

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD051519\
 Data File : VD062400.D
 Acq On : 15 May 2019 20:49
 Operator : FY/SY
 Sample : K2865-02
 Misc : 3.02g/5mL/MSVOA D/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: May 16 03:59:47 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	7.05	168	260273	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	8.22	114	358672	50.00	ug/l	0.03
63) Chlorobenzene-d5	12.37	117	136359	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	14.52	152	12411	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	171803	71.03	ug/l	0.04
Spiked Amount			Recovery	=	142.06%	
35) Dibromofluoromethane	6.93	113	216806	72.85	ug/l	0.04
Spiked Amount			Recovery	=	145.70%	
50) Toluene-d8	10.41	98	248257	34.60	ug/l	0.02
Spiked Amount			Recovery	=	69.20%	
62) 4-Bromofluorobenzene	13.56	95	22984	7.98	ug/l	0.02
Spiked Amount			Recovery	=	15.96%	

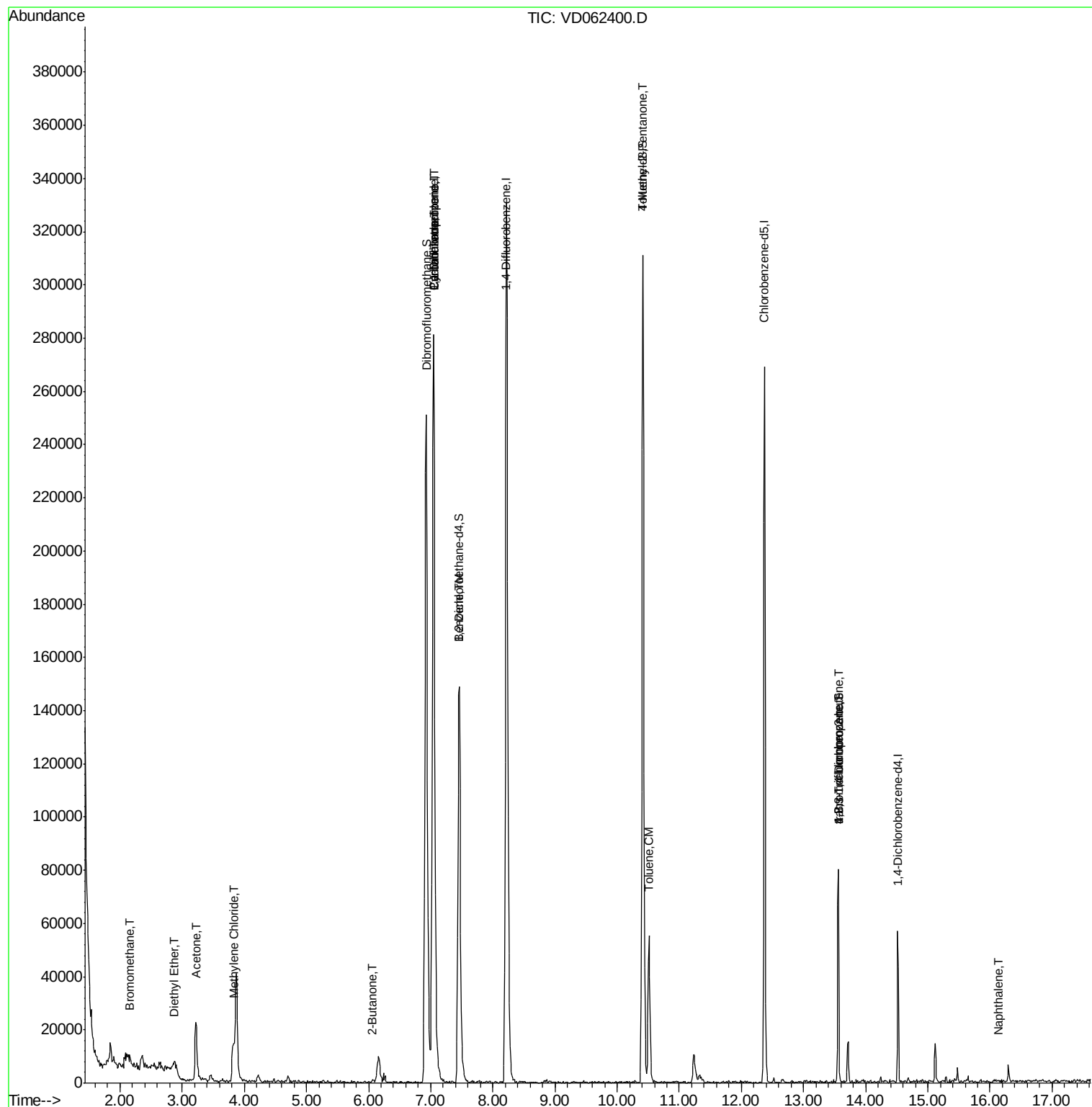
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.16	94	673	1.625	ug/l #	12
8) Diethyl Ether	2.86	74	707	1.067	ug/l	100
16) Acetone	3.22	43	42770	84.319	ug/l #	79
20) Methylene Chloride	3.82	84	9496	4.484	ug/l	96
25) 2-Butanone	6.07	43	1186	2.144	ug/l #	56
31) Cyclohexane	7.06	56	5859	2.309	ug/l #	10
36) 1,1-Dichloropropene	7.05	75	20317	6.909	ug/l #	45
38) Carbon Tetrachloride	7.05	117	28364	6.969	ug/l #	16
40) Benzene	7.46	78	8835	1.330	ug/l #	80
51) 4-Methyl-2-Pentanone	10.40	43	1233	1.084	ug/l #	1
52) Toluene	10.51	92	29140	6.744	ug/l	100
76) 1,2,3-Trichloropropane	13.55	75	9903	67.141	ug/l #	42
81) trans-1,4-Dichloro-2-buten	13.55	75	11039	265.115	ug/l #	16
95) Naphthalene	16.13	128	695	2.183	ug/l #	70

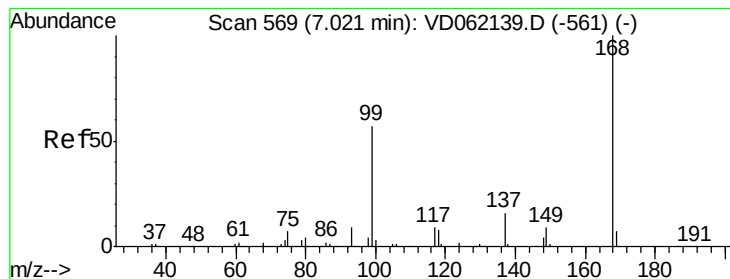
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.03 min

Lab File: VD062400.D

Acq: 15 May 2019 20:49

Instrument :

MSVOA_D

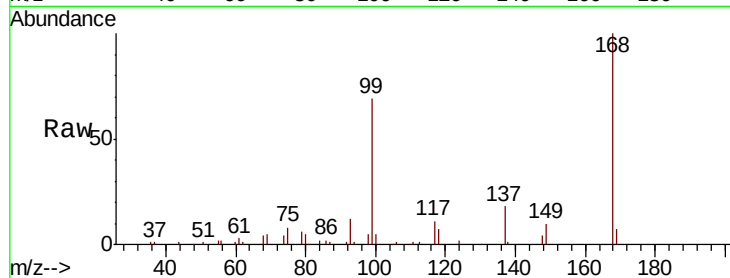
ClientSampleId :

Tot Ion:168 Resp: 260273

Ion Ratio Lower Upper

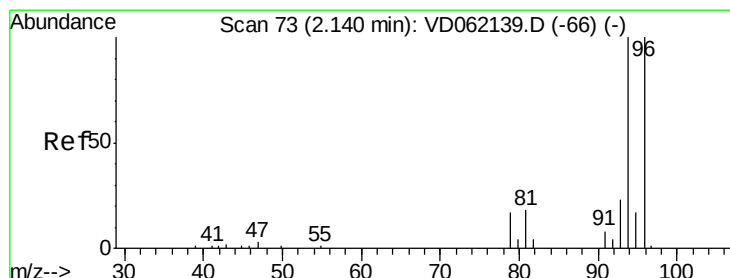
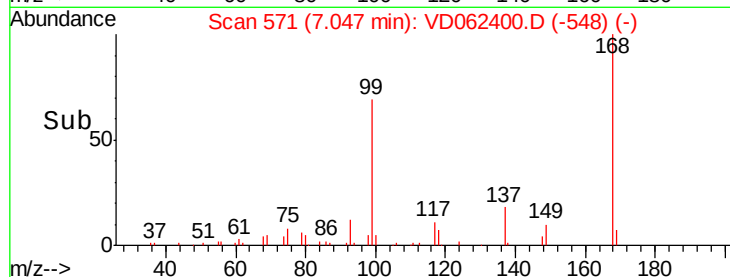
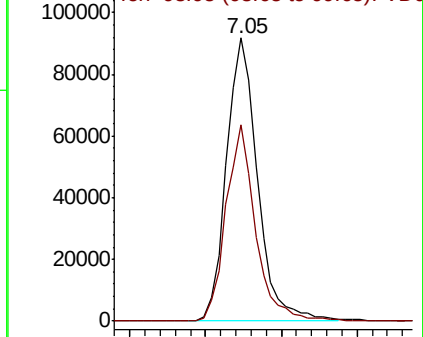
168 100

99 69.2 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: 1.625 ug/l

RT: 2.16 min Scan# 74

Delta R.T. 0.02 min

Lab File: VD062400.D

Acq: 15 May 2019 20:49

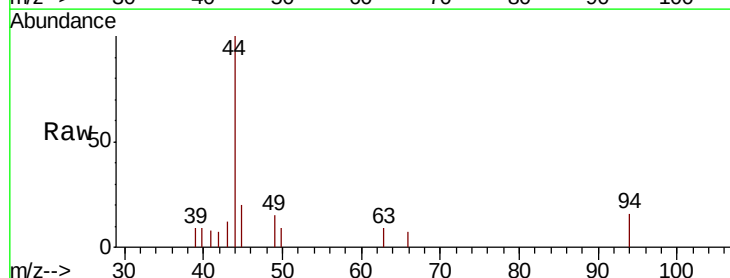
Tgt Ion: 94 Resp: 673

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

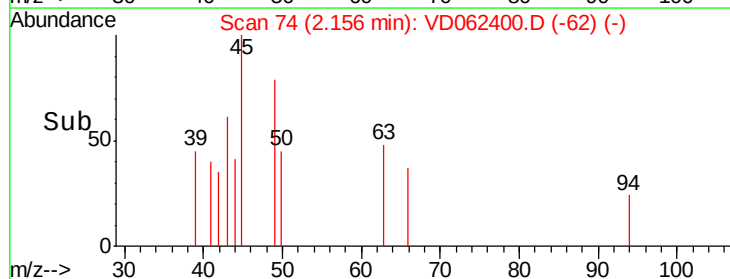
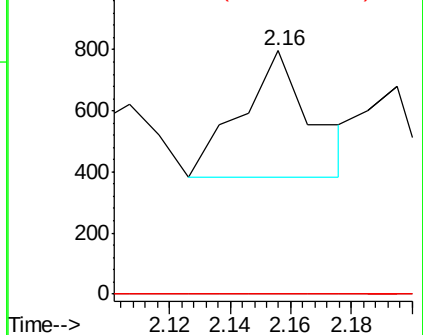
93 0.0 18.5 27.7#

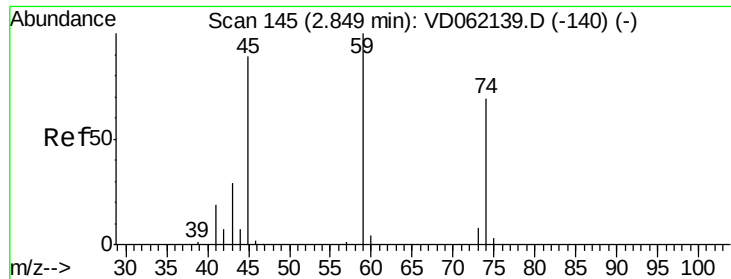


Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC





#8

Diethyl Ether

Concen: 1.067 ug/l

RT: 2.86 min Scan# 146

Delta R.T. 0.02 min

Lab File: VD062400.D

Acq: 15 May 2019 20:49

Instrument :

MSVOA_D

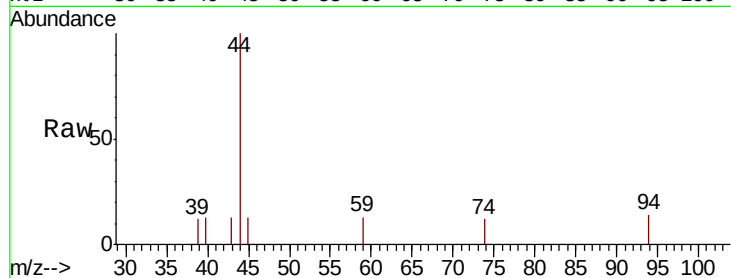
ClientSampled :

Tot Ion: 74 Resp: 707

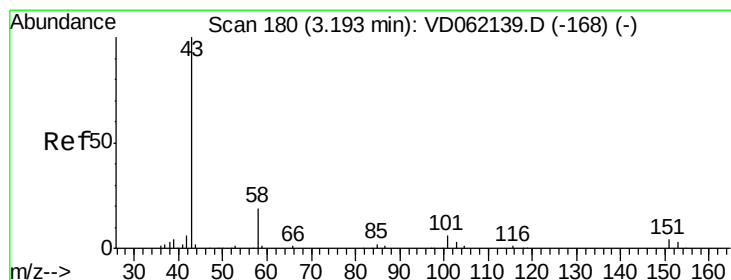
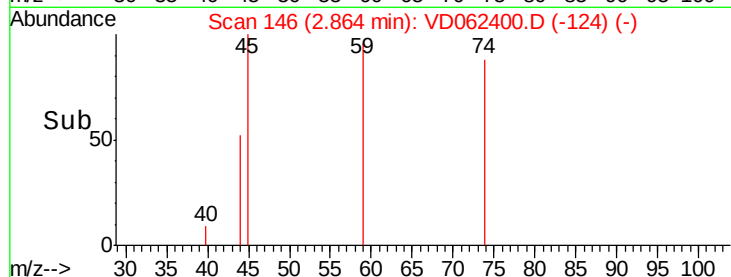
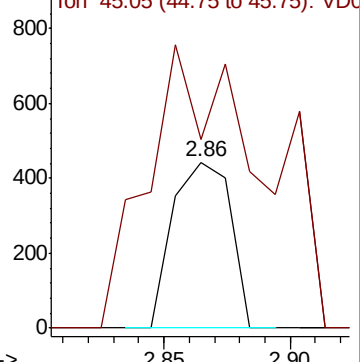
Ion Ratio Lower Upper

74 100

45 113.3 56.9 170.7



Abundance Ion 74.00 (73.70 to 74.70): VDC



#16

Acetone

Concen: 84.319 ug/l

RT: 3.22 min Scan# 182

Delta R.T. 0.03 min

Lab File: VD062400.D

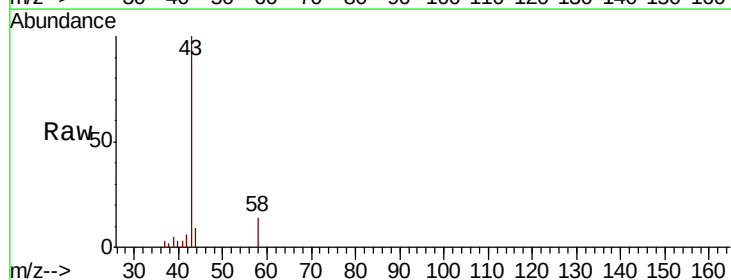
Acq: 15 May 2019 20:49

Tgt Ion: 43 Resp: 42770

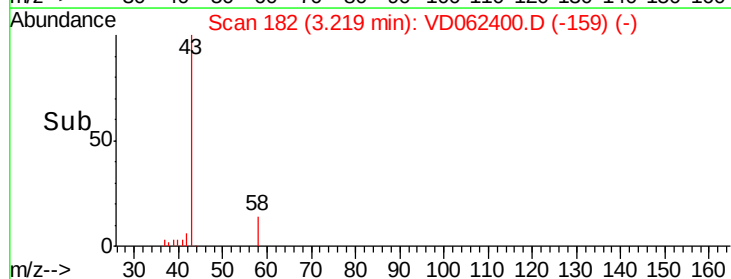
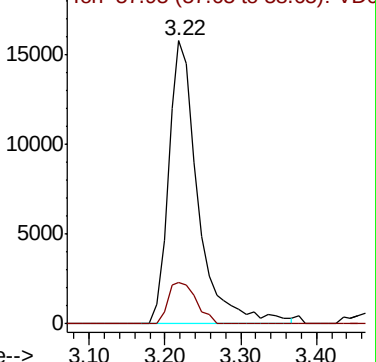
Ion Ratio Lower Upper

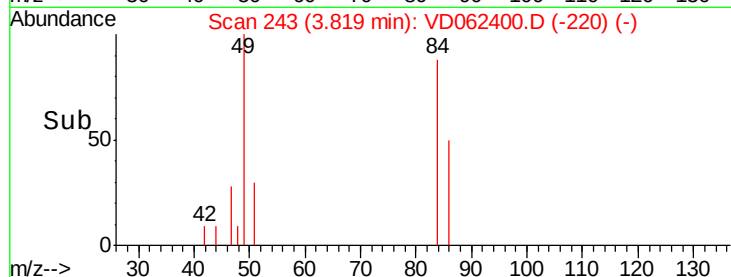
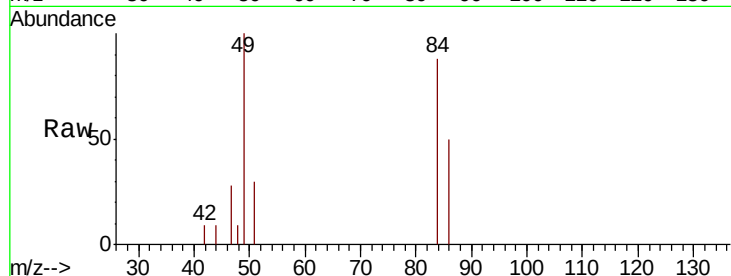
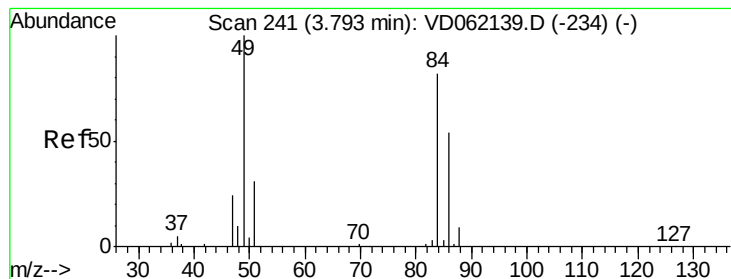
43 100

58 14.4 19.9 29.9#



Abundance Ion 42.95 (42.65 to 43.65): VDC





#20

Methylene Chloride

Concen: 4.484 ug/l

RT: 3.82 min Scan# 243

Delta R.T. 0.03 min

Lab File: VD062400.D

Acq: 15 May 2019 20:49

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 84 Resp: 9496

Ion Ratio Lower Upper

84 100

49 114.2 94.0 141.0

51 33.9 29.0 43.4

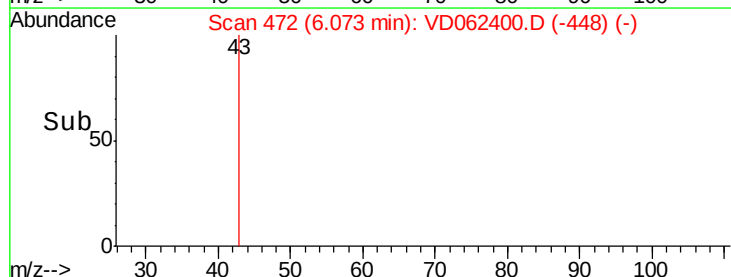
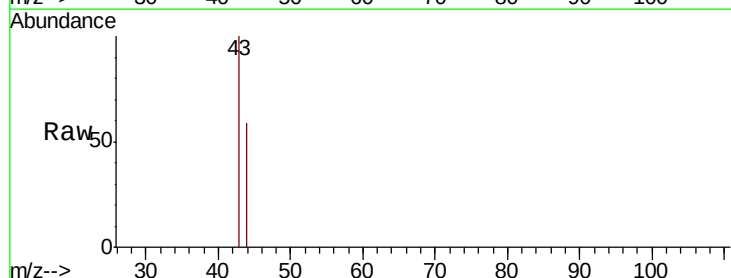
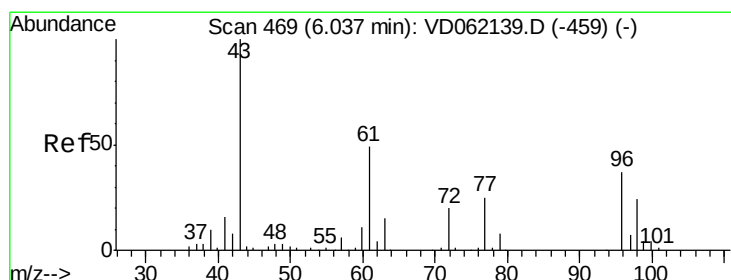
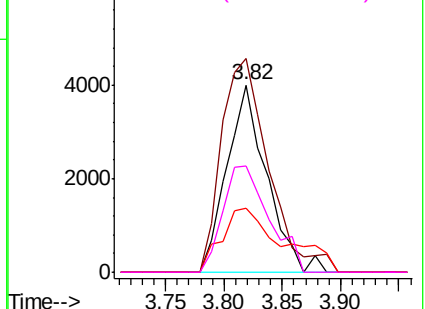
86 57.1 49.8 74.6

Abundance Ion 83.95 (83.65 to 84.65): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC



#25

2-Butanone

Concen: 2.144 ug/l

RT: 6.07 min Scan# 472

Delta R.T. 0.04 min

Lab File: VD062400.D

Acq: 15 May 2019 20:49

Tgt Ion: 43 Resp: 1186

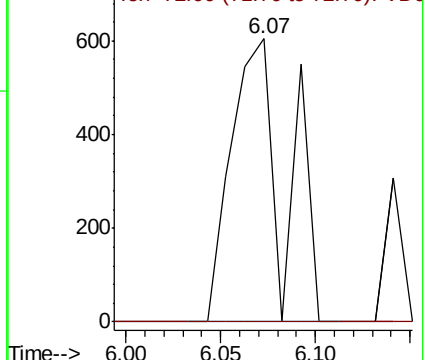
Ion Ratio Lower Upper

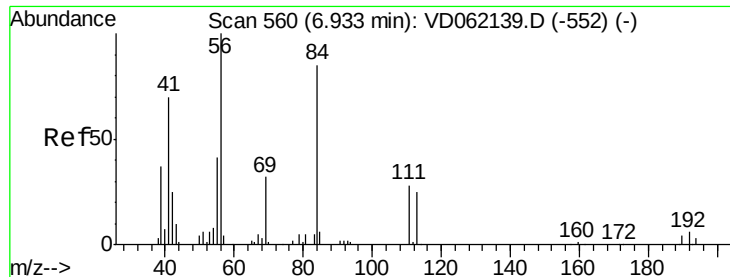
43 100

72 0.0 16.2 24.4#

Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC

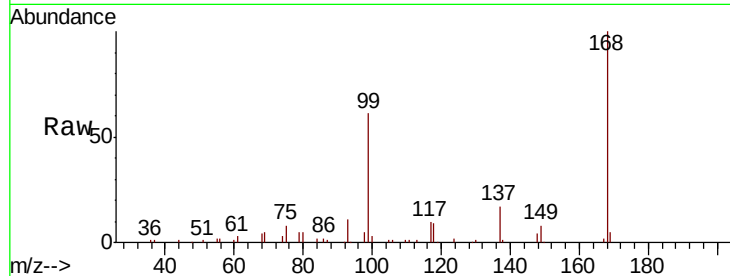




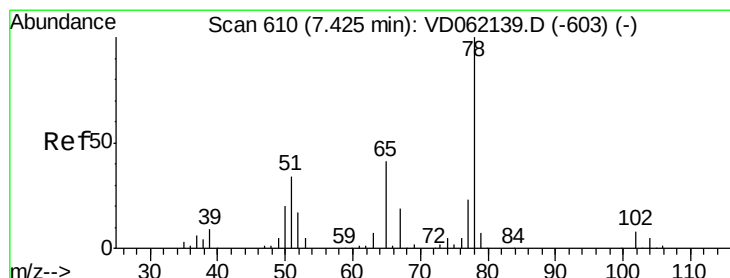
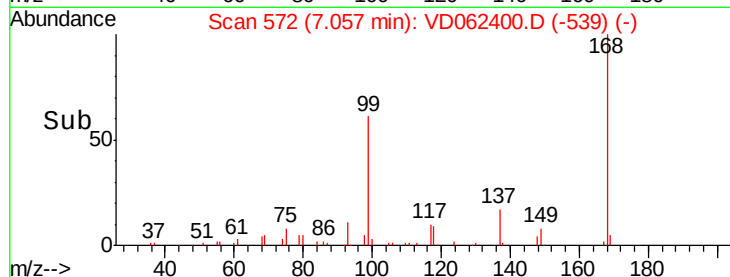
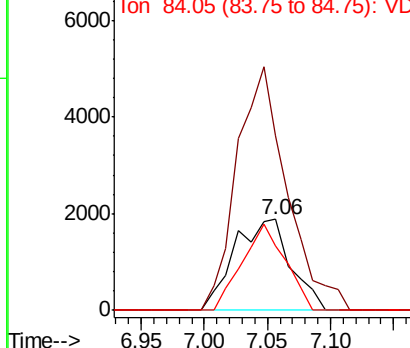
#31
Cyclohexane
Concen: 2.309 ug/l
RT: 7.06 min Scan# 572
Delta R.T. 0.12 min
Lab File: VD062400.D
Acq: 15 May 2019 20:49

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 56 Resp: 5859
Ion Ratio Lower Upper
56 100
69 192.1 25.8 38.6#
84 71.0 72.2 108.4#

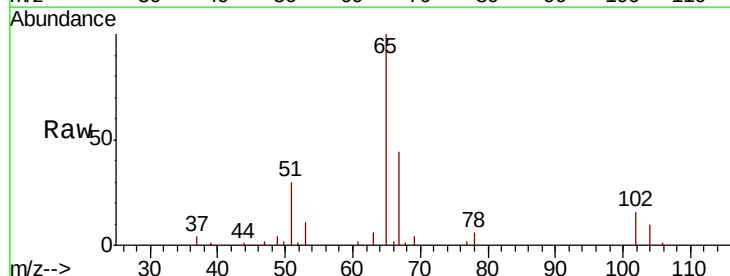


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

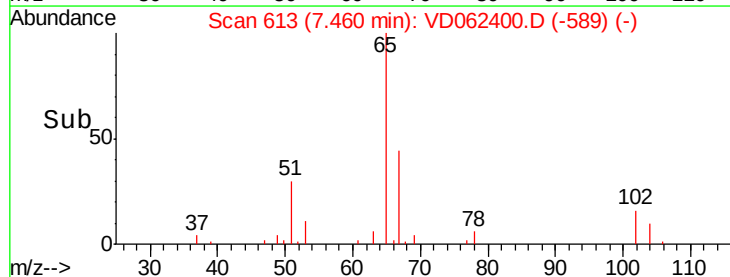
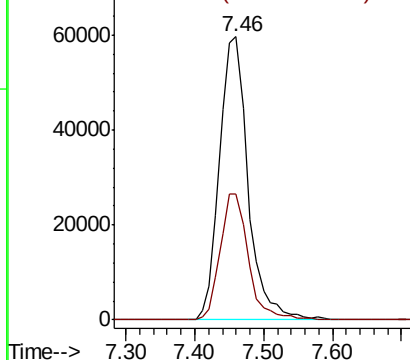


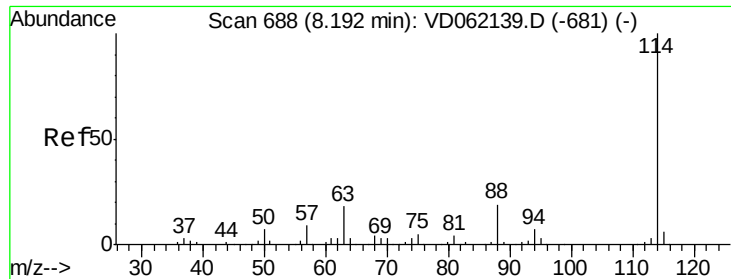
#33
1,2-Dichloroethane-d4
Concen: 71.030 ug/l
RT: 7.46 min Scan# 613
Delta R.T. 0.04 min
Lab File: VD062400.D
Acq: 15 May 2019 20:49

Tgt Ion: 65 Resp: 171803
Ion Ratio Lower Upper
65 100
67 44.3 0.0 98.0



Abundance Ion 64.95 (64.65 to 65.65): VDC
Ion 66.90 (66.60 to 67.60): VDC

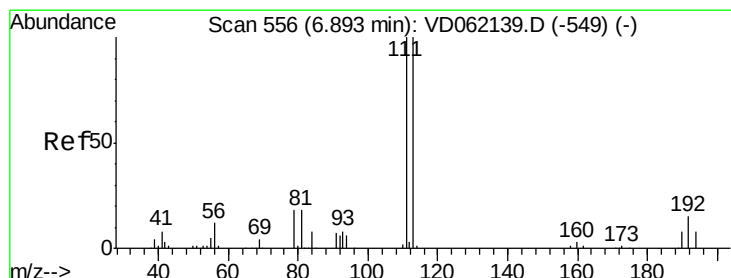
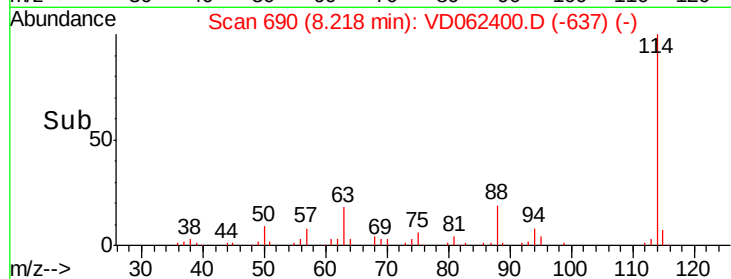
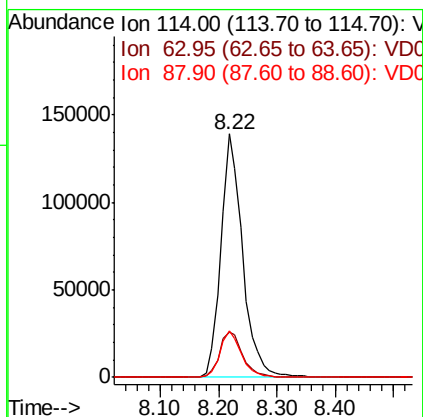
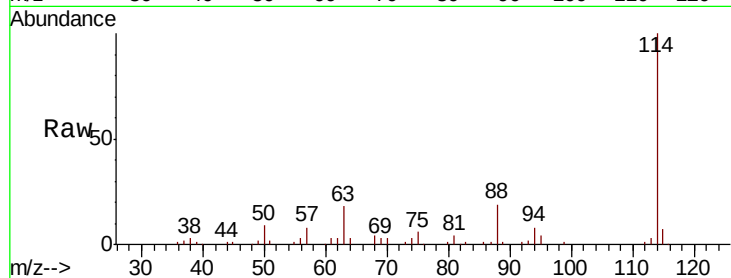




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 690
 Delta R.T. 0.03 min
 Lab File: VD062400.D
 Acq: 15 May 2019 20:49

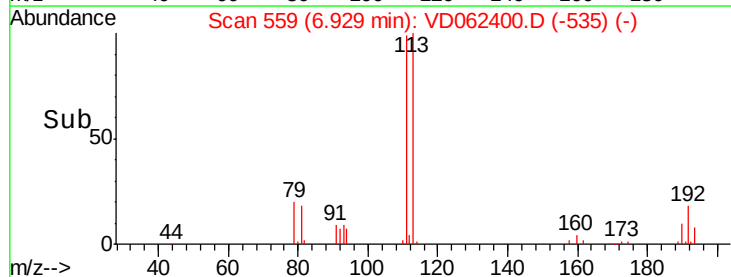
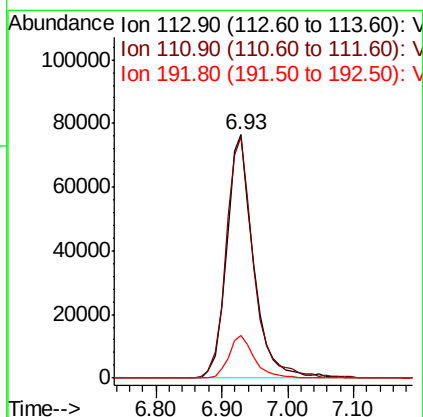
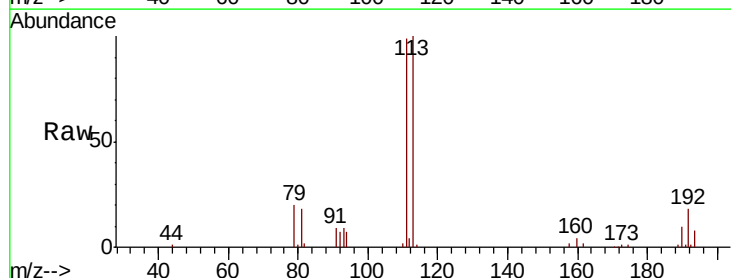
Instrument :
 MSVOA_D
 ClientSampleId :

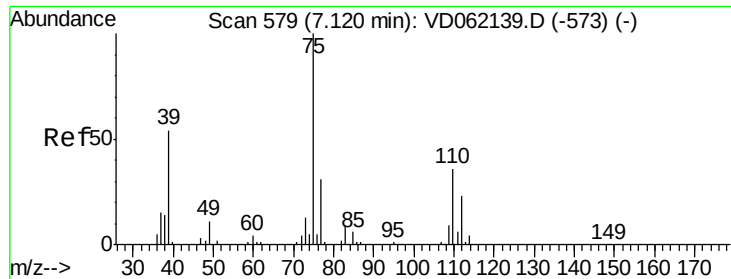
Tot Ion:114 Resp: 358672
 Ion Ratio Lower Upper
 114 100
 63 18.5 0.0 32.4
 88 19.4 0.0 33.6



#35
 Dibromofluoromethane
 Concen: 72.853 ug/l
 RT: 6.93 min Scan# 559
 Delta R.T. 0.04 min
 Lab File: VD062400.D
 Acq: 15 May 2019 20:49

Tgt Ion:113 Resp: 216806
 Ion Ratio Lower Upper
 113 100
 111 99.2 78.5 117.7
 192 17.5 13.0 19.4





#36

1,1-Dichloropropene

Concen: 6.909 ug/l

RT: 7.05 min Scan# 571

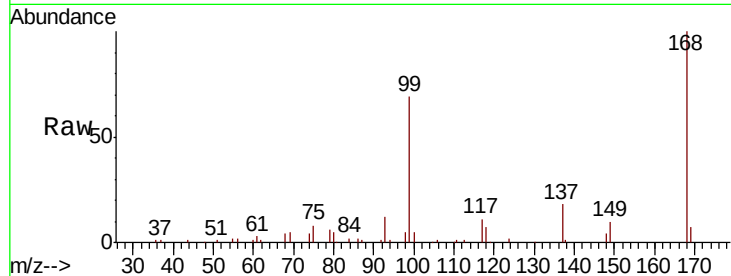
Delta R.T. -0.07 min

Lab File: VD062400.D

Acq: 15 May 2019 20:49

Instrument :
MSVOA_D
ClientSampleId :

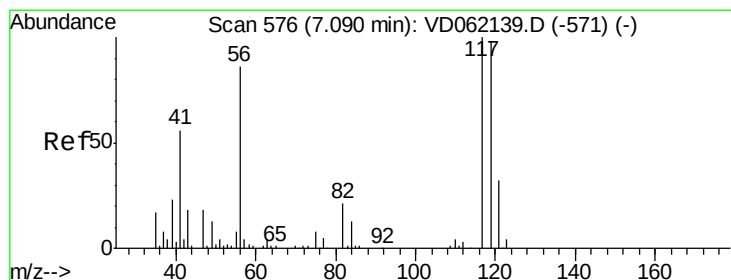
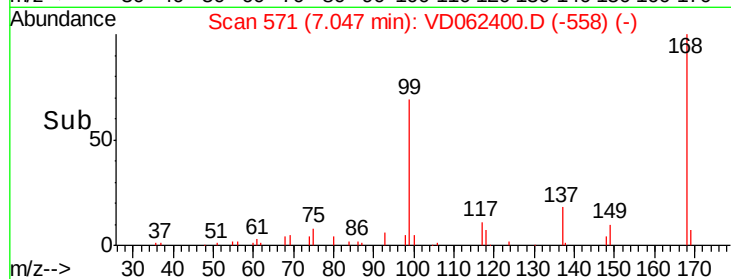
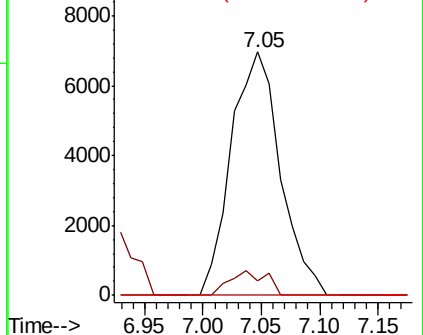
Tot Ion:	75	Resp:	20317
Ion	Ratio	Lower	Upper
75	100		
110	5.8	19.1	57.1#
77	0.0	25.6	38.4#



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: 6.969 ug/l

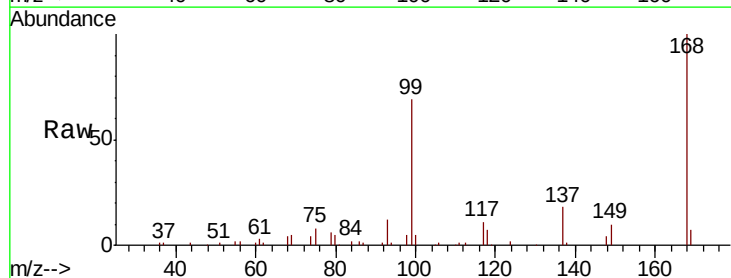
RT: 7.05 min Scan# 571

Delta R.T. -0.04 min

Lab File: VD062400.D

Acq: 15 May 2019 20:49

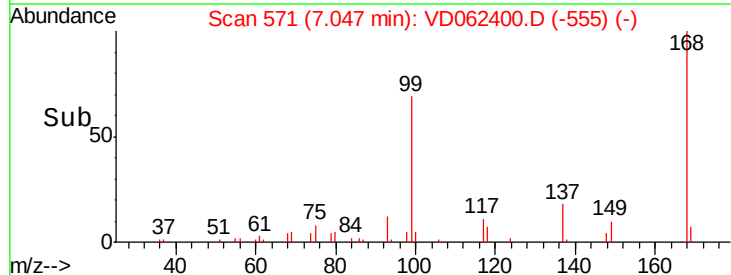
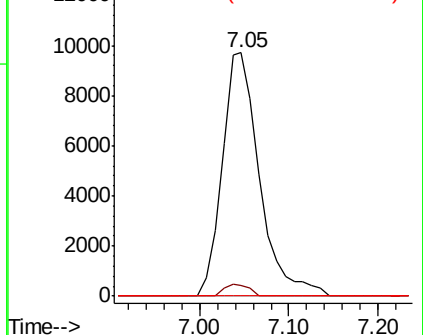
Tgt Ion:	117	Resp:	28364
Ion	Ratio	Lower	Upper
117	100		
119	4.6	75.8	113.8#
121	0.0	25.9	38.9#

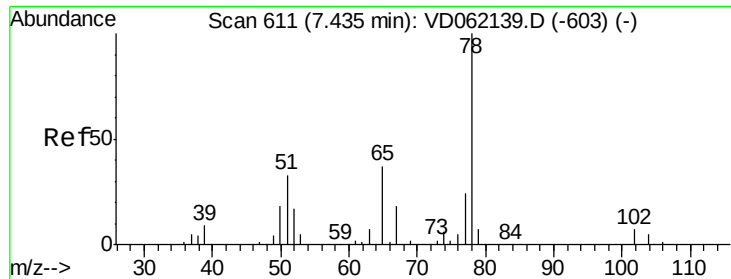


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V





#40

Benzene

Concen: 1.330 ug/l

RT: 7.46 min Scan# 613

Delta R.T. 0.03 min

Lab File: VD062400.D

Acq: 15 May 2019 20:49

Instrument :

MSVOA_D

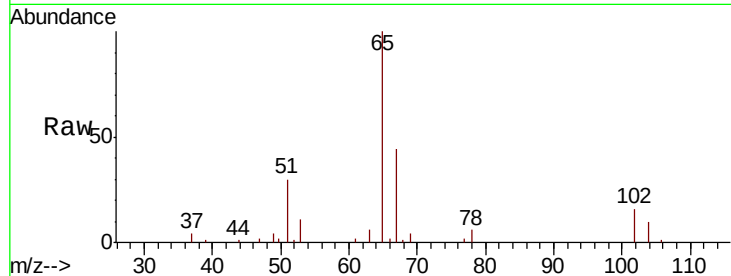
ClientSampleId :

Tot Ion: 78 Resp: 8835

Ion Ratio Lower Upper

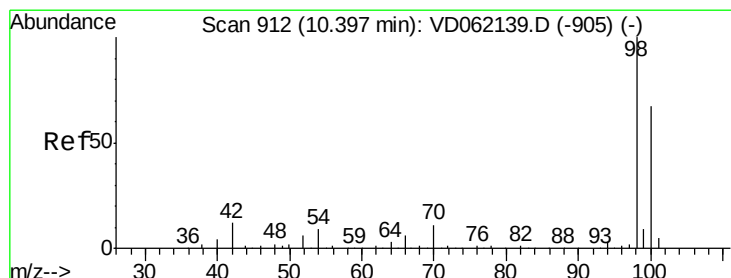
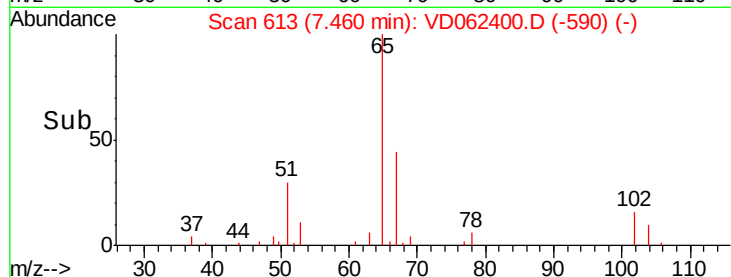
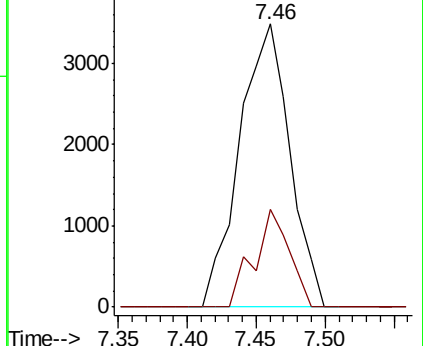
78 100

77 34.3 19.7 29.5#



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC



#50

Toluene-d8

Concen: 34.599 ug/l

RT: 10.41 min Scan# 913

Delta R.T. 0.02 min

Lab File: VD062400.D

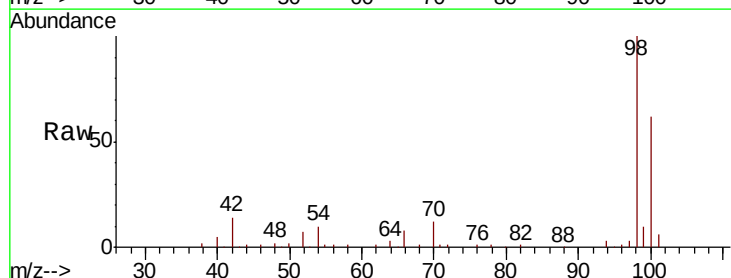
Acq: 15 May 2019 20:49

Tgt Ion: 98 Resp: 248257

Ion Ratio Lower Upper

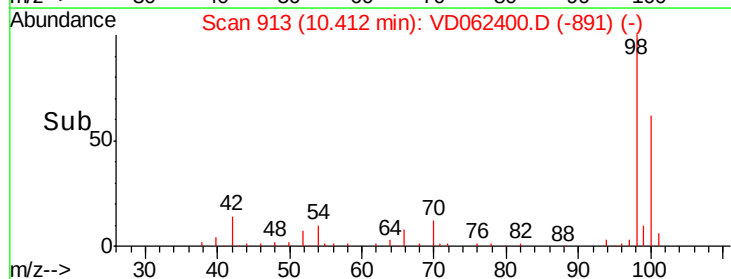
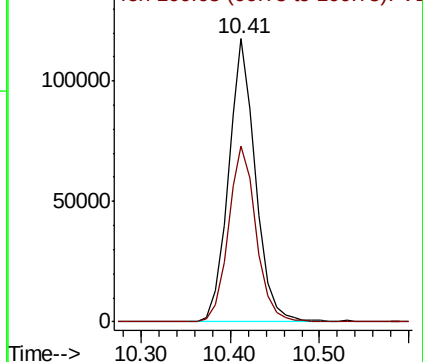
98 100

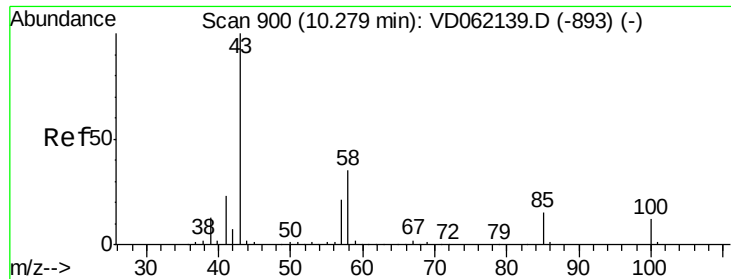
100 62.3 53.8 80.8



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: 1.084 ug/l

RT: 10.40 min Scan# 912

Delta R.T. 0.12 min

Lab File: VD062400.D

Acq: 15 May 2019 20:49

Instrument :

MSVOA_D

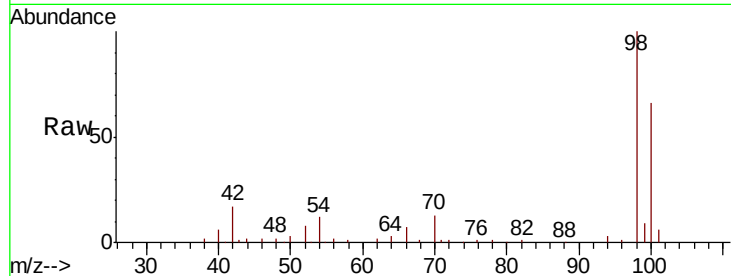
ClientSampleId :

Tot Ion: 43 Resp: 1233

Ion Ratio Lower Upper

43 100

58 140.6 30.4 45.6#



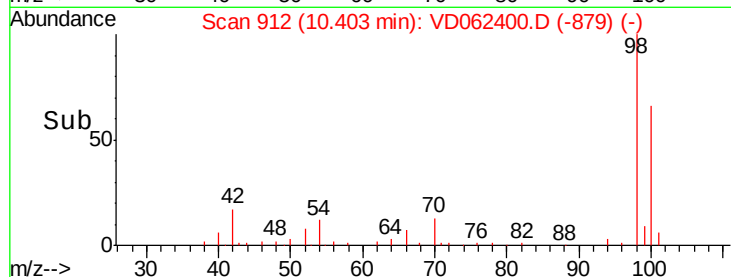
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

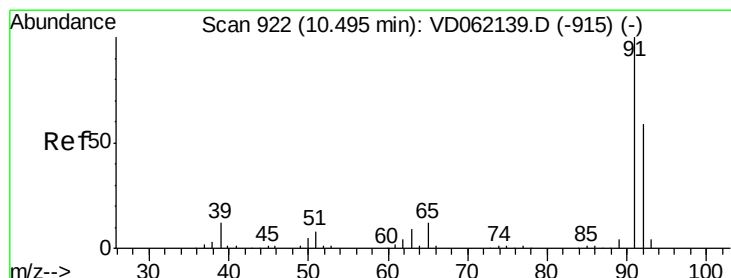
1000

10.40

500



Time-->



#52

Toluene

Concen: 6.744 ug/l

RT: 10.51 min Scan# 923

Delta R.T. 0.02 min

Lab File: VD062400.D

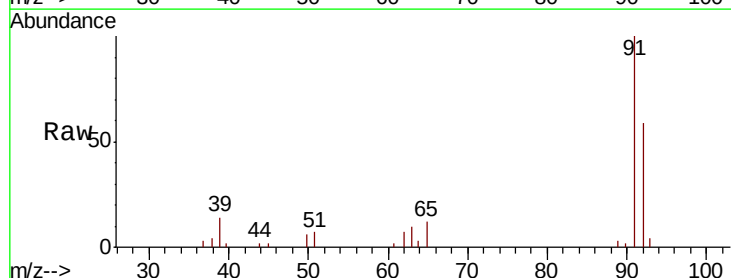
Acq: 15 May 2019 20:49

Tgt Ion: 92 Resp: 29140

Ion Ratio Lower Upper

92 100

91 170.2 136.6 204.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

25000

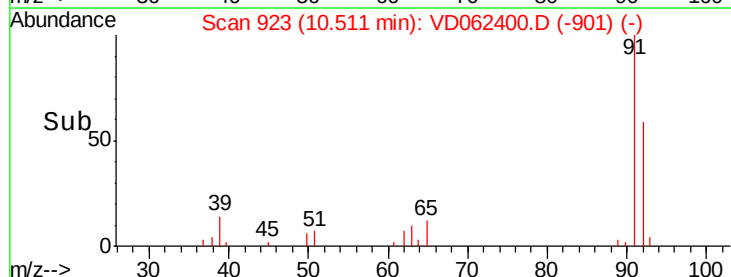
10.51

20000

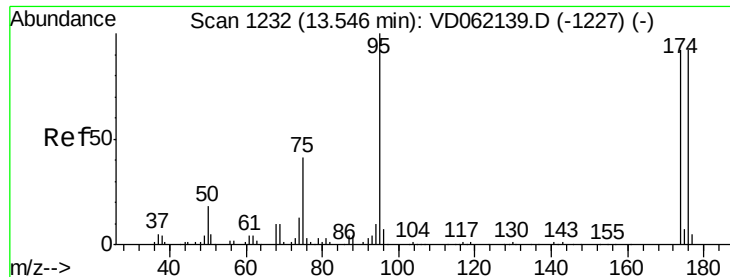
15000

10000

5000



Time-->



#62

4-Bromofluorobenzene

Concen: 7.977 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.02 min

Lab File: VD062400.D

Acq: 15 May 2019 20:49

Instrument :

MSVOA_D

ClientSampleId :

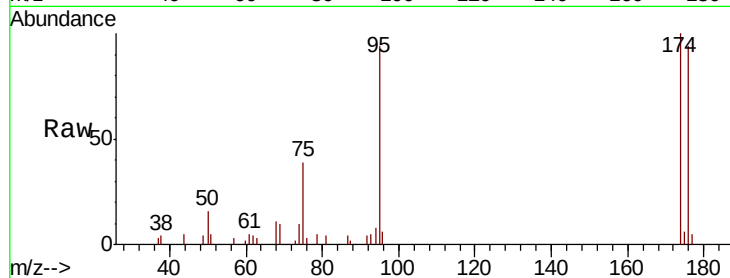
Tot Ion: 95 Resp: 22984

Ion Ratio Lower Upper

95 100

174 106.4 0.0 181.8

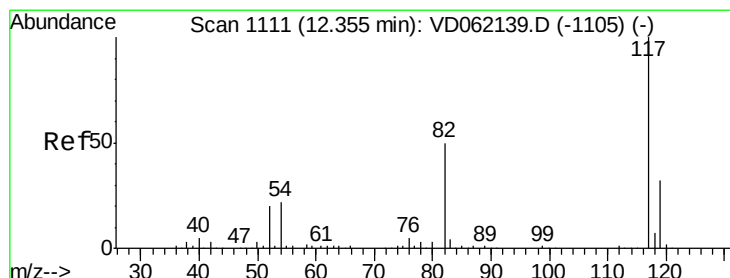
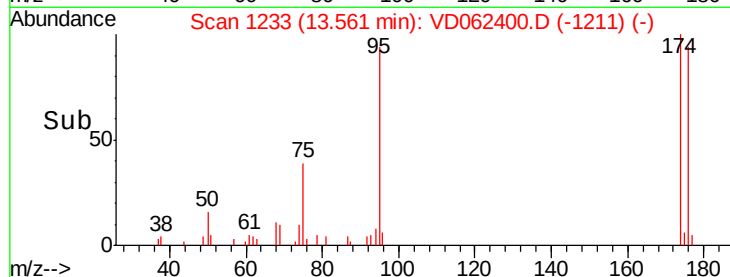
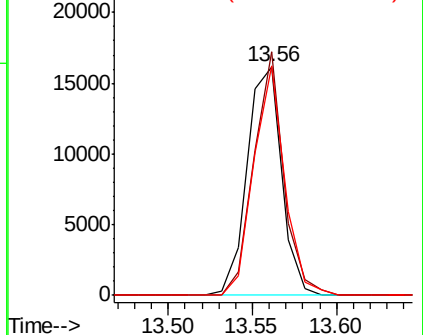
176 100.3 0.0 174.4



Abundance Ion 95.00 (94.70 to 95.70): V

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: 12.37 min Scan# 1112

Delta R.T. 0.02 min

Lab File: VD062400.D

Acq: 15 May 2019 20:49

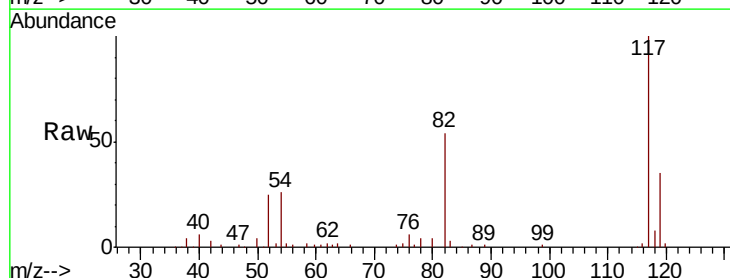
Tgt Ion: 117 Resp: 136359

Ion Ratio Lower Upper

117 100

82 54.5 36.2 54.2#

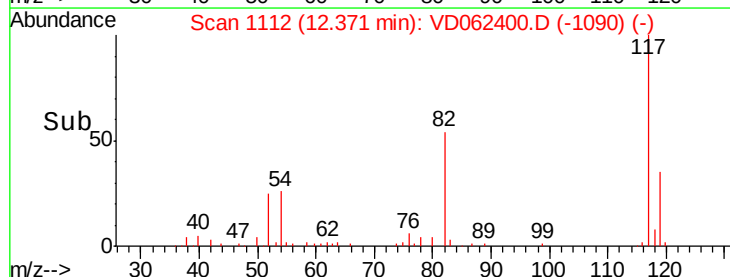
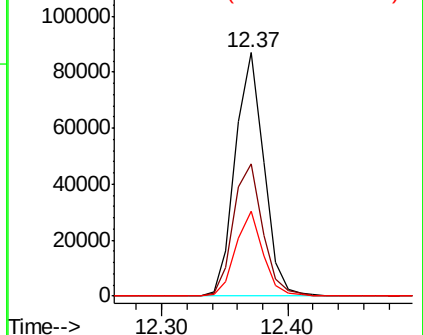
119 35.0 26.2 39.4

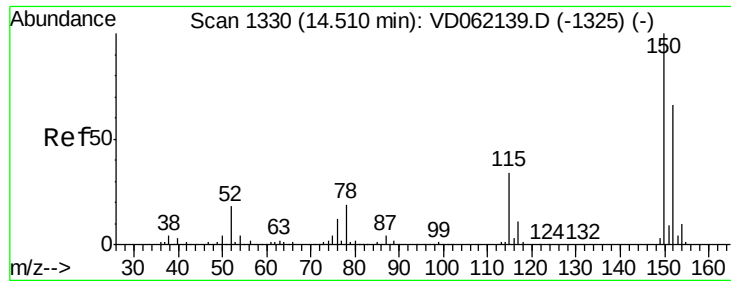


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

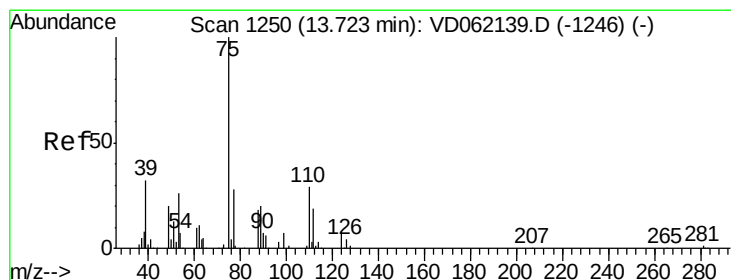
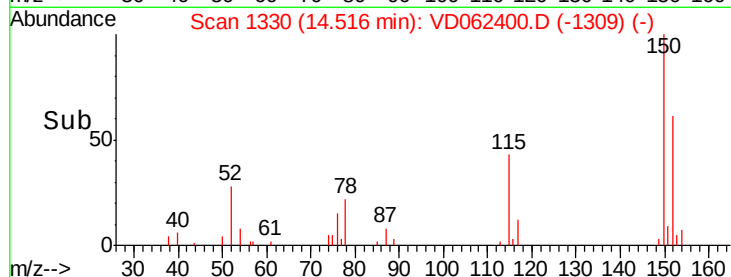
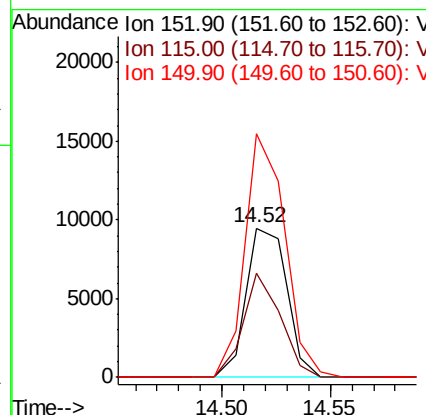
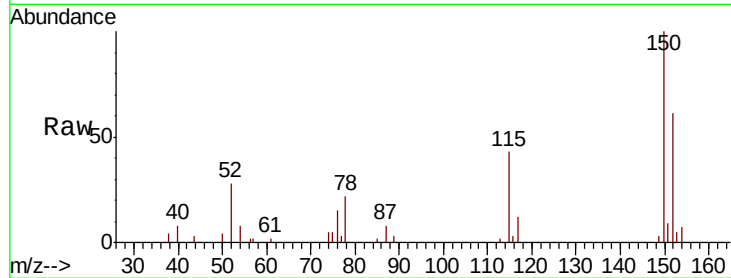




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 14.52 min Scan# 1330
 Delta R.T. 0.01 min
 Lab File: VD062400.D
 Acq: 15 May 2019 20:49

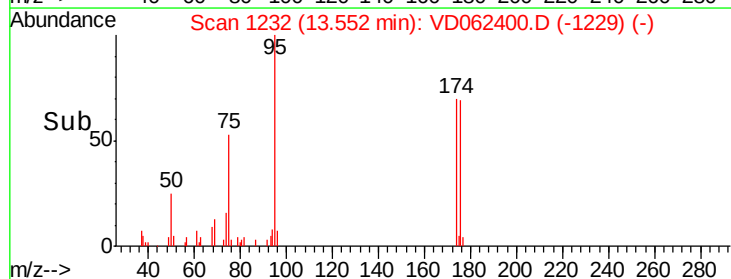
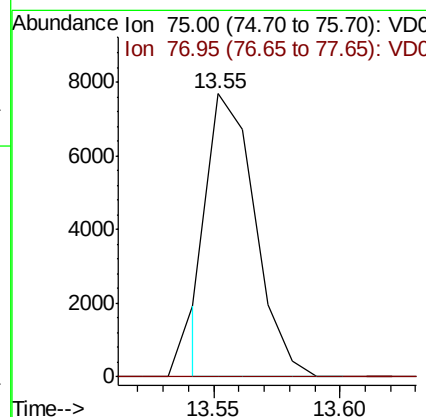
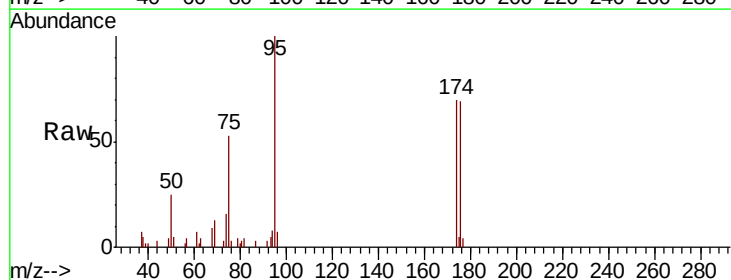
Instrument :
 MSVOA_D
 ClientSampleId :

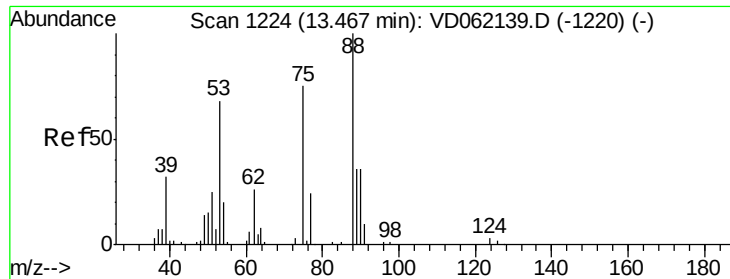
Tot Ion:152 Resp: 12411
 Ion Ratio Lower Upper
 152 100
 115 69.5 30.9 92.7
 150 163.2 0.0 314.8



#76
 1,2,3-Trichloropropane
 Concen: 67.141 ug/l
 RT: 13.55 min Scan# 1232
 Delta R.T. -0.17 min
 Lab File: VD062400.D
 Acq: 15 May 2019 20:49

Tgt Ion: 75 Resp: 9903
 Ion Ratio Lower Upper
 75 100
 77 0.0 16.4 49.4#





#81

trans-1,4-Dichloro-2-butene

Concen: 265.115 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD062400.D

Acq: 15 May 2019 20:49

Instrument :

MSVOA_D

ClientSampled :

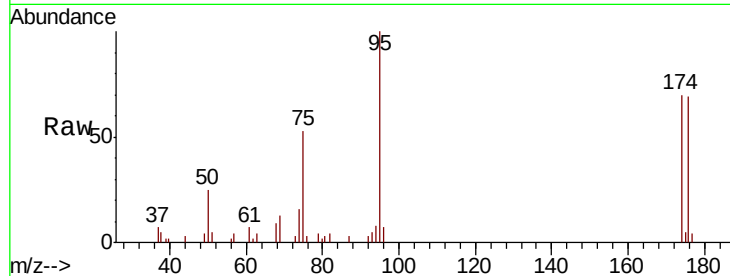
Tot Ion: 75 Resp: 11039

Ion Ratio Lower Upper

75 100

53 0.0 65.8 98.8#

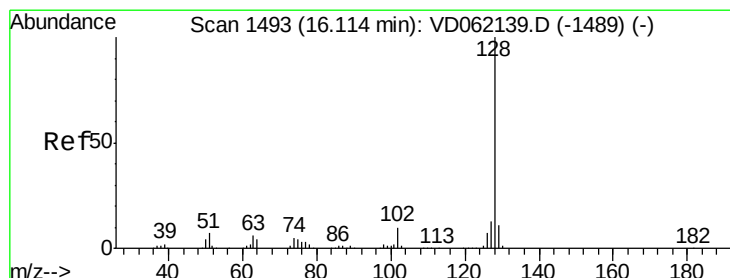
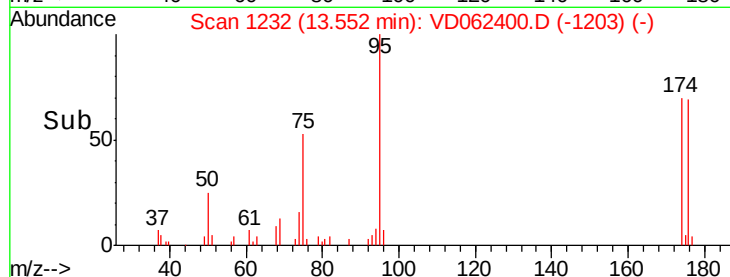
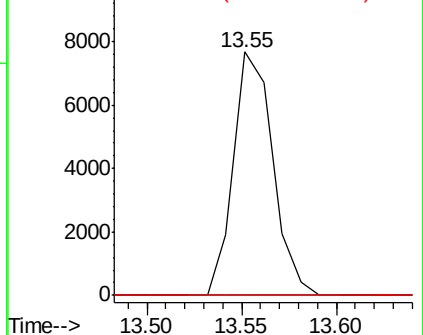
89 0.0 35.0 52.6#



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



#95

Naphthalene

Concen: 2.183 ug/l

RT: 16.13 min Scan# 1494

Delta R.T. 0.02 min

Lab File: VD062400.D

Acq: 15 May 2019 20:49

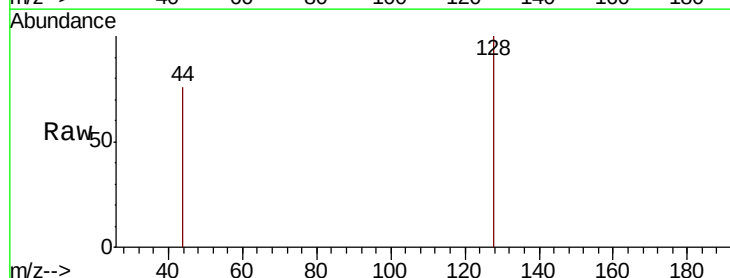
Tgt Ion: 128 Resp: 695

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

