

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD072120\
 Data File : VD065987.D
 Acq On : 21 Jul 2020 18:29
 Operator : VA/SY
 Sample : L3182-01
 Misc : 8.18G/5.00ml/MSVOA D/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 NB-08-071720

Quant Time: Jul 22 01:38:32 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D072120S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 21 12:34:13 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	271888	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	506539	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	537786	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	279945	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.33	65	145794	65.90	ug/l	0.00
Spiked Amount			Recovery	=	131.80%	
35) Dibromofluoromethane	7.92	113	164976	53.70	ug/l	0.00
Spiked Amount			Recovery	=	107.40%	
50) Toluene-d8	10.34	98	622468	54.39	ug/l	0.00
Spiked Amount			Recovery	=	108.78%	
62) 4-Bromofluorobenzene	12.64	95	242896	61.21	ug/l	0.00
Spiked Amount			Recovery	=	122.42%	

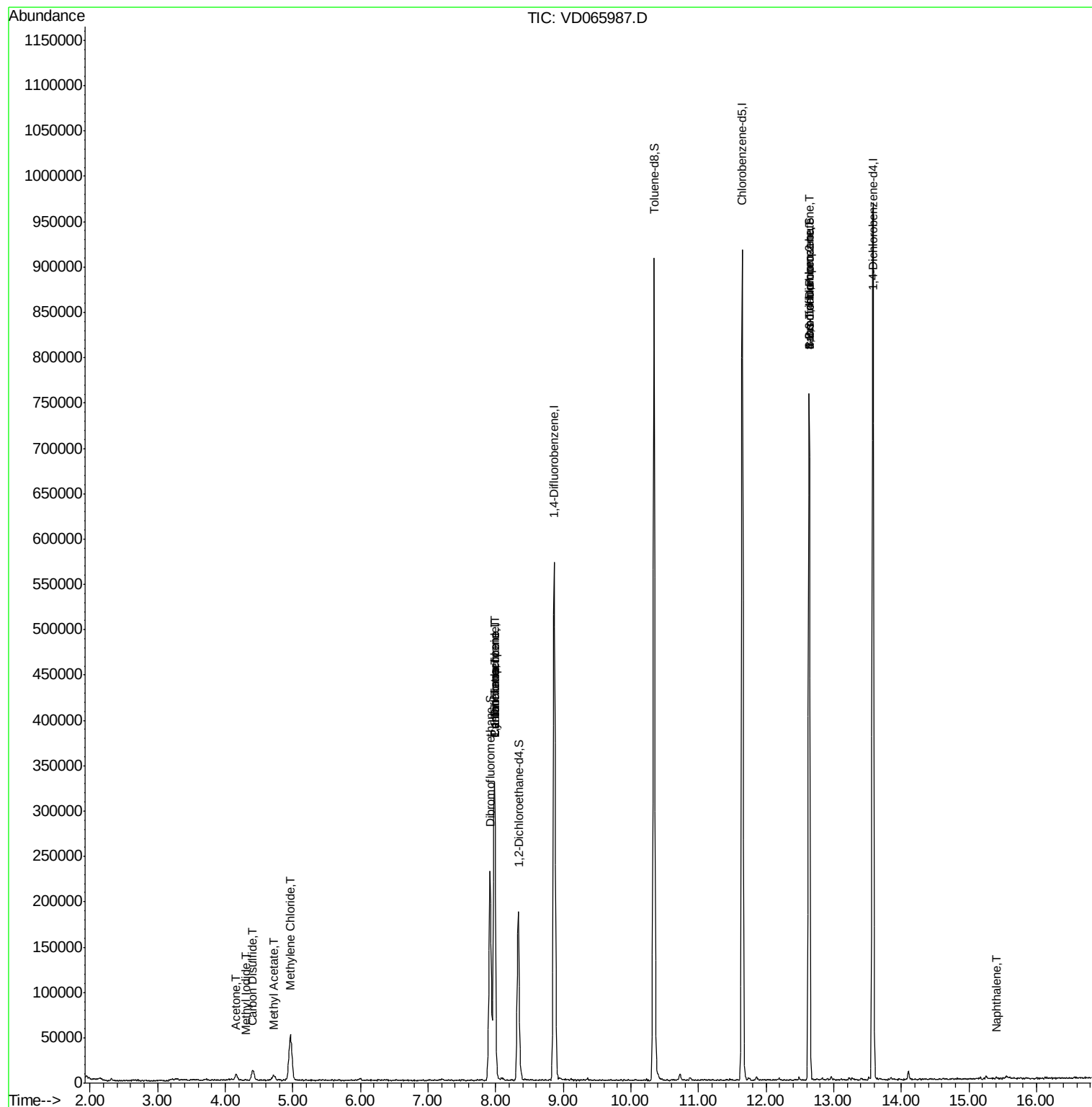
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.78	94	344	Below Cal	#	63
10) Methyl Iodide	4.30	142	336	8.929	ug/l #	42
11) Tert butyl alcohol	5.24	59	60	Below Cal	#	83
16) Acetone	4.16	43	11519	25.723	ug/l	91
17) Carbon Disulfide	4.41	76	23938	3.283	ug/l	95
18) Methyl Acetate	4.71	43	11564	11.101	ug/l #	72
20) Methylene Chloride	4.96	84	40439	14.209	ug/l	89
31) Cyclohexane	7.98	56	5733	1.441	ug/l #	1
36) 1,1-Dichloropropene	7.98	75	17310	4.004	ug/l #	50
38) Carbon Tetrachloride	7.98	117	24779	5.283	ug/l #	17
71) Bromoform	12.64	173	3111	1.461	ug/l #	1
76) 1,2,3-Trichloropropane	12.64	75	117626	55.804	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	117626	128.051	ug/l #	11
95) Naphthalene	15.41	128	1574	3.712	ug/l #	79

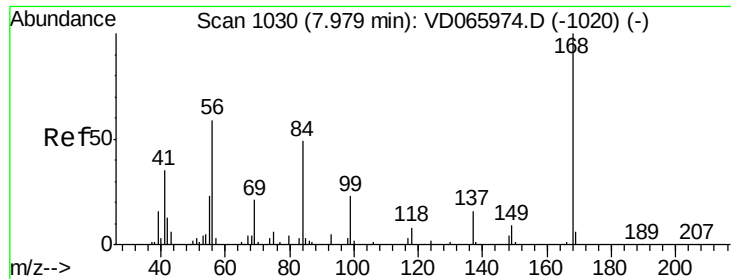
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VD065987.D

Acq: 21 Jul 2020 18:29

Instrument :

MSVOA_D

ClientSampleId :

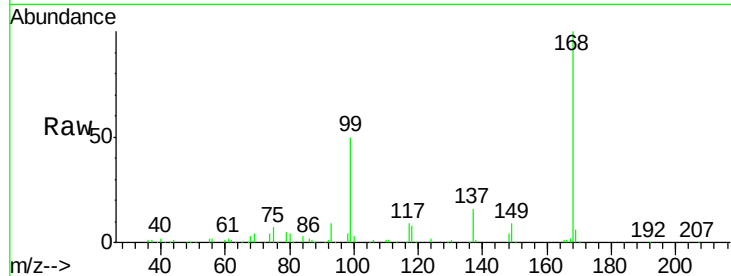
NB-08-071720

Tot Ion:168 Resp: 271888

Ion Ratio Lower Upper

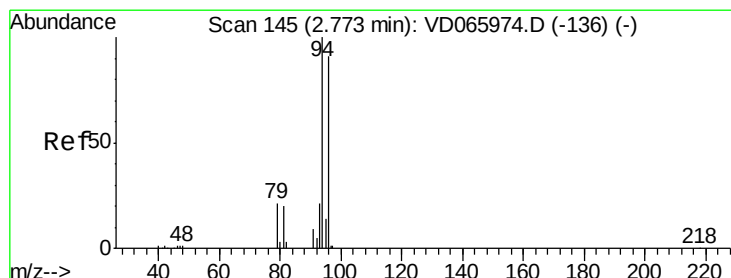
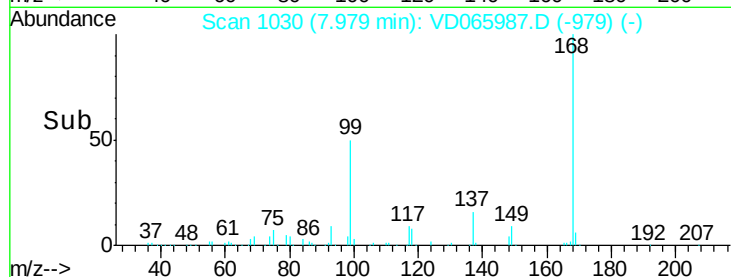
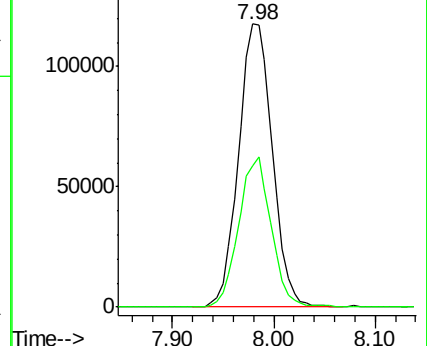
168 100

99 49.6 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#5

Bromomethane

Concen: Below Cal

RT: 2.78 min Scan# 146

Delta R.T. 0.01 min

Lab File: VD065987.D

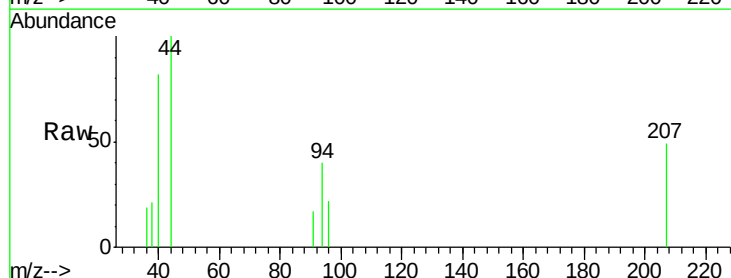
Acq: 21 Jul 2020 18:29

Tgt Ion: 94 Resp: 344

Ion Ratio Lower Upper

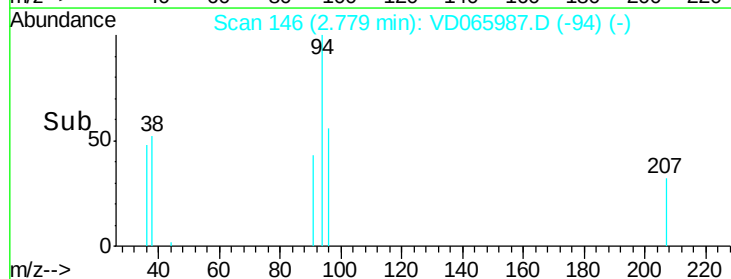
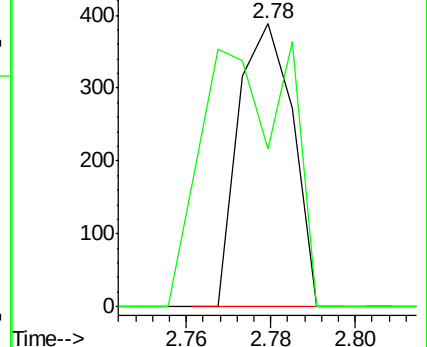
94 100

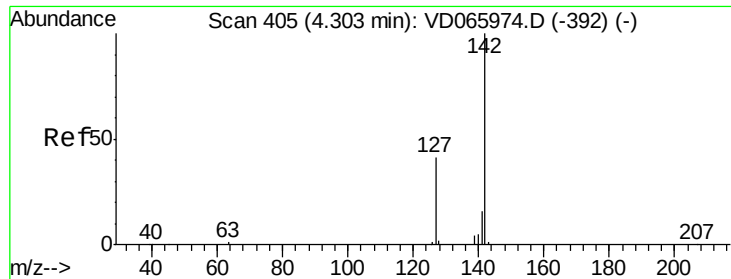
96 55.7 73.0 109.4#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

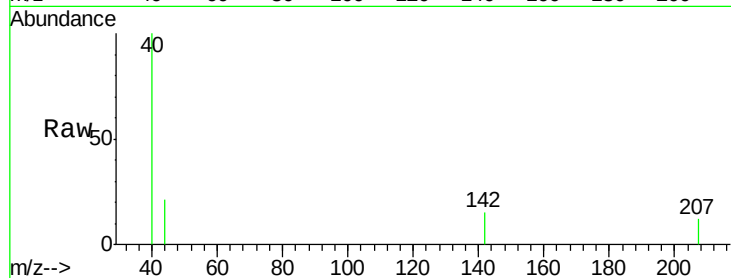




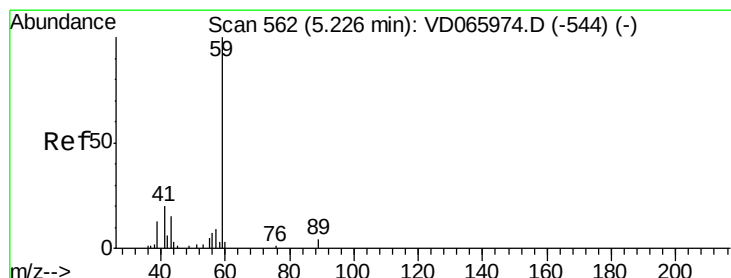
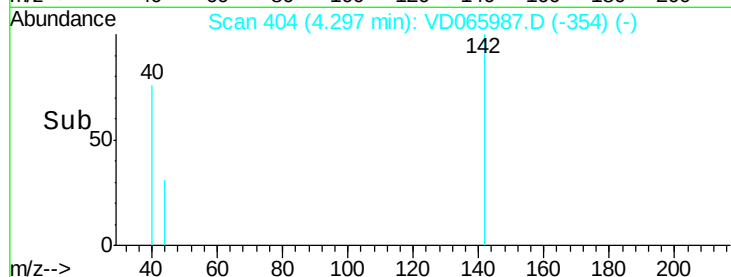
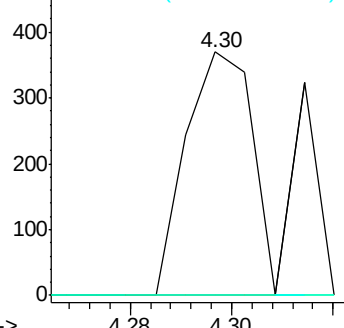
#10
Methyl Iodide
Concen: 8.929 ug/l
RT: 4.30 min Scan# 404
Delta R.T. -0.01 min
Lab File: VD065987.D
Acq: 21 Jul 2020 18:29

Instrument :
MSVOA_D
ClientSampleId :
NB-08-071720

Tot Ion:142 Resp: 336
Ion Ratio Lower Upper
142 100
127 0.0 32.9 49.3#
141 0.0 11.8 17.6#

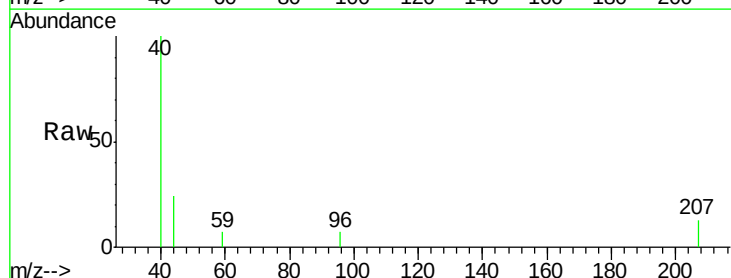


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

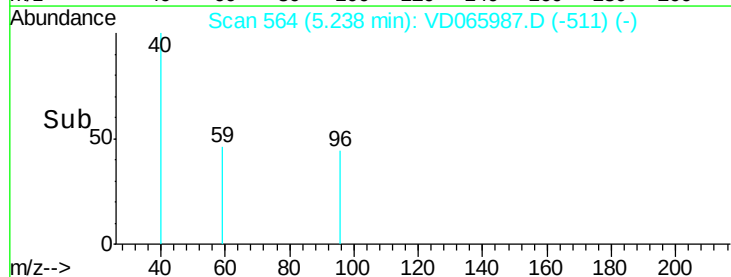
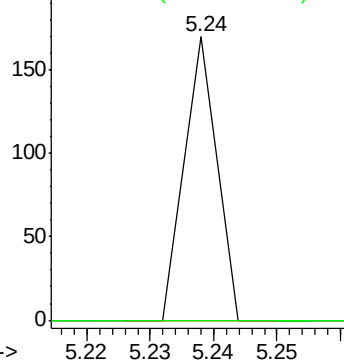


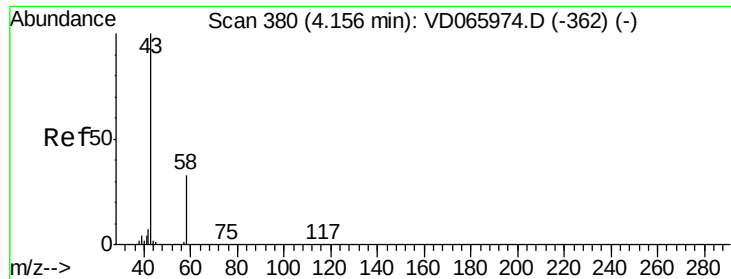
#11
Tert butyl alcohol
Concen: Below Cal
RT: 5.24 min Scan# 564
Delta R.T. 0.01 min
Lab File: VD065987.D
Acq: 21 Jul 2020 18:29

Tgt Ion: 59 Resp: 60
Ion Ratio Lower Upper
59 100
57 0.0 4.5 6.7#



Abundance Ion 59.00 (58.70 to 59.70): V
Ion 57.00 (56.70 to 57.70): V





#16

Acetone

Concen: 25.723 ug/l

RT: 4.16 min Scan# 381

Delta R.T. 0.01 min

Lab File: VD065987.D

Acq: 21 Jul 2020 18:29

Instrument :

MSVOA_D

ClientSampleId :

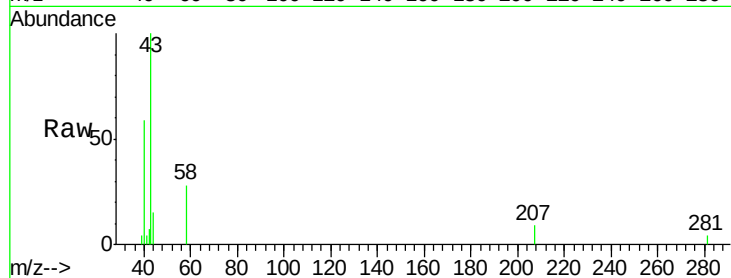
NB-08-071720

Tot Ion: 43 Resp: 11519

Ion Ratio Lower Upper

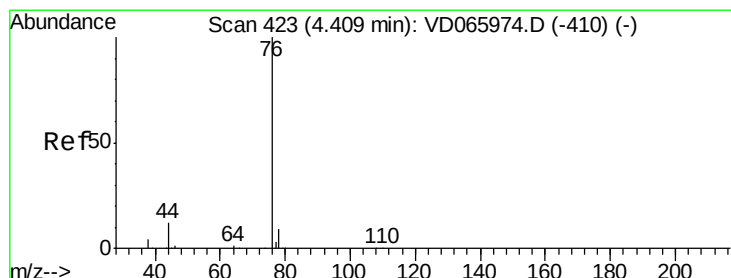
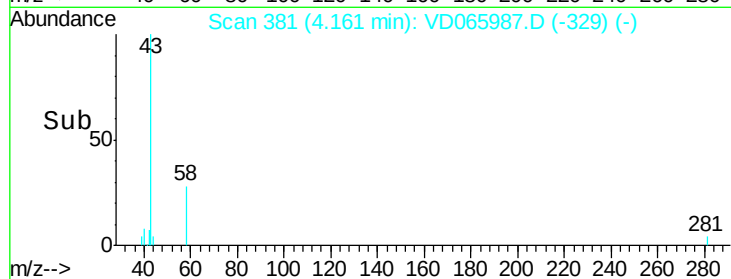
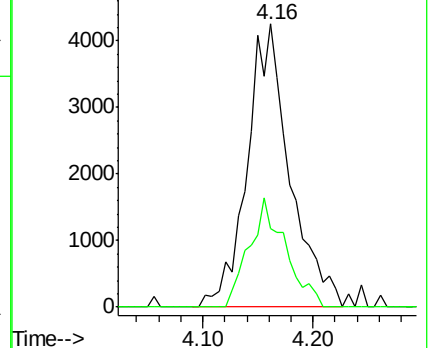
43 100

58 28.0 26.3 39.5



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#17

Carbon Disulfide

Concen: 3.283 ug/l

RT: 4.41 min Scan# 423

Delta R.T. -0.00 min

Lab File: VD065987.D

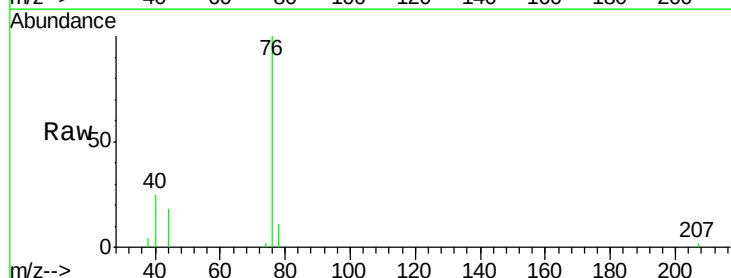
Acq: 21 Jul 2020 18:29

Tgt Ion: 76 Resp: 23938

Ion Ratio Lower Upper

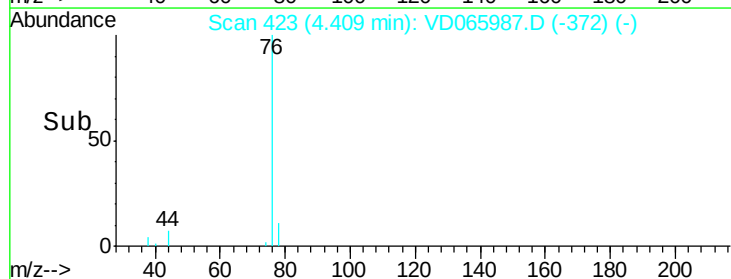
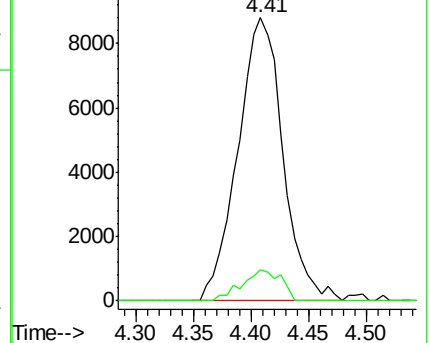
76 100

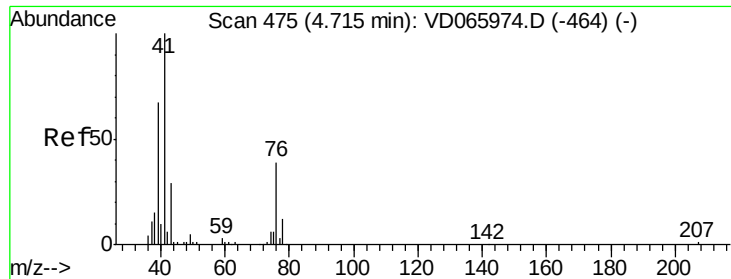
78 11.0 7.4 11.2



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC

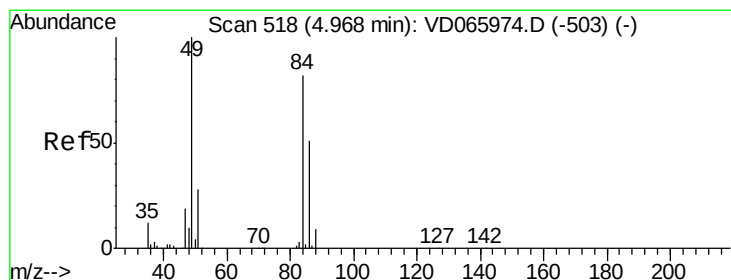
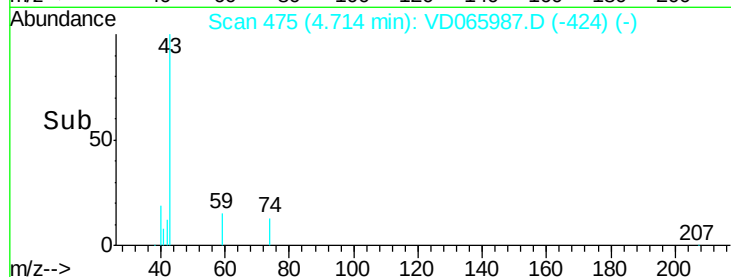
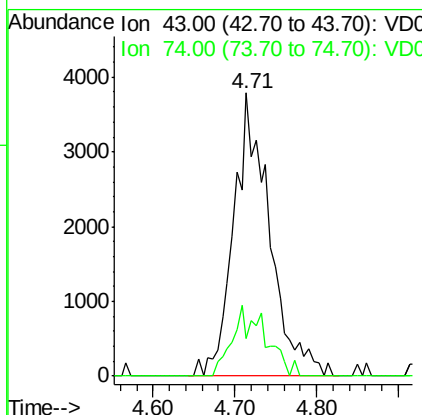
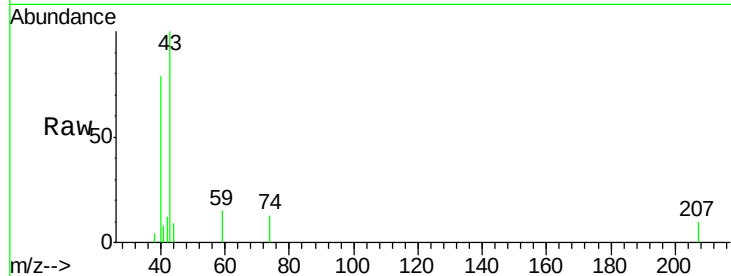




#18
Methvl Acetate
Concen: 11.101 ug/l
RT: 4.71 min Scan# 475
Delta R.T. -0.00 min
Lab File: VD065987.D
Acq: 21 Jul 2020 18:29

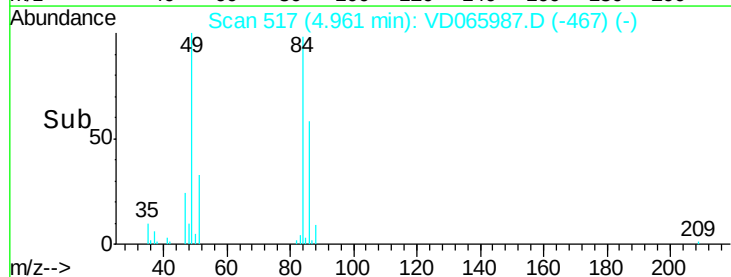
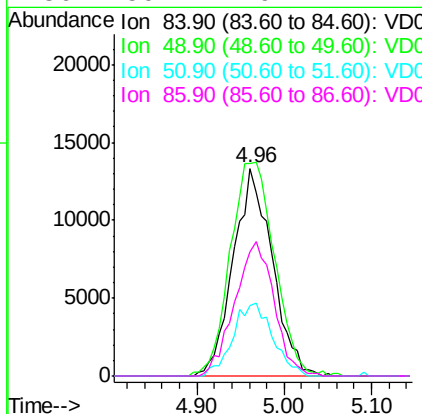
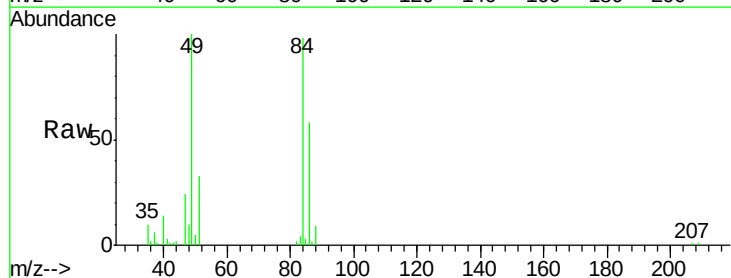
Instrument :
MSVOA_D
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NB-08-071720

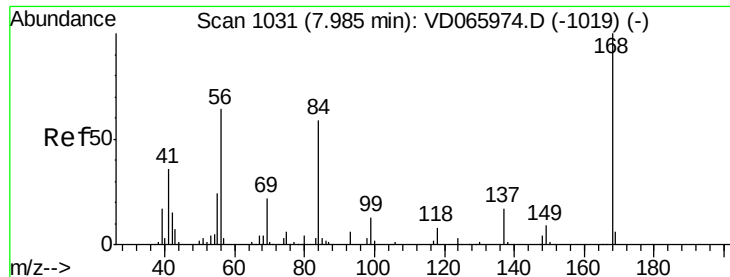
Tot Ion: 43 Resp: 11564
Ion Ratio Lower Upper
43 100
74 10.2 19.2 28.8#



#20
Methylene Chloride
Concen: 14.209 ug/l
RT: 4.96 min Scan# 517
Delta R.T. -0.01 min
Lab File: VD065987.D
Acq: 21 Jul 2020 18:29

Tgt Ion: 84 Resp: 40439
Ion Ratio Lower Upper
84 100
49 102.5 97.7 146.5
51 33.7 27.4 41.2
86 59.7 49.4 74.2

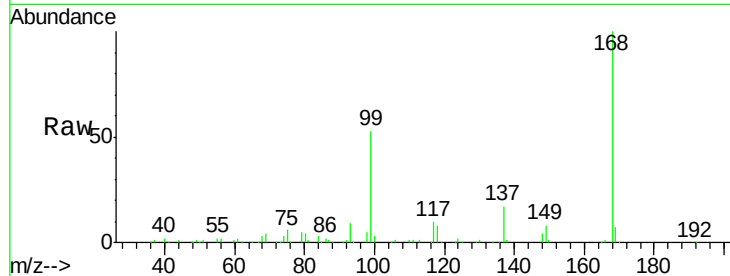




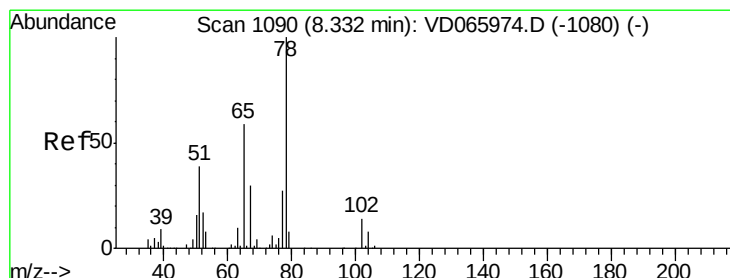
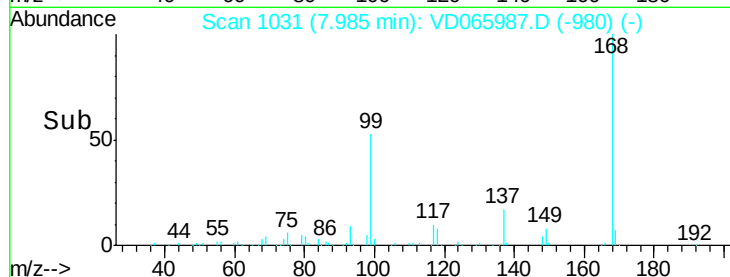
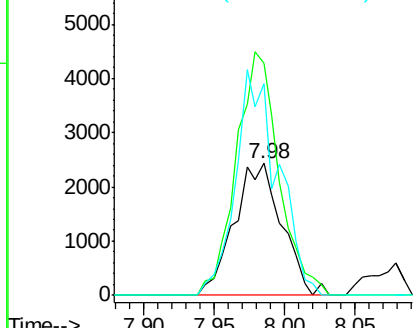
#31
Cyclohexane
Concen: 1.441 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.00 min
Lab File: VD065987.D
Acq: 21 Jul 2020 18:29

Instrument :
MSVOA_D
ClientSampleId :
NB-08-071720

Tot Ion: 56 Resp: 5733
Ion Ratio Lower Upper
56 100
69 175.4 28.0 42.0#
84 170.3 72.6 109.0#

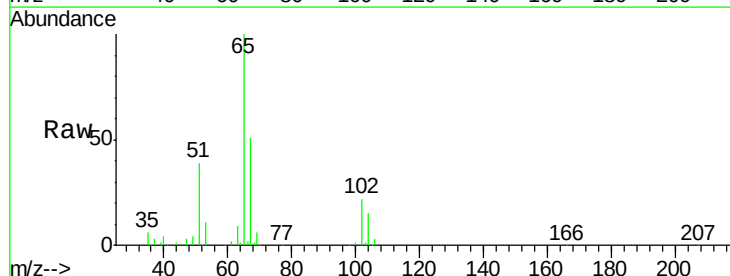


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

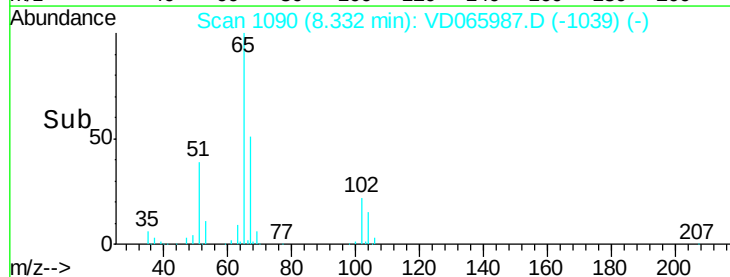
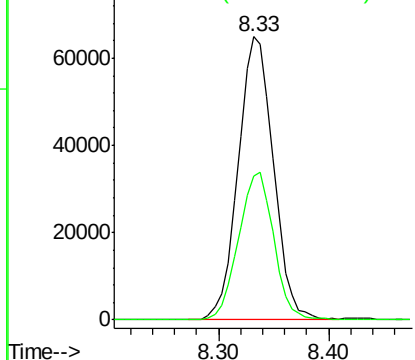


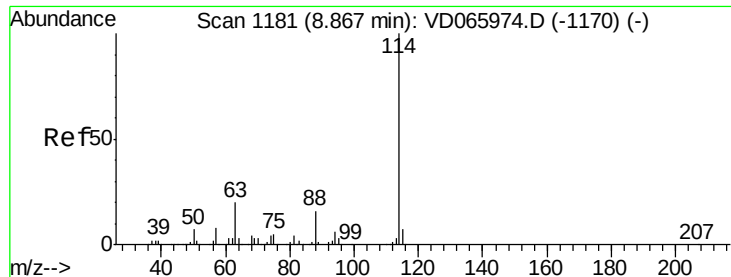
#33
1,2-Dichloroethane-d4
Concen: 65.901 ug/l
RT: 8.33 min Scan# 1090
Delta R.T. -0.00 min
Lab File: VD065987.D
Acq: 21 Jul 2020 18:29

Tgt Ion: 65 Resp: 145794
Ion Ratio Lower Upper
65 100
67 52.1 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VDC
Ion 66.90 (66.60 to 67.60): VDC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. -0.00 min

Lab File: VD065987.D

Acq: 21 Jul 2020 18:29

Instrument :

MSVOA_D

ClientSampleId :

NB-08-071720

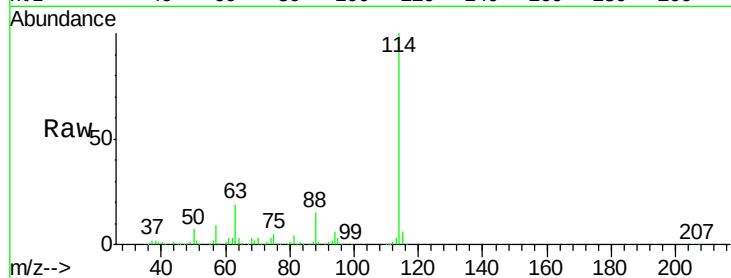
Tot Ion:114 Resp: 506539

Ion Ratio Lower Upper

114 100

63 18.8 0.0 39.6

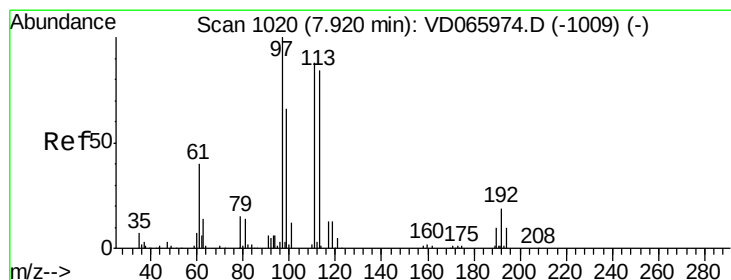
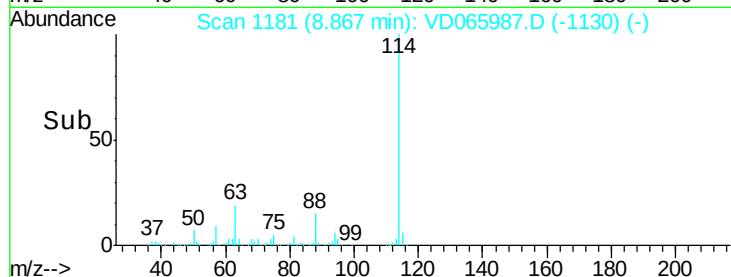
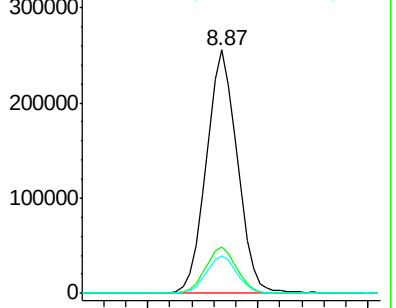
88 15.2 0.0 31.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 53.698 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. -0.00 min

Lab File: VD065987.D

Acq: 21 Jul 2020 18:29

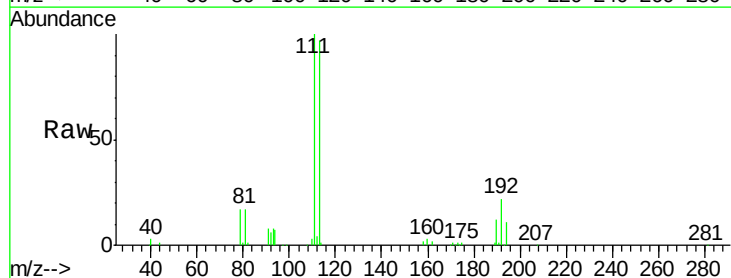
Tgt Ion:113 Resp: 164976

Ion Ratio Lower Upper

113 100

111 103.1 83.2 124.8

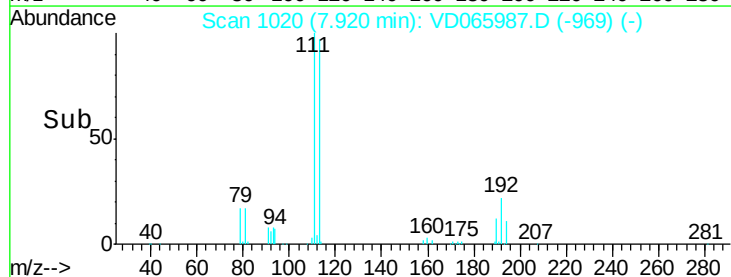
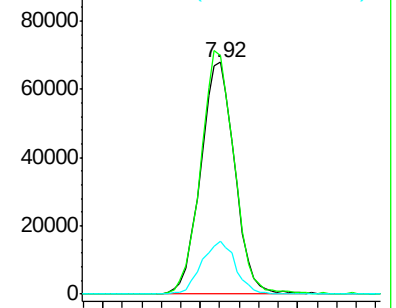
192 22.7 18.7 28.1

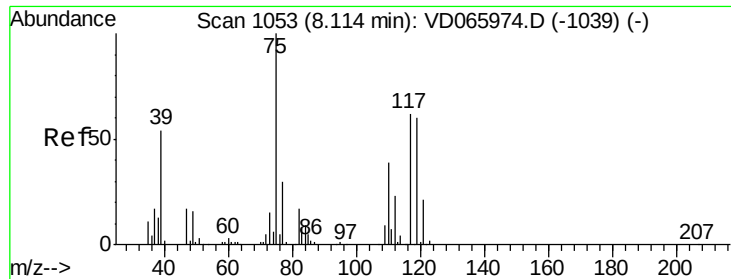


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.004 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.14 min

Lab File: VD065987.D

Acq: 21 Jul 2020 18:29

Instrument :

MSVOA_D

ClientSampleId :

NB-08-071720

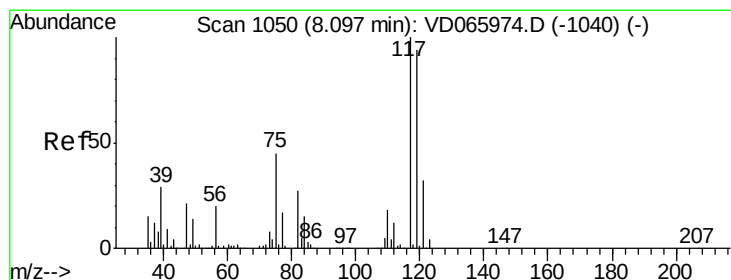
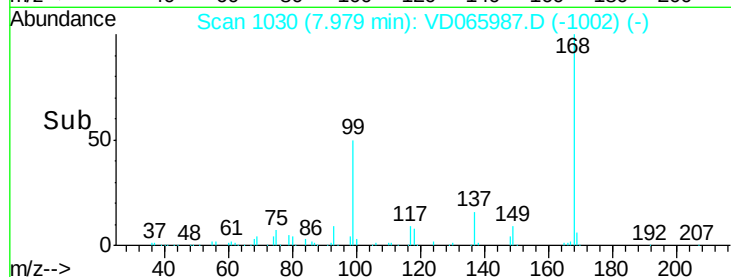
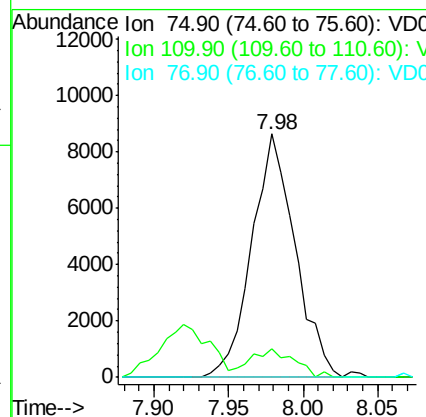
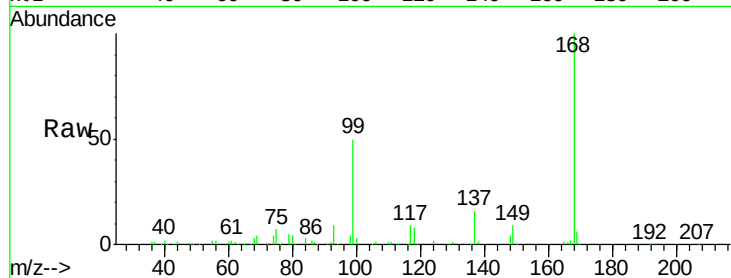
Tot Ion: 75 Resp: 17310

Ion Ratio Lower Upper

75 100

110 11.5 19.5 58.5#

77 0.0 24.7 37.1#



#38

Carbon Tetrachloride

Concen: 5.283 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.11 min

Lab File: VD065987.D

Acq: 21 Jul 2020 18:29

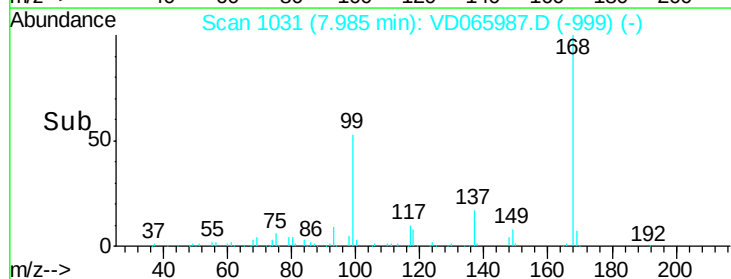
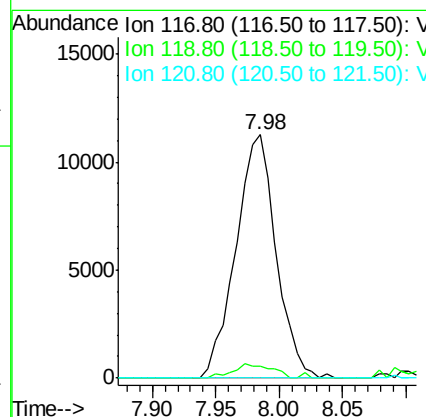
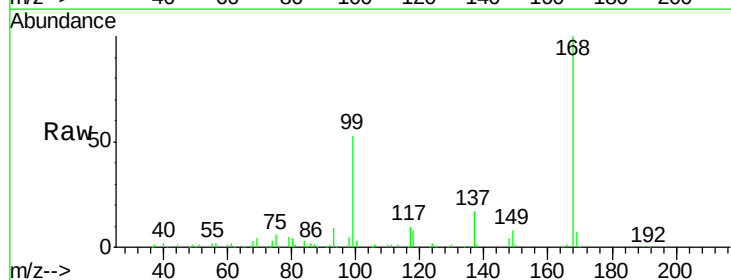
Tgt Ion: 117 Resp: 24779

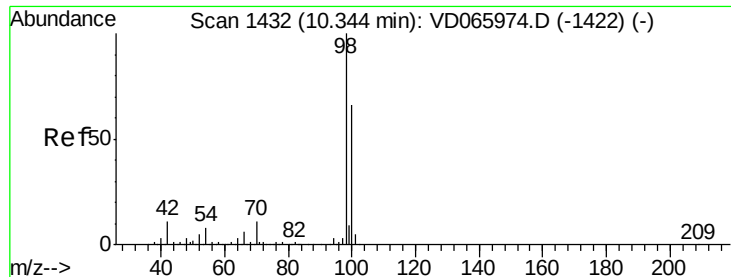
Ion Ratio Lower Upper

117 100

119 4.7 75.0 112.6#

121 0.0 25.5 38.3#

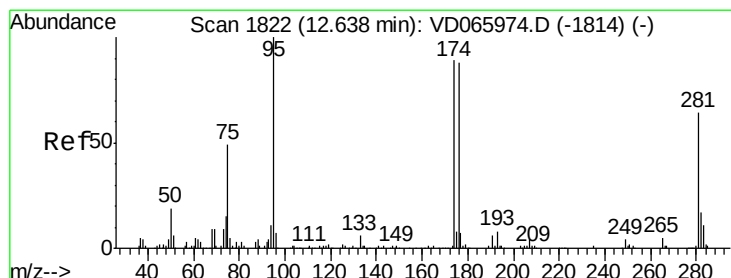
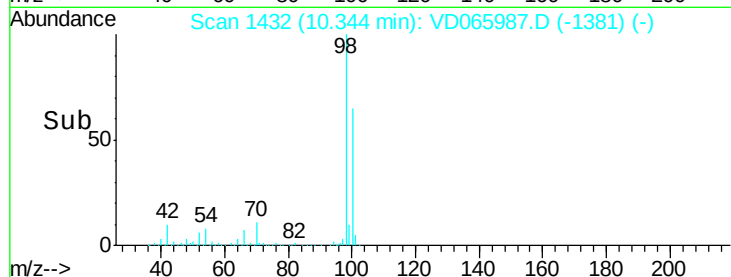
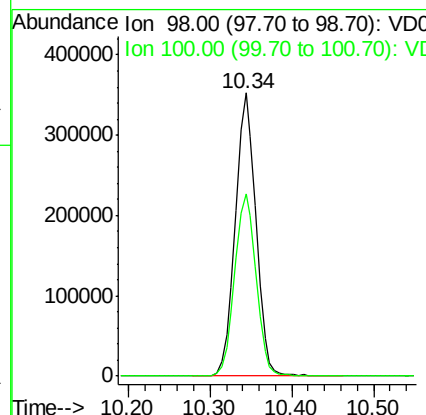
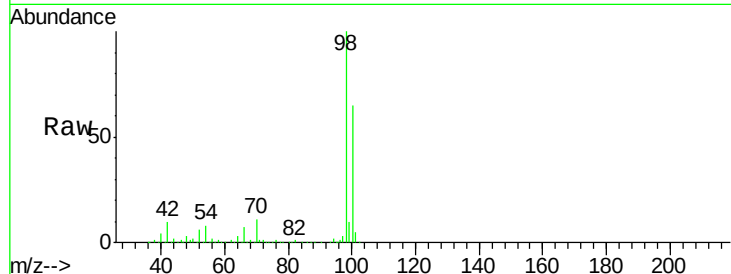




#50
Toluene-d8
Concen: 54.387 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. -0.00 min
Lab File: VD065987.D
Acq: 21 Jul 2020 18:29

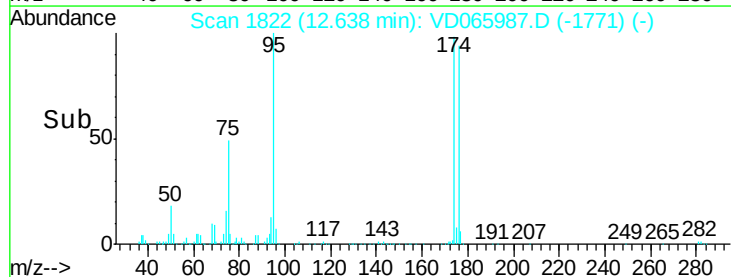
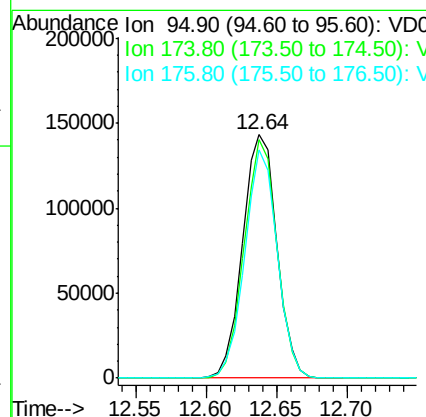
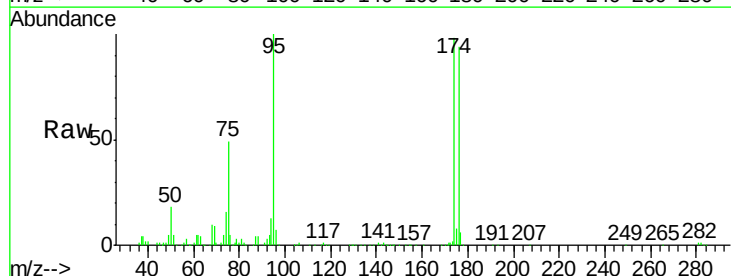
Instrument :
MSVOA_D
ClientSampleId :
NB-08-071720

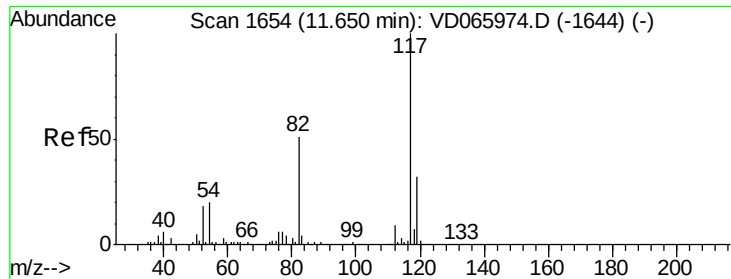
Tot Ion: 98 Resp: 622468
Ion Ratio Lower Upper
98 100
100 66.6 52.7 79.1



#62
4-Bromofluorobenzene
Concen: 61.206 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. -0.00 min
Lab File: VD065987.D
Acq: 21 Jul 2020 18:29

Tgt Ion: 95 Resp: 242896
Ion Ratio Lower Upper
95 100
174 93.9 0.0 178.8
176 89.0 0.0 172.6

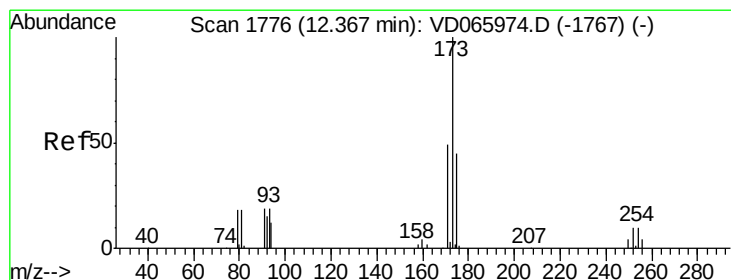
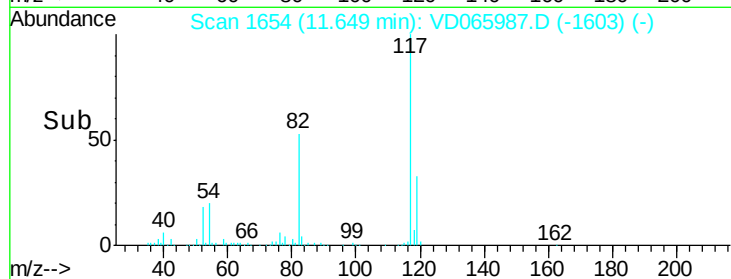
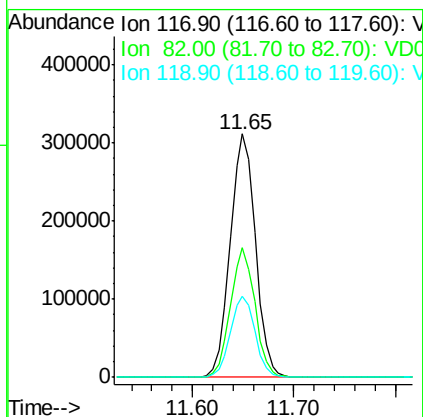
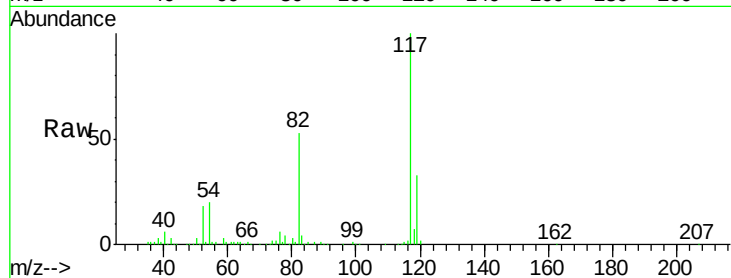




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VD065987.D
Acq: 21 Jul 2020 18:29

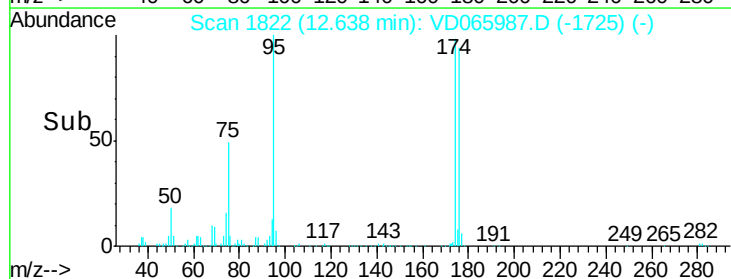
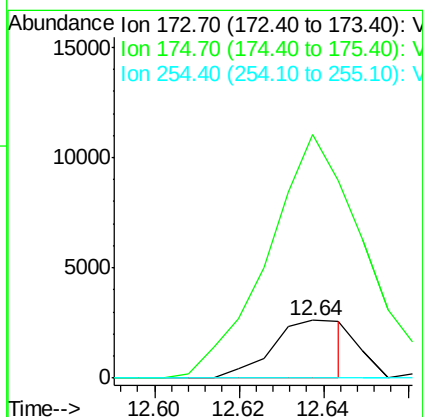
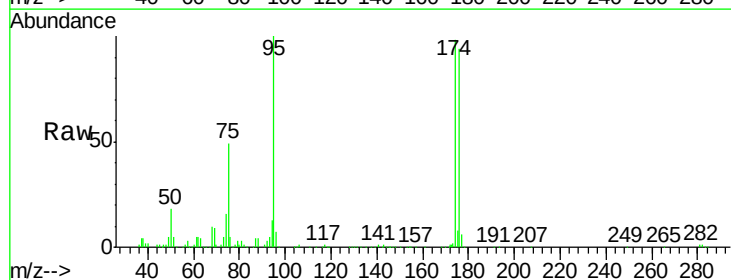
Instrument :
MSVOA_D
ClientSampleId :
NB-08-071720

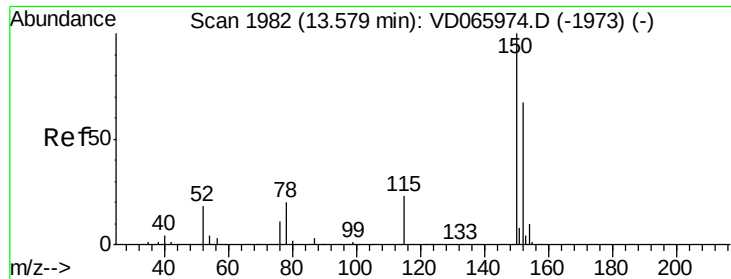
Tot Ion:117 Resp: 537786
Ion Ratio Lower Upper
117 100
82 53.5 41.1 61.7
119 33.2 25.9 38.9



#71
Bromoform
Concen: 1.461 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.27 min
Lab File: VD065987.D
Acq: 21 Jul 2020 18:29

Tgt Ion:173 Resp: 3111
Ion Ratio Lower Upper
173 100
175 428.3 24.1 72.3#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. 0.01 min

Lab File: VD065987.D

Acq: 21 Jul 2020 18:29

Instrument :

MSVOA_D

ClientSampleId :

NB-08-071720

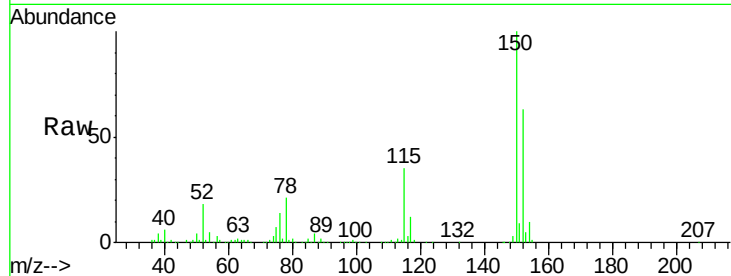
Tot Ion:152 Resp: 279945

Ion Ratio Lower Upper

152 100

115 55.1 27.9 83.7

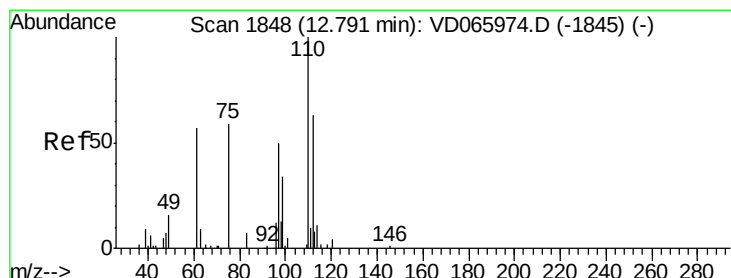
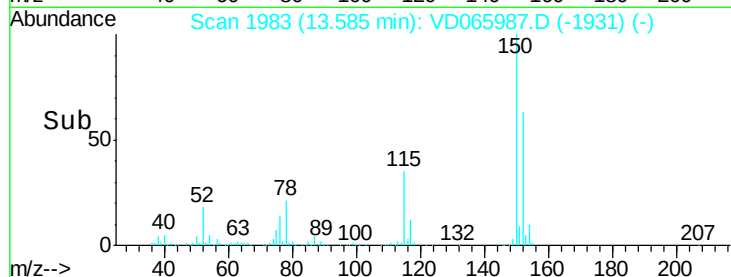
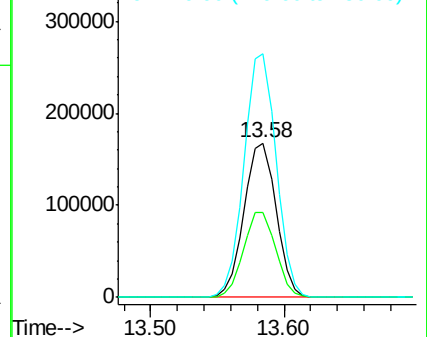
150 157.3 0.0 348.2



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: 55.804 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD065987.D

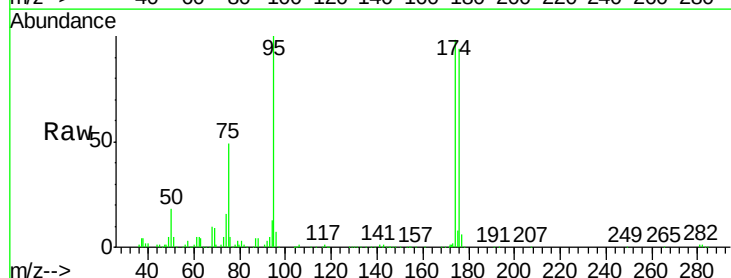
Acq: 21 Jul 2020 18:29

Tgt Ion: 75 Resp: 117626

Ion Ratio Lower Upper

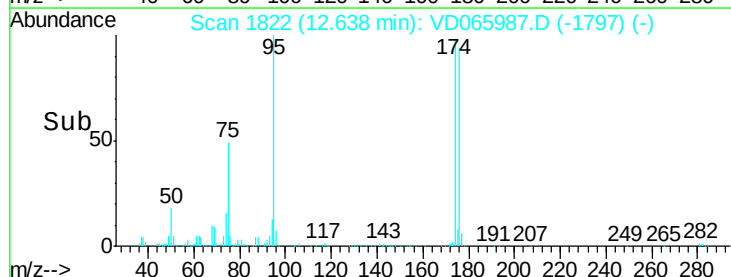
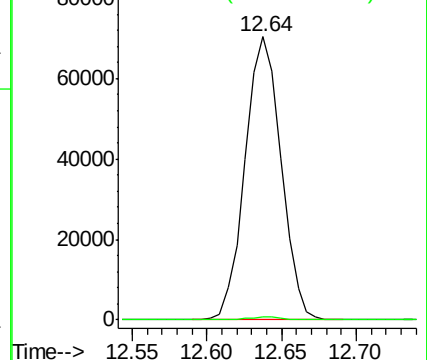
75 100

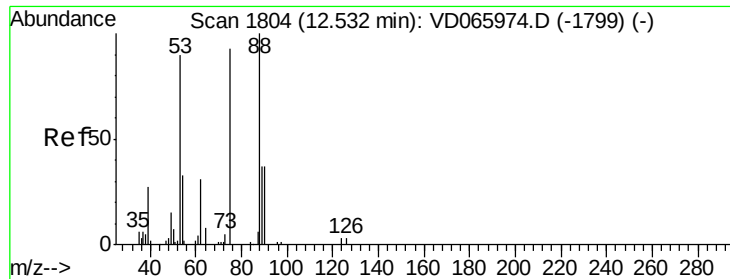
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 128.051 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD065987.D

Acq: 21 Jul 2020 18:29

Instrument :

MSVOA_D

ClientSampleId :

NB-08-071720

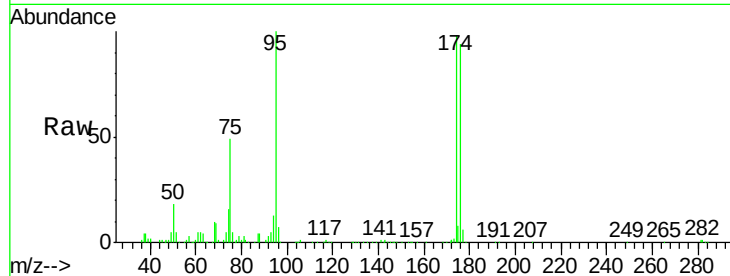
Tot Ion: 75 Resp: 117626

Ion Ratio Lower Upper

75 100

53 0.0 76.8 115.2#

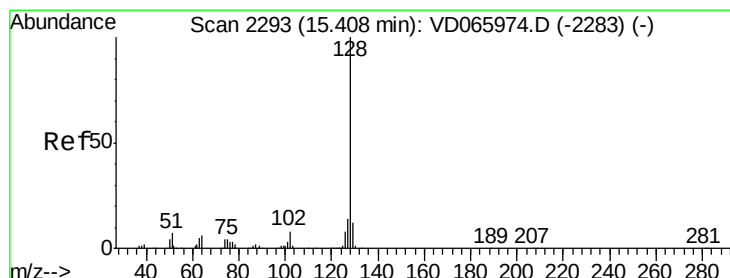
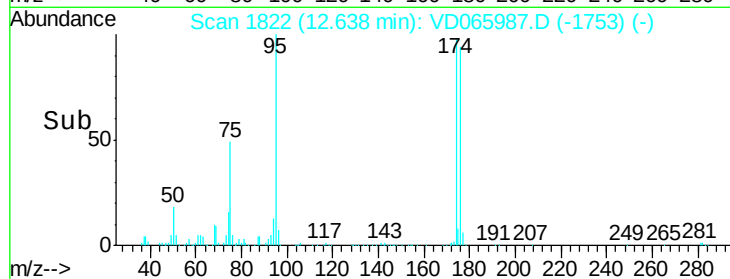
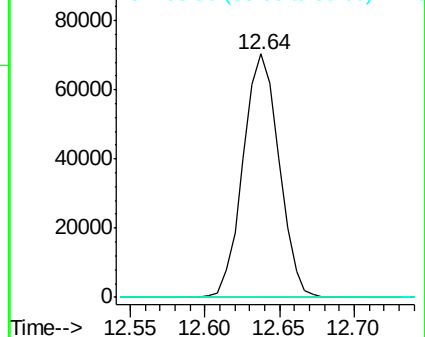
89 0.0 37.0 55.4#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC



#95

Naphthalene

Concen: 3.712 ug/l

RT: 15.41 min Scan# 2293

Delta R.T. -0.00 min

Lab File: VD065987.D

Acq: 21 Jul 2020 18:29

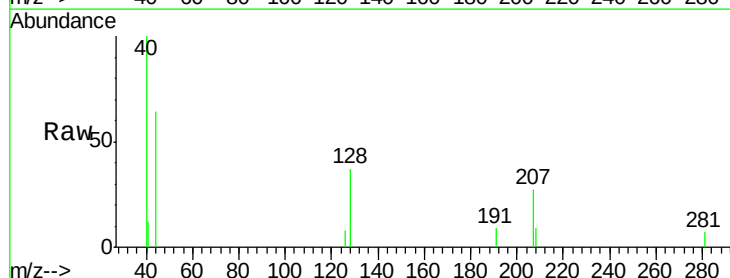
Tgt Ion: 128 Resp: 1574

Ion Ratio Lower Upper

128 100

127 4.7 10.8 16.2#

129 3.5 8.9 13.3#



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

