

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN083018\
 Data File : VN050961.D
 Acq On : 30 Aug 2018 14:36
 Operator : MD\SY
 Sample : PB112481ZHE#05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112481ZHE#05

Quant Time: Aug 31 01:36:18 2018
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 22 05:38:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	548607	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	922968	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	781909	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	258905	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	369201	55.90	ug/l	0.00
Spiked Amount			Recovery	=	111.80%	
35) Dibromofluoromethane	7.59	113	351227	47.83	ug/l	0.00
Spiked Amount			Recovery	=	95.66%	
50) Toluene-d8	10.09	98	1233372	44.93	ug/l	0.00
Spiked Amount			Recovery	=	89.86%	
62) 4-Bromofluorobenzene	12.40	95	331806	36.37	ug/l	0.00
Spiked Amount			Recovery	=	72.74%	

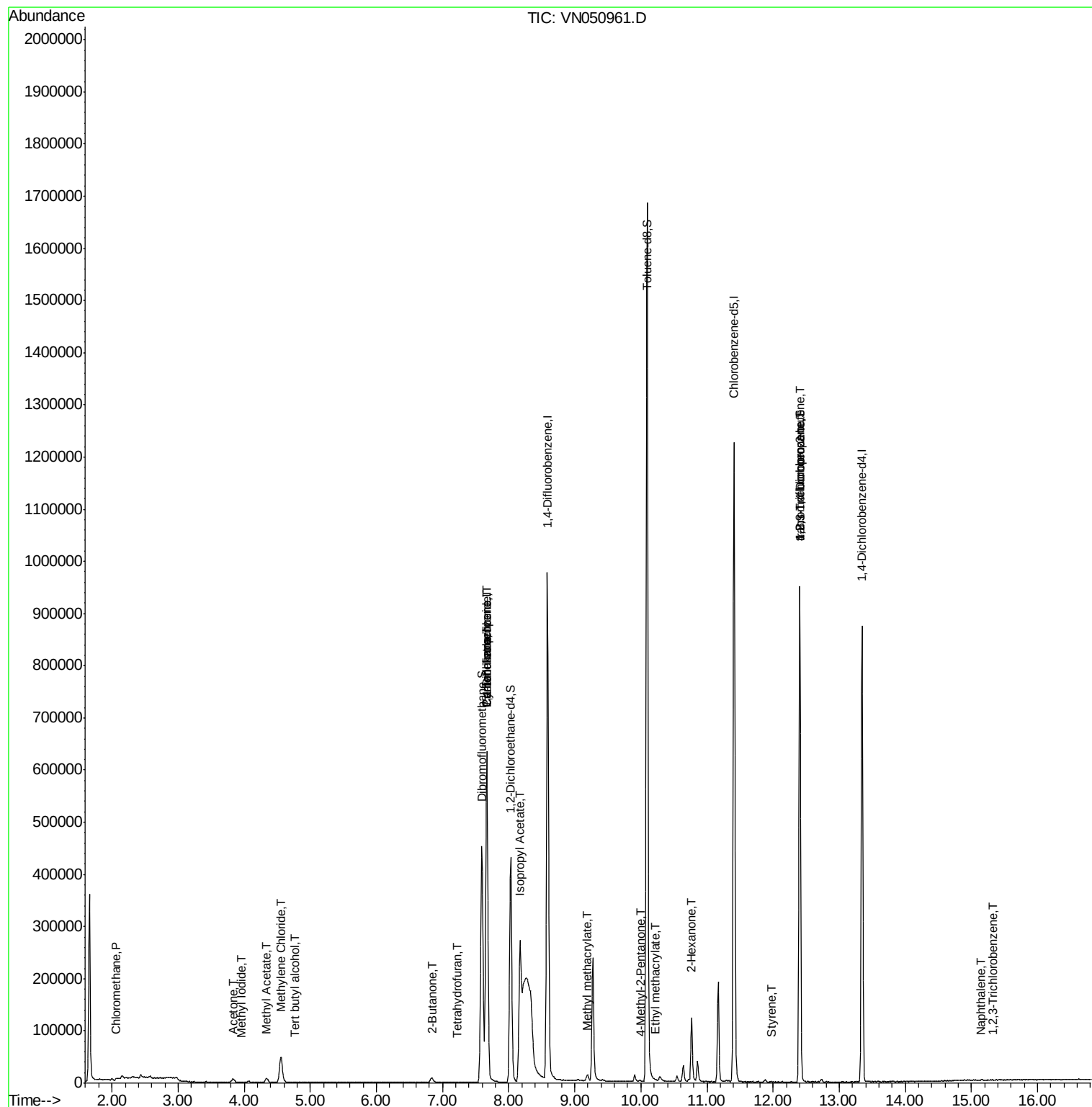
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2037	0.22	ug/l	95
5) Bromomethane	2.57	94	1926	Below Cal		91
10) Methyl Iodide	3.96	142	334	6.39	ug/l #	43
11) Tert butyl alcohol	4.77	59	169	0.40	ug/l #	72
16) Acetone	3.83	43	12216	0.77	ug/l #	85
18) Methyl Acetate	4.34	43	15730	2.52	ug/l	94
20) Methylene Chloride	4.55	84	38911	5.23	ug/l	98
25) 2-Butanone	6.83	43	754	0.28	ug/l #	47
29) Tetrahydrofuran	7.22	42	417	0.27	ug/l #	38
31) Cyclohexane	7.67	56	9125	1.27	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	36103	3.31	ug/l #	49
38) Carbon Tetrachloride	7.67	117	48367	4.39	ug/l #	17
43) Isopropyl Acetate	8.17	43	337699	31.39	ug/l #	89
48) Methyl methacrylate	9.19	41	8302	1.51	ug/l #	15
51) 4-Methyl-2-Pentanone	9.99	43	2039	0.32	ug/l #	62
56) Ethyl methacrylate	10.23	69	2354	2.59	ug/l #	82
59) 2-Hexanone	10.77	43	17539	4.10	ug/l #	57
70) Styrene	11.97	104	287	1.28	ug/l #	50
76) 1,2,3-Trichloropropane	12.40	75	154639	34.10	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	154639	115.28	ug/l #	15
95) Naphthalene	15.13	128	187	5.42	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.31	180	61	3.31	ug/l #	12

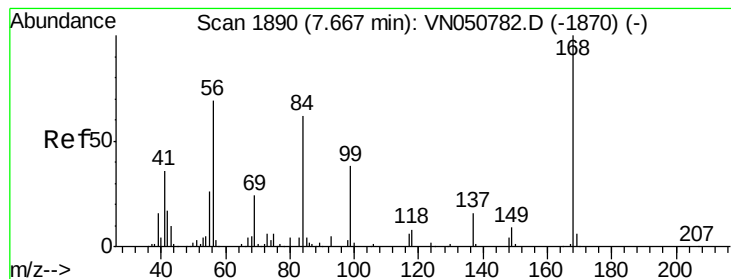
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Aug 22 05:38:12 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050961.D

Acq: 30 Aug 2018 14:36

Instrument :

MSVOA_N

ClientSampleId :

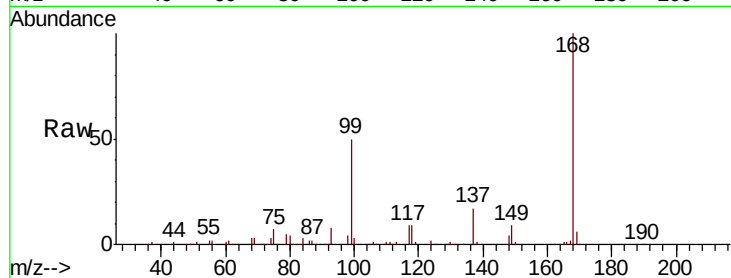
PB112481ZHE#05

Tot Ion:168 Resp: 548607

Ion Ratio Lower Upper

168 100

99 49.9 39.6 59.4



Abundance Ion 167.90 (167.60 to 168.60): VN050782.D (-1870) (-)

Ion 98.90 (98.60 to 99.60): VN050782.D (-1870) (-)

7.67

250000

200000

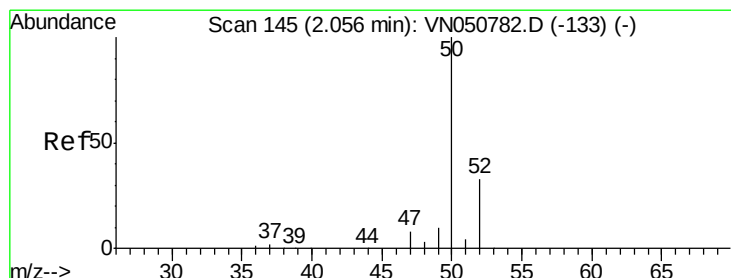
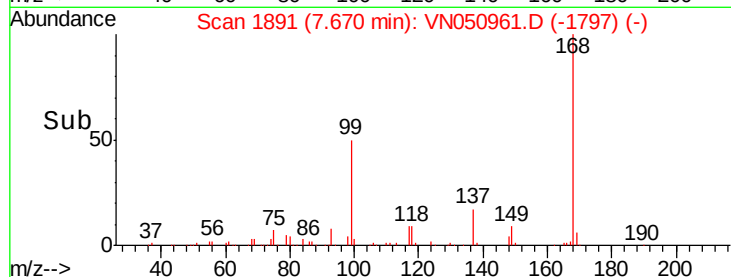
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.22 ug/l

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050961.D

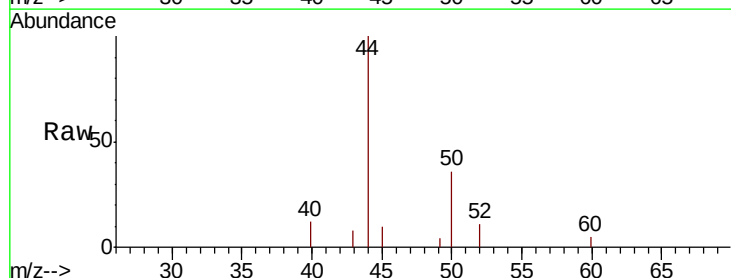
Acq: 30 Aug 2018 14:36

Tgt Ion: 50 Resp: 2037

Ion Ratio Lower Upper

50 100

52 30.0 26.3 39.5



Abundance Ion 49.90 (49.60 to 50.60): VN050782.D (-133) (-)

Ion 51.90 (51.60 to 52.60): VN050782.D (-133) (-)

2.06

2000

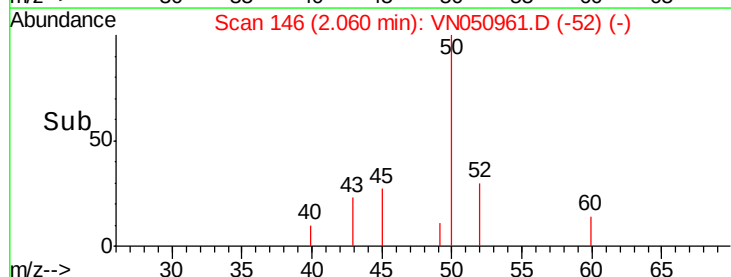
1500

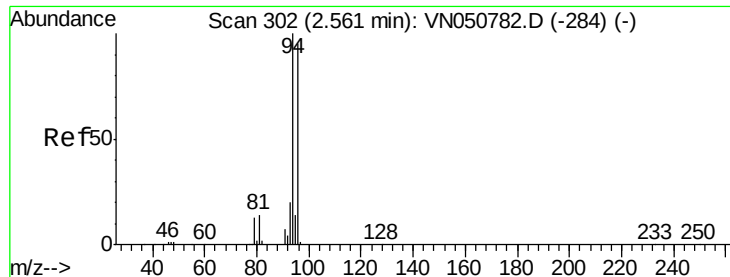
1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 306

Delta R.T. 0.01 min

Lab File: VN050961.D

Acq: 30 Aug 2018 14:36

Instrument :

MSVOA_N

ClientSampleId :

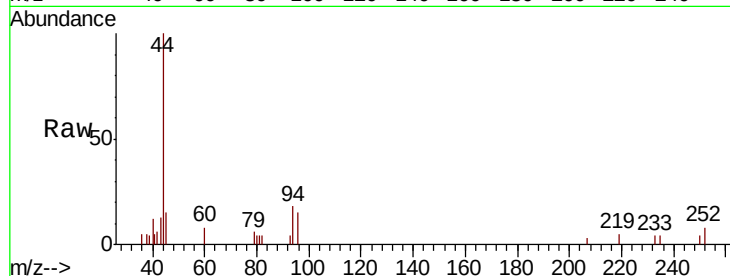
PB112481ZHE#05

Tot Ion: 94 Resp: 1926

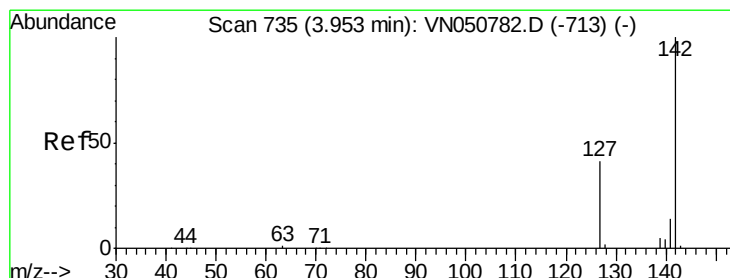
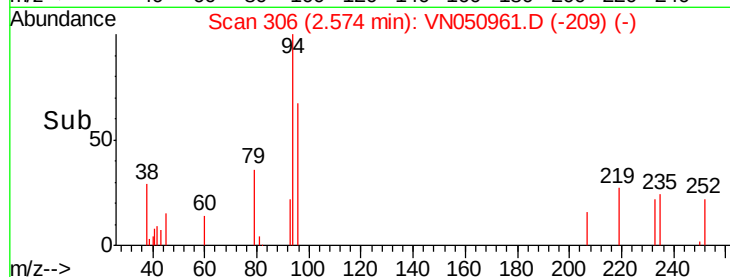
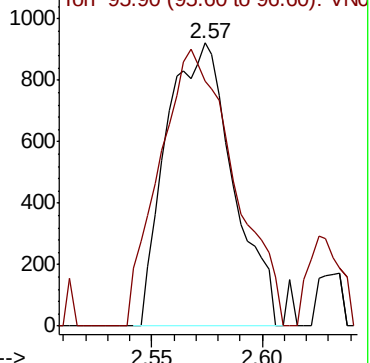
Ion Ratio Lower Upper

94 100

96 86.3 76.2 114.2



Abundance Ion 93.90 (93.60 to 94.60): VN050782.D (-284) (-)



#10

Methyl Iodide

Concen: 6.39 ug/l

RT: 3.96 min Scan# 737

Delta R.T. 0.01 min

Lab File: VN050961.D

Acq: 30 Aug 2018 14:36

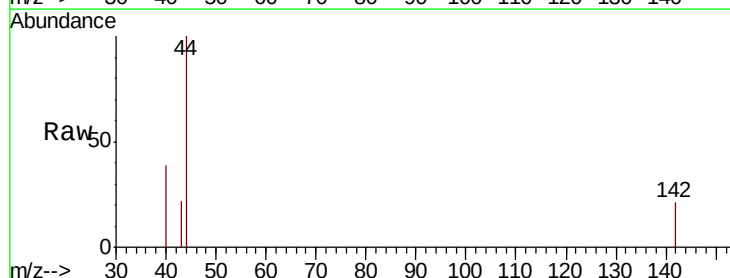
Tgt Ion: 142 Resp: 334

Ion Ratio Lower Upper

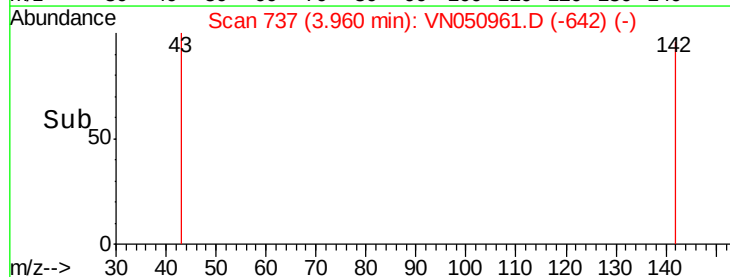
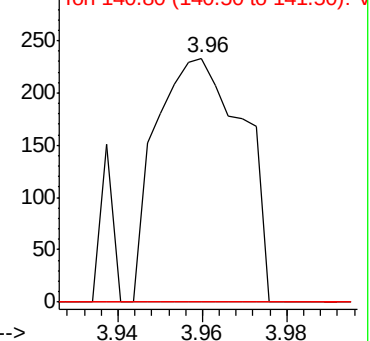
142 100

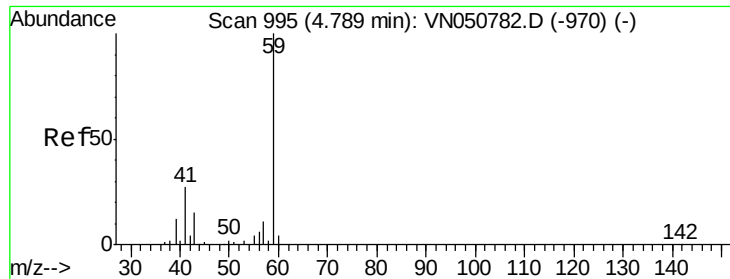
127 0.0 31.7 47.5#

141 0.0 11.4 17.0#



Abundance Ion 141.80 (141.50 to 142.50): VN050782.D (-713) (-)

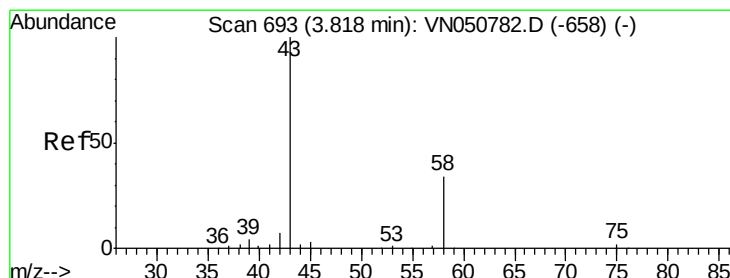
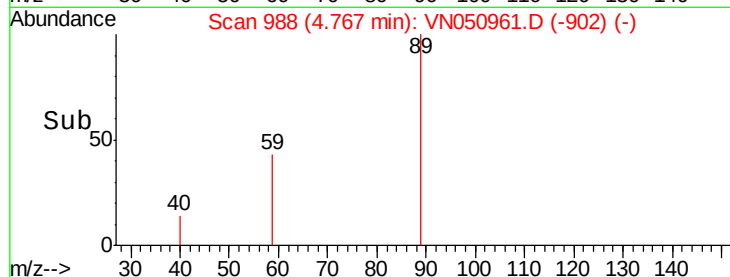
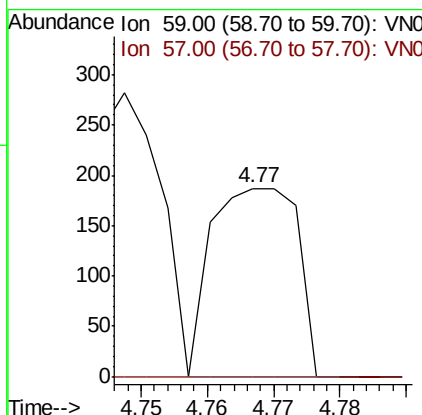
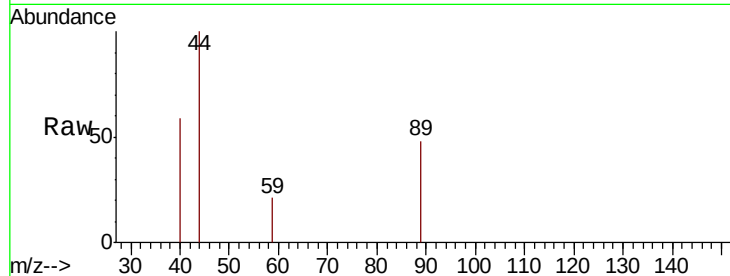




#11
Tert butyl alcohol
Concen: 0.40 ug/l
RT: 4.77 min Scan# 988
Delta R.T. -0.02 min
Lab File: VN050961.D
Acq: 30 Aug 2018 14:36

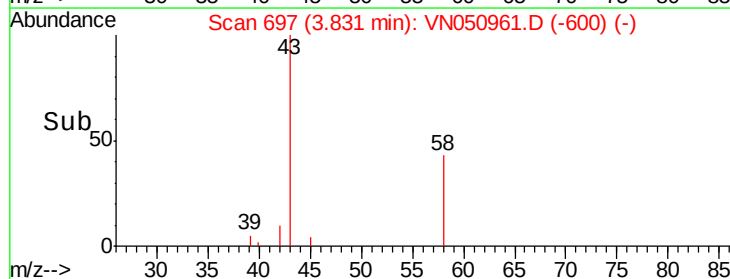
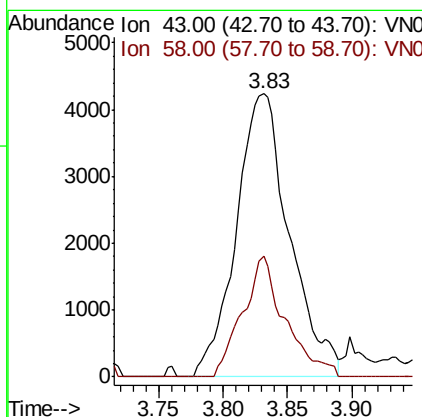
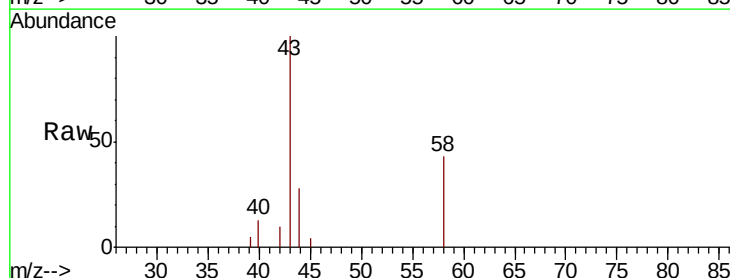
Instrument :
MSVOA_N
ClientSampleId :
PB112481ZHE#05

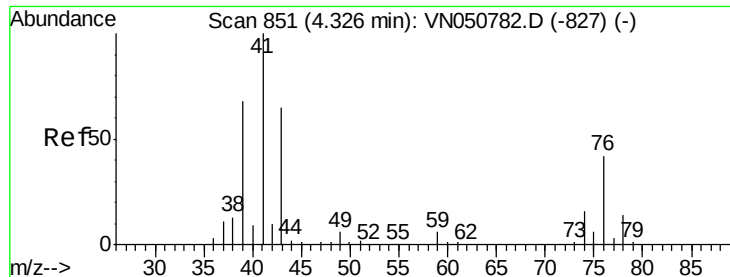
Tot Ion: 59 Resp: 169
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#16
Acetone
Concen: 0.77 ug/l
RT: 3.83 min Scan# 697
Delta R.T. 0.01 min
Lab File: VN050961.D
Acq: 30 Aug 2018 14:36

Tgt Ion: 43 Resp: 12216
Ion Ratio Lower Upper
43 100
58 42.6 27.2 40.8#

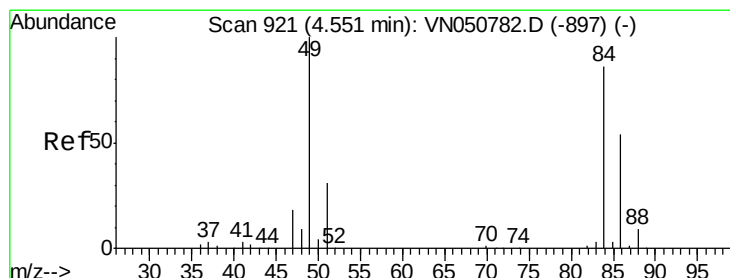
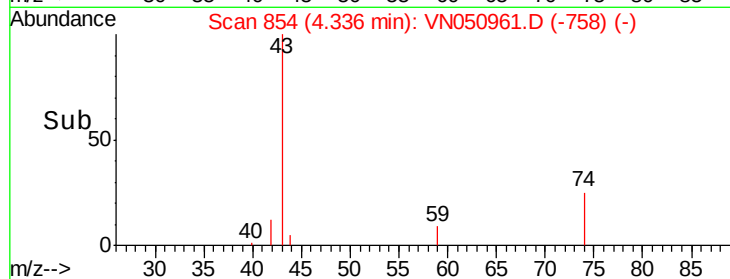
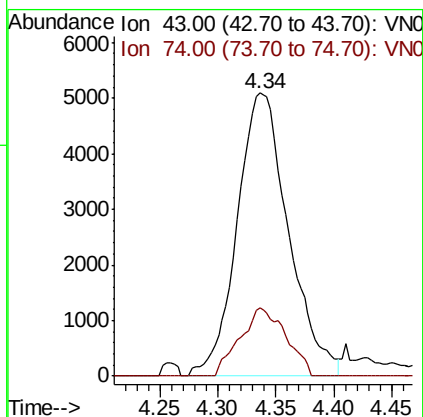
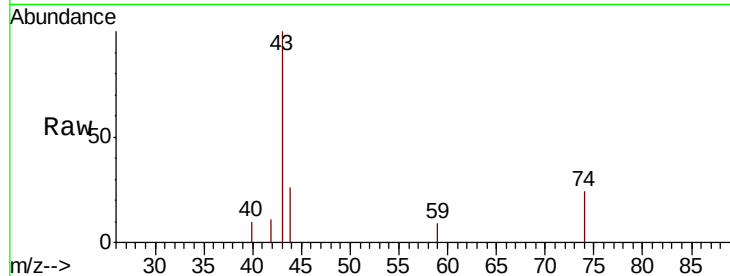




#18
Methyl Acetate
Concen: 2.52 ug/l
RT: 4.34 min Scan# 854
Delta R.T. 0.01 min
Lab File: VN050961.D
Acq: 30 Aug 2018 14:36

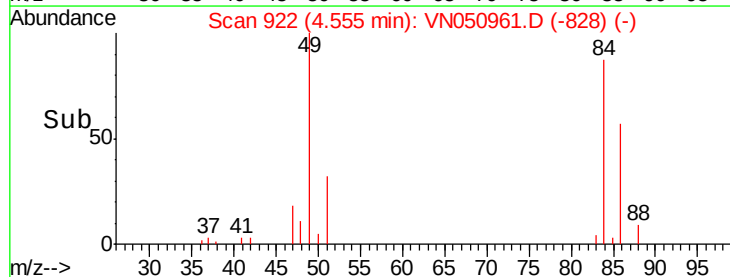
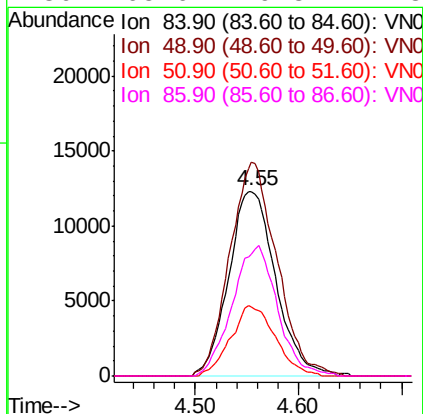
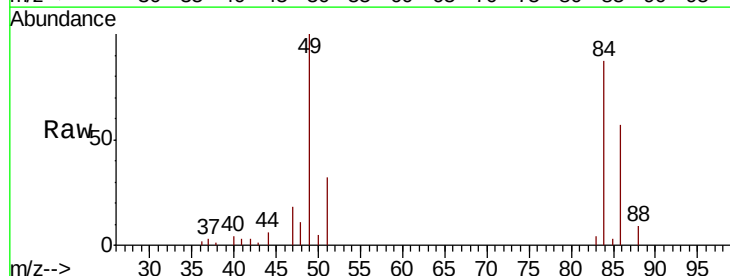
Instrument :
MSVOA_N
ClientSampleId :
PB112481ZHE#05

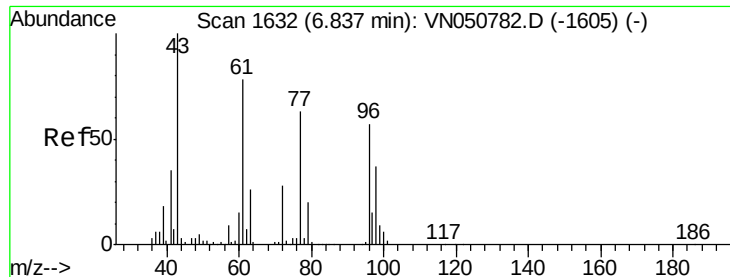
Tot Ion: 43 Resp: 15730
Ion Ratio Lower Upper
43 100
74 21.6 19.8 29.8



#20
Methylene Chloride
Concen: 5.23 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN050961.D
Acq: 30 Aug 2018 14:36

Tgt Ion: 84 Resp: 38911
Ion Ratio Lower Upper
84 100
49 115.5 93.2 139.8
51 37.4 29.0 43.6
86 65.6 49.8 74.8





#25

2-Butanone

Concen: 0.28 ug/l

RT: 6.83 min Scan# 1630

Delta R.T. -0.01 min

Lab File: VN050961.D

Acq: 30 Aug 2018 14:36

Instrument :

MSVOA_N

ClientSampleId :

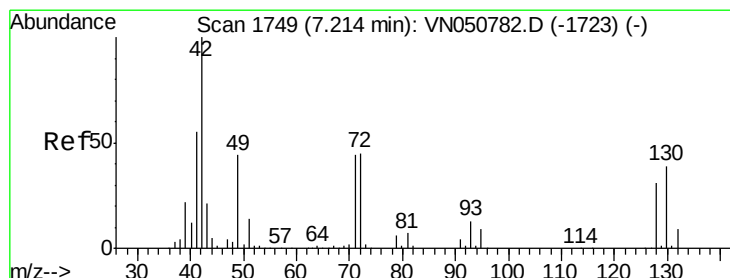
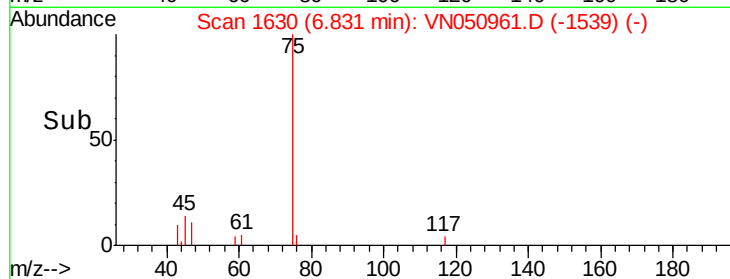
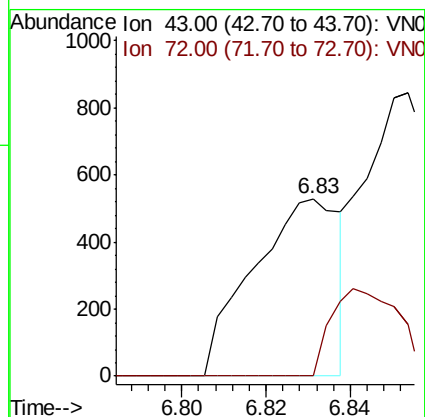
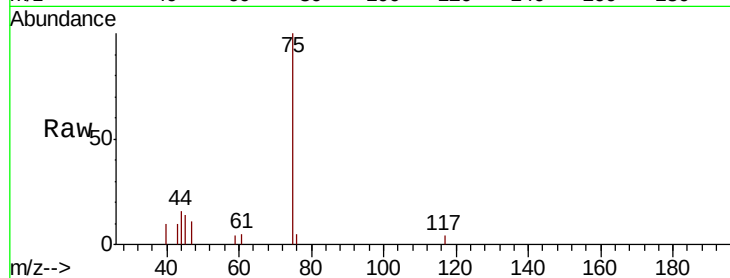
PB112481ZHE#05

Tot Ion: 43 Resp: 754

Ion Ratio Lower Upper

43 100

72 0.0 22.3 33.5#



#29

Tetrahydrofuran

Concen: 0.27 ug/l

RT: 7.22 min Scan# 1751

Delta R.T. 0.01 min

Lab File: VN050961.D

Acq: 30 Aug 2018 14:36

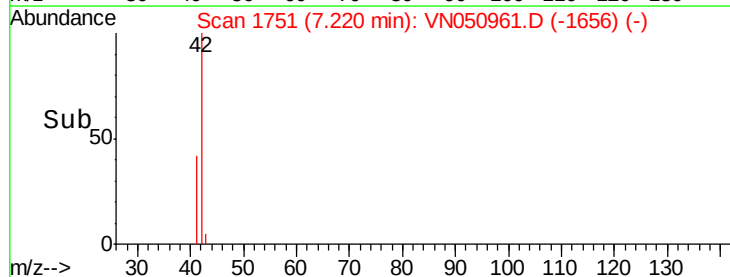
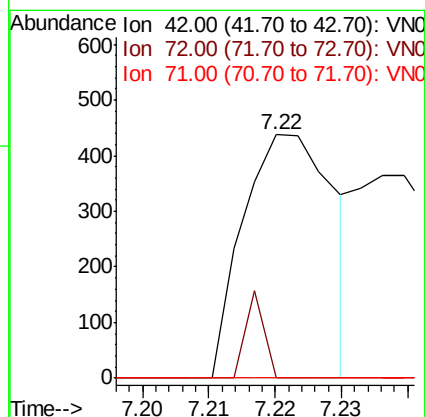
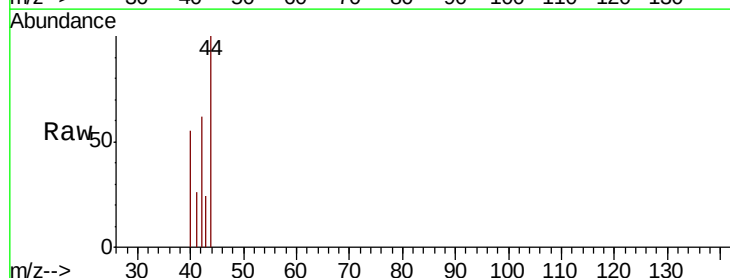
Tgt Ion: 42 Resp: 417

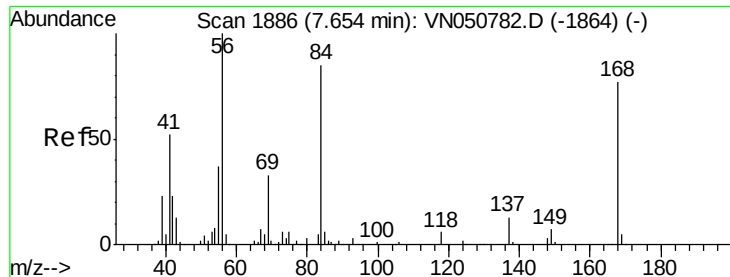
Ion Ratio Lower Upper

42 100

72 7.2 35.5 53.3#

71 0.0 33.7 50.5#

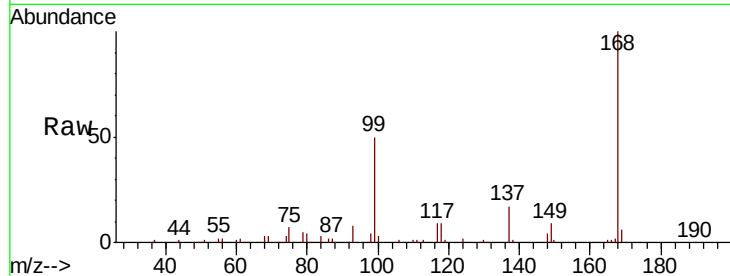




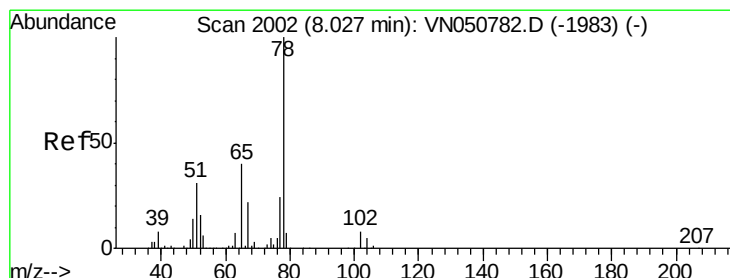
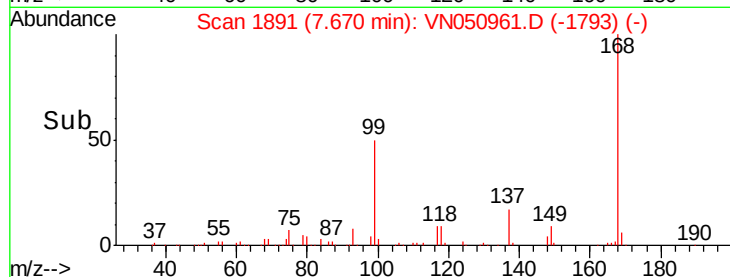
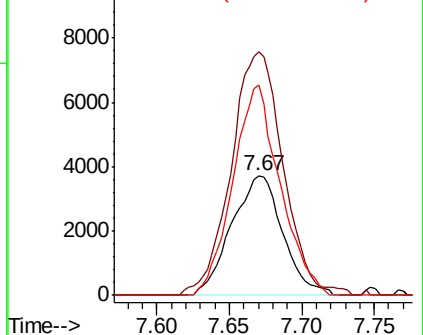
#31
Cyclohexane
Concen: 1.27 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. 0.02 min
Lab File: VN050961.D
Acq: 30 Aug 2018 14:36

Instrument :
MSVOA_N
ClientSampleId :
PB112481ZHE#05

Tot Ion: 56 Resp: 9125
Ion Ratio Lower Upper
56 100
69 198.0 26.2 39.4#
84 176.1 68.3 102.5#

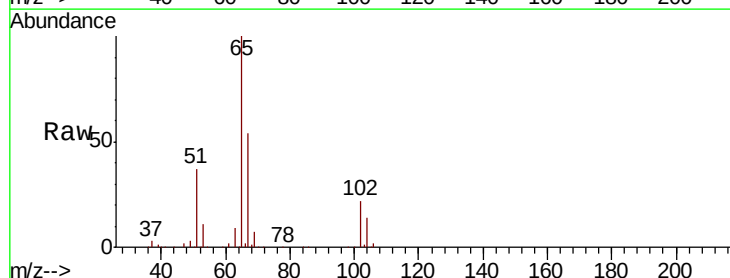


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

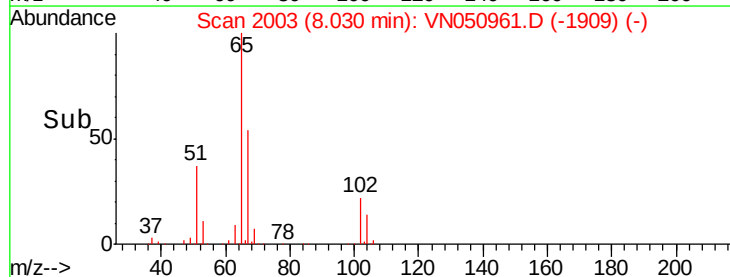
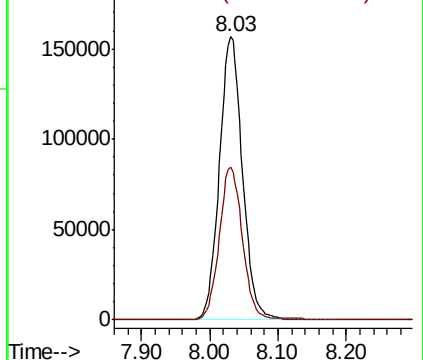


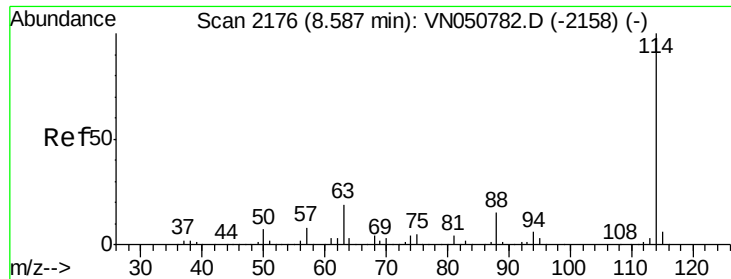
#33
1,2-Dichloroethane-d4
Concen: 55.90 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN050961.D
Acq: 30 Aug 2018 14:36

Tgt Ion: 65 Resp: 369201
Ion Ratio Lower Upper
65 100
67 53.8 0.0 110.4



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

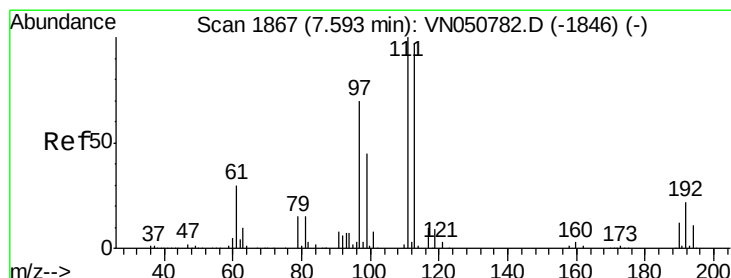
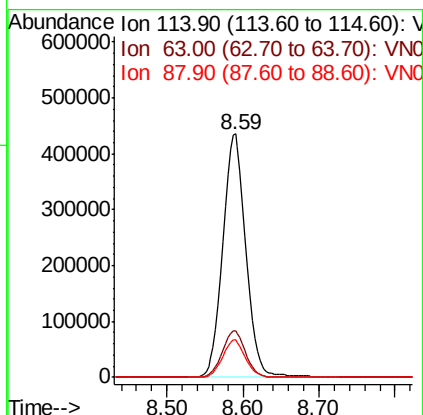
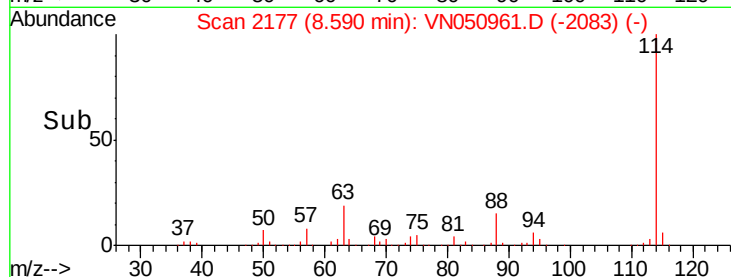
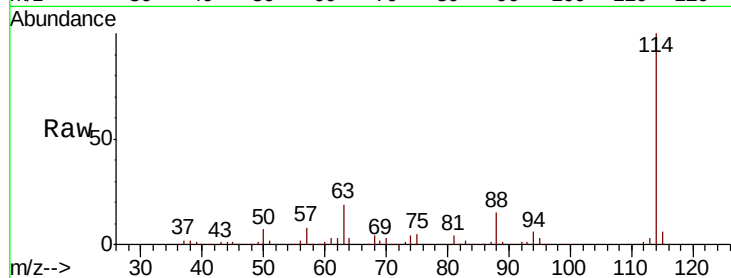




#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 8.59 min Scan# 2177
Delta R.T. 0.00 min
Lab File: VN050961.D
Acq: 30 Aug 2018 14:36

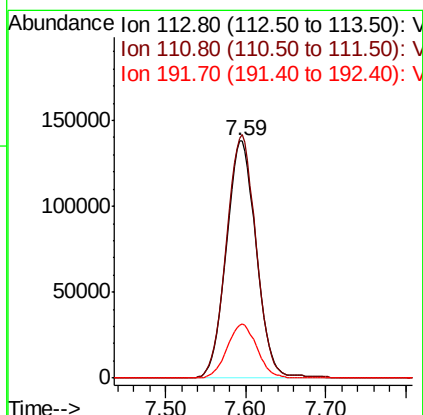
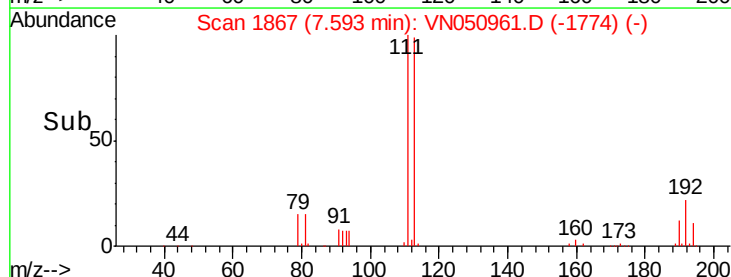
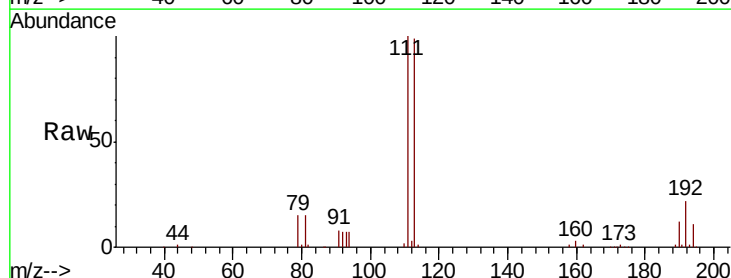
Instrument :
MSVOA_N
ClientSampleId :
PB112481ZHE#05

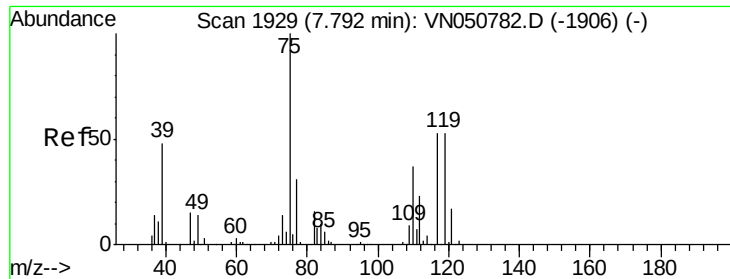
Tot Ion:	114	Resp:	922968
Ion	Ratio	Lower	Upper
114	100		
63	19.3	0.0	38.6
88	15.2	0.0	30.6



#35
Dibromofluoromethane
Concen: 47.83 ug/l
RT: 7.59 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN050961.D
Acq: 30 Aug 2018 14:36

Tgt Ion:	113	Resp:	351227
Ion	Ratio	Lower	Upper
113	100		
111	101.2	82.6	123.8
192	22.7	18.0	27.0

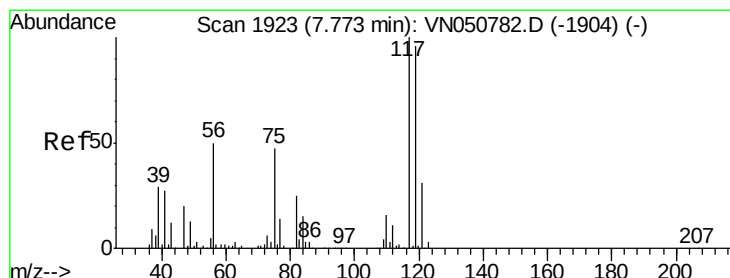
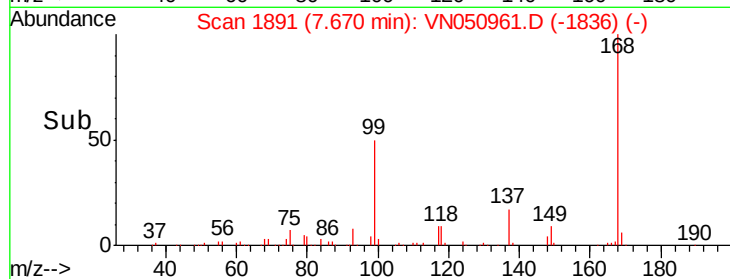
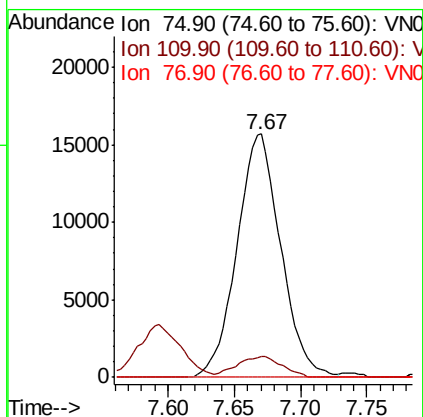
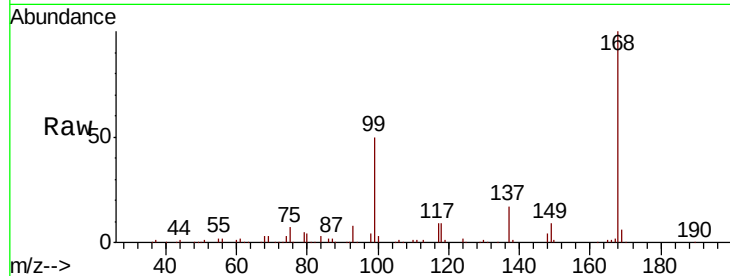




#36
 1,1-Dichloropropene
 Concen: 3.31 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.12 min
 Lab File: VN050961.D
 Acq: 30 Aug 2018 14:36

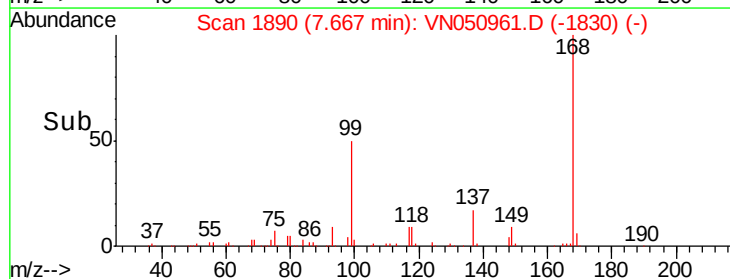
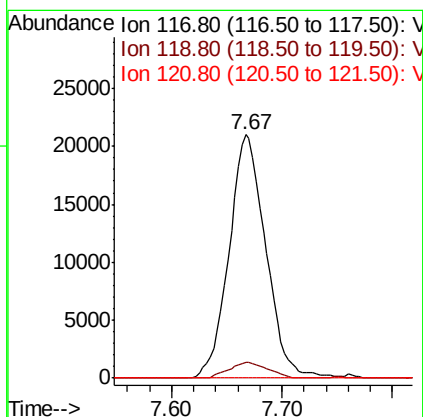
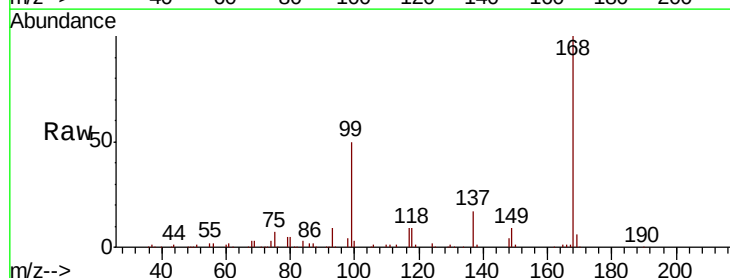
Instrument :
 MSVOA_N
 ClientSampleId :
 PB112481ZHE#05

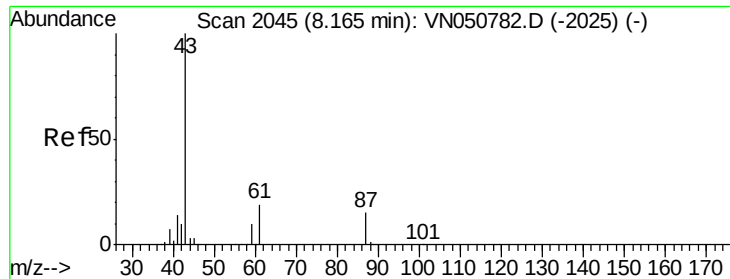
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.8	18.1	54.4#
77	0.0	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 4.39 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.11 min
 Lab File: VN050961.D
 Acq: 30 Aug 2018 14:36

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.4	76.3	114.5#
121	0.0	24.6	36.8#





#43

Isopropyl Acetate

Concen: 31.39 ug/l

RT: 8.17 min Scan# 2047

Delta R.T. 0.01 min

Lab File: VN050961.D

Acq: 30 Aug 2018 14:36

Instrument :

MSVOA_N

ClientSampleId :

PB112481ZHE#05

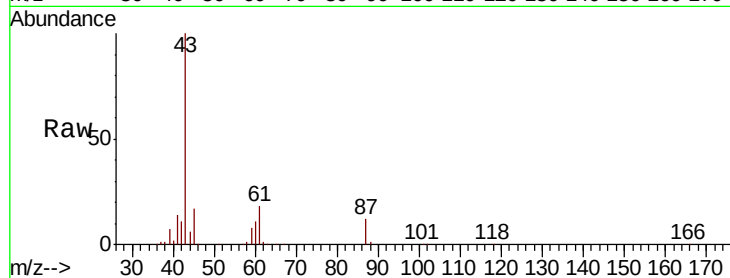
Tot Ion: 43 Resp: 337699

Ion Ratio Lower Upper

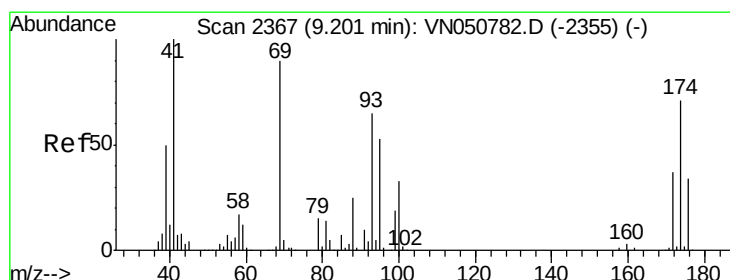
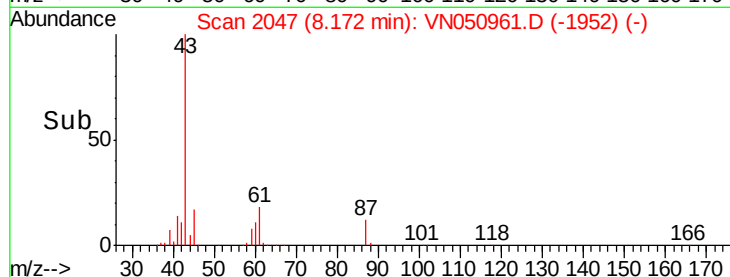
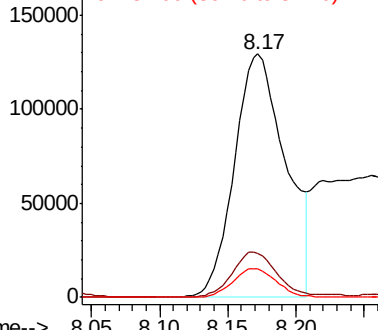
43 100

61 16.4 17.5 26.3#

87 10.2 11.3 16.9#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 61.00 (60.70 to 61.70): VNO
Ion 87.00 (86.70 to 87.70): VNO



#48

Methyl methacrylate

Concen: 1.51 ug/l

RT: 9.19 min Scan# 2363

Delta R.T. -0.01 min

Lab File: VN050961.D

Acq: 30 Aug 2018 14:36

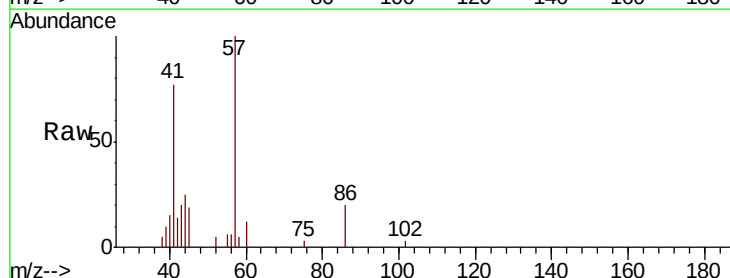
Tgt Ion: 41 Resp: 8302

Ion Ratio Lower Upper

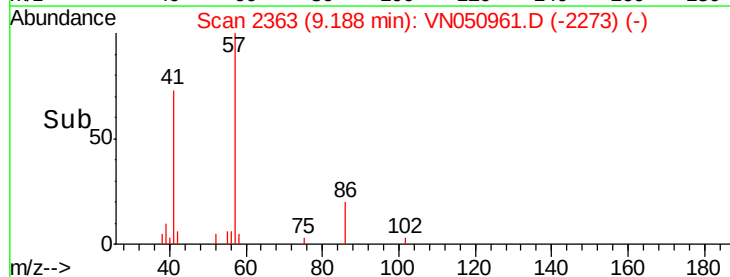
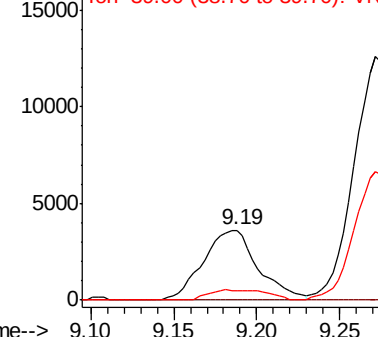
41 100

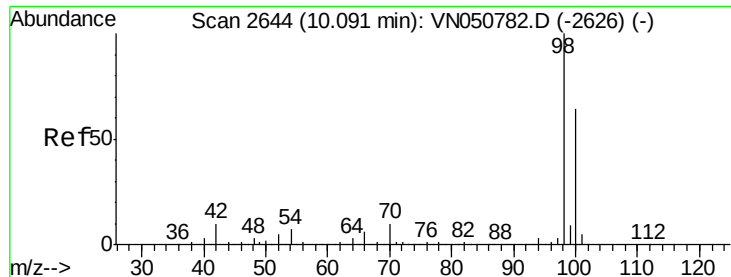
69 0.0 74.7 112.1#

39 7.5 42.2 63.2#



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 39.00 (38.70 to 39.70): VNO





#50

Toluene-d8

Concen: 44.93 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN050961.D

Acq: 30 Aug 2018 14:36

Instrument :

MSVOA_N

ClientSampleId :

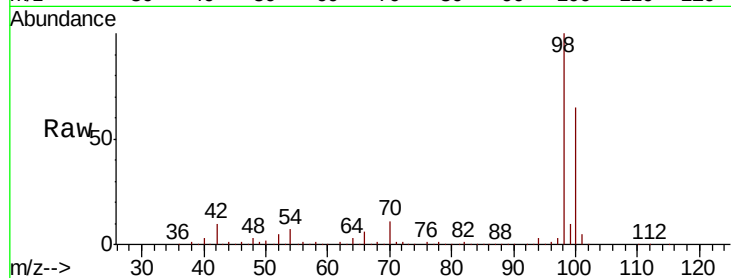
PB112481ZHE#05

Tot Ion: 98 Resp: 1233372

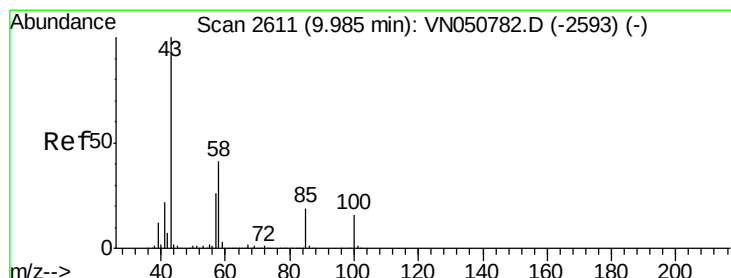
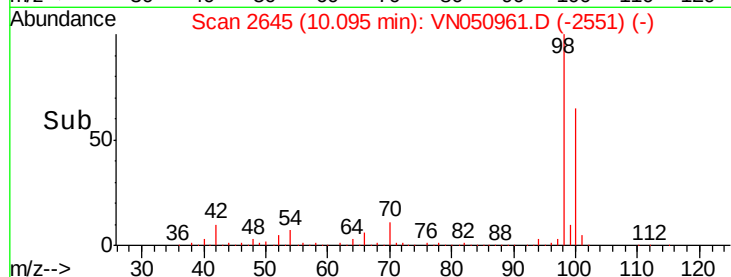
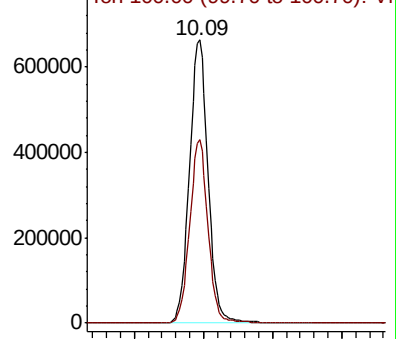
Ion Ratio Lower Upper

98 100

100 63.6 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VN050782.D (-2626) (-)



#51

4-Methyl-2-Pentanone

Concen: 0.32 ug/l

RT: 9.99 min Scan# 2612

Delta R.T. 0.00 min

Lab File: VN050961.D

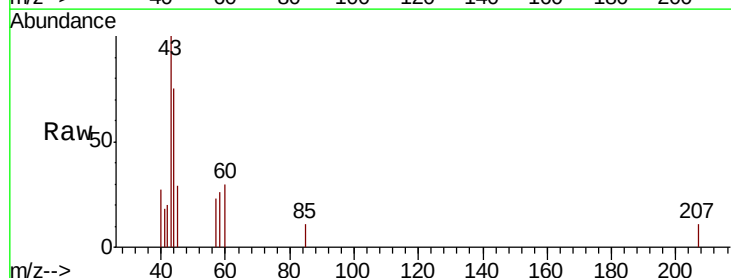
Acq: 30 Aug 2018 14:36

Tgt Ion: 43 Resp: 2039

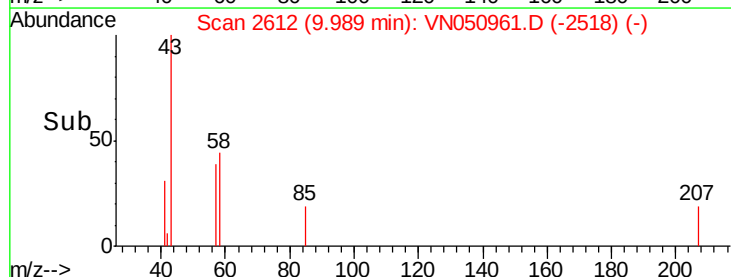
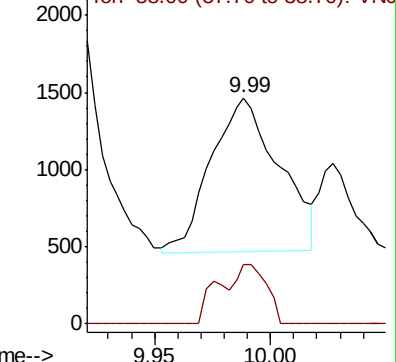
Ion Ratio Lower Upper

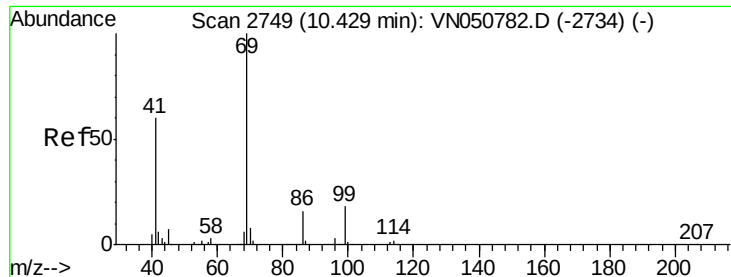
43 100

58 17.1 32.4 48.6#



Abundance Ion 43.00 (42.70 to 43.70): VN050782.D (-2593) (-)





#56

Ethyl methacrylate

Concen: 2.59 ug/l

RT: 10.23 min Scan# 2686

Delta R.T. -0.20 min

Lab File: VN050961.D

Acq: 30 Aug 2018 14:36

Instrument :

MSVOA_N

ClientSampleId :

PB112481ZHE#05

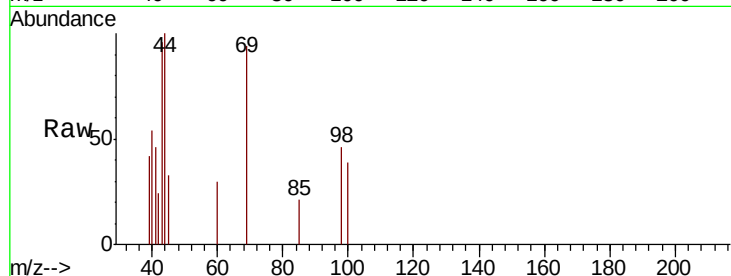
Tot Ion: 69 Resp: 2354

Ion Ratio Lower Upper

69 100

41 42.0 48.3 72.5#

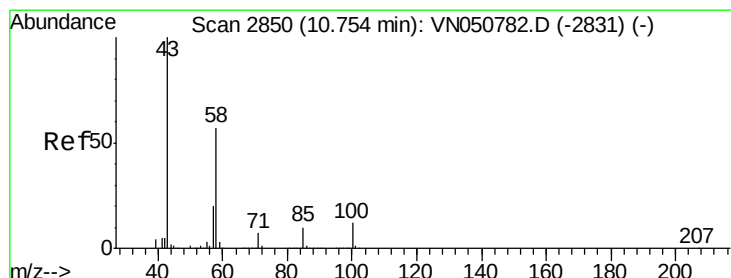
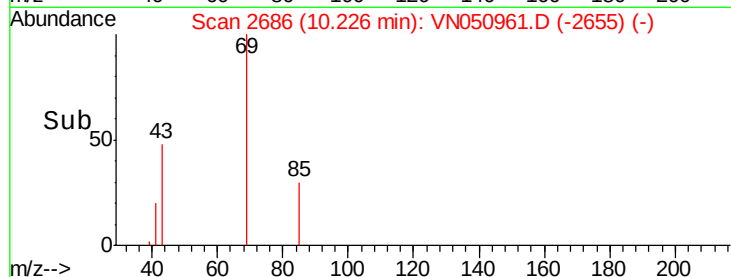
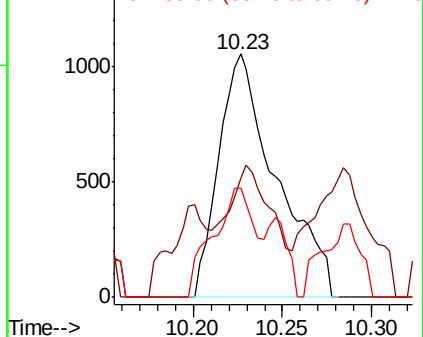
39 33.2 24.0 36.0



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#59

2-Hexanone

Concen: 4.10 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050961.D

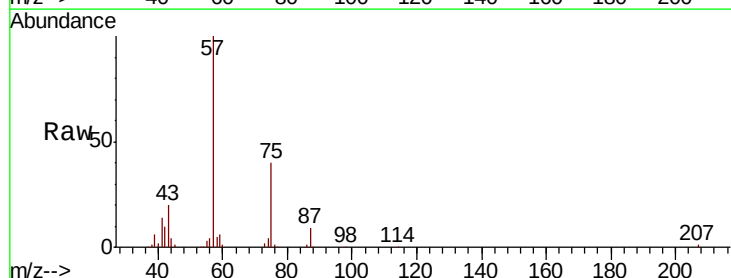
Acq: 30 Aug 2018 14:36

Tgt Ion: 43 Resp: 17539

Ion Ratio Lower Upper

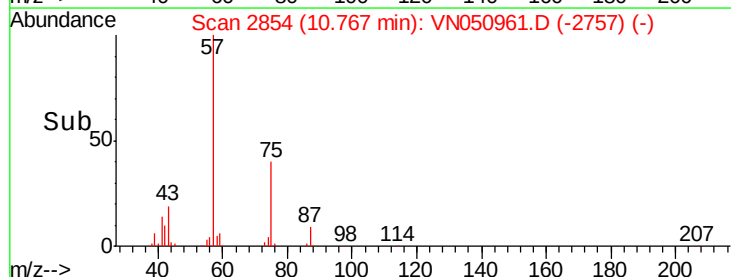
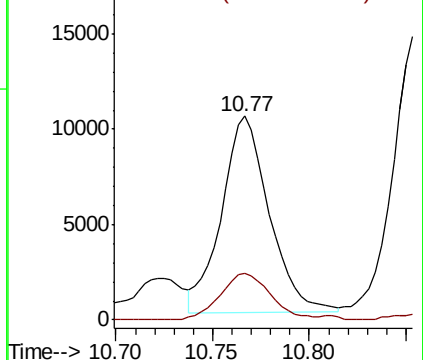
43 100

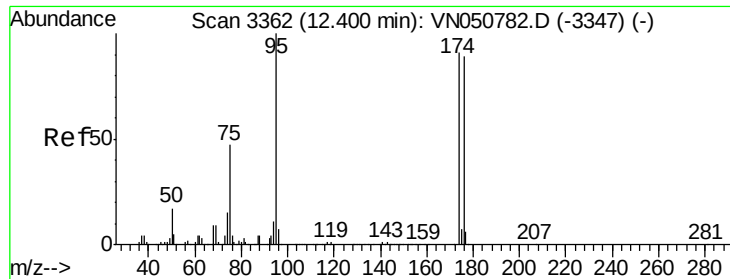
58 25.4 28.3 85.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

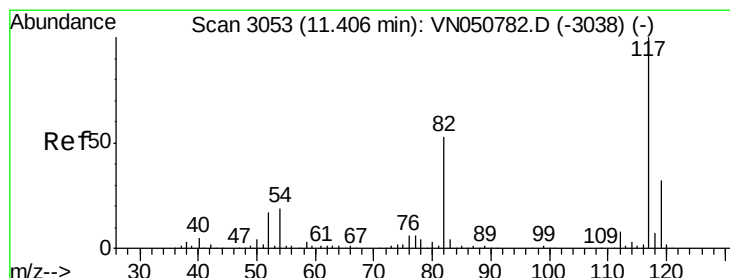
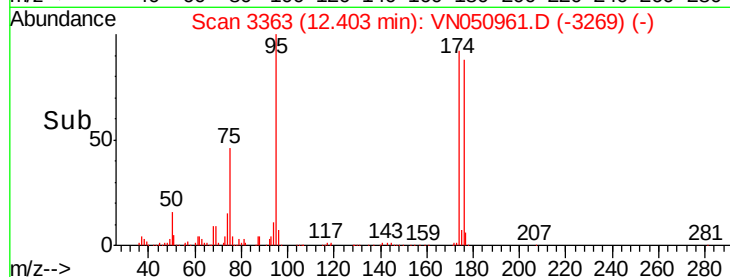
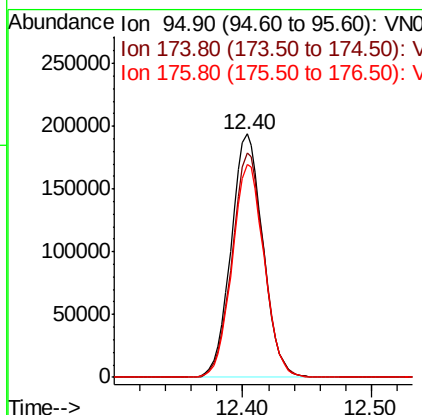
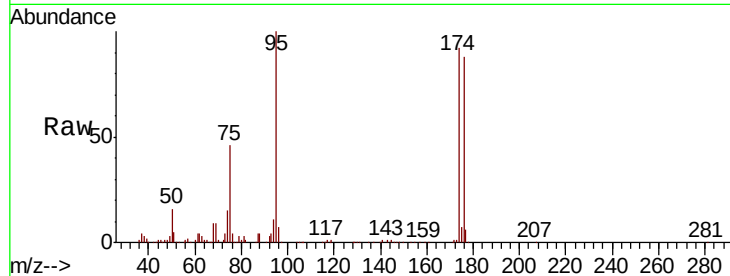




#62
4-Bromofluorobenzene
Concen: 36.37 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN050961.D
Acq: 30 Aug 2018 14:36

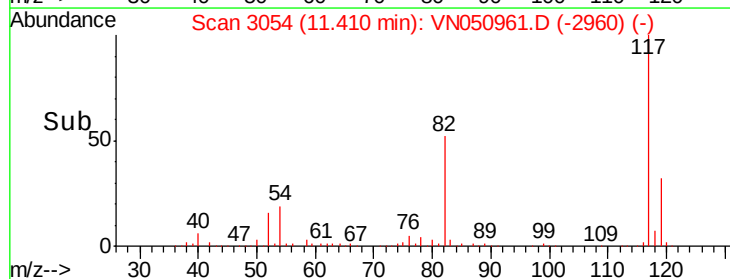
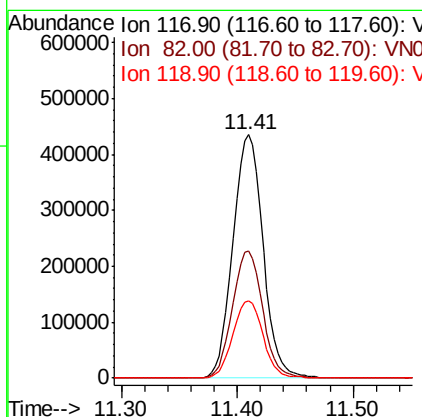
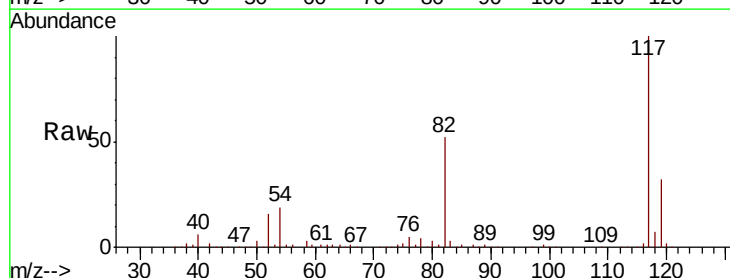
Instrument :
MSVOA_N
ClientSampleId :
PB112481ZHE#05

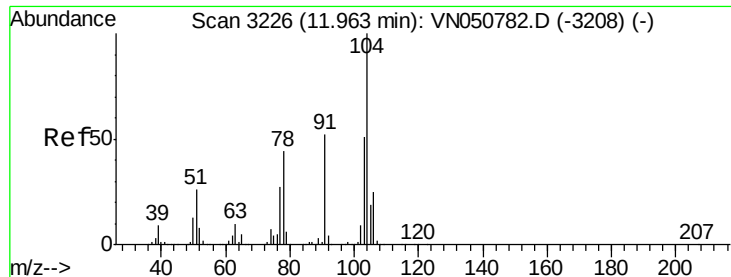
Tot Ion: 95 Resp: 331806
Ion Ratio Lower Upper
95 100
174 92.6 0.0 183.0
176 87.9 0.0 178.8



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050961.D
Acq: 30 Aug 2018 14:36

Tgt Ion: 117 Resp: 781909
Ion Ratio Lower Upper
117 100
82 52.1 42.6 64.0
119 31.9 25.8 38.6

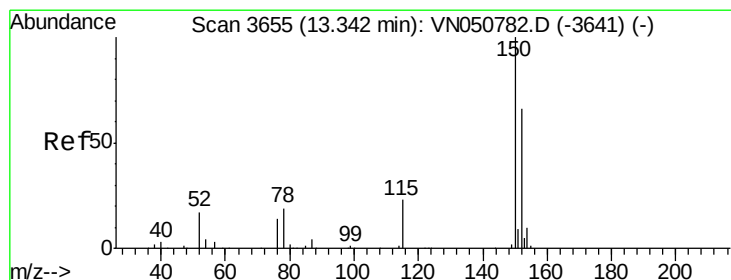
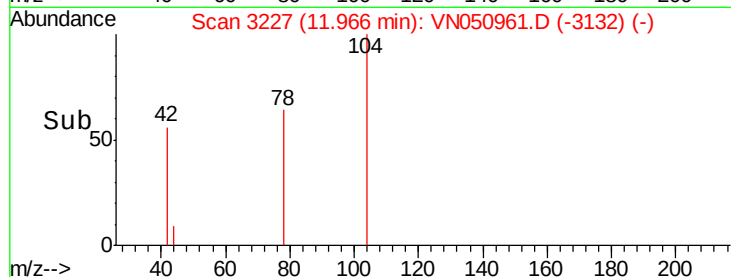
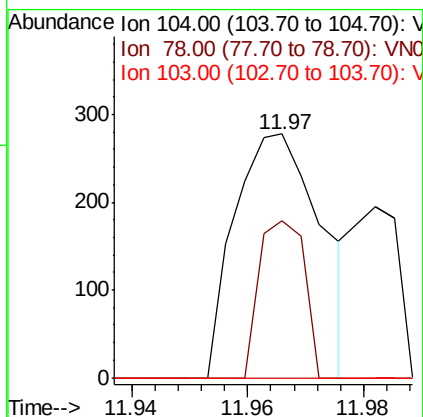
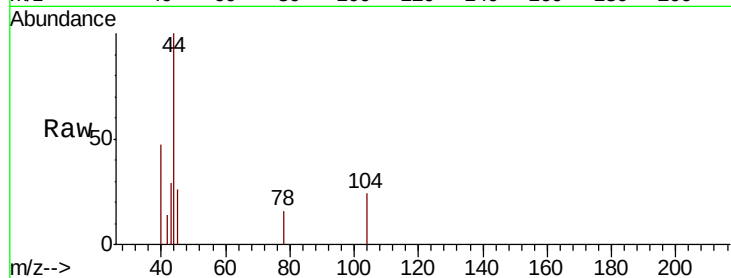




#70
Stvrene
Concen: 1.28 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VN050961.D
Acq: 30 Aug 2018 14:36

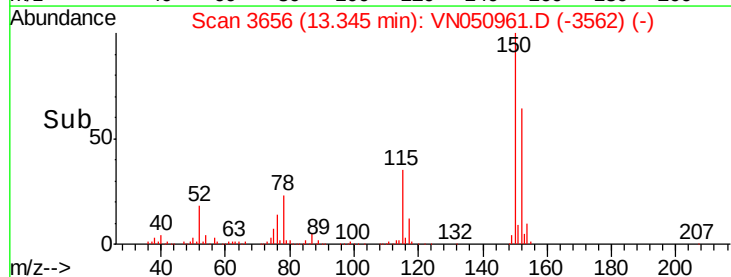
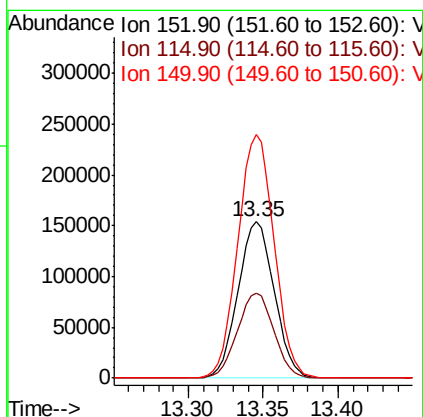
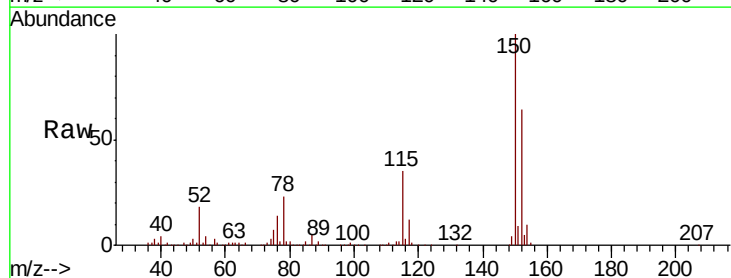
Instrument :
MSVOA_N
ClientSampleId :
PB112481ZHE#05

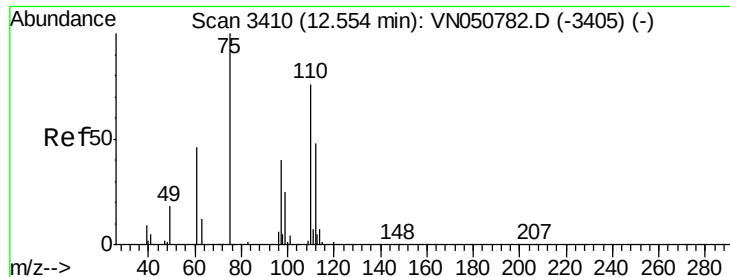
Tot Ion:104 Resp: 287
Ion Ratio Lower Upper
104 100
78 34.1 38.2 57.4#
103 0.0 44.4 66.6#



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3656
Delta R.T. 0.00 min
Lab File: VN050961.D
Acq: 30 Aug 2018 14:36

Tgt Ion:152 Resp: 258905
Ion Ratio Lower Upper
152 100
115 54.7 27.8 83.4
150 156.4 0.0 351.4





#76

1,2,3-Trichloropropane

Concen: 34.10 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050961.D

Acq: 30 Aug 2018 14:36

Instrument :

MSVOA_N

ClientSampleId :

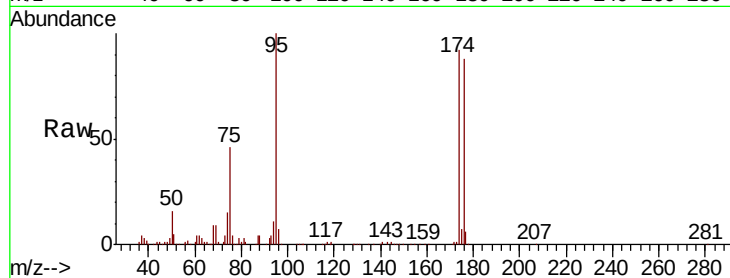
PB112481ZHE#05

Tot Ion: 75 Resp: 154639

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.40

80000

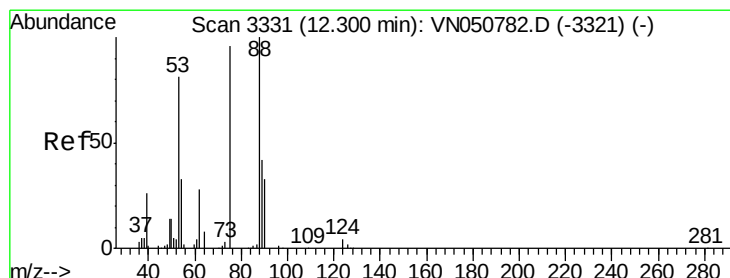
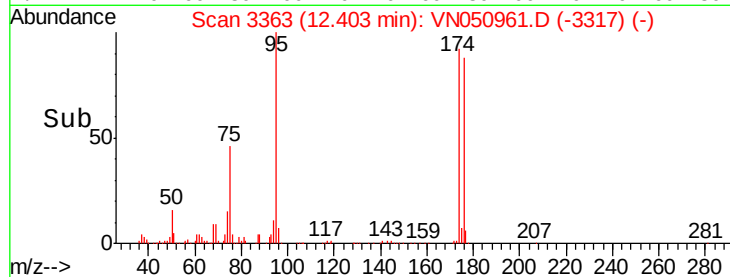
60000

40000

20000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 115.28 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050961.D

Acq: 30 Aug 2018 14:36

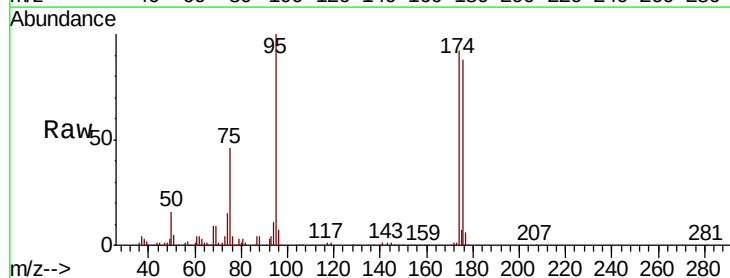
Tgt Ion: 75 Resp: 154639

Ion Ratio Lower Upper

75 100

53 0.1 68.9 103.3#

89 0.0 36.1 54.1#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

120000

100000

80000

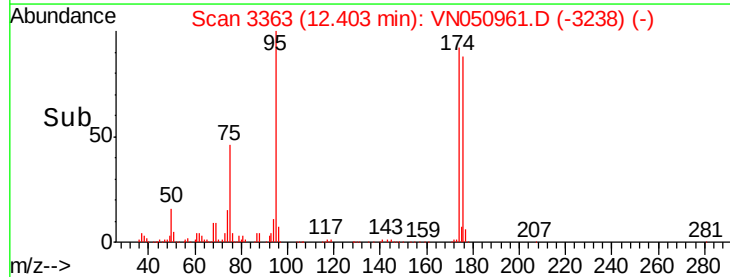
60000

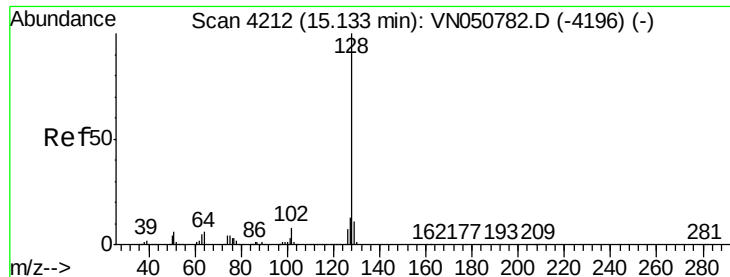
40000

20000

0

Time-->

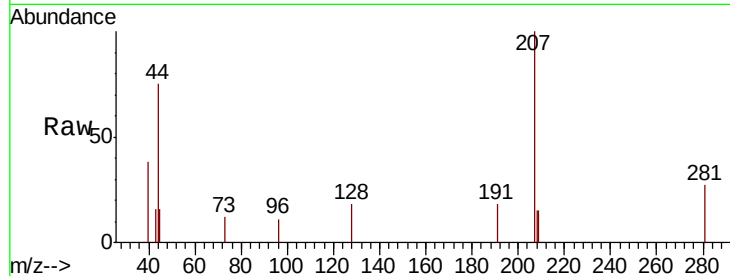




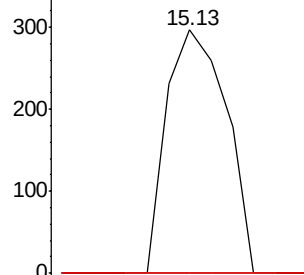
#95
Naphthalene
Concen: 5.42 ug/l
RT: 15.13 min Scan# 4210
Delta R.T. -0.01 min
Lab File: VN050961.D
Acq: 30 Aug 2018 14:36

Instrument :
MSVOA_N
ClientSampleId :
PB112481ZHE#05

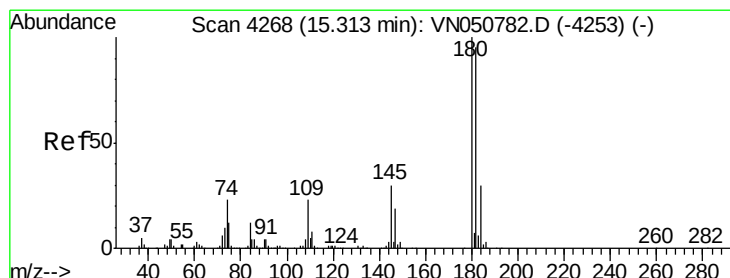
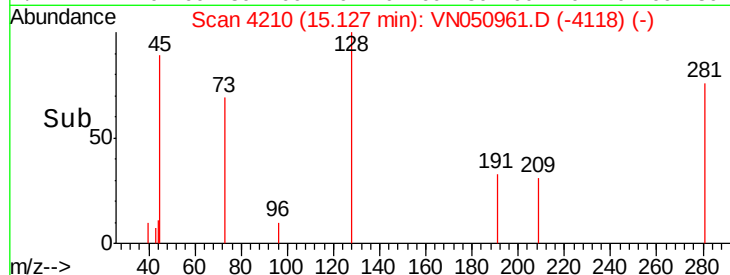
Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.5	15.7#
129	0.0	8.7	13.1#



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

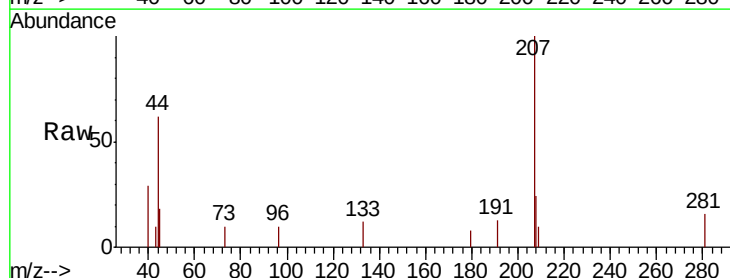


Time-->

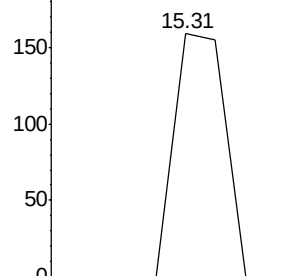


#96
1,2,3-Trichlorobenzene
Concen: 3.31 ug/l
RT: 15.31 min Scan# 4268
Delta R.T. 0.00 min
Lab File: VN050961.D
Acq: 30 Aug 2018 14:36

Tgt Ion	Ratio	Lower	Upper
180	100		
182	0.0	48.0	144.2#
145	0.0	15.2	45.6#



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.90 (144.60 to 145.60): V



Time-->

