

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_Y\DATA\VY091919\
 Data File : VY000083.D
 Acq On : 19 Sep 2019 17:29
 Operator : SY/MD
 Sample : K4878-14
 Misc : 6.39g/5.00ml/MSVOA_Y/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 CSA-2-9-2

Quant Time: Sep 20 01:56:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y091719S.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 19 05:38:39 2019
 Response via : Initial Calibration

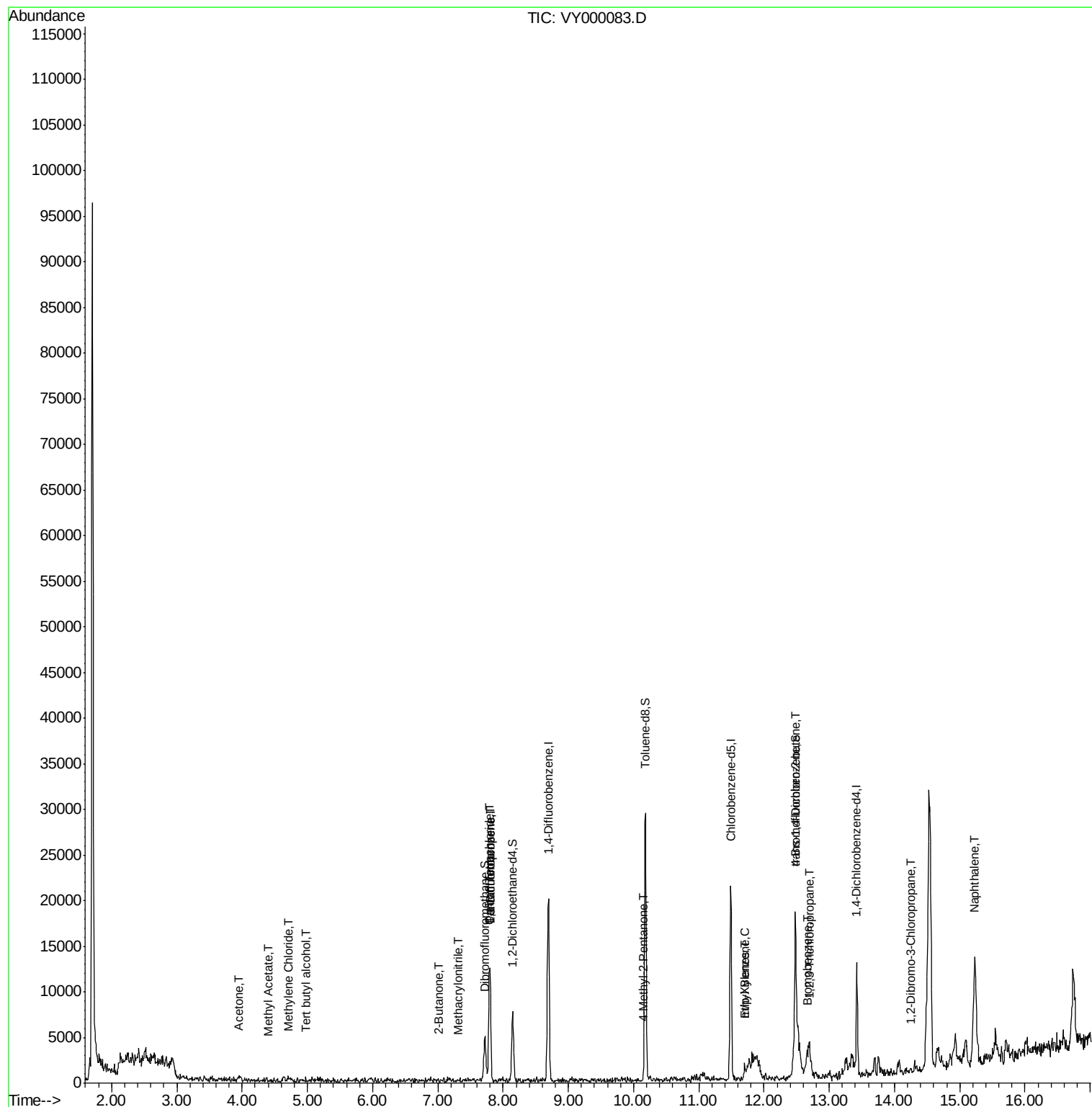
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.79	168	9791	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.70	114	18268	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	11675	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	3313	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.15	65	5093	45.21	ug/l	0.00
Spiked Amount 50.000			Recovery	=	90.42%	
35) Dibromofluoromethane	7.73	113	3639	32.90	ug/l	0.01
Spiked Amount 50.000			Recovery	=	65.80%	
50) Toluene-d8	10.18	98	19847	45.68	ug/l	0.00
Spiked Amount 50.000			Recovery	=	91.36%	
62) 4-Bromofluorobenzene	12.48	95	4176	25.89	ug/l	0.00
Spiked Amount 50.000			Recovery	=	51.78%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.90	85	20	Below Cal	#	42
3) Chloromethane	2.11	50	174	Below Cal	#	41
11) Tert butyl alcohol	4.98	59	65	4.867 ug/l	#	73
13) Acrolein	3.81	56	31	Below Cal		95
16) Acetone	3.95	43	1033	39.386 ug/l	#	33
17) Carbon Disulfide	4.20	76	27	Below Cal	#	77
18) Methyl Acetate	4.40	43	93	1.061 ug/l	#	45
20) Methylene Chloride	4.71	84	351	2.845 ug/l	#	46
25) 2-Butanone	7.01	43	120	2.526 ug/l	#	44
31) Cyclohexane	7.79	56	382	Below Cal	#	49
36) 1,1-Dichloropropene	7.79	75	760	5.564 ug/l	#	40
38) Carbon Tetrachloride	7.79	117	791	6.136 ug/l	#	13
41) Methacrylonitrile	7.32	41	36	4.773 ug/l	#	1
51) 4-Methyl-2-Pentanone	10.15	43	100	1.029 ug/l		96
67) Ethyl Benzene	11.70	91	436	1.058 ug/l	#	1
68) m/p-Xylenes	11.69	106	278	1.773 ug/l		76
76) 1,2,3-Trichloropropane	12.68	75	109	2.338 ug/l	#	100
77) Bromobenzene	12.66	156	2017	36.178 ug/l	#	1
81) trans-1,4-Dichloro-2-buten	12.48	75	2999	123.737 ug/l	#	22
92) 1,2-Dibromo-3-Chloropropan	14.26	75	55	4.915 ug/l	#	21
95) Naphthalene	15.22	128	1089	6.118 ug/l	#	93

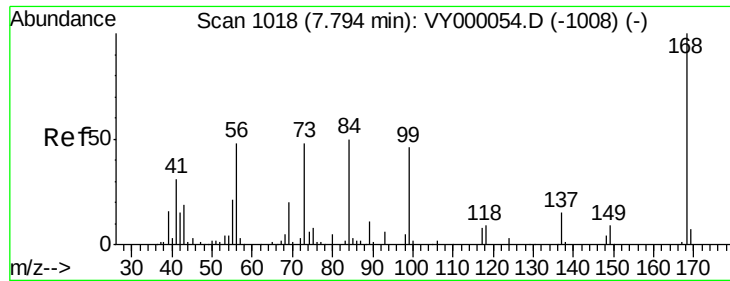
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.79 min Scan# 1018

Delta R.T. -0.00 min

Lab File: VY000083.D

Acq: 19 Sep 2019 17:29

Instrument :

MSVOA_Y

ClientSampleId :

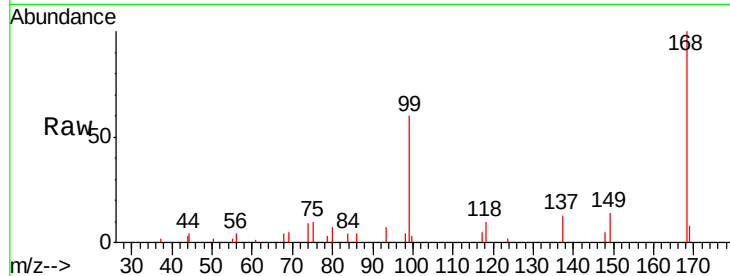
CSA-2-9-2

Tgt Ion:168 Resp: 9791

Ion Ratio Lower Upper

168 100

99 60.0 44.2 66.2



Abundance Ion 167.90 (167.60 to 168.60): VY000054.D (-1008) (-)

Ion 98.90 (98.60 to 99.60): VY000054.D (-1008) (-)

7.79

4000

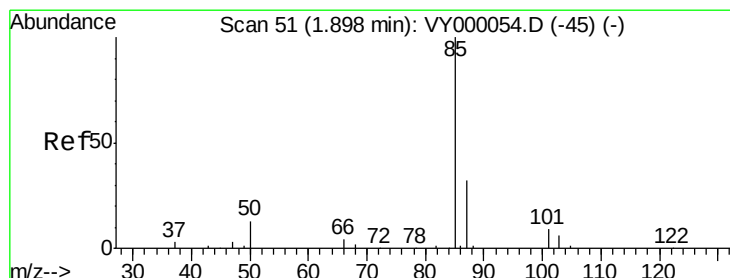
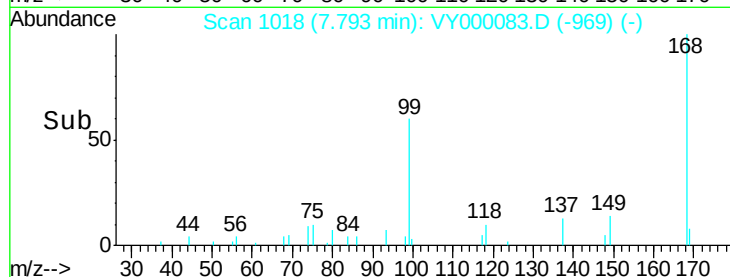
3000

2000

1000

0

Time--> 7.70 7.75 7.80 7.85



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.90 min Scan# 52

Delta R.T. 0.01 min

Lab File: VY000083.D

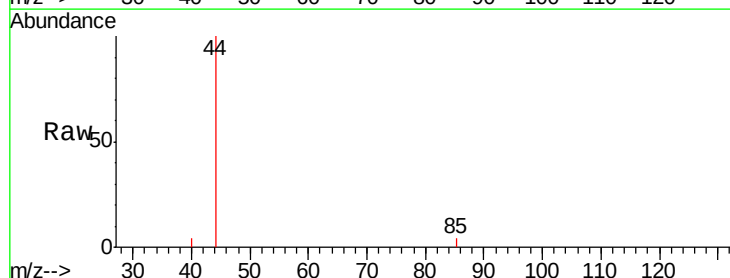
Acq: 19 Sep 2019 17:29

Tgt Ion: 85 Resp: 20

Ion Ratio Lower Upper

85 100

87 0.0 16.2 48.5#



Abundance Ion 84.90 (84.60 to 85.60): VY000054.D (-45) (-)

Ion 86.90 (86.60 to 87.60): VY000054.D (-45) (-)

1.90

60

50

40

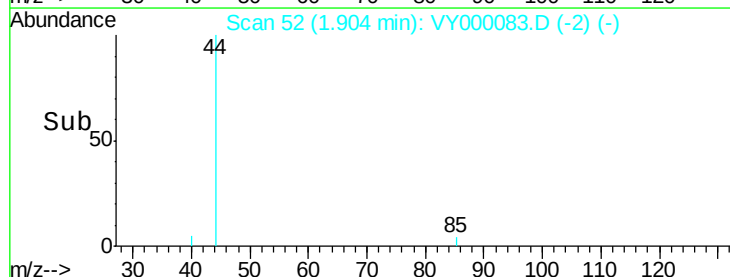
30

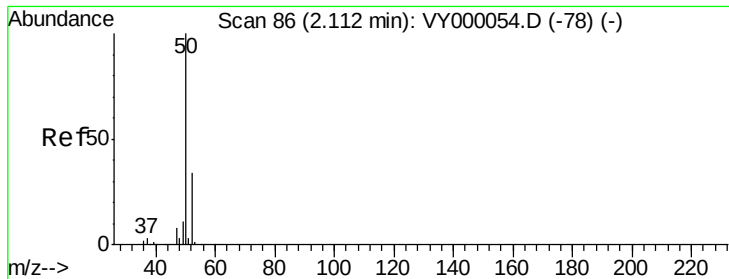
20

10

0

Time--> 1.88 1.89 1.90 1.91 1.92





#3

Chloromethane

Concen: Below Cal

RT: 2.11 min Scan# 85

Delta R.T. -0.01 min

Lab File: VY000083.D

Acq: 19 Sep 2019 17:29

Instrument :

MSVOA_Y

ClientSampleId :

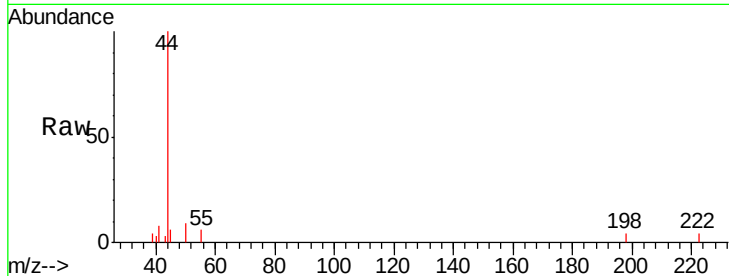
CSA-2-9-2

Tgt Ion: 50 Resp: 174

Ion Ratio Lower Upper

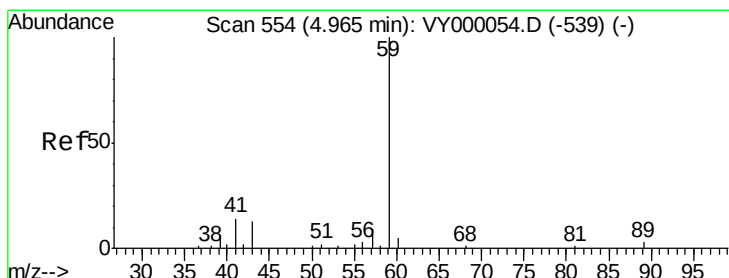
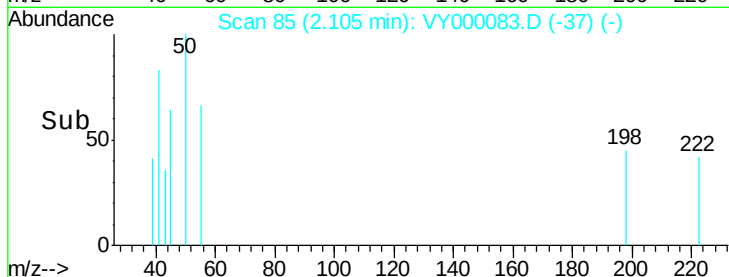
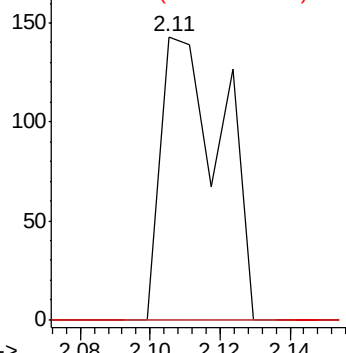
50 100

52 0.0 27.3 40.9#



Abundance Ion 49.90 (49.60 to 50.60): VY0

Ion 51.90 (51.60 to 52.60): VY0



#11

Tert butyl alcohol

Concen: 4.867 ug/l

RT: 4.98 min Scan# 556

Delta R.T. 0.01 min

Lab File: VY000083.D

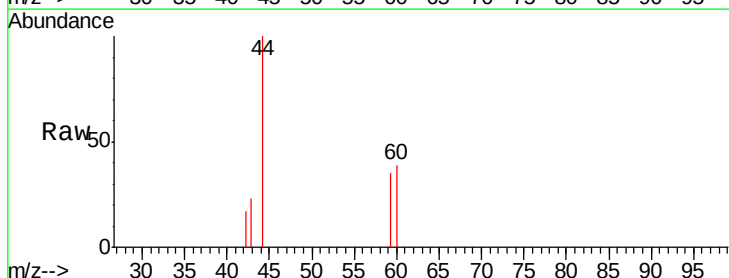
Acq: 19 Sep 2019 17:29

Tgt Ion: 59 Resp: 65

Ion Ratio Lower Upper

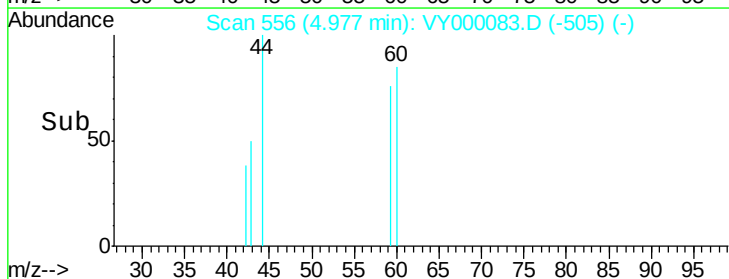
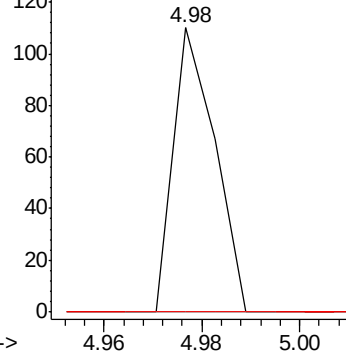
59 100

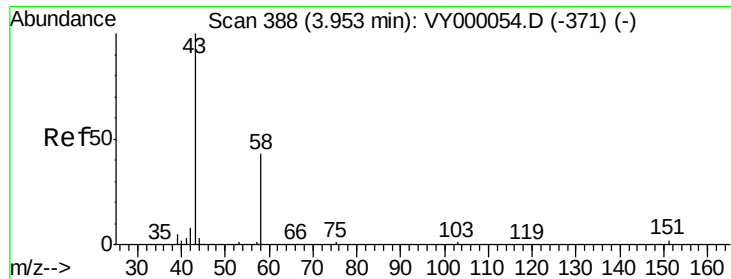
57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VY0

Ion 57.00 (56.70 to 57.70): VY0





#16

Acetone

Concen: 39.386 ug/l

RT: 3.95 min Scan# 387

Delta R.T. -0.01 min

Lab File: VY000083.D

Acq: 19 Sep 2019 17:29

Instrument :

MSVOA_Y

ClientSampled :

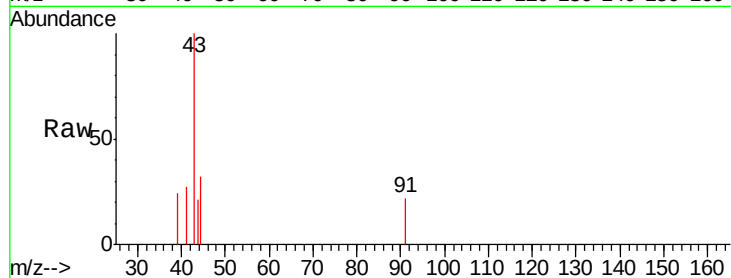
CSA-2-9-2

Tgt Ion: 43 Resp: 1033

Ion Ratio Lower Upper

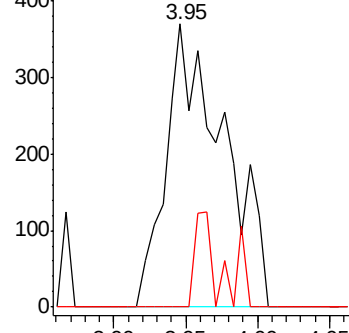
43 100

58 0.0 34.5 51.7#

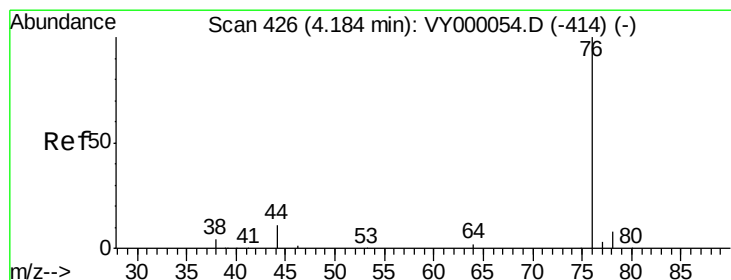
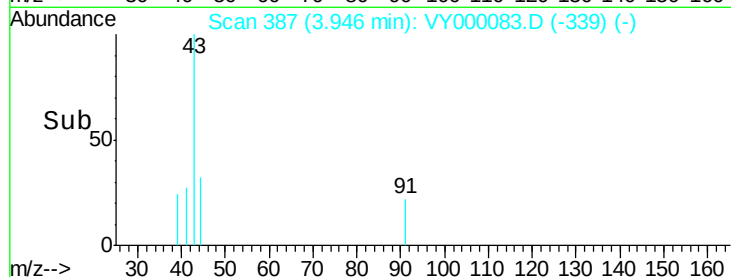


Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0



Time-->



#17

Carbon Disulfide

Concen: Below Cal

RT: 4.20 min Scan# 428

Delta R.T. 0.01 min

Lab File: VY000083.D

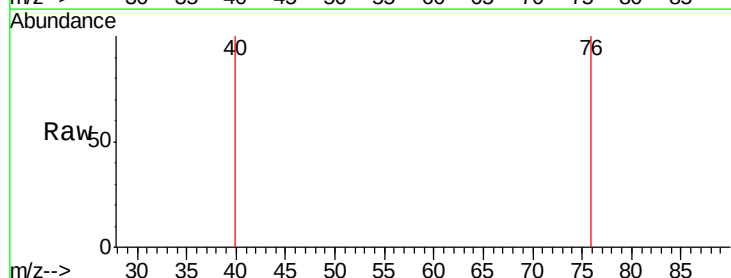
Acq: 19 Sep 2019 17:29

Tgt Ion: 76 Resp: 27

Ion Ratio Lower Upper

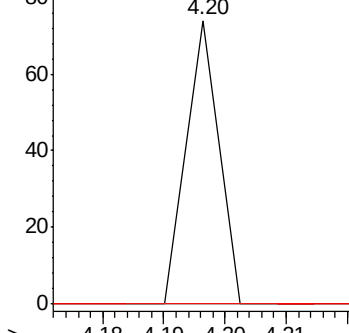
76 100

78 0.0 6.6 9.8#

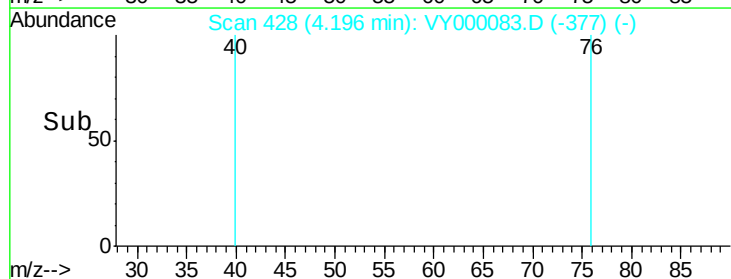


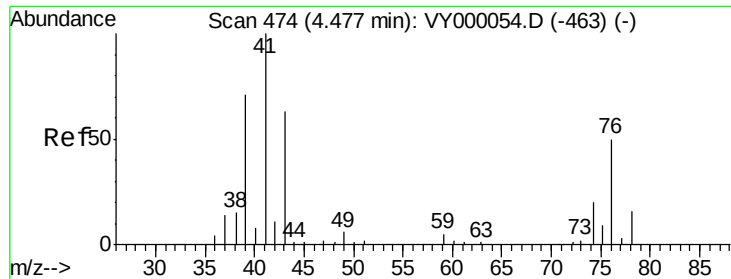
Abundance Ion 75.90 (75.60 to 76.60): VY0

Ion 77.90 (77.60 to 78.60): VY0



Time-->

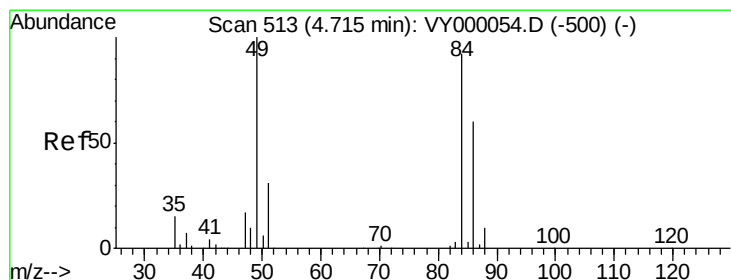
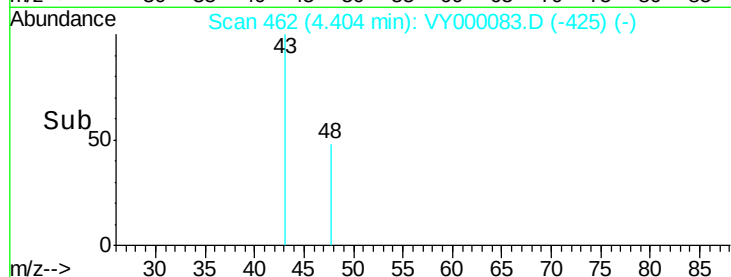
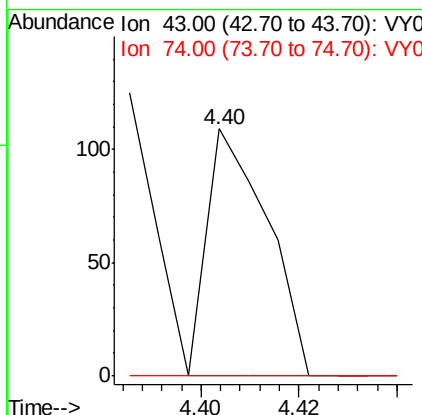
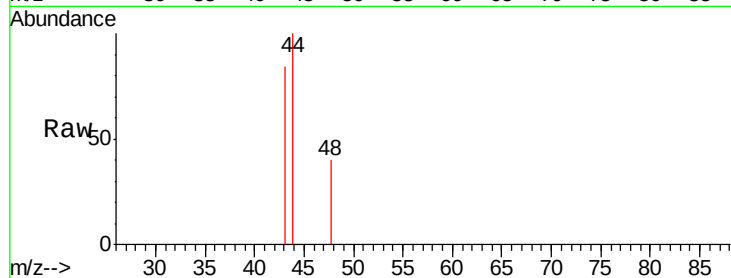




#18
Methyl Acetate
Concen: 1.061 ug/l
RT: 4.40 min Scan# 462
Delta R.T. -0.07 min
Lab File: VY000083.D
Acq: 19 Sep 2019 17:29

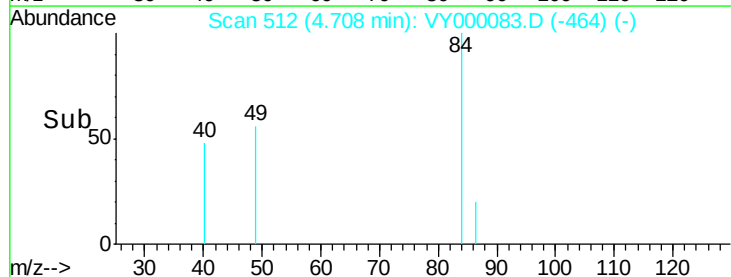
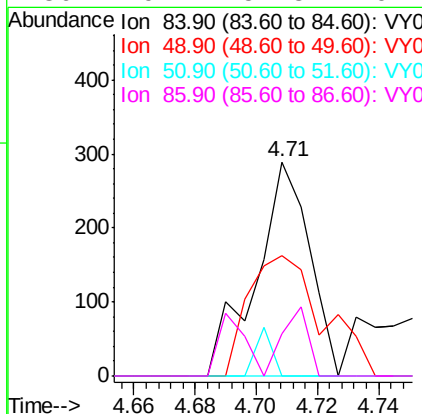
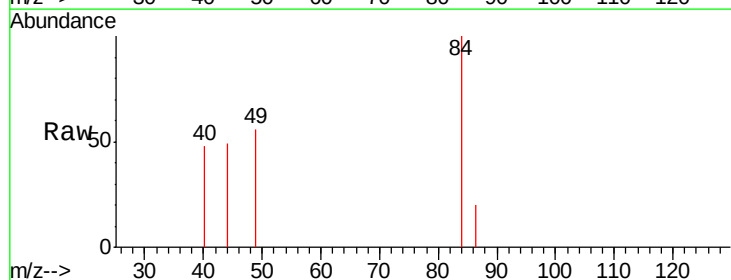
Instrument :
MSVOA_Y
ClientSampled :
CSA-2-9-2

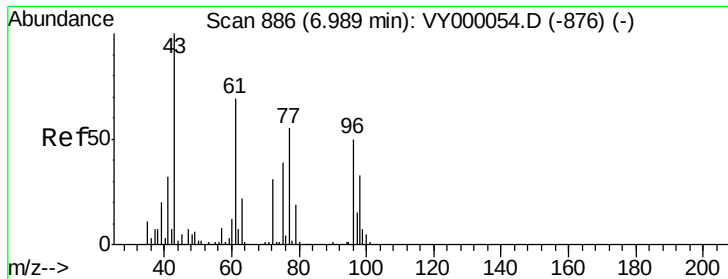
Tgt Ion: 43 Resp: 93
Ion Ratio Lower Upper
43 100
74 0.0 24.1 36.1#



#20
Methylene Chloride
Concen: 2.845 ug/l
RT: 4.71 min Scan# 512
Delta R.T. -0.01 min
Lab File: VY000083.D
Acq: 19 Sep 2019 17:29

Tgt Ion: 84 Resp: 351
Ion Ratio Lower Upper
84 100
49 56.4 87.4 131.0#
51 0.0 27.2 40.8#
86 19.7 52.8 79.2#





#25

2-Butanone

Concen: 2.526 ug/l

RT: 7.01 min Scan# 890

Delta R.T. 0.02 min

Lab File: VY000083.D

Acq: 19 Sep 2019 17:29

Instrument :

MSVOA_Y

ClientSampled :

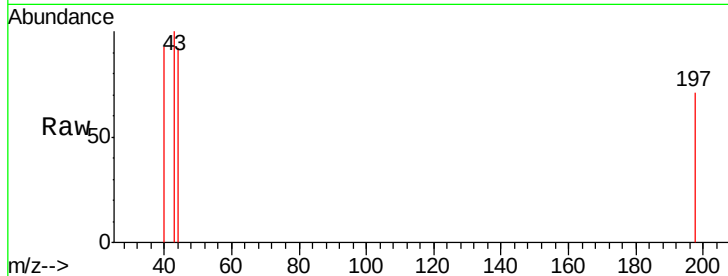
CSA-2-9-2

Tgt Ion: 43 Resp: 120

Ion Ratio Lower Upper

43 100

72 0.0 24.7 37.1#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 72.00 (71.70 to 72.70): VY0

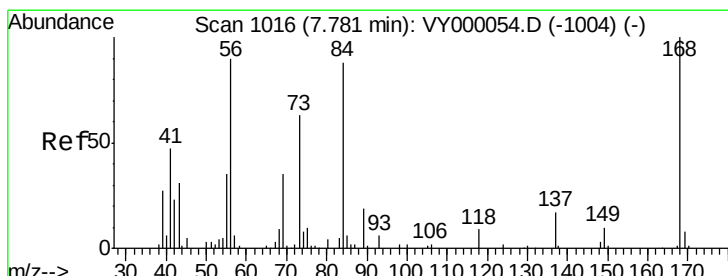
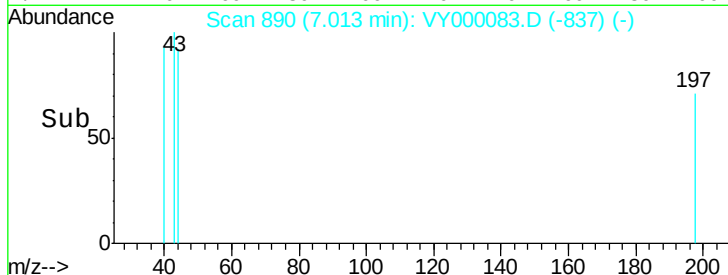
7.01

100

50

0

Time-->



#31

Cyclohexane

Concen: Below Cal

RT: 7.79 min Scan# 1017

Delta R.T. 0.01 min

Lab File: VY000083.D

Acq: 19 Sep 2019 17:29

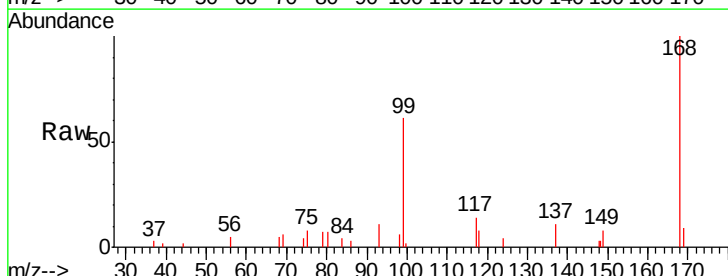
Tgt Ion: 56 Resp: 382

Ion Ratio Lower Upper

56 100

69 118.6 30.9 46.3#

84 79.1 78.5 117.7



Abundance Ion 56.00 (55.70 to 56.70): VY0

Ion 69.00 (68.70 to 69.70): VY0

Ion 84.00 (83.70 to 84.70): VY0

7.79

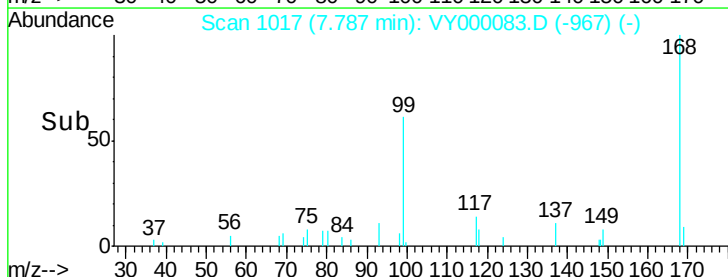
300

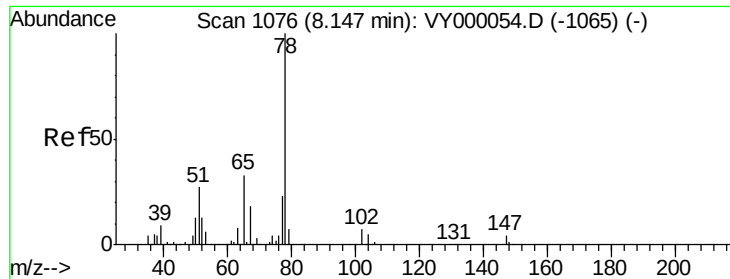
200

100

0

Time-->

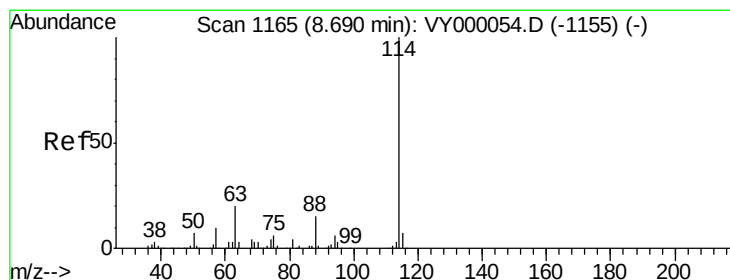
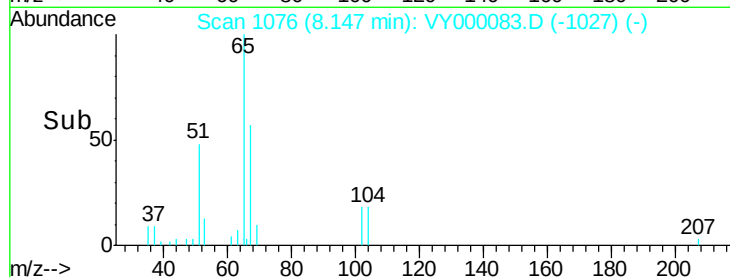
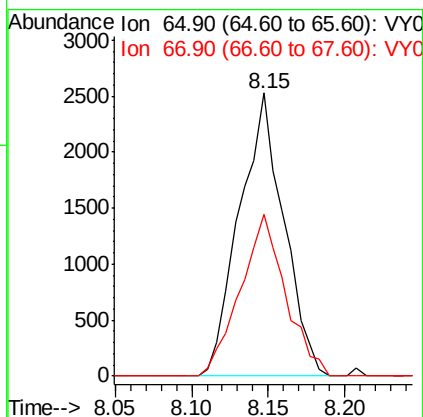
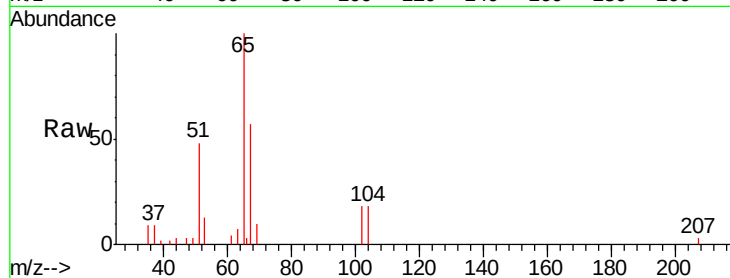




#33
 1,2-Dichloroethane-d4
 Concen: 45.212 ug/l
 RT: 8.15 min Scan# 1076
 Delta R.T. -0.00 min
 Lab File: VY000083.D
 Acq: 19 Sep 2019 17:29

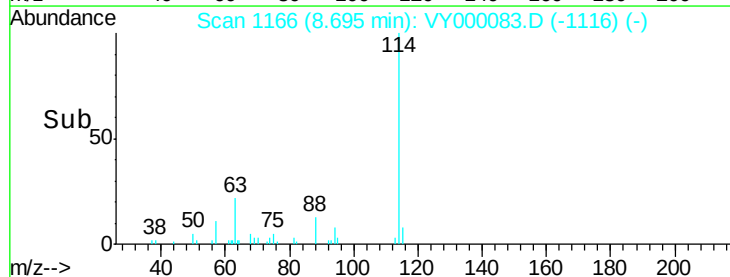
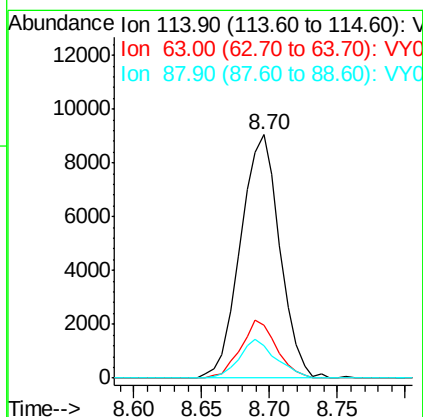
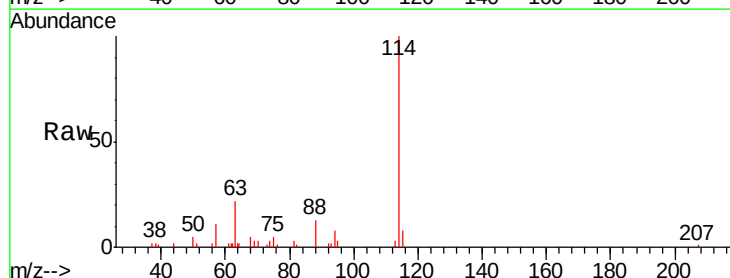
Instrument :
 MSVOA_Y
 ClientSampleId :
 CSA-2-9-2

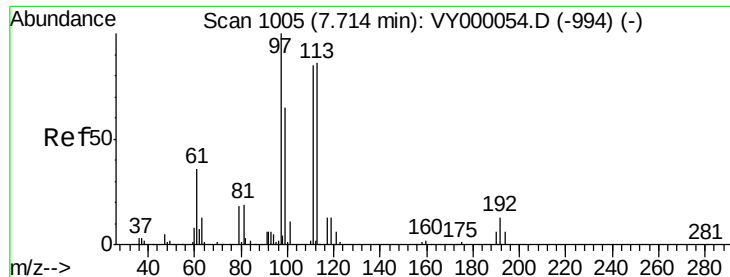
Tgt Ion: 65 Resp: 5093
 Ion Ratio Lower Upper
 65 100
 67 58.3 0.0 111.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.70 min Scan# 1166
 Delta R.T. 0.01 min
 Lab File: VY000083.D
 Acq: 19 Sep 2019 17:29

Tgt Ion: 114 Resp: 18268
 Ion Ratio Lower Upper
 114 100
 63 21.7 0.0 39.4
 88 13.1 0.0 30.2





#35

Dibromofluoromethane

Concen: 32.900 ug/l

RT: 7.73 min Scan# 1007

Delta R.T. 0.01 min

Lab File: VY000083.D

Acq: 19 Sep 2019 17:29

Instrument :

MSVOA_Y

ClientSampleId :

CSA-2-9-2

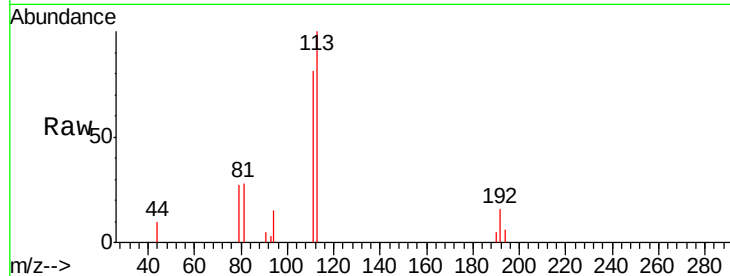
Tgt Ion:113 Resp: 3639

Ion Ratio Lower Upper

113 100

111 105.9 81.7 122.5

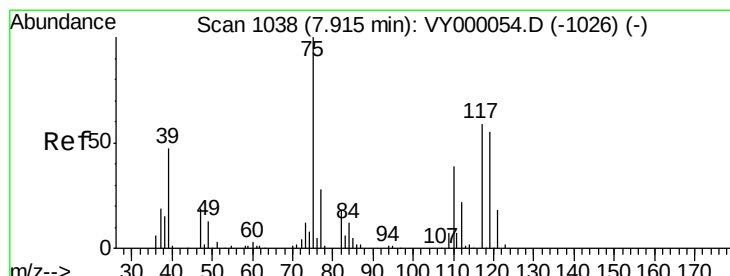
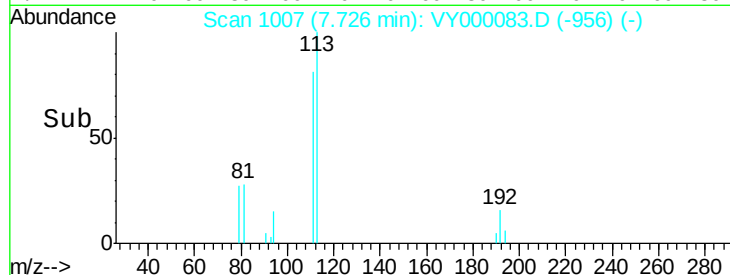
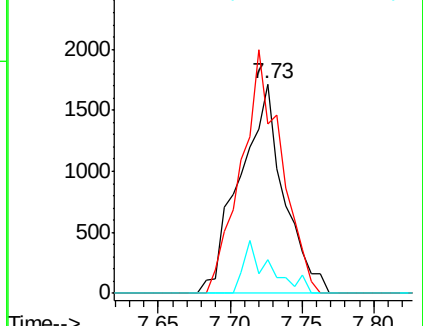
192 15.2 13.4 20.2



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 5.564 ug/l

RT: 7.79 min Scan# 1018

Delta R.T. -0.12 min

Lab File: VY000083.D

Acq: 19 Sep 2019 17:29

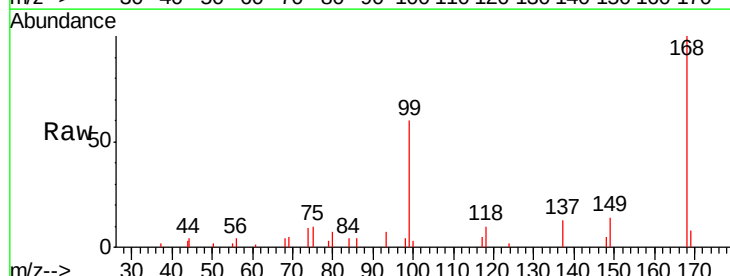
Tgt Ion: 75 Resp: 760

Ion Ratio Lower Upper

75 100

110 0.0 19.6 58.7#

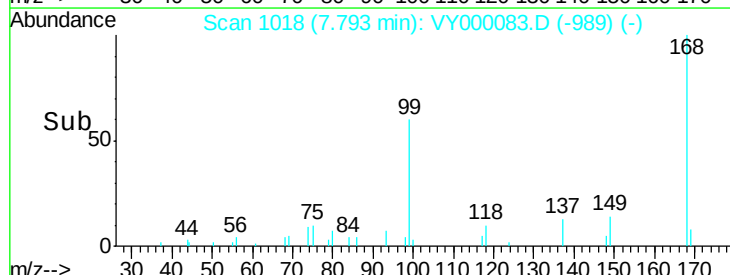
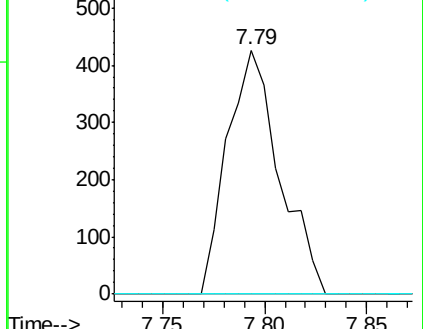
77 0.0 24.3 36.5#

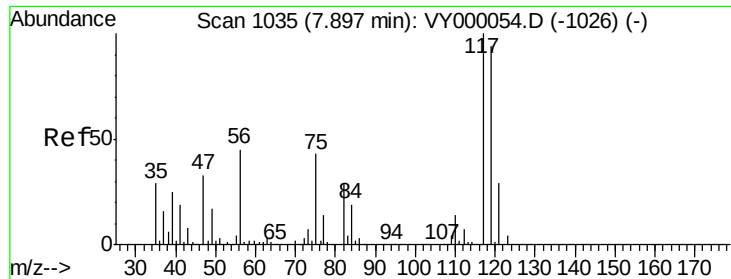


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VY0





#38

Carbon Tetrachloride

Concen: 6.136 ug/l

RT: 7.79 min Scan# 1017

Delta R.T. -0.11 min

Lab File: VY000083.D

Acq: 19 Sep 2019 17:29

Instrument :

MSVOA_Y

ClientSampleId :

CSA-2-9-2

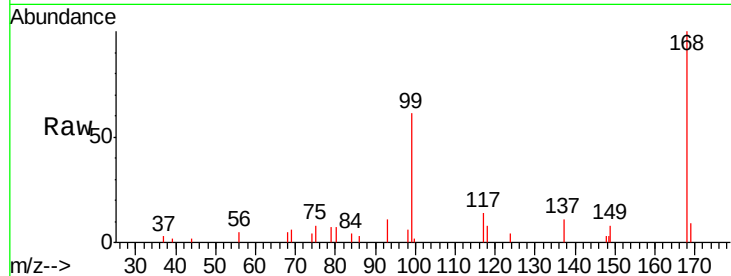
Tgt Ion: 117 Resp: 791

Ion Ratio Lower Upper

117 100

119 0.0 75.0 112.6#

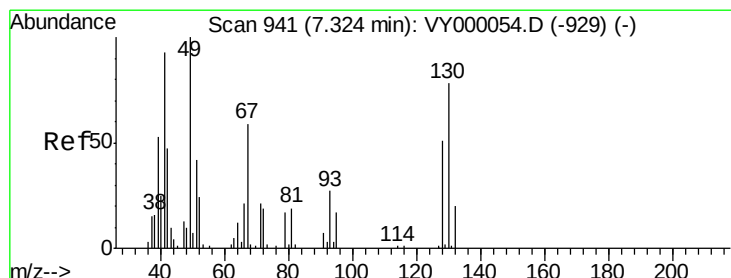
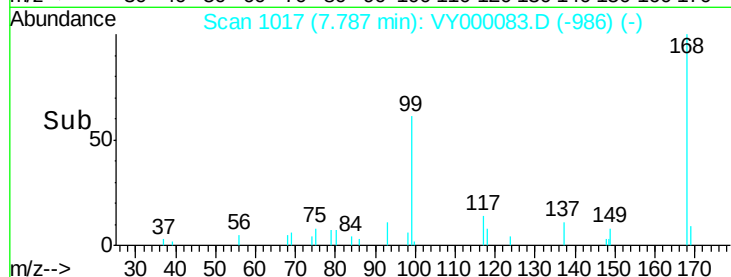
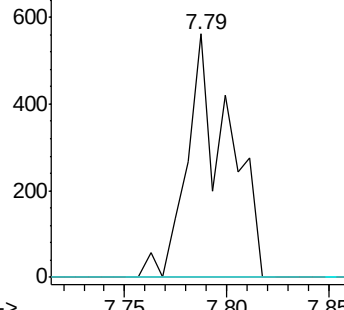
121 0.0 22.8 34.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#41

Methacrylonitrile

Concen: 4.773 ug/l

RT: 7.32 min Scan# 940

Delta R.T. -0.01 min

Lab File: VY000083.D

Acq: 19 Sep 2019 17:29

Tgt Ion: 41 Resp: 36

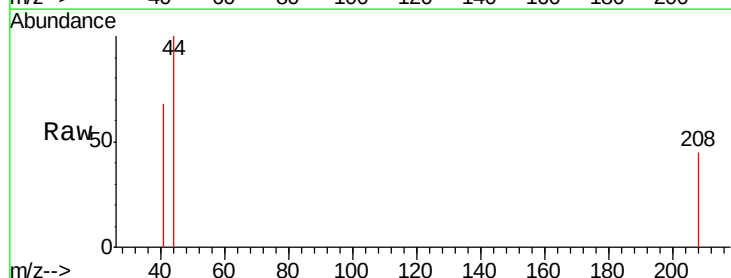
Ion Ratio Lower Upper

41 100

39 0.0 91.8 137.6#

67 0.0 0.0 0.0

52 0.0 0.0 0.0

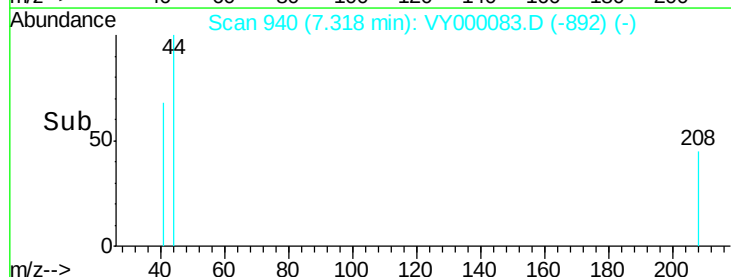
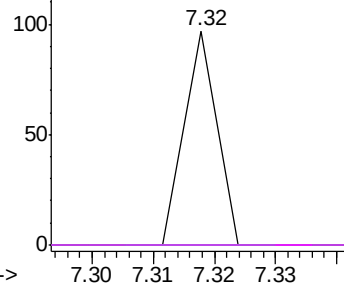


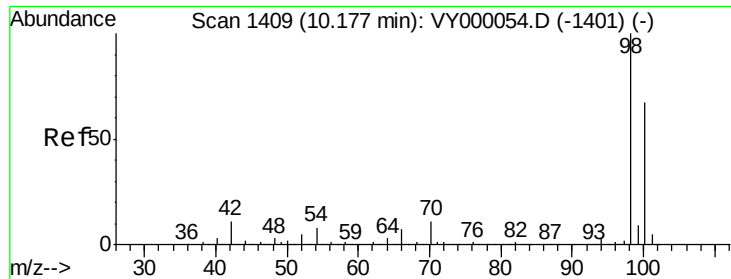
Abundance Ion 41.00 (40.70 to 41.70): VY0

Ion 39.00 (38.70 to 39.70): VY0

Ion 67.00 (66.70 to 67.70): VY0

Ion 52.00 (51.70 to 52.70): VY0

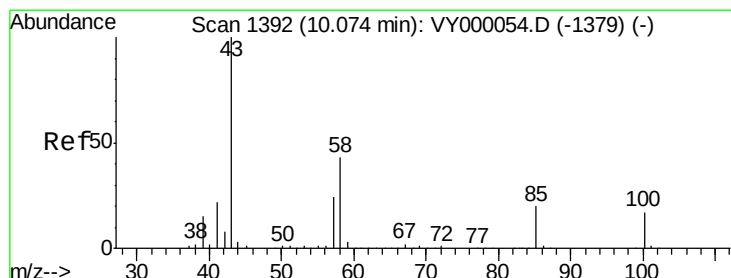
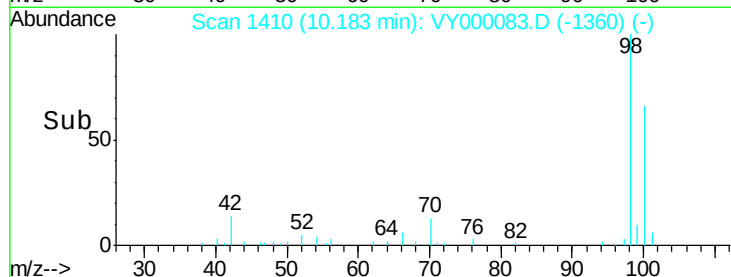
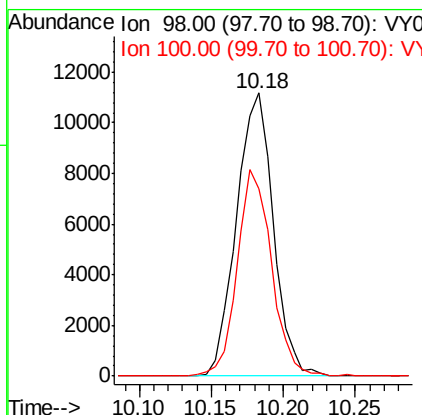
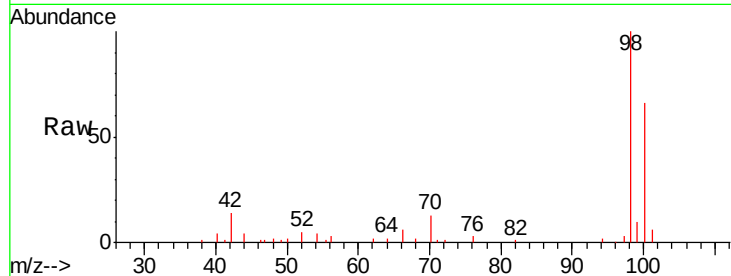




#50
Toluene-d8
Concen: 45.685 ug/l
RT: 10.18 min Scan# 1410
Delta R.T. 0.01 min
Lab File: VY000083.D
Acq: 19 Sep 2019 17:29

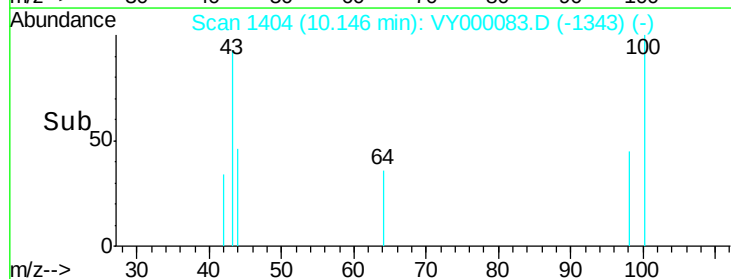
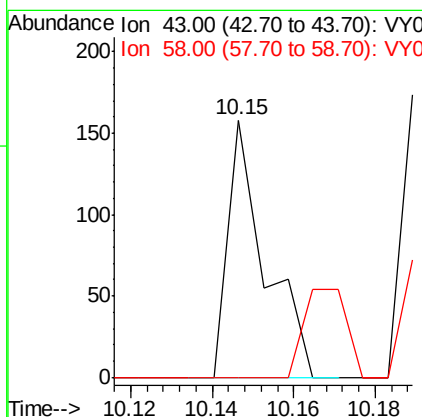
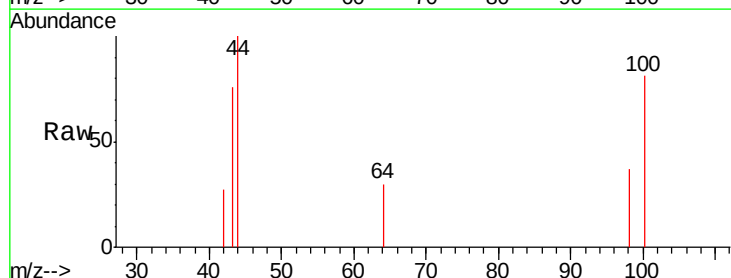
Instrument :
MSVOA_Y
ClientSampled :
CSA-2-9-2

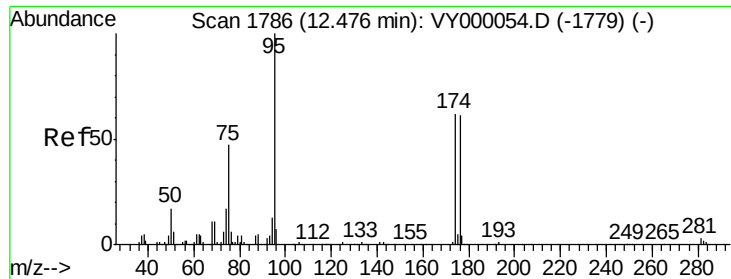
Tgt Ion: 98 Resp: 19847
Ion Ratio Lower Upper
98 100
100 67.9 53.1 79.7



#51
4-Methyl-2-Pentanone
Concen: 1.029 ug/l
RT: 10.15 min Scan# 1404
Delta R.T. 0.07 min
Lab File: VY000083.D
Acq: 19 Sep 2019 17:29

Tgt Ion: 43 Resp: 100
Ion Ratio Lower Upper
43 100
58 40.0 34.2 51.2

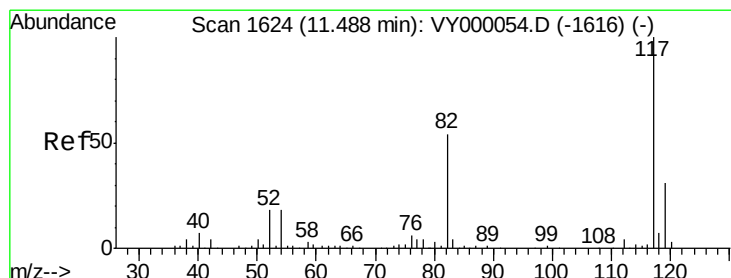
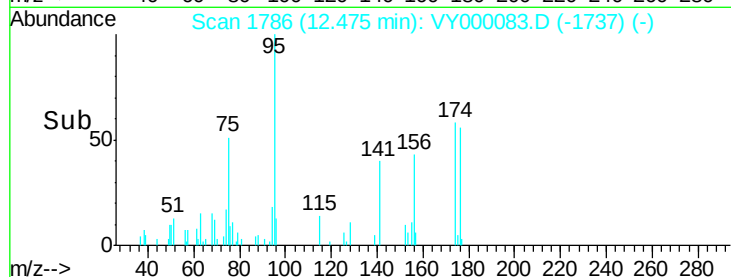
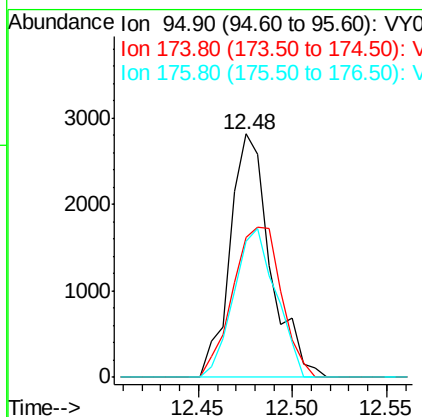
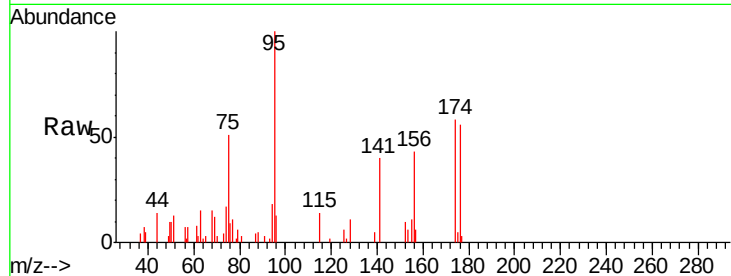




#62
4-Bromofluorobenzene
Concen: 25.891 ug/l
RT: 12.48 min Scan# 1786
Delta R.T. -0.00 min
Lab File: VY000083.D
Acq: 19 Sep 2019 17:29

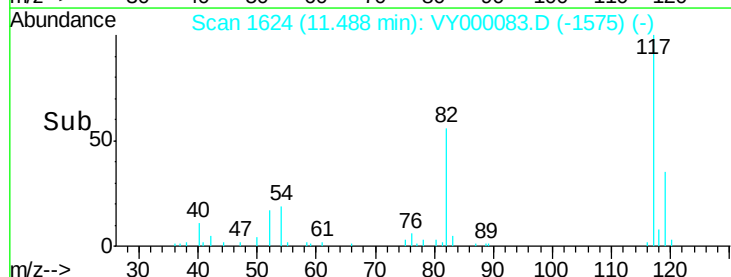
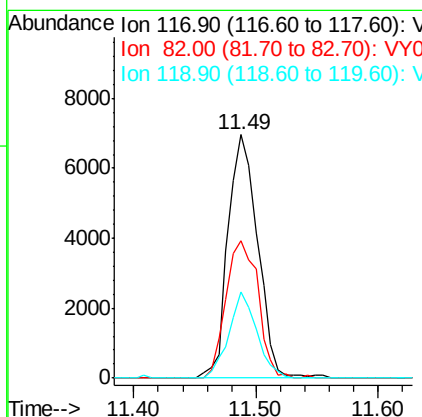
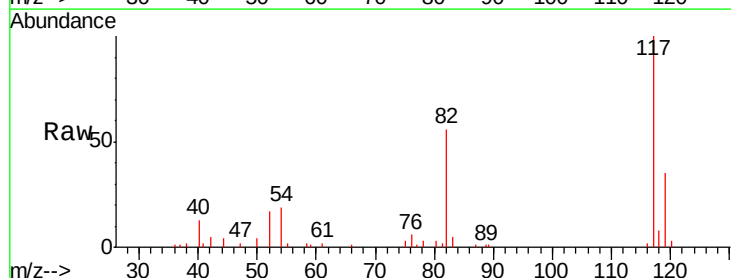
Instrument :
MSVOA_Y
ClientSampleId :
CSA-2-9-2

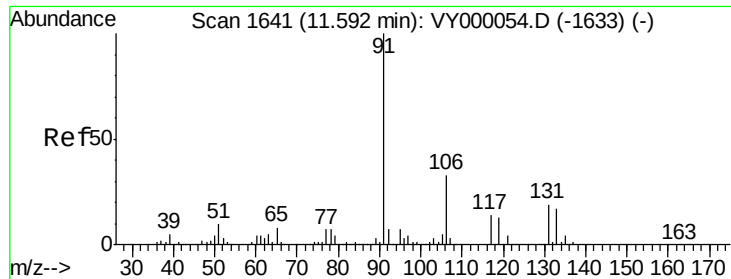
Tgt Ion: 95 Resp: 4176
Ion Ratio Lower Upper
95 100
174 74.6 0.0 137.2
176 63.9 0.0 135.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1624
Delta R.T. -0.00 min
Lab File: VY000083.D
Acq: 19 Sep 2019 17:29

Tgt Ion: 117 Resp: 11675
Ion Ratio Lower Upper
117 100
82 56.2 43.5 65.3
119 35.2 24.6 36.8

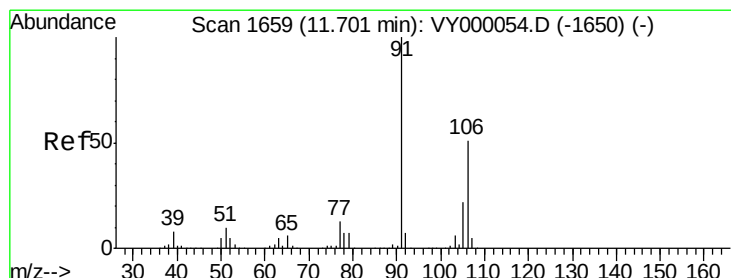
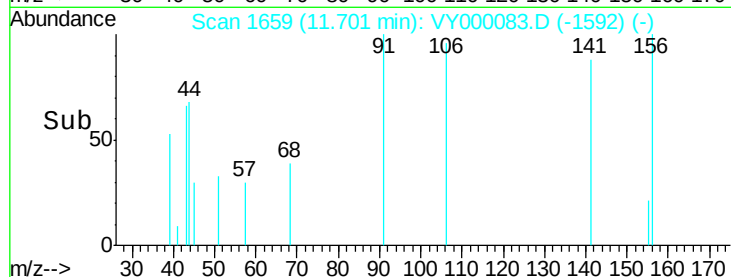
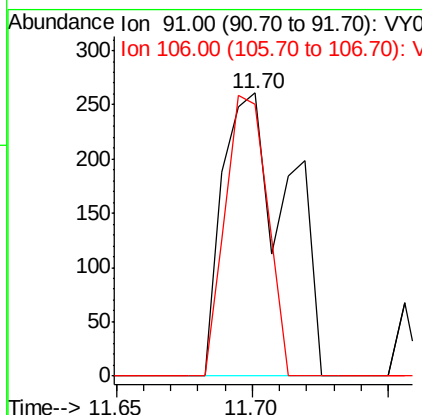
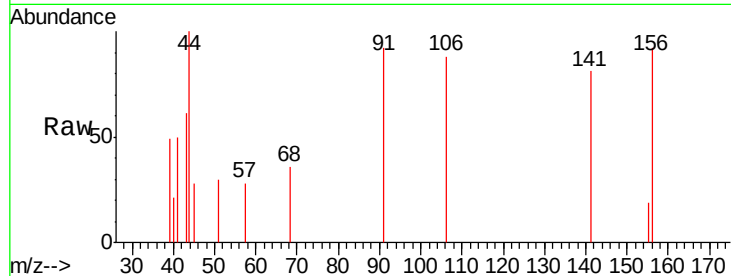




#67
Ethyl Benzene
Concen: 1.058 ug/l
RT: 11.70 min Scan# 1659
Delta R.T. 0.11 min
Lab File: VY000083.D
Acq: 19 Sep 2019 17:29

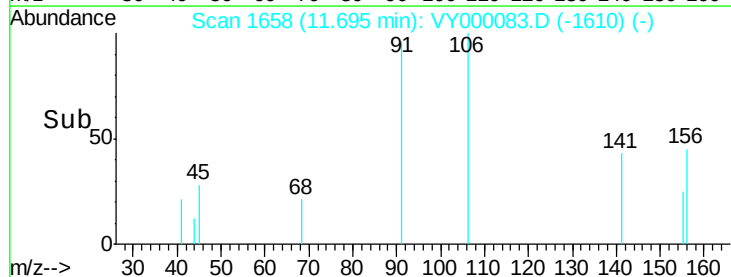
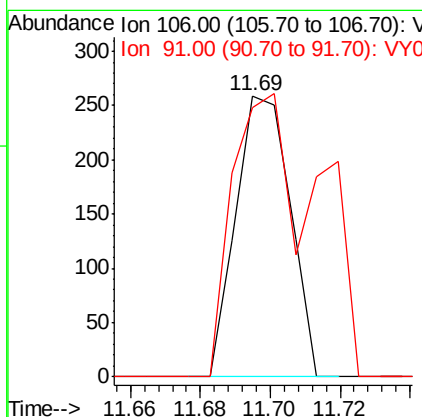
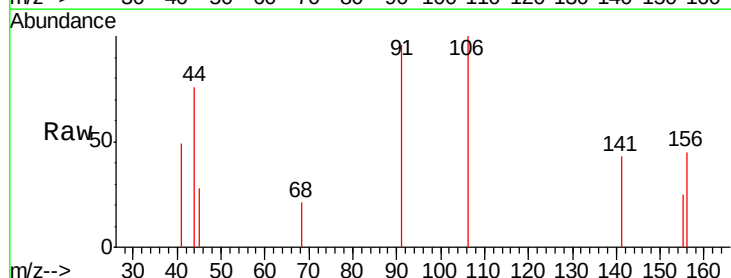
Instrument :
MSVOA_Y
ClientSampleId :
CSA-2-9-2

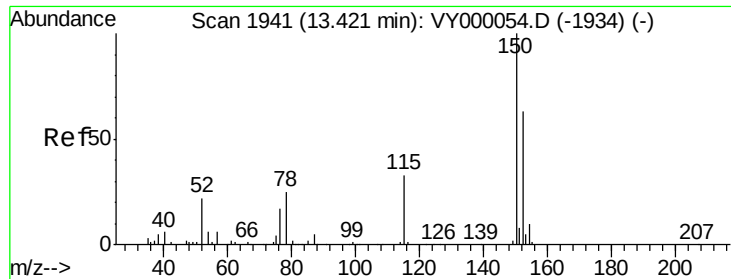
Tgt Ion: 91 Resp: 436
Ion Ratio Lower Upper
91 100
106 96.2 26.6 40.0#



#68
m/p-Xylenes
Concen: 1.773 ug/l
RT: 11.69 min Scan# 1658
Delta R.T. -0.01 min
Lab File: VY000083.D
Acq: 19 Sep 2019 17:29

Tgt Ion: 106 Resp: 278
Ion Ratio Lower Upper
106 100
91 156.8 154.5 231.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.42 min Scan# 1941

Delta R.T. -0.00 min

Lab File: VY000083.D

Acq: 19 Sep 2019 17:29

Instrument :

MSVOA_Y

ClientSampled :

CSA-2-9-2

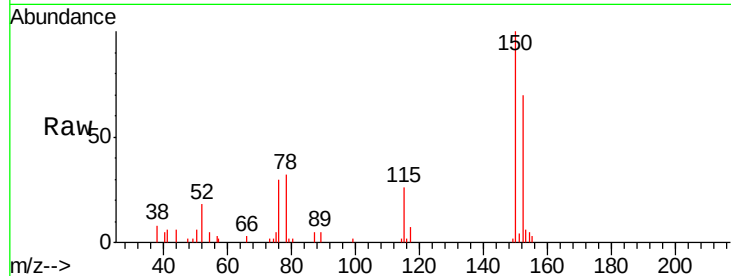
Tgt Ion:152 Resp: 3313

Ion Ratio Lower Upper

152 100

115 63.8 30.7 92.1

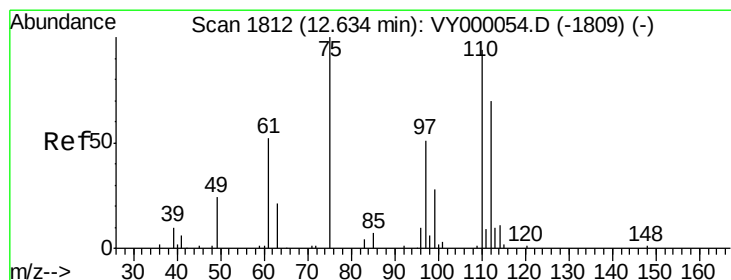
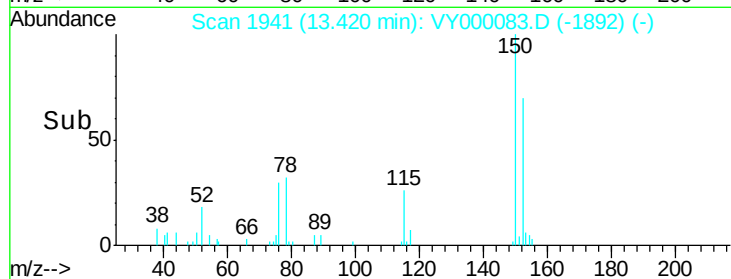
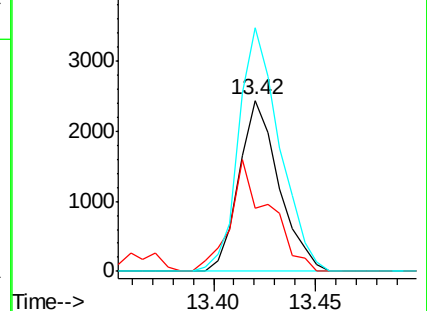
150 145.6 0.0 351.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 2.338 ug/l

RT: 12.68 min Scan# 1820

Delta R.T. 0.05 min

Lab File: VY000083.D

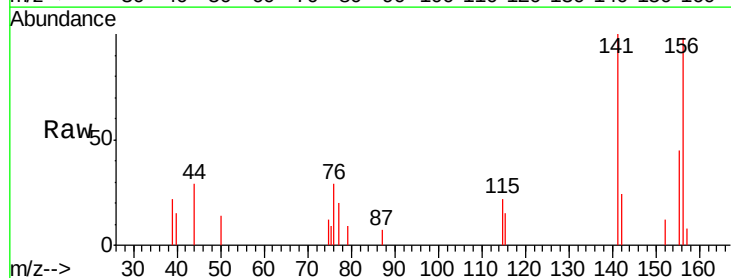
Acq: 19 Sep 2019 17:29

Tgt Ion: 75 Resp: 109

Ion Ratio Lower Upper

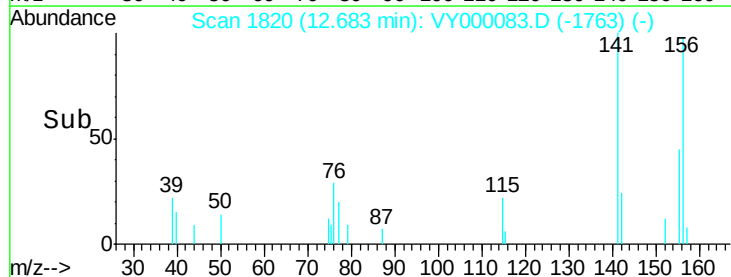
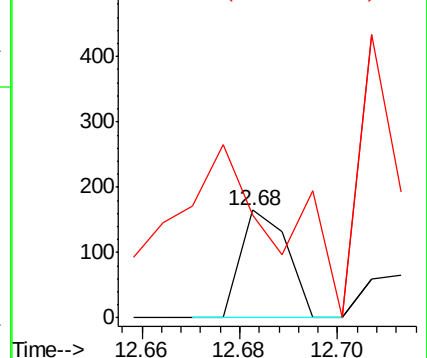
75 100

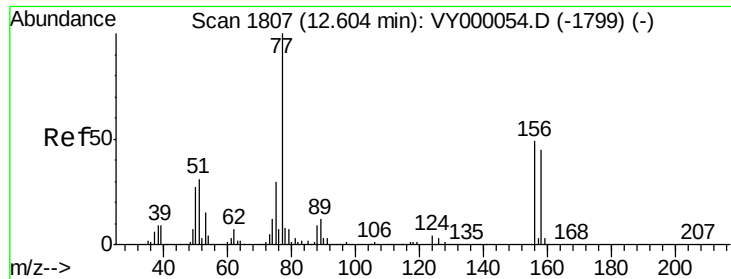
77 232.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 77.00 (76.70 to 77.70): VY0





#77

Bromobenzene

Concen: 36.178 ug/l

RT: 12.66 min Scan# 1817

Delta R.T. 0.06 min

Lab File: VY000083.D

Acq: 19 Sep 2019 17:29

Instrument :

MSVOA_Y

ClientSampled :

CSA-2-9-2

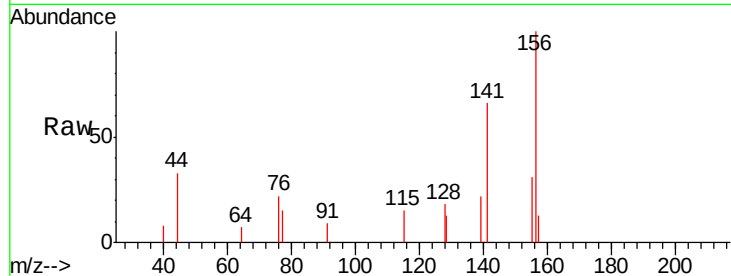
Tgt Ion:156 Resp: 2017

Ion Ratio Lower Upper

156 100

77 12.5 109.7 329.0#

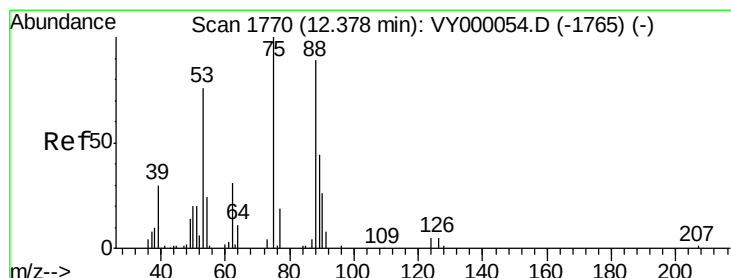
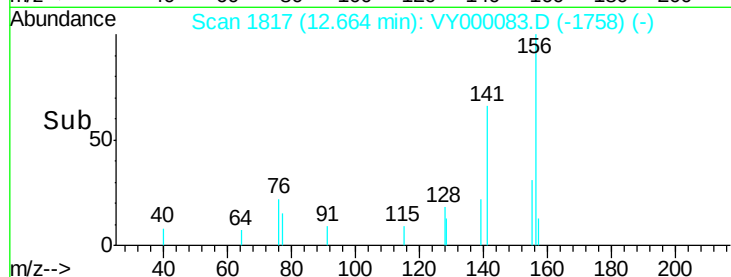
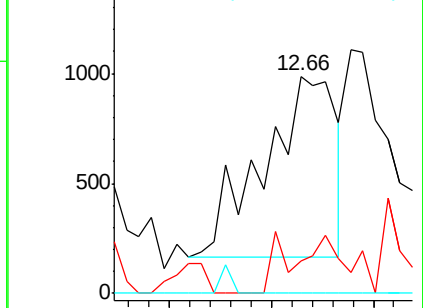
158 0.0 48.0 144.2#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VY0

Ion 157.80 (157.50 to 158.50): V



#81

trans-1,4-Dichloro-2-butene

Concen: 123.737 ug/l

RT: 12.48 min Scan# 1787

Delta R.T. 0.10 min

Lab File: VY000083.D

Acq: 19 Sep 2019 17:29

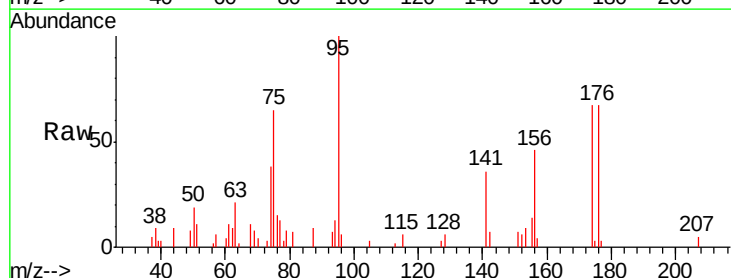
Tgt Ion: 75 Resp: 2999

Ion Ratio Lower Upper

75 100

53 0.0 60.9 91.3#

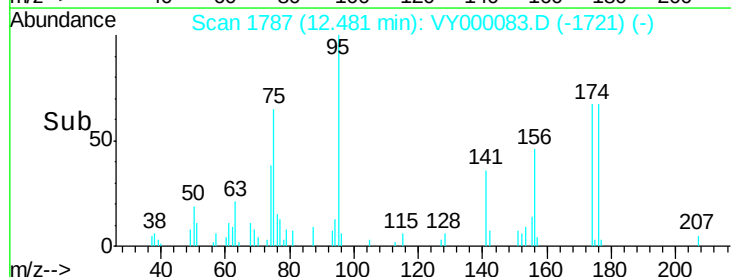
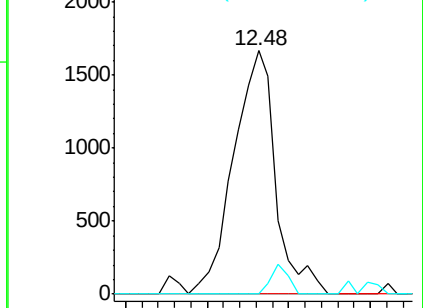
89 4.9 35.3 52.9#

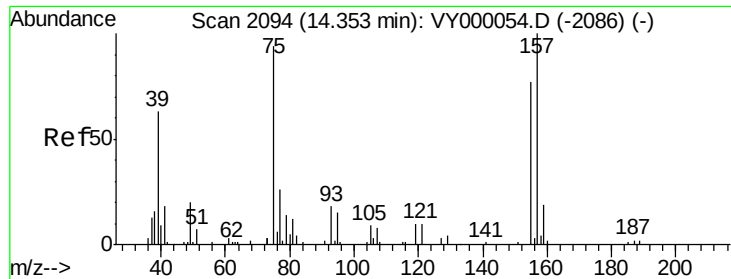


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 53.00 (52.70 to 53.70): VY0

Ion 88.90 (88.60 to 89.60): VY0





#92

1,2-Dibromo-3-Chloropropane

Concen: 4.915 ug/l

RT: 14.26 min Scan# 2078

Delta R.T. -0.10 min

Lab File: VY000083.D

Acq: 19 Sep 2019 17:29

Instrument :

MSVOA_Y

ClientSampleId :

CSA-2-9-2

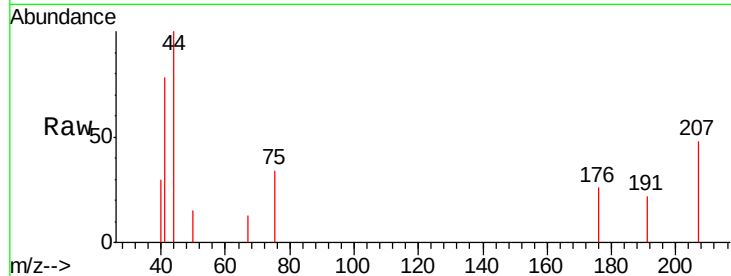
Tgt Ion: 75 Resp: 55

Ion Ratio Lower Upper

75 100

155 0.0 40.6 121.7#

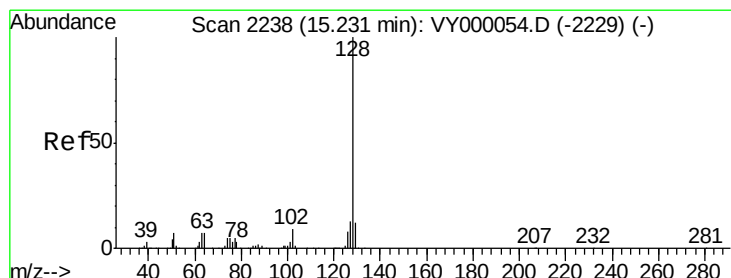
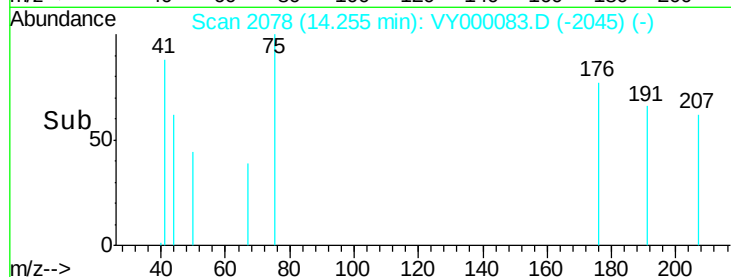
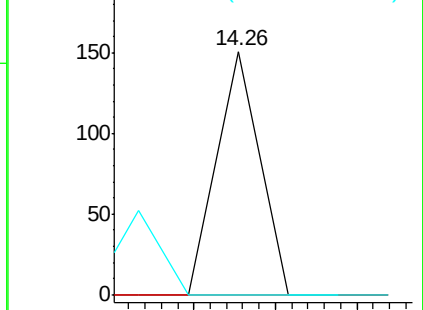
157 34.5 52.9 158.8#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



#95

Naphthalene

Concen: 6.118 ug/l

RT: 15.22 min Scan# 2237

Delta R.T. -0.01 min

Lab File: VY000083.D

Acq: 19 Sep 2019 17:29

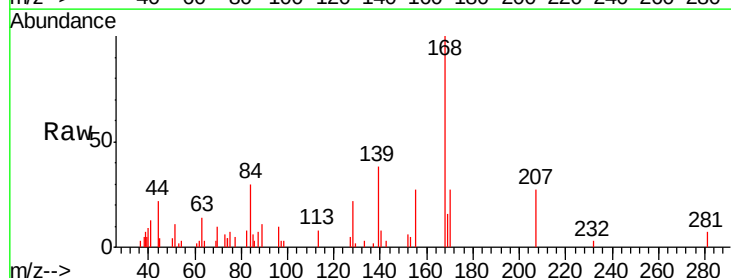
Tgt Ion: 128 Resp: 1089

Ion Ratio Lower Upper

128 100

127 12.4 10.3 15.5

129 16.5 9.2 13.8#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

