

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD093020\
 Data File : VD066976.D
 Acq On : 30 Sep 2020 16:20
 Operator : VA/SY
 Sample : L4193-04
 Misc : 5.04G/5.00ml/MSVOA D/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 B-13(11-13)

Quant Time: Oct 01 00:56:32 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D092220S.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 23 01:34:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	472176	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	788124	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	804830	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	405945	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	216190	46.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.56%	
35) Dibromofluoromethane	7.91	113	243564	48.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.16%	
50) Toluene-d8	10.34	98	947800	55.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.96%	
62) 4-Bromofluorobenzene	12.63	95	379539	64.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	129.80%	

Target Compounds

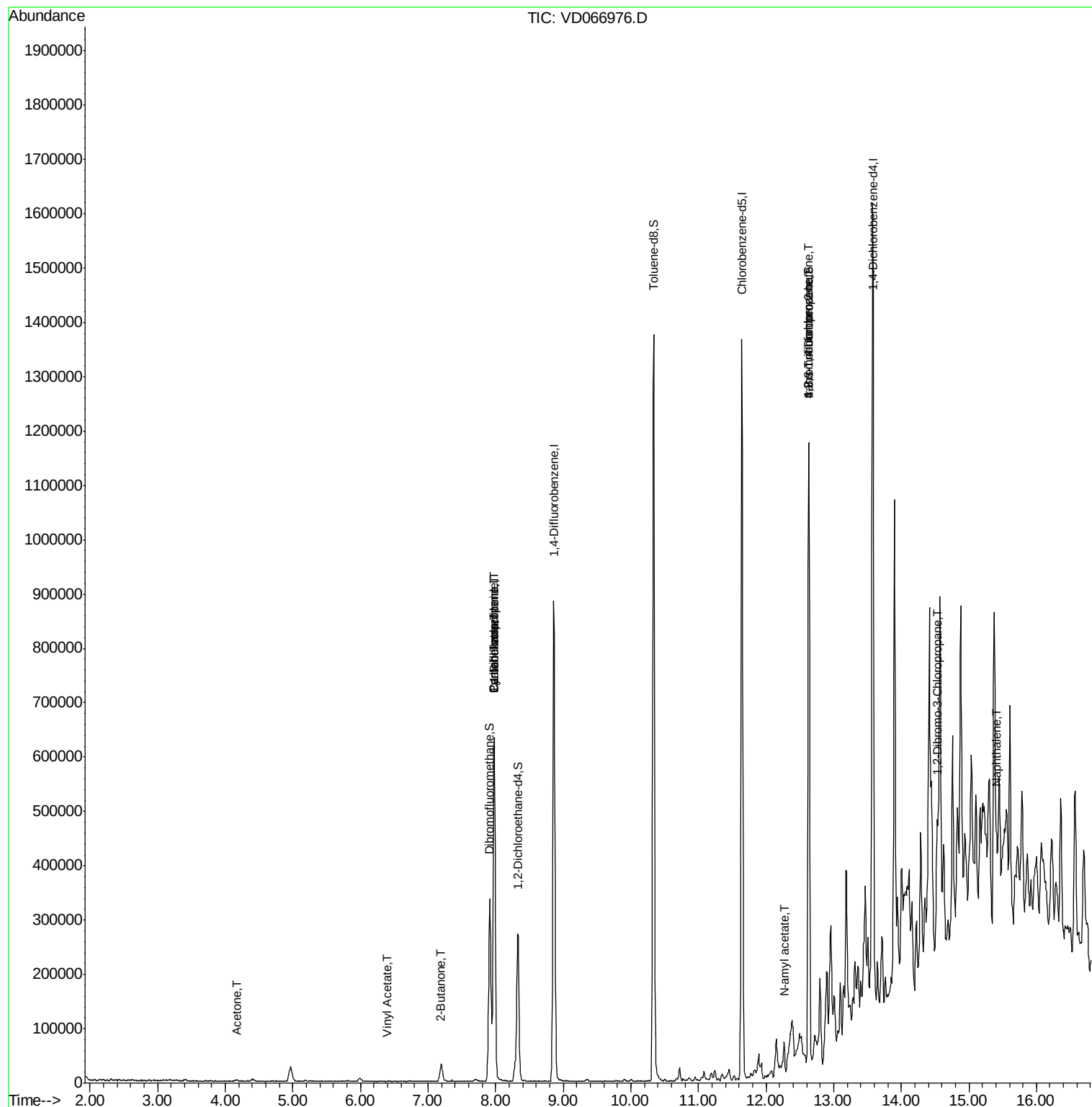
					Qvalue
2) Dichlorodifluoromethane	1.99	85	513	Below Cal	87
11) Tert butyl alcohol	5.23	59	211	Below Cal	# 72
16) Acetone	4.17	43	3742	3.817 ug/l	# 85
18) Methyl Acetate	4.94	43	178	Below Cal	# 50
20) Methylene Chloride	4.97	84	20923	Below Cal	91
23) Vinyl Acetate	6.40	43	59	2.680 ug/l	# 71
25) 2-Butanone	7.18	43	1483	1.259 ug/l	# 46
31) Cyclohexane	7.98	56	9832	1.170 ug/l	# 1
36) 1,1-Dichloropropene	7.98	75	34984	4.474 ug/l	# 49
38) Carbon Tetrachloride	7.98	117	48263	5.646 ug/l	# 16
74) N-amyl acetate	12.27	43	12293	2.147 ug/l	# 80
76) 1,2,3-Trichloropropane	12.63	75	192106	57.104 ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.63	75	192106	142.869 ug/l	# 11
92) 1,2-Dibromo-3-Chloropropan	14.53	75	1071	1.316 ug/l	# 28
95) Naphthalene	15.41	128	90916	7.338 ug/l	97

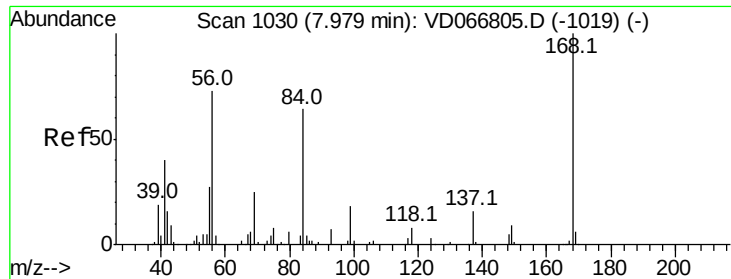
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VD066976.D

Acq: 30 Sep 2020 16:20

Instrument :

MSVOA_D

ClientSampleId :

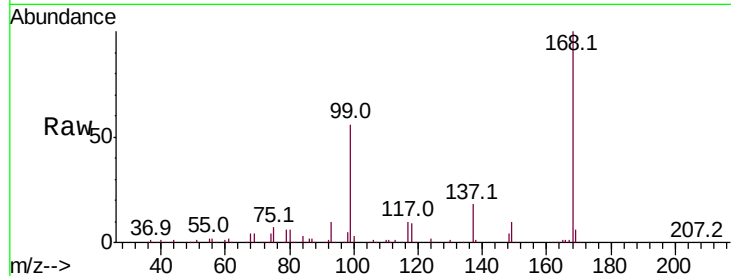
B-13(11-13)

Tot Ion:168 Resp: 472176

Ion Ratio Lower Upper

168 100

99 55.8 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

250000

200000

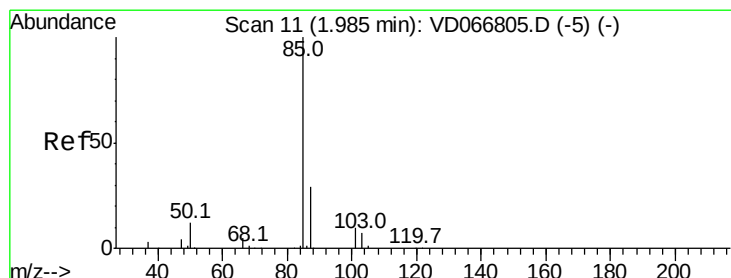
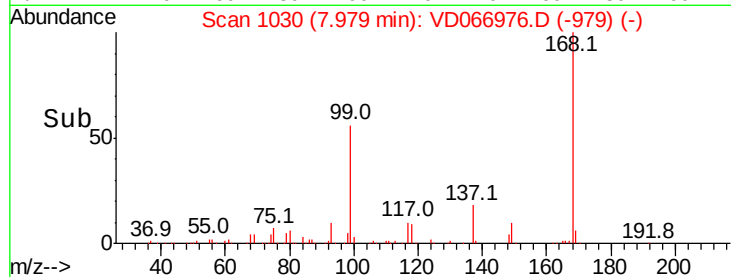
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 12

Delta R.T. 0.01 min

Lab File: VD066976.D

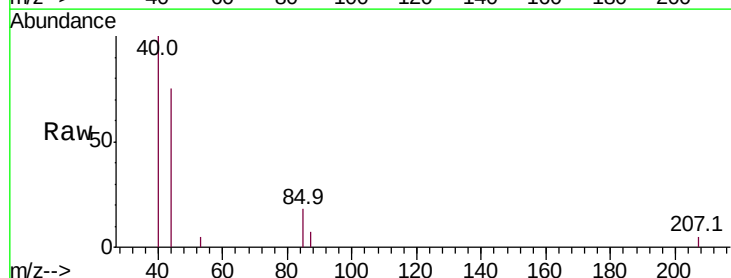
Acq: 30 Sep 2020 16:20

Tgt Ion: 85 Resp: 513

Ion Ratio Lower Upper

85 100

87 36.1 14.5 43.5



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

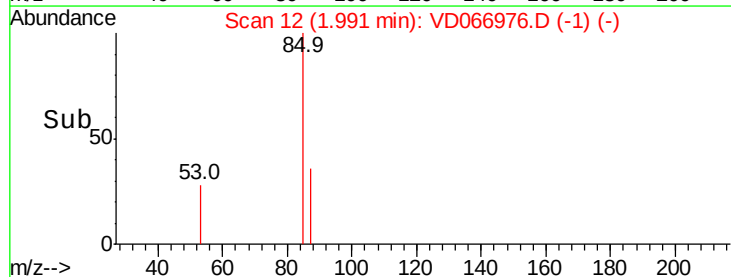
600

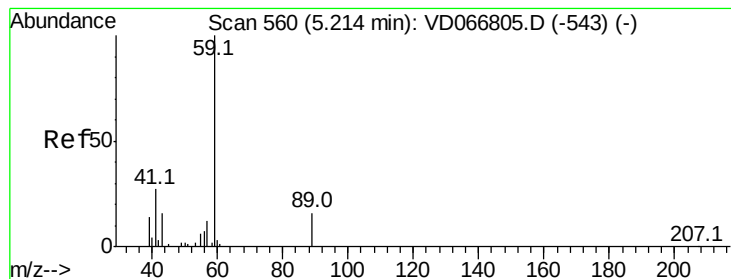
400

200

0

Time-->



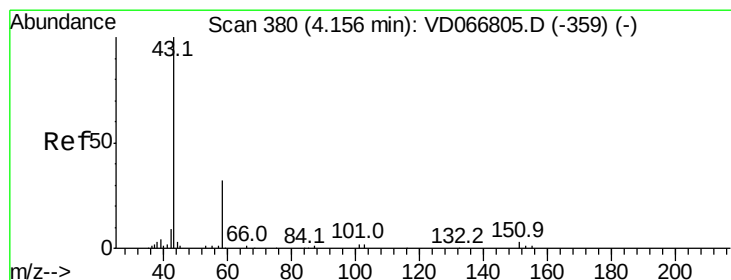
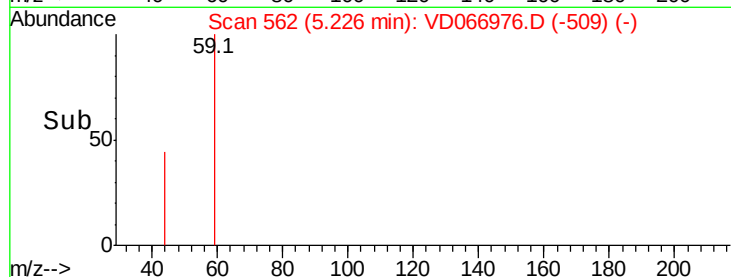
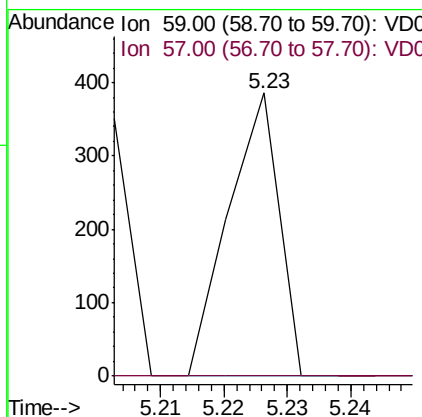
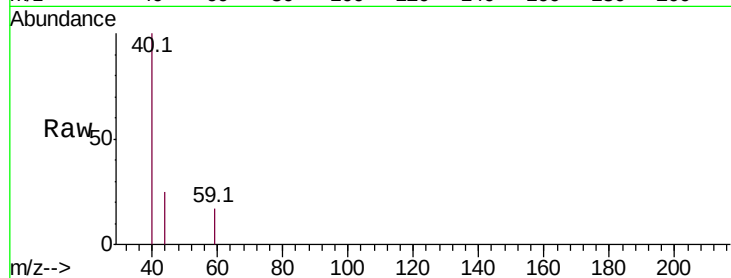


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 5.23 min Scan# 562
 Delta R.T. 0.01 min
 Lab File: VD066976.D
 Acq: 30 Sep 2020 16:20

Instrument :
 MSVOA_D
 ClientSampleId :
 B-13(11-13)

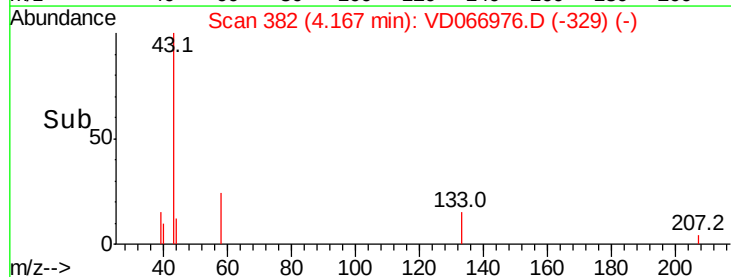
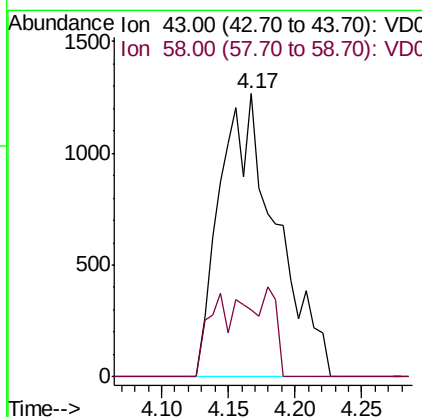
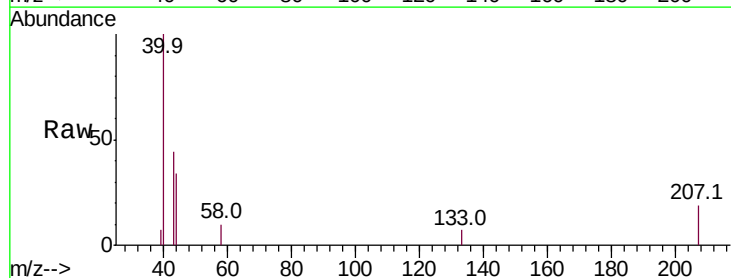
Tot Ion: 59 Resp: 211
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#

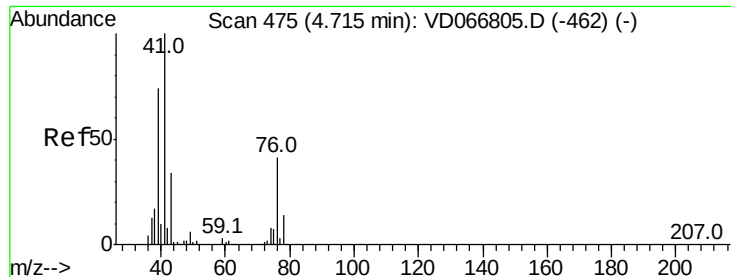


#16

Acetone
 Concen: 3.817 ug/l
 RT: 4.17 min Scan# 382
 Delta R.T. 0.01 min
 Lab File: VD066976.D
 Acq: 30 Sep 2020 16:20

Tgt Ion: 43 Resp: 3742
 Ion Ratio Lower Upper
 43 100
 58 23.6 25.6 38.4#

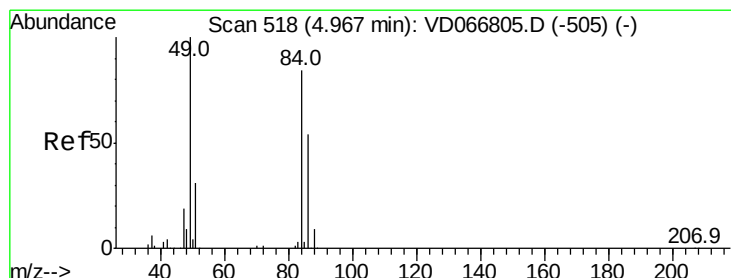
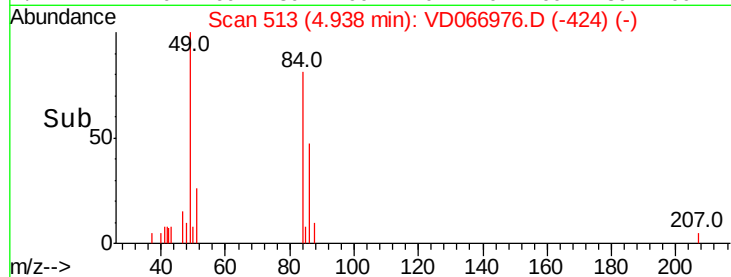
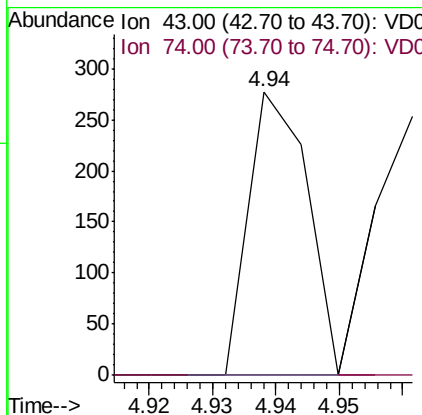
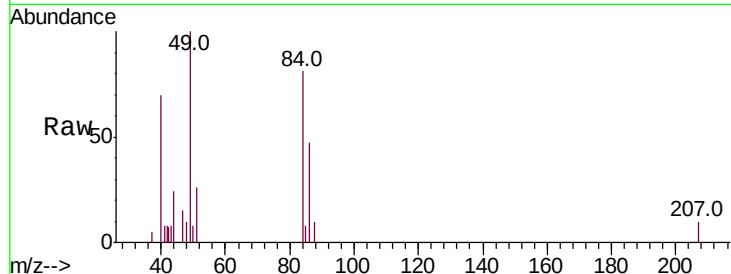




#18
Methyl Acetate
Concen: Below Cal
RT: 4.94 min Scan# 513
Delta R.T. 0.22 min
Lab File: VD066976.D
Acq: 30 Sep 2020 16:20

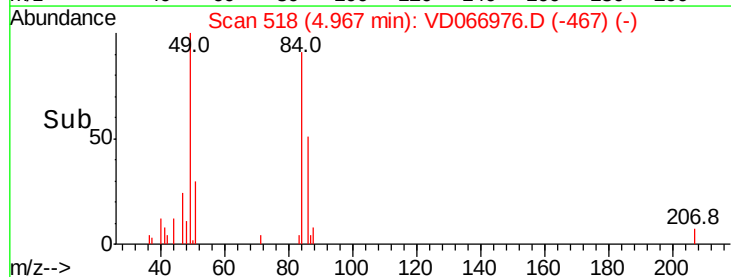
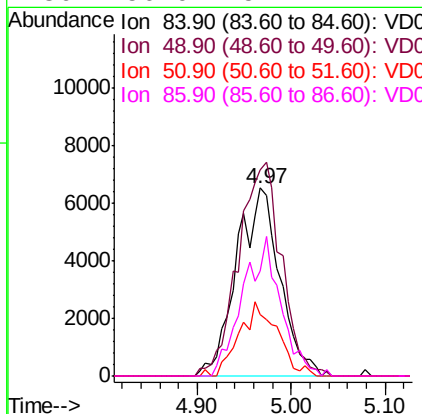
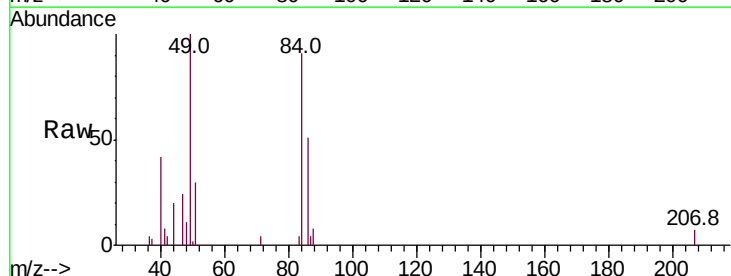
Instrument :
MSVOA_D
ClientSampleId :
B-13(11-13)

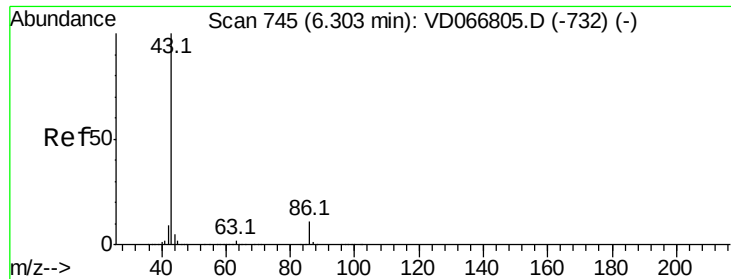
Tot Ion: 43 Resp: 178
Ion Ratio Lower Upper
43 100
74 0.0 20.3 30.5#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.97 min Scan# 518
Delta R.T. 0.00 min
Lab File: VD066976.D
Acq: 30 Sep 2020 16:20

Tgt Ion: 84 Resp: 20923
Ion Ratio Lower Upper
84 100
49 110.1 95.4 143.2
51 32.7 29.7 44.5
86 56.0 51.4 77.2





#23

Vinyl Acetate

Concen: 2.680 ug/l

RT: 6.40 min Scan# 761

Delta R.T. 0.09 min

Lab File: VD066976.D

Acq: 30 Sep 2020 16:20

Instrument :

MSVOA_D

ClientSampleId :

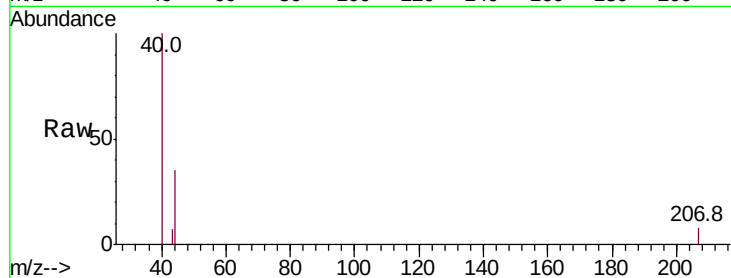
B-13(11-13)

Tot Ion: 43 Resp: 59

Ion Ratio Lower Upper

43 100

86 0.0 8.9 13.3#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 86.00 (85.70 to 86.70): VDC

6.40

150

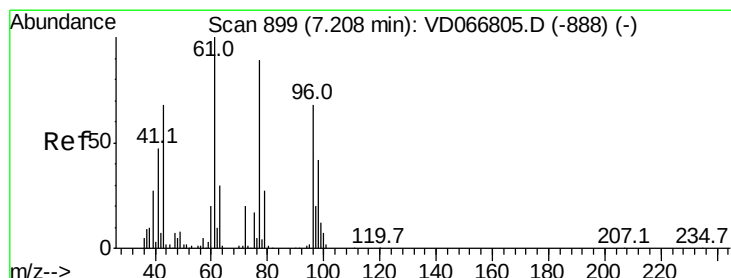
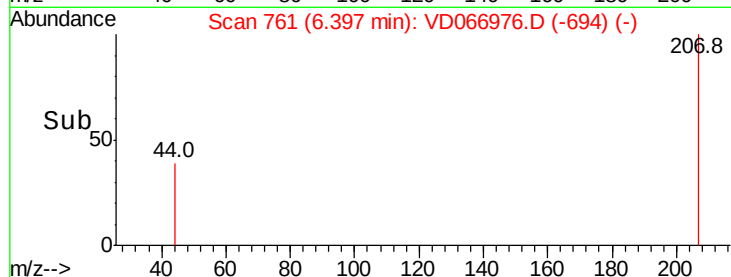
100

50

0

6.38 6.39 6.40 6.41

Time-->



#25

2-Butanone

Concen: 1.259 ug/l

RT: 7.18 min Scan# 895

Delta R.T. -0.02 min

Lab File: VD066976.D

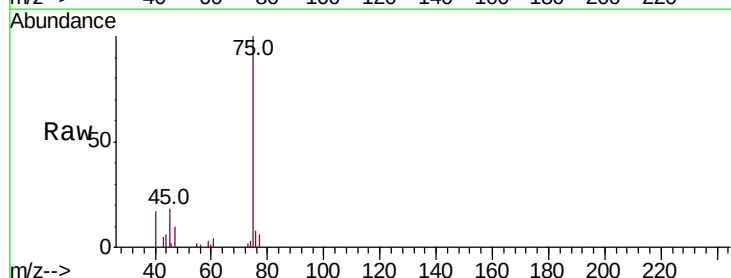
Acq: 30 Sep 2020 16:20

Tgt Ion: 43 Resp: 1483

Ion Ratio Lower Upper

43 100

72 0.0 22.9 34.3#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

7.18

800

600

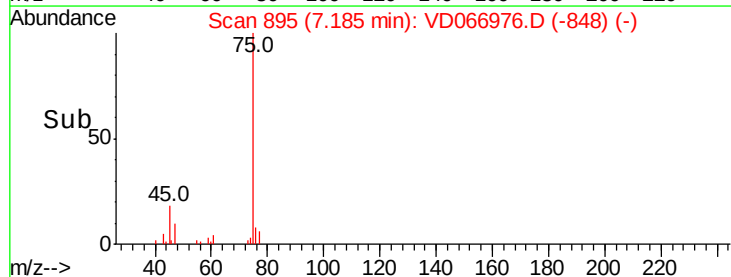
400

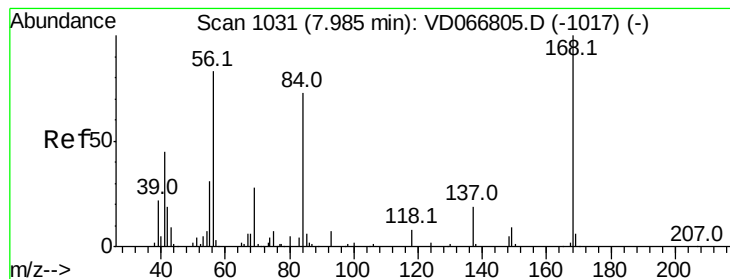
200

0

7.14 7.16 7.18 7.20 7.22

Time-->





#31

Cyclohexane

Concen: 1.170 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD066976.D

Acq: 30 Sep 2020 16:20

Instrument :

MSVOA_D

ClientSampleID :

B-13(11-13)

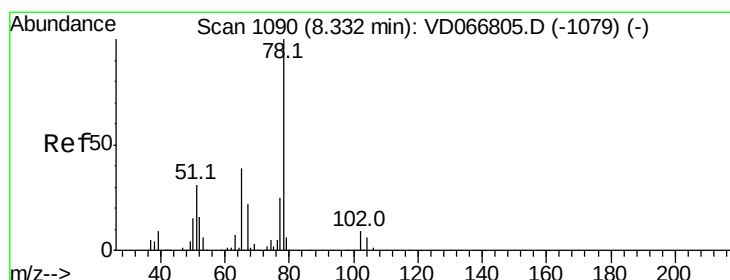
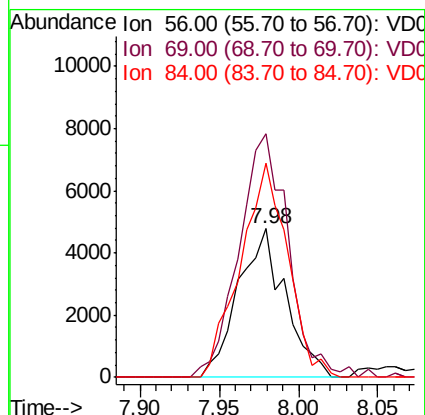
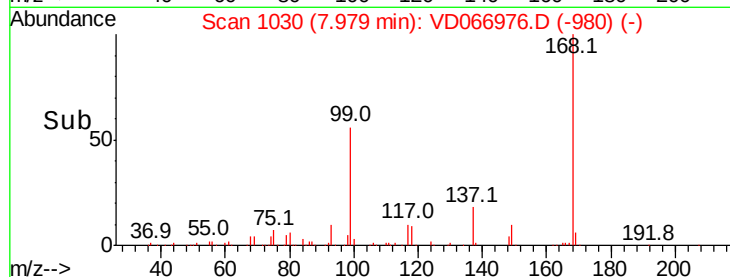
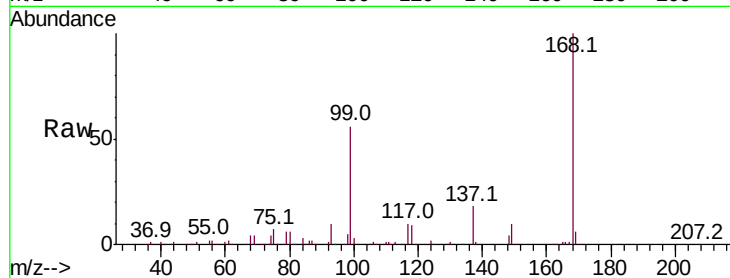
Tot Ion: 56 Resp: 9832

Ion Ratio Lower Upper

56 100

69 164.2 27.0 40.4#

84 144.6 70.2 105.4#



#33

1,2-Dichloroethane-d4

Concen: 46.780 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. -0.00 min

Lab File: VD066976.D

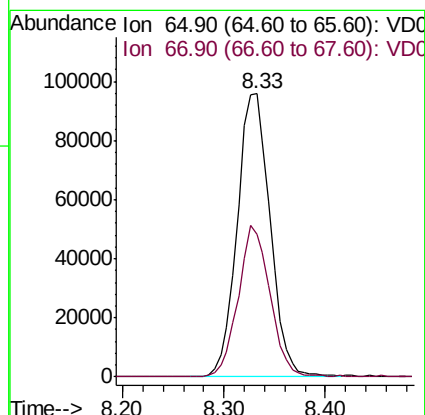
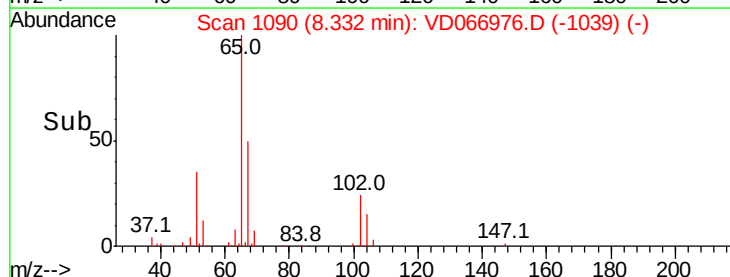
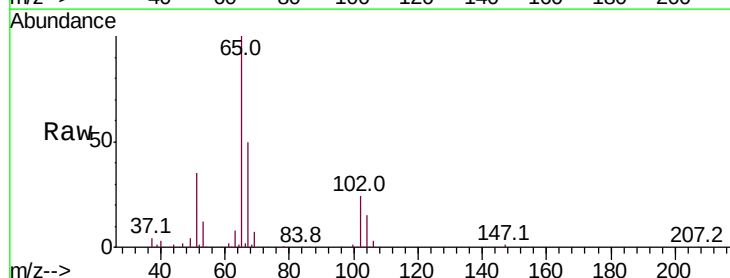
Acq: 30 Sep 2020 16:20

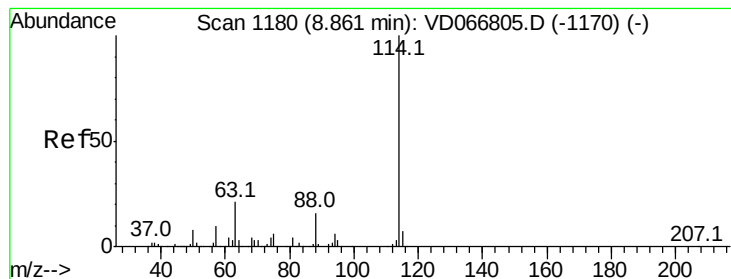
Tgt Ion: 65 Resp: 216190

Ion Ratio Lower Upper

65 100

67 51.6 0.0 107.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.86 min Scan# 1180

Delta R.T. -0.00 min

Lab File: VD066976.D

Acq: 30 Sep 2020 16:20

Instrument :

MSVOA_D

ClientSampleId :

B-13(11-13)

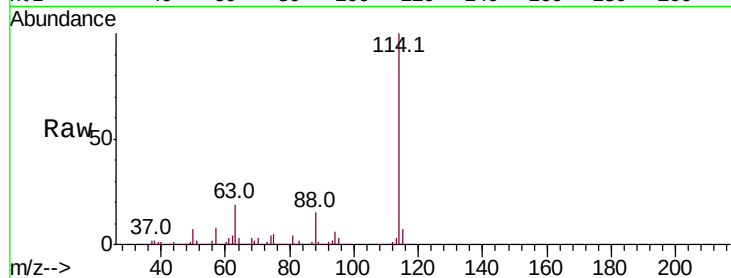
Tot Ion:114 Resp: 788124

Ion Ratio Lower Upper

114 100

63 19.2 0.0 42.6

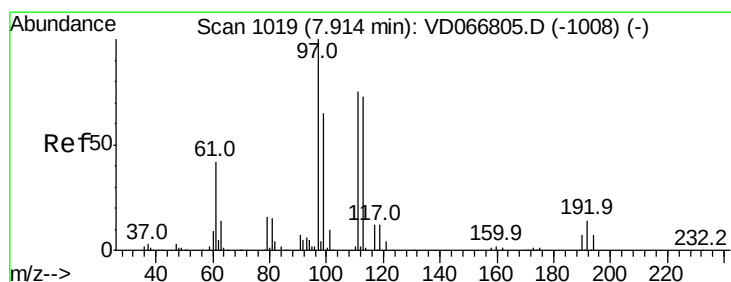
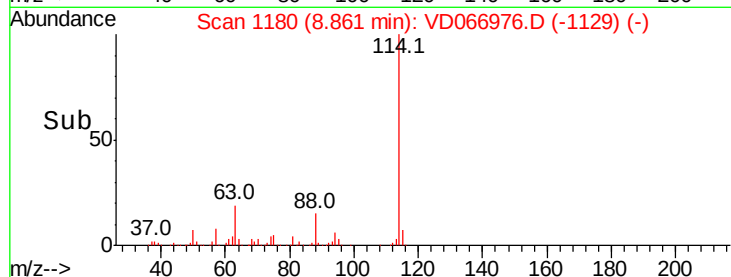
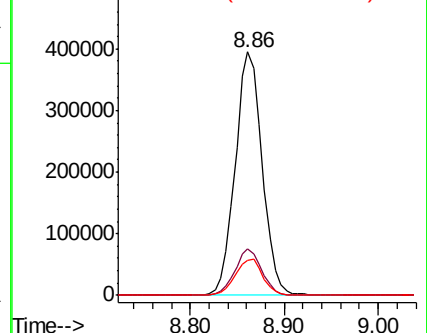
88 14.5 0.0 32.6



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: 48.576 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. -0.00 min

Lab File: VD066976.D

Acq: 30 Sep 2020 16:20

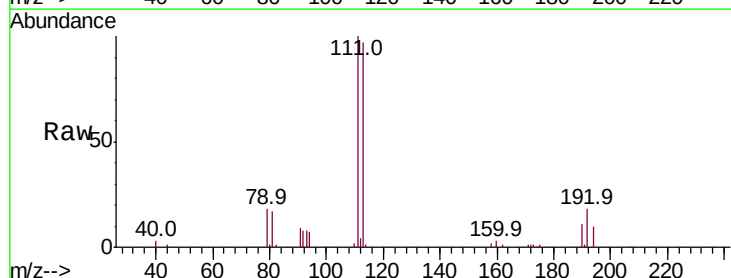
Tgt Ion:113 Resp: 243564

Ion Ratio Lower Upper

113 100

111 102.9 81.8 122.8

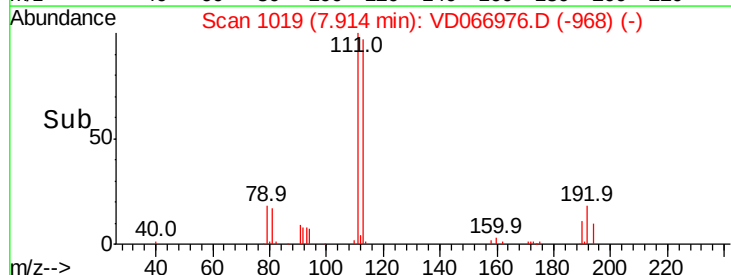
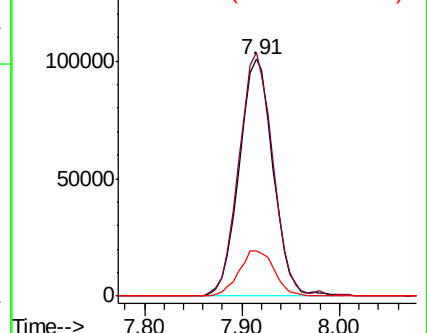
192 20.0 14.4 21.6

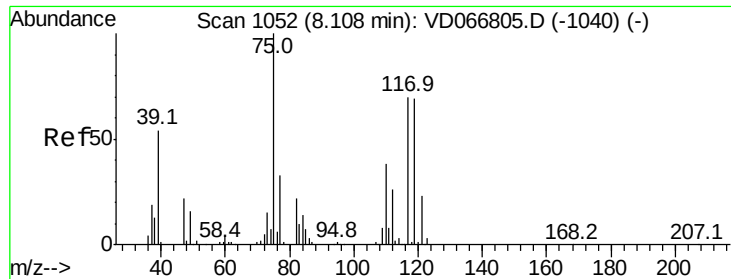


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.474 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.13 min

Lab File: VD066976.D

Acq: 30 Sep 2020 16:20

Instrument :

MSVOA_D

ClientSampled :

B-13(11-13)

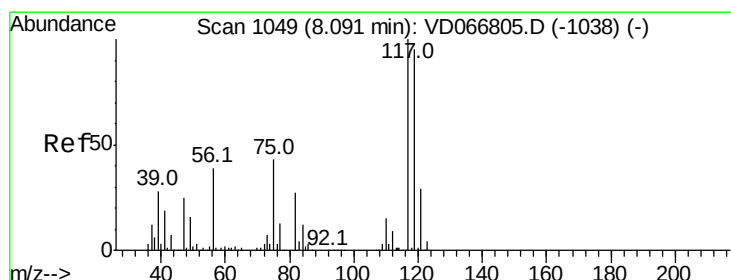
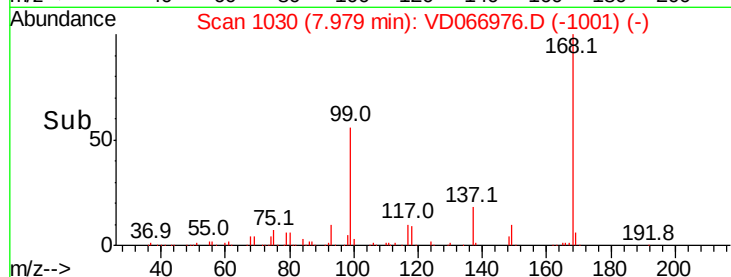
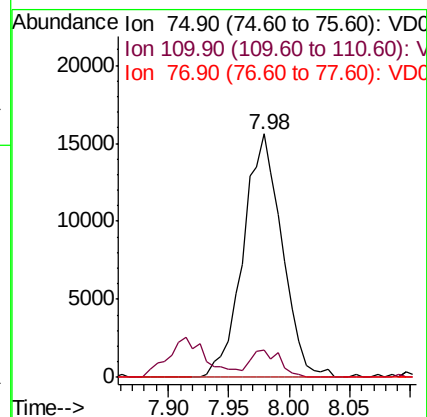
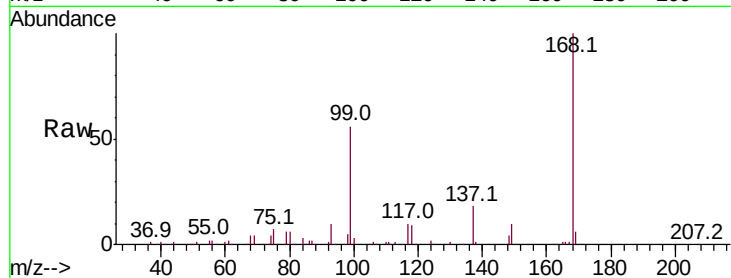
Tot Ion: 75 Resp: 34984

Ion Ratio Lower Upper

75 100

110 8.4 17.9 53.8#

77 0.0 25.0 37.6#



#38

Carbon Tetrachloride

Concen: 5.646 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.11 min

Lab File: VD066976.D

Acq: 30 Sep 2020 16:20

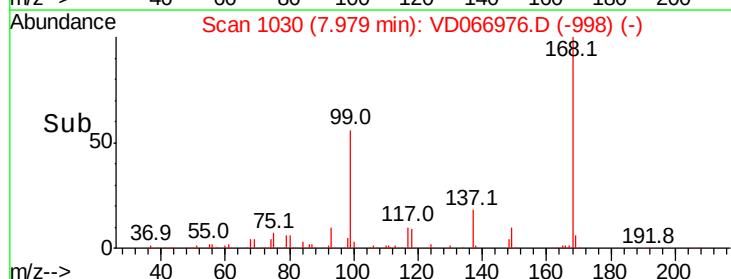
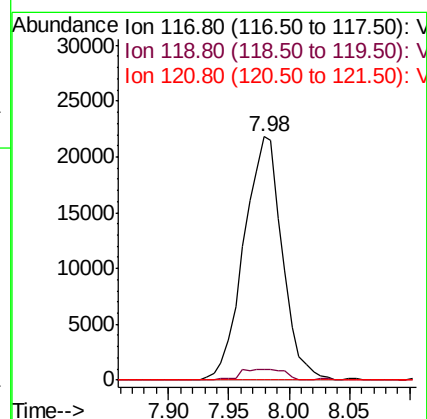
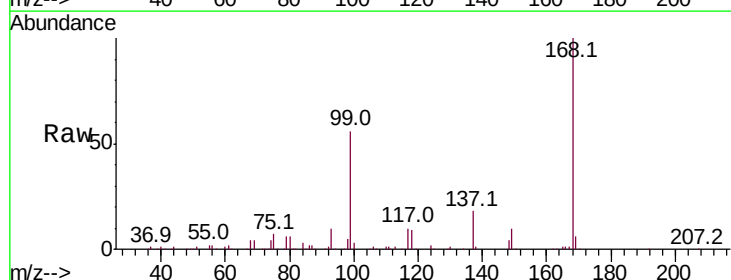
Tgt Ion: 117 Resp: 48263

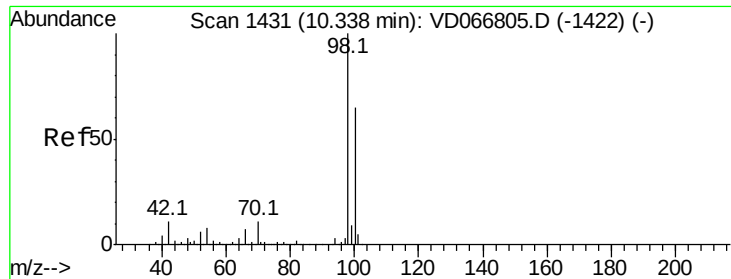
Ion Ratio Lower Upper

117 100

119 4.3 75.8 113.8#

121 0.0 23.4 35.0#





#50

Toluene-d8

Concen: 55.480 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. -0.00 min

Lab File: VD066976.D

Acq: 30 Sep 2020 16:20

Instrument :

MSVOA_D

ClientSampleId :

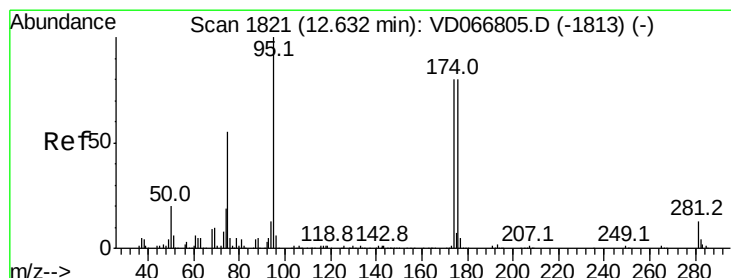
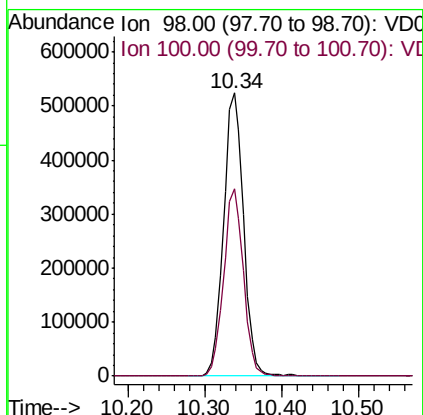
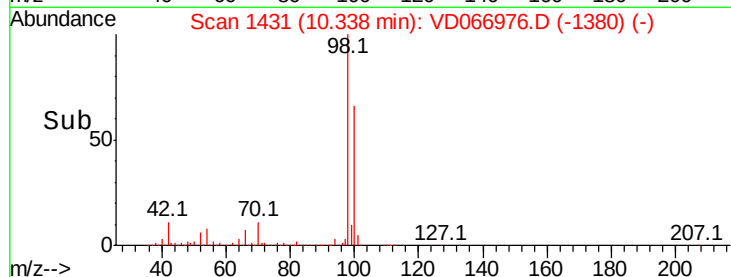
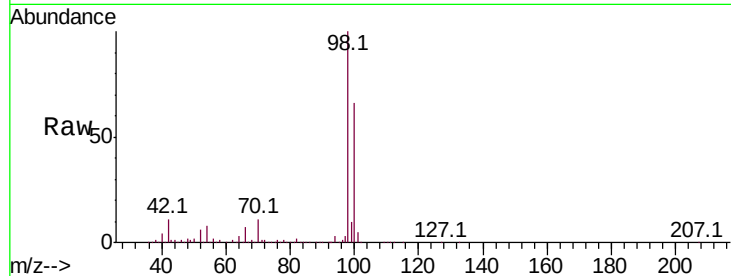
B-13(11-13)

Tot Ion: 98 Resp: 947800

Ion Ratio Lower Upper

98 100

100 65.3 52.2 78.2



#62

4-Bromofluorobenzene

Concen: 64.897 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.00 min

Lab File: VD066976.D

Acq: 30 Sep 2020 16:20

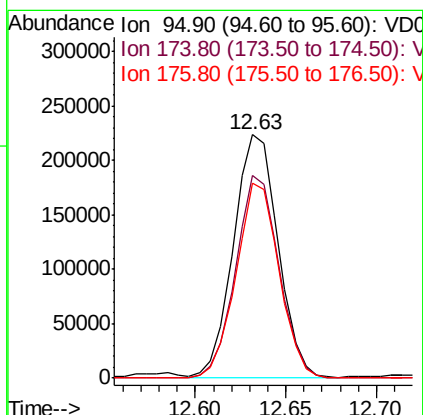
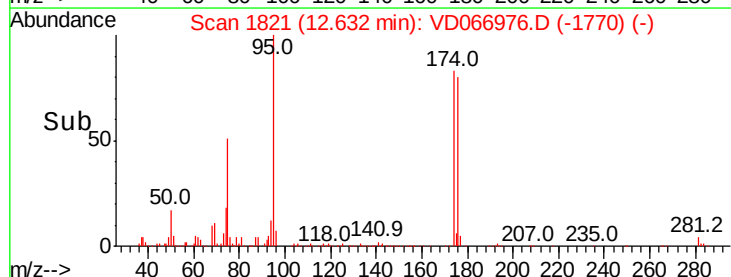
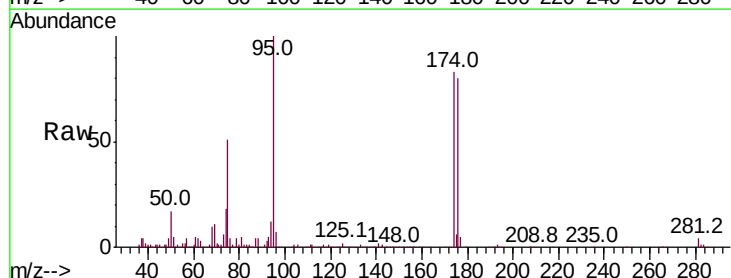
Tgt Ion: 95 Resp: 379539

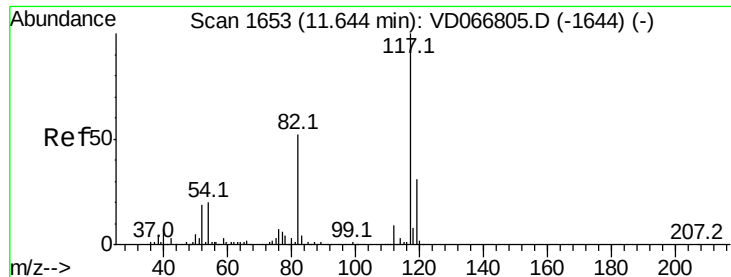
Ion Ratio Lower Upper

95 100

174 81.4 0.0 159.8

176 78.0 0.0 154.4

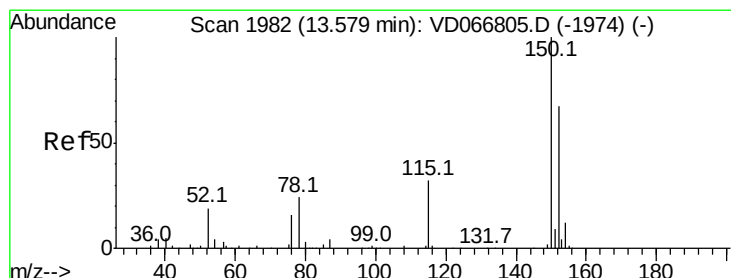
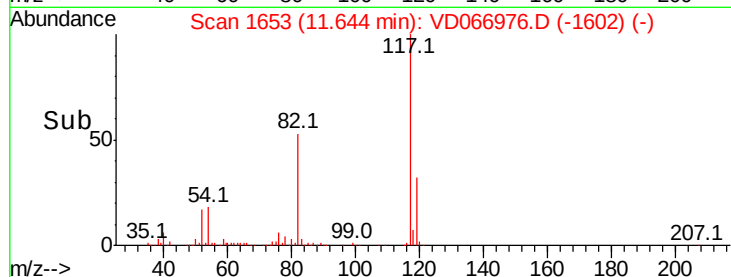
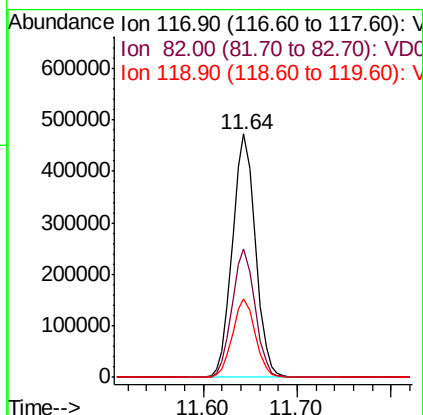
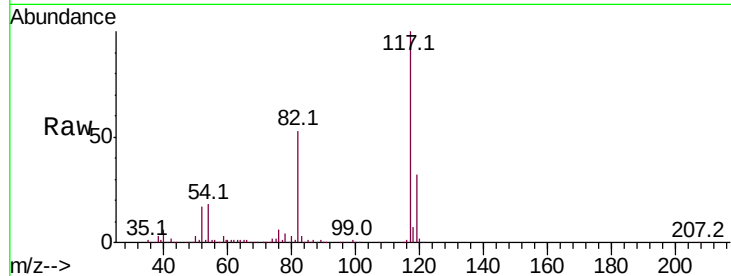




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. -0.00 min
Lab File: VD066976.D
Acq: 30 Sep 2020 16:20

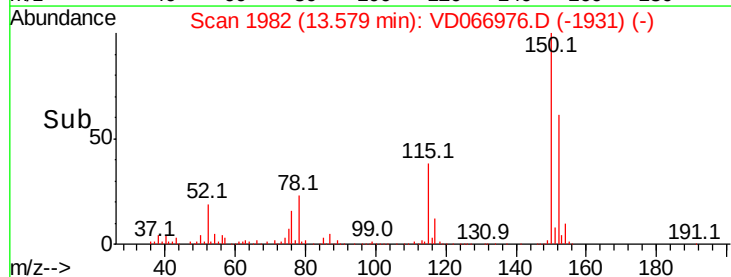
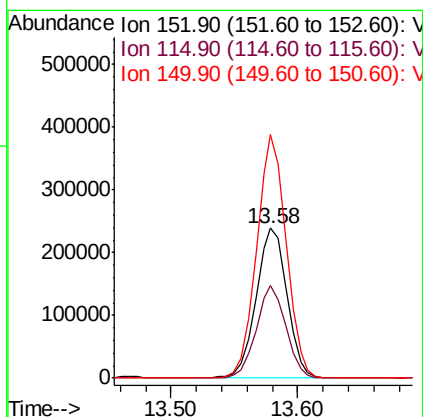
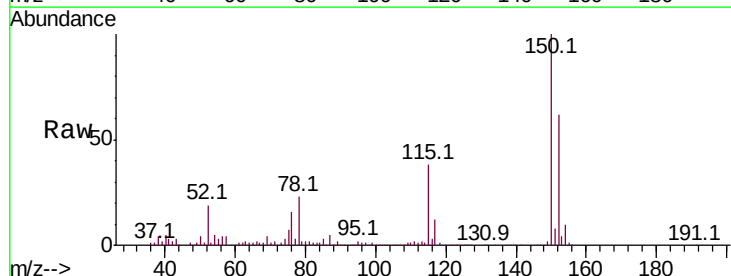
Instrument :
MSVOA_D
ClientSampleId :
B-13(11-13)

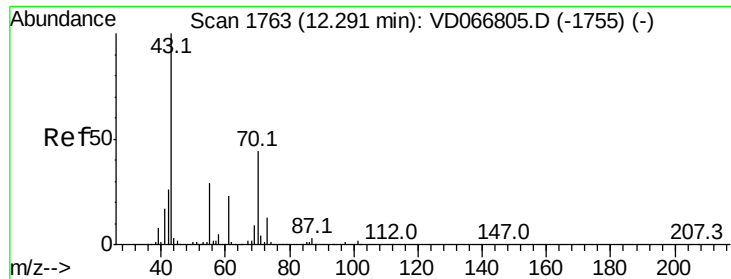
Tot Ion:117 Resp: 804830
Ion Ratio Lower Upper
117 100
82 52.4 41.8 62.6
119 32.0 24.6 37.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. -0.00 min
Lab File: VD066976.D
Acq: 30 Sep 2020 16:20

Tgt Ion:152 Resp: 405945
Ion Ratio Lower Upper
152 100
115 58.9 30.3 91.0
150 155.2 0.0 346.2





#74

N-amvl acetate

Concen: 2.147 ug/l

RT: 12.27 min Scan# 1759

Delta R.T. -0.02 min

Lab File: VD066976.D

Acq: 30 Sep 2020 16:20

Instrument :

MSVOA_D

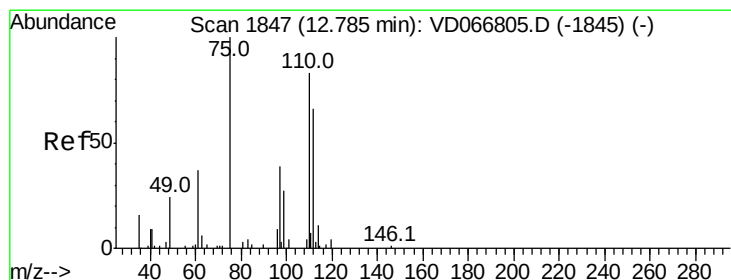
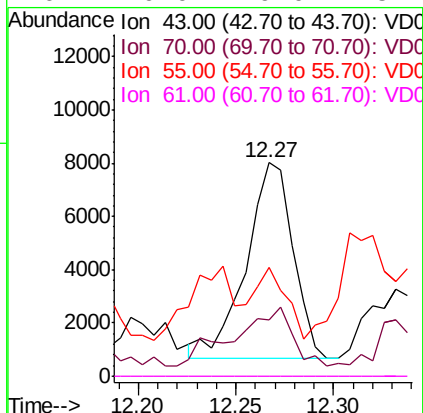
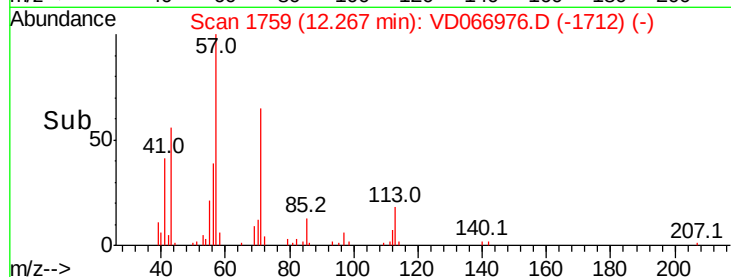
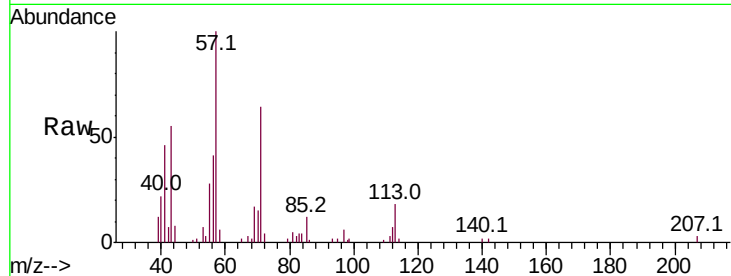
ClientSampleId :

B-13(11-13)

Tot Ion: 43 Resp: 12293

Ion Ratio Lower Upper

43	100		
70	36.9	36.1	54.1
55	22.7	21.8	32.8
61	0.0	19.0	28.4



#76

1,2,3-Trichloropropane

Concen: 57.104 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

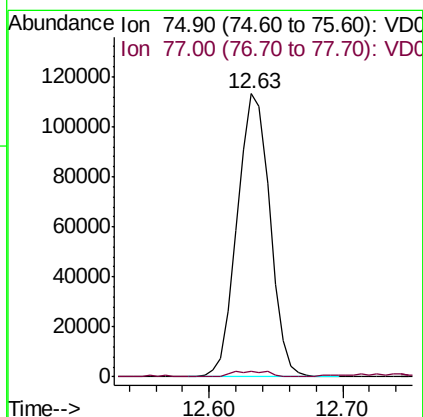
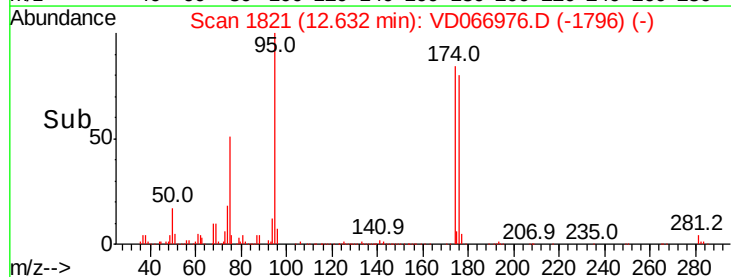
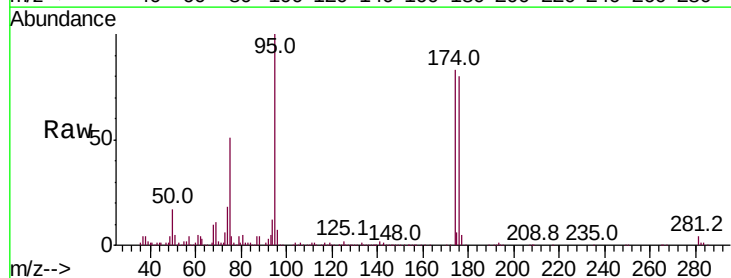
Lab File: VD066976.D

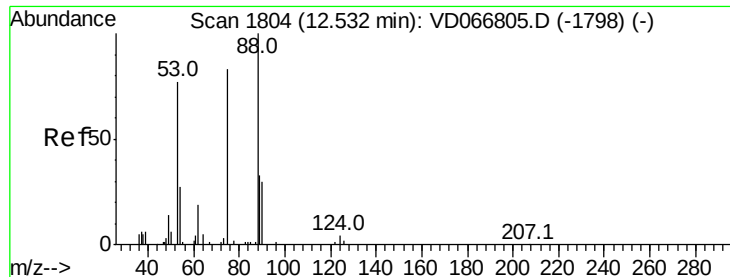
Acq: 30 Sep 2020 16:20

Tgt Ion: 75 Resp: 192106

Ion Ratio Lower Upper

75	100		
77	2.4	0.0	0.0





#81

trans-1,4-Dichloro-2-butene

Concen: 142.869 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD066976.D

Acq: 30 Sep 2020 16:20

Instrument :

MSVOA_D

ClientSampled :

B-13(11-13)

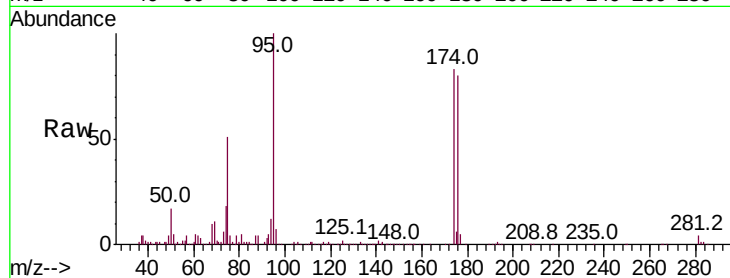
Tot Ion: 75 Resp: 192106

Ion Ratio Lower Upper

75 100

53 0.7 78.5 117.7#

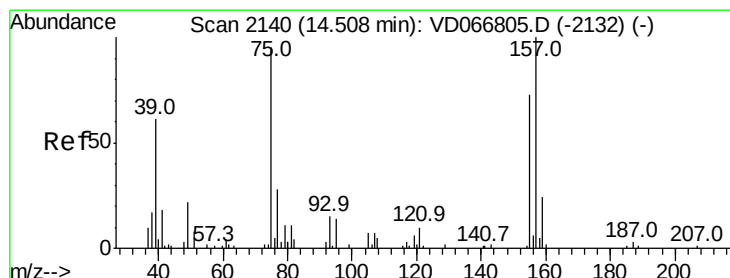
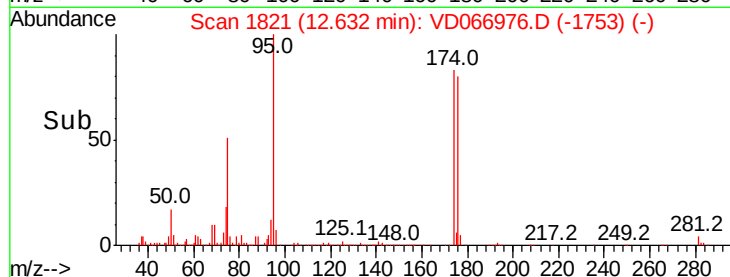
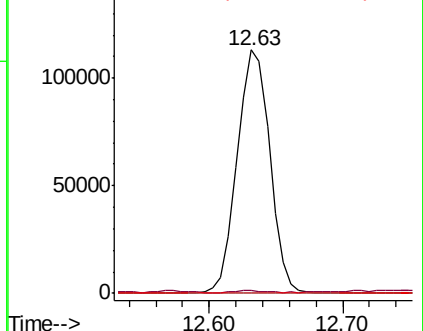
89 0.0 38.1 57.1#



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.316 ug/l

RT: 14.53 min Scan# 2143

Delta R.T. 0.02 min

Lab File: VD066976.D

Acq: 30 Sep 2020 16:20

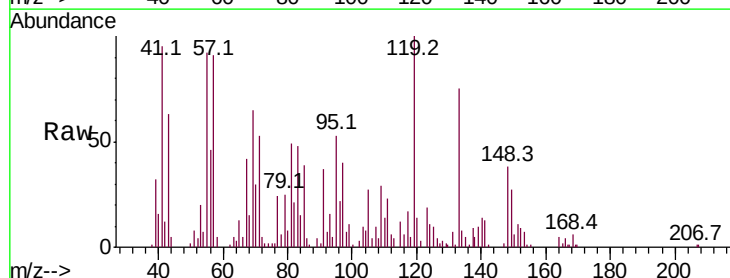
Tgt Ion: 75 Resp: 1071

Ion Ratio Lower Upper

75 100

155 50.3 40.4 121.2

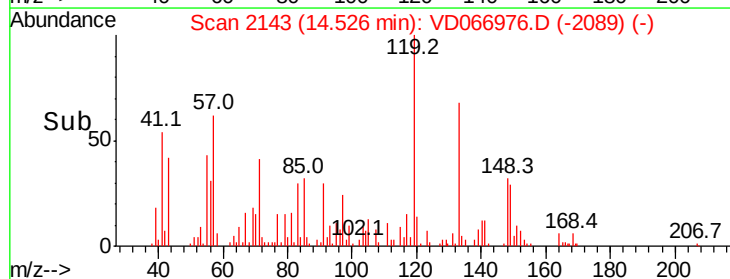
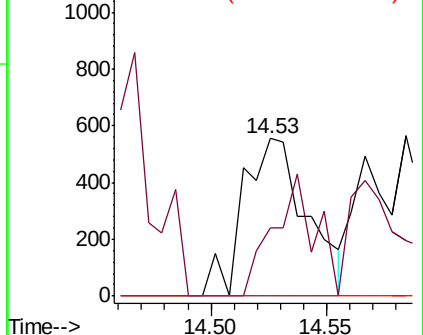
157 0.0 51.3 153.9#

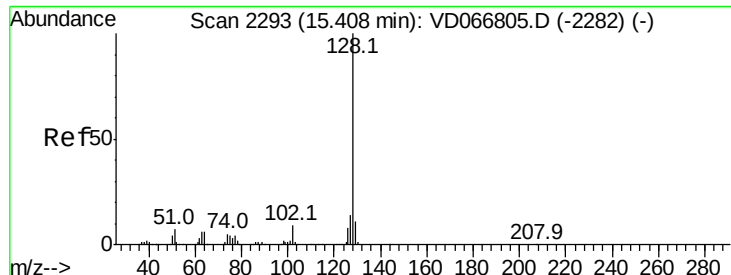


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#95

Naphthalene

Concen: 7.338 ug/l

RT: 15.41 min Scan# 2294

Delta R.T. 0.01 min

Lab File: VD066976.D

Acq: 30 Sep 2020 16:20

Instrument :

MSVOA_D

ClientSampleId :

B-13(11-13)

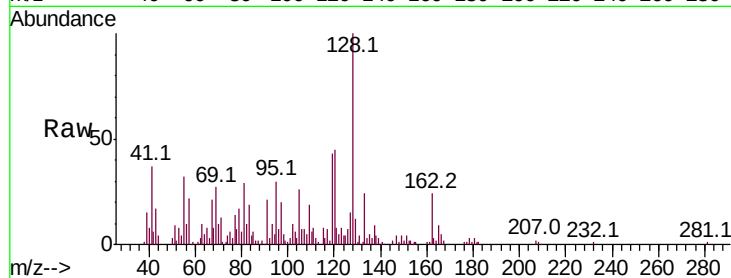
Tot Ion:128 Resp: 90916

Ion Ratio Lower Upper

128 100

127 15.4 10.6 16.0

129 10.7 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

