

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_Y\DATA\VY032420\
 Data File : VY002057.D
 Acq On : 24 Mar 2020 17:40
 Operator : SY/MD
 Sample : L1754-01
 Misc : 6.16G/5ML/MSVOA_Y/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 NB-08-032420

Quant Time: Mar 24 18:58:43 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y030420S.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 05 04:05:33 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.81	168	132536	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.71	114	262915	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.50	117	228657	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.44	152	87519	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.16	65	86823	61.36	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	122.72%	
35) Dibromofluoromethane	7.74	113	78365	54.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.18%	
50) Toluene-d8	10.19	98	314503	51.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.90%	
62) 4-Bromofluorobenzene	12.49	95	98885	46.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.96%	

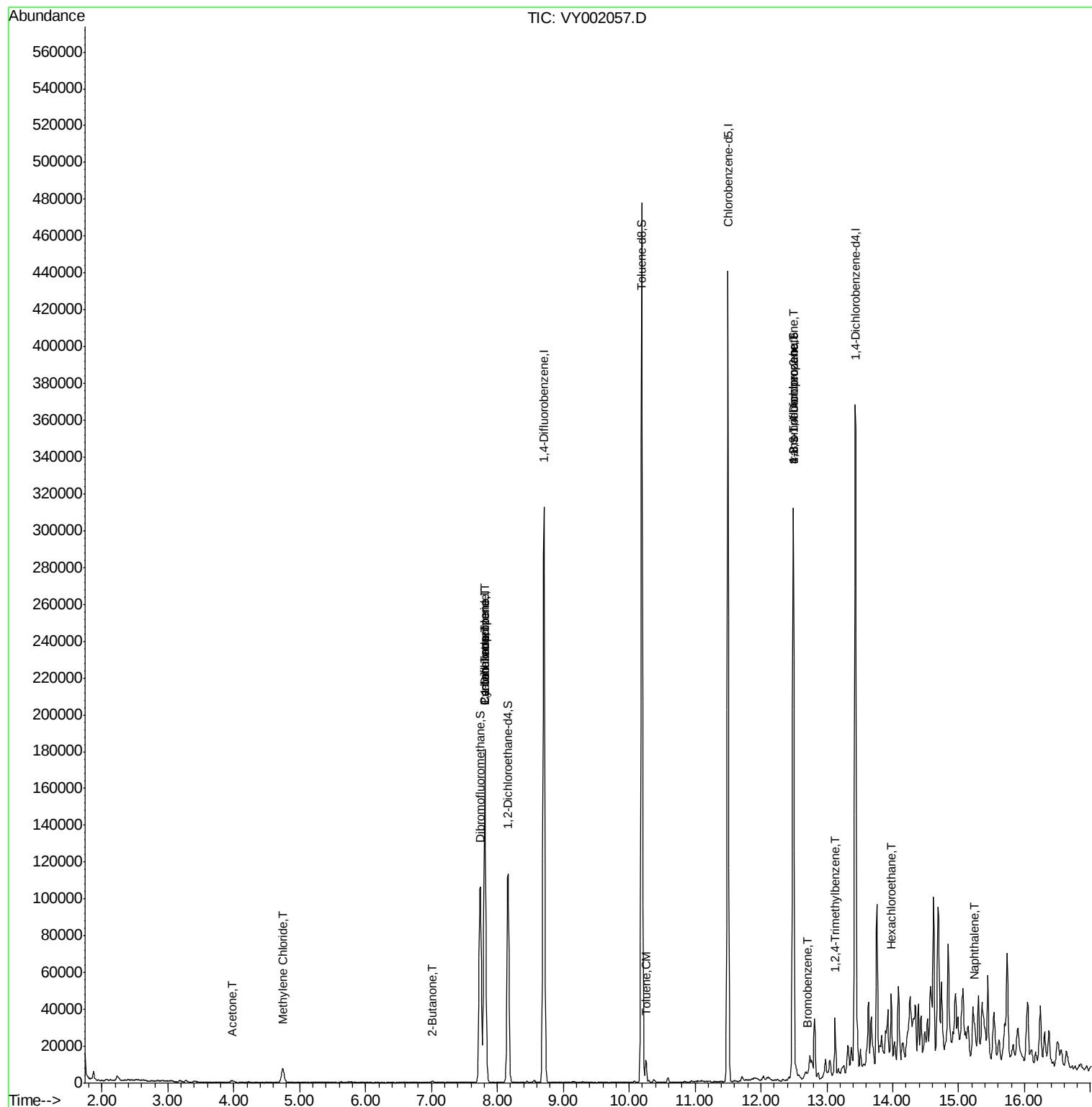
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.98	59	120	Below Cal	#	74
16) Acetone	3.98	43	2192	5.32	ug/l	95
20) Methylene Chloride	4.75	84	5719	3.24	ug/l	# 90
25) 2-Butanone	7.02	43	721	1.15	ug/l	# 89
31) Cyclohexane	7.82	56	3317	1.07	ug/l	# 1
36) 1,1-Dichloropropene	7.81	75	11338	4.48	ug/l	# 50
38) Carbon Tetrachloride	7.81	117	13479	6.24	ug/l	# 15
52) Toluene	10.25	92	5026	1.10	ug/l	97
76) 1,2,3-Trichloropropane	12.49	75	51948	50.02	ug/l	# 100
77) Bromobenzene	12.70	156	4099	2.90	ug/l	# 1
81) trans-1,4-Dichloro-2-buten	12.49	75	51948	101.05	ug/l	# 17
84) 1,2,4-Trimethylbenzene	13.13	105	15183	2.78	ug/l	99
90) Hexachloroethane	13.98	117	1260	1.15	ug/l	# 18
95) Naphthalene	15.25	128	6515	1.68	ug/l	# 76

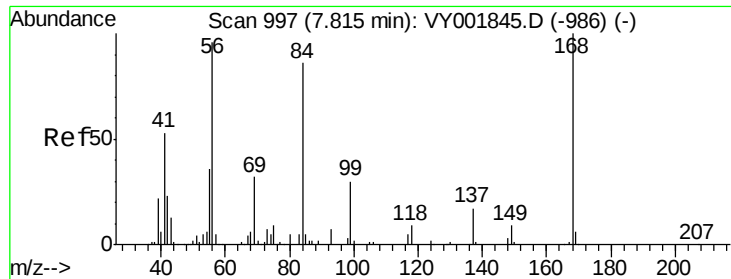
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.81 min Scan# 996

Delta R.T. -0.01 min

Lab File: VY002057.D

Acq: 24 Mar 2020 17:40

Instrument :

MSVOA_Y

ClientSampleId :

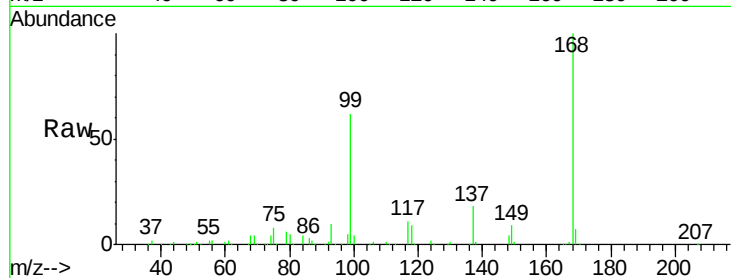
NB-08-032420

Tgt Ion:168 Resp: 132536

Ion Ratio Lower Upper

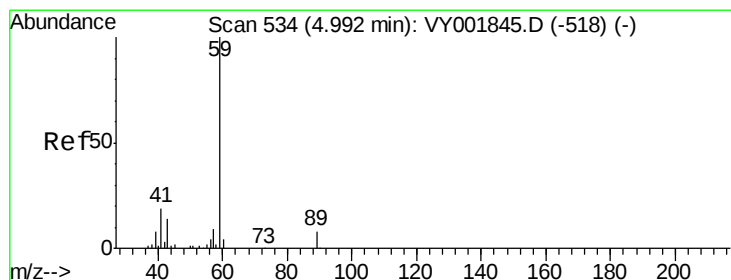
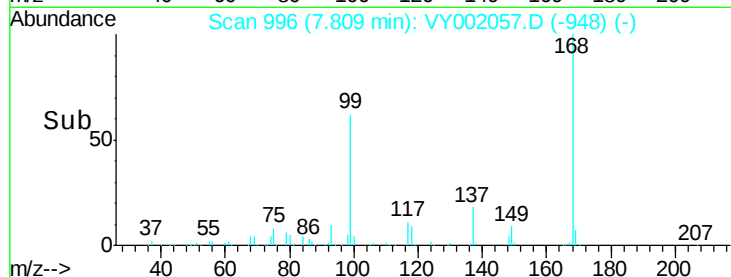
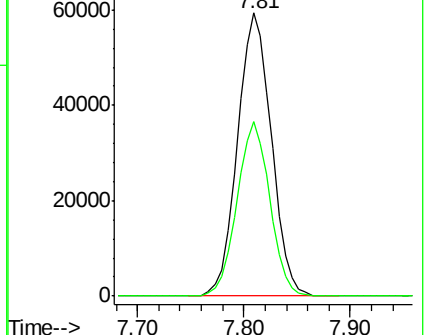
168 100

99 61.8 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): VY001845.D (-986) (-)

Ion 98.90 (98.60 to 99.60): VY001845.D (-986) (-)



#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.98 min Scan# 532

Delta R.T. -0.01 min

Lab File: VY002057.D

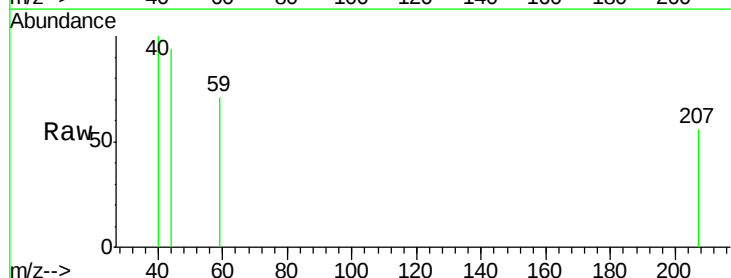
Acq: 24 Mar 2020 17:40

Tgt Ion: 59 Resp: 120

Ion Ratio Lower Upper

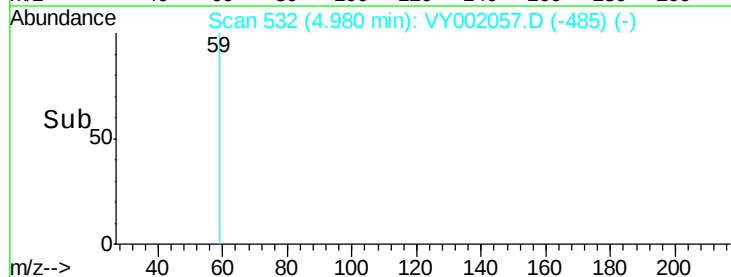
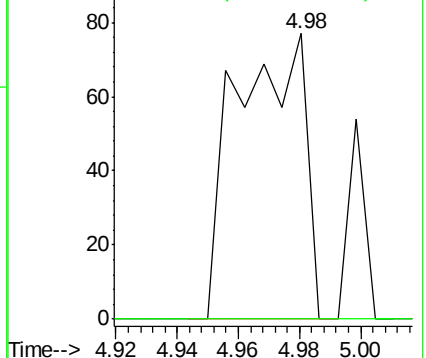
59 100

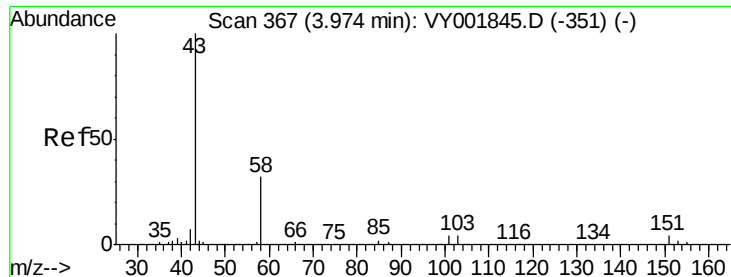
57 0.0 7.4 11.2#



Abundance Ion 59.00 (58.70 to 59.70): VY001845.D (-518) (-)

Ion 57.00 (56.70 to 57.70): VY001845.D (-518) (-)





#16

Acetone

Concen: 5.32 ug/l

RT: 3.98 min Scan# 368

Delta R.T. 0.01 min

Lab File: VY002057.D

Acq: 24 Mar 2020 17:40

Instrument :

MSVOA_Y

ClientSampleId :

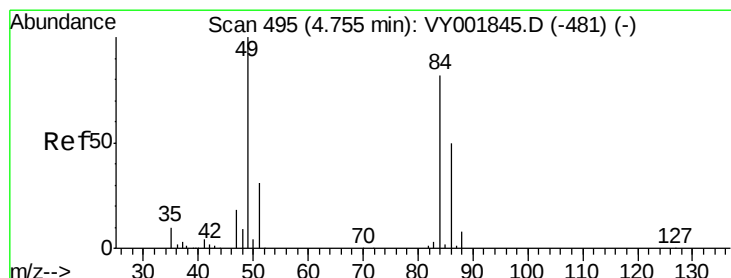
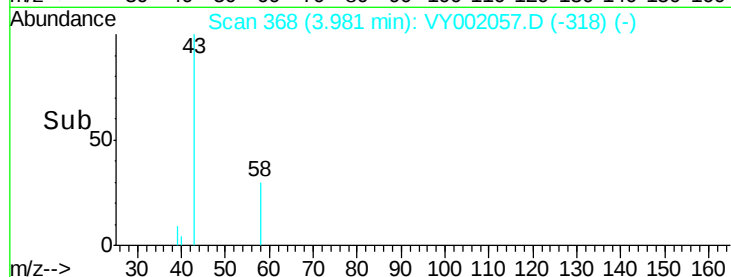
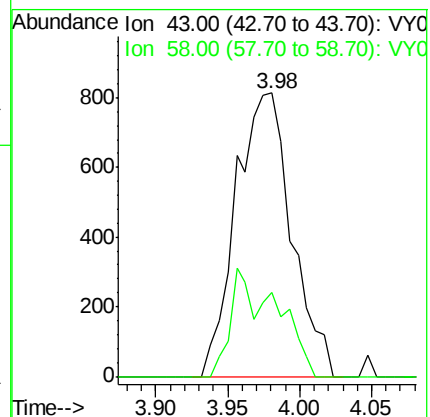
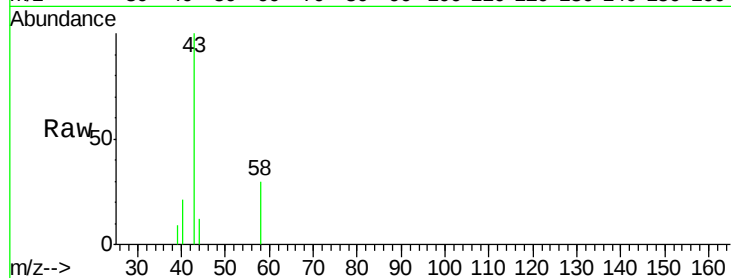
NB-08-032420

Tgt Ion: 43 Resp: 2192

Ion Ratio Lower Upper

43 100

58 29.5 25.9 38.9



#20

Methylene Chloride

Concen: 3.24 ug/l

RT: 4.75 min Scan# 494

Delta R.T. -0.01 min

Lab File: VY002057.D

Acq: 24 Mar 2020 17:40

Tgt Ion: 84 Resp: 5719

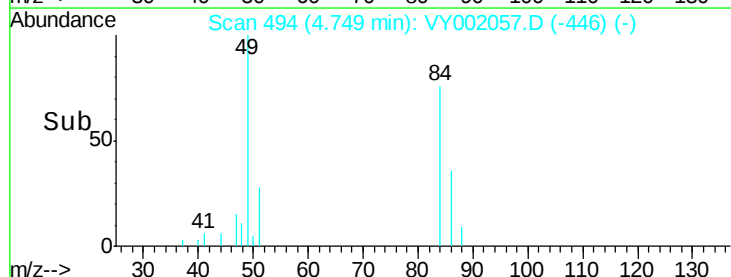
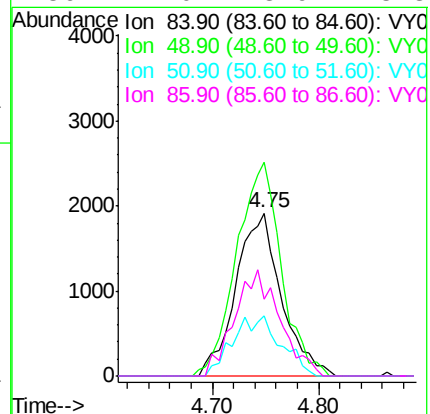
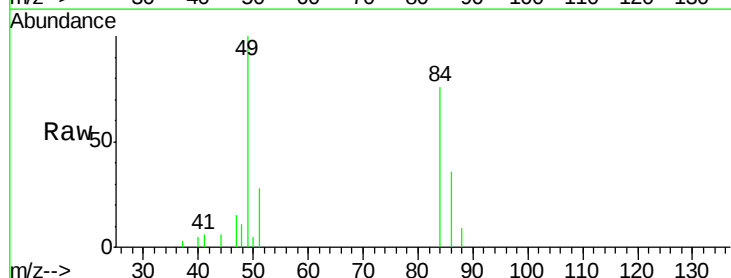
Ion Ratio Lower Upper

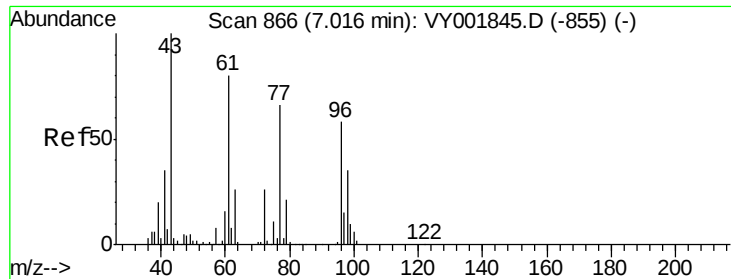
84 100

49 131.3 98.2 147.2

51 36.8 30.2 45.2

86 47.0 48.9 73.3#





#25

2-Butanone

Concen: 1.15 ug/l

RT: 7.02 min Scan# 866

Delta R.T. 0.00 min

Lab File: VY002057.D

Acq: 24 Mar 2020 17:40

Instrument :

MSVOA_Y

ClientSampleId :

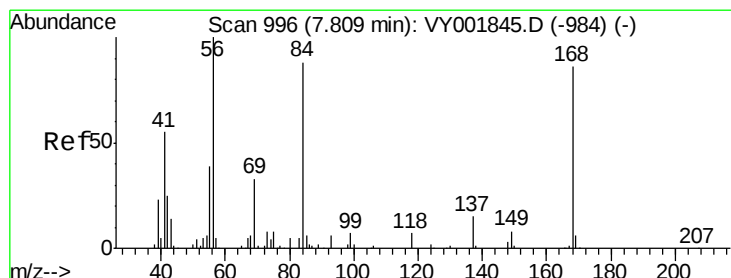
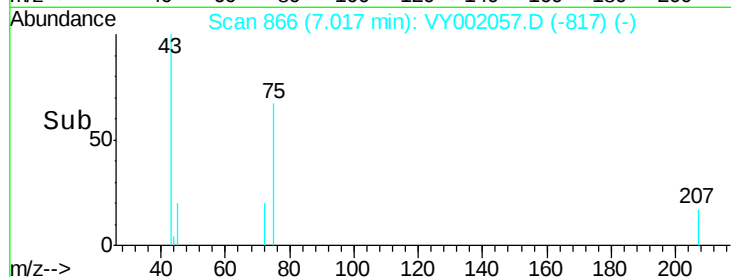
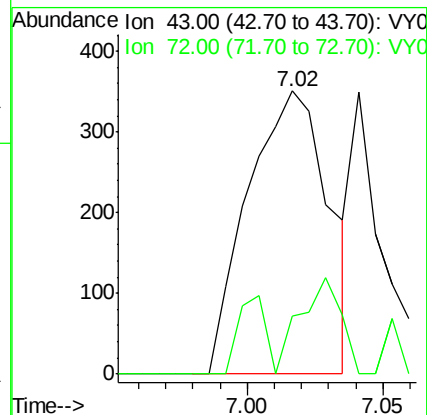
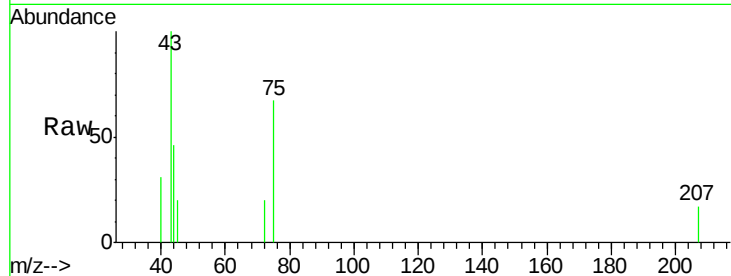
NB-08-032420

Tgt Ion: 43 Resp: 721

Ion Ratio Lower Upper

43 100

72 20.2 20.9 31.3#



#31

Cyclohexane

Concen: 1.07 ug/l

RT: 7.82 min Scan# 997

Delta R.T. 0.01 min

Lab File: VY002057.D

Acq: 24 Mar 2020 17:40

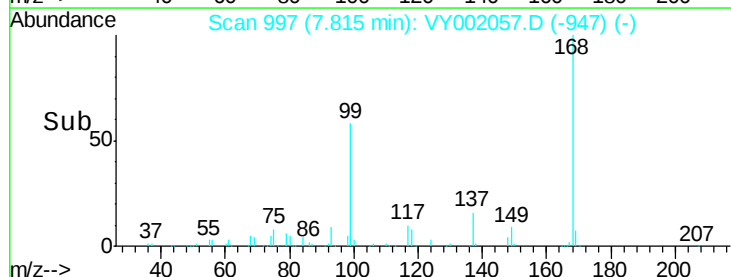
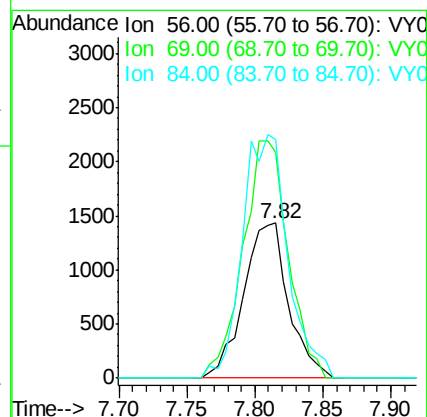
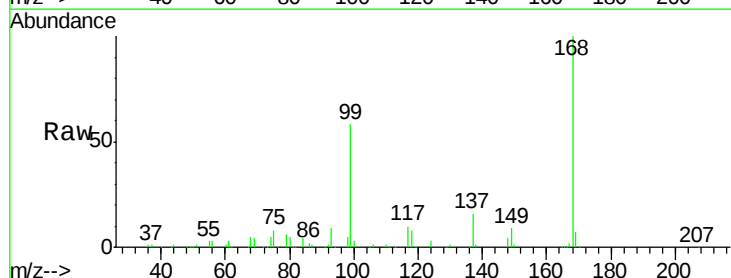
Tgt Ion: 56 Resp: 3317

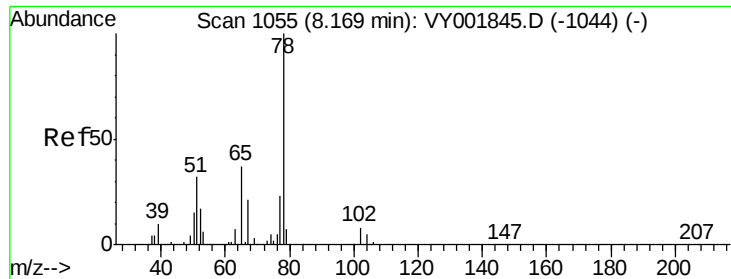
Ion Ratio Lower Upper

56 100

69 145.9 26.7 40.1#

84 153.7 70.4 105.6#





#33

1,2-Dichloroethane-d4

Concen: 61.36 ug/l

RT: 8.16 min Scan# 1053

Delta R.T. -0.01 min

Lab File: VY002057.D

Acq: 24 Mar 2020 17:40

Instrument :

MSVOA_Y

ClientSampleId :

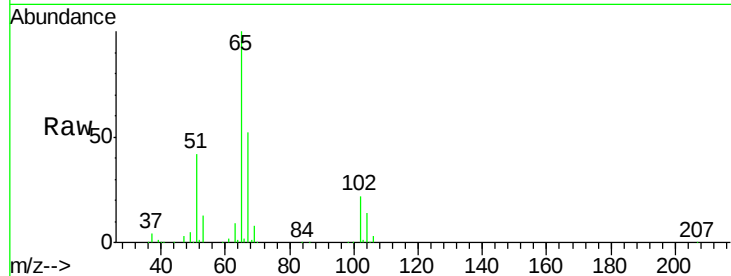
NB-08-032420

Tgt Ion: 65 Resp: 86823

Ion Ratio Lower Upper

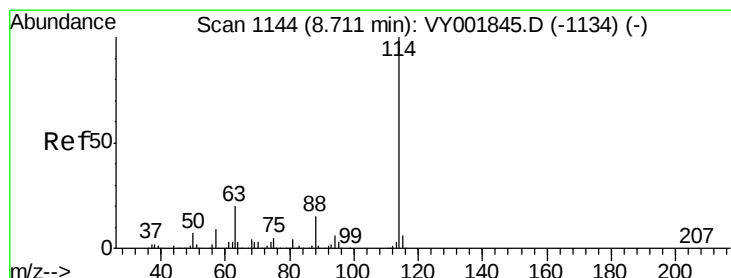
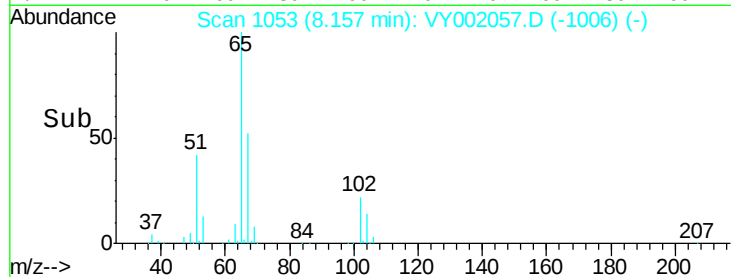
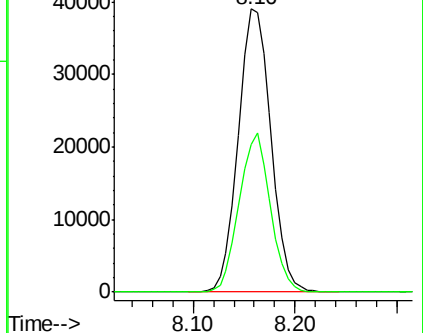
65 100

67 53.6 0.0 110.8



Abundance Ion 64.90 (64.60 to 65.60): VY0

Ion 66.90 (66.60 to 67.60): VY0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.71 min Scan# 1143

Delta R.T. -0.01 min

Lab File: VY002057.D

Acq: 24 Mar 2020 17:40

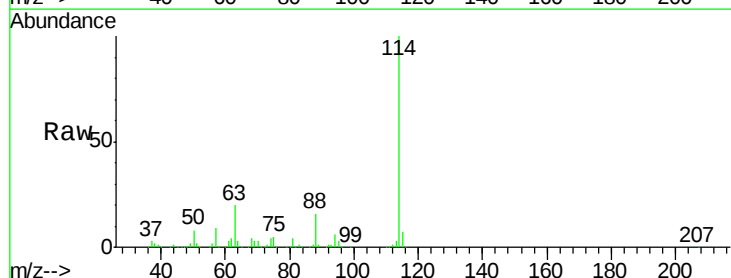
Tgt Ion: 114 Resp: 262915

Ion Ratio Lower Upper

114 100

63 20.5 0.0 39.4

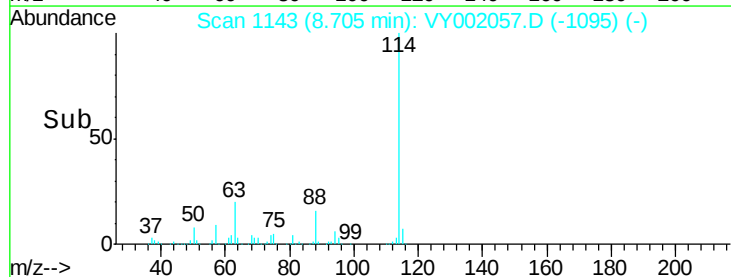
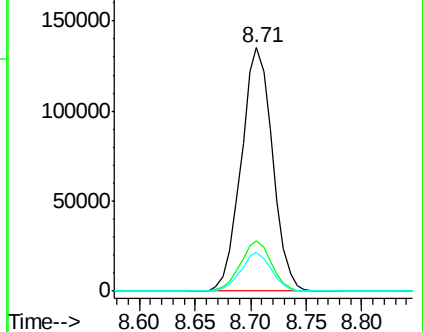
88 15.9 0.0 30.4

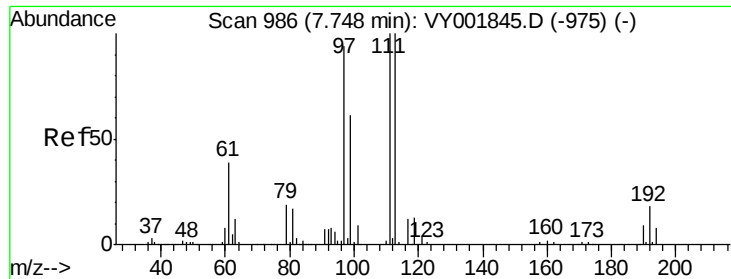


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VY0

Ion 87.90 (87.60 to 88.60): VY0

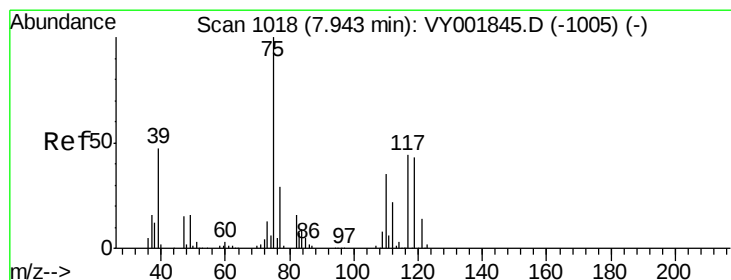
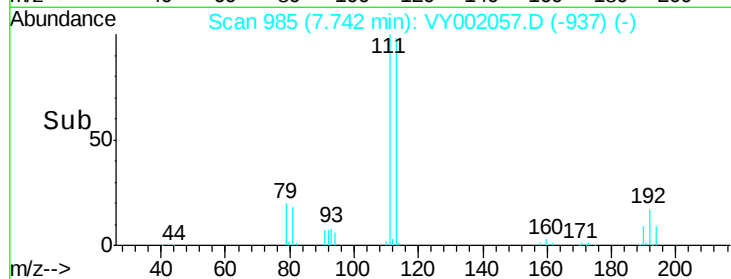
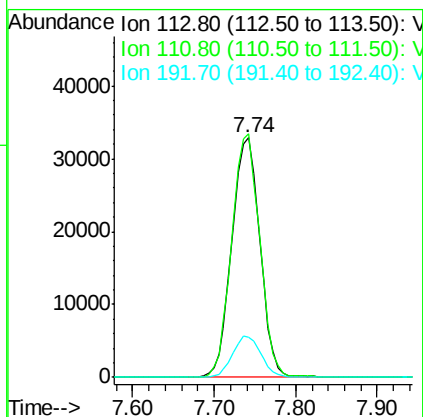
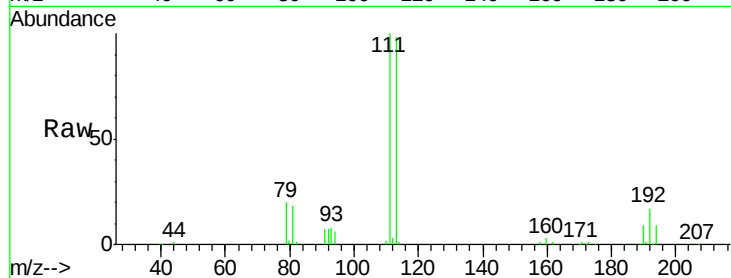




#35
 Dibromofluoromethane
 Concen: 54.59 ug/l
 RT: 7.74 min Scan# 985
 Delta R.T. -0.01 min
 Lab File: VY002057.D
 Acq: 24 Mar 2020 17:40

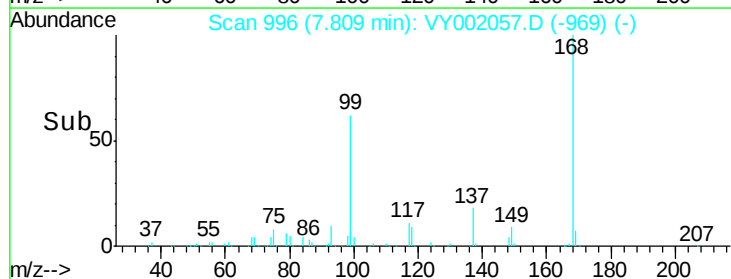
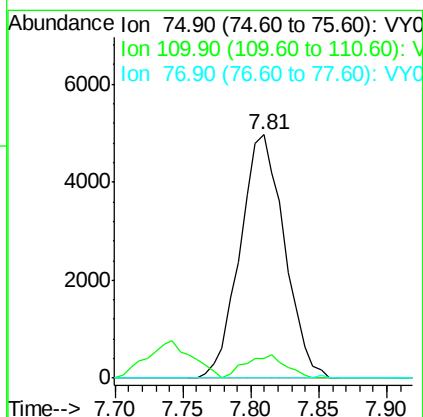
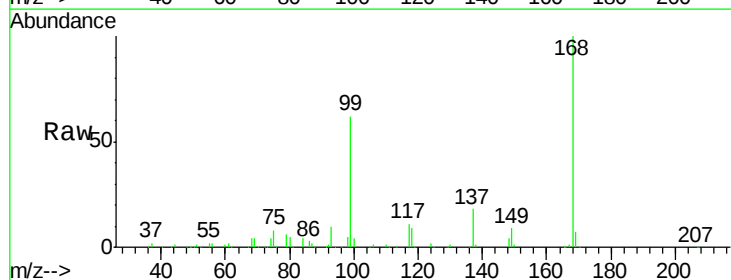
Instrument :
 MSVOA_Y
 ClientSampleId :
 NB-08-032420

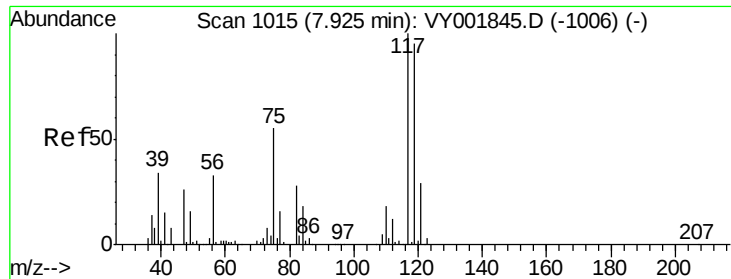
Tgt Ion:113 Resp: 78365
 Ion Ratio Lower Upper
 113 100
 111 100.8 81.8 122.8
 192 17.5 14.2 21.2



#36
 1,1-Dichloropropene
 Concen: 4.48 ug/l
 RT: 7.81 min Scan# 996
 Delta R.T. -0.13 min
 Lab File: VY002057.D
 Acq: 24 Mar 2020 17:40

Tgt Ion: 75 Resp: 11338
 Ion Ratio Lower Upper
 75 100
 110 8.8 17.4 52.2#
 77 0.0 24.2 36.2#





#38

Carbon Tetrachloride

Concen: 6.24 ug/l

RT: 7.81 min Scan# 996

Delta R.T. -0.12 min

Lab File: VY002057.D

Acq: 24 Mar 2020 17:40

Instrument :

MSVOA_Y

ClientSampleId :

NB-08-032420

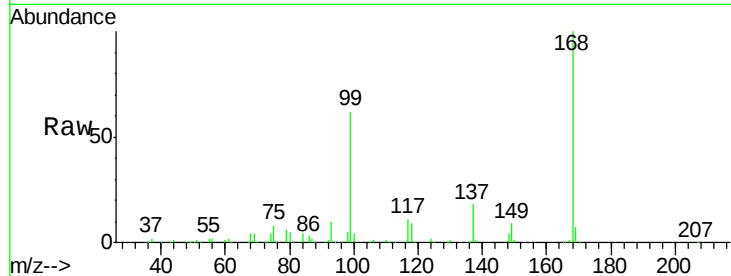
Tgt Ion:117 Resp: 13479

Ion Ratio Lower Upper

117 100

119 3.7 76.3 114.5#

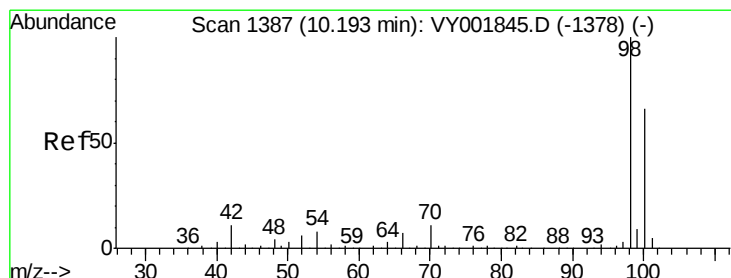
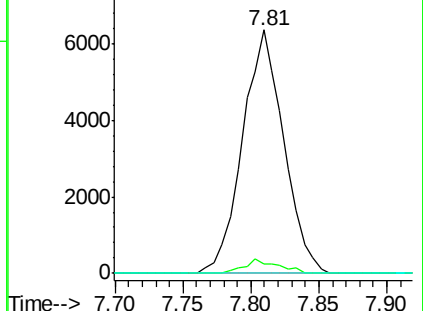
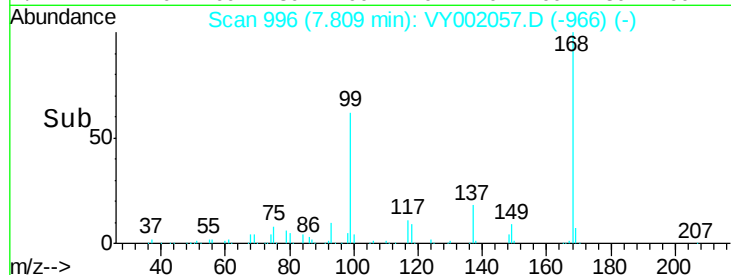
121 0.0 23.5 35.3#



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



#50

Toluene-d8

Concen: 51.95 ug/l

RT: 10.19 min Scan# 1387

Delta R.T. 0.00 min

Lab File: VY002057.D

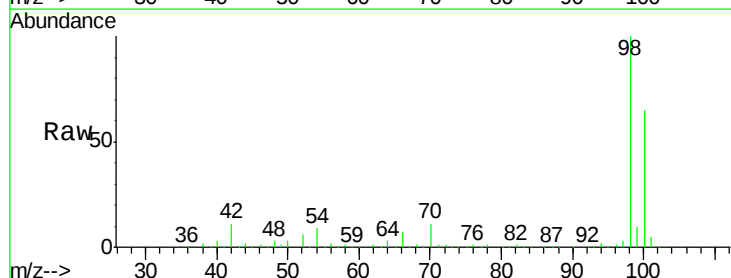
Acq: 24 Mar 2020 17:40

Tgt Ion: 98 Resp: 314503

Ion Ratio Lower Upper

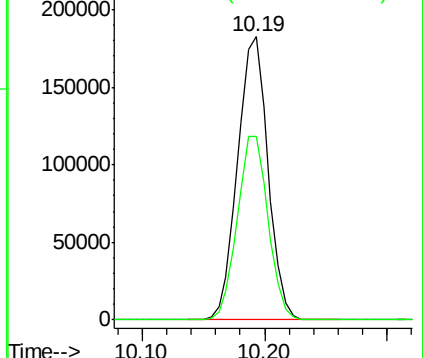
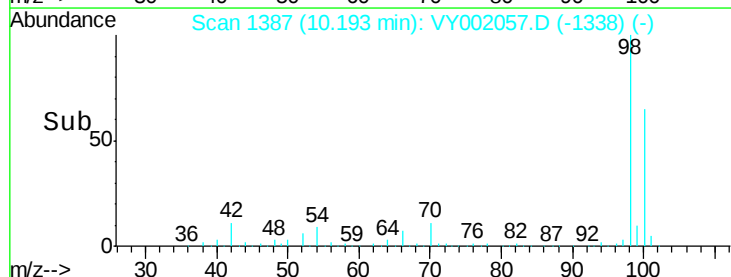
98 100

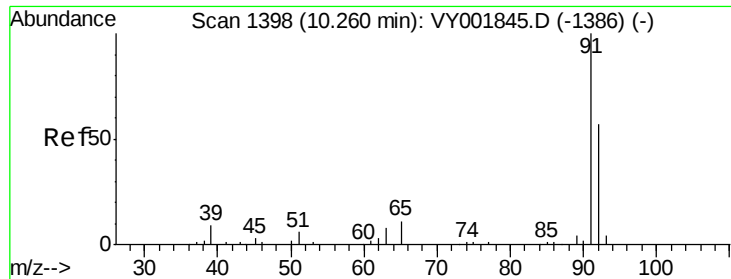
100 65.8 53.0 79.4



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY





#52

Toluene

Concen: 1.10 ug/l

RT: 10.25 min Scan# 1397

Delta R.T. -0.01 min

Lab File: VY002057.D

Acq: 24 Mar 2020 17:40

Instrument :

MSVOA_Y

ClientSampled :

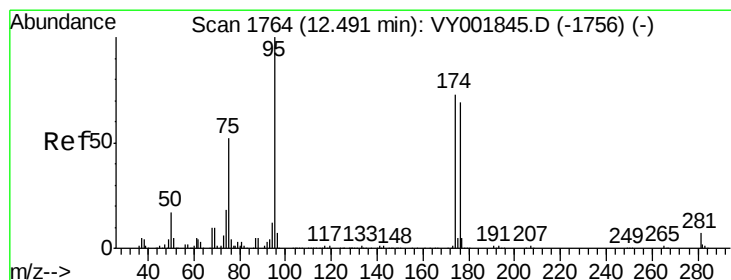
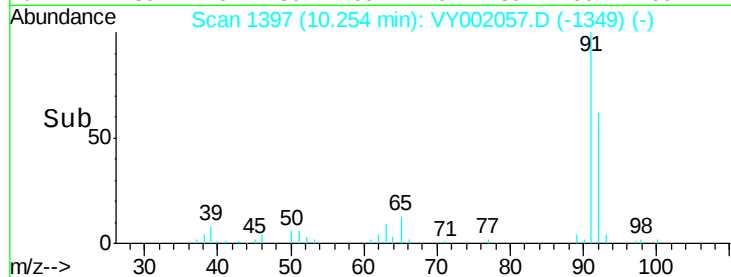
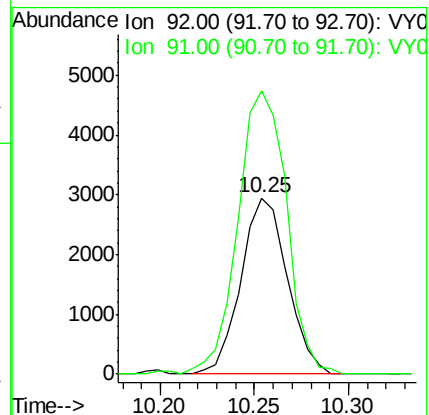
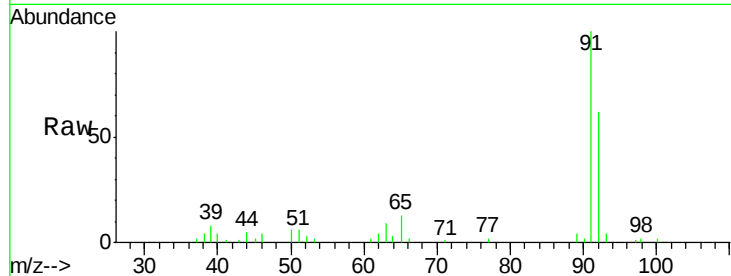
NB-08-032420

Tgt Ion: 92 Resp: 5026

Ion Ratio Lower Upper

92 100

91 169.5 138.6 208.0



#62

4-Bromofluorobenzene

Concen: 46.98 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. 0.00 min

Lab File: VY002057.D

Acq: 24 Mar 2020 17:40

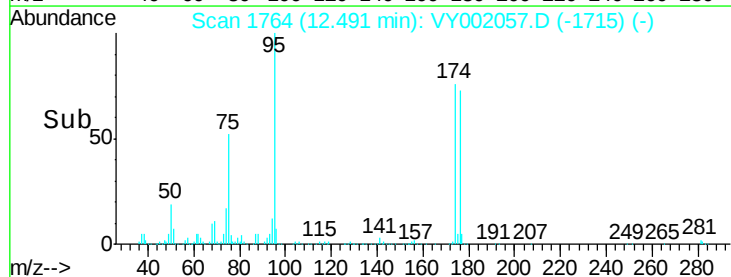
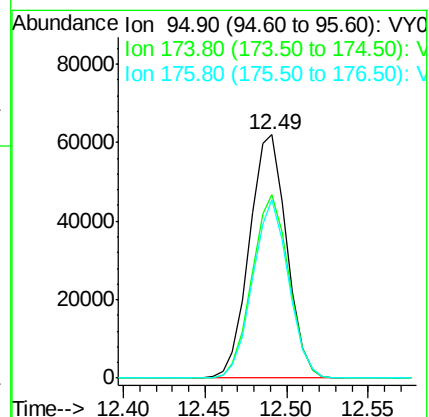
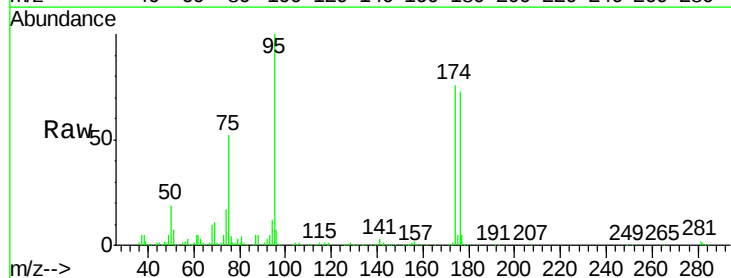
Tgt Ion: 95 Resp: 98885

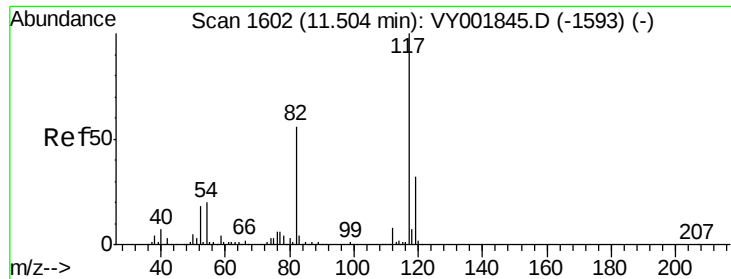
Ion Ratio Lower Upper

95 100

174 74.4 0.0 145.0

176 70.3 0.0 137.4

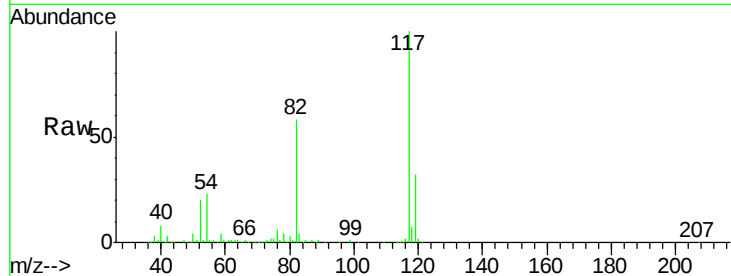




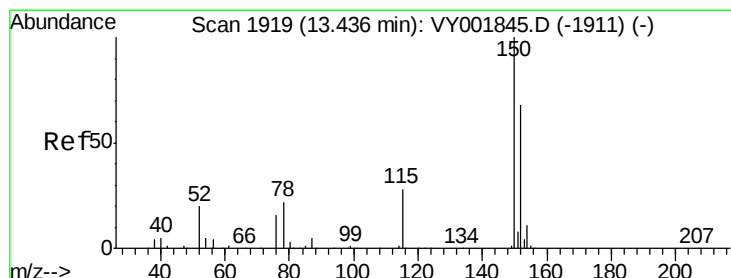
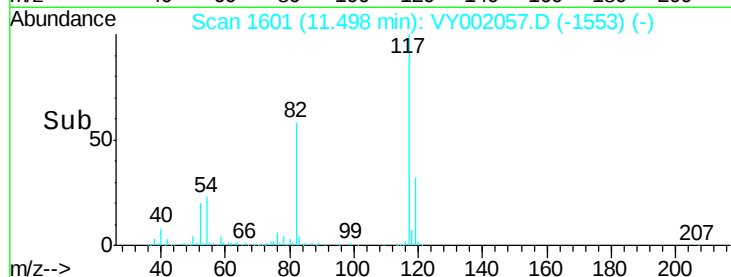
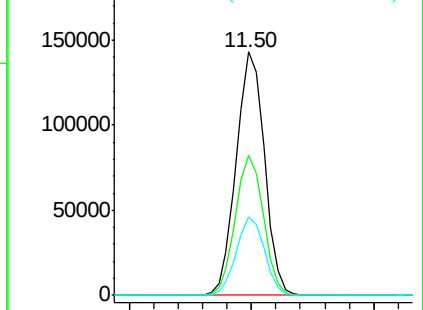
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.50 min Scan# 1601
Delta R.T. -0.01 min
Lab File: VY002057.D
Acq: 24 Mar 2020 17:40

Instrument :
MSVOA_Y
ClientSampleId :
NB-08-032420

Tgt Ion:117 Resp: 228657
Ion Ratio Lower Upper
117 100
82 57.5 44.5 66.7
119 32.5 25.7 38.5

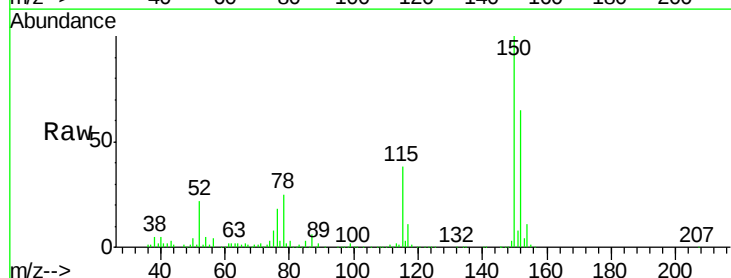


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VY0
Ion 118.90 (118.60 to 119.60): V

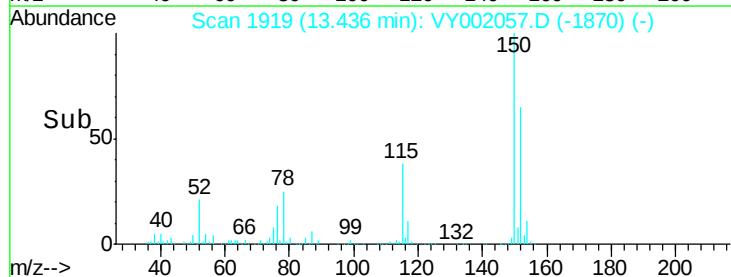
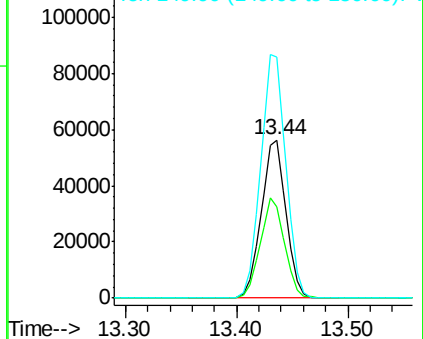


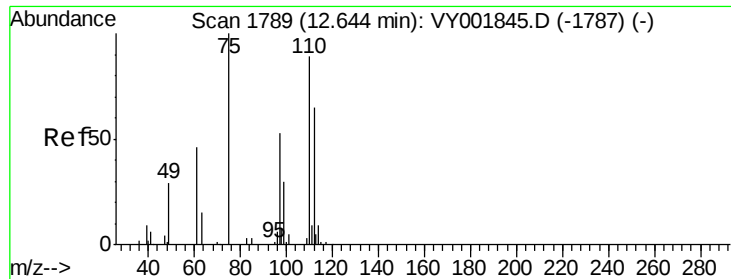
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.44 min Scan# 1919
Delta R.T. 0.00 min
Lab File: VY002057.D
Acq: 24 Mar 2020 17:40

Tgt Ion:152 Resp: 87519
Ion Ratio Lower Upper
152 100
115 62.6 29.9 89.7
150 156.5 0.0 340.6



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

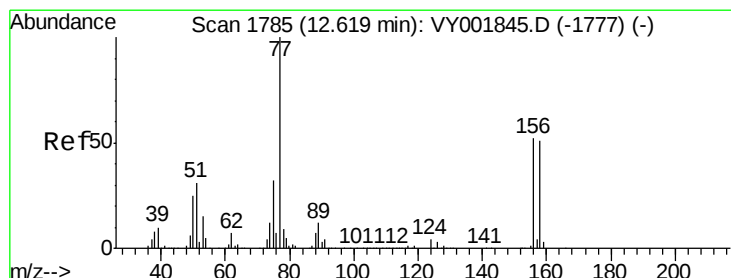
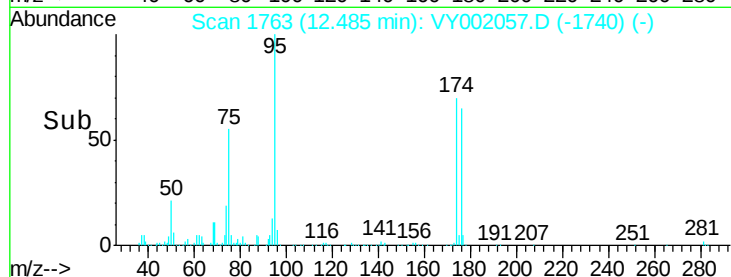
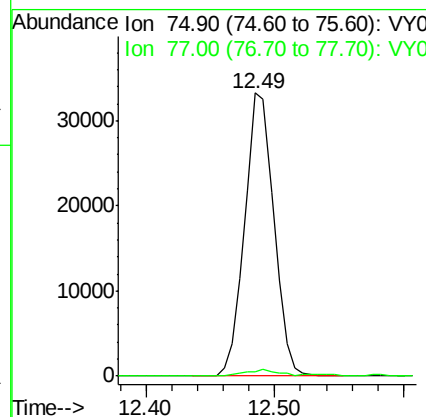
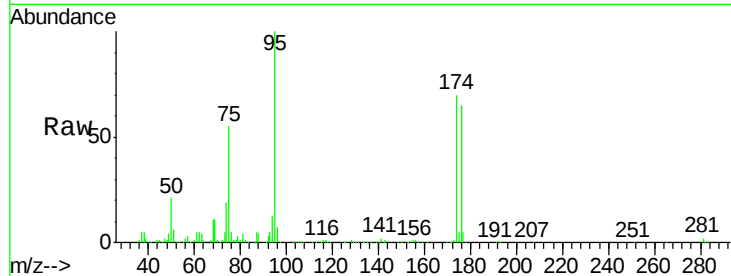




#76
 1,2,3-Trichloropropane
 Concen: 50.02 ug/l
 RT: 12.49 min Scan# 1763
 Delta R.T. -0.16 min
 Lab File: VY002057.D
 Acq: 24 Mar 2020 17:40

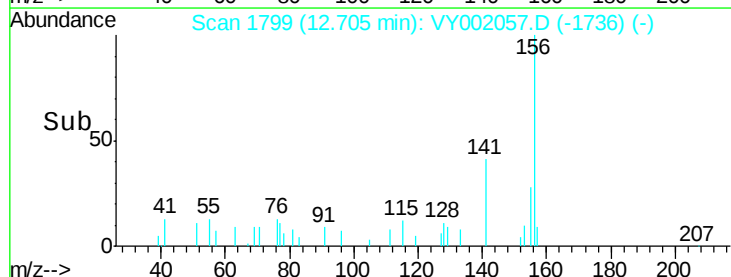
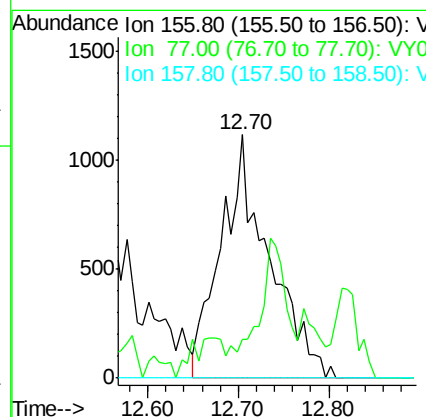
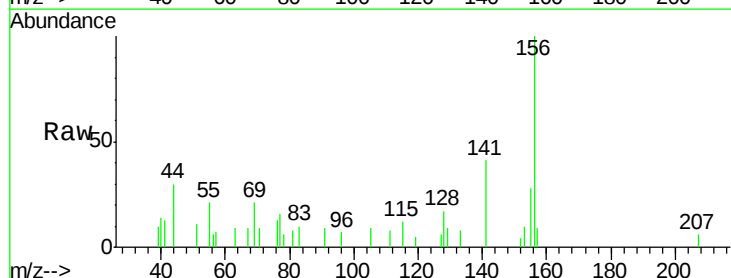
Instrument :
 MSVOA_Y
 ClientSampleId :
 NB-08-032420

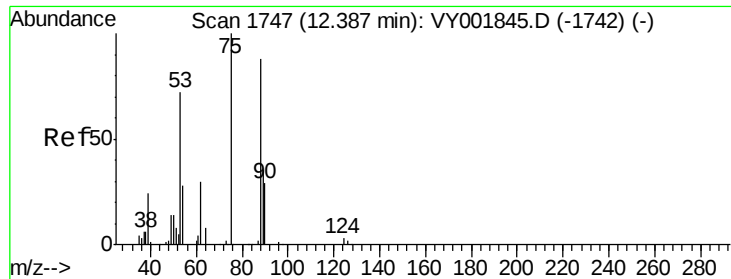
Tgt Ion: 75 Resp: 51948
 Ion Ratio Lower Upper
 75 100
 77 2.7 0.0 0.0#



#77
 Bromobenzene
 Concen: 2.90 ug/l
 RT: 12.70 min Scan# 1799
 Delta R.T. 0.09 min
 Lab File: VY002057.D
 Acq: 24 Mar 2020 17:40

Tgt Ion: 156 Resp: 4099
 Ion Ratio Lower Upper
 156 100
 77 0.0 109.0 327.0#
 158 0.0 48.9 146.8#

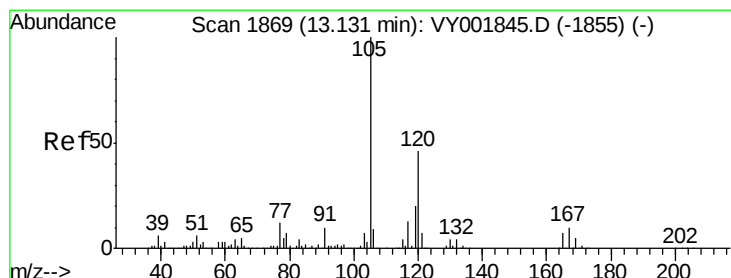
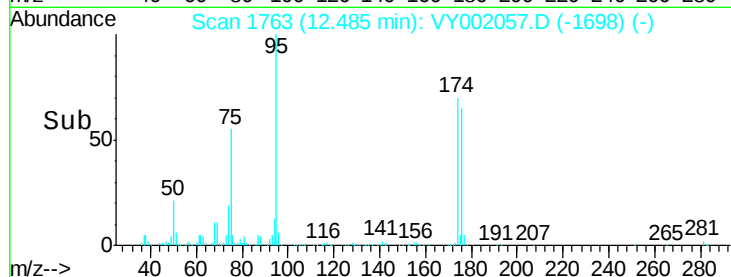
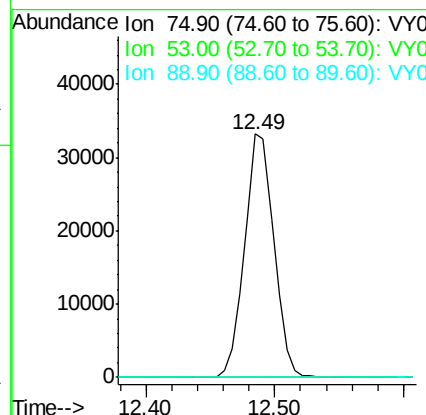
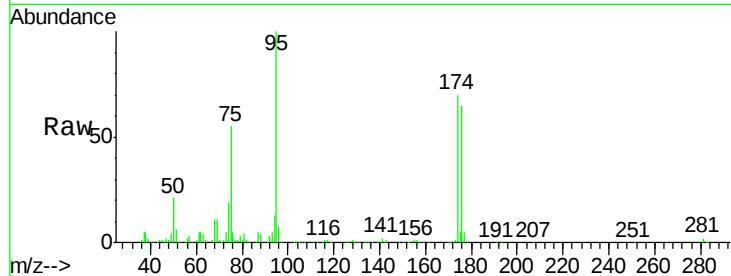




#81
trans-1,4-Dichloro-2-butene
Concen: 101.05 ug/l
RT: 12.49 min Scan# 1763
Delta R.T. 0.10 min
Lab File: VY002057.D
Acq: 24 Mar 2020 17:40

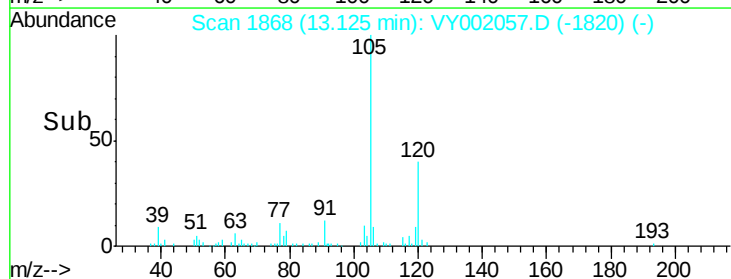
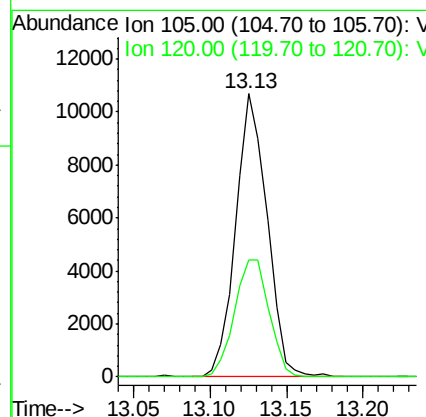
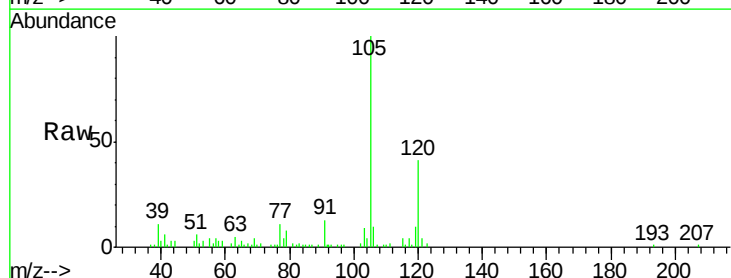
Instrument :
MSVOA_Y
ClientSampleId :
NB-08-032420

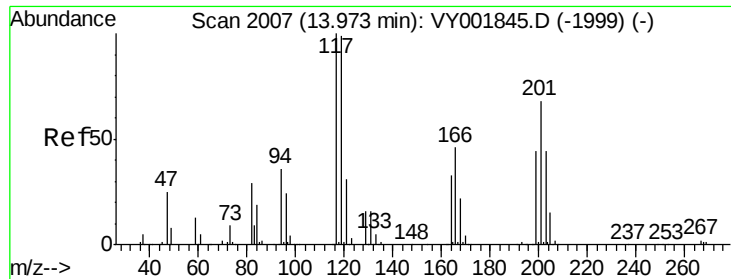
Tgt Ion: 75 Resp: 51948
Ion Ratio Lower Upper
75 100
53 0.2 65.4 98.0#
89 0.1 36.0 54.0#



#84
1,2,4-Trimethylbenzene
Concen: 2.78 ug/l
RT: 13.13 min Scan# 1868
Delta R.T. -0.01 min
Lab File: VY002057.D
Acq: 24 Mar 2020 17:40

Tgt Ion: 105 Resp: 15183
Ion Ratio Lower Upper
105 100
120 45.4 22.6 67.7





#90

Hexachloroethane

Concen: 1.15 ug/l

RT: 13.98 min Scan# 2008

Delta R.T. 0.01 min

Lab File: VY002057.D

Acq: 24 Mar 2020 17:40

Instrument :

MSVOA_Y

ClientSampleId :

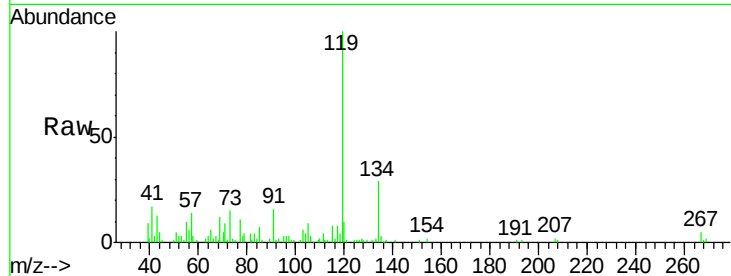
NB-08-032420

Tgt Ion:117 Resp: 1260

Ion Ratio Lower Upper

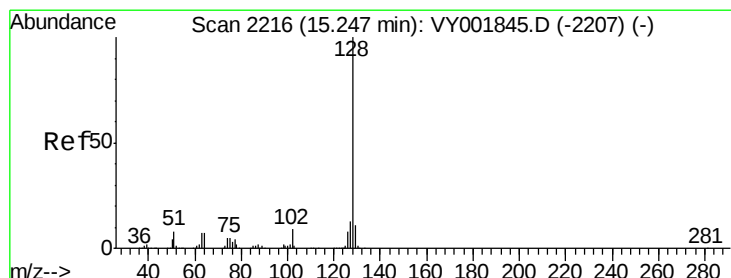
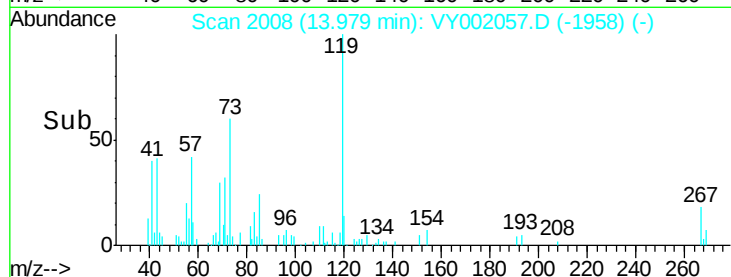
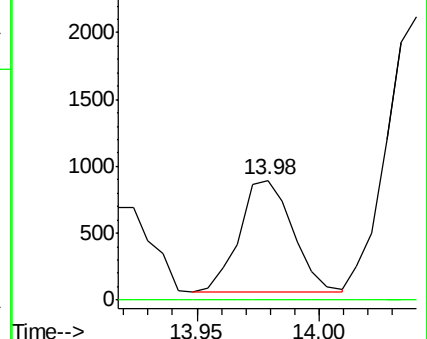
117 100

201 0.0 32.5 97.5#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#95

Naphthalene

Concen: 1.68 ug/l

RT: 15.25 min Scan# 2216

Delta R.T. 0.00 min

Lab File: VY002057.D

Acq: 24 Mar 2020 17:40

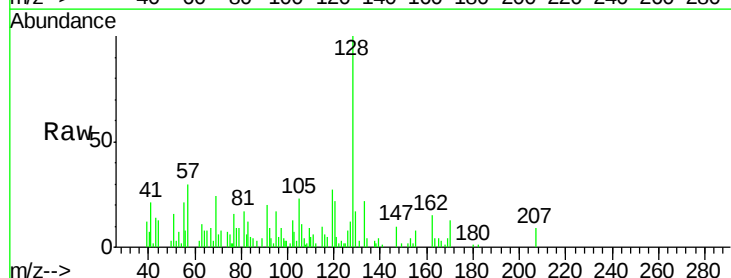
Tgt Ion:128 Resp: 6515

Ion Ratio Lower Upper

128 100

127 19.4 10.1 15.1#

129 22.6 8.6 13.0#



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

