

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD121818\
 Data File : VD060622.D
 Acq On : 18 Dec 2018 15:42
 Operator : VA/AP
 Sample : J6464-04
 Misc : 5.06g/5ml/MSVOA D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VB16202

Quant Time: Dec 19 02:48:36 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D120518S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 06 01:49:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.41	168	151522	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	7.44	114	239854	50.00	ug/l	-0.01
63) Chlorobenzene-d5	11.28	117	217368	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.36	152	103988	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.78	65	85940	80.02	ug/l	-0.01
Spiked Amount			Recovery	=	160.04%	
35) Dibromofluoromethane	6.32	113	82893	47.05	ug/l	-0.01
Spiked Amount			Recovery	=	94.10%	
50) Toluene-d8	9.45	98	185583	36.40	ug/l	-0.01
Spiked Amount			Recovery	=	72.80%	
62) 4-Bromofluorobenzene	12.42	95	74280	40.72	ug/l	-0.01
Spiked Amount			Recovery	=	81.44%	

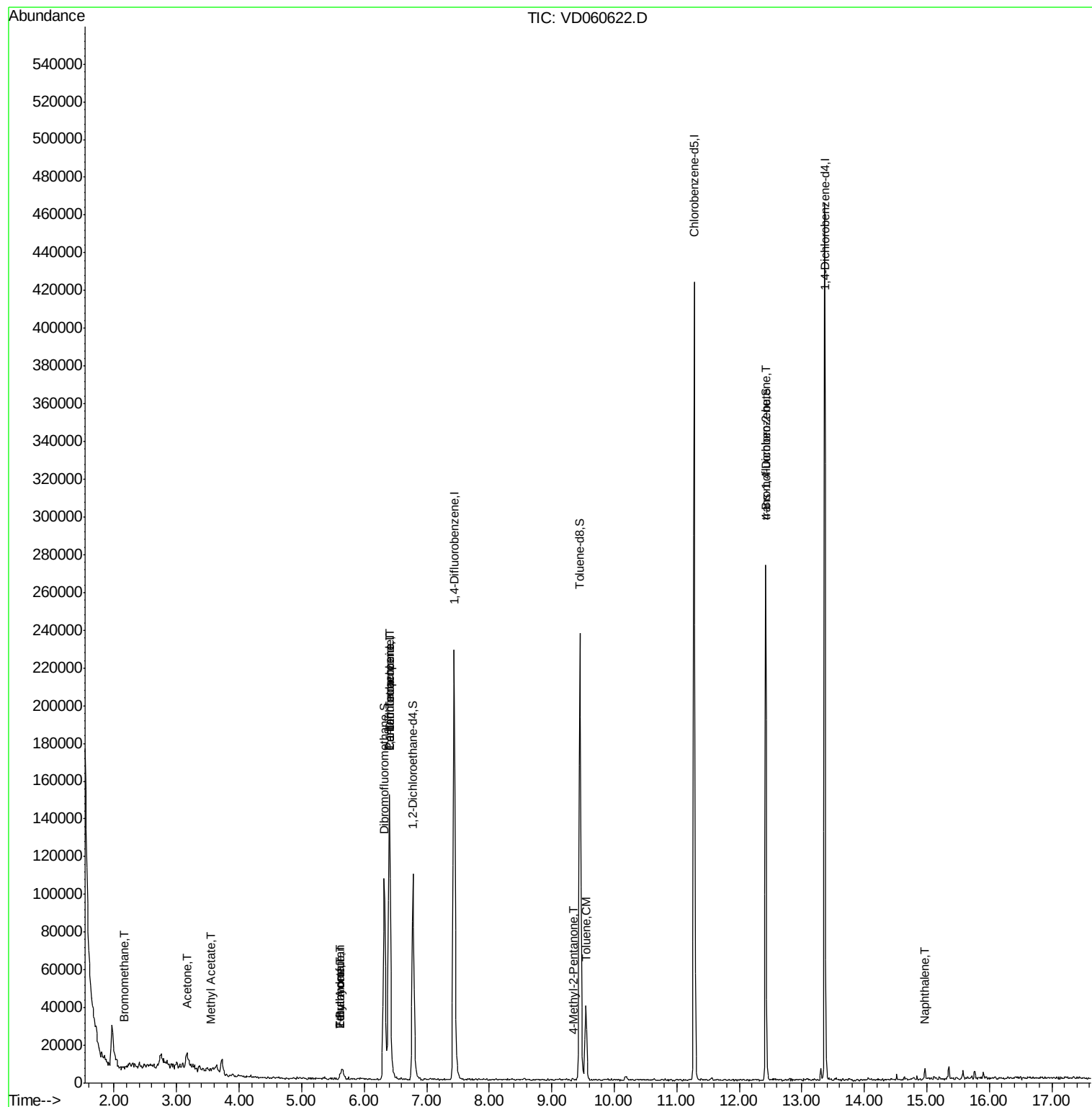
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.15	94	424	1.364	ug/l #	4
16) Acetone	3.16	43	15177	88.161	ug/l	99
18) Methyl Acetate	3.55	43	2254	5.509	ug/l #	64
20) Methylene Chloride	3.73	84	4491	Below Cal	#	86
25) 2-Butanone	5.61	43	3955	11.677	ug/l #	59
29) Tetrahydrofuran	5.61	42	216	1.126	ug/l #	40
31) Cyclohexane	6.40	56	1967	Below Cal	#	1
36) 1,1-Dichloropropene	6.40	75	9992	4.262	ug/l #	48
37) Ethyl Acetate	5.61	43	3955	3.890	ug/l #	68
38) Carbon Tetrachloride	6.40	117	11452	5.441	ug/l #	12
51) 4-Methyl-2-Pentanone	9.34	43	1034	1.324	ug/l #	42
52) Toluene	9.55	92	21787	5.818	ug/l	88
81) trans-1,4-Dichloro-2-buten	12.42	75	31034	94.438	ug/l #	14
95) Naphthalene	14.97	128	4846	1.821	ug/l #	96

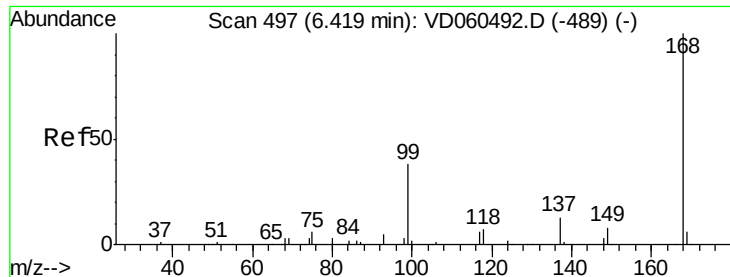
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Dec 06 01:49:20 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.41 min Scan# 496

Delta R.T. -0.01 min

Lab File: VD060622.D

Acq: 18 Dec 2018 15:42

Instrument :

MSVOA_D

ClientSampleId :

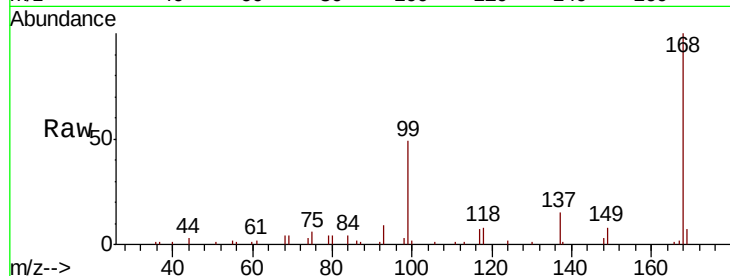
VB16202

Tot Ion:168 Resp: 151522

Ion Ratio Lower Upper

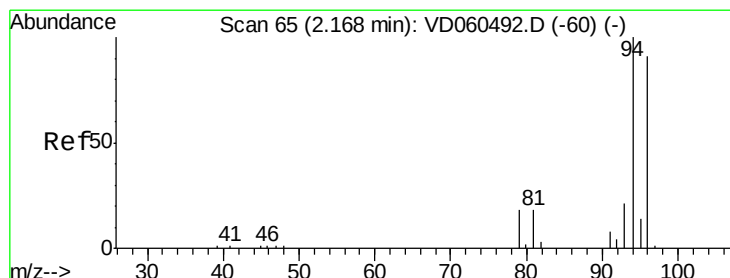
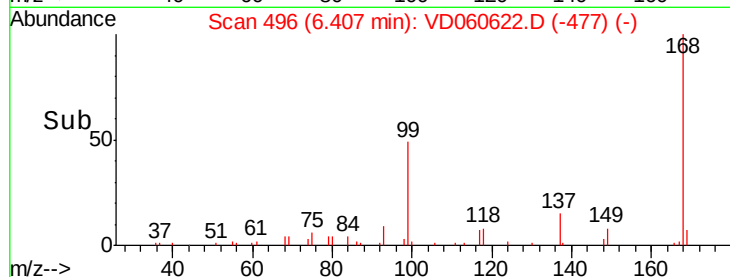
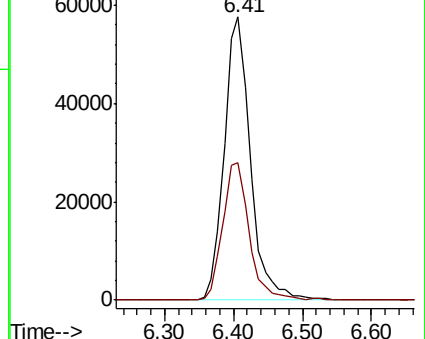
168 100

99 48.7 35.6 53.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: 1.364 ug/l

RT: 2.15 min Scan# 63

Delta R.T. -0.02 min

Lab File: VD060622.D

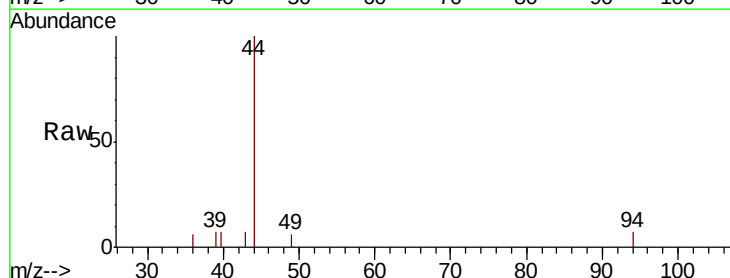
Acq: 18 Dec 2018 15:42

Tgt Ion: 94 Resp: 424

Ion Ratio Lower Upper

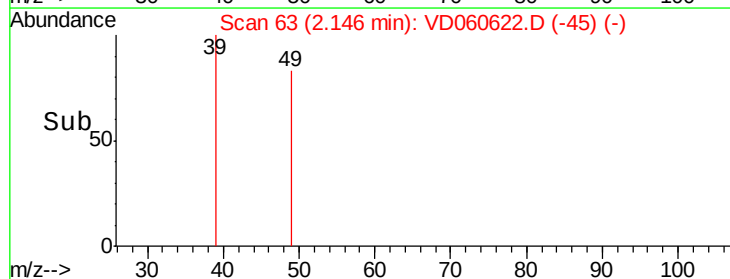
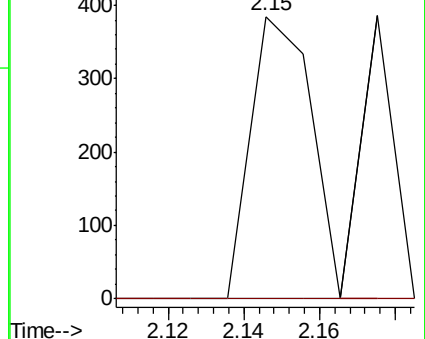
94 100

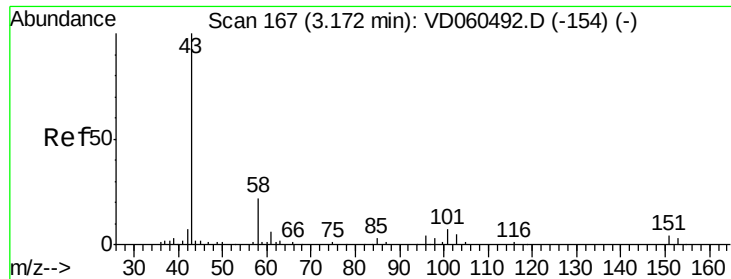
96 0.0 72.6 108.8#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC





#16

Acetone

Concen: 88.161 ug/l

RT: 3.16 min Scan# 166

Delta R.T. -0.01 min

Lab File: VD060622.D

Acq: 18 Dec 2018 15:42

Instrument :

MSVOA_D

ClientSampleId :

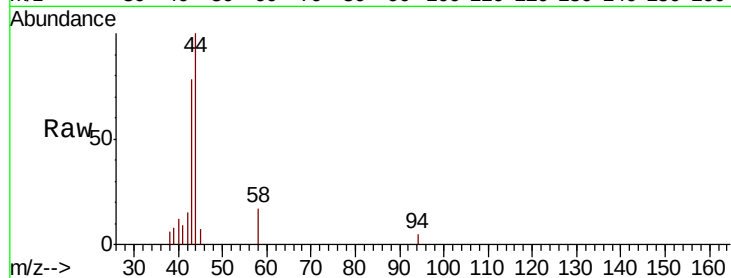
VB16202

Tot Ion: 43 Resp: 15177

Ion Ratio Lower Upper

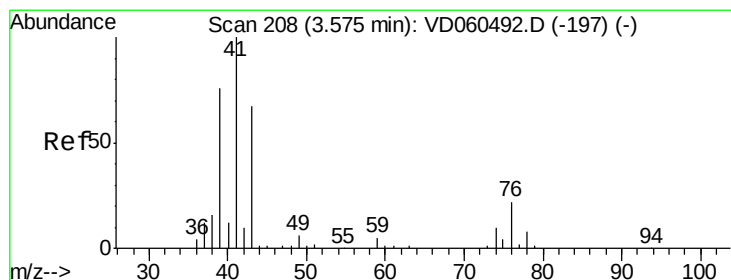
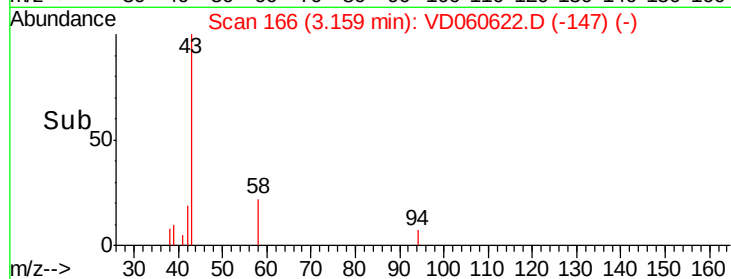
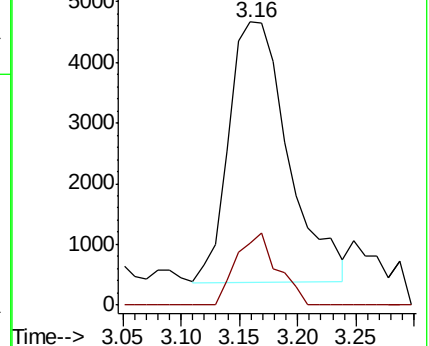
43 100

58 22.1 17.3 25.9



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 5.509 ug/l

RT: 3.55 min Scan# 206

Delta R.T. -0.02 min

Lab File: VD060622.D

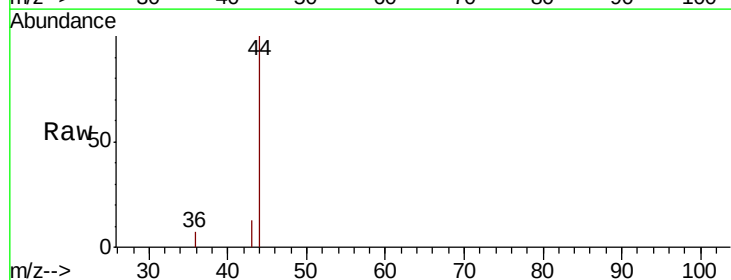
Acq: 18 Dec 2018 15:42

Tgt Ion: 43 Resp: 2254

Ion Ratio Lower Upper

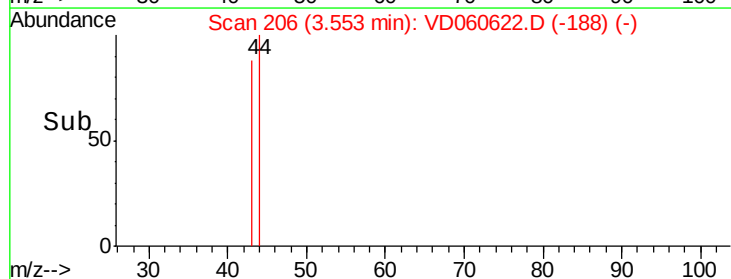
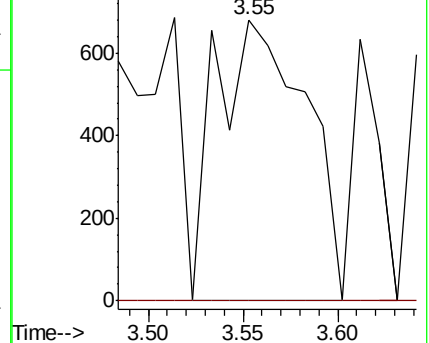
43 100

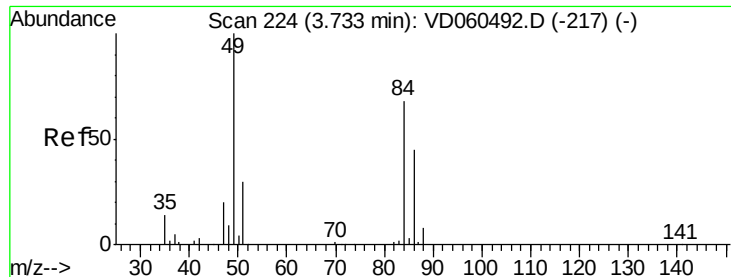
74 0.0 12.0 18.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

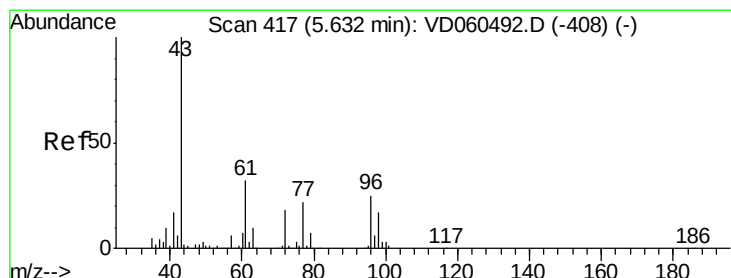
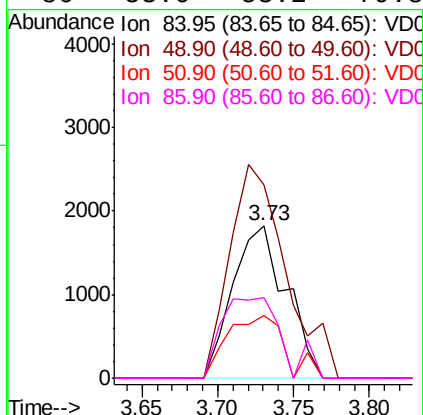
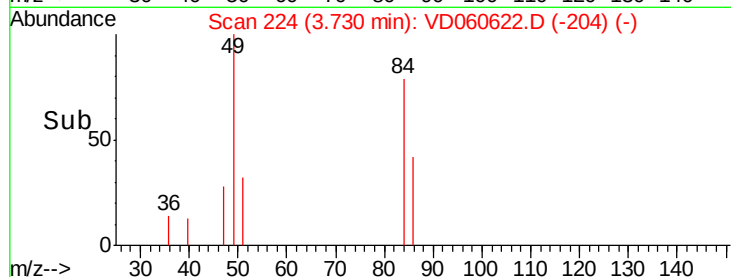
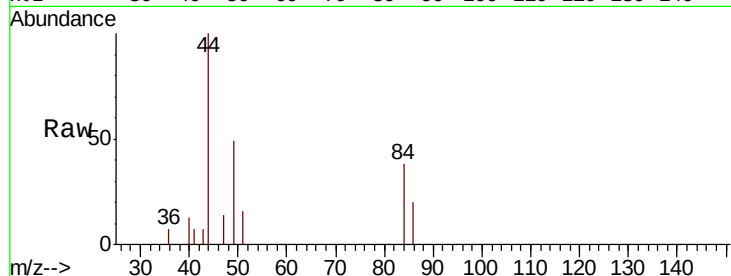




#20
Methvlene Chloride
Concen: Below Cal
RT: 3.73 min Scan# 224
Delta R.T. -0.00 min
Lab File: VD060622.D
Acq: 18 Dec 2018 15:42

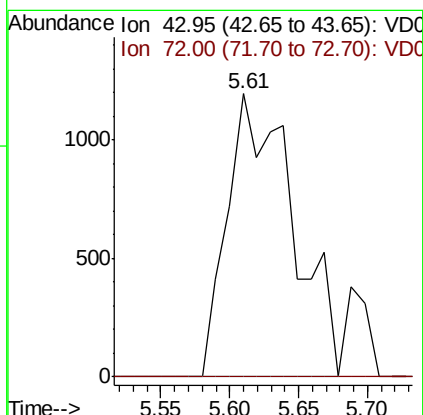
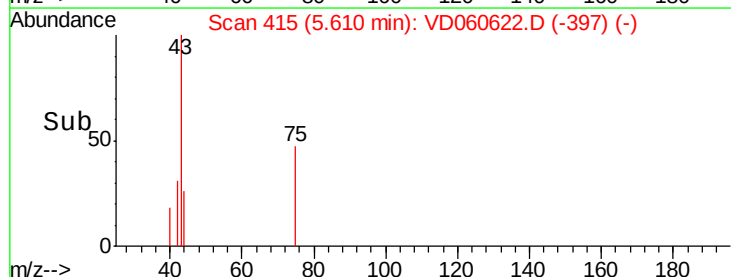
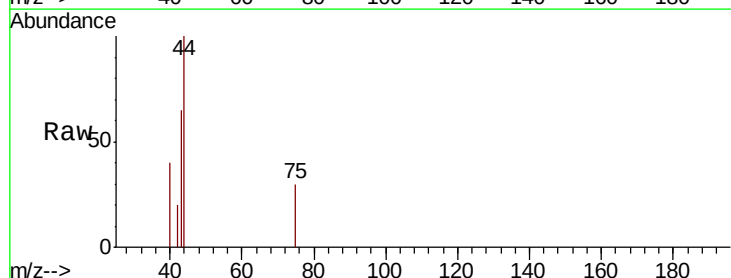
Instrument :
MSVOA_D
ClientSampleId :
VB16202

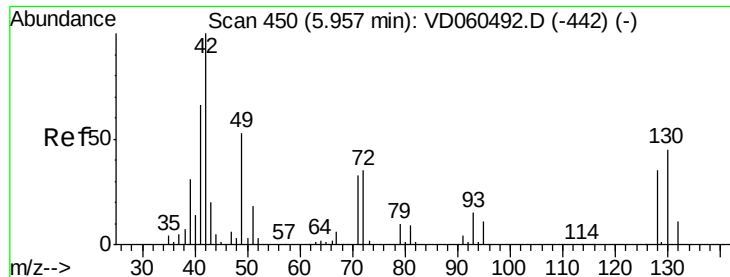
Tot Ion: 84 Resp: 4491
Ion Ratio Lower Upper
84 100
49 126.9 117.2 175.8
51 40.8 35.3 52.9
86 53.0 53.2 79.8#



#25
2-Butanone
Concen: 11.677 ug/l
RT: 5.61 min Scan# 415
Delta R.T. -0.02 min
Lab File: VD060622.D
Acq: 18 Dec 2018 15:42

Tgt Ion: 43 Resp: 3955
Ion Ratio Lower Upper
43 100
72 0.0 14.6 21.8#





#29

Tetrahydrofuran

Concen: 1.126 ug/l

RT: 5.61 min Scan# 415

Delta R.T. -0.35 min

Lab File: VD060622.D

Acq: 18 Dec 2018 15:42

Instrument :

MSVOA_D

ClientSampleId :

VB16202

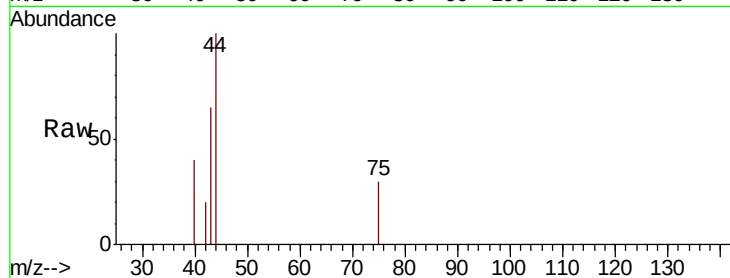
Tot Ion: 42 Resp: 216

Ion Ratio Lower Upper

42 100

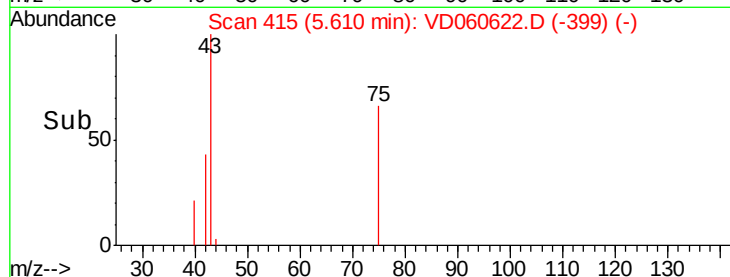
72 0.0 28.0 42.0#

71 0.0 27.2 40.8#

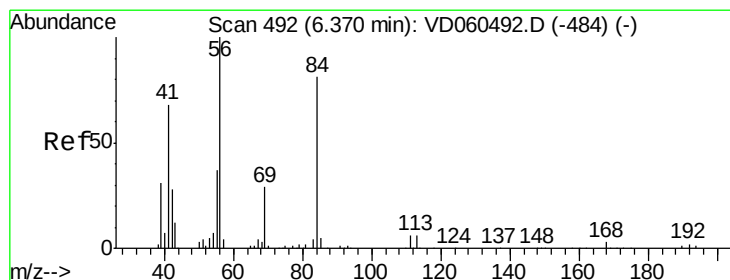


Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC

5.61



Time-->



#31

Cyclohexane

Concen: Below Cal

RT: 6.40 min Scan# 495

Delta R.T. 0.03 min

Lab File: VD060622.D

Acq: 18 Dec 2018 15:42

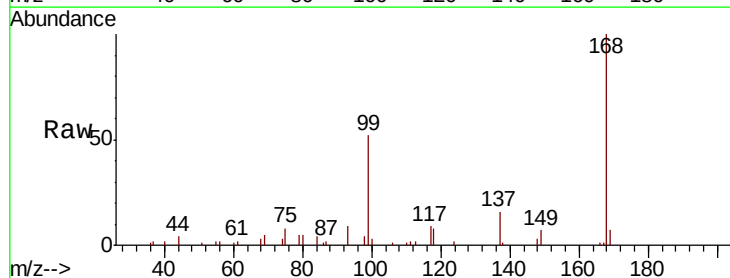
Tgt Ion: 56 Resp: 1967

Ion Ratio Lower Upper

56 100

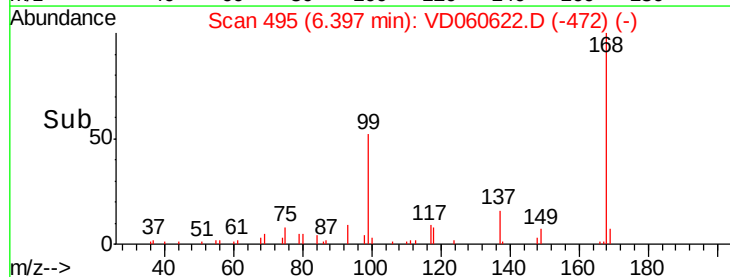
69 260.9 22.8 34.2#

84 222.2 65.1 97.7#

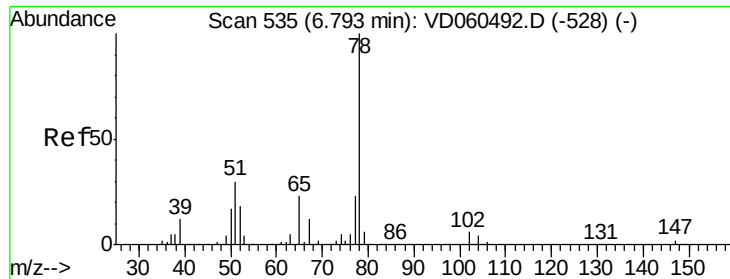


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

6.40



Time-->



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 6.78 min Scan# 534

Delta R.T. -0.01 min

Lab File: VD060622.D

Acq: 18 Dec 2018 15:42

Instrument :

MSVOA_D

ClientSampleId :

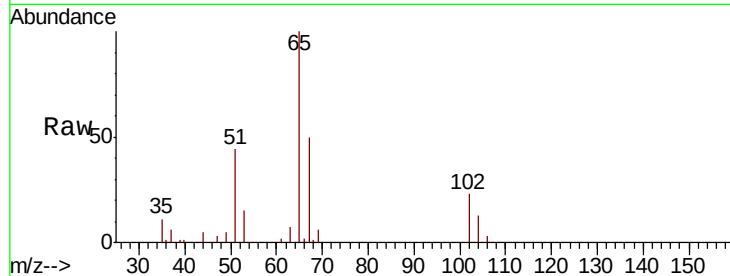
VB16202

Tot Ion: 65 Resp: 85940

Ion Ratio Lower Upper

65 100

67 49.7 0.0 106.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

6.78

40000

30000

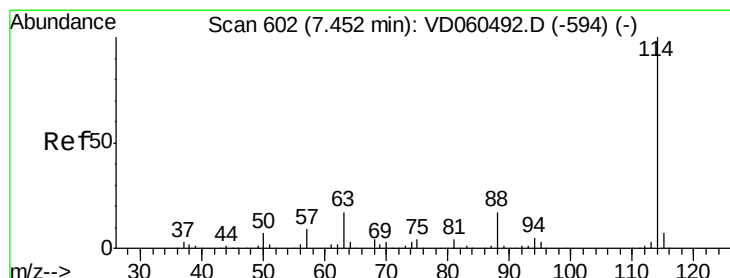
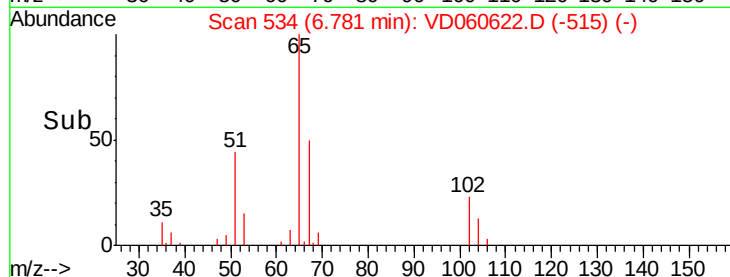
20000

10000

0

6.70 6.80 6.90

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 7.44 min Scan# 601

Delta R.T. -0.01 min

Lab File: VD060622.D

Acq: 18 Dec 2018 15:42

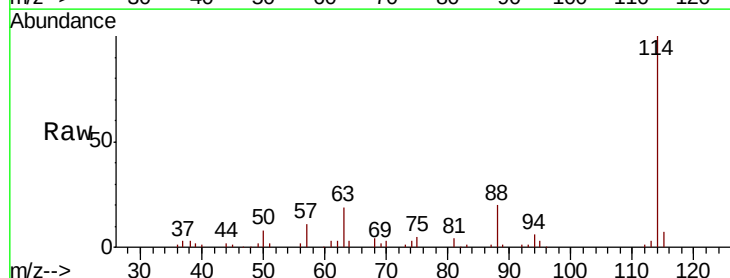
Tgt Ion: 114 Resp: 239854

Ion Ratio Lower Upper

114 100

63 19.1 0.0 34.2

88 19.8 0.0 35.0



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

7.44

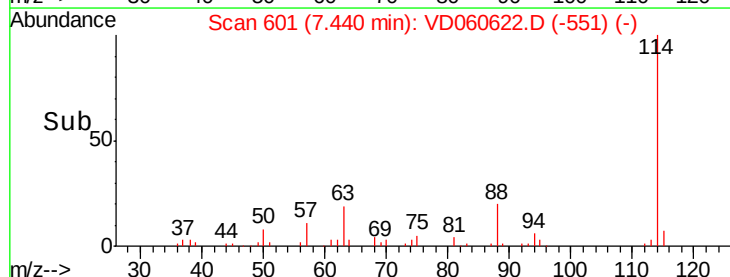
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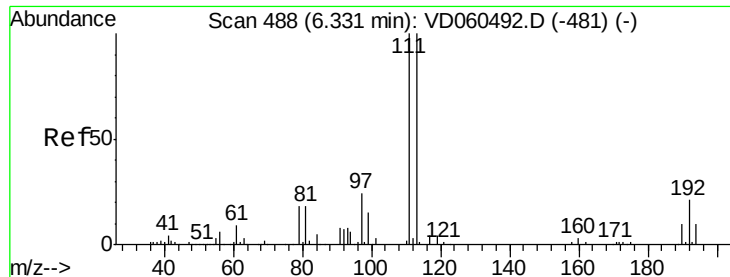
50000

0

7.30 7.40 7.50 7.60

Time-->





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.32 min Scan# 487

Delta R.T. -0.01 min

Lab File: VD060622.D

Acq: 18 Dec 2018 15:42

Instrument :

MSVOA_D

ClientSampleId :

VB16202

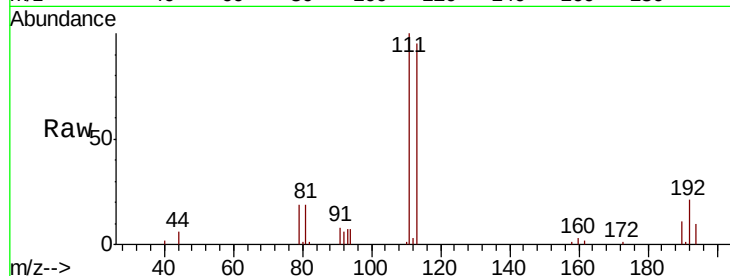
Tot Ion:113 Resp: 82893

Ion Ratio Lower Upper

113 100

111 104.9 80.2 120.4

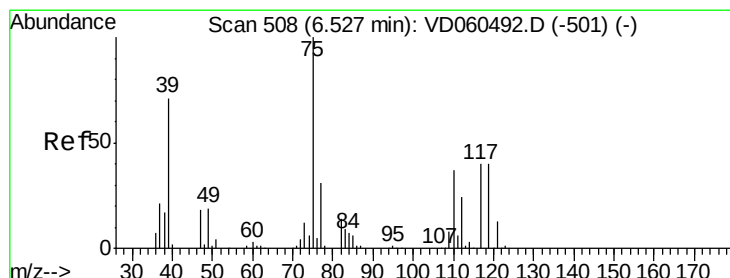
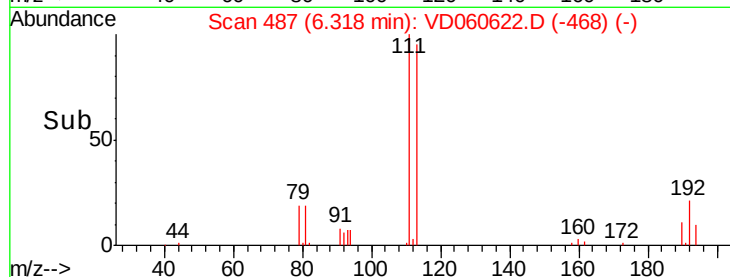
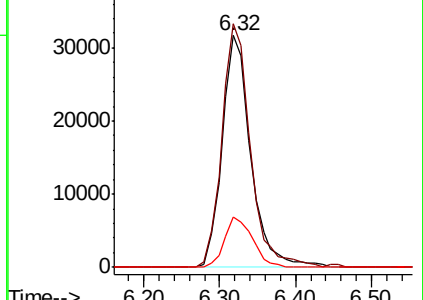
192 21.6 16.6 24.8



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: 4.262 ug/l

RT: 6.40 min Scan# 495

Delta R.T. -0.13 min

Lab File: VD060622.D

Acq: 18 Dec 2018 15:42

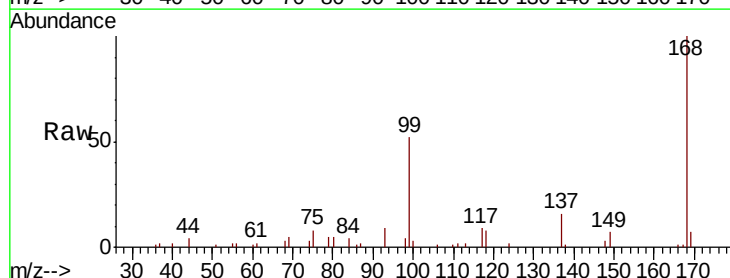
Tgt Ion: 75 Resp: 9992

Ion Ratio Lower Upper

75 100

110 7.3 18.3 54.8#

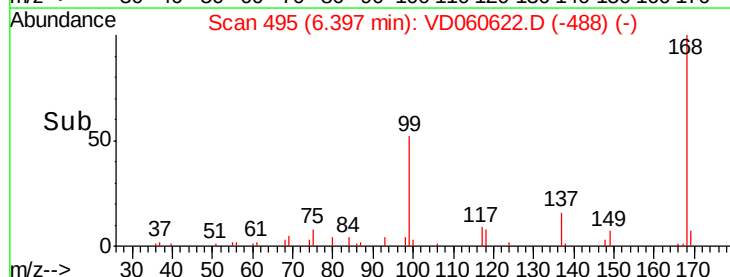
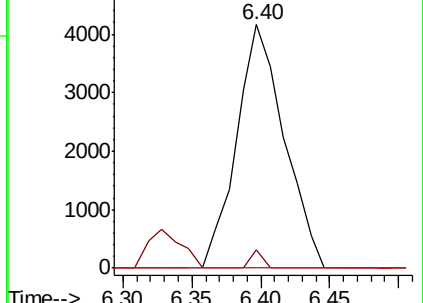
77 0.0 24.6 37.0#

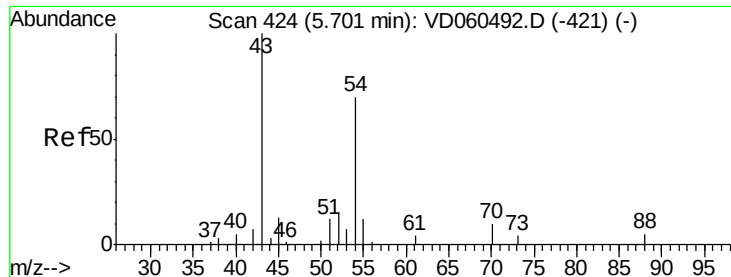


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

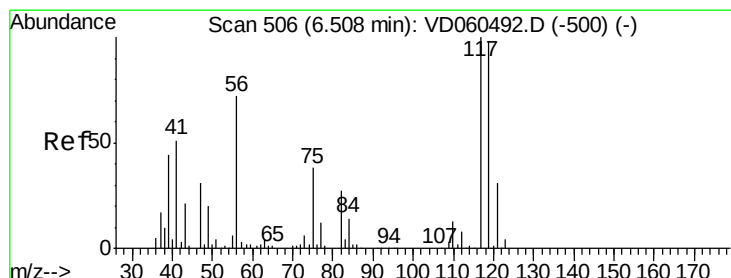
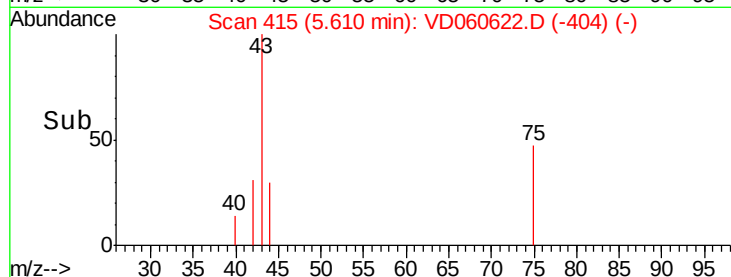
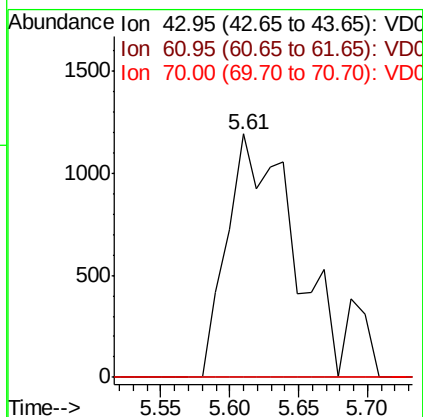
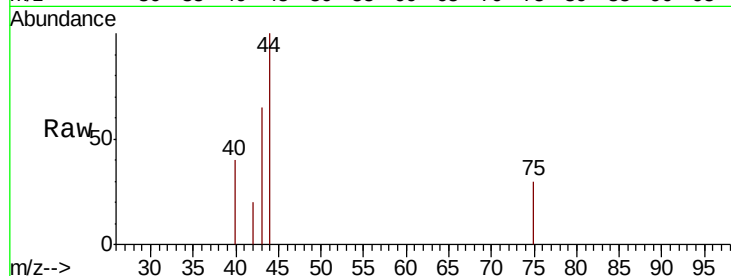




#37
Ethyl Acetate
Concen: 3.890 ug/l
RT: 5.61 min Scan# 415
Delta R.T. -0.09 min
Lab File: VD060622.D
Acq: 18 Dec 2018 15:42

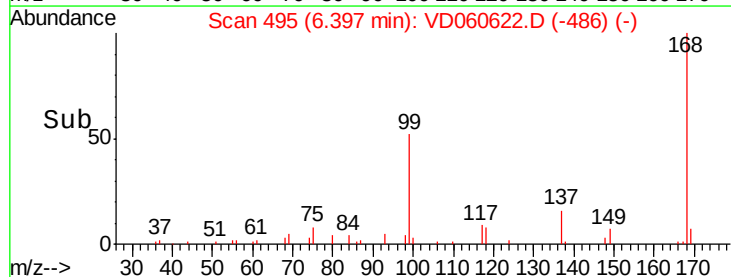
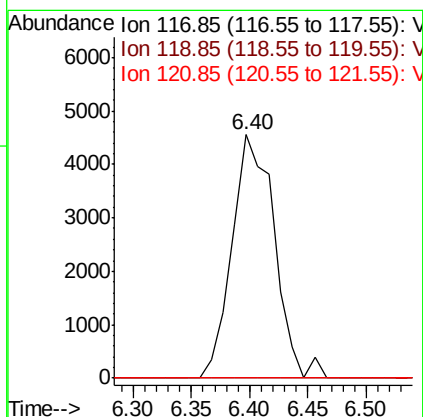
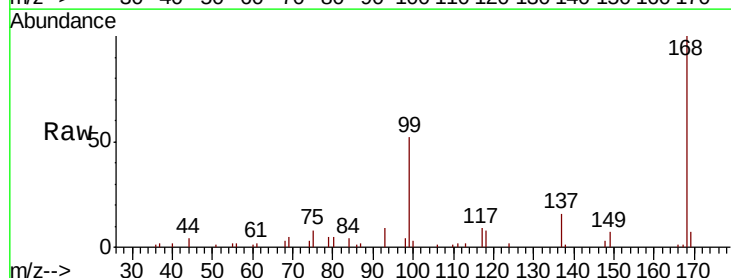
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MSVOA_D
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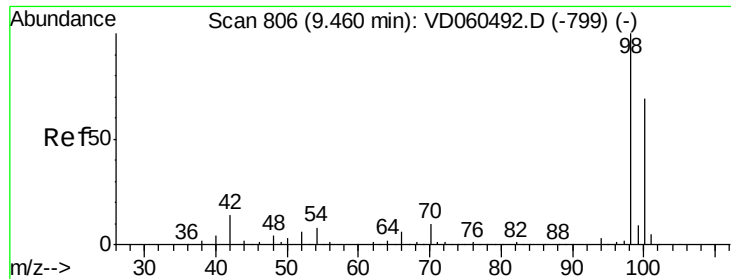
Tot Ion: 43 Resp: 3955
Ion Ratio Lower Upper
43 100
61 0.0 12.4 18.6#
70 0.0 5.4 8.0#



#38
Carbon Tetrachloride
Concen: 5.441 ug/l
RT: 6.40 min Scan# 495
Delta R.T. -0.11 min
Lab File: VD060622.D
Acq: 18 Dec 2018 15:42

Tgt Ion: 117 Resp: 11452
Ion Ratio Lower Upper
117 100
119 0.0 76.8 115.2#
121 0.0 24.4 36.6#

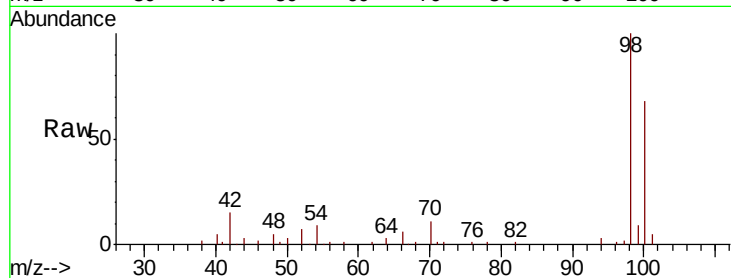




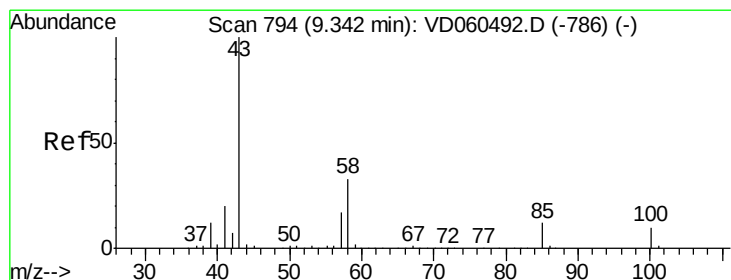
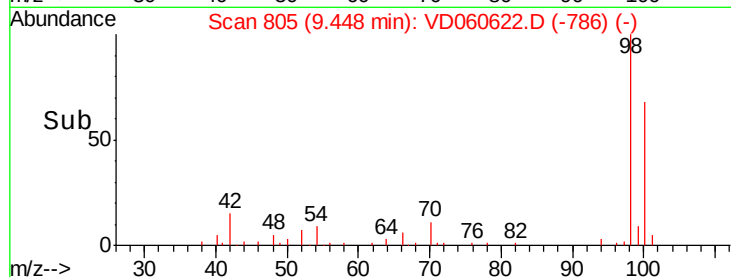
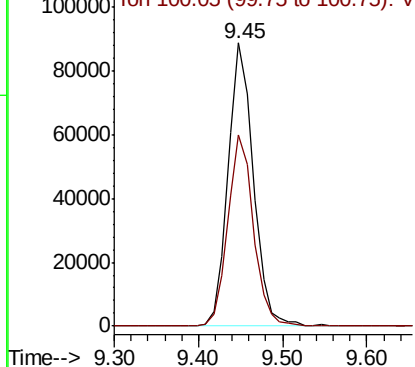
#50
Toluene-d8
Concen: N.D. ug/l
RT: 9.45 min Scan# 805
Delta R.T. -0.01 min
Lab File: VD060622.D
Acq: 18 Dec 2018 15:42

Instrument :
MSVOA_D
ClientSampleId :
VB16202

Tot Ion: 98 Resp: 185583
Ion Ratio Lower Upper
98 100
100 67.8 55.7 83.5

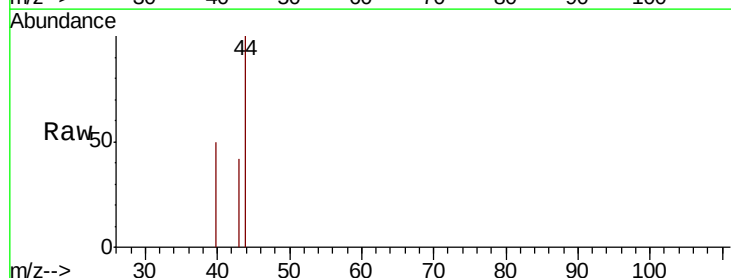


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

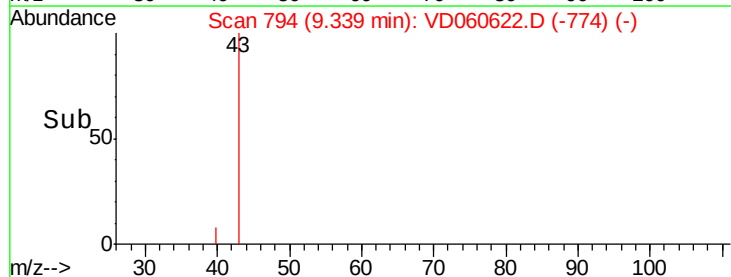
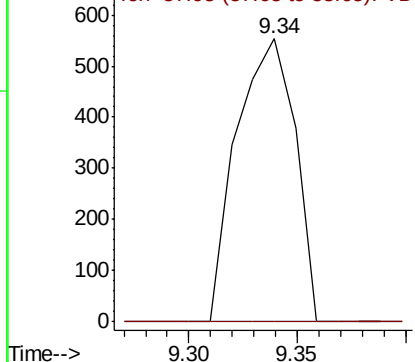


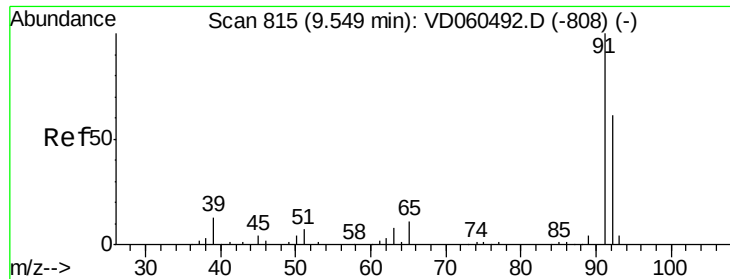
#51
4-Methyl-2-Pentanone
Concen: 1.324 ug/l
RT: 9.34 min Scan# 794
Delta R.T. -0.00 min
Lab File: VD060622.D
Acq: 18 Dec 2018 15:42

Tgt Ion: 43 Resp: 1034
Ion Ratio Lower Upper
43 100
58 0.0 26.3 39.5#



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





#52

Toluene

Concen: 5.818 ug/l

RT: 9.55 min Scan# 815

Delta R.T. -0.00 min

Lab File: VD060622.D

Acq: 18 Dec 2018 15:42

Instrument :

MSVOA_D

ClientSampleId :

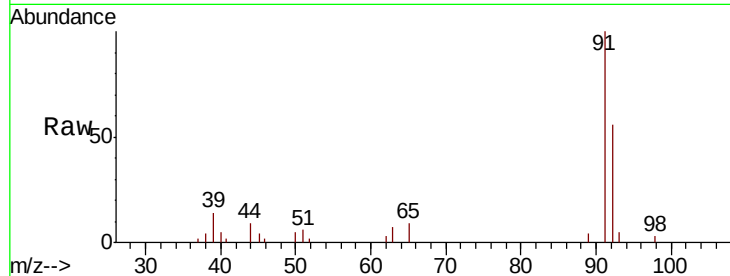
VB16202

Tot Ion: 92 Resp: 21787

Ion Ratio Lower Upper

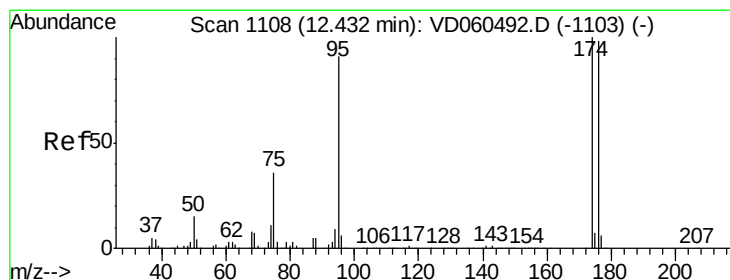
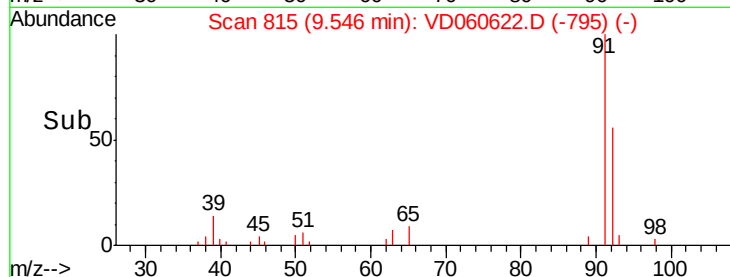
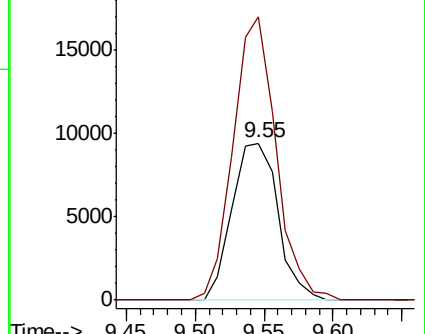
92 100

91 180.2 131.7 197.5



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.42 min Scan# 1107

Delta R.T. -0.01 min

Lab File: VD060622.D

Acq: 18 Dec 2018 15:42

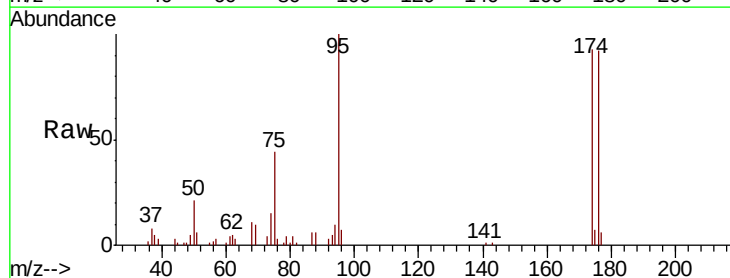
Tgt Ion: 95 Resp: 74280

Ion Ratio Lower Upper

95 100

174 93.2 0.0 219.4

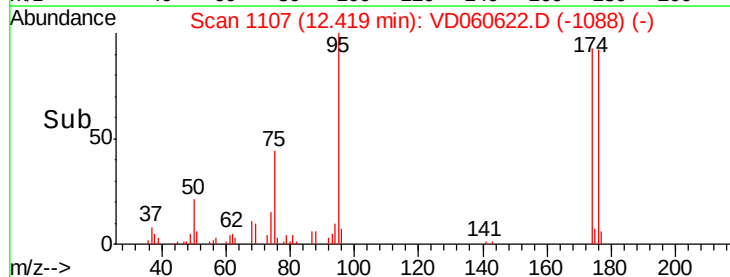
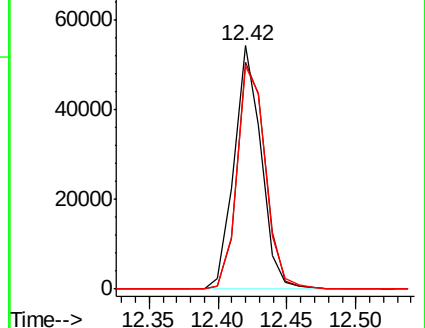
176 91.6 0.0 214.6

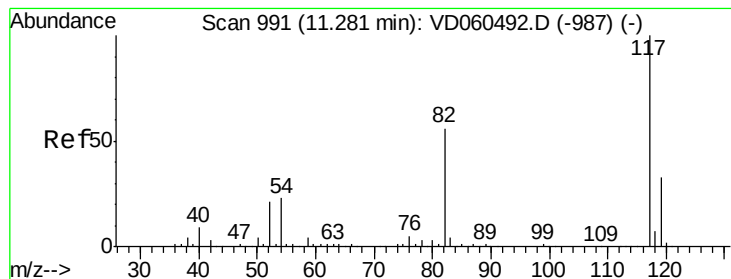


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.28 min Scan# 991

Delta R.T. -0.00 min

Lab File: VD060622.D

Acq: 18 Dec 2018 15:42

Instrument :

MSVOA_D

ClientSampleId :

VB16202

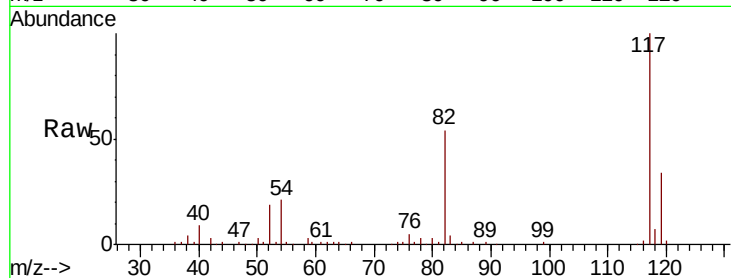
Tot Ion:117 Resp: 217368

Ion Ratio Lower Upper

117 100

82 54.4 45.2 67.8

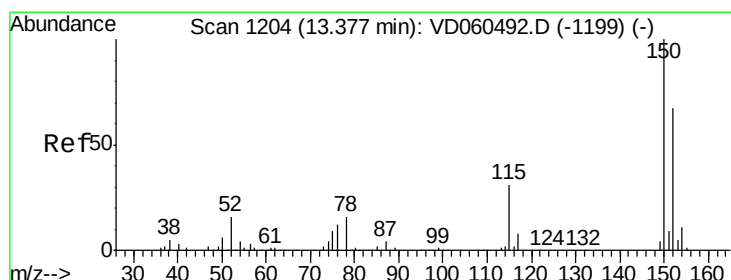
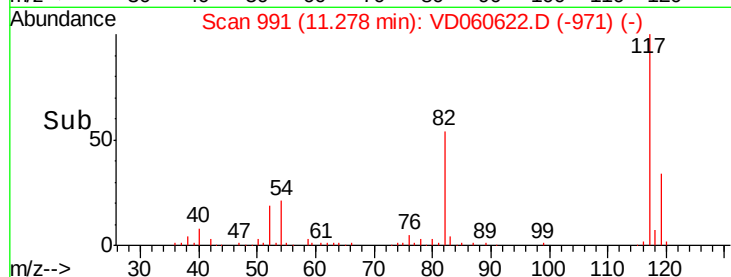
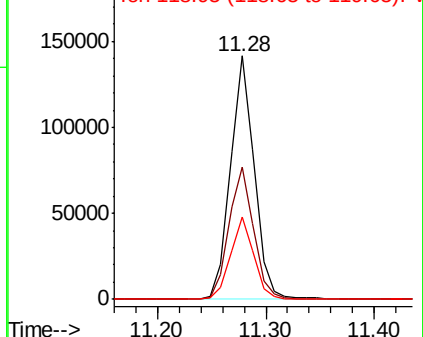
119 33.6 26.1 39.1



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.36 min Scan# 1203

Delta R.T. -0.01 min

Lab File: VD060622.D

Acq: 18 Dec 2018 15:42

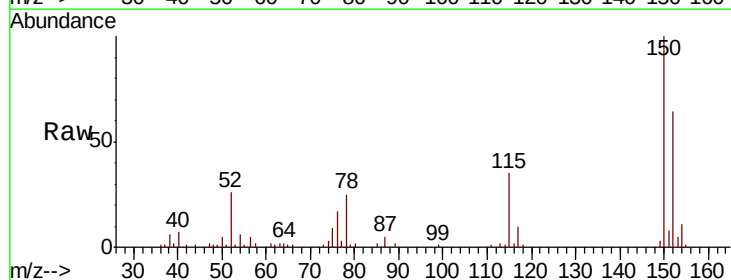
Tgt Ion:152 Resp: 103988

Ion Ratio Lower Upper

152 100

115 54.3 24.6 74.0

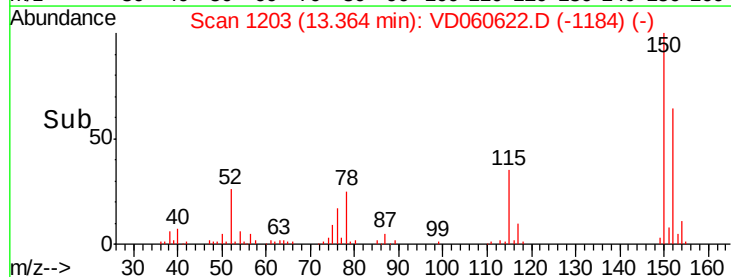
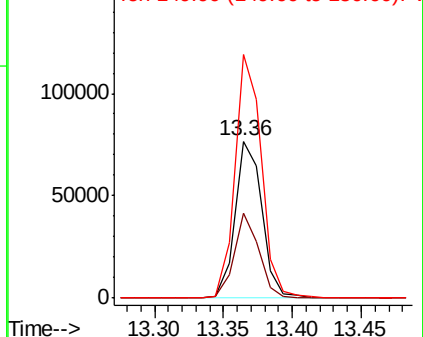
150 155.4 0.0 309.0

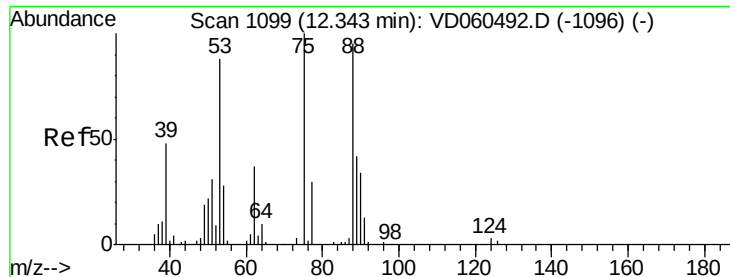


Abundance Ion 151.90 (151.60 to 152.60): V

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: 94.438 ug/l

RT: 12.42 min Scan# 1107

Delta R.T. 0.08 min

Lab File: VD060622.D

Acq: 18 Dec 2018 15:42

Instrument :

MSVOA_D

ClientSampleId :

VB16202

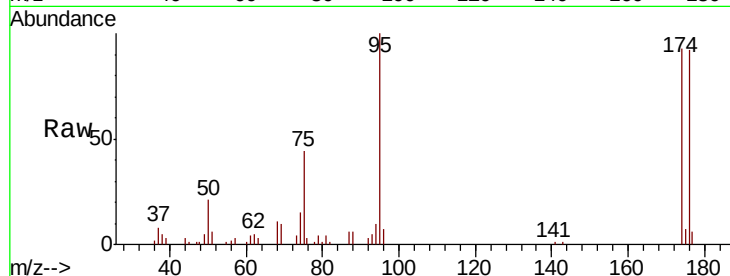
Tot Ion: 75 Resp: 31034

Ion Ratio Lower Upper

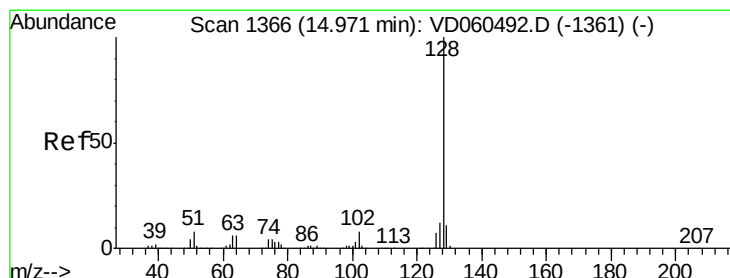
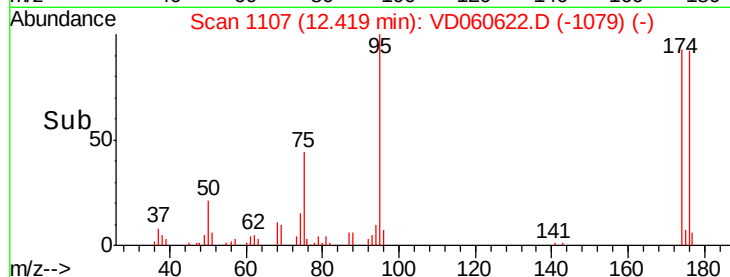
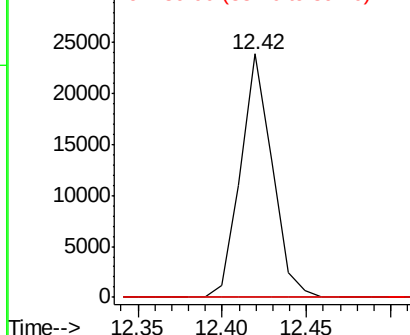
75 100

53 0.0 70.5 105.7#

89 0.0 33.6 50.4#



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: 1.821 ug/l

RT: 14.97 min Scan# 1366

Delta R.T. -0.00 min

Lab File: VD060622.D

Acq: 18 Dec 2018 15:42

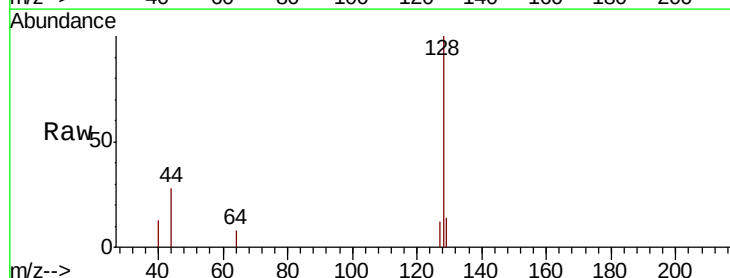
Tgt Ion: 128 Resp: 4846

Ion Ratio Lower Upper

128 100

127 12.2 9.8 14.8

129 13.9 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

