

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN052319\
 Data File : VN055754.D
 Acq On : 23 May 2019 15:31
 Operator : JC/SP
 Sample : VN0523MBL01
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0523MBL01

Quant Time: May 24 06:48:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052319W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 24 06:41:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	415104	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	584150	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	508544	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	181773	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	190003	44.32	ug/l	0.00
Spiked Amount			Recovery	=	88.64%	
35) Dibromofluoromethane	7.59	113	180504	48.87	ug/l	0.00
Spiked Amount			Recovery	=	97.74%	
50) Toluene-d8	10.09	98	688935	48.63	ug/l	0.00
Spiked Amount			Recovery	=	97.26%	
62) 4-Bromofluorobenzene	12.40	95	213044	43.86	ug/l	0.00
Spiked Amount			Recovery	=	87.72%	

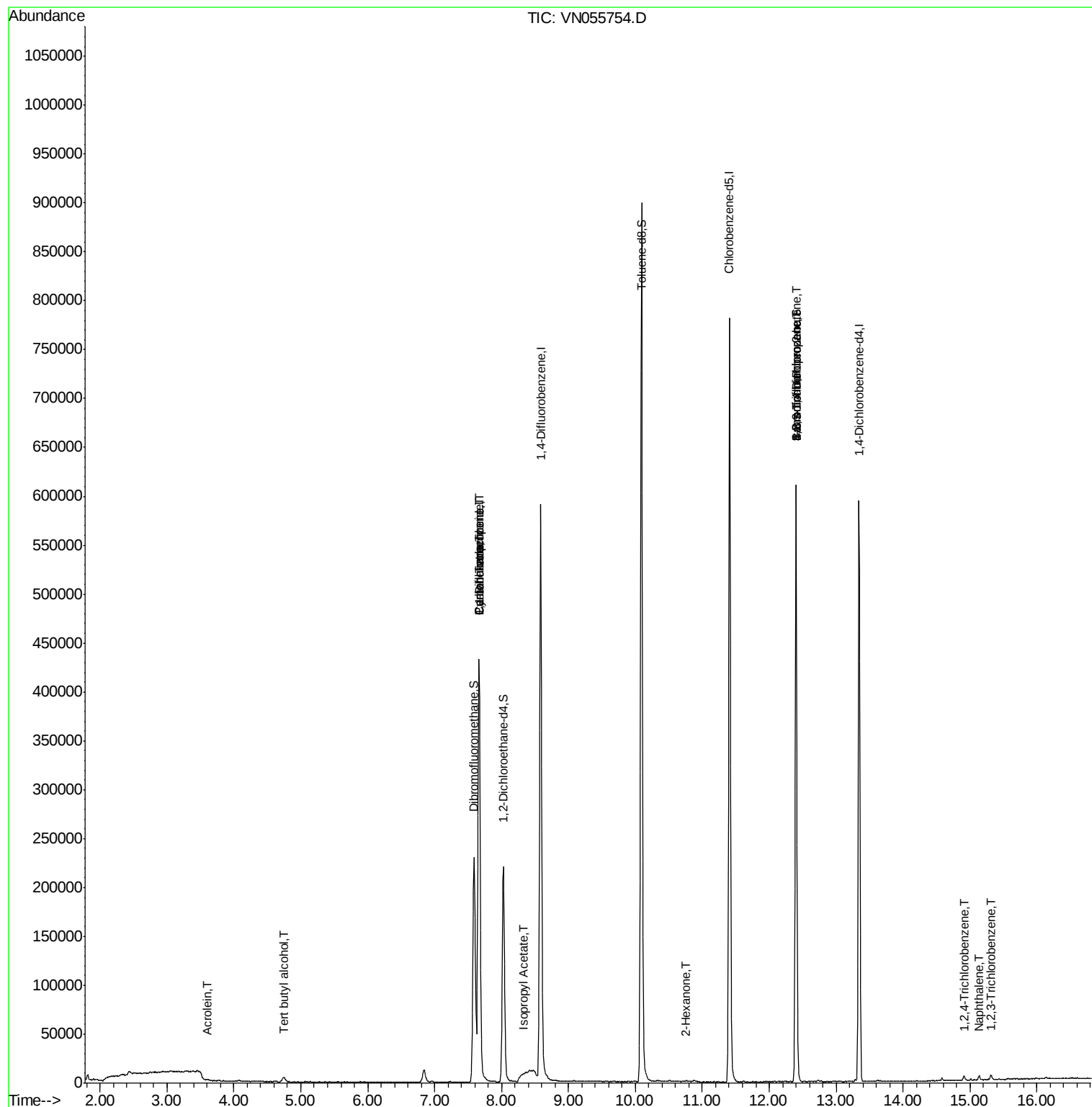
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	4324	5.279	ug/l #	74
13) Acrolein	3.61	56	513	0.875	ug/l	97
18) Methyl Acetate	4.33	43	936	Below Cal	#	58
31) Cyclohexane	7.66	56	6027	0.937	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	24514	4.816	ug/l #	43
38) Carbon Tetrachloride	7.66	117	34356	6.479	ug/l #	15
43) Isopropyl Acetate	8.32	43	10375	1.255	ug/l #	53
59) 2-Hexanone	10.76	43	1041	0.301	ug/l #	60
71) Bromoform	12.40	173	1638	0.473	ug/l #	1
73) Isopropylbenzene	12.25	105	578	Below Cal	#	48
74) N-amyl acetate	12.07	43	97	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	97696	29.951	ug/l #	100
79) 2-Chlorotoluene	12.67	91	620	Below Cal	#	39
80) 1,3,5-Trimethylbenzene	12.74	105	732	Below Cal		82
81) trans-1,4-Dichloro-2-buten	12.40	75	97696	72.314	ug/l #	15
83) tert-Butylbenzene	13.00	119	480	Below Cal	#	77
84) 1,2,4-Trimethylbenzene	13.04	105	668	Below Cal		99
85) sec-Butylbenzene	13.17	105	1020	Below Cal	#	55
93) 1,2,4-Trichlorobenzene	14.91	180	1970	4.155	ug/l	96
94) Hexachlorobutadiene	15.01	225	295	Below Cal		85
95) Naphthalene	15.14	128	4935	0.587	ug/l #	91
96) 1,2,3-Trichlorobenzene	15.31	180	2300	0.710	ug/l	97

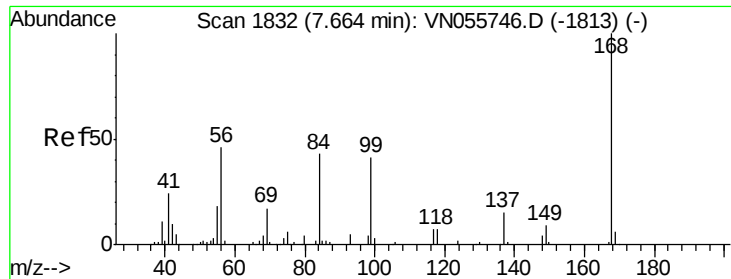
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri May 24 06:41:54 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN055754.D

Acq: 23 May 2019 15:31

Instrument :

MSVOA_N

ClientSampleId :

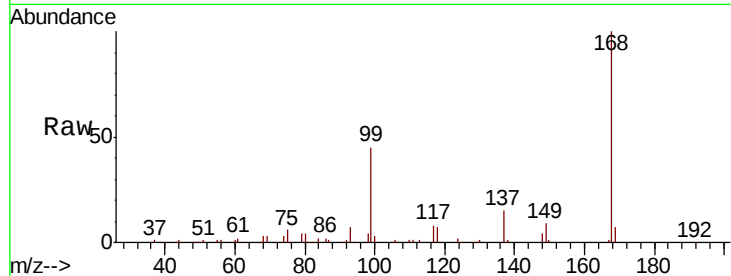
VN0523MBL01

Tot Ion:168 Resp: 415104

Ion Ratio Lower Upper

168 100

99 45.5 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): VN055746.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN055746.D (-1813) (-)

7.66

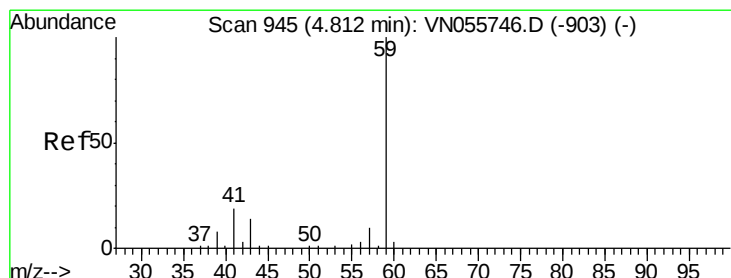
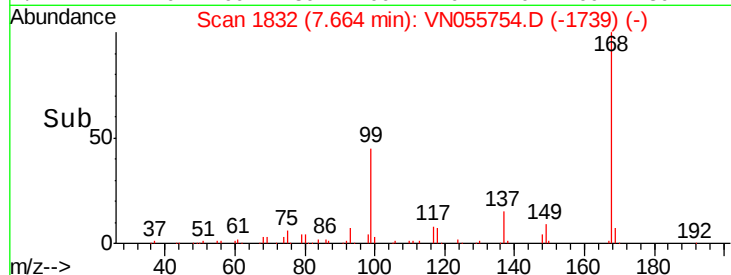
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 5.279 ug/l

RT: 4.74 min Scan# 924

Delta R.T. -0.07 min

Lab File: VN055754.D

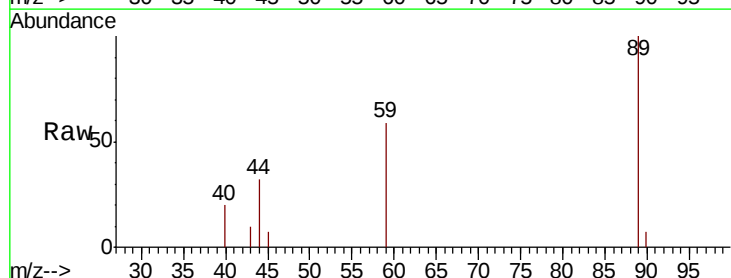
Acq: 23 May 2019 15:31

Tgt Ion: 59 Resp: 4324

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN055746.D (-903) (-)

Ion 57.00 (56.70 to 57.70): VN055746.D (-903) (-)

4.74

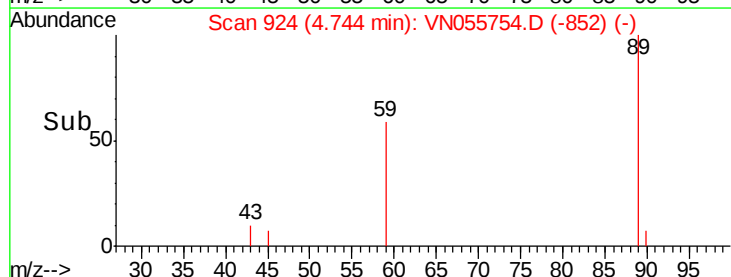
1500

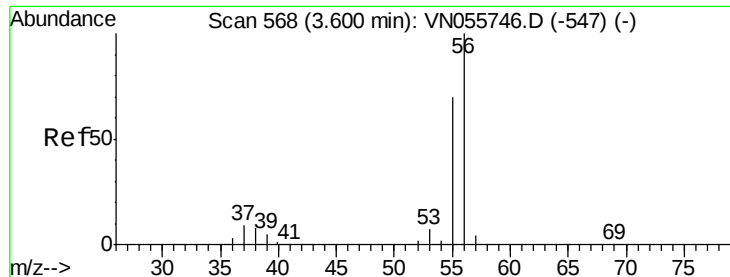
1000

500

0

Time-->





#13

Acrolein

Concen: 0.875 ug/l

RT: 3.61 min Scan# 570

Delta R.T. 0.01 min

Lab File: VN055754.D

Acq: 23 May 2019 15:31

Instrument :

MSVOA_N

ClientSampled :

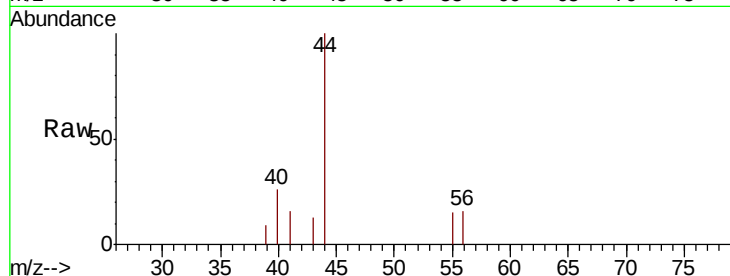
VN0523MBL01

Tot Ion: 56 Resp: 513

Ion Ratio Lower Upper

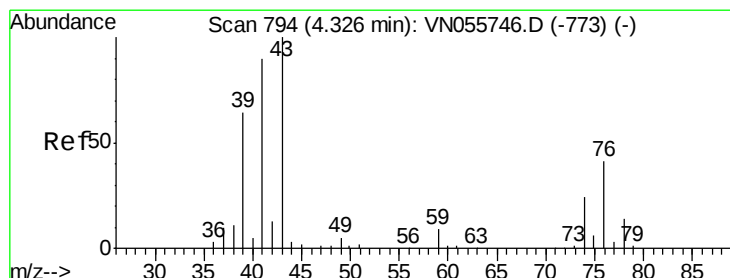
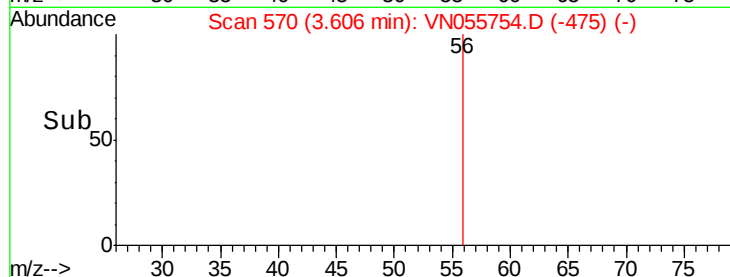
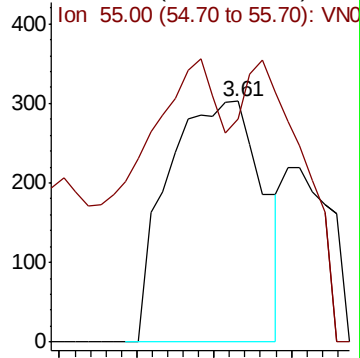
56 100

55 71.3 55.4 83.2



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#18

Methyl Acetate

Concen: Below Cal

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN055754.D

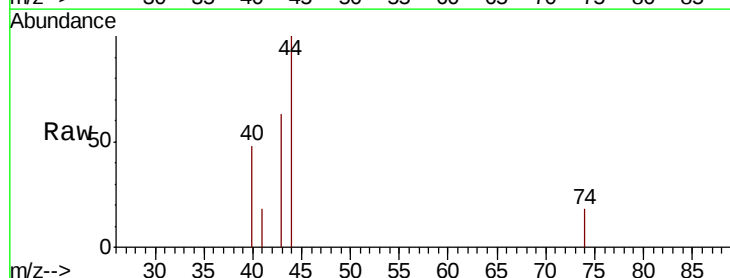
Acq: 23 May 2019 15:31

Tgt Ion: 43 Resp: 936

Ion Ratio Lower Upper

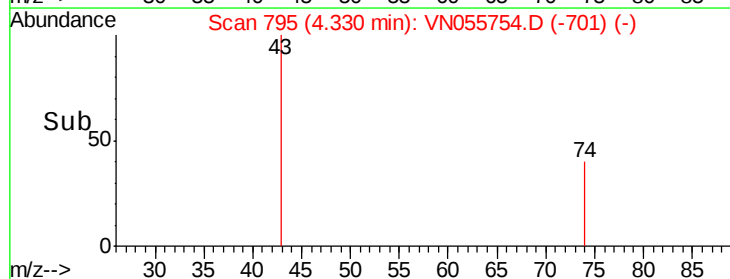
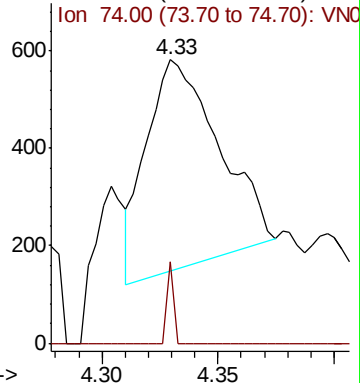
43 100

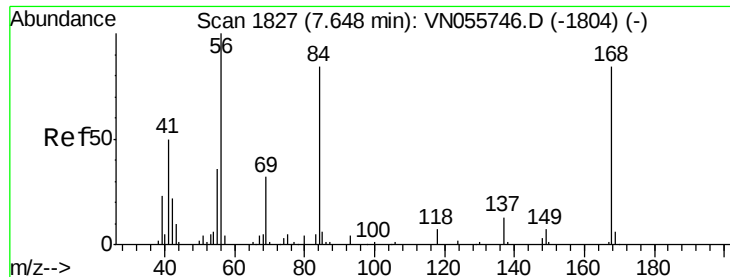
74 3.4 19.3 28.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#31

Cyclohexane

Concen: 0.937 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN055754.D

Acq: 23 May 2019 15:31

Instrument :

MSVOA_N

ClientSampled :

VN0523MBL01

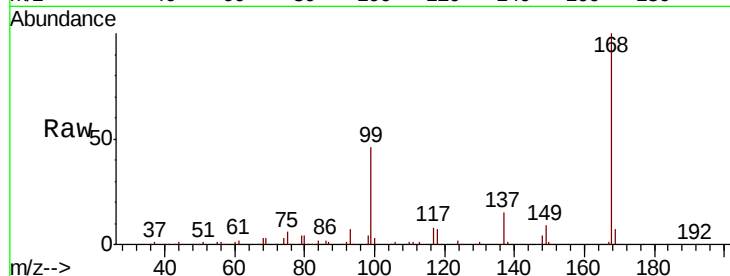
Tot Ion: 56 Resp: 6027

Ion Ratio Lower Upper

56 100

69 203.8 25.6 38.4#

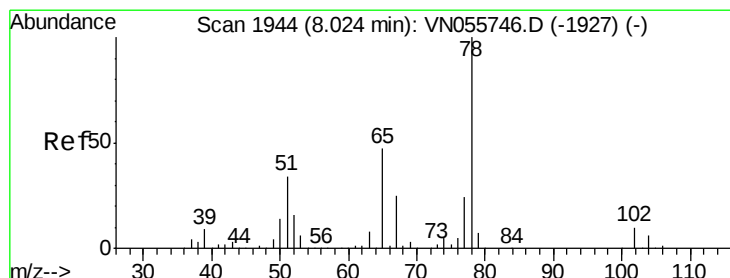
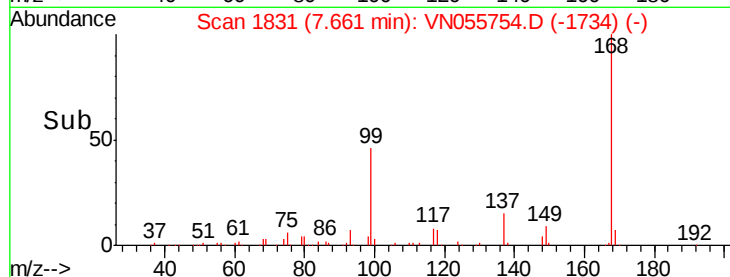
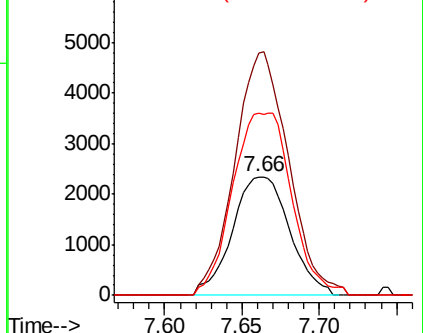
84 153.6 67.4 101.0#



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: 44.322 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN055754.D

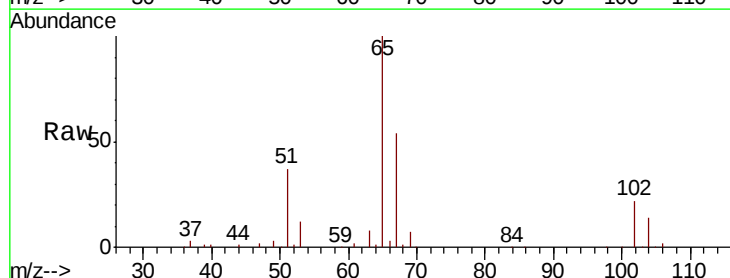
Acq: 23 May 2019 15:31

Tgt Ion: 65 Resp: 190003

Ion Ratio Lower Upper

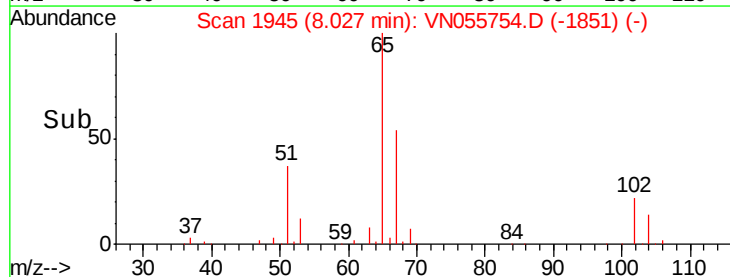
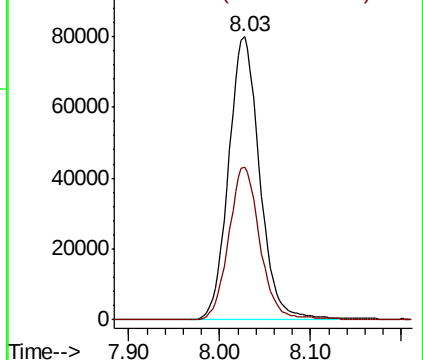
65 100

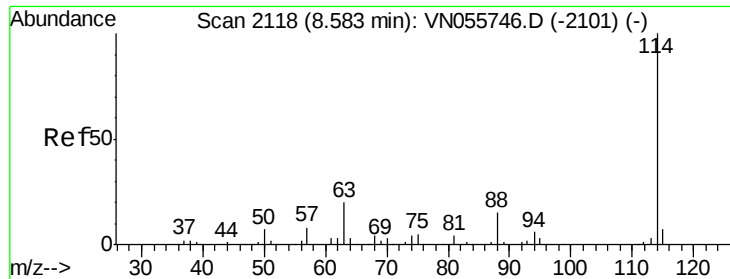
67 54.5 0.0 109.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

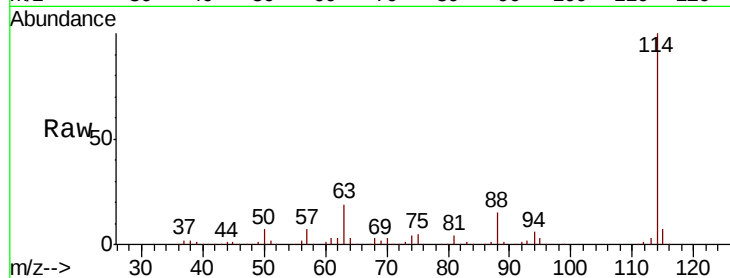




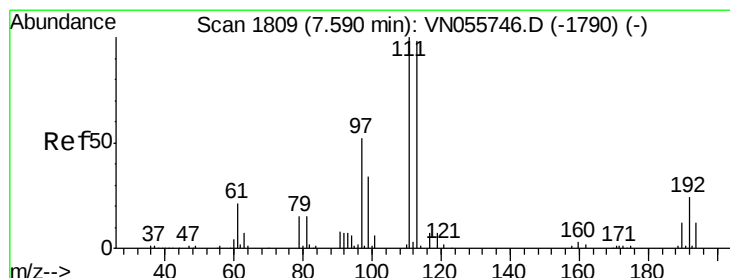
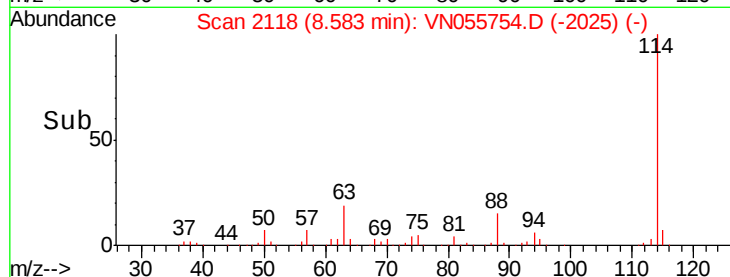
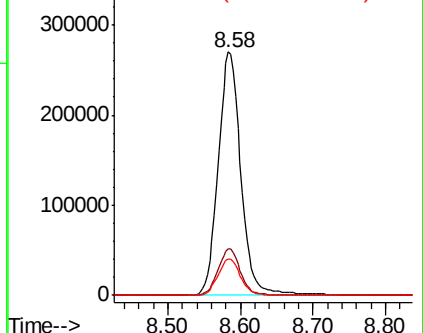
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN055754.D
 Acq: 23 May 2019 15:31

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0523MBL01

Tot Ion:114 Resp: 584150
 Ion Ratio Lower Upper
 114 100
 63 19.0 0.0 39.2
 88 14.9 0.0 31.0

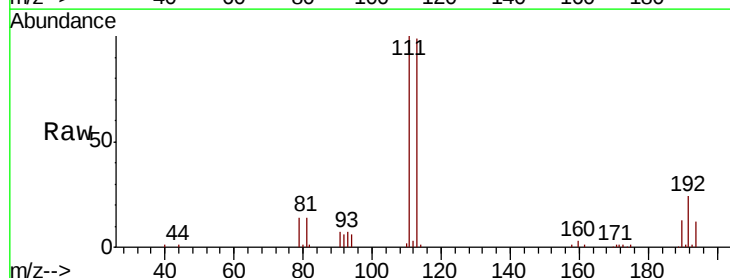


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

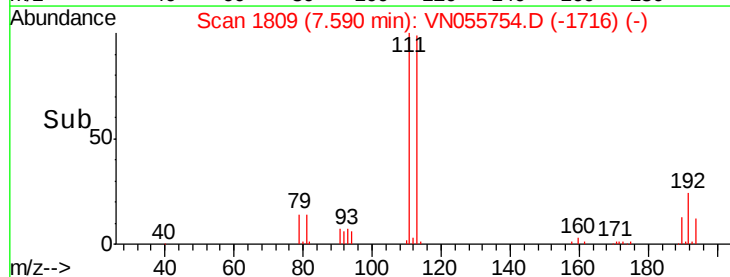
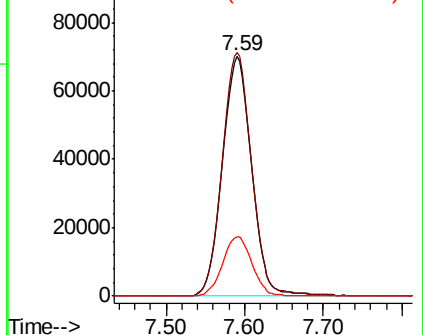


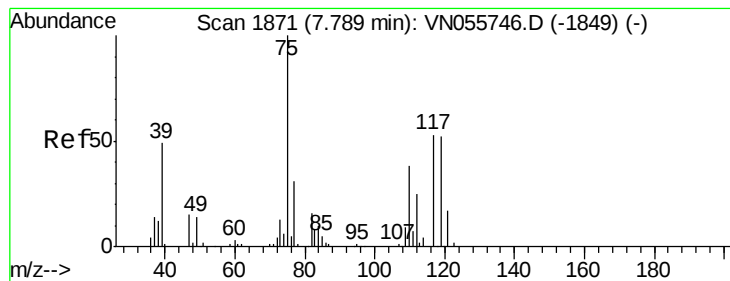
#35
 Dibromofluoromethane
 Concen: 48.875 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN055754.D
 Acq: 23 May 2019 15:31

Tgt Ion:113 Resp: 180504
 Ion Ratio Lower Upper
 113 100
 111 101.8 81.9 122.9
 192 24.8 19.5 29.3



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.816 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN055754.D

Acq: 23 May 2019 15:31

Instrument :

MSVOA_N

ClientSampled :

VN0523MBL01

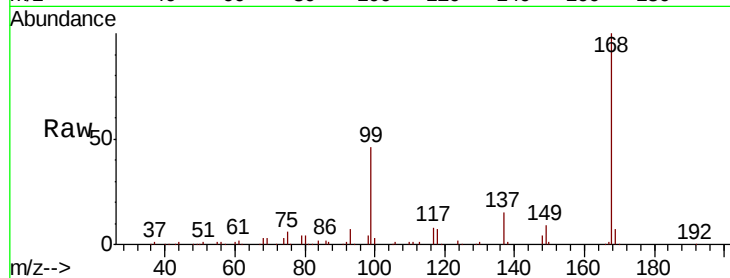
Tot Ion: 75 Resp: 24514

Ion Ratio Lower Upper

75 100

110 3.6 19.0 57.0#

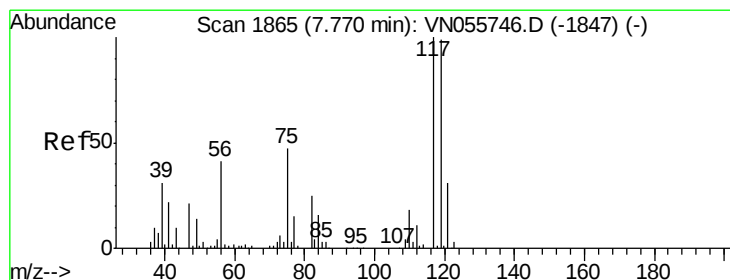
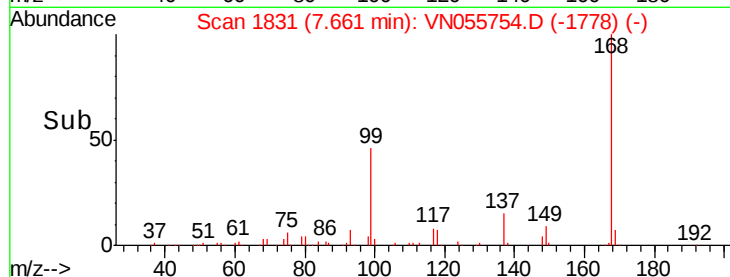
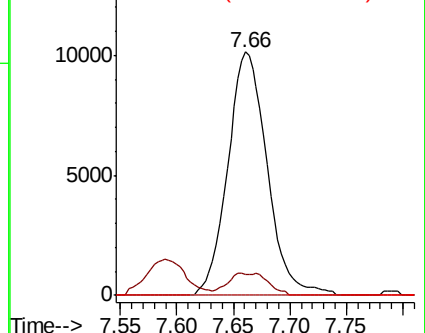
77 0.0 25.1 37.7#



Abundance Ion 74.90 (74.60 to 75.60): VN055746.D (-1849) (-)

Ion 109.90 (109.60 to 110.60): VN055746.D (-1849) (-)

Ion 76.90 (76.60 to 77.60): VN055746.D (-1849) (-)



#38

Carbon Tetrachloride

Concen: 6.479 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN055754.D

Acq: 23 May 2019 15:31

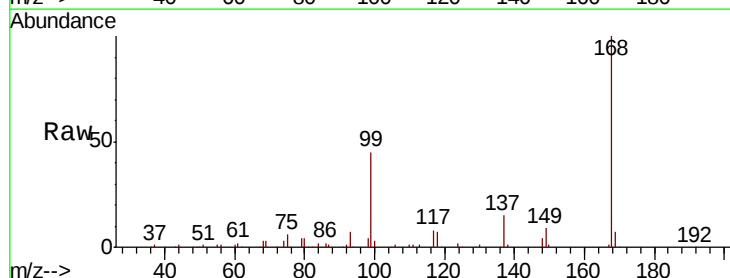
Tgt Ion: 117 Resp: 34356

Ion Ratio Lower Upper

117 100

119 5.0 79.0 118.6#

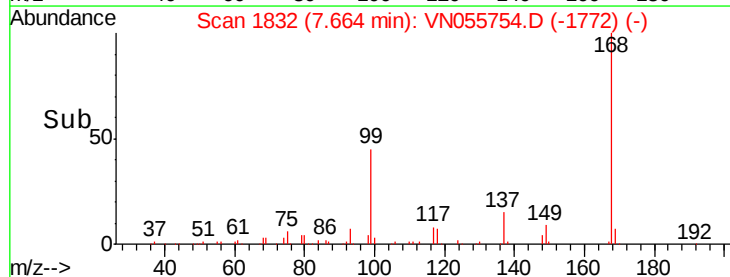
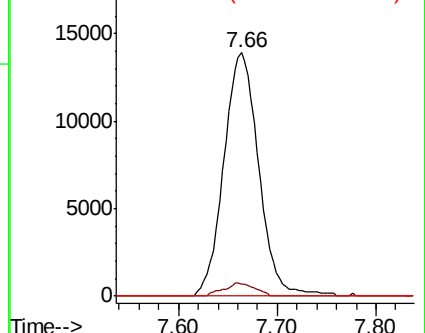
121 0.0 24.7 37.1#

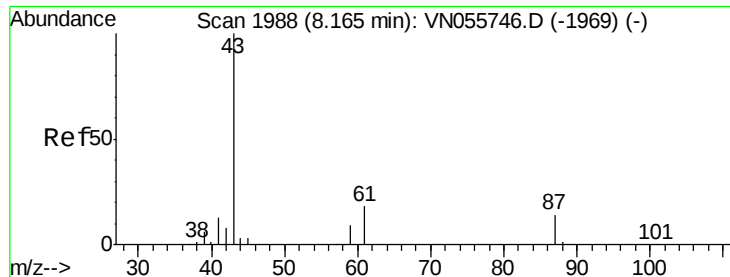


Abundance Ion 116.80 (116.50 to 117.50): VN055746.D (-1847) (-)

Ion 118.80 (118.50 to 119.50): VN055746.D (-1847) (-)

Ion 120.80 (120.50 to 121.50): VN055746.D (-1847) (-)





#43

Isopropyl Acetate

Concen: 1.255 ug/l

RT: 8.32 min Scan# 2036

Delta R.T. 0.15 min

Lab File: VN055754.D

Acq: 23 May 2019 15:31

Instrument :

MSVOA_N

ClientSampleId :

VN0523MBL01

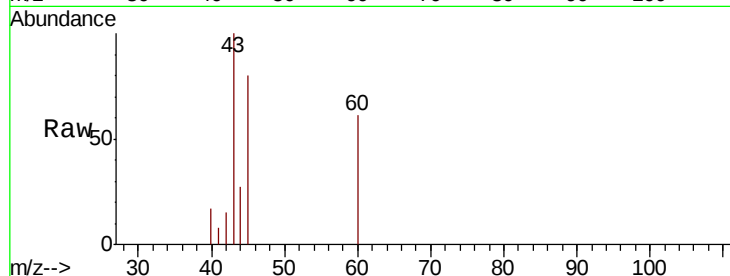
Tot Ion: 43 Resp: 10375

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

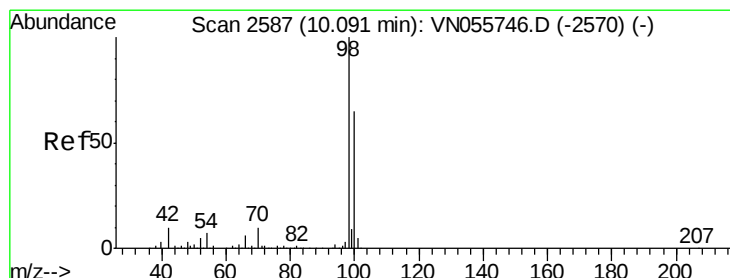
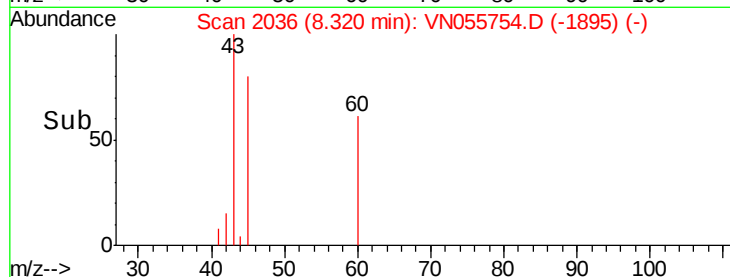
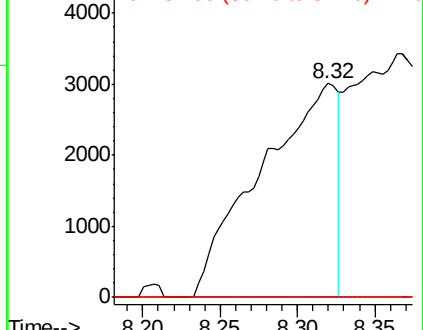
87 0.0 11.4 17.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#50

Toluene-d8

Concen: 48.630 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055754.D

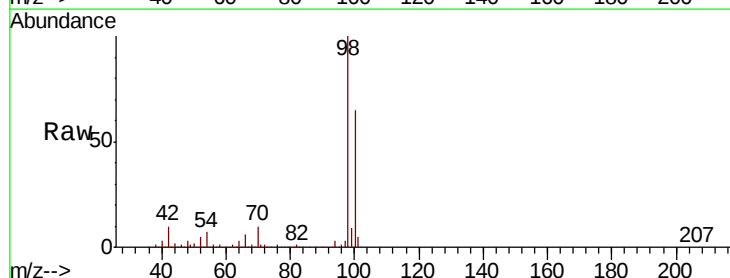
Acq: 23 May 2019 15:31

Tgt Ion: 98 Resp: 688935

Ion Ratio Lower Upper

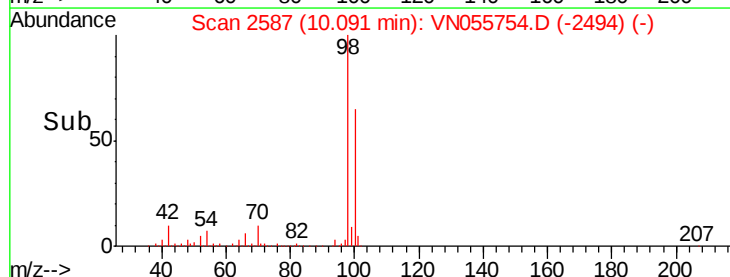
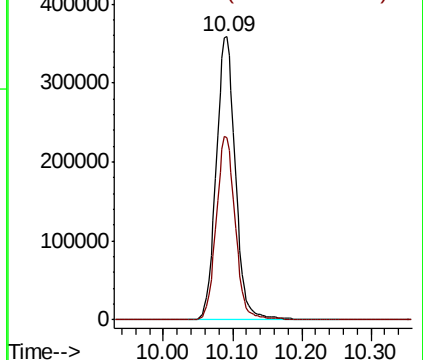
98 100

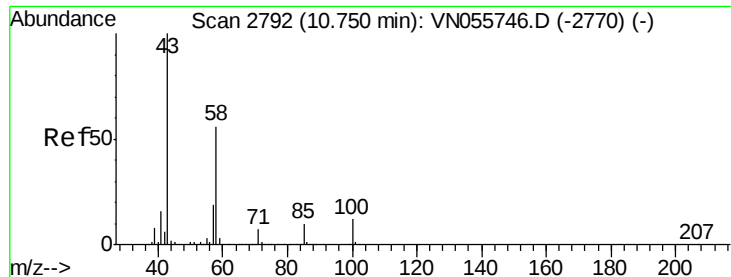
100 64.3 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

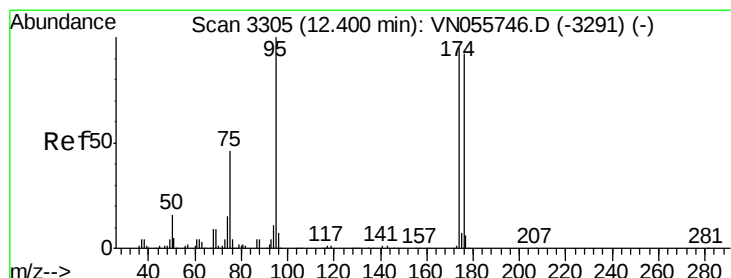
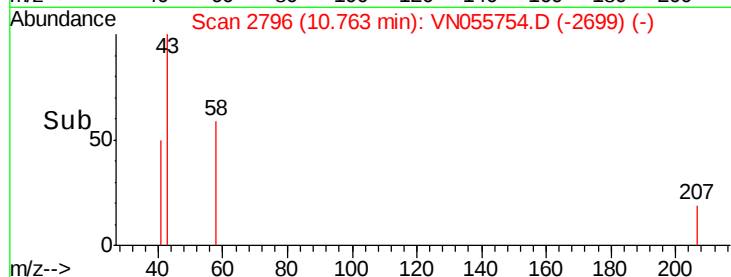
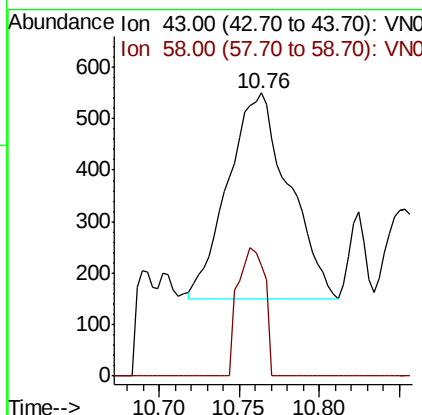
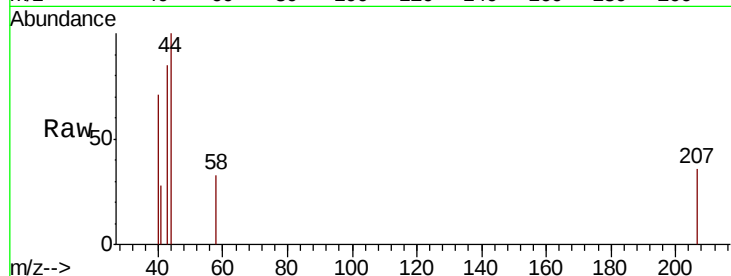




#59
2-Hexanone
Concen: 0.301 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN055754.D
Acq: 23 May 2019 15:31

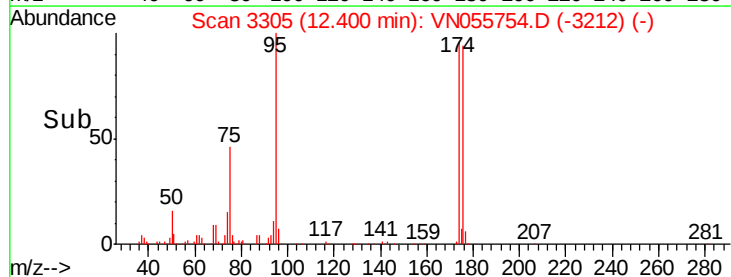
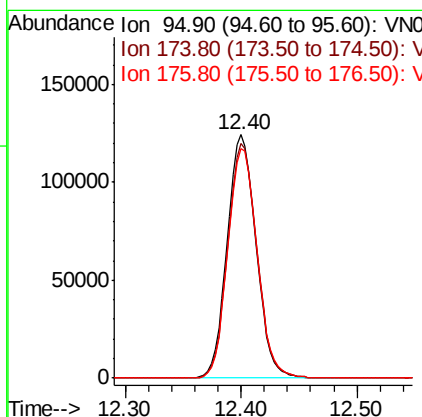
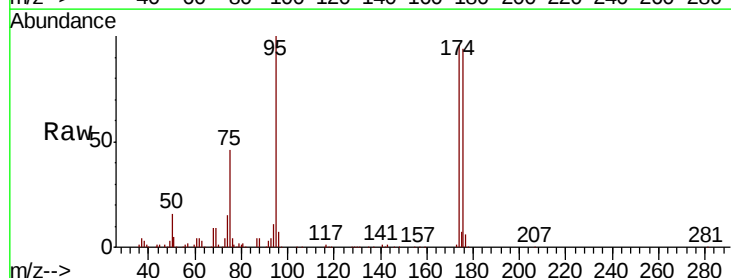
Instrument :
MSVOA_N
ClientSampled :
VN0523MBL01

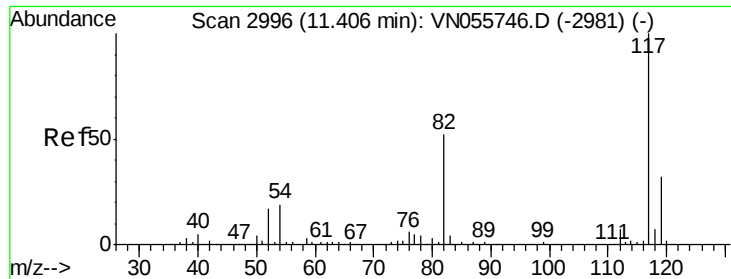
Tot Ion: 43 Resp: 1041
Ion Ratio Lower Upper
43 100
58 27.0 28.2 84.7#



#62
4-Bromofluorobenzene
Concen: 43.858 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN055754.D
Acq: 23 May 2019 15:31

Tgt Ion: 95 Resp: 213044
Ion Ratio Lower Upper
95 100
174 97.2 0.0 191.0
176 95.5 0.0 185.2

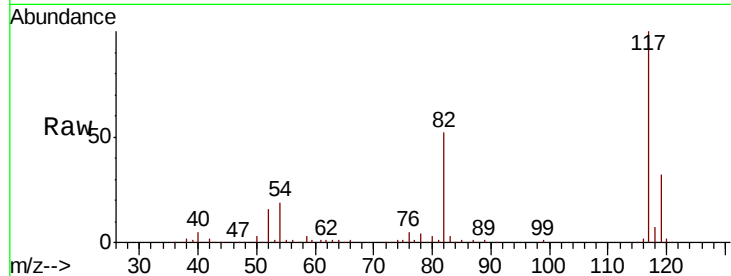




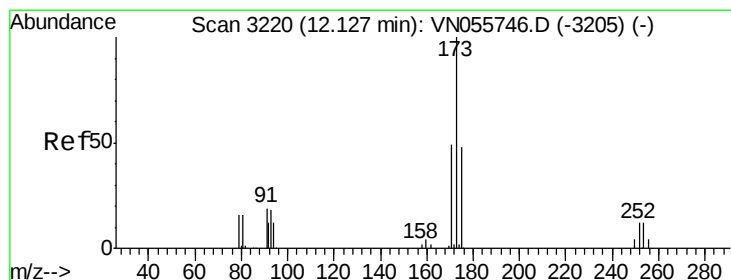
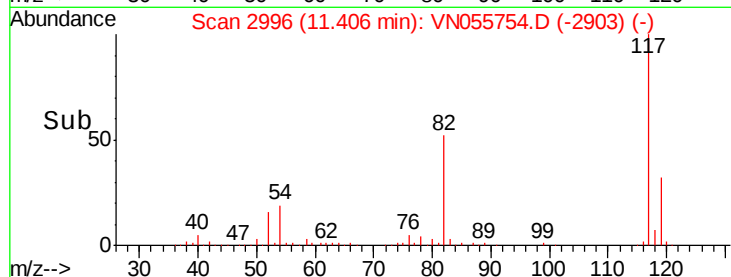
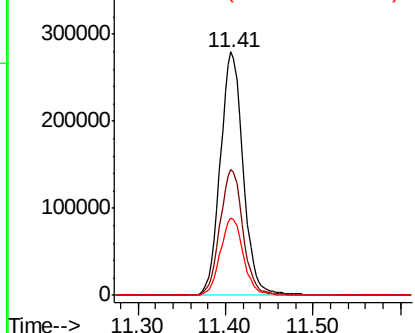
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055754.D
Acq: 23 May 2019 15:31

Instrument :
MSVOA_N
ClientSampleId :
VN0523MBL01

Tot Ion:117 Resp: 508544
Ion Ratio Lower Upper
117 100
82 51.6 41.8 62.8
119 31.8 25.4 38.0

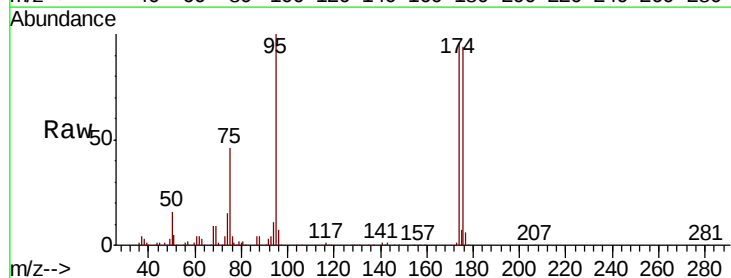


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

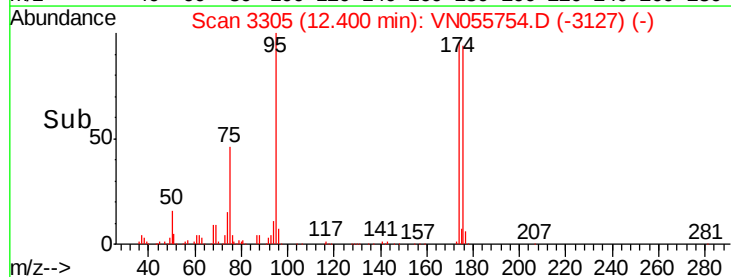
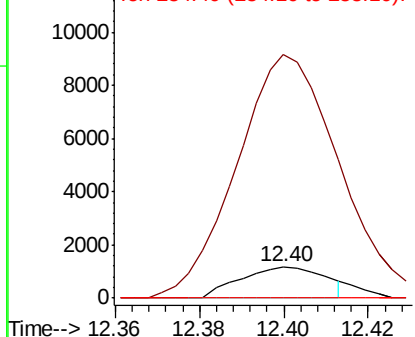


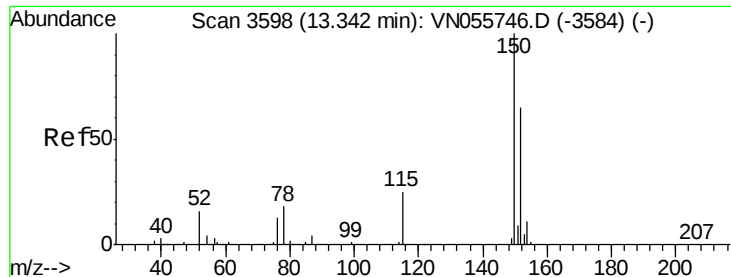
#71
Bromoform
Concen: 0.473 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN055754.D
Acq: 23 May 2019 15:31

Tgt Ion:173 Resp: 1638
Ion Ratio Lower Upper
173 100
175 824.3 24.3 72.8#
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN055754.D

Acq: 23 May 2019 15:31

Instrument :

MSVOA_N

ClientSampleId :

VN0523MBL01

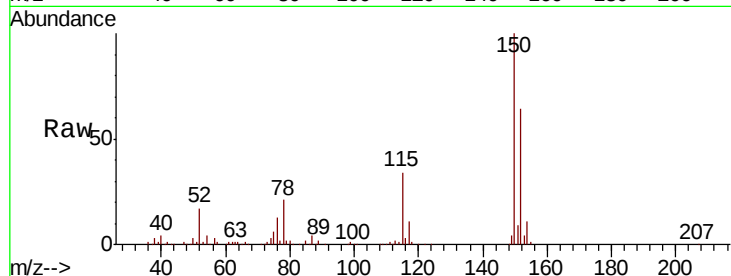
Tot Ion:152 Resp: 181773

Ion Ratio Lower Upper

152 100

115 53.0 27.0 81.0

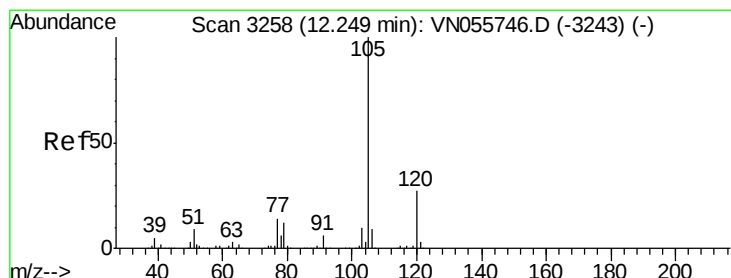
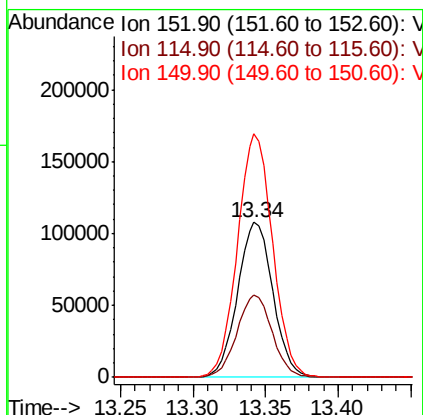
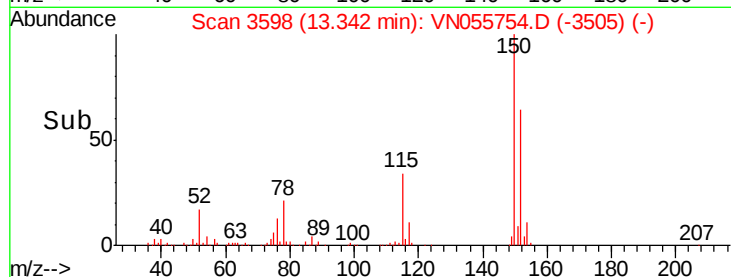
150 156.8 0.0 343.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN055754.D

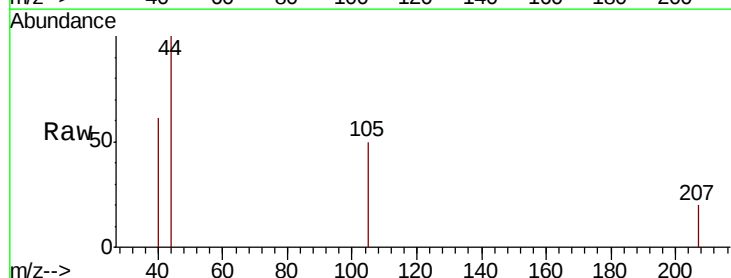
Acq: 23 May 2019 15:31

Tgt Ion:105 Resp: 578

Ion Ratio Lower Upper

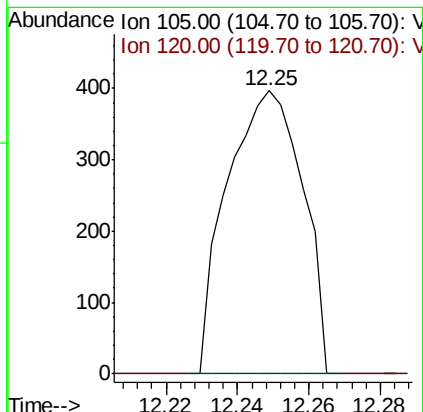
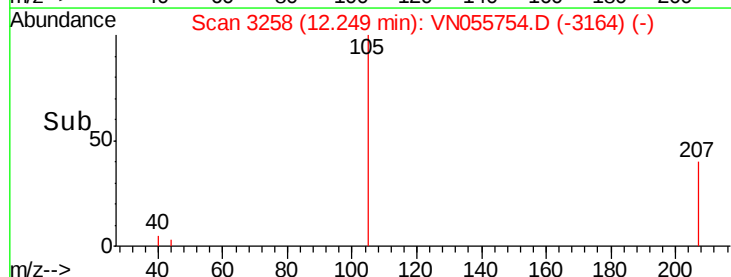
105 100

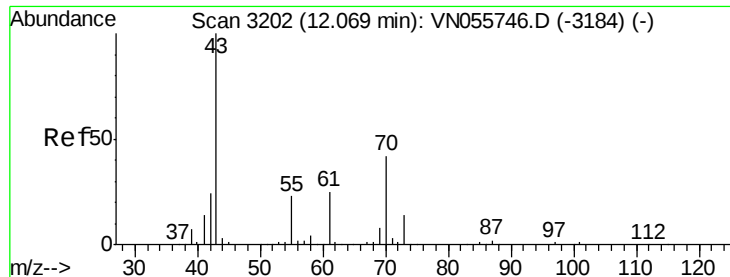
120 0.0 13.6 40.7#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#74

N-amyl acetate

Concen: Below Cal

RT: 12.07 min Scan# 3201

Delta R.T. -0.00 min

Lab File: VN055754.D

Acq: 23 May 2019 15:31

Instrument :

MSVOA_N

ClientSampled :

VN0523MBL01

Tot Ion: 43 Resp: 97

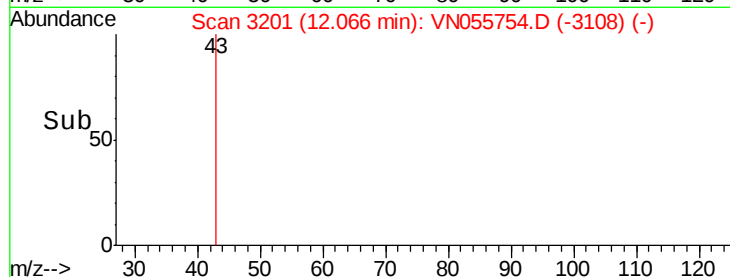
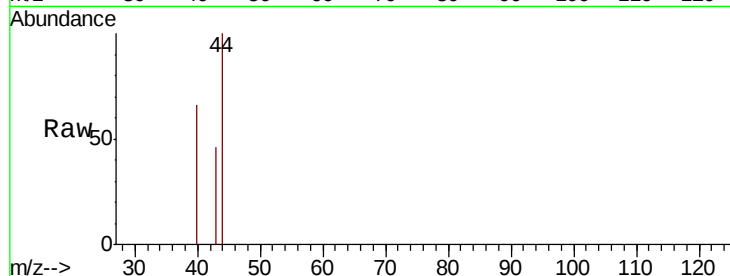
Ion Ratio Lower Upper

43 100

70 0.0 34.0 51.0#

55 128.9 18.6 28.0#

61 0.0 20.0 30.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

12.07

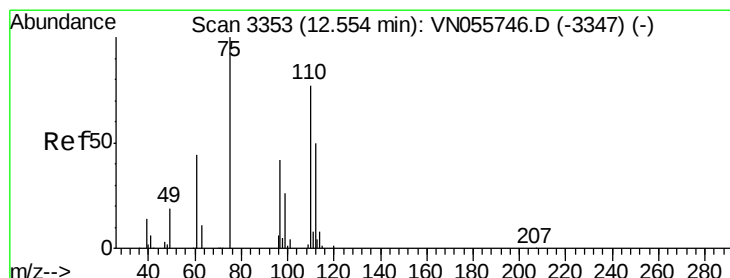
300

200

100

0

Time-->



#76

1,2,3-Trichloropropane

Concen: 29.951 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055754.D

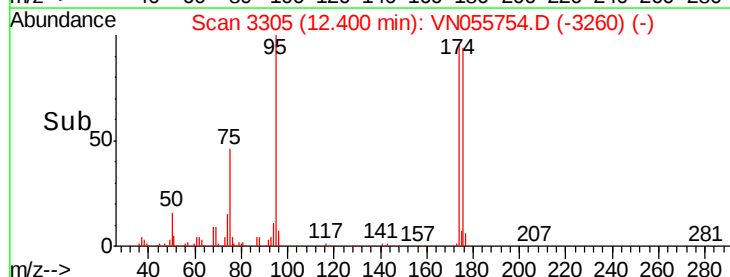
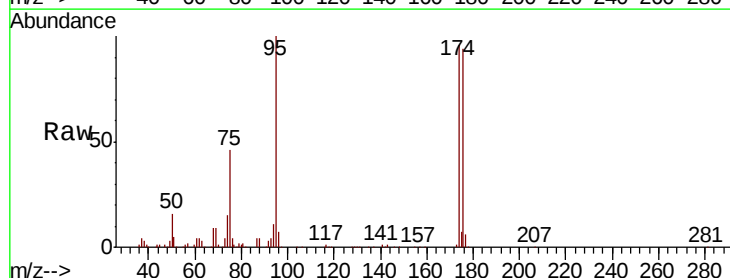
Acq: 23 May 2019 15:31

Tgt Ion: 75 Resp: 97696

Ion Ratio Lower Upper

75 100

77 0.6 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

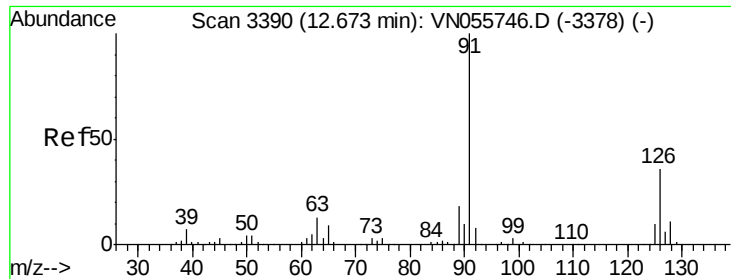
60000

40000

20000

0

Time-->



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.67 min Scan# 3389

Delta R.T. -0.00 min

Lab File: VN055754.D

Acq: 23 May 2019 15:31

Instrument :

MSVOA_N

ClientSampled :

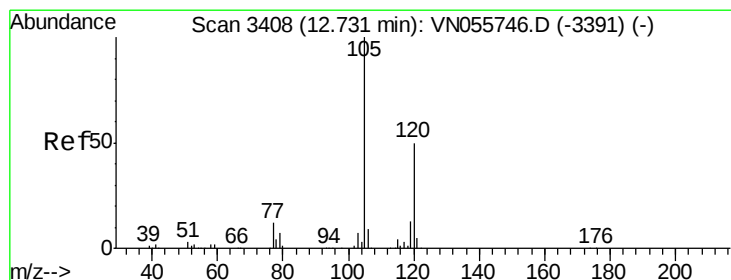
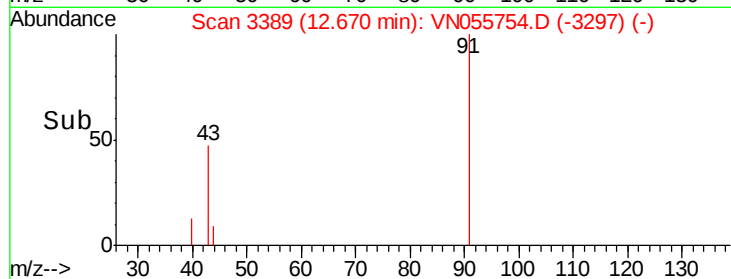
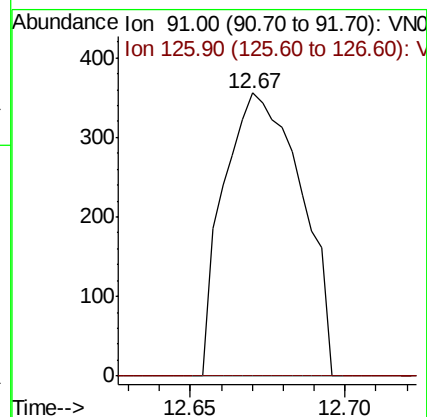
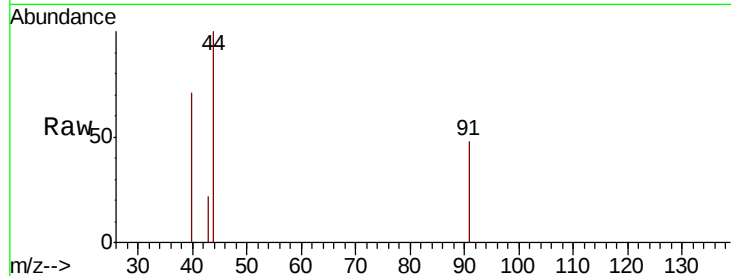
VN0523MBL01

Tot Ion: 91 Resp: 620

Ion Ratio Lower Upper

91 100

126 0.0 18.1 54.4#



#80

1,3,5-Trimethylbenzene

Concen: Below Cal

RT: 12.74 min Scan# 3410

Delta R.T. 0.01 min

Lab File: VN055754.D

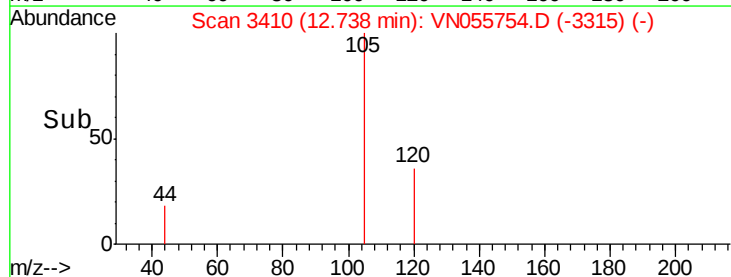
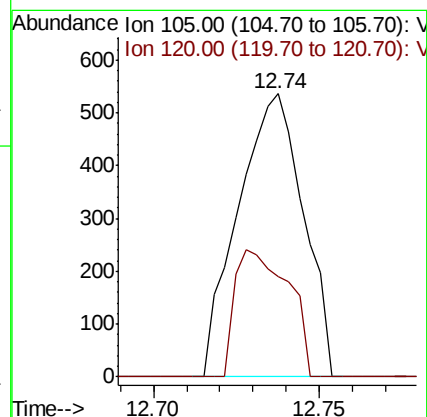
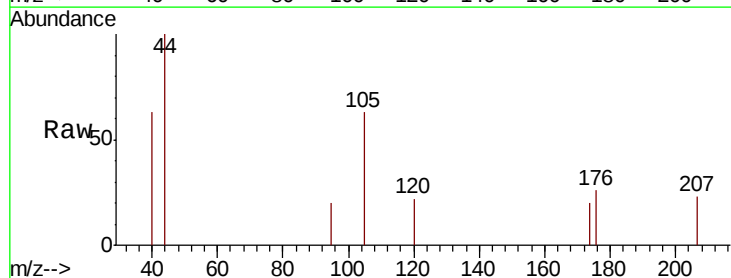
Acq: 23 May 2019 15:31

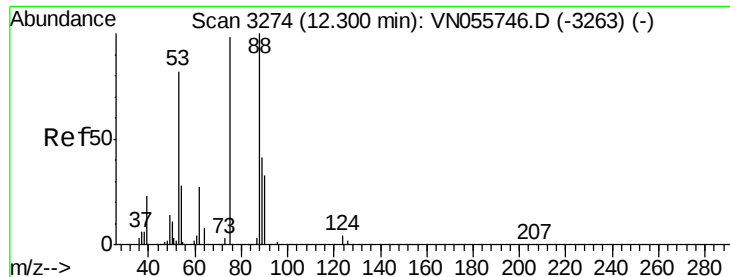
Tgt Ion: 105 Resp: 732

Ion Ratio Lower Upper

105 100

120 36.9 24.7 74.1

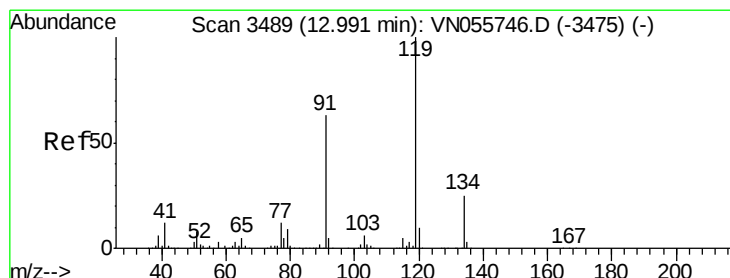
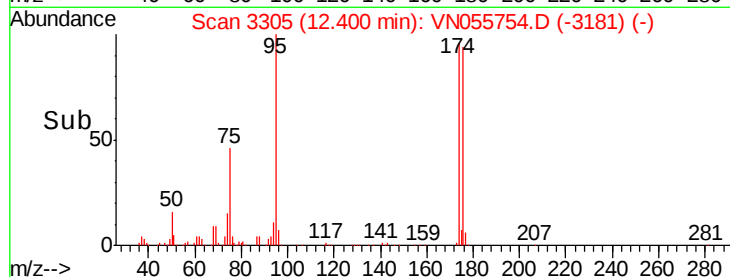
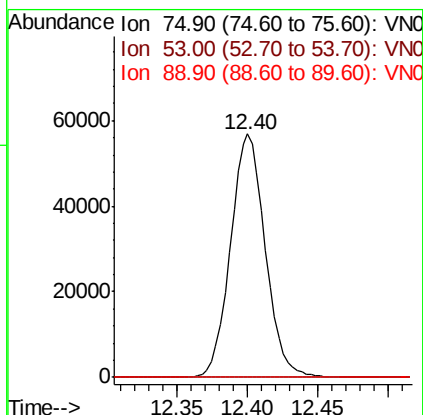
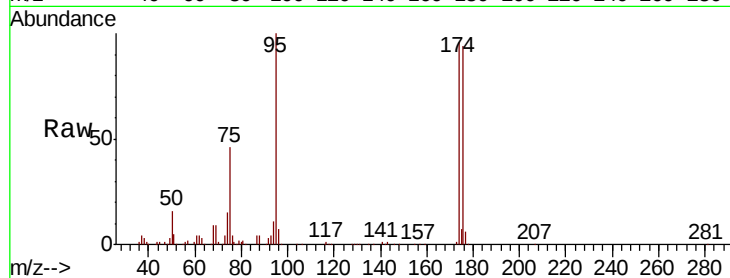




#81
trans-1,4-Dichloro-2-butene
Concen: 72.314 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.10 min
Lab File: VN055754.D
Acq: 23 May 2019 15:31

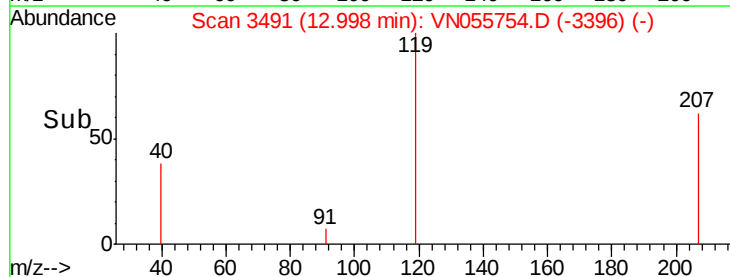
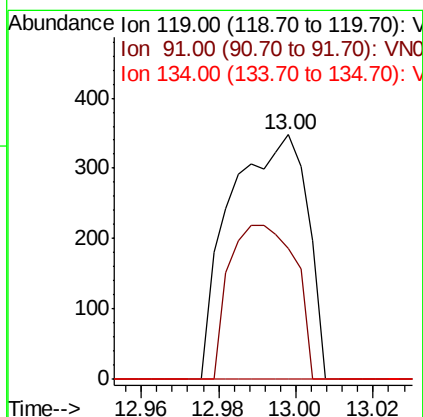
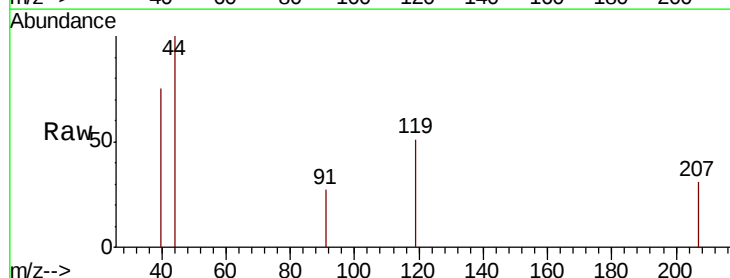
Instrument :
MSVOA_N
ClientSampleId :
VN0523MBL01

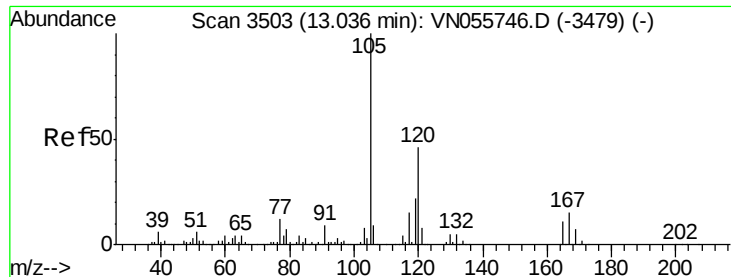
Tot Ion: 75 Resp: 97696
Ion Ratio Lower Upper
75 100
53 0.0 68.1 102.1#
89 0.0 36.9 55.3#



#83
tert-Butylbenzene
Concen: Below Cal
RT: 13.00 min Scan# 3491
Delta R.T. 0.01 min
Lab File: VN055754.D
Acq: 23 May 2019 15:31

Tgt Ion: 119 Resp: 480
Ion Ratio Lower Upper
119 100
91 53.5 30.9 92.8
134 0.0 13.3 39.8#

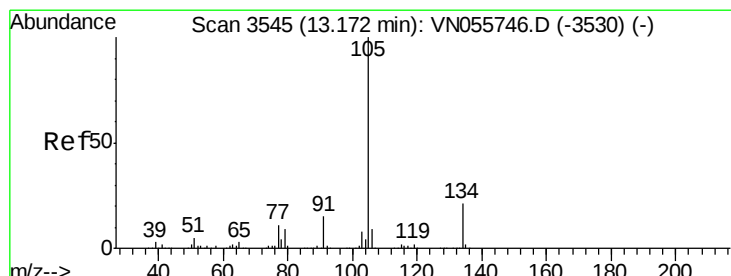
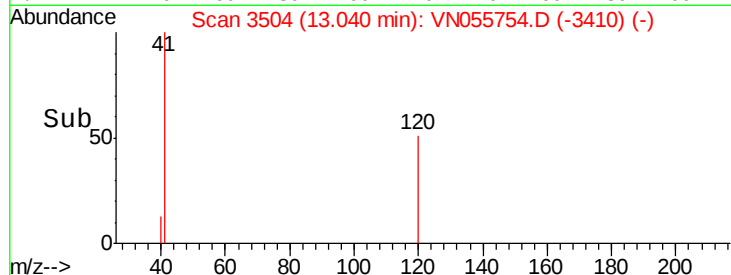
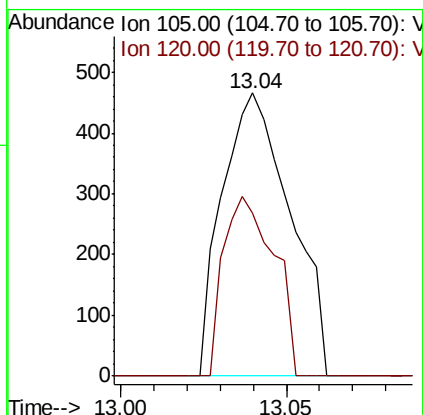
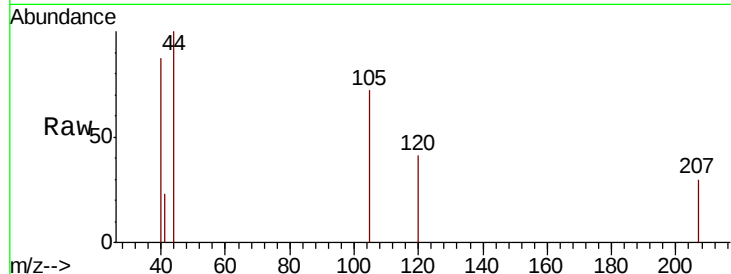




#84
 1,2,4-Trimethylbenzene
 Concen: Below Cal
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN055754.D
 Acq: 23 May 2019 15:31

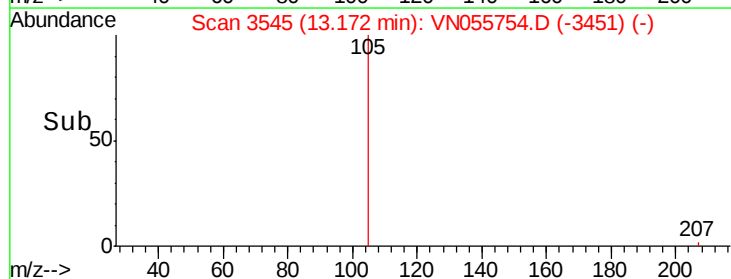
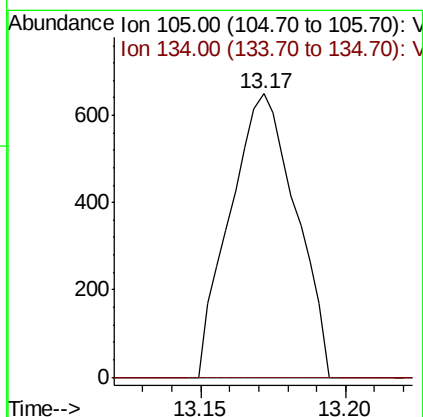
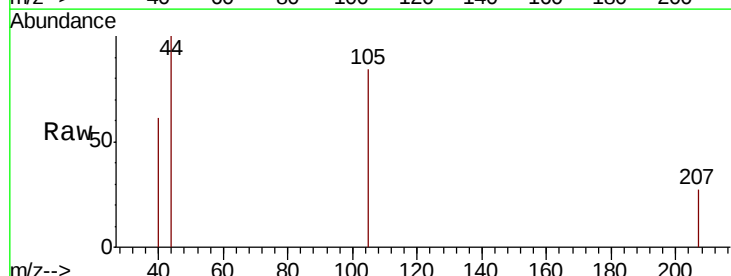
Instrument :
 MSVOA_N
 ClientSampled :
 VN0523MBL01

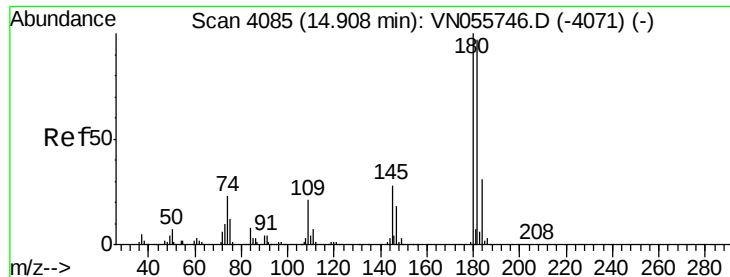
Tot Ion:105 Resp: 668
 Ion Ratio Lower Upper
 105 100
 120 46.9 23.0 69.0



#85
 sec-Butylbenzene
 Concen: Below Cal
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN055754.D
 Acq: 23 May 2019 15:31

Tgt Ion:105 Resp: 1020
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.4 31.2#

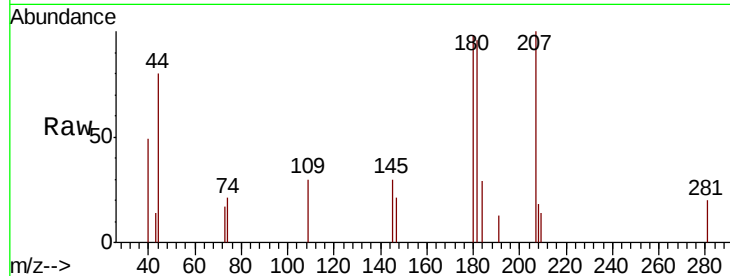




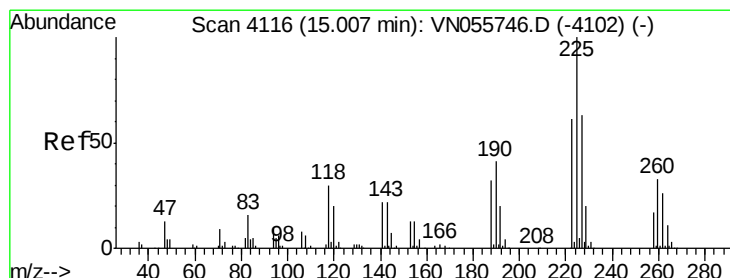
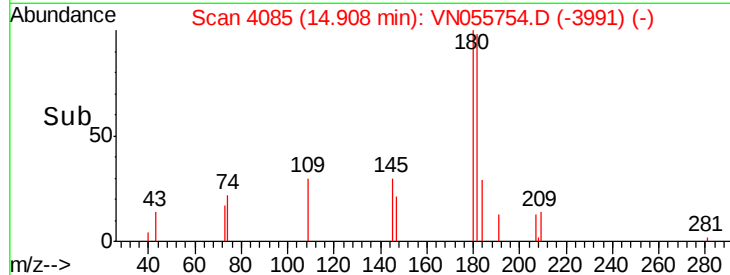
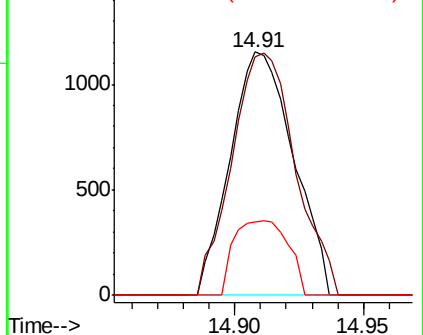
#93
 1,2,4-Trichlorobenzene
 Concen: 4.155 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN055754.D
 Acq: 23 May 2019 15:31

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0523MBL01

Tot Ion:180 Resp: 1970
 Ion Ratio Lower Upper
 180 100
 182 100.2 48.3 144.9
 145 26.2 14.0 41.9

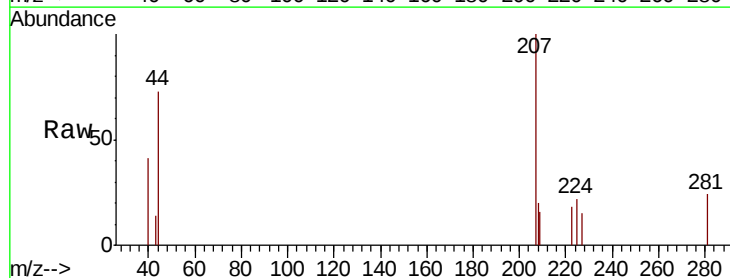


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

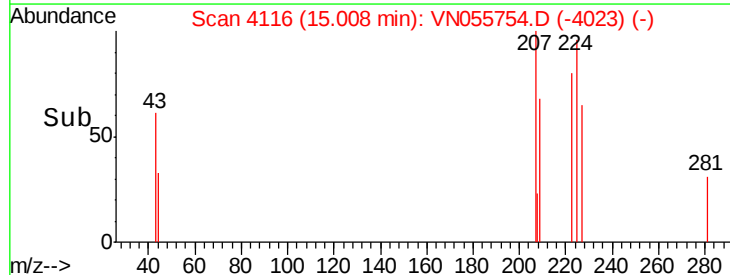
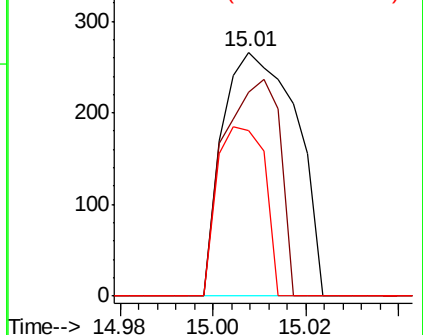


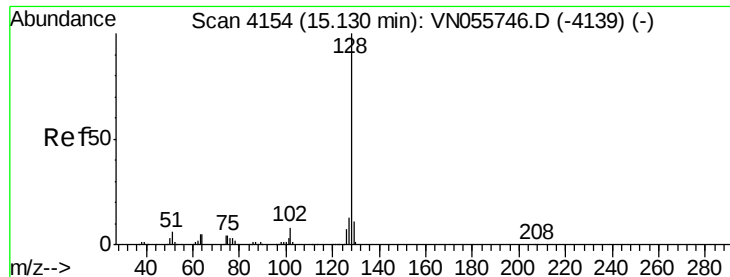
#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN055754.D
 Acq: 23 May 2019 15:31

Tgt Ion:225 Resp: 295
 Ion Ratio Lower Upper
 225 100
 223 66.8 30.9 92.7
 227 44.4 31.6 94.7



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 0.587 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN055754.D

Acq: 23 May 2019 15:31

Instrument :

MSVOA_N

ClientSampleId :

VN0523MBL01

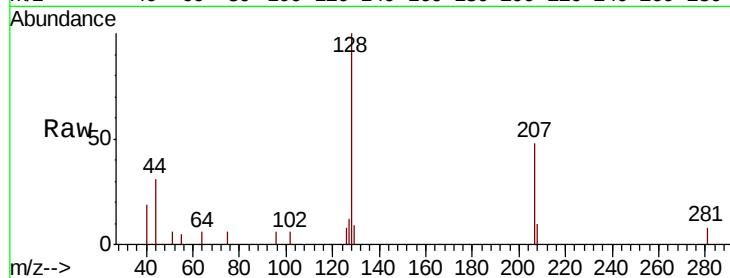
Tot Ion:128 Resp: 4935

Ion Ratio Lower Upper

128 100

127 9.6 10.3 15.5#

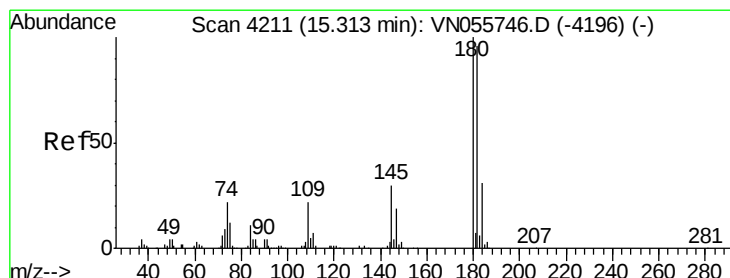
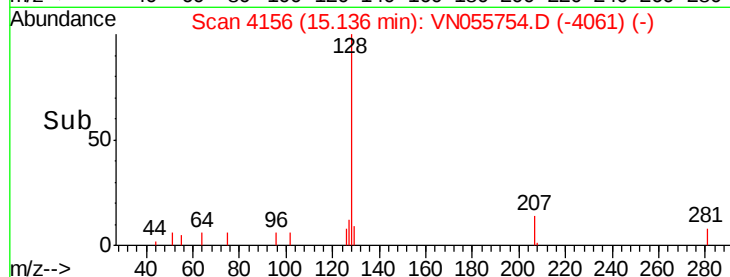
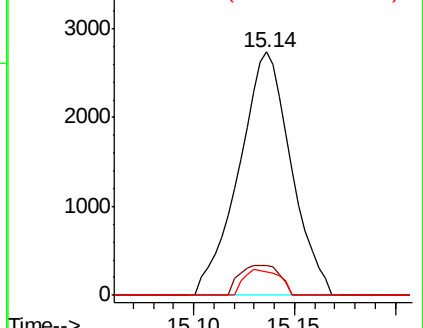
129 7.3 8.7 13.1#



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



#96

1,2,3-Trichlorobenzene

Concen: 0.710 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN055754.D

Acq: 23 May 2019 15:31

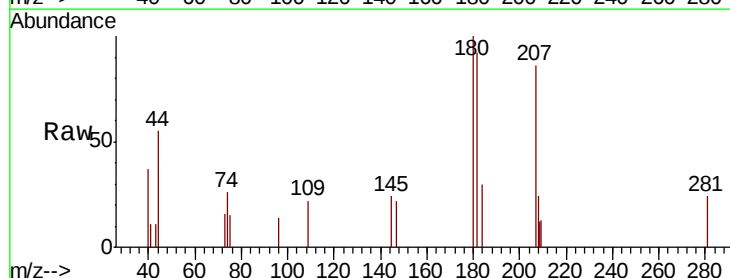
Tgt Ion:180 Resp: 2300

Ion Ratio Lower Upper

180 100

182 95.2 47.9 143.7

145 24.2 14.9 44.7



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

