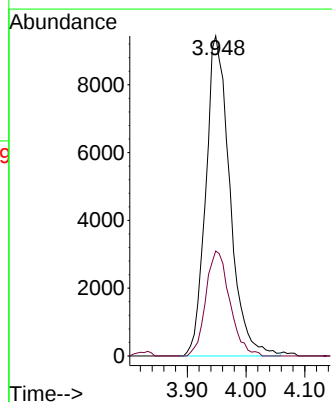
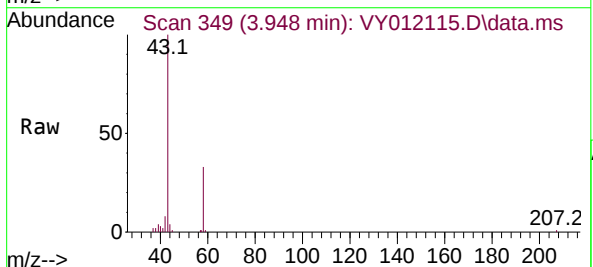
Instrument :
MSVOA_Y
ClientSampleId :
S-14-02

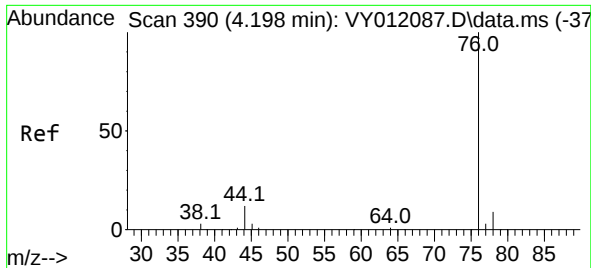
Tgt Ion: 59 Resp: 149
Ion Ratio Lower Upper
59 100
57 0.0 7.4 11.2#



#16
Acetone
Concen: 53.853 ug/l
RT: 3.948 min Scan# 349
Delta R.T. 0.006 min
Lab File: VY012115.D
Acq: 09 Jan 2023 16:57

Tgt Ion: 43 Resp: 26831
Ion Ratio Lower Upper
43 100
58 32.8 27.9 41.9

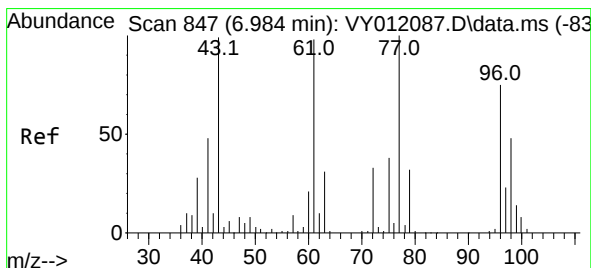
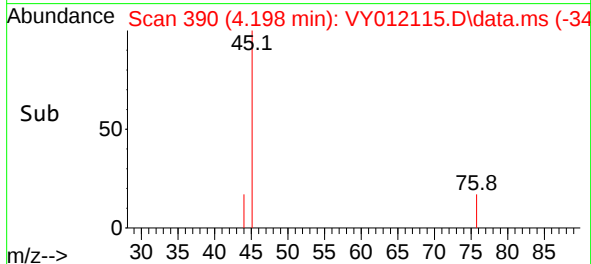
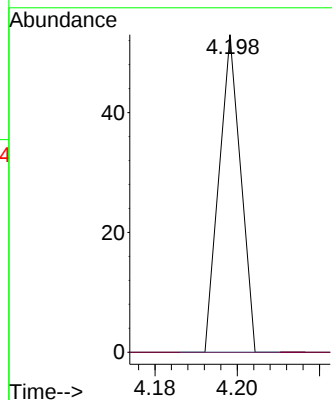
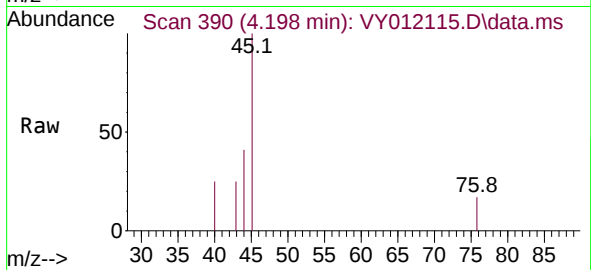




#17
Carbon Disulfide
Concen: Below Cal
RT: 4.198 min Scan# 390
Delta R.T. 0.000 min
Lab File: VY012115.D
Acq: 09 Jan 2023 16:57

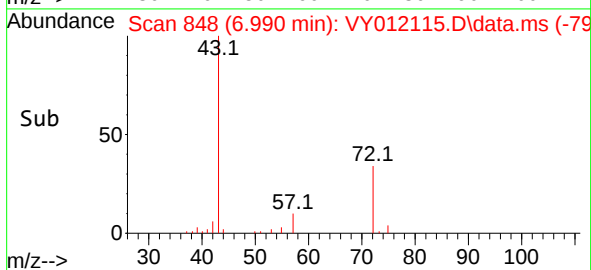
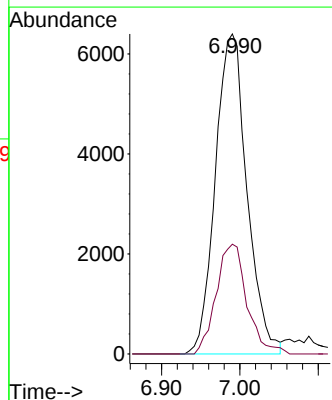
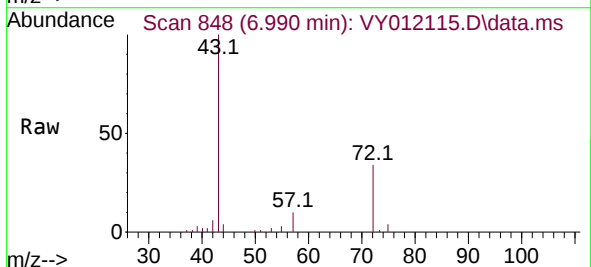
Instrument :
MSVOA_Y
ClientSampleId :
S-14-02

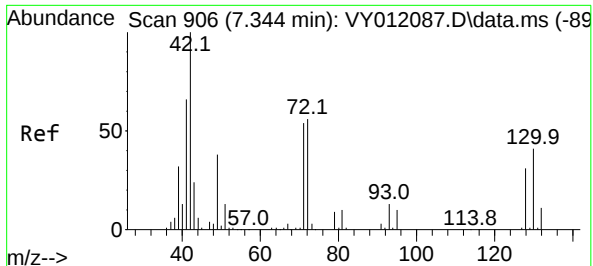
Tgt Ion: 76 Resp: 19
Ion Ratio Lower Upper
76 100
78 0.0 7.2 10.8#



#25
2-Butanone
Concen: 27.330 ug/l
RT: 6.990 min Scan# 848
Delta R.T. 0.006 min
Lab File: VY012115.D
Acq: 09 Jan 2023 16:57

Tgt Ion: 43 Resp: 17965
Ion Ratio Lower Upper
43 100
72 34.3 22.6 34.0#





#29

Tetrahydrofuran

Concen: 1.876 ug/l

RT: 7.350 min Scan# 906

Delta R.T. 0.006 min

Lab File: VY012115.D

Acq: 09 Jan 2023 16:57

Instrument :

MSVOA_Y

ClientSampleId :

S-14-02

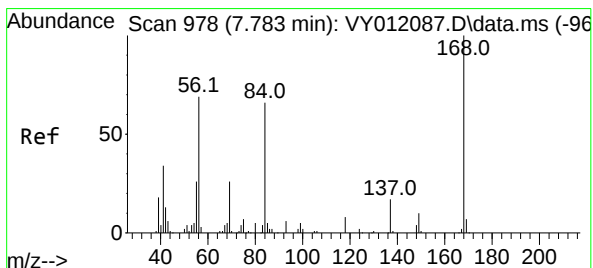
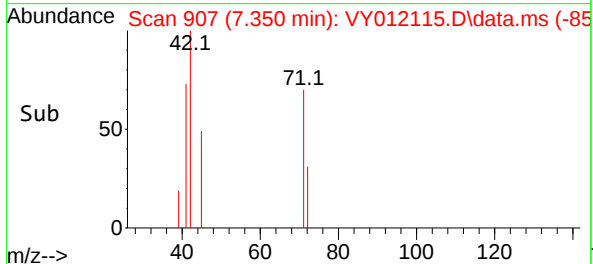
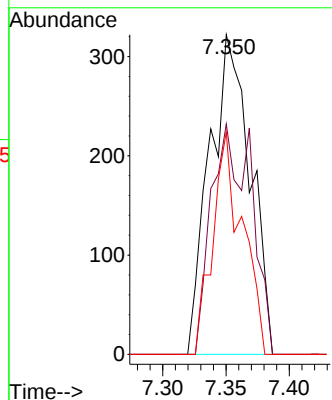
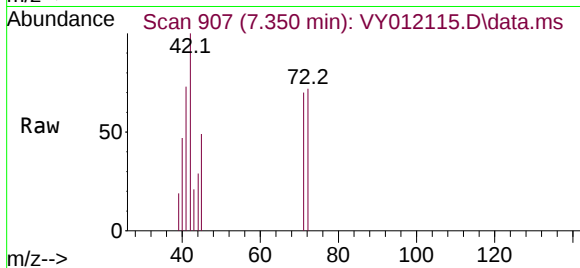
Tgt Ion: 42 Resp: 720

Ion Ratio Lower Upper

42 100

72 70.8 37.0 55.6#

71 51.0 34.9 52.3



#31

Cyclohexane

Concen: Below Cal

RT: 7.789 min Scan# 979

Delta R.T. 0.006 min

Lab File: VY012115.D

Acq: 09 Jan 2023 16:57

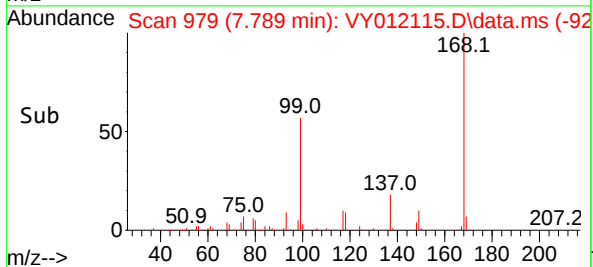
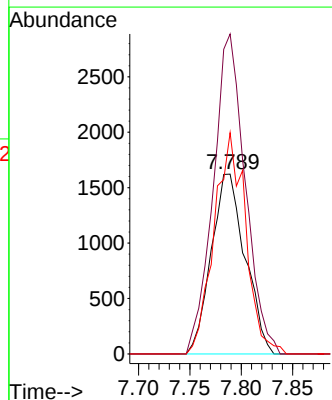
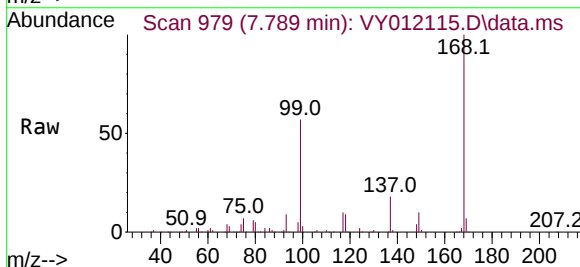
Tgt Ion: 56 Resp: 3723

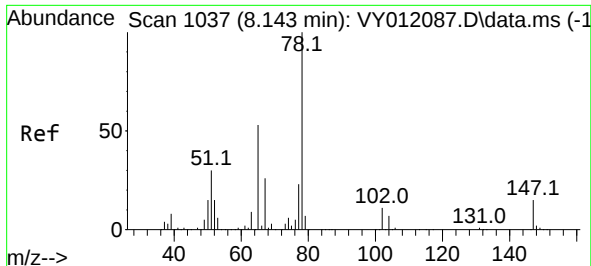
Ion Ratio Lower Upper

56 100

69 177.9 29.2 43.8#

84 123.0 72.6 108.8#





#33

1,2-Dichloroethane-d4

Concen: 52.572 ug/l

RT: 8.143 min Scan# 110

Delta R.T. -0.000 min

Lab File: VY012115.D

Acq: 09 Jan 2023 16:57

Instrument :

MSVOA_Y

ClientSampleId :

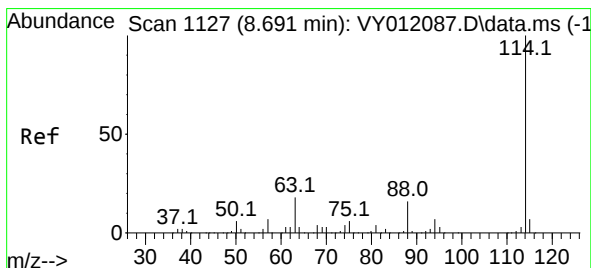
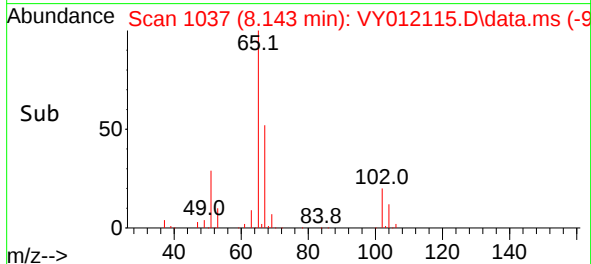
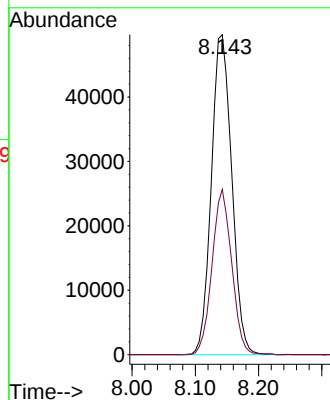
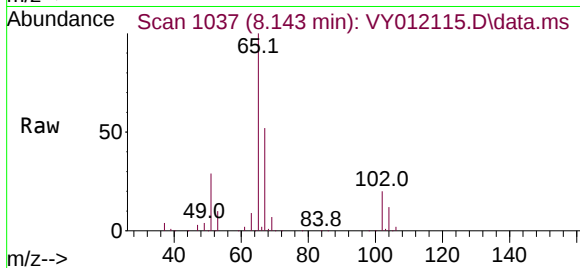
S-14-02

Tgt Ion: 65 Resp: 111345

Ion Ratio Lower Upper

65 100

67 49.7 0.0 103.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VY012115.D

Acq: 09 Jan 2023 16:57

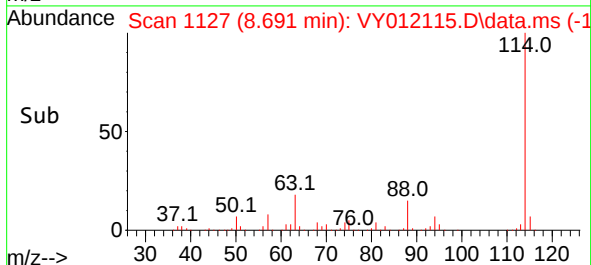
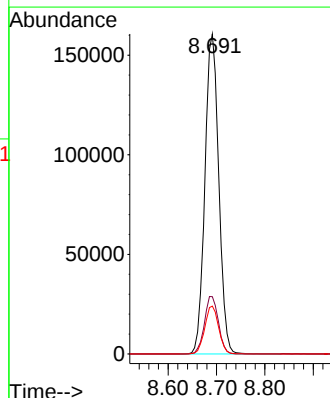
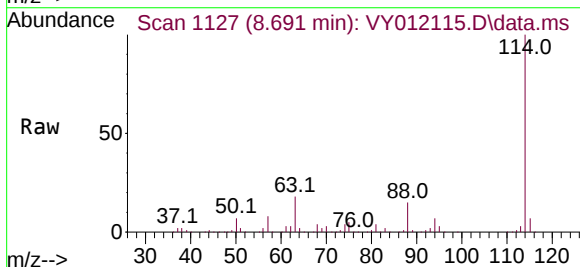
Tgt Ion:114 Resp: 319299

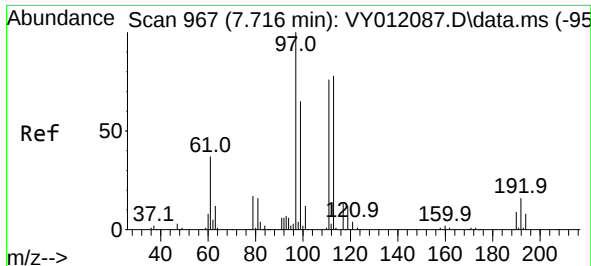
Ion Ratio Lower Upper

114 100

63 17.9 0.0 39.6

88 14.9 0.0 32.2

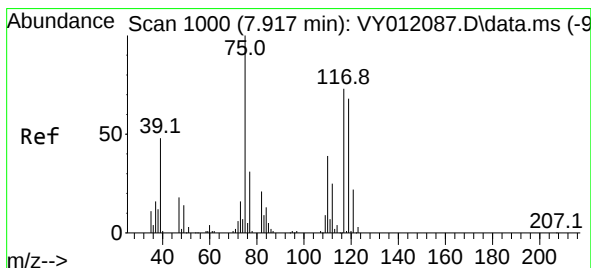
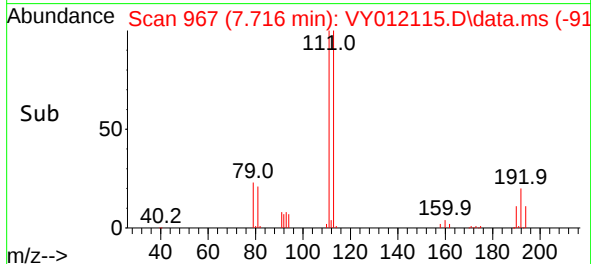
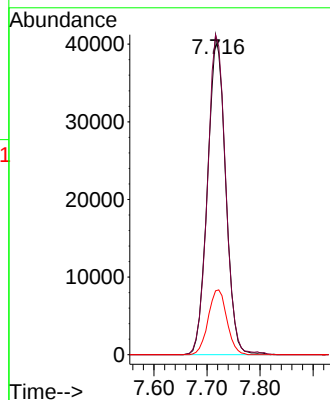
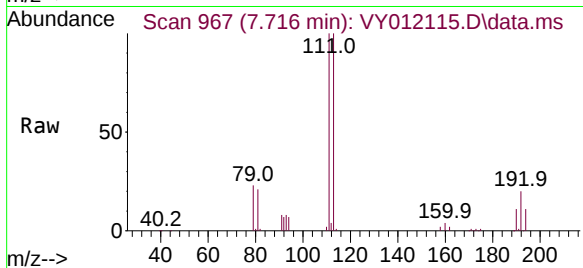




#35
Dibromofluoromethane
Concen: 46.197 ug/l
RT: 7.716 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY012115.D
Acq: 09 Jan 2023 16:57

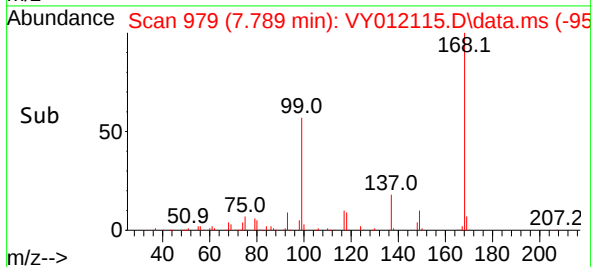
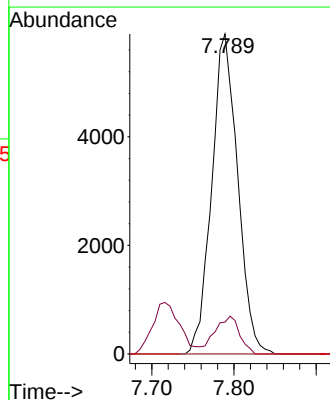
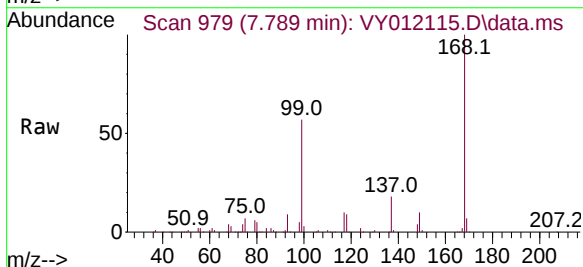
Instrument :
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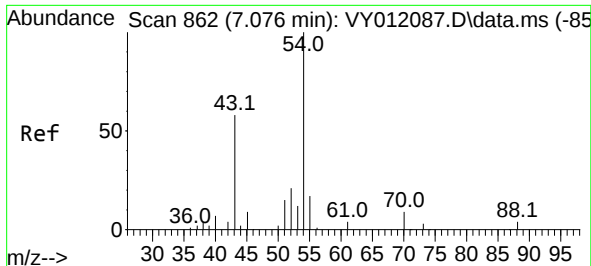
Tgt Ion:113 Resp: 96953
Ion Ratio Lower Upper
113 100
111 101.3 83.0 124.4
192 21.0 16.0 24.0



#36
1,1-Dichloropropene
Concen: 4.065 ug/l
RT: 7.789 min Scan# 979
Delta R.T. -0.128 min
Lab File: VY012115.D
Acq: 09 Jan 2023 16:57

Tgt Ion: 75 Resp: 12942
Ion Ratio Lower Upper
75 100
110 11.2 18.1 54.1#
77 0.0 25.1 37.7#





#37

Ethyl Acetate

Concen: 10.538 ug/l

RT: 6.990 min Scan# 84

Delta R.T. -0.086 min

Lab File: VY012115.D

Acq: 09 Jan 2023 16:57

Instrument :

MSVOA_Y

ClientSampleId :

S-14-02

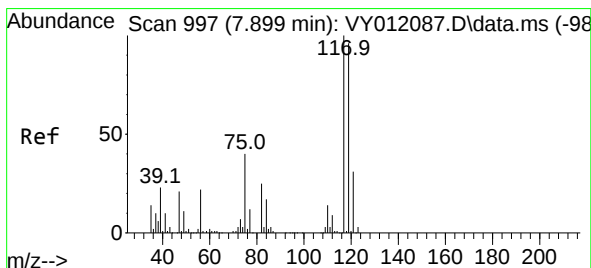
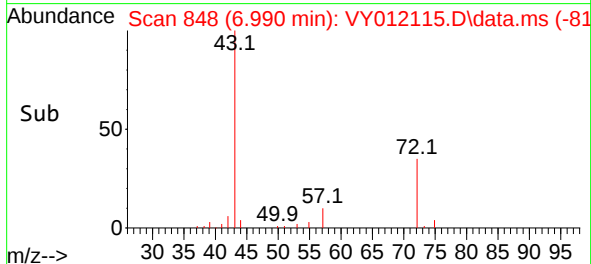
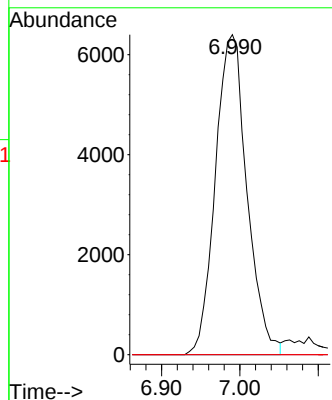
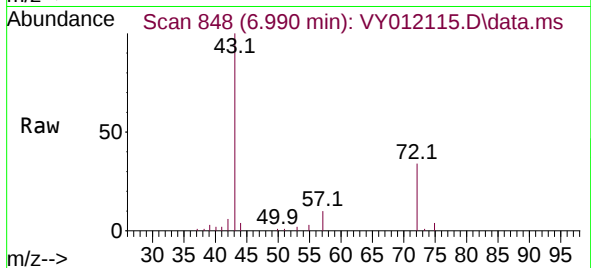
Tgt Ion: 43 Resp: 17965

Ion Ratio Lower Upper

43 100

61 0.0 11.3 16.9#

70 0.0 8.2 12.4#



#38

Carbon Tetrachloride

Concen: 4.732 ug/l

RT: 7.789 min Scan# 979

Delta R.T. -0.110 min

Lab File: VY012115.D

Acq: 09 Jan 2023 16:57

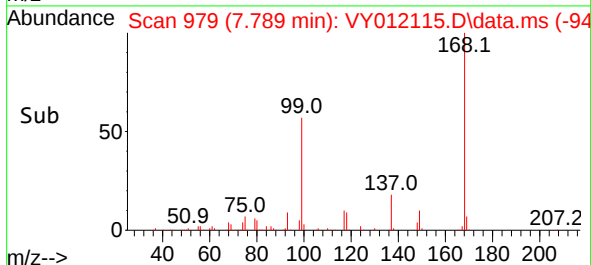
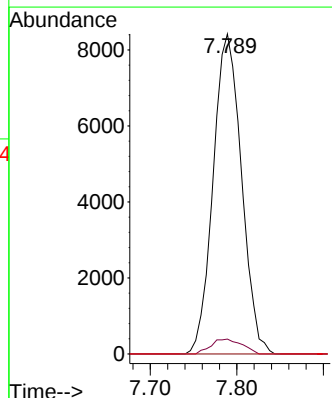
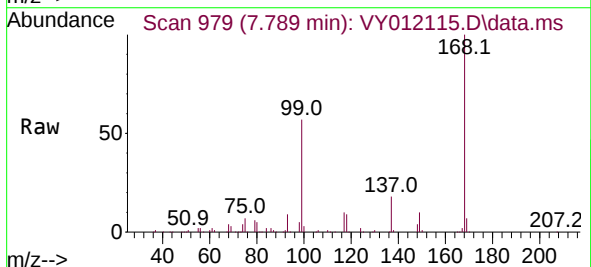
Tgt Ion: 117 Resp: 19124

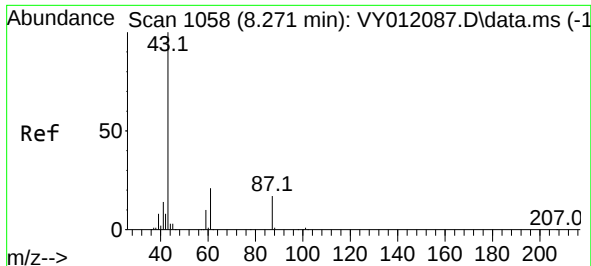
Ion Ratio Lower Upper

117 100

119 4.6 73.8 110.8#

121 0.0 25.2 37.8#

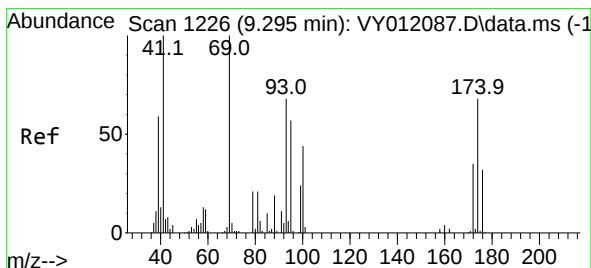
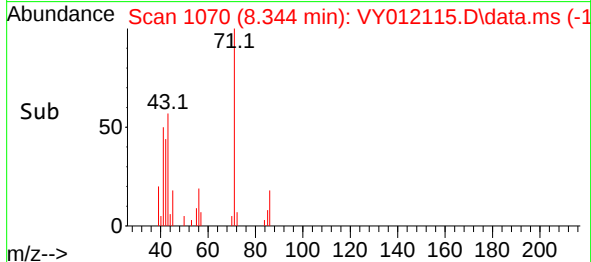
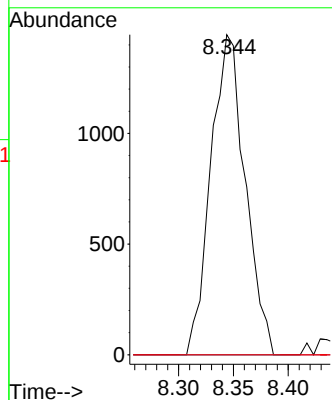
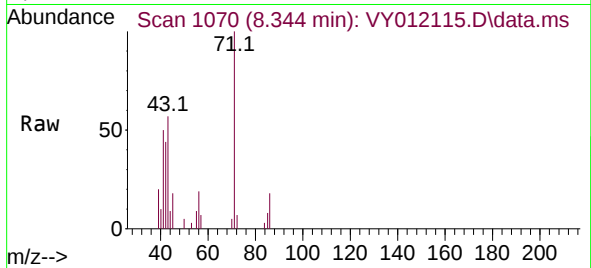




#43
Isopropyl Acetate
Concen: 1.103 ug/l
RT: 8.344 min Scan# 1070
Delta R.T. 0.073 min
Lab File: VY012115.D
Acq: 09 Jan 2023 16:57

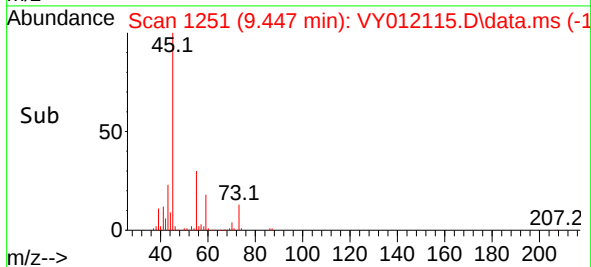
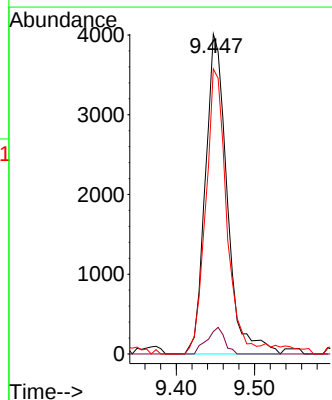
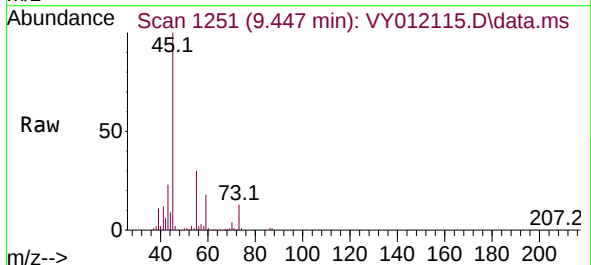
Instrument :
MSVOA_Y
ClientSampleId :
S-14-02

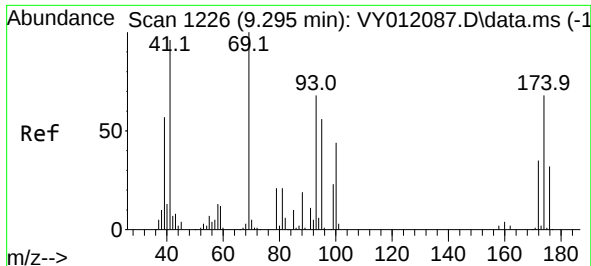
Tgt Ion: 43 Resp: 3152
Ion Ratio Lower Upper
43 100
61 0.0 24.4 36.6#
87 0.0 11.4 17.2#



#48
Methyl methacrylate
Concen: 6.056 ug/l
RT: 9.447 min Scan# 1251
Delta R.T. 0.152 min
Lab File: VY012115.D
Acq: 09 Jan 2023 16:57

Tgt Ion: 41 Resp: 7750
Ion Ratio Lower Upper
41 100
69 6.7 74.2 111.2#
39 85.4 46.3 69.5#





#49

1,4-Dioxane

Concen: 2.941 ug/l

RT: 9.283 min Scan# 1224

Delta R.T. -0.012 min

Lab File: VY012115.D

Acq: 09 Jan 2023 16:57

Instrument :

MSVOA_Y

ClientSampleId :

S-14-02

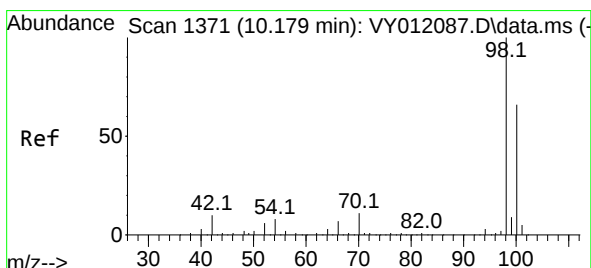
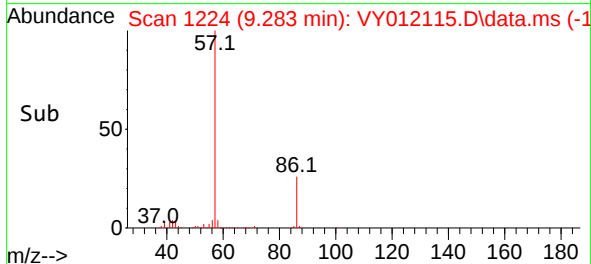
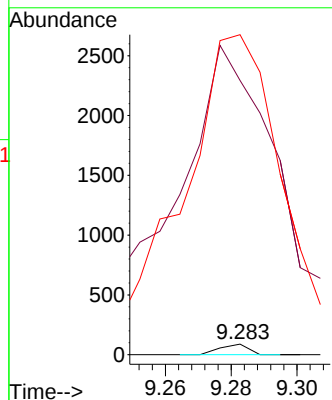
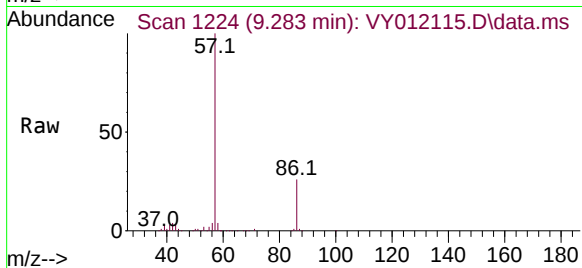
Tgt Ion: 88 Resp: 53

Ion Ratio Lower Upper

88 100

43 0.0 26.2 39.2#

58 10973.6 54.3 81.5#



#50

Toluene-d8

Concen: 47.437 ug/l

RT: 10.179 min Scan# 1371

Delta R.T. -0.000 min

Lab File: VY012115.D

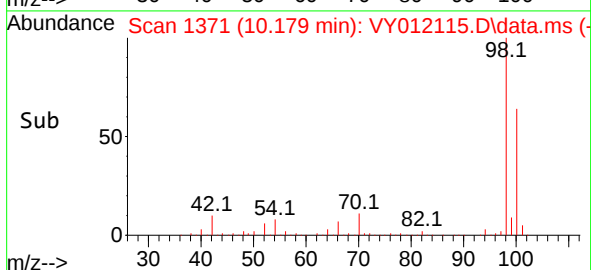
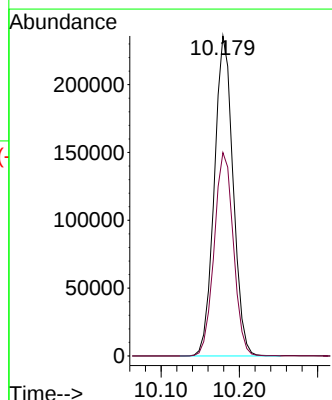
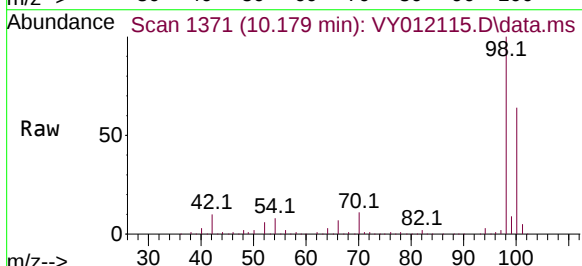
Acq: 09 Jan 2023 16:57

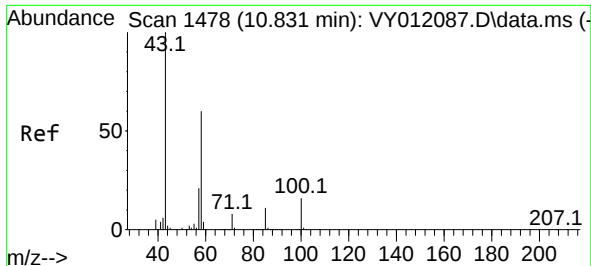
Tgt Ion: 98 Resp: 392946

Ion Ratio Lower Upper

98 100

100 64.9 51.9 77.9

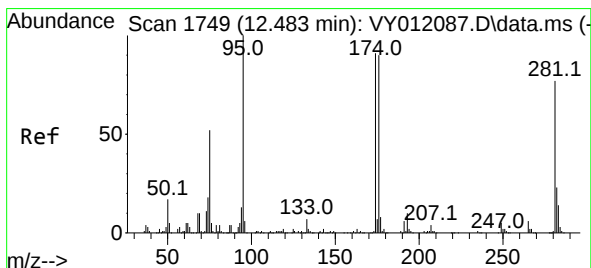
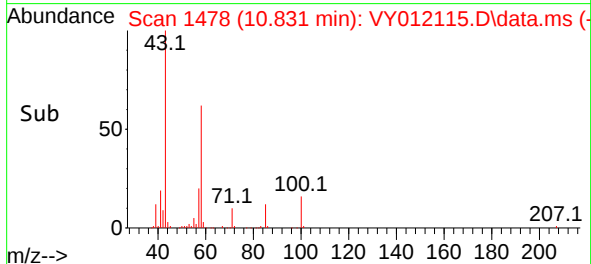
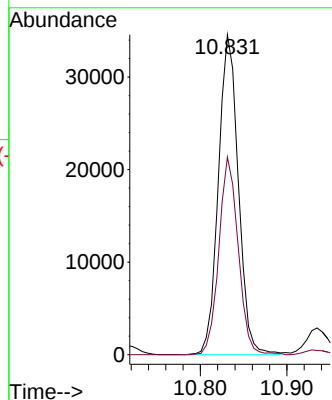
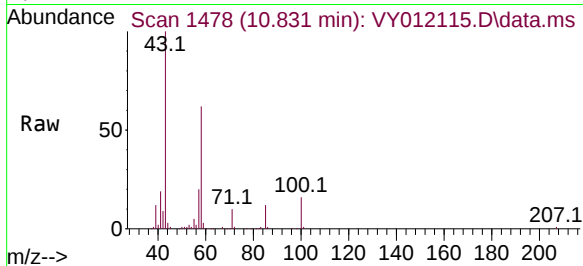




#59
2-Hexanone
Concen: 51.864 ug/l
RT: 10.831 min Scan# 1478
Delta R.T. 0.000 min
Lab File: VY012115.D
Acq: 09 Jan 2023 16:57

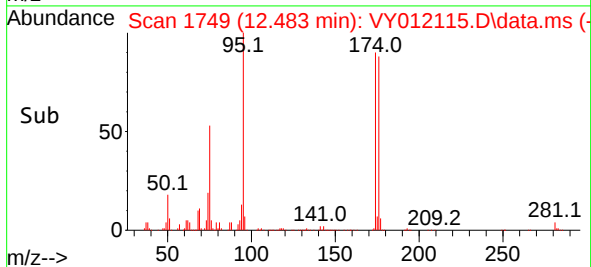
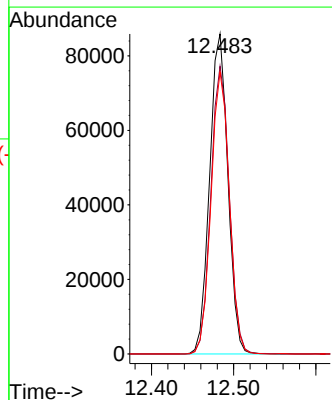
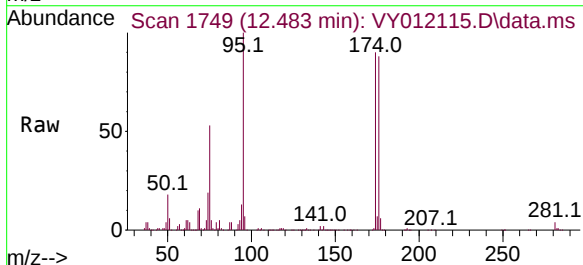
Instrument :
MSVOA_Y
ClientSampleId :
S-14-02

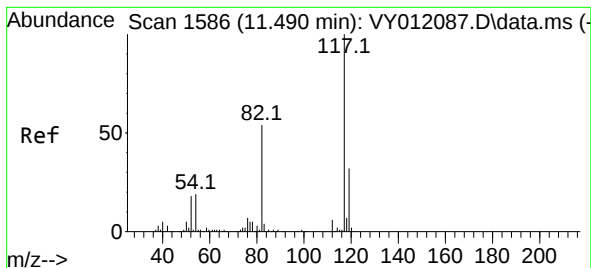
Tgt Ion: 43 Resp: 55365
Ion Ratio Lower Upper
43 100
58 59.7 28.4 85.2



#62
4-Bromofluorobenzene
Concen: 45.849 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VY012115.D
Acq: 09 Jan 2023 16:57

Tgt Ion: 95 Resp: 132754
Ion Ratio Lower Upper
95 100
174 90.9 0.0 172.0
176 88.1 0.0 167.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.490 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY012115.D

Acq: 09 Jan 2023 16:57

Instrument :

MSVOA_Y

ClientSampleId :

S-14-02

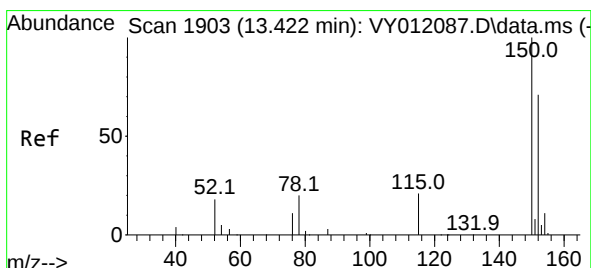
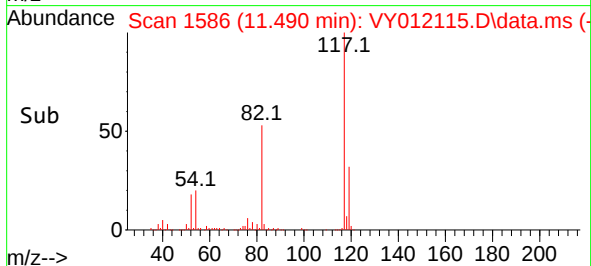
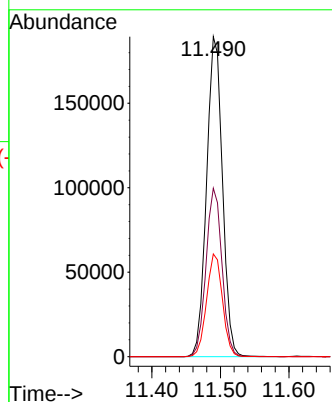
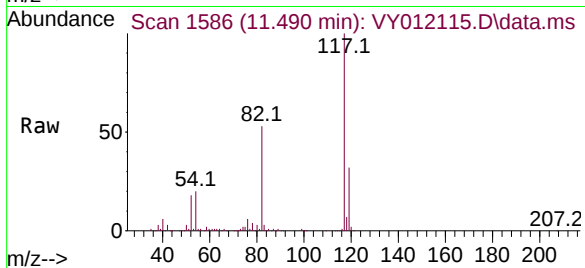
Tgt Ion:117 Resp: 305604

Ion Ratio Lower Upper

117 100

82 52.7 44.8 67.2

119 32.1 25.4 38.2



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.428 min Scan# 1904

Delta R.T. 0.006 min

Lab File: VY012115.D

Acq: 09 Jan 2023 16:57

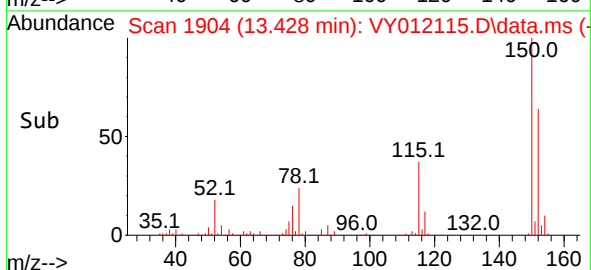
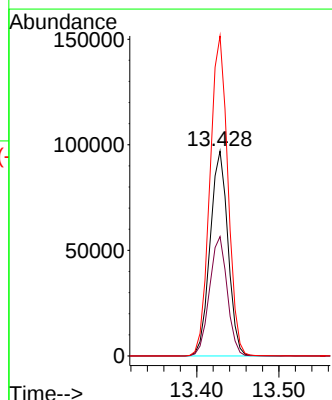
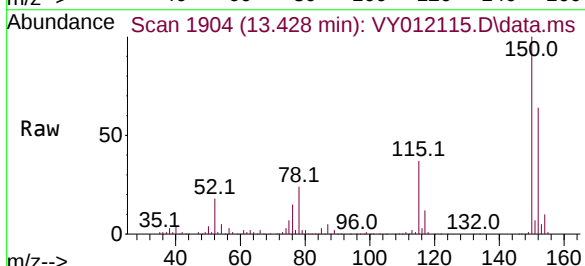
Tgt Ion:152 Resp: 146361

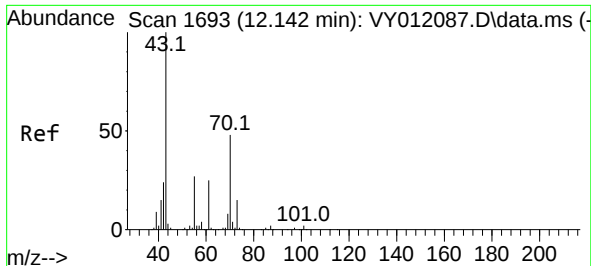
Ion Ratio Lower Upper

152 100

115 57.8 29.1 87.3

150 157.3 0.0 342.6

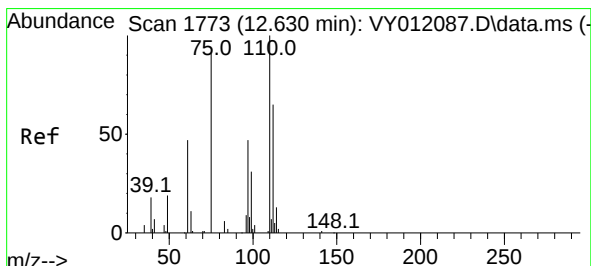
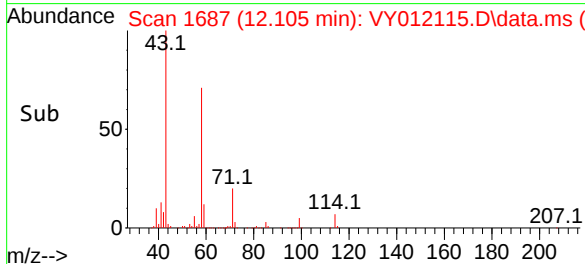
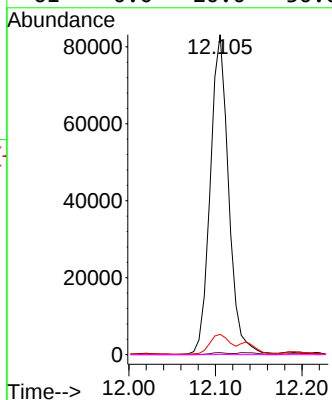
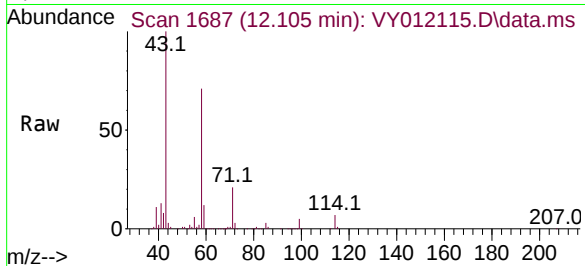




#74
N-amy1 acetate
Concen: 51.108 ug/l
RT: 12.105 min Scan# 1749
Delta R.T. -0.037 min
Lab File: VY012115.D
Acq: 09 Jan 2023 16:57

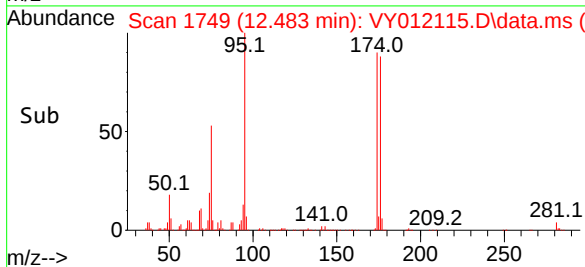
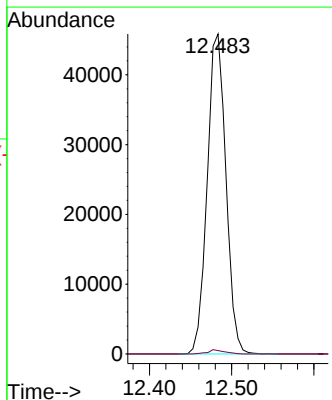
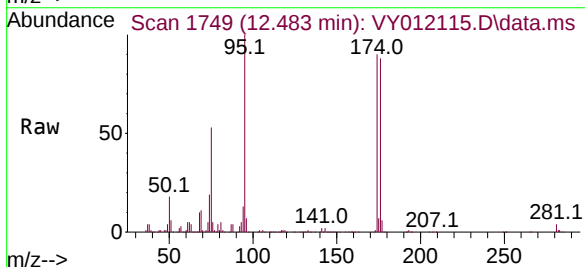
Instrument :
MSVOA_Y
ClientSampleId :
S-14-02

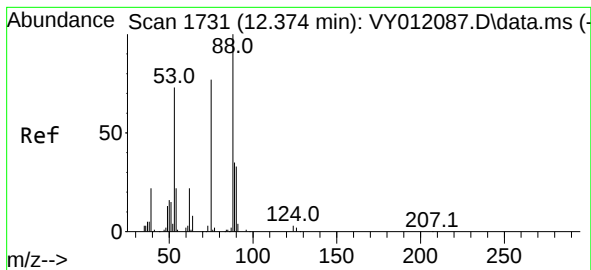
Tgt Ion: 43 Resp: 122194
Ion Ratio Lower Upper
43 100
70 0.7 35.8 53.8#
55 7.0 21.0 31.4#
61 0.0 20.0 30.0#



#76
1,2,3-Trichloropropane
Concen: 43.337 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. -0.147 min
Lab File: VY012115.D
Acq: 09 Jan 2023 16:57

Tgt Ion: 75 Resp: 72423
Ion Ratio Lower Upper
75 100
77 1.2 0.0 0.0#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 96.245 ug/l
 RT: 12.483 min Scan# 11
 Delta R.T. 0.109 min
 Lab File: VY012115.D
 Acq: 09 Jan 2023 16:57

Instrument :
 MSVOA_Y
 ClientSampleId :
 S-14-02

Tgt Ion: 75 Resp: 72423
 Ion Ratio Lower Upper
 75 100
 53 0.0 72.5 108.7#
 89 0.0 37.0 55.4#

