

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD060319\
 Data File : VD062589.D
 Acq On : 3 Jun 2019 16:51
 Operator : VA/AP
 Sample : K3165-01RE
 Misc : 5.10g/5ml/MSVOA D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 04 05:52:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D053019S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 31 02:08:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	389390	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	8.22	114	635367	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	548251	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	14.52	152	240884	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	265437	58.14	ug/l	-0.02
Spiked Amount			Recovery	=	116.28%	
35) Dibromofluoromethane	6.92	113	258421	44.63	ug/l	-0.02
Spiked Amount			Recovery	=	89.26%	
50) Toluene-d8	10.41	98	477141	37.61	ug/l	-0.02
Spiked Amount			Recovery	=	75.22%	
62) 4-Bromofluorobenzene	13.56	95	214636	37.52	ug/l	0.00
Spiked Amount			Recovery	=	75.04%	

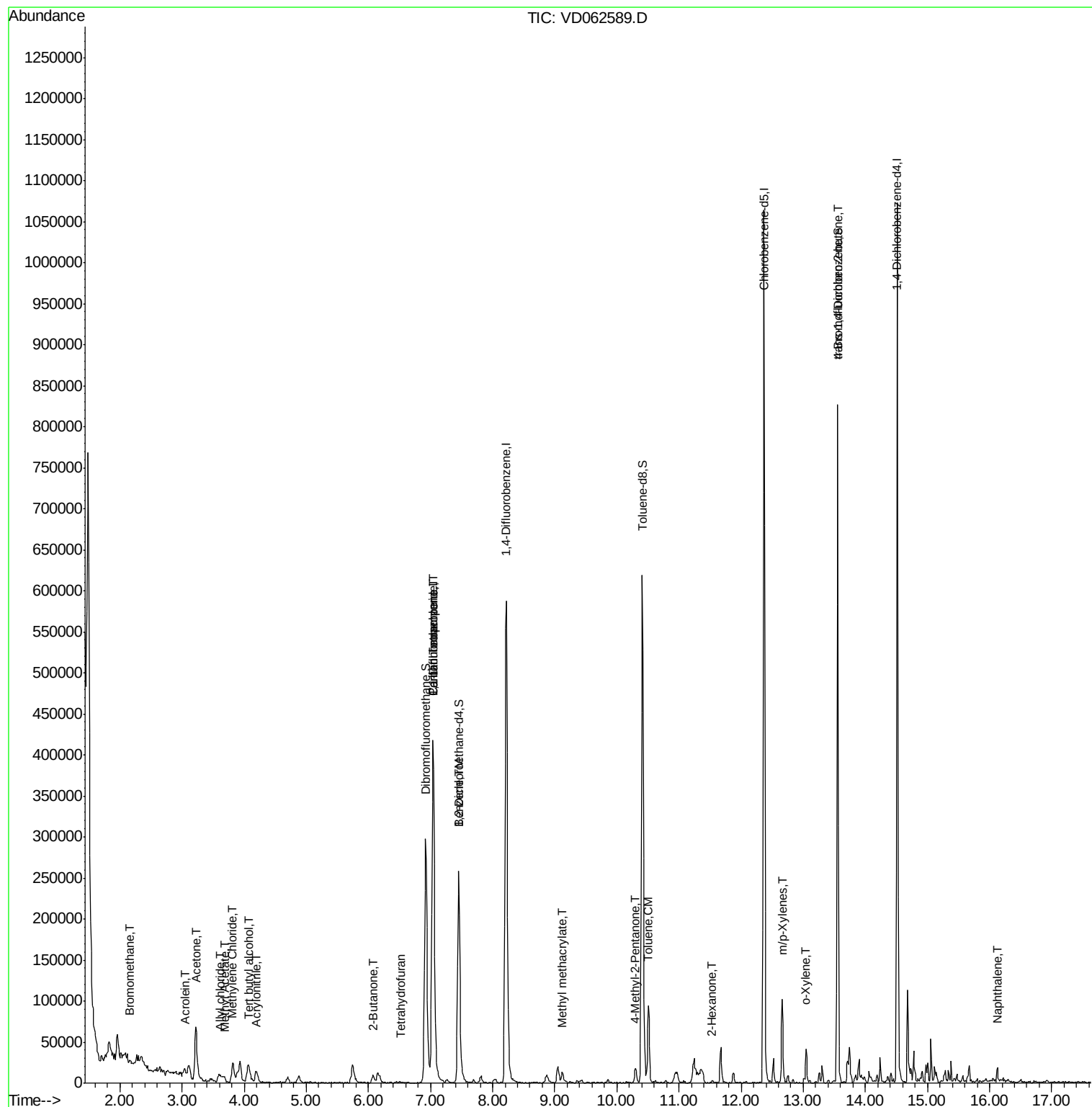
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.75	50	2132	Below Cal	#	43
5) Bromomethane	2.17	94	1614	1.441	ug/l #	12
11) Tert butyl alcohol	4.07	59	45197	232.090	ug/l #	81
13) Acrolein	3.04	56	6626	78.089	ug/l	85
14) Allyl chloride	3.61	41	17965	3.776	ug/l #	31
15) Acrylonitrile	4.19	53	11236	24.136	ug/l	94
16) Acetone	3.22	43	137585	153.371	ug/l	97
18) Methyl Acetate	3.67	43	4924	3.363	ug/l #	63
20) Methylene Chloride	3.82	84	12430	3.743	ug/l #	91
25) 2-Butanone	6.08	43	18293	21.652	ug/l	95
29) Tetrahydrofuran	6.53	42	422	1.115	ug/l #	33
36) 1,1-Dichloropropene	7.04	75	33517	5.299	ug/l #	45
38) Carbon Tetrachloride	7.04	117	45592	4.842	ug/l #	15
40) Benzene	7.45	78	32114	2.587	ug/l	95
48) Methyl methacrylate	9.13	41	11020	4.986	ug/l #	75
51) 4-Methyl-2-Pentanone	10.30	43	15862	6.851	ug/l	98
52) Toluene	10.51	92	41608	4.914	ug/l	95
59) 2-Hexanone	11.53	43	3910	2.408	ug/l #	62
68) m/p-Xylenes	12.66	106	25968	3.836	ug/l	91
69) o-Xylene	13.05	106	9300	1.440	ug/l	87
81) trans-1,4-Dichloro-2-buten	13.56	75	106535	128.653	ug/l #	5
95) Naphthalene	16.13	128	12505	1.809	ug/l	97

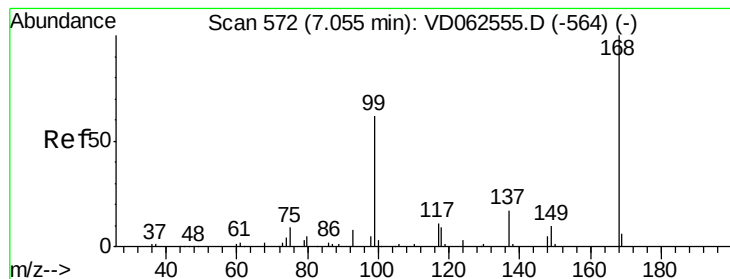
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jun 04 05:52:17 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D053019S.M
Quant Title : SW846 8260
QLast Update : Fri May 31 02:08:29 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.02 min

Lab File: VD062589.D

Acq: 3 Jun 2019 16:51

Instrument :

MSVOA_D

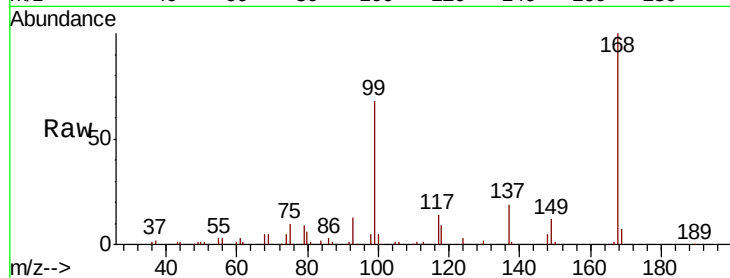
ClientSampleId :

Tot Ion:168 Resp: 389390

Ion Ratio Lower Upper

168 100

99 67.9 50.8 76.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

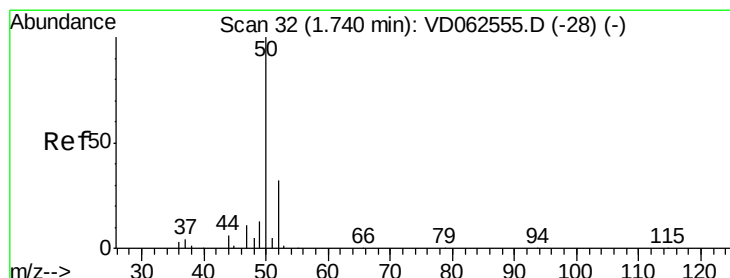
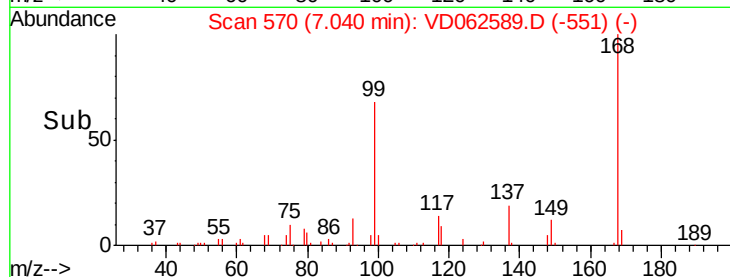
7.04

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.75 min Scan# 33

Delta R.T. 0.01 min

Lab File: VD062589.D

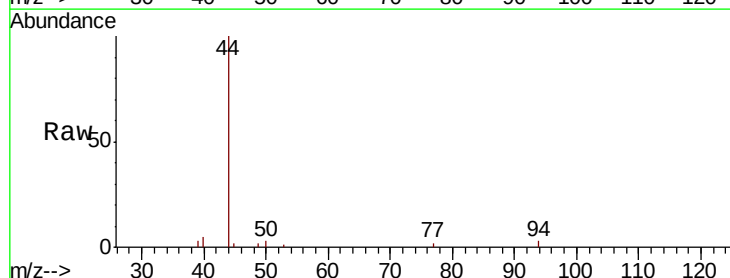
Acq: 3 Jun 2019 16:51

Tgt Ion: 50 Resp: 2132

Ion Ratio Lower Upper

50 100

52 0.0 25.4 38.2#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

1000

800

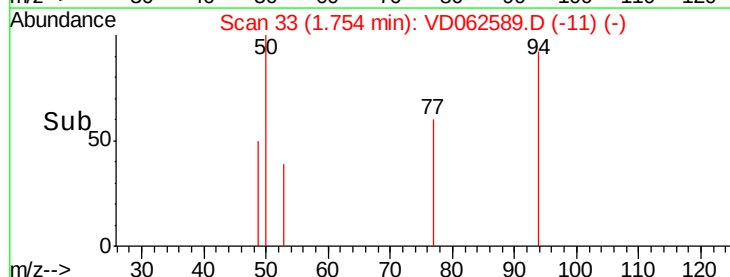
600

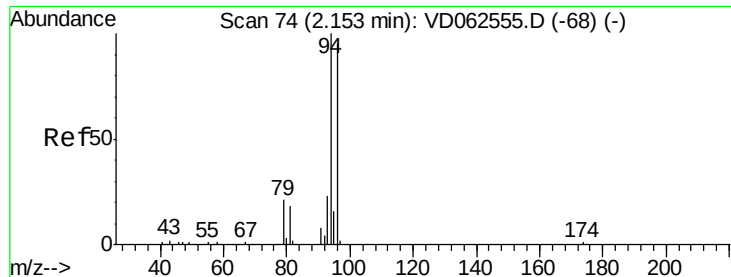
400

200

0

Time-->





#5

Bromomethane

Concen: 1.441 ug/l

RT: 2.17 min Scan# 75

Delta R.T. 0.01 min

Lab File: VD062589.D

Acq: 3 Jun 2019 16:51

Instrument :

MSVOA_D

ClientSampleId :

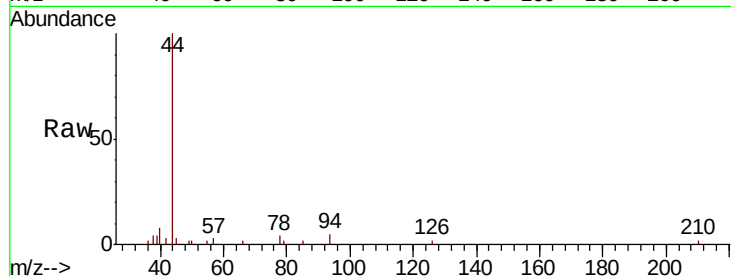
Tot Ion: 94 Resp: 1614

Ion Ratio Lower Upper

94 100

96 0.0 76.2 114.4#

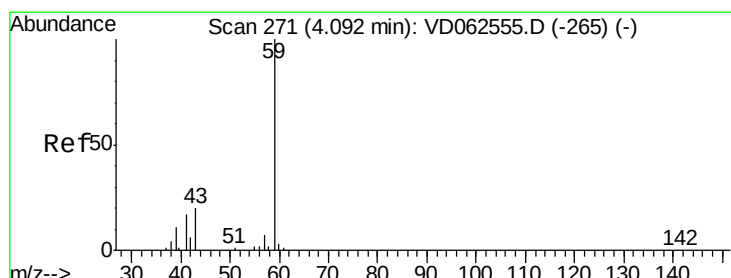
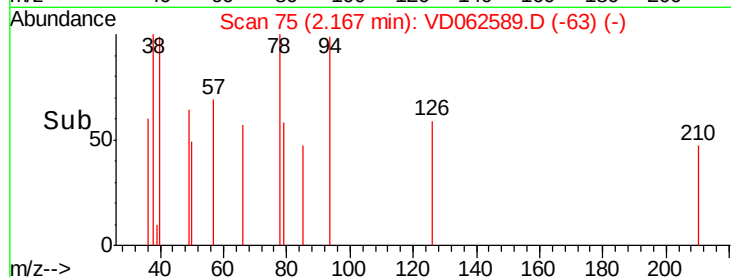
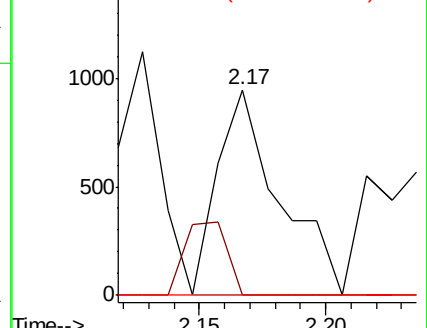
93 0.0 18.4 27.6#



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



#11

Tert butyl alcohol

Concen: 232.090 ug/l

RT: 4.07 min Scan# 268

Delta R.T. -0.03 min

Lab File: VD062589.D

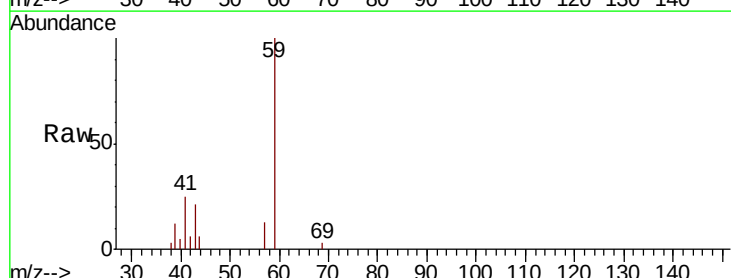
Acq: 3 Jun 2019 16:51

Tgt Ion: 59 Resp: 45197

Ion Ratio Lower Upper

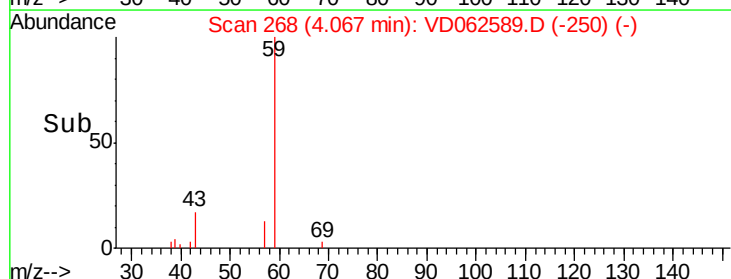
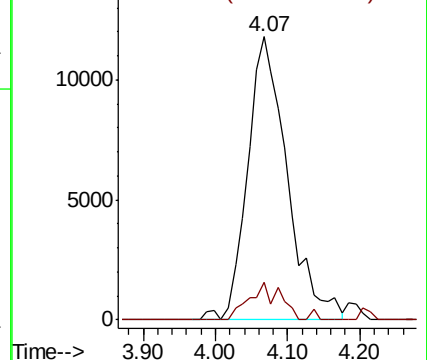
59 100

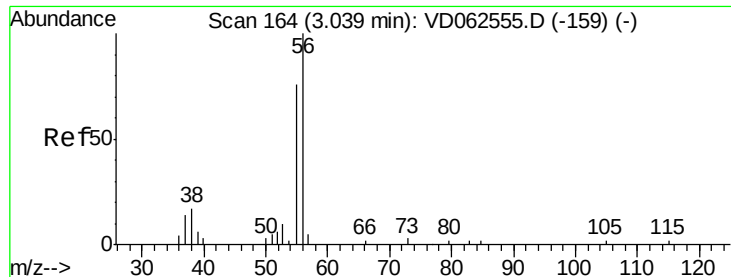
57 13.4 5.4 8.0#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#13

Acrolein

Concen: 78.089 ug/l

RT: 3.04 min Scan# 164

Delta R.T. 0.00 min

Lab File: VD062589.D

Acq: 3 Jun 2019 16:51

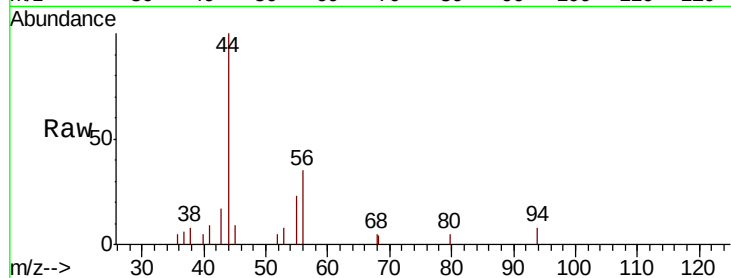
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 56 Resp: 6626

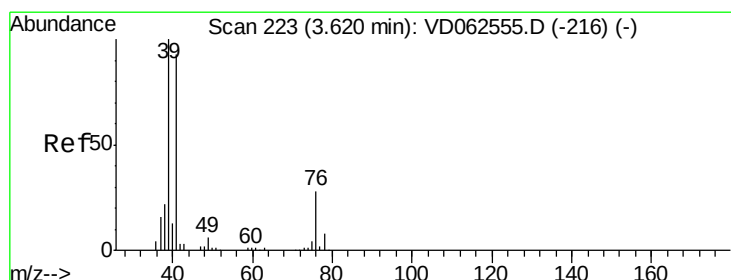
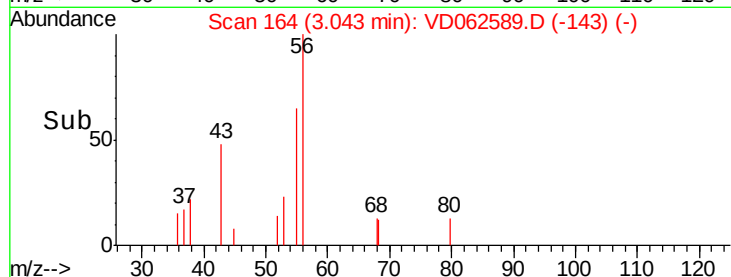
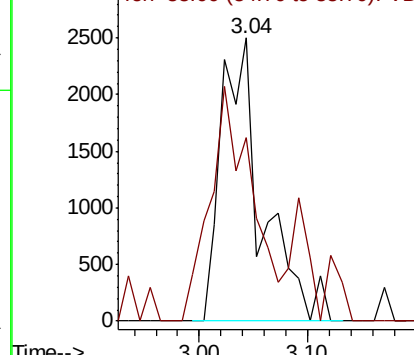
Ion Ratio Lower Upper

56 100

55 64.7 62.6 93.8



Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 3.776 ug/l

RT: 3.61 min Scan# 222

Delta R.T. -0.01 min

Lab File: VD062589.D

Acq: 3 Jun 2019 16:51

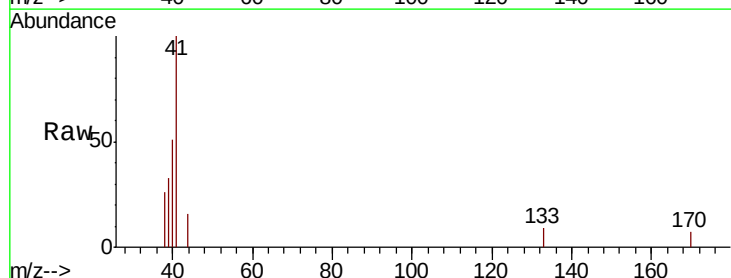
Tgt Ion: 41 Resp: 17965

Ion Ratio Lower Upper

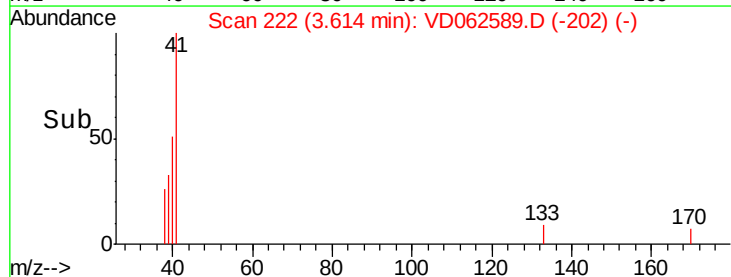
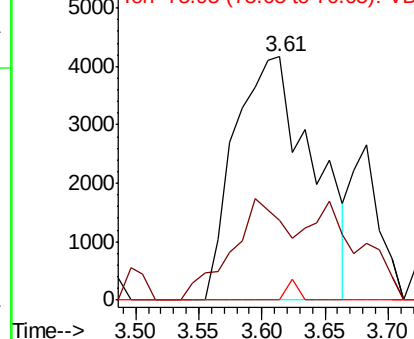
41 100

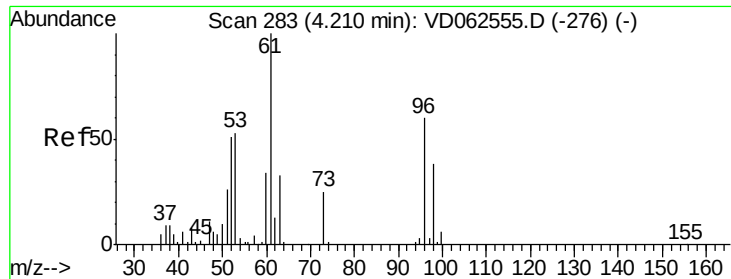
39 32.8 86.3 129.5#

76 0.0 25.5 38.3#



Abundance Ion 41.05 (40.75 to 41.75): VDC
Ion 38.95 (38.65 to 39.65): VDC
Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 24.136 ug/l

RT: 4.19 min Scan# 280

Delta R.T. -0.03 min

Lab File: VD062589.D

Acq: 3 Jun 2019 16:51

Instrument :

MSVOA_D

ClientSampleId :

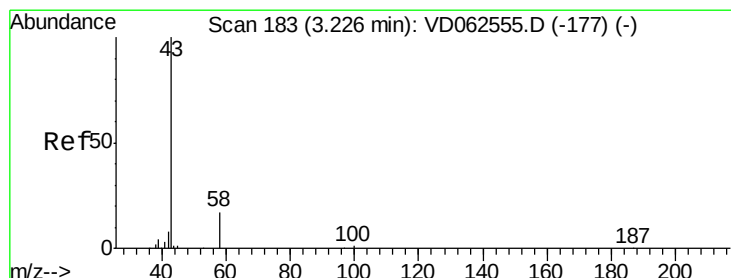
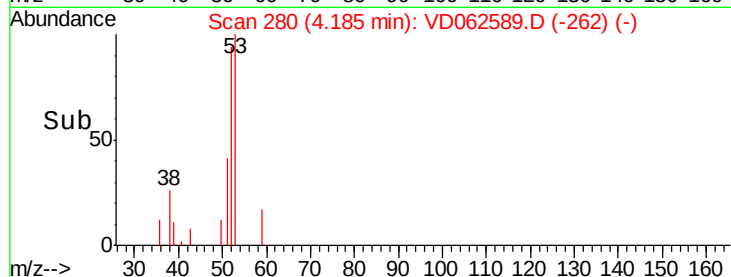
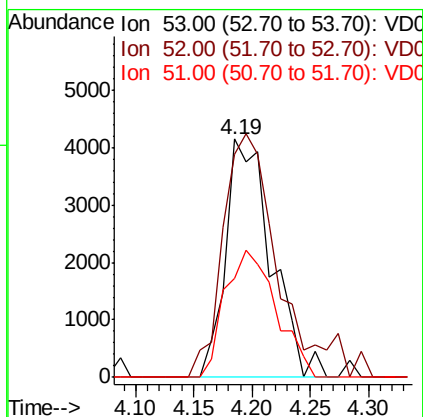
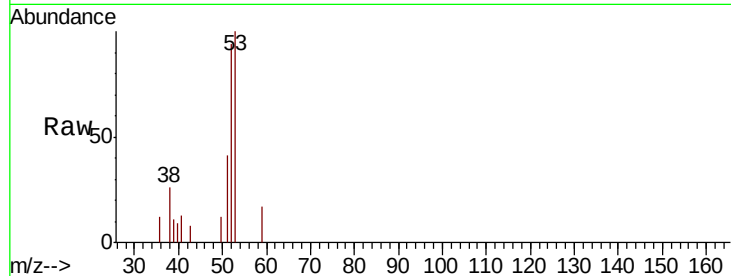
Tot Ion: 53 Resp: 11236

Ion Ratio Lower Upper

53 100

52 93.6 76.2 114.2

51 41.3 40.2 60.4



#16

Acetone

Concen: 153.371 ug/l

RT: 3.22 min Scan# 182

Delta R.T. -0.01 min

Lab File: VD062589.D

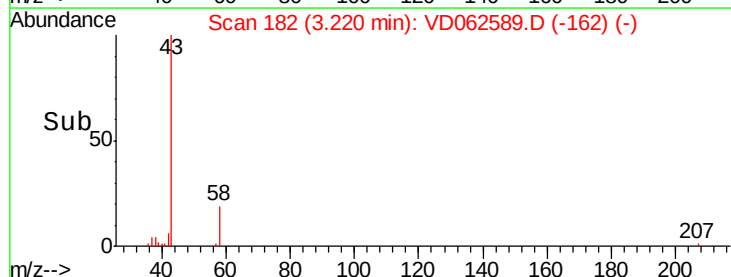
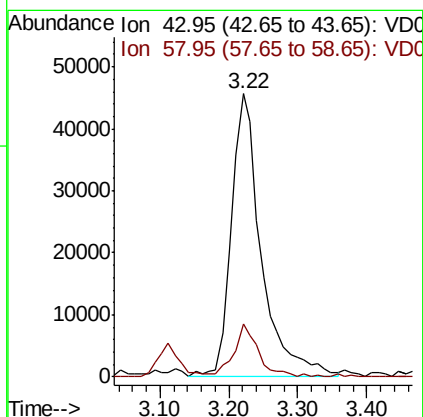
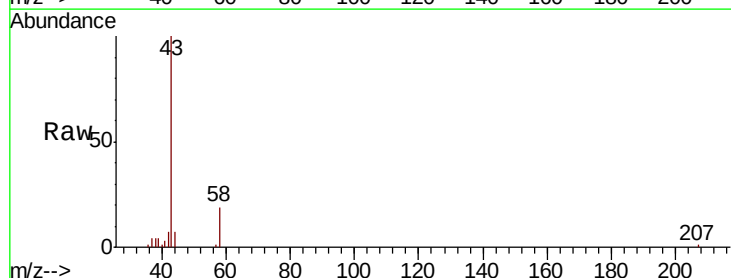
Acq: 3 Jun 2019 16:51

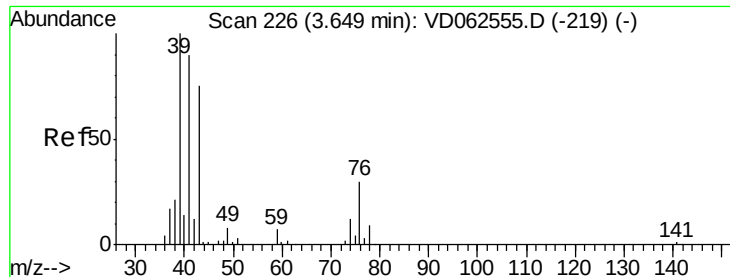
Tgt Ion: 43 Resp: 137585

Ion Ratio Lower Upper

43 100

58 18.5 13.8 20.8

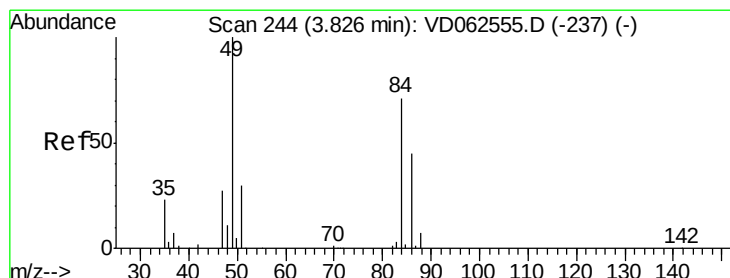
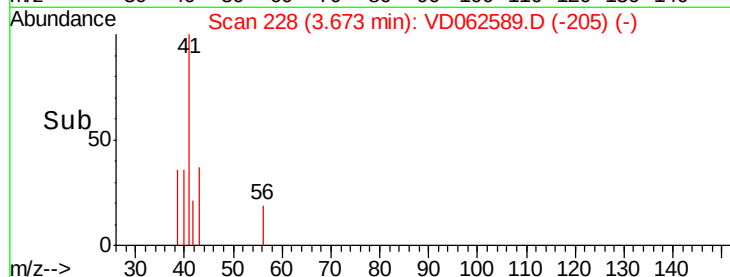
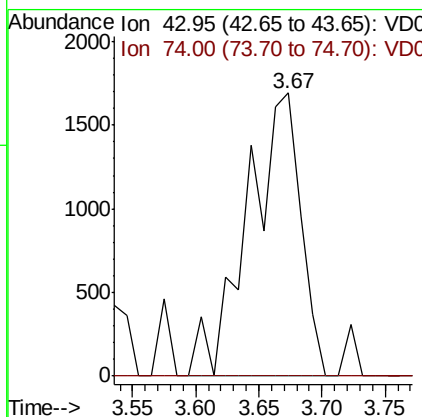
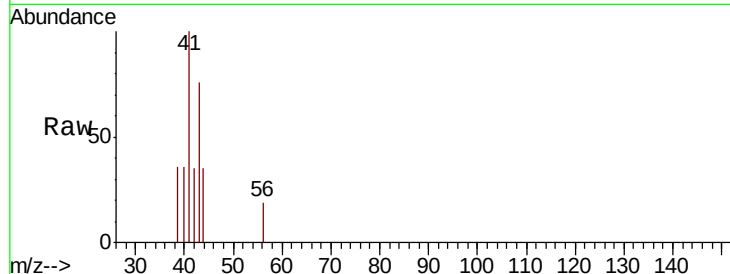




#18
Methyl Acetate
Concen: 3.363 ug/l
RT: 3.67 min Scan# 228
Delta R.T. 0.02 min
Lab File: VD062589.D
Acq: 3 Jun 2019 16:51

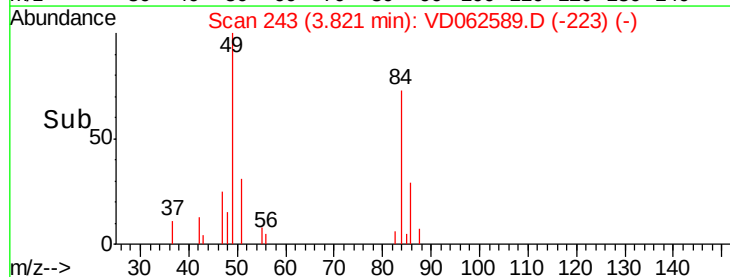
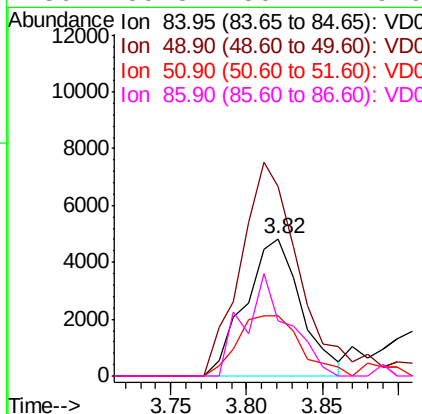
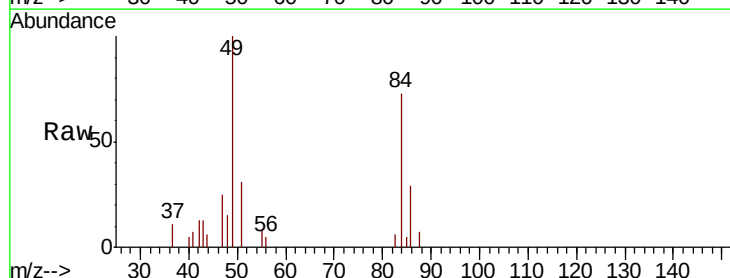
Instrument :
MSVOA_D
ClientSampleId :

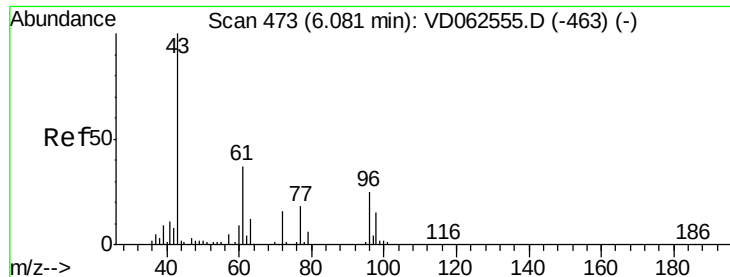
Tot Ion: 43 Resp: 4924
Ion Ratio Lower Upper
43 100
74 0.0 12.5 18.7#



#20
Methylene Chloride
Concen: 3.743 ug/l
RT: 3.82 min Scan# 243
Delta R.T. -0.01 min
Lab File: VD062589.D
Acq: 3 Jun 2019 16:51

Tgt Ion: 84 Resp: 12430
Ion Ratio Lower Upper
84 100
49 137.8 112.3 168.5
51 43.4 33.6 50.4
86 39.8 50.4 75.6#





#25

2-Butanone

Concen: 21.652 ug/l

RT: 6.08 min Scan# 472

Delta R.T. -0.01 min

Lab File: VD062589.D

Acq: 3 Jun 2019 16:51

Instrument :

MSVOA_D

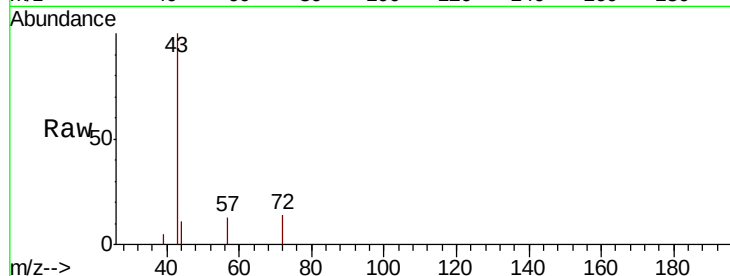
ClientSampleId :

Tot Ion: 43 Resp: 18293

Ion Ratio Lower Upper

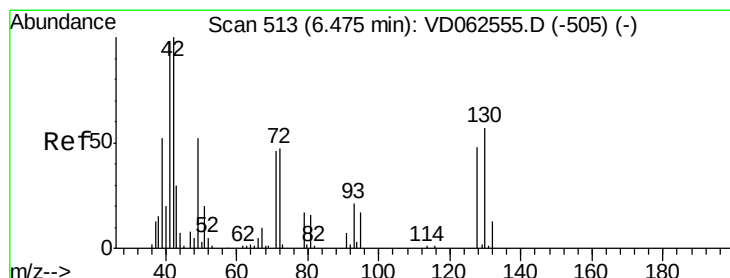
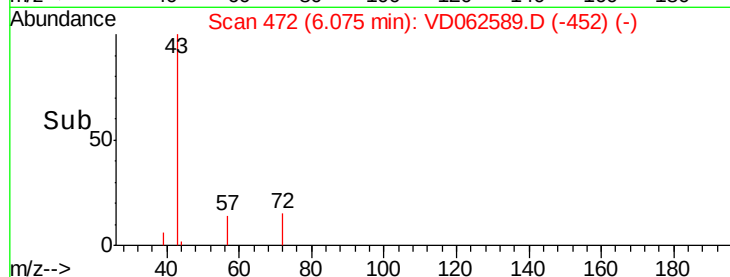
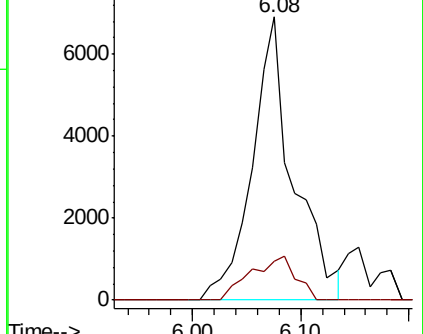
43 100

72 13.7 12.7 19.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#29

Tetrahydrofuran

Concen: 1.115 ug/l

RT: 6.53 min Scan# 518

Delta R.T. 0.05 min

Lab File: VD062589.D

Acq: 3 Jun 2019 16:51

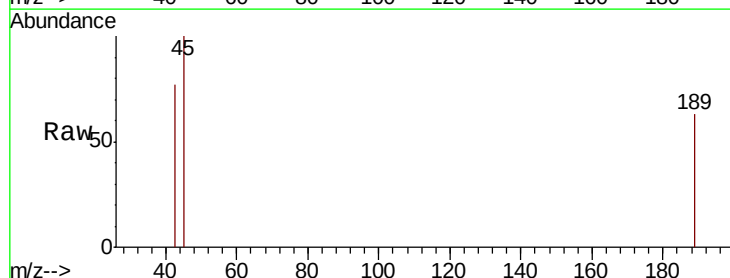
Tgt Ion: 42 Resp: 422

Ion Ratio Lower Upper

42 100

72 0.0 34.5 51.7#

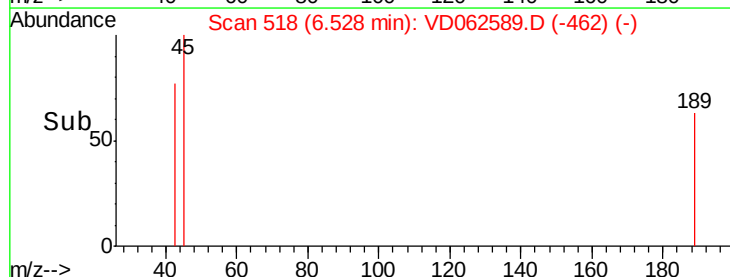
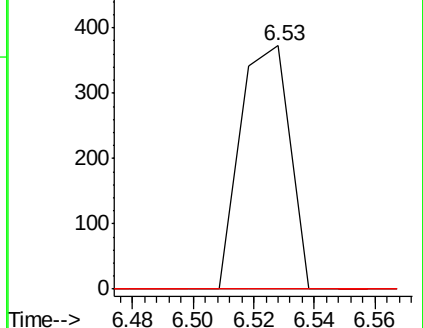
71 0.0 33.0 49.6#

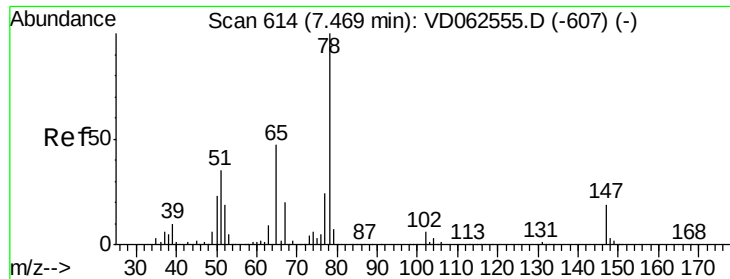


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC

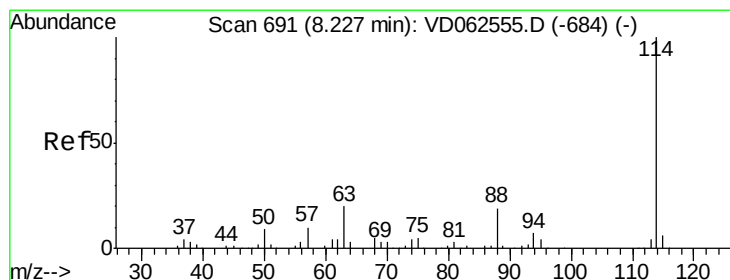
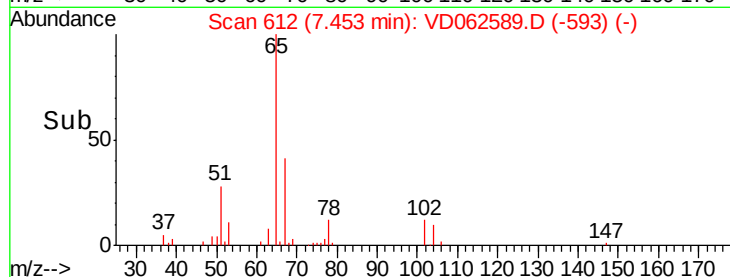
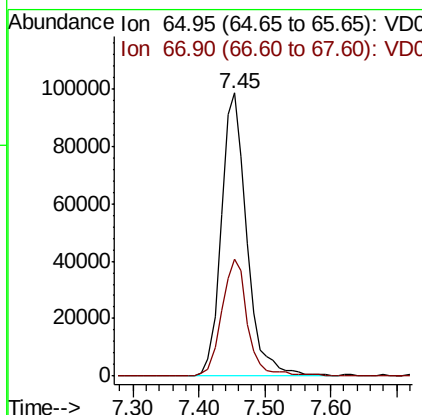
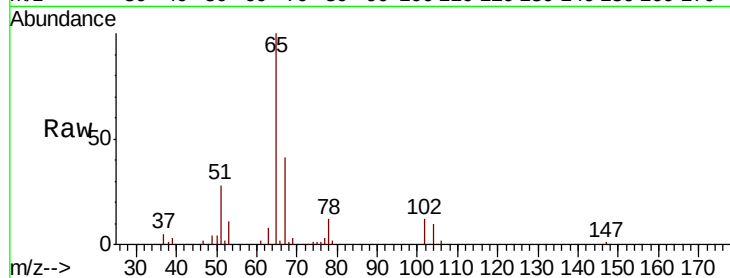




#33
 1,2-Dichloroethane-d4
 Concen: 58.137 ug/l
 RT: 7.45 min Scan# 612
 Delta R.T. -0.02 min
 Lab File: VD062589.D
 Acq: 3 Jun 2019 16:51

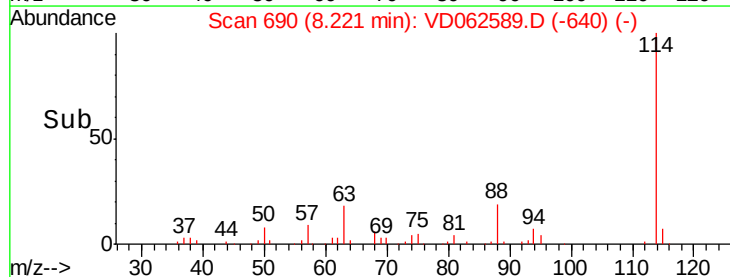
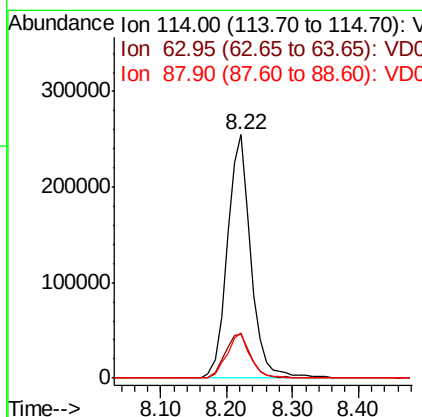
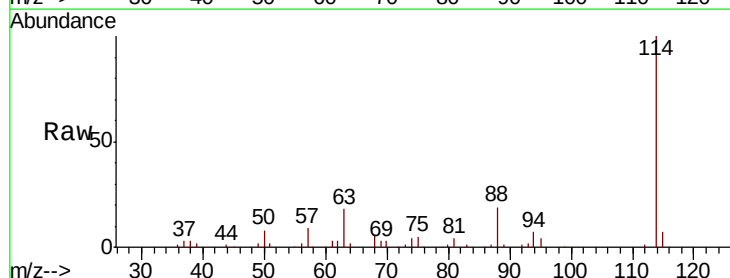
Instrument :
 MSVOA_D
 ClientSampleId :

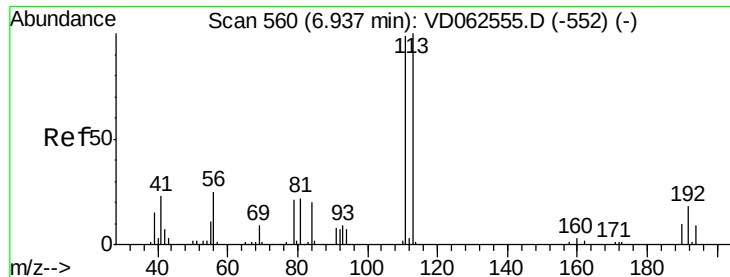
Tot Ion: 65 Resp: 265437
 Ion Ratio Lower Upper
 65 100
 67 41.1 0.0 83.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 690
 Delta R.T. -0.01 min
 Lab File: VD062589.D
 Acq: 3 Jun 2019 16:51

Tgt Ion: 114 Resp: 635367
 Ion Ratio Lower Upper
 114 100
 63 18.0 0.0 40.6
 88 18.7 0.0 37.6

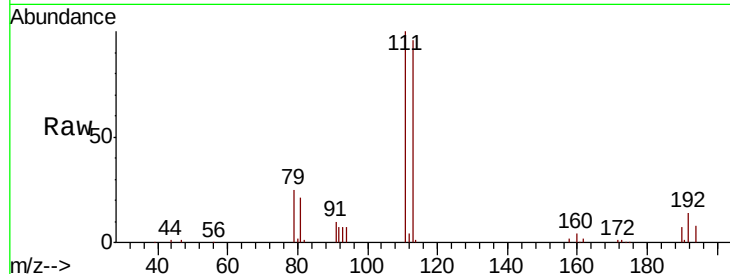




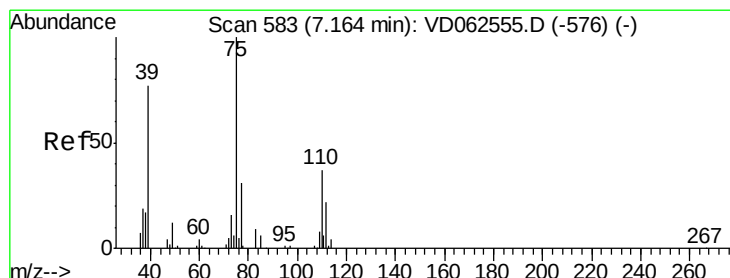
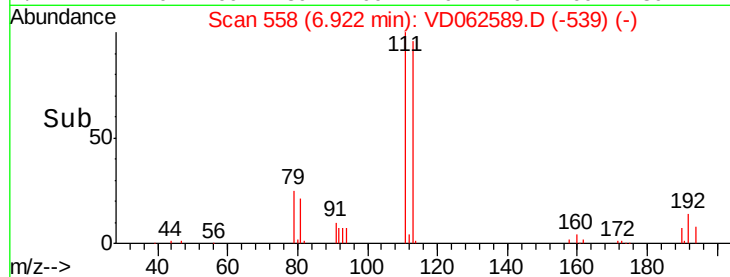
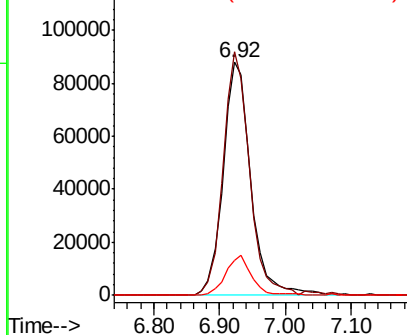
#35
 Dibromofluoromethane
 Concen: 44.633 ug/l
 RT: 6.92 min Scan# 558
 Delta R.T. -0.02 min
 Lab File: VD062589.D
 Acq: 3 Jun 2019 16:51

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:113 Resp: 258421
 Ion Ratio Lower Upper
 113 100
 111 104.5 78.8 118.2
 192 15.0 14.6 22.0

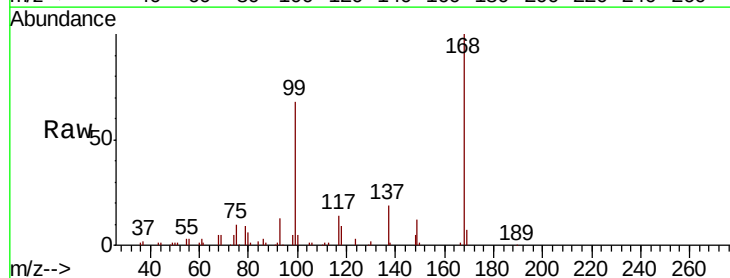


Abundance Ion 112.90 (112.60 to 113.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 191.80 (191.50 to 192.50): V

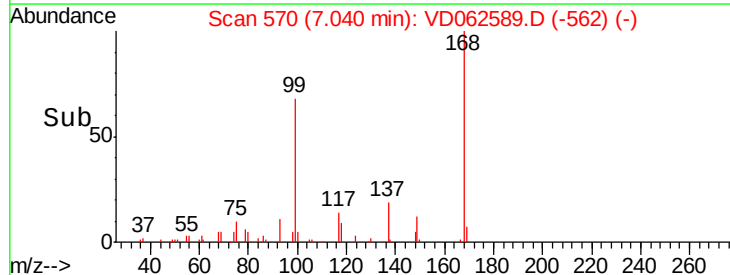
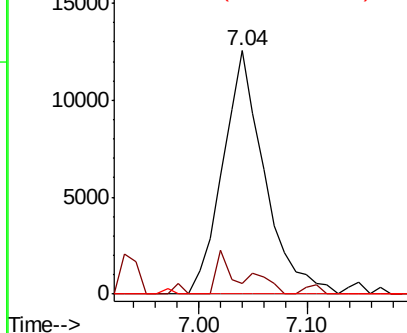


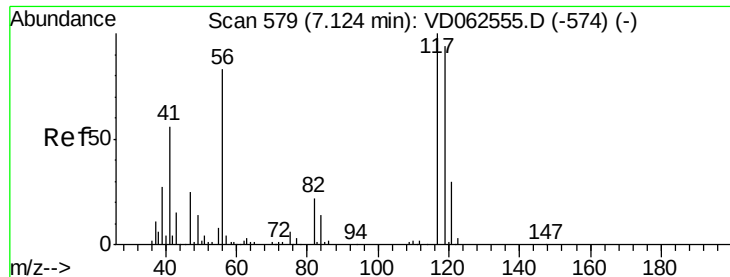
#36
 1,1-Dichloropropene
 Concen: 5.299 ug/l
 RT: 7.04 min Scan# 570
 Delta R.T. -0.12 min
 Lab File: VD062589.D
 Acq: 3 Jun 2019 16:51

Tgt Ion: 75 Resp: 33517
 Ion Ratio Lower Upper
 75 100
 110 4.4 18.3 54.8#
 77 0.0 24.4 36.6#



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

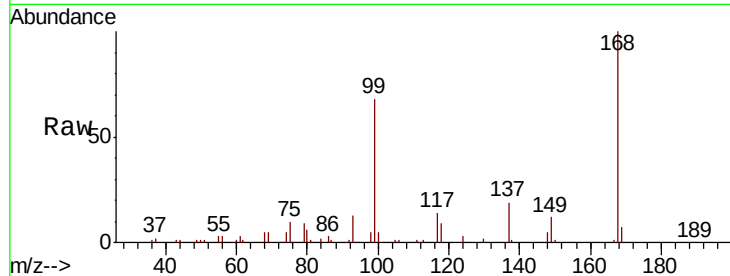




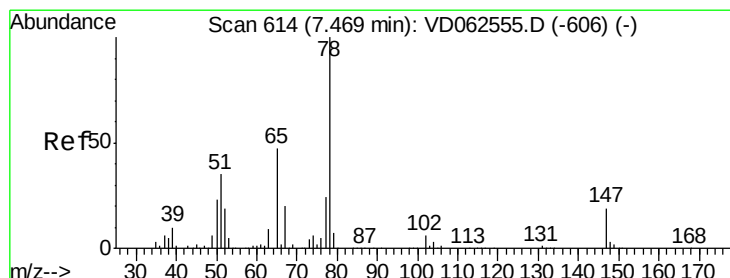
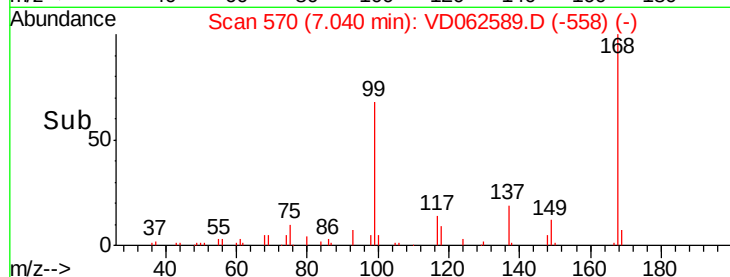
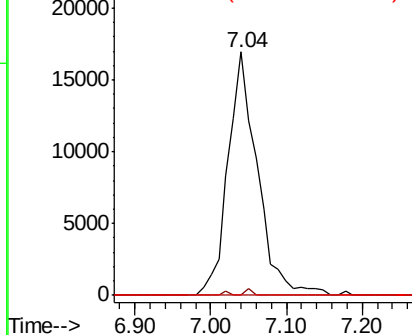
#38
Carbon Tetrachloride
Concen: 4.842 ug/l
RT: 7.04 min Scan# 570
Delta R.T. -0.08 min
Lab File: VD062589.D
Acq: 3 Jun 2019 16:51

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 45592
Ion Ratio Lower Upper
117 100
119 0.0 71.4 107.2#
121 0.0 22.5 33.7#

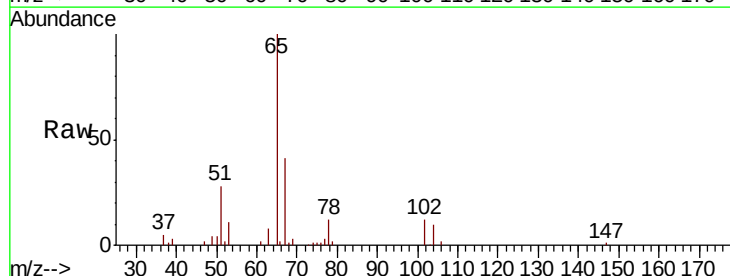


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

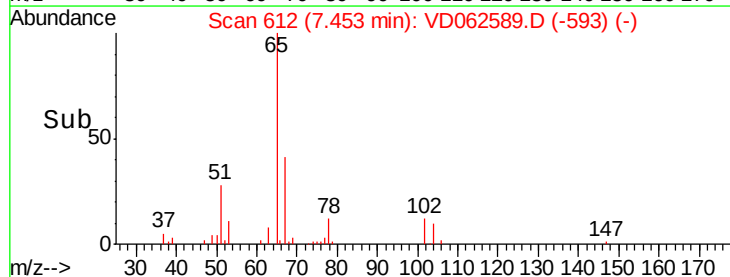
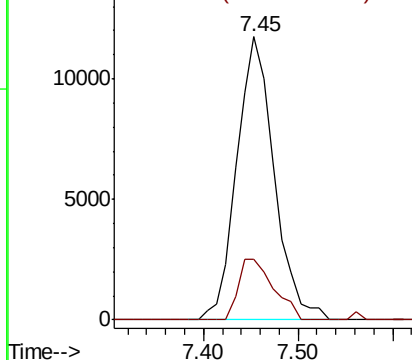


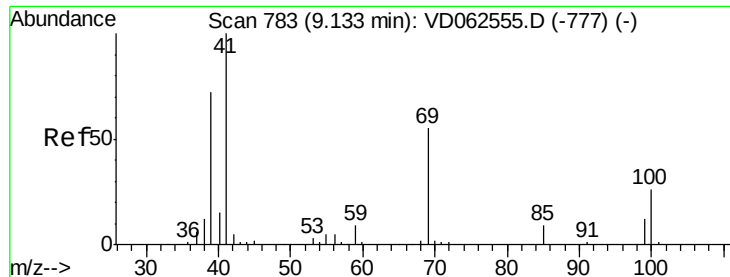
#40
Benzene
Concen: 2.587 ug/l
RT: 7.45 min Scan# 612
Delta R.T. -0.02 min
Lab File: VD062589.D
Acq: 3 Jun 2019 16:51

Tgt Ion: 78 Resp: 32114
Ion Ratio Lower Upper
78 100
77 21.3 19.1 28.7



Abundance Ion 77.95 (77.65 to 78.65): VDC
Ion 76.95 (76.65 to 77.65): VDC

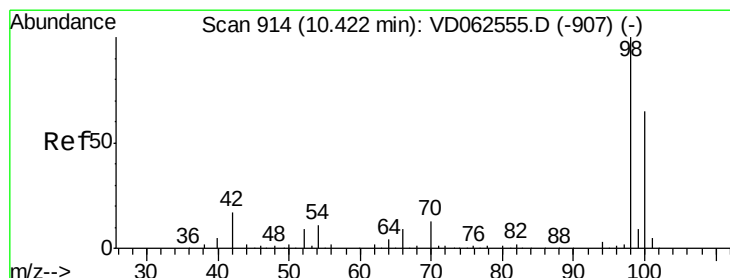
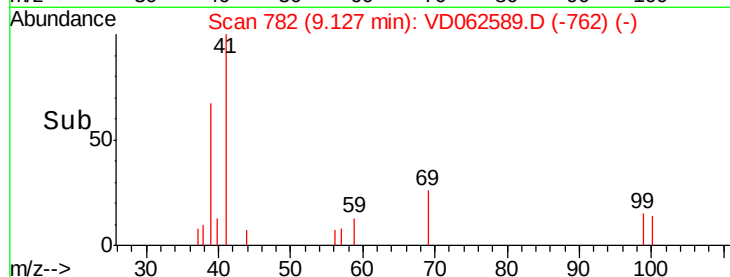
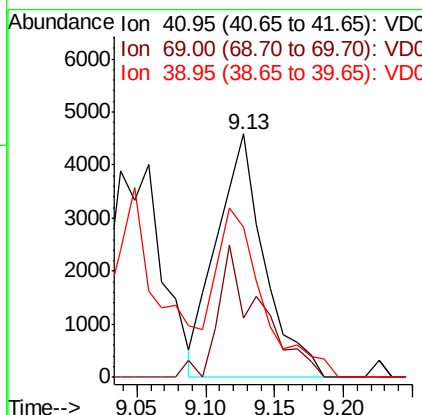
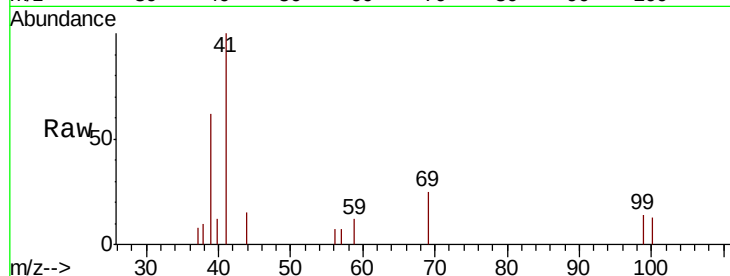




#48
Methyl methacrylate
Concen: 4.986 ug/l
RT: 9.13 min Scan# 782
Delta R.T. -0.01 min
Lab File: VD062589.D
Acq: 3 Jun 2019 16:51

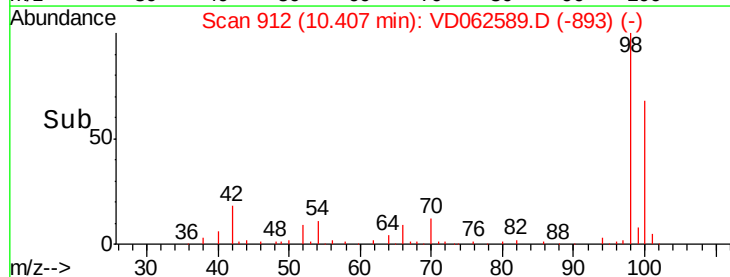
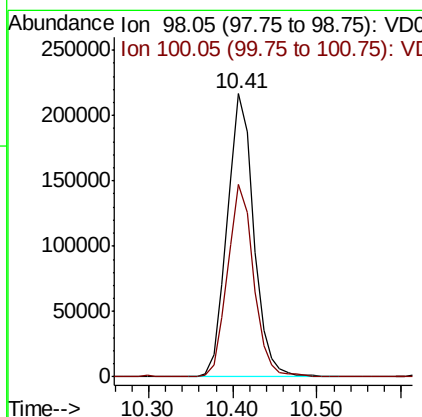
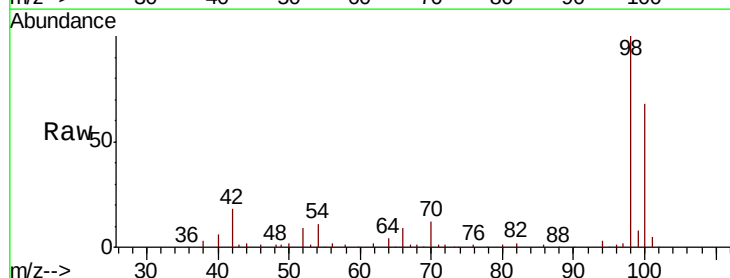
Instrument :
MSVOA_D
ClientSampled :

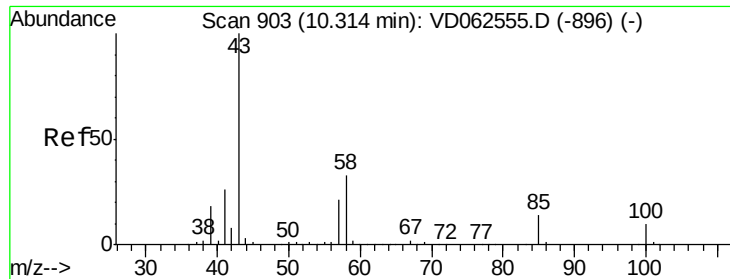
Tot Ion: 41 Resp: 11020
Ion Ratio Lower Upper
41 100
69 24.5 43.6 65.4#
39 61.8 58.1 87.1



#50
Toluene-d8
Concen: 37.612 ug/l
RT: 10.41 min Scan# 912
Delta R.T. -0.02 min
Lab File: VD062589.D
Acq: 3 Jun 2019 16:51

Tgt Ion: 98 Resp: 477141
Ion Ratio Lower Upper
98 100
100 68.2 52.3 78.5





#51

4-Methyl-2-Pentanone

Concen: 6.851 ug/l

RT: 10.30 min Scan# 901

Delta R.T. -0.02 min

Lab File: VD062589.D

Acq: 3 Jun 2019 16:51

Instrument :

MSVOA_D

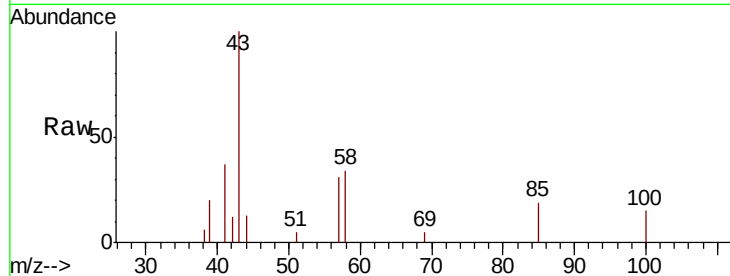
ClientSampleId :

Tot Ion: 43 Resp: 15862

Ion Ratio Lower Upper

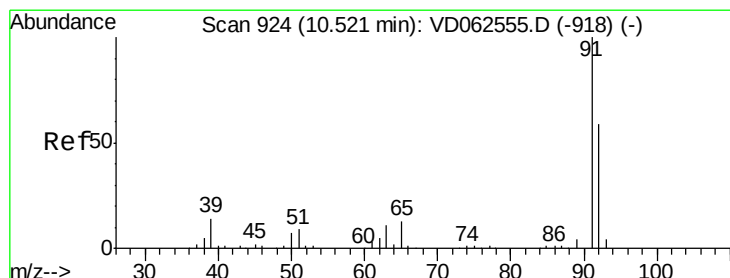
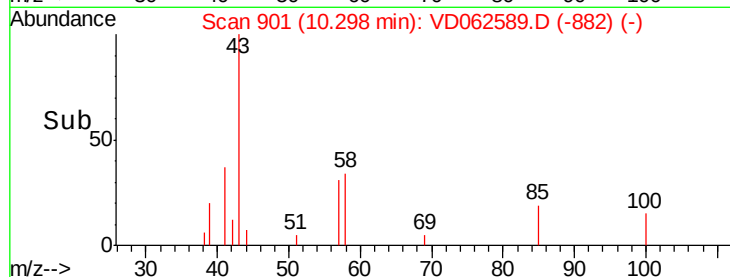
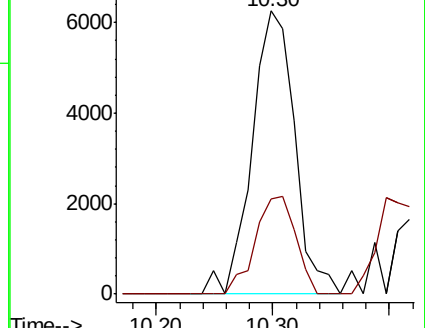
43 100

58 33.7 26.1 39.1



Abundance Ion 42.95 (42.65 to 43.65): VD062555.D (-896) (-)

Ion 57.95 (57.65 to 58.65): VD062555.D (-896) (-)



#52

Toluene

Concen: 4.914 ug/l

RT: 10.51 min Scan# 922

Delta R.T. -0.02 min

Lab File: VD062589.D

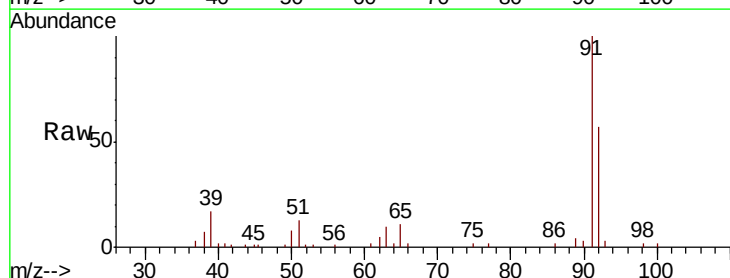
Acq: 3 Jun 2019 16:51

Tgt Ion: 92 Resp: 41608

Ion Ratio Lower Upper

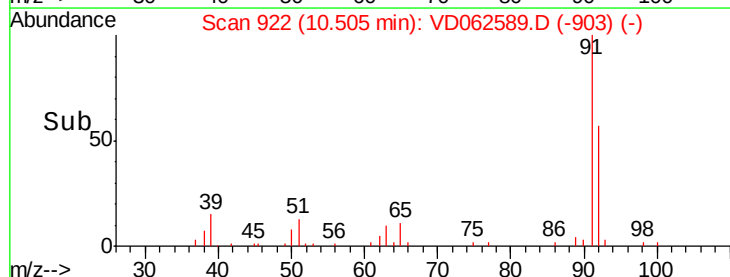
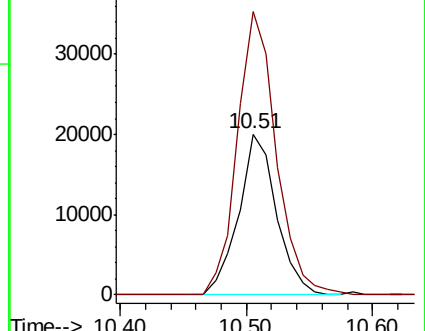
92 100

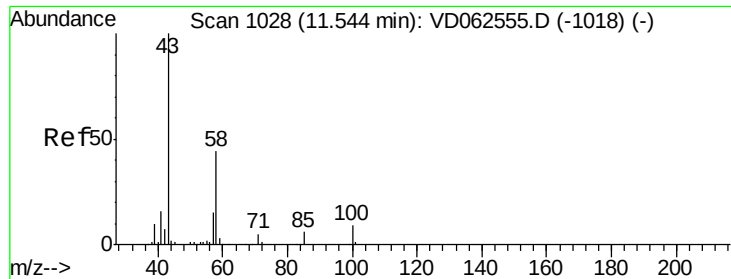
91 176.1 135.5 203.3



Abundance Ion 92.00 (91.70 to 92.70): VD062555.D (-918) (-)

Ion 91.00 (90.70 to 91.70): VD062555.D (-918) (-)

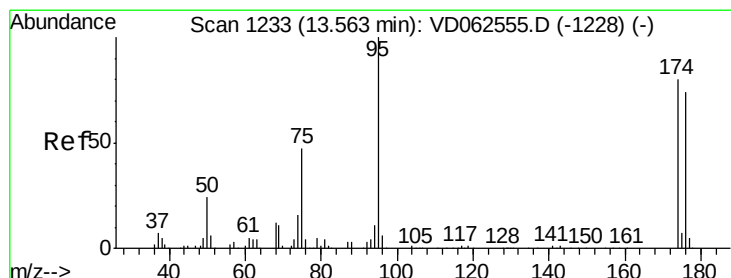
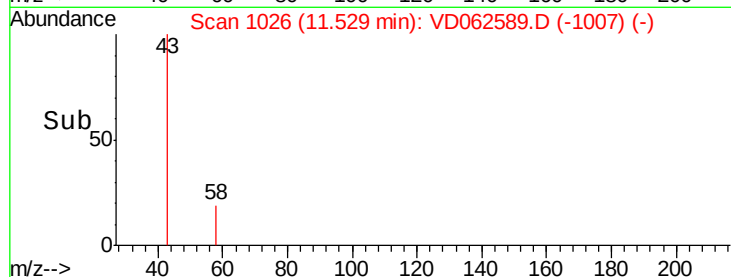
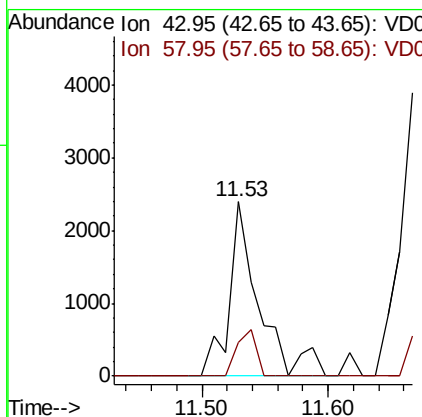
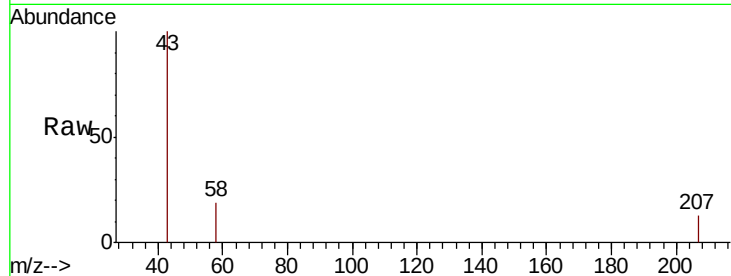




#59
2-Hexanone
Concen: 2.408 ug/l
RT: 11.53 min Scan# 1026
Delta R.T. -0.02 min
Lab File: VD062589.D
Acq: 3 Jun 2019 16:51

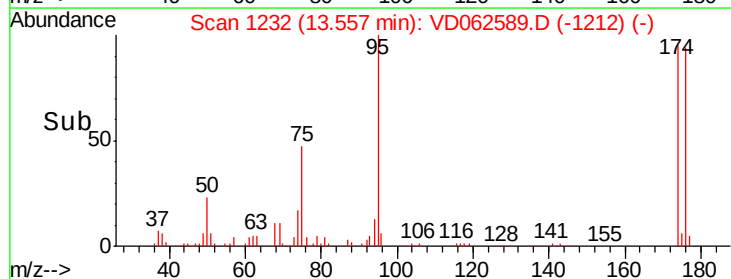
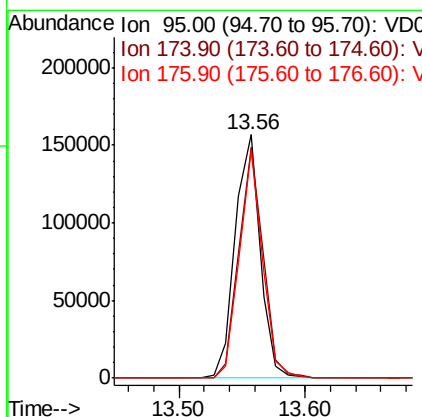
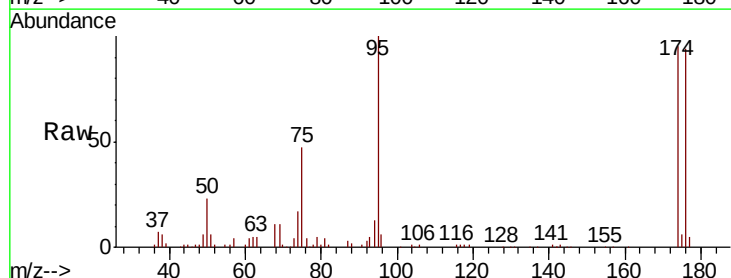
Instrument :
MSVOA_D
ClientSampleId :

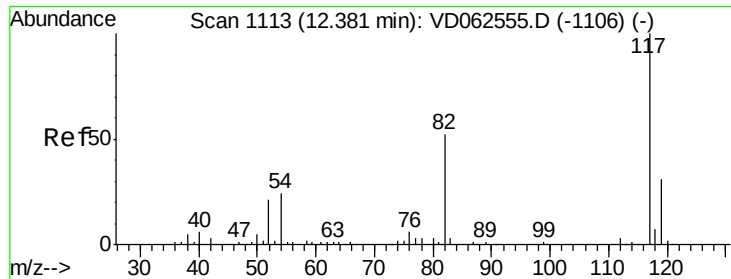
Tot Ion: 43 Resp: 3910
Ion Ratio Lower Upper
43 100
58 19.4 22.0 66.0#



#62
4-Bromofluorobenzene
Concen: 37.518 ug/l
RT: 13.56 min Scan# 1232
Delta R.T. -0.01 min
Lab File: VD062589.D
Acq: 3 Jun 2019 16:51

Tgt Ion: 95 Resp: 214636
Ion Ratio Lower Upper
95 100
174 95.1 0.0 160.2
176 93.8 0.0 148.0

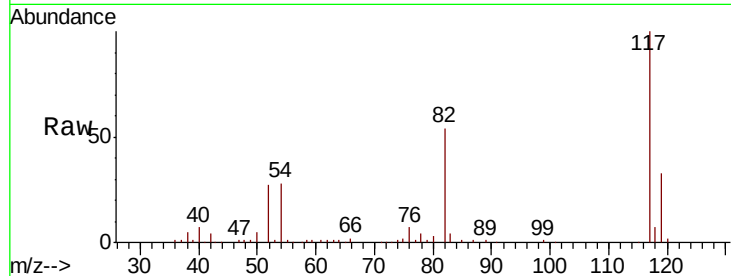




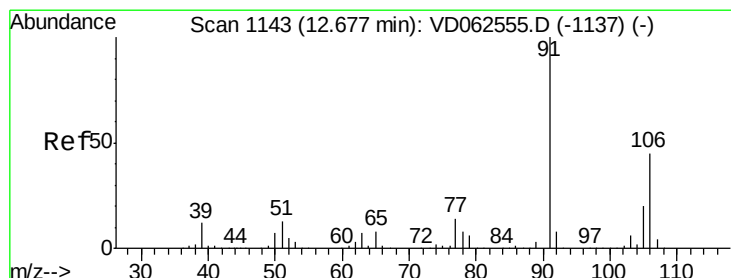
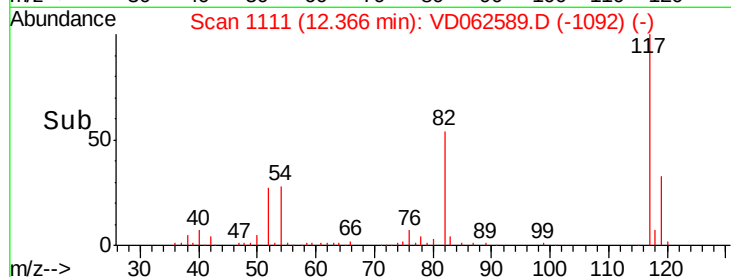
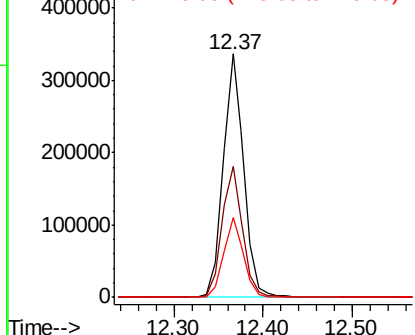
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1111
Delta R.T. -0.02 min
Lab File: VD062589.D
Acq: 3 Jun 2019 16:51

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 548251
Ion Ratio Lower Upper
117 100
82 53.7 41.4 62.2
119 33.0 24.9 37.3

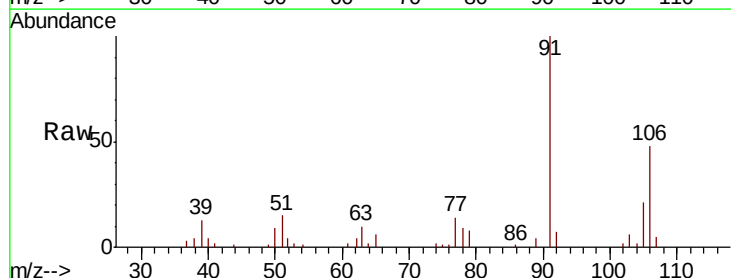


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

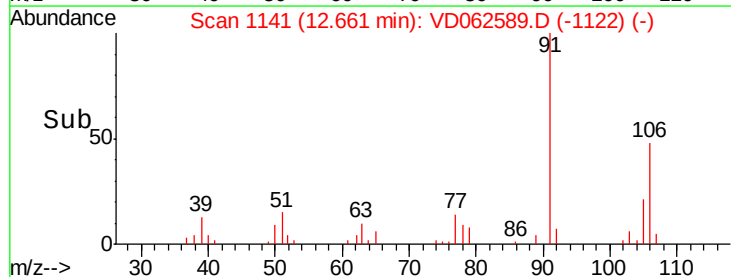
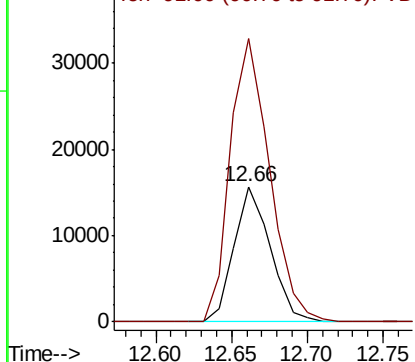


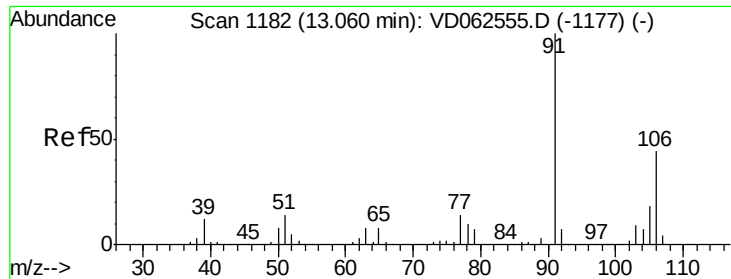
#68
m/p-Xylenes
Concen: 3.836 ug/l
RT: 12.66 min Scan# 1141
Delta R.T. -0.02 min
Lab File: VD062589.D
Acq: 3 Jun 2019 16:51

Tgt Ion:106 Resp: 25968
Ion Ratio Lower Upper
106 100
91 209.7 178.9 268.3



Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

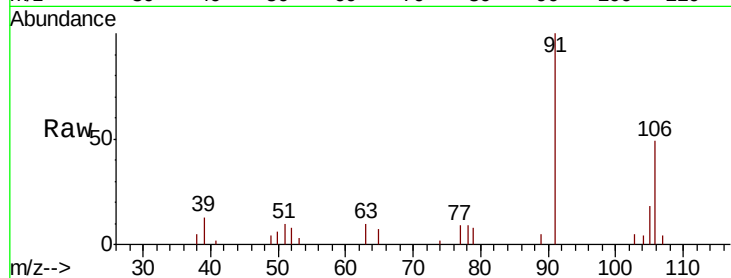




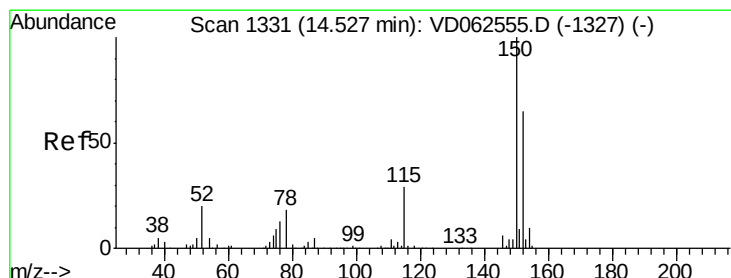
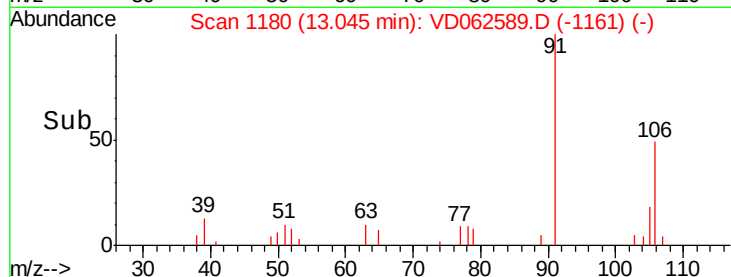
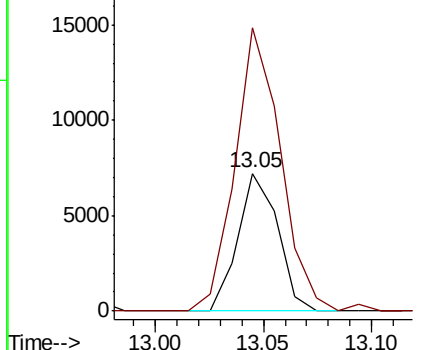
#69
o-Xylene
Concen: 1.440 ug/l
RT: 13.05 min Scan# 1180
Delta R.T. -0.02 min
Lab File: VD062589.D
Acq: 3 Jun 2019 16:51

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:106 Resp: 9300
Ion Ratio Lower Upper
106 100
91 205.8 113.9 341.8

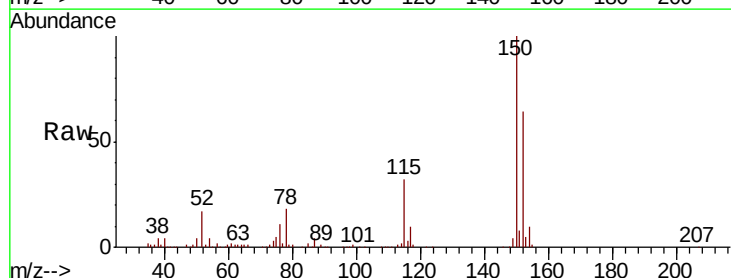


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

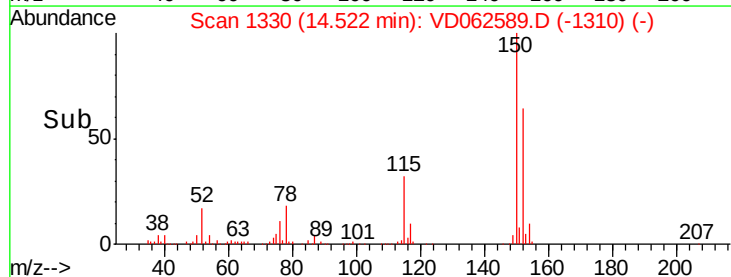
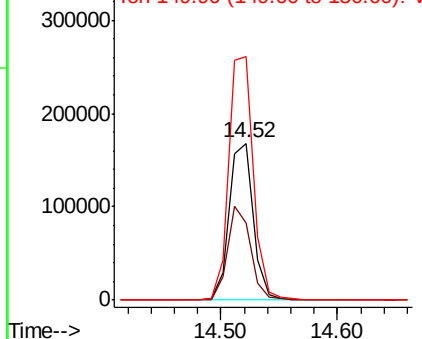


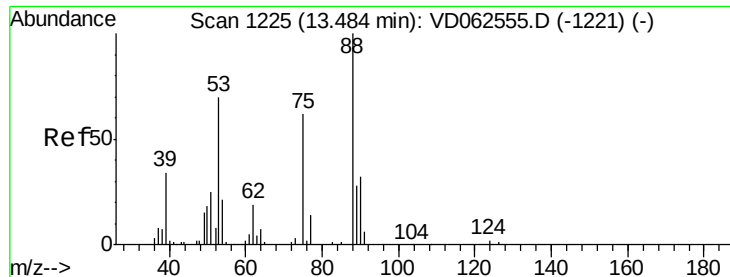
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. -0.01 min
Lab File: VD062589.D
Acq: 3 Jun 2019 16:51

Tgt Ion:152 Resp: 240884
Ion Ratio Lower Upper
152 100
115 49.4 28.4 85.3
150 155.2 0.0 310.4



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





#81

trans-1,4-Dichloro-2-butene

Concen: 128.653 ug/l

RT: 13.56 min Scan# 1232

Delta R.T. 0.07 min

Lab File: VD062589.D

Acq: 3 Jun 2019 16:51

Instrument :

MSVOA_D

ClientSampled :

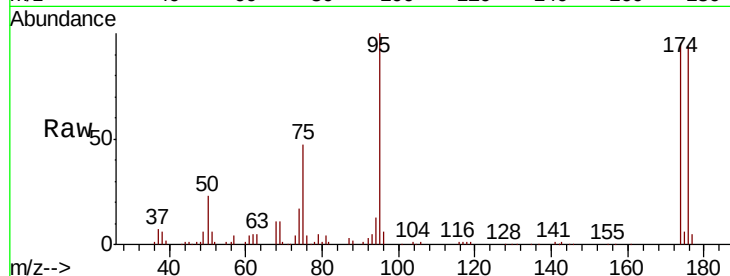
Tot Ion: 75 Resp: 106535

Ion Ratio Lower Upper

75 100

53 0.0 91.0 136.4#

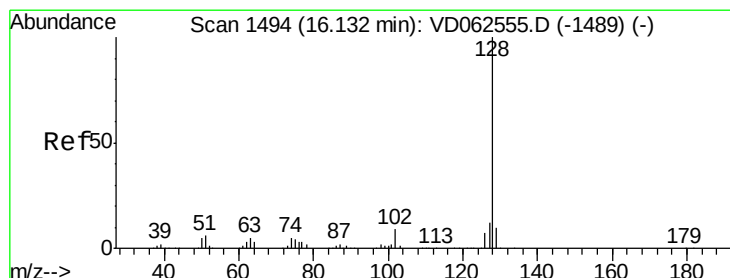
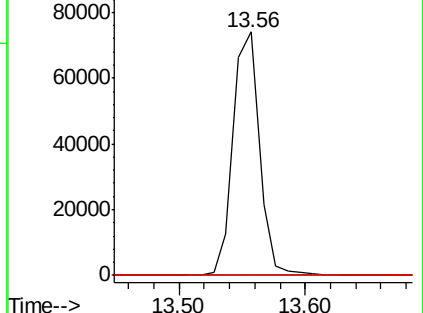
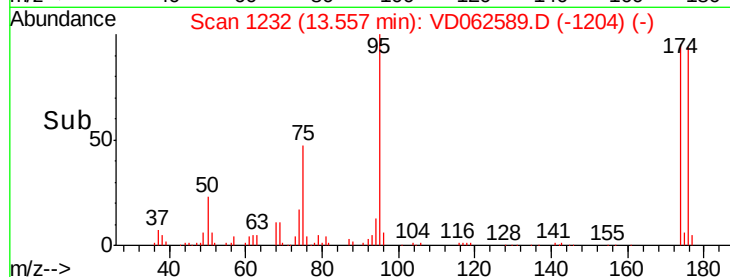
89 0.0 36.9 55.3#



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



#95

Naphthalene

Concen: 1.809 ug/l

RT: 16.13 min Scan# 1493

Delta R.T. -0.01 min

Lab File: VD062589.D

Acq: 3 Jun 2019 16:51

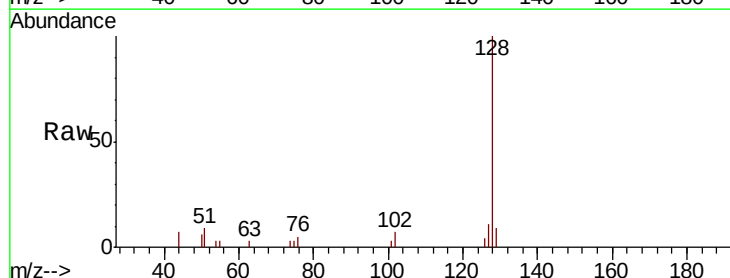
Tgt Ion:128 Resp: 12505

Ion Ratio Lower Upper

128 100

127 11.4 9.7 14.5

129 8.9 8.2 12.2



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

