

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD051719\
 Data File : VD062441.D
 Acq On : 17 May 2019 16:09
 Operator : FY/SY
 Sample : K2866-04
 Misc : 7.02g/5mL/MSVOA D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleID :
 RO-COMP-2

Quant Time: May 18 00:04:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D050719S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 14:26:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	12178	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.22	114	17231	50.00	ug/l	0.03
63) Chlorobenzene-d5	12.38	117	13211	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	14.52	152	6549	50.00	ug/l	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	5853	51.72	ug/l	0.02
Spiked Amount			Recovery	=	103.44%	
35) Dibromofluoromethane	6.91	113	4563	31.92	ug/l	0.02
Spiked Amount			Recovery	=	63.84%	
50) Toluene-d8	10.42	98	9540	27.68	ug/l	0.02
Spiked Amount			Recovery	=	55.36%	
62) 4-Bromofluorobenzene	13.56	95	4258	30.76	ug/l	0.01
Spiked Amount			Recovery	=	61.52%	

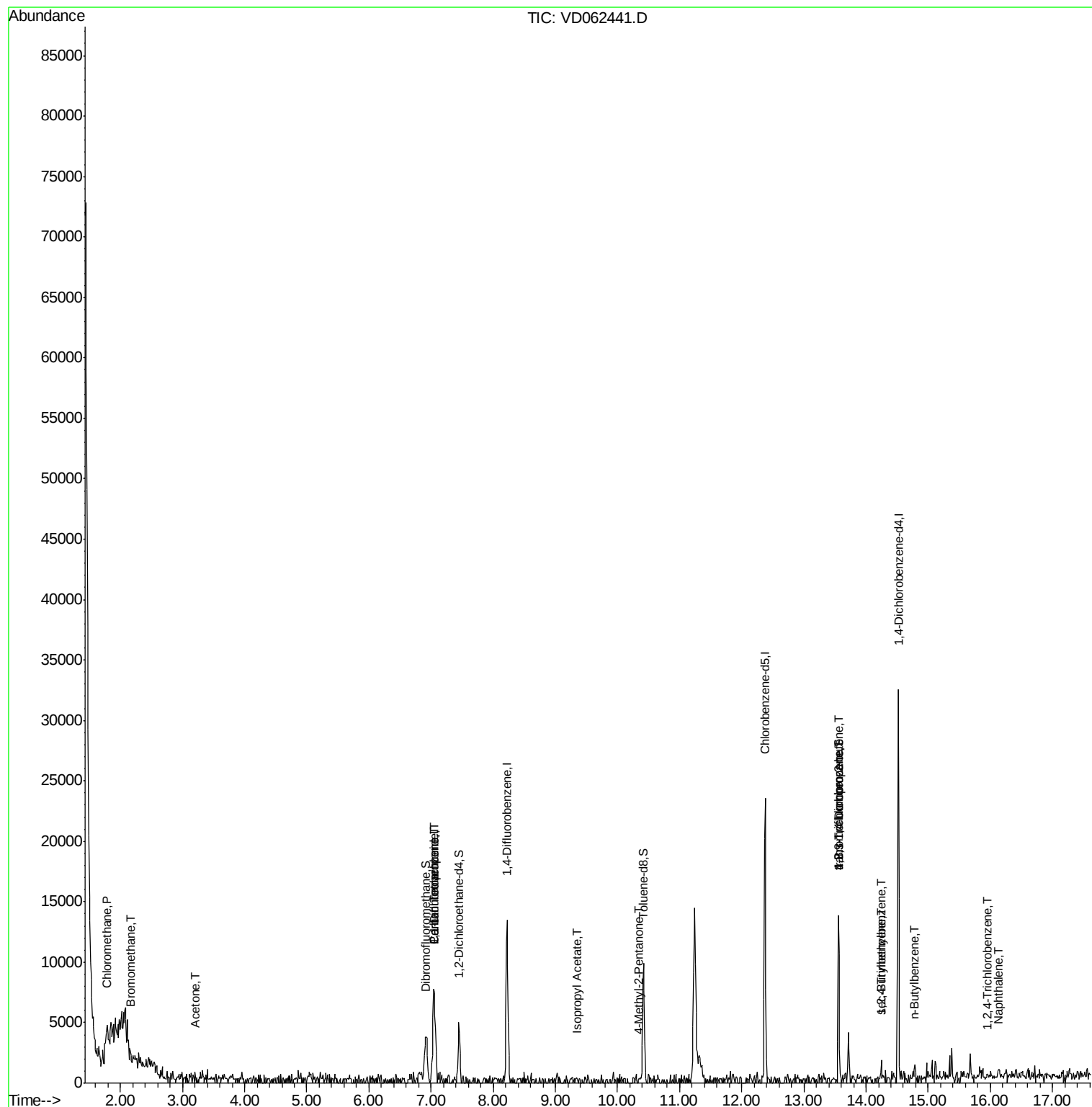
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.77	50	190	2.258	ug/l #	43
5) Bromomethane	2.17	94	184	9.494	ug/l #	12
16) Acetone	3.20	43	539	22.711	ug/l #	50
36) 1,1-Dichloropropene	7.03	75	181	1.281	ug/l #	40
38) Carbon Tetrachloride	7.03	117	479	2.450	ug/l #	12
43) Isopropyl Acetate	9.35	43	198	2.330	ug/l #	43
51) 4-Methyl-2-Pentanone	10.34	43	181	3.314	ug/l #	37
76) 1,2,3-Trichloropropane	13.57	75	1607	20.648	ug/l #	42
81) trans-1,4-Dichloro-2-buten	13.57	75	2001	91.072	ug/l #	16
84) 1,2,4-Trimethylbenzene	14.24	105	739	2.228	ug/l	90
85) sec-Butylbenzene	14.24	105	739	1.814	ug/l #	60
89) n-Butylbenzene	14.79	91	434	1.328	ug/l #	28
93) 1,2,4-Trichlorobenzene	15.95	180	214	1.778	ug/l #	11
95) Naphthalene	16.12	128	478	2.845	ug/l #	70

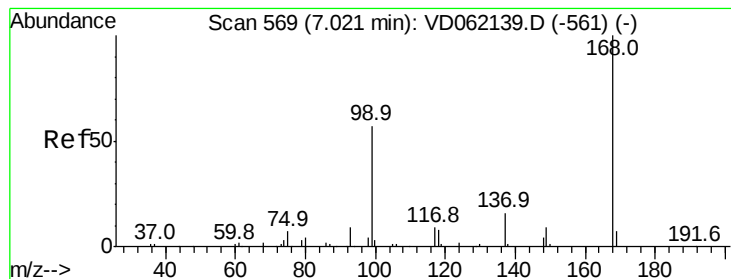
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 571

Delta R.T. 0.02 min

Lab File: VD062441.D

Acq: 17 May 2019 16:09

Instrument :

MSVOA_D

ClientSampleId :

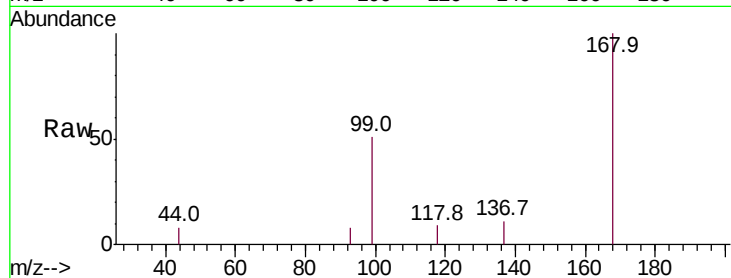
RO-COMP-2

Tot Ion:168 Resp: 12178

Ion Ratio Lower Upper

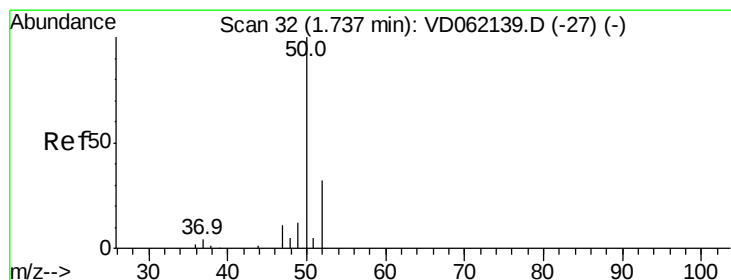
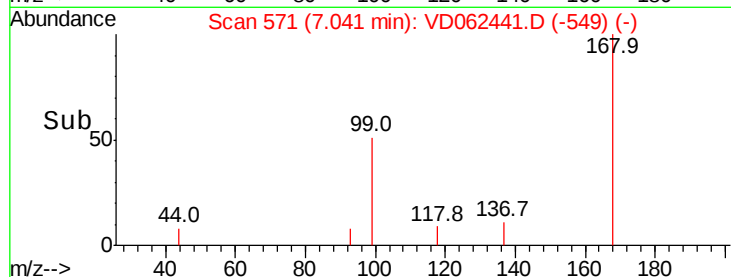
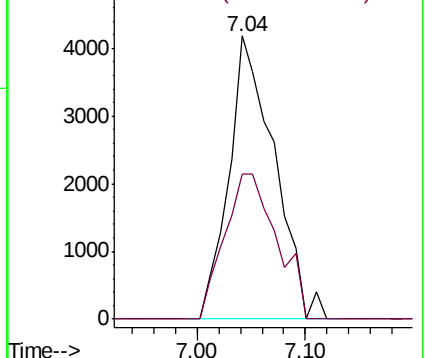
168 100

99 51.2 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#3

Chloromethane

Concen: 2.258 ug/l

RT: 1.77 min Scan# 35

Delta R.T. 0.03 min

Lab File: VD062441.D

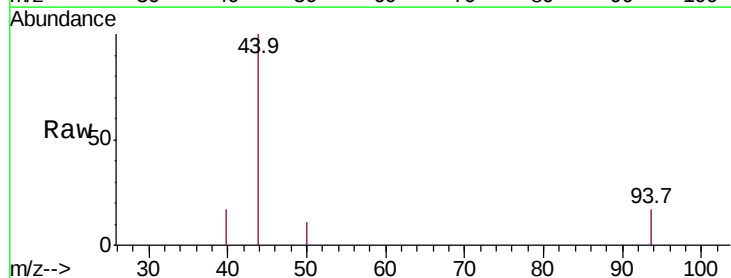
Acq: 17 May 2019 16:09

Tgt Ion: 50 Resp: 190

Ion Ratio Lower Upper

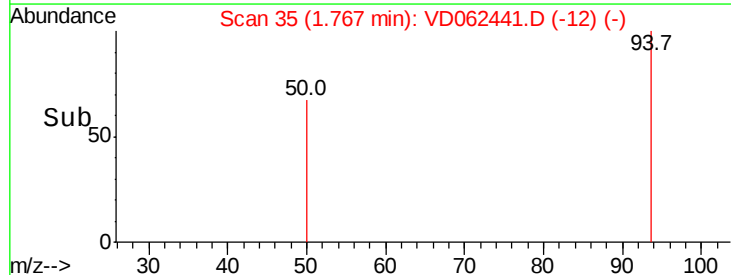
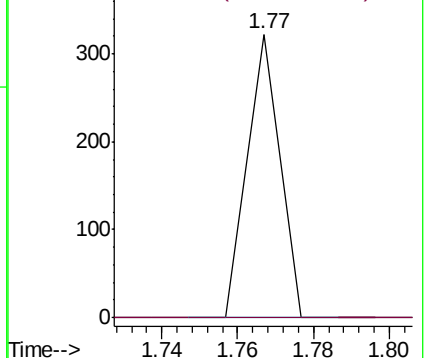
50 100

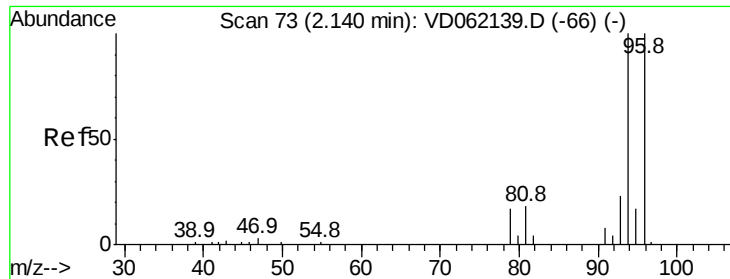
52 0.0 25.2 37.8#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: 9.494 ug/l

RT: 2.17 min Scan# 76

Delta R.T. 0.03 min

Lab File: VD062441.D

Acq: 17 May 2019 16:09

Instrument :

MSVOA_D

ClientSampleId :

RO-COMP-2

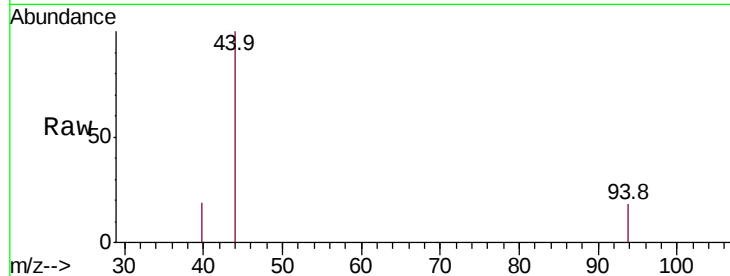
Tot Ion: 94 Resp: 184

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

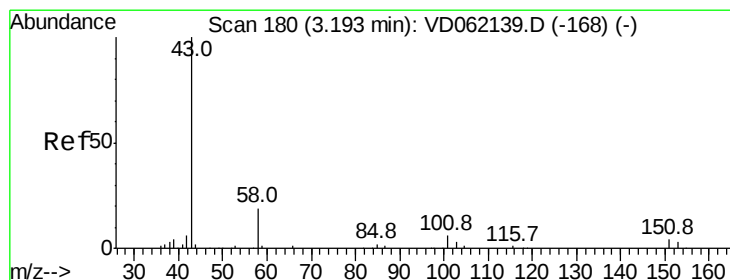
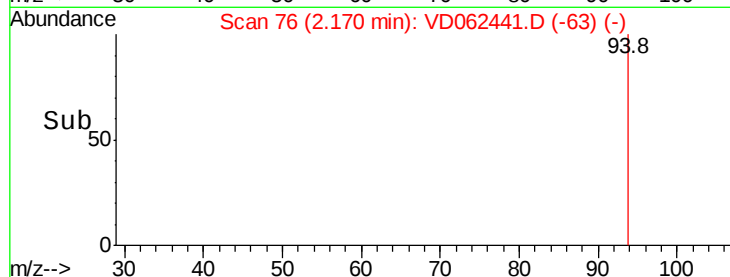
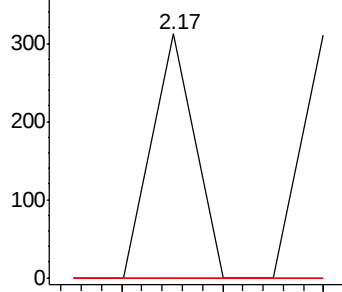
93 0.0 18.5 27.7#



Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC



#16

Acetone

Concen: 22.711 ug/l

RT: 3.20 min Scan# 181

Delta R.T. 0.01 min

Lab File: VD062441.D

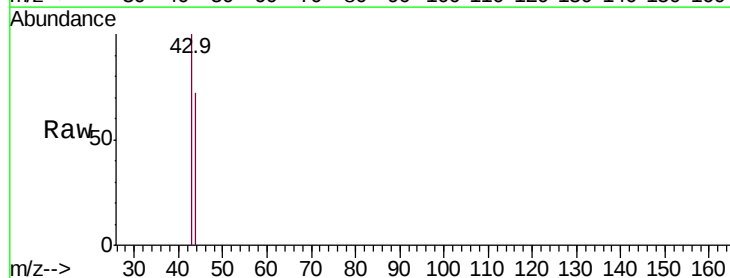
Acq: 17 May 2019 16:09

Tgt Ion: 43 Resp: 539

Ion Ratio Lower Upper

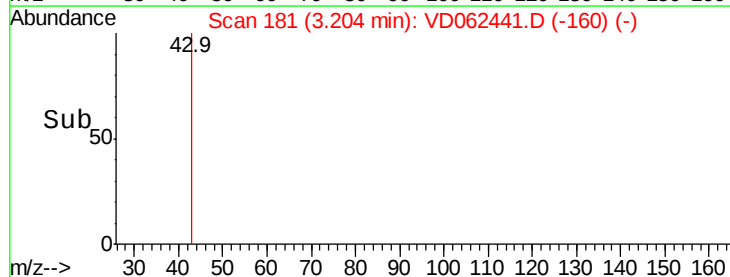
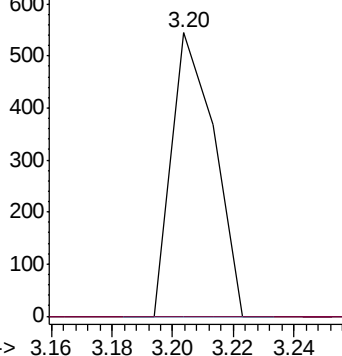
43 100

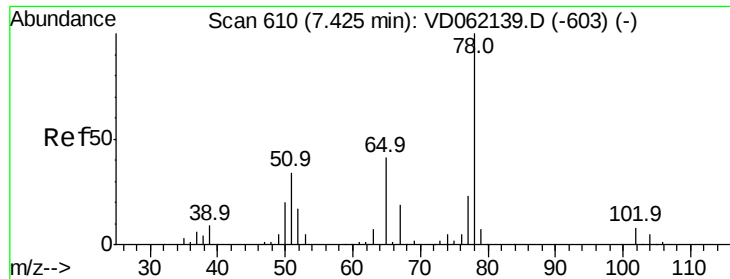
58 0.0 19.9 29.9#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#33

1,2-Dichloroethane-d4

Concen: 51.718 ug/l

RT: 7.44 min Scan# 612

Delta R.T. 0.02 min

Lab File: VD062441.D

Acq: 17 May 2019 16:09

Instrument :

MSVOA_D

ClientSampleId :

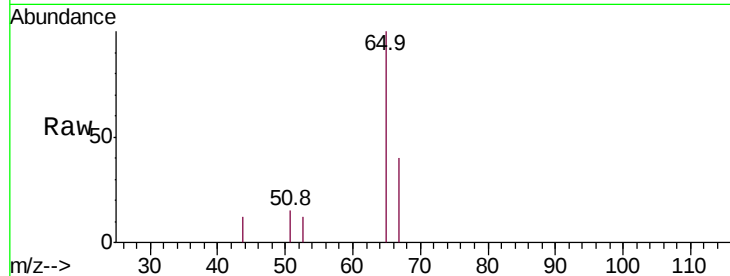
RO-COMP-2

Tot Ion: 65 Resp: 5853

Ion Ratio Lower Upper

65 100

67 40.0 0.0 98.0



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.44

3000

2500

2000

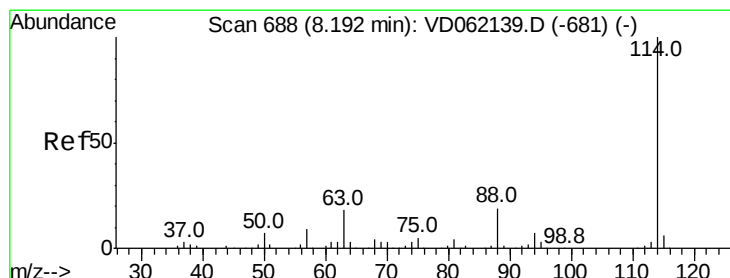
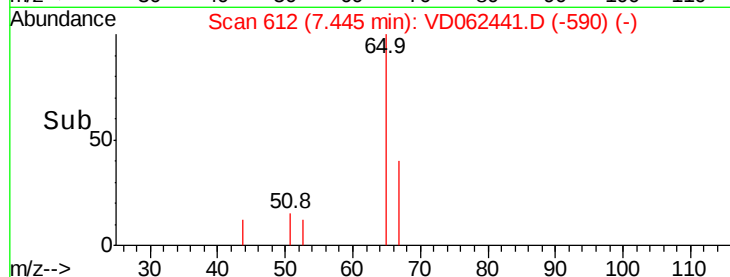
1500

1000

500

0

Time--> 7.35 7.40 7.45 7.50



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.22 min Scan# 691

Delta R.T. 0.03 min

Lab File: VD062441.D

Acq: 17 May 2019 16:09

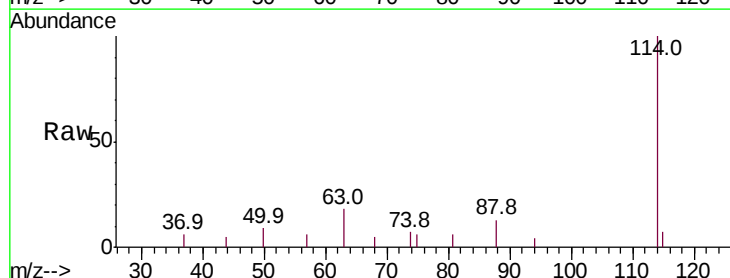
Tgt Ion:114 Resp: 17231

Ion Ratio Lower Upper

114 100

63 17.5 0.0 32.4

88 12.9 0.0 33.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

8.22

8000

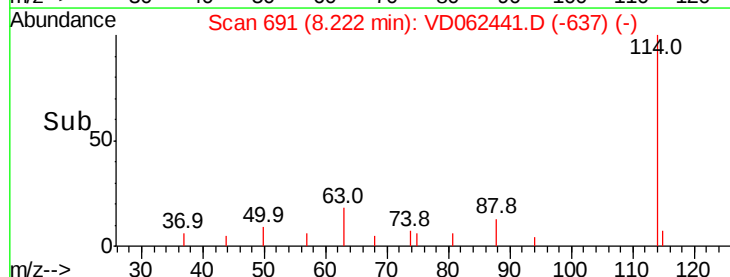
6000

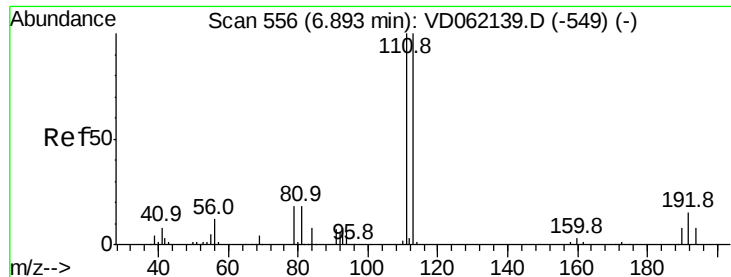
4000

2000

0

Time--> 8.10 8.20 8.30





#35

Dibromofluoromethane

Concen: 31.916 ug/l

RT: 6.91 min Scan# 558

Delta R.T. 0.02 min

Lab File: VD062441.D

Acq: 17 May 2019 16:09

Instrument :

MSVOA_D

ClientSampleId :

RO-COMP-2

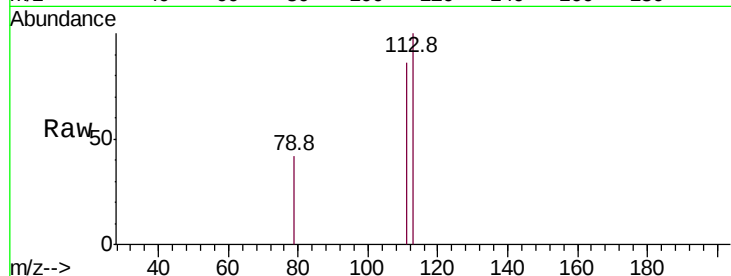
Tot Ion:113 Resp: 4563

Ion Ratio Lower Upper

113 100

111 85.9 78.5 117.7

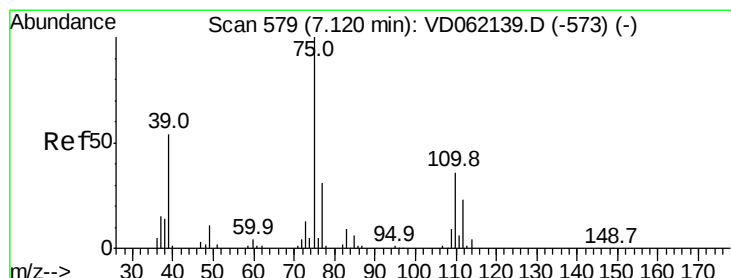
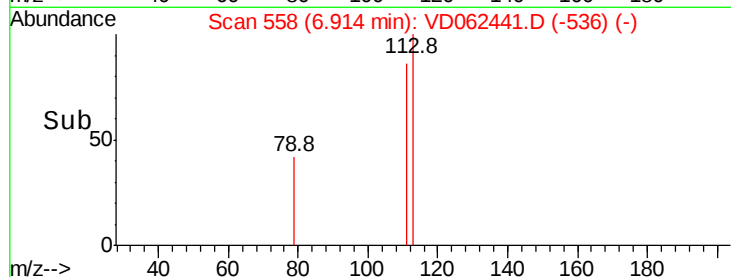
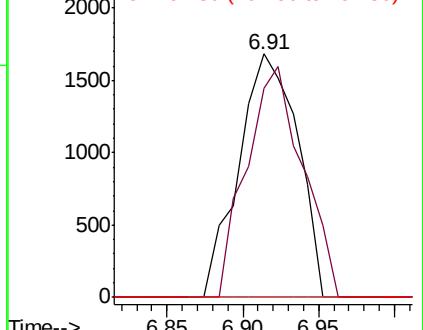
192 0.0 13.0 19.4#



Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 1.281 ug/l

RT: 7.03 min Scan# 570

Delta R.T. -0.09 min

Lab File: VD062441.D

Acq: 17 May 2019 16:09

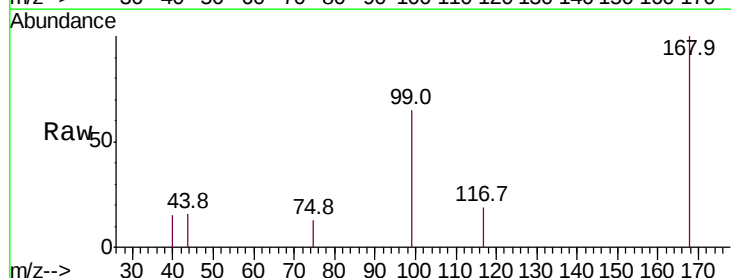
Tgt Ion: 75 Resp: 181

Ion Ratio Lower Upper

75 100

110 0.0 19.1 57.1#

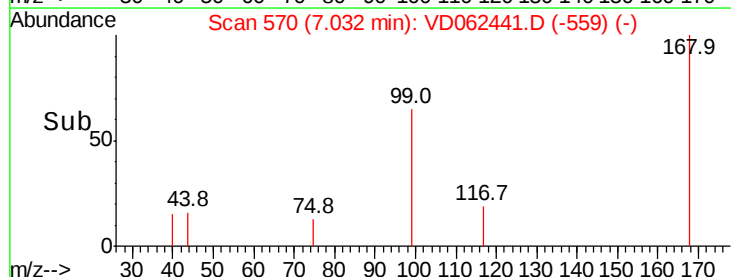
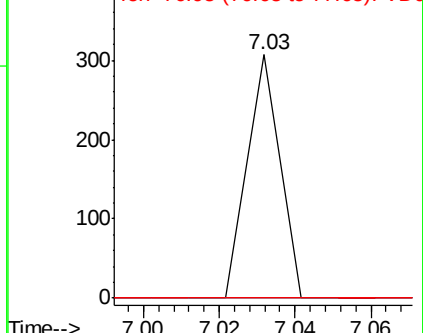
77 0.0 25.6 38.4#

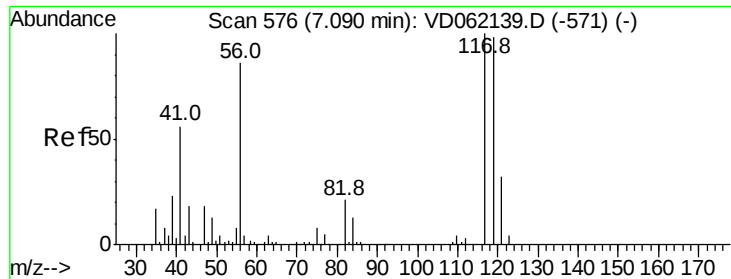


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V





#38

Carbon Tetrachloride

Concen: 2.450 ug/l

RT: 7.03 min Scan# 570

Delta R.T. -0.06 min

Lab File: VD062441.D

Acq: 17 May 2019 16:09

Instrument :

MSVOA_D

ClientSampleId :

RO-COMP-2

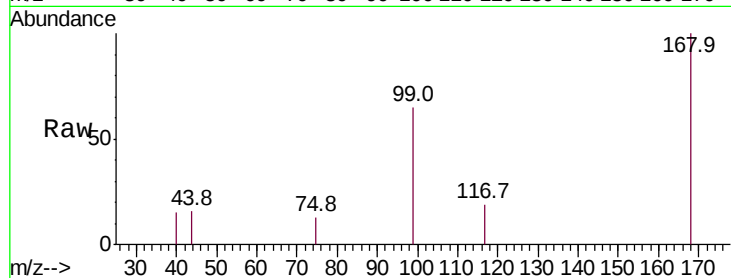
Tot Ion:117 Resp: 479

Ion Ratio Lower Upper

117 100

119 0.0 75.8 113.8#

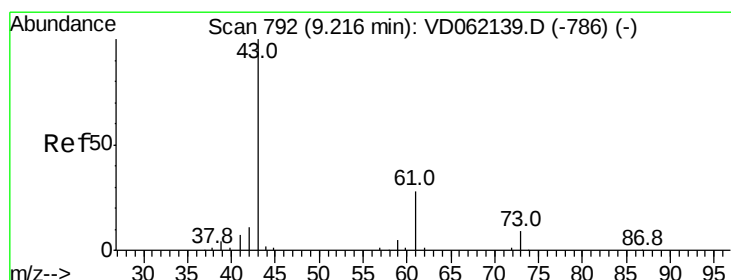
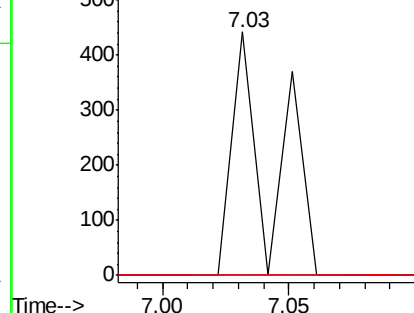
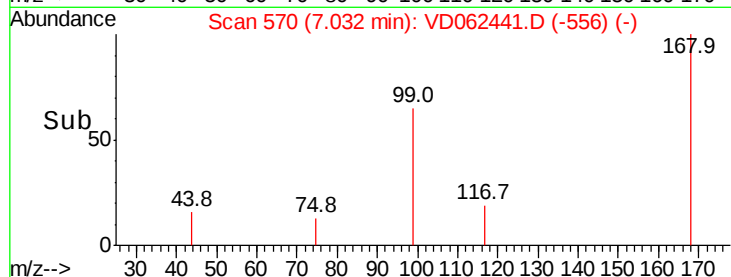
121 0.0 25.9 38.9#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V



#43

Isopropyl Acetate

Concen: 2.330 ug/l

RT: 9.35 min Scan# 806

Delta R.T. 0.14 min

Lab File: VD062441.D

Acq: 17 May 2019 16:09

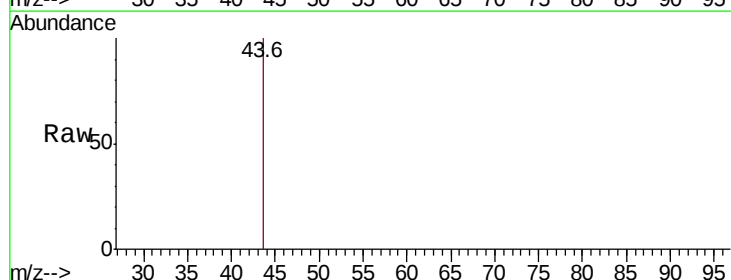
Tgt Ion: 43 Resp: 198

Ion Ratio Lower Upper

43 100

61 0.0 25.1 37.7#

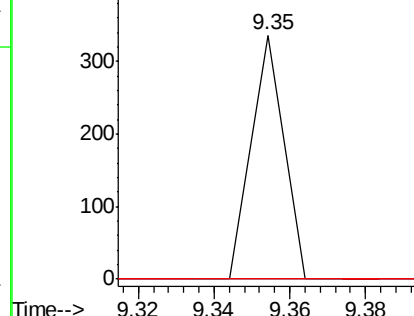
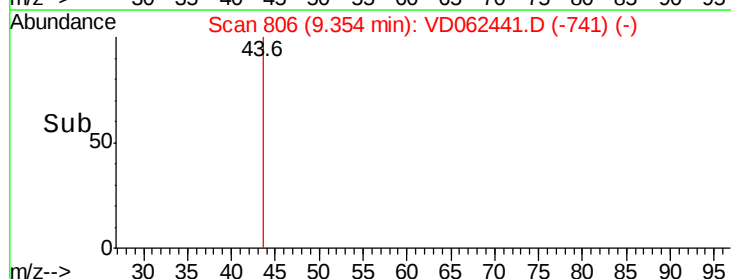
87 0.0 0.0 0.0

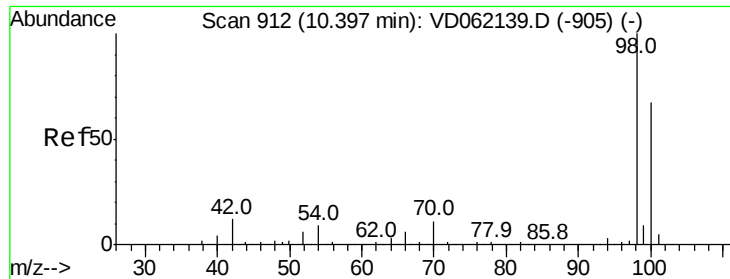


Abundance Ion 42.95 (42.65 to 43.65): V

Ion 60.95 (60.65 to 61.65): V

Ion 87.00 (86.70 to 87.70): V

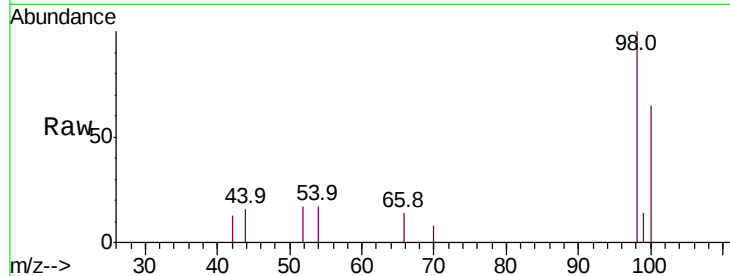




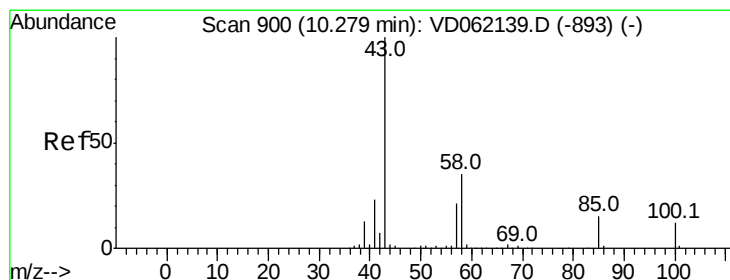
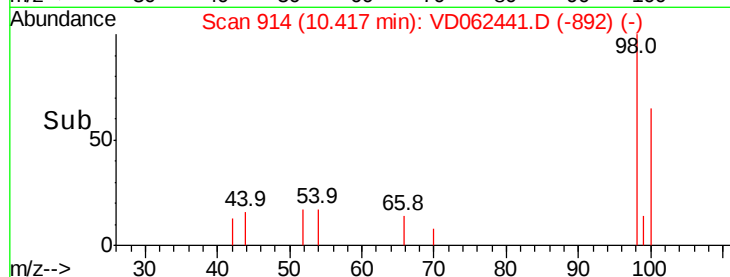
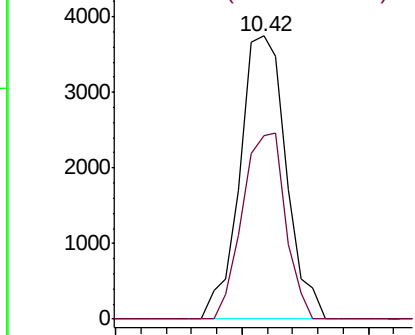
#50
Toluene-d8
Concen: 27.676 ug/l
RT: 10.42 min Scan# 914
Delta R.T. 0.02 min
Lab File: VD062441.D
Acq: 17 May 2019 16:09

Instrument :
MSVOA_D
ClientSampleId :
RO-COMP-2

Tot Ion: 98 Resp: 9540
Ion Ratio Lower Upper
98 100
100 64.8 53.8 80.8

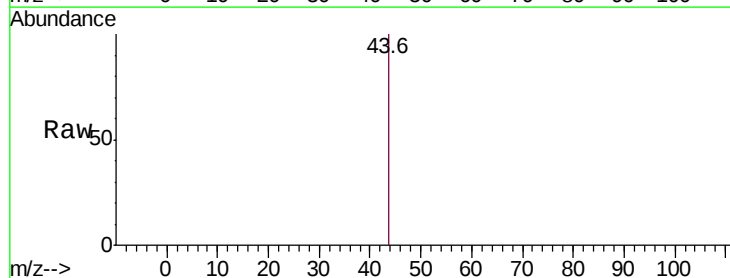


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

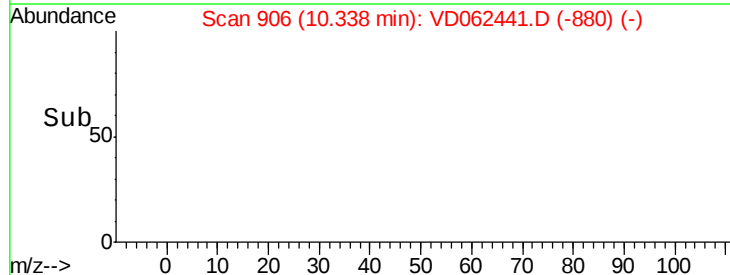
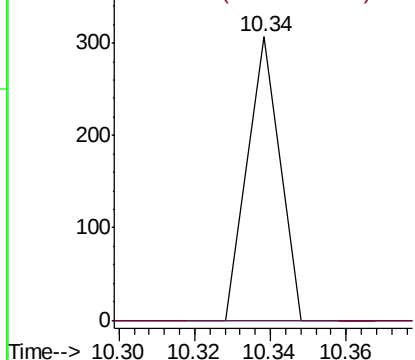


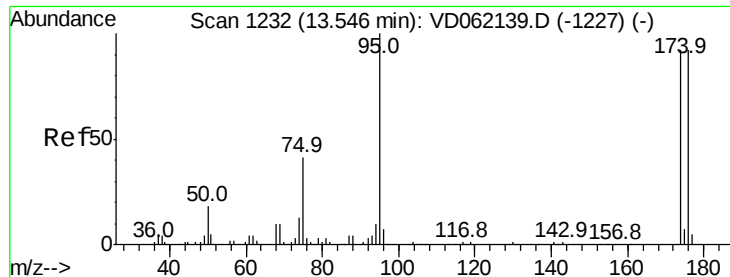
#51
4-Methyl-2-Pentanone
Concen: 3.314 ug/l
RT: 10.34 min Scan# 906
Delta R.T. 0.06 min
Lab File: VD062441.D
Acq: 17 May 2019 16:09

Tgt Ion: 43 Resp: 181
Ion Ratio Lower Upper
43 100
58 0.0 30.4 45.6#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC

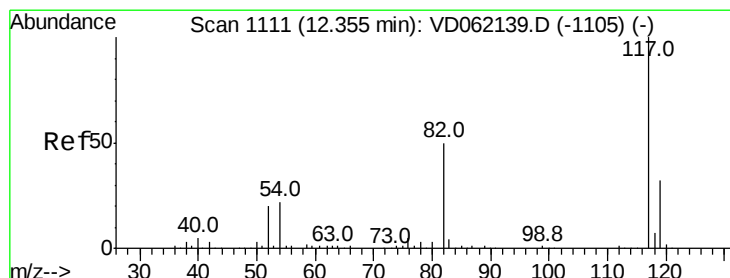
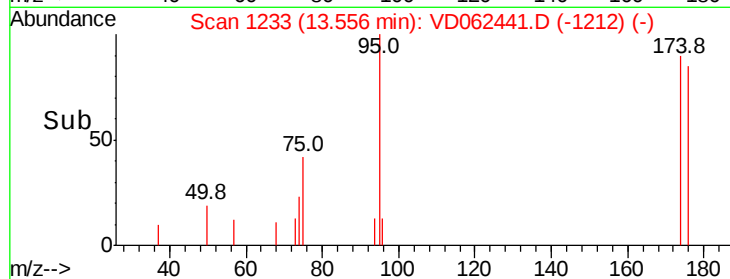
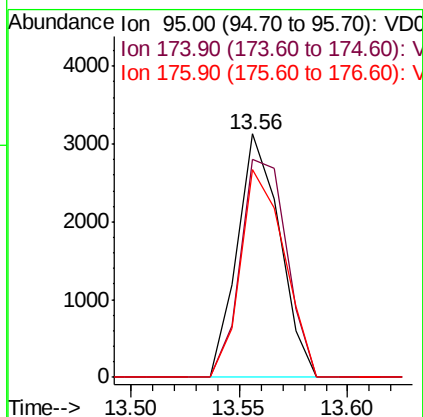
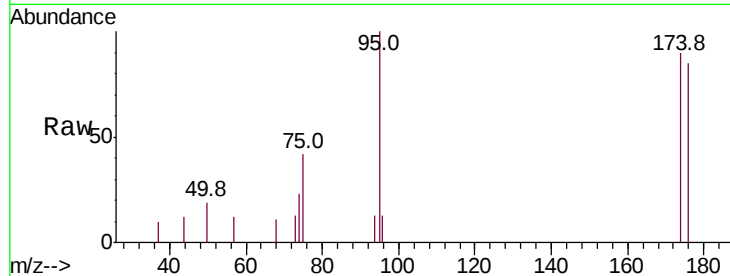




#62
 4-Bromofluorobenzene
 Concen: 30.761 ug/l
 RT: 13.56 min Scan# 1233
 Delta R.T. 0.01 min
 Lab File: VD062441.D
 Acq: 17 May 2019 16:09

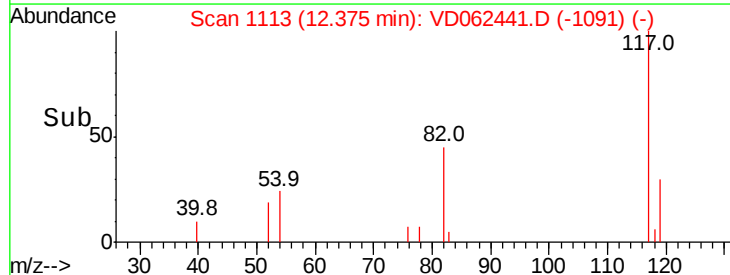
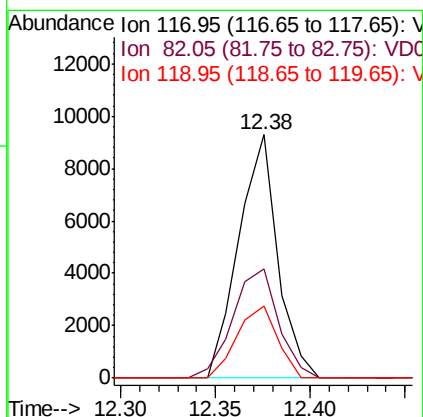
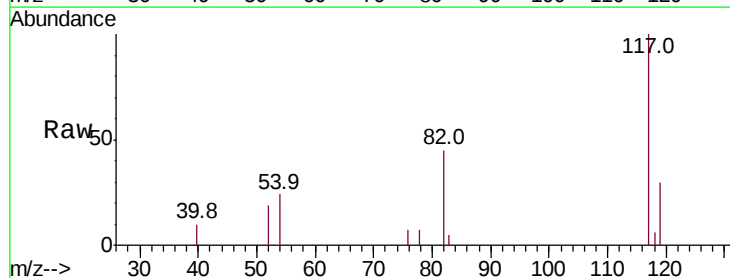
Instrument :
 MSVOA_D
 ClientSampleId :
 RO-COMP-2

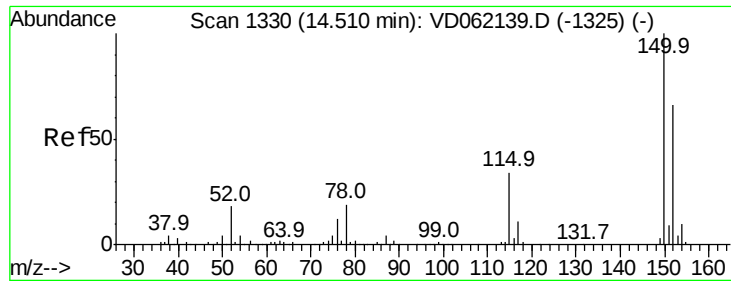
Tot Ion: 95 Resp: 4258
 Ion Ratio Lower Upper
 95 100
 174 89.6 0.0 181.8
 176 85.5 0.0 174.4



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 12.38 min Scan# 1113
 Delta R.T. 0.02 min
 Lab File: VD062441.D
 Acq: 17 May 2019 16:09

Tgt Ion: 117 Resp: 13211
 Ion Ratio Lower Upper
 117 100
 82 49.7 36.2 54.2
 119 29.6 26.2 39.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1331

Delta R.T. 0.01 min

Lab File: VD062441.D

Acq: 17 May 2019 16:09

Instrument :

MSVOA_D

ClientSampleId :

RO-COMP-2

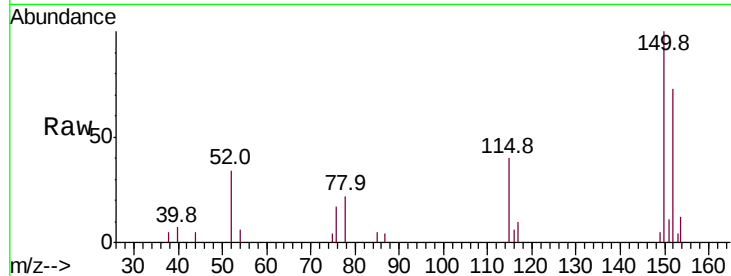
Tot Ion:152 Resp: 6549

Ion Ratio Lower Upper

152 100

115 54.4 30.9 92.7

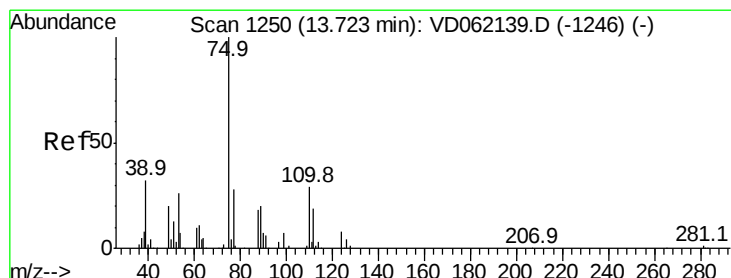
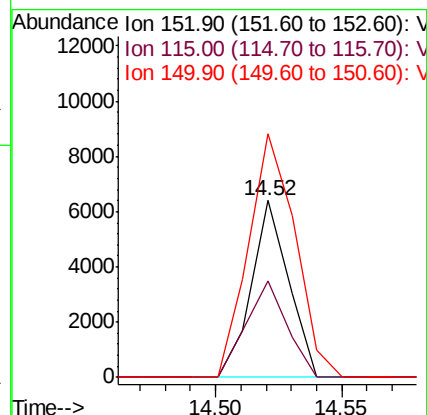
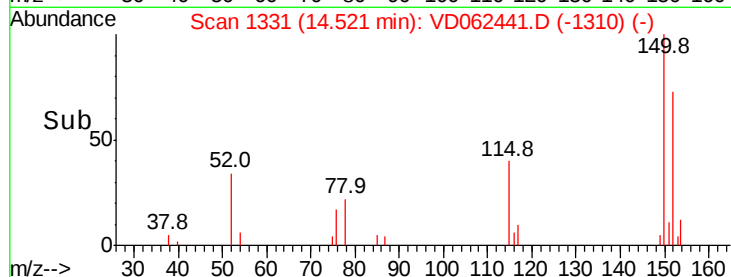
150 137.7 0.0 314.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 20.648 ug/l

RT: 13.57 min Scan# 1234

Delta R.T. -0.16 min

Lab File: VD062441.D

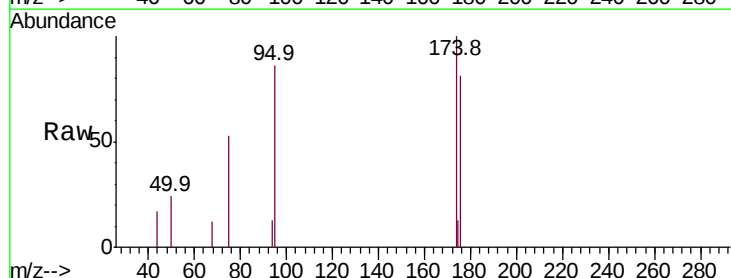
Acq: 17 May 2019 16:09

Tgt Ion: 75 Resp: 1607

Ion Ratio Lower Upper

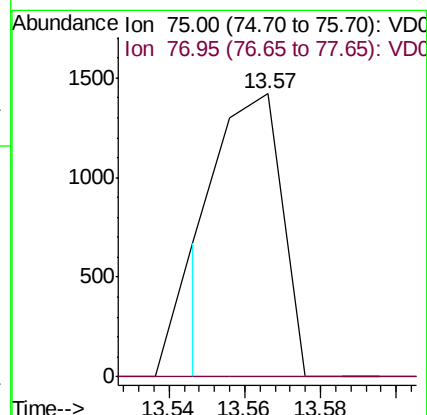
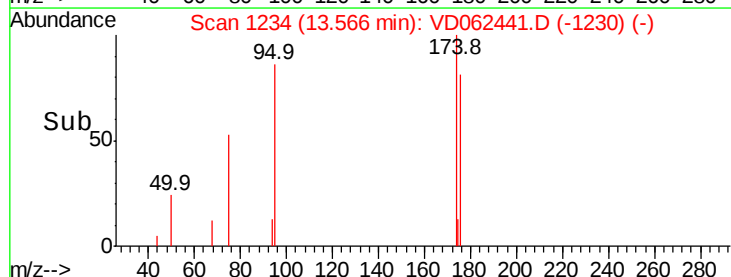
75 100

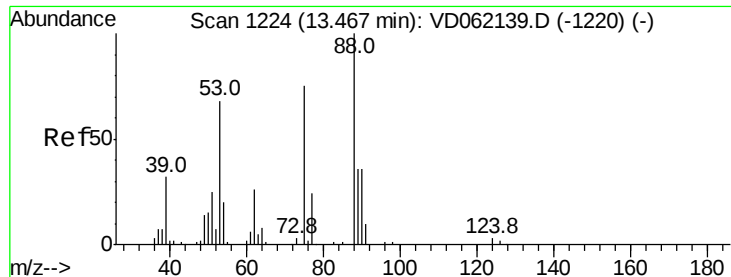
77 0.0 16.4 49.4#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 76.95 (76.65 to 77.65): V





#81

trans-1,4-Dichloro-2-butene

Concen: 91.072 ug/l

RT: 13.57 min Scan# 1234

Delta R.T. 0.10 min

Lab File: VD062441.D

Acq: 17 May 2019 16:09

Instrument :

MSVOA_D

ClientSampleId :

RO-COMP-2

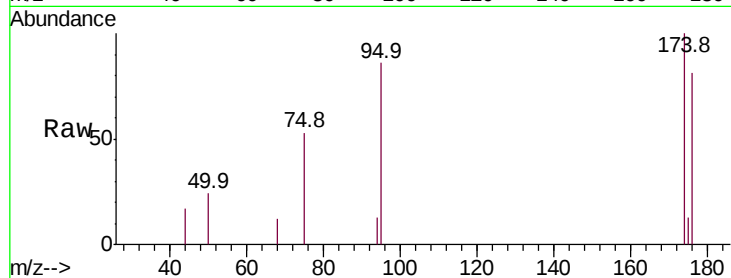
Tot Ion: 75 Resp: 2001

Ion Ratio Lower Upper

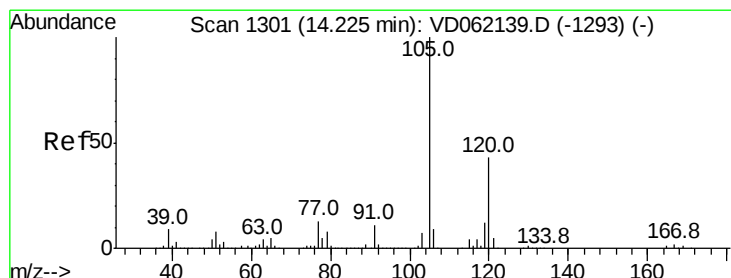
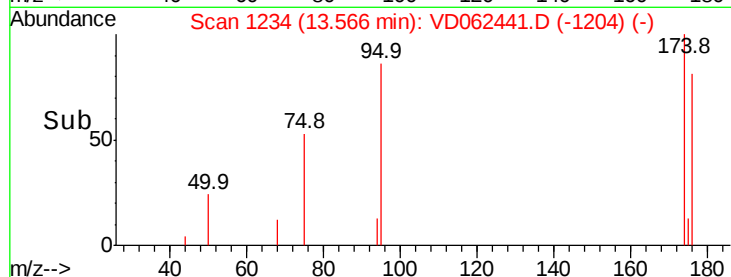
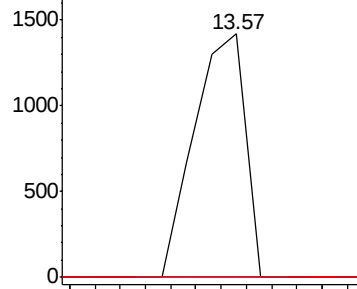
75 100

53 0.0 65.8 98.8#

89 0.0 35.0 52.6#



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 53.00 (52.70 to 53.70): VDC
Ion 89.00 (88.70 to 89.70): VDC



#84

1,2,4-Trimethylbenzene

Concen: 2.228 ug/l

RT: 14.24 min Scan# 1303

Delta R.T. 0.02 min

Lab File: VD062441.D

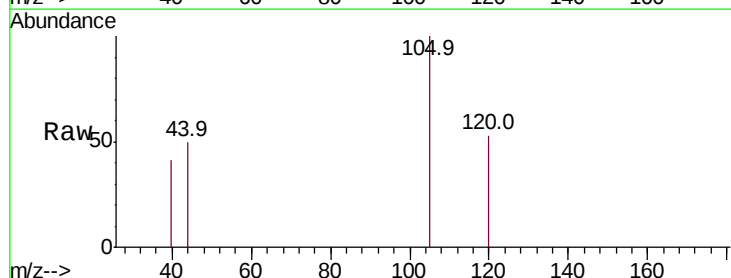
Acq: 17 May 2019 16:09

Tgt Ion: 105 Resp: 739

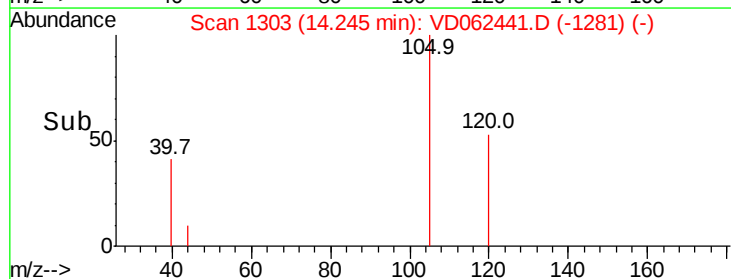
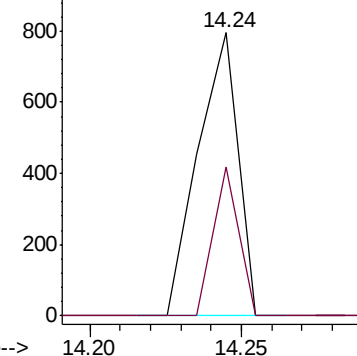
Ion Ratio Lower Upper

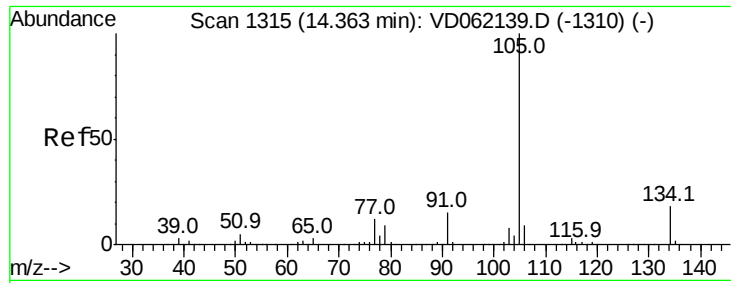
105 100

120 52.7 23.1 69.2



Abundance Ion 105.05 (104.75 to 105.75): V
Ion 120.05 (119.75 to 120.75): V





#85

sec-Butylbenzene

Concen: 1.814 ug/l

RT: 14.24 min Scan# 1303

Delta R.T. -0.12 min

Lab File: VD062441.D

Acq: 17 May 2019 16:09

Instrument :

MSVOA_D

ClientSampleId :

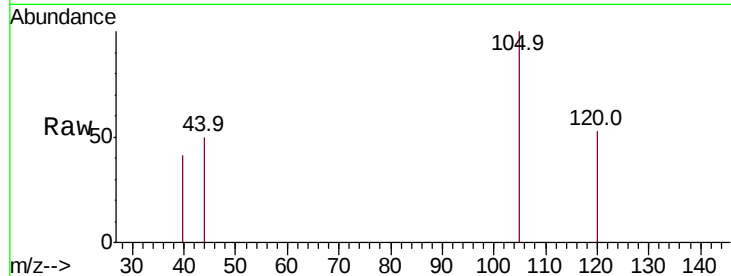
RO-COMP-2

Tot Ion:105 Resp: 739

Ion Ratio Lower Upper

105 100

134 0.0 8.9 26.7#



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V

14.24

800

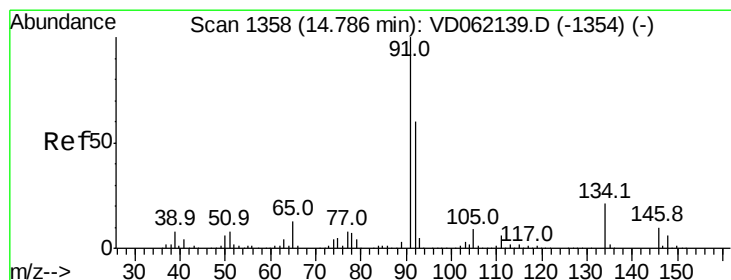
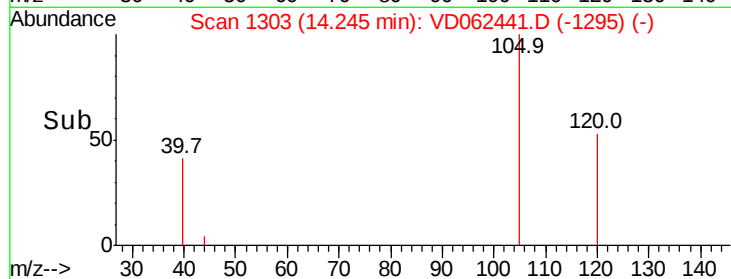
600

400

200

0

Time--> 14.20 14.25



#89

n-Butylbenzene

Concen: 1.328 ug/l

RT: 14.79 min Scan# 1358

Delta R.T. 0.00 min

Lab File: VD062441.D

Acq: 17 May 2019 16:09

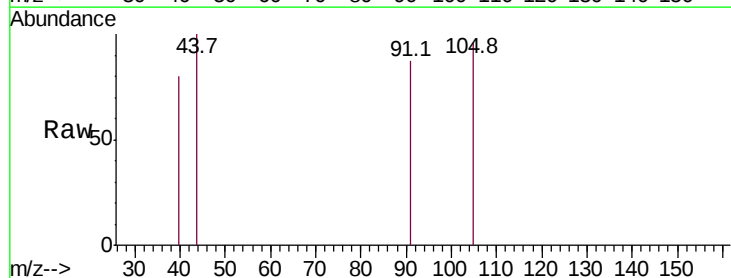
Tgt Ion: 91 Resp: 434

Ion Ratio Lower Upper

91 100

92 0.0 30.3 91.0#

134 0.0 14.5 43.6#



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V

Ion 134.10 (133.80 to 134.80): V

500

400

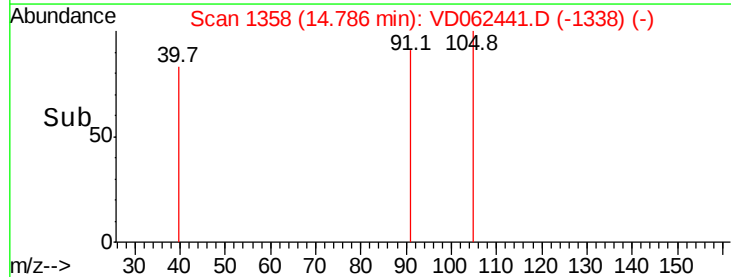
300

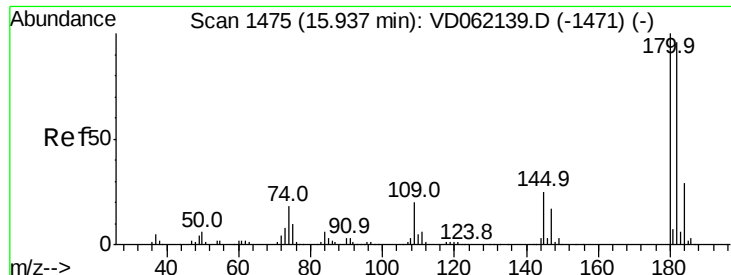
200

100

0

Time--> 14.75 14.80

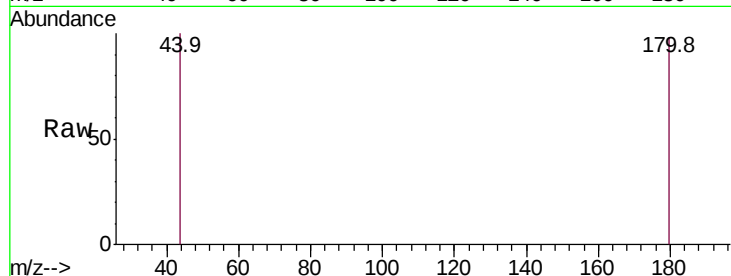




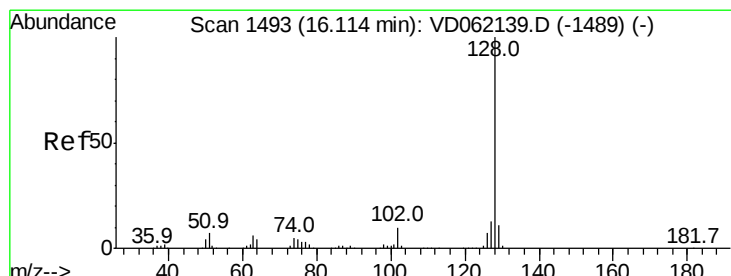
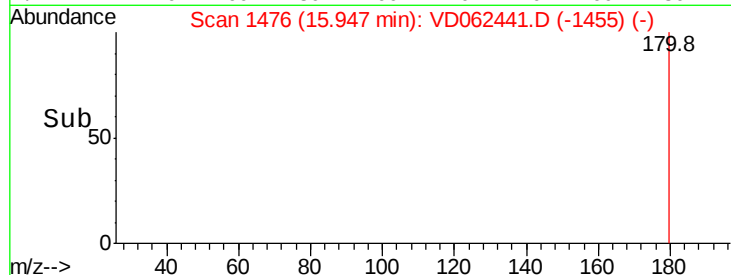
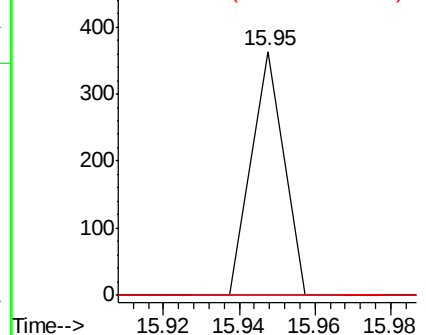
#93
 1,2,4-Trichlorobenzene
 Concen: 1.778 ug/l
 RT: 15.95 min Scan# 1476
 Delta R.T. 0.01 min
 Lab File: VD062441.D
 Acq: 17 May 2019 16:09

Instrument :
 MSVOA_D
 ClientSampleId :
 RO-COMP-2

Tot Ion:180 Resp: 214
 Ion Ratio Lower Upper
 180 100
 182 0.0 49.3 147.8#
 145 0.0 16.2 48.6#

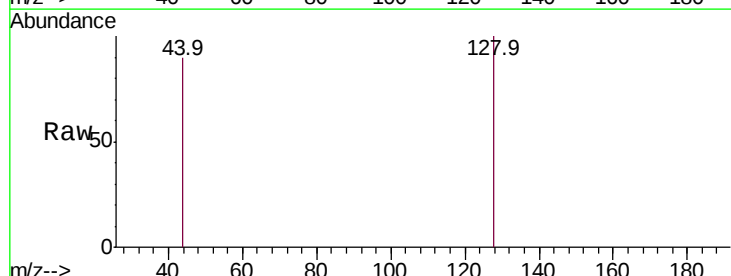


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V



#95
 Naphthalene
 Concen: 2.845 ug/l
 RT: 16.12 min Scan# 1494
 Delta R.T. 0.01 min
 Lab File: VD062441.D
 Acq: 17 May 2019 16:09

Tgt Ion:128 Resp: 478
 Ion Ratio Lower Upper
 128 100
 127 0.0 9.8 14.8#
 129 0.0 8.8 13.2#



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

