

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061319\
 Data File : VN056284.D
 Acq On : 13 Jun 2019 16:19
 Operator : JC/SP
 Sample : K3345-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 14 01:13:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N060419W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 04 11:02:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	342841	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	561468	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	542985	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	170430	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	189848	55.77	ug/l	0.00
Spiked Amount			Recovery	=	111.54%	
35) Dibromofluoromethane	7.59	113	175244	50.87	ug/l	0.00
Spiked Amount			Recovery	=	101.74%	
50) Toluene-d8	10.09	98	685348	51.70	ug/l	0.00
Spiked Amount			Recovery	=	103.40%	
62) 4-Bromofluorobenzene	12.40	95	224978	49.91	ug/l	0.00
Spiked Amount			Recovery	=	99.82%	

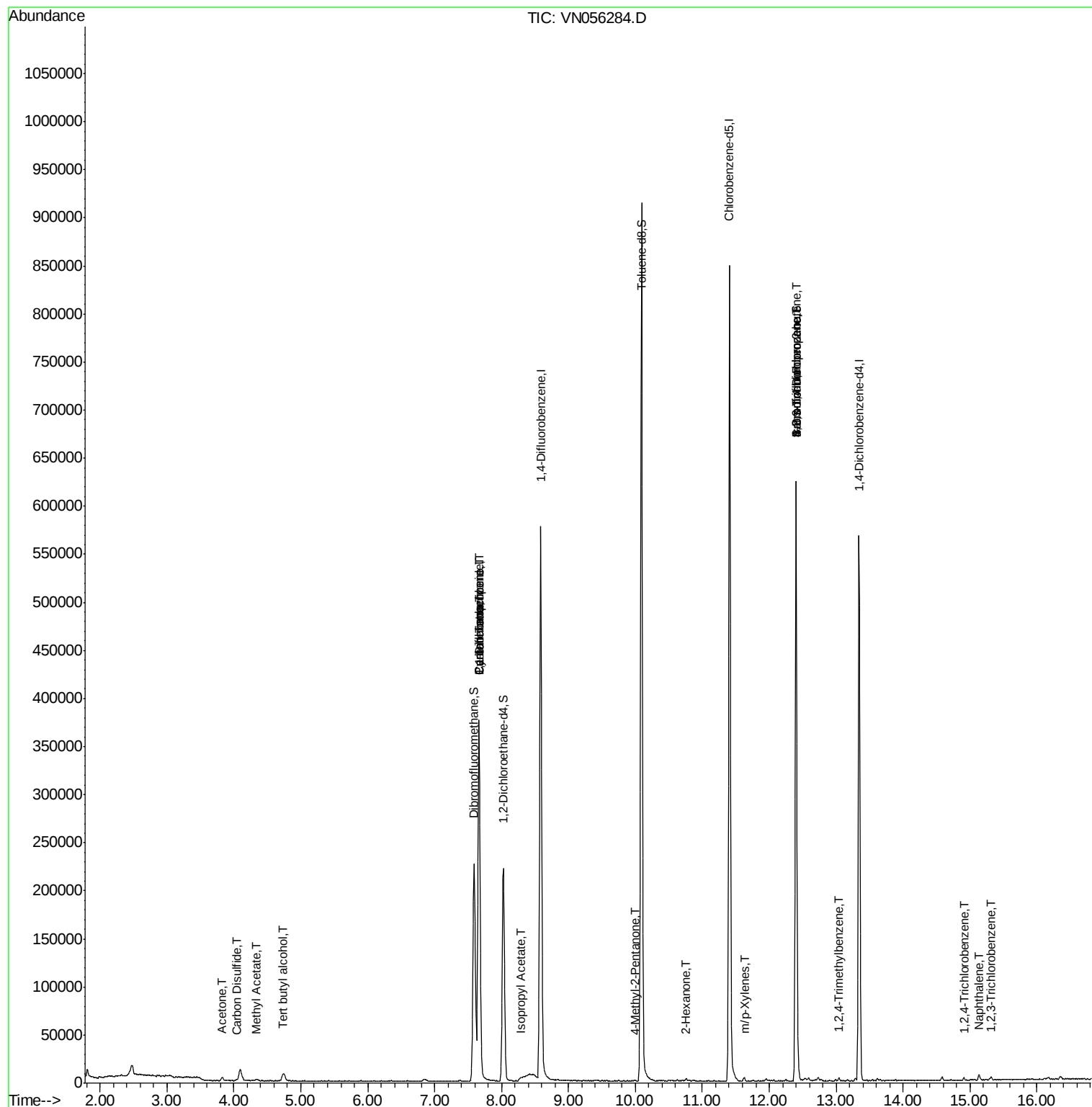
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	8326	14.055	ug/l #	74
16) Acetone	3.82	43	5649	3.470	ug/l	99
17) Carbon Disulfide	4.03	76	2327	0.338	ug/l #	74
18) Methyl Acetate	4.34	43	4335	0.786	ug/l #	66
31) Cyclohexane	7.66	56	5532	1.024	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	21862	4.528	ug/l #	47
38) Carbon Tetrachloride	7.66	117	29226	6.566	ug/l #	15
43) Isopropyl Acetate	8.29	43	3055	0.439	ug/l #	53
51) 4-Methyl-2-Pentanone	9.99	43	1559	0.358	ug/l #	55
59) 2-Hexanone	10.76	43	2240	0.710	ug/l	79
68) m/p-Xylenes	11.62	106	1499	0.209	ug/l	84
71) Bromoform	12.40	173	1522	3.201	ug/l #	1
73) Isopropylbenzene	12.25	105	1696	Below Cal		87
76) 1,2,3-Trichloropropane	12.40	75	102928	32.822	ug/l #	100
79) 2-Chlorotoluene	12.68	91	860	Below Cal	#	44
81) trans-1,4-Dichloro-2-buten	12.40	75	102928	109.302	ug/l #	15
83) tert-Butylbenzene	12.99	119	723	Below Cal	#	70
84) 1,2,4-Trimethylbenzene	13.04	105	2801	0.258	ug/l	100
93) 1,2,4-Trichlorobenzene	14.91	180	1208	4.621	ug/l	87
94) Hexachlorobutadiene	15.01	225	289	Below Cal		74
95) Naphthalene	15.14	128	5938	4.524	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	1679	3.524	ug/l	88

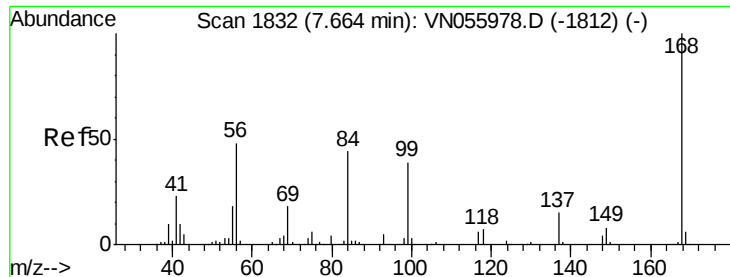
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN056284.D

Acq: 13 Jun 2019 16:19

Instrument :

MSVOA_N

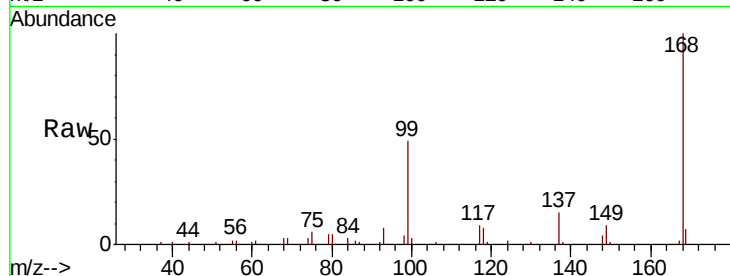
ClientSampleId :

Tot Ion:168 Resp: 342841

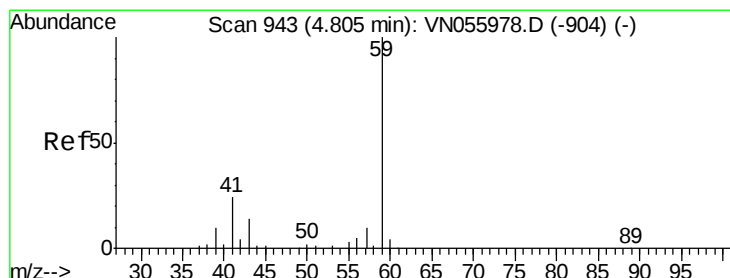
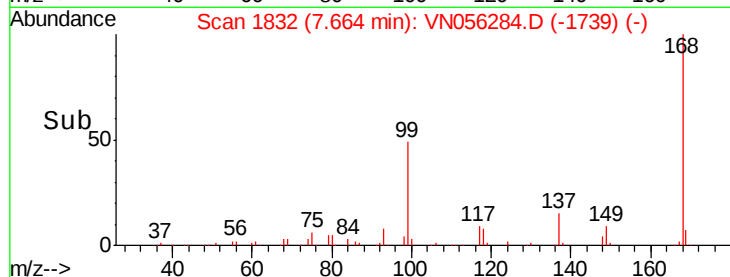
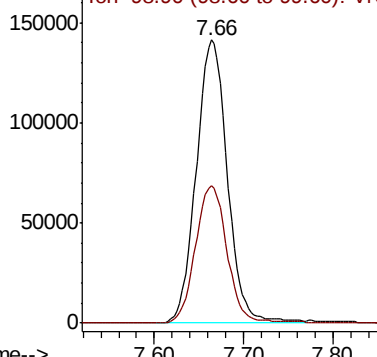
Ion Ratio Lower Upper

168 100

99 48.5 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): VN055978.D (-1812) (-)



#11

Tert butyl alcohol

Concen: 14.055 ug/l

RT: 4.74 min Scan# 924

Delta R.T. -0.06 min

Lab File: VN056284.D

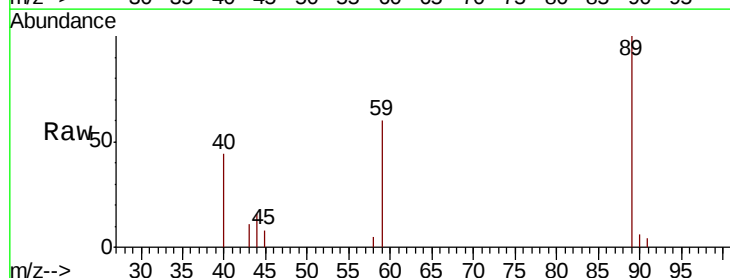
Acq: 13 Jun 2019 16:19

Tgt Ion: 59 Resp: 8326

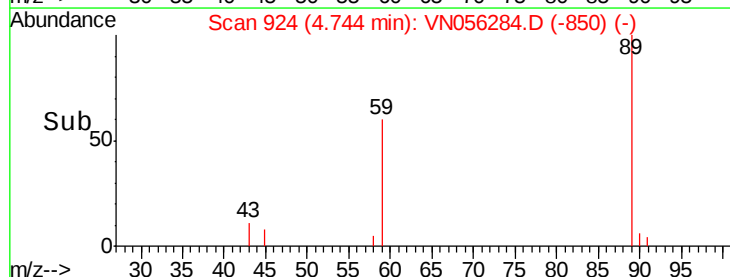
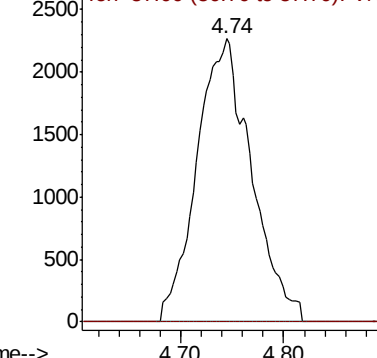
Ion Ratio Lower Upper

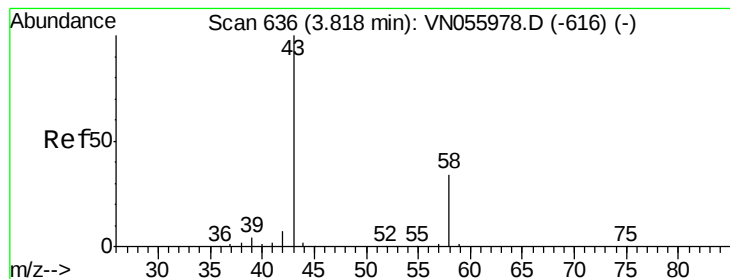
59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN055978.D (-904) (-)





#16

Acetone

Concen: 3.470 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN056284.D

Acq: 13 Jun 2019 16:19

Instrument :

MSVOA_N

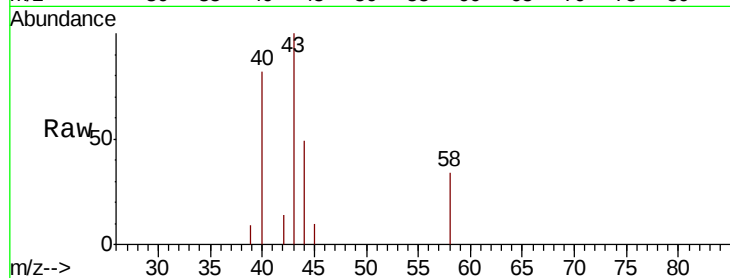
ClientSampled :

Tot Ion: 43 Resp: 5649

Ion Ratio Lower Upper

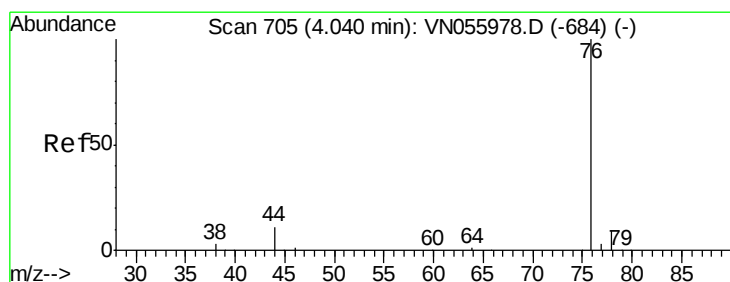
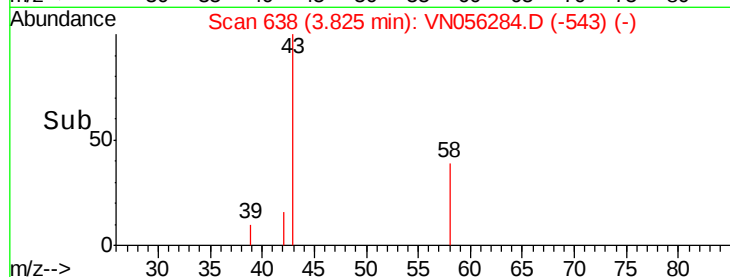
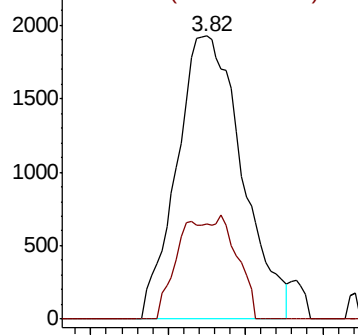
43 100

58 33.6 26.6 39.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#17

Carbon Disulfide

Concen: 0.338 ug/l

RT: 4.03 min Scan# 703

Delta R.T. -0.01 min

Lab File: VN056284.D

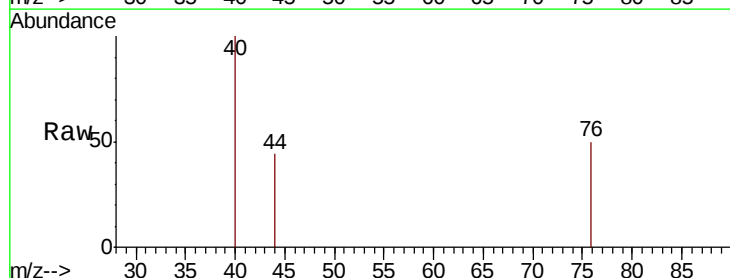
Acq: 13 Jun 2019 16:19

Tgt Ion: 76 Resp: 2327

Ion Ratio Lower Upper

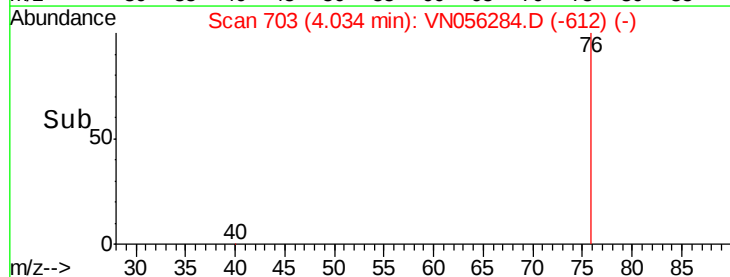
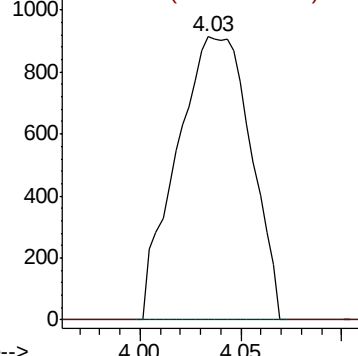
76 100

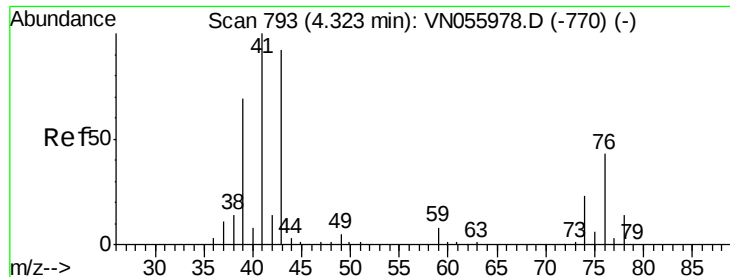
78 0.0 7.4 11.2#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

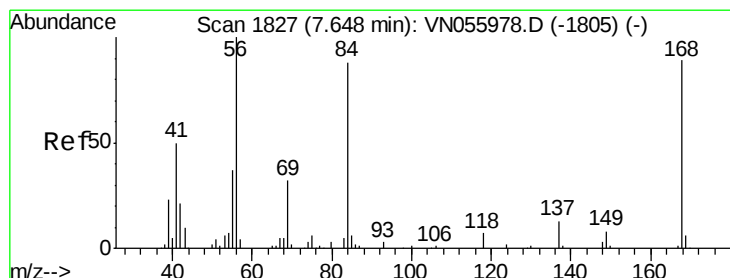
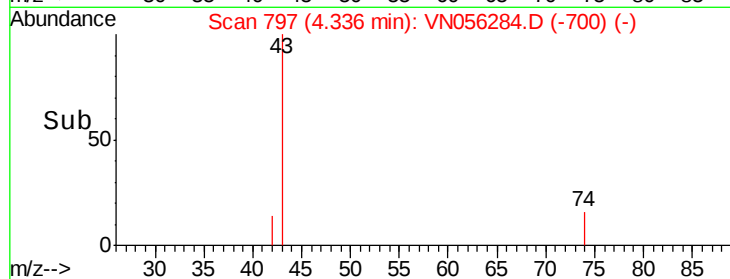
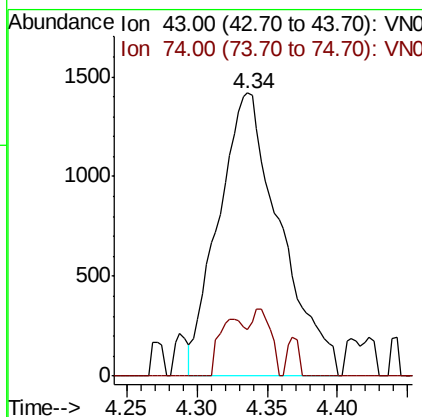
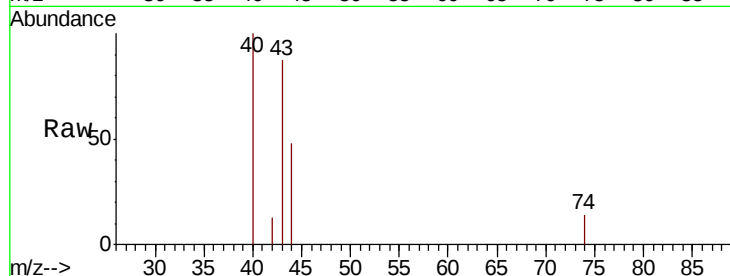




#18
Methvl Acetate
Concen: 0.786 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN056284.D
Acq: 13 Jun 2019 16:19

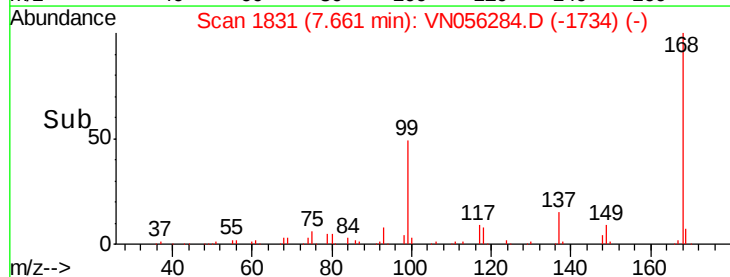
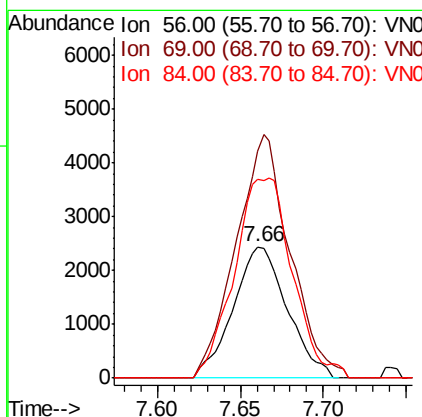
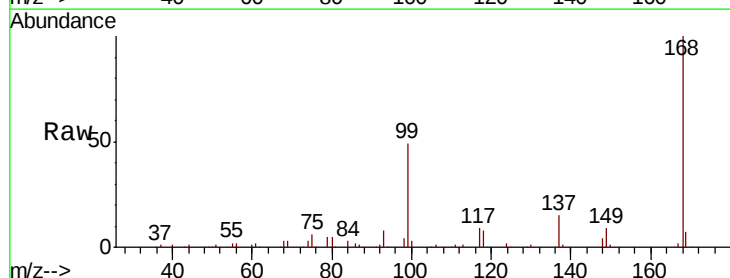
Instrument :
MSVOA_N
ClientSampleId :

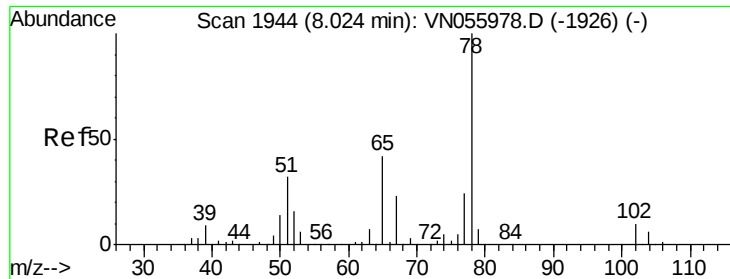
Tot Ion: 43 Resp: 4335
Ion Ratio Lower Upper
43 100
74 7.3 19.3 28.9#



#31
Cyclohexane
Concen: 1.024 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN056284.D
Acq: 13 Jun 2019 16:19

Tgt Ion: 56 Resp: 5532
Ion Ratio Lower Upper
56 100
69 172.7 25.6 38.4#
84 151.9 67.4 101.0#

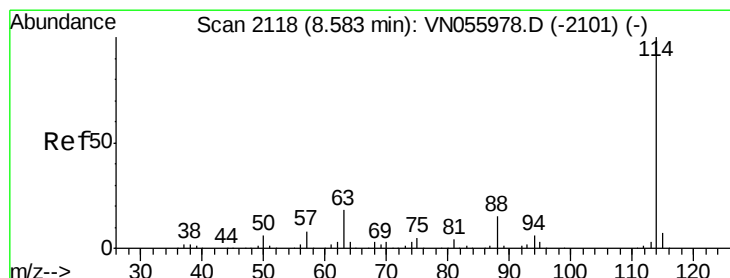
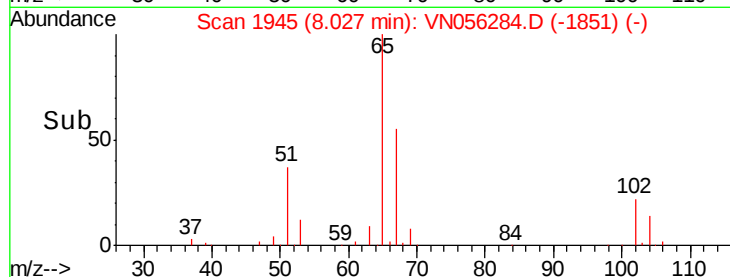
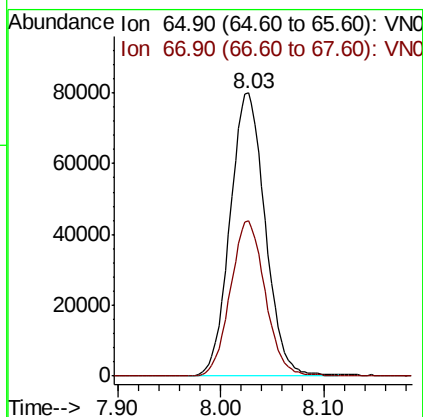
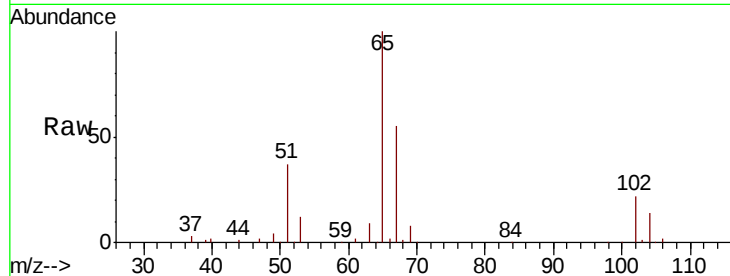




#33
 1,2-Dichloroethane-d4
 Concen: 55.770 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN056284.D
 Acq: 13 Jun 2019 16:19

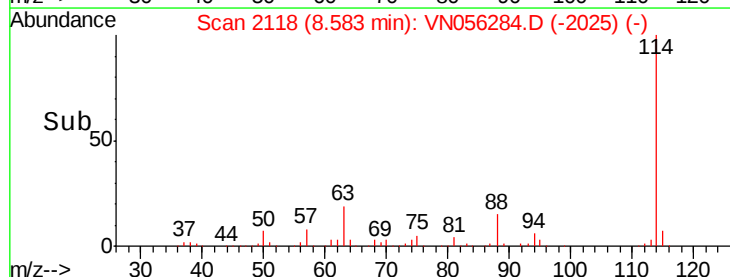
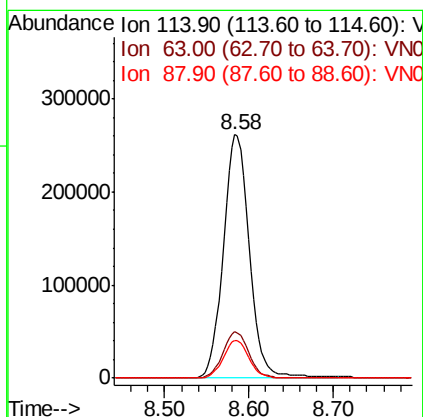
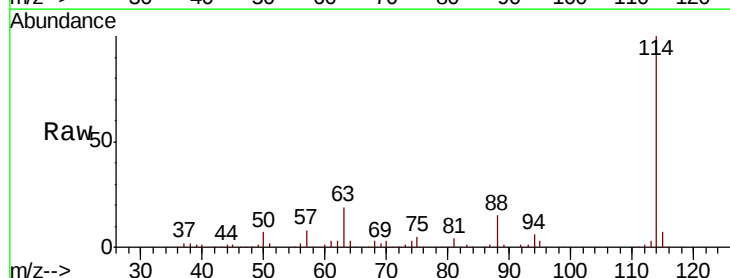
Instrument :
 MSVOA_N
 ClientSampleId :

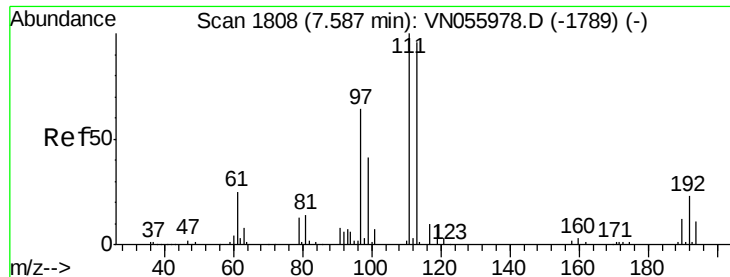
Tot Ion: 65 Resp: 189848
 Ion Ratio Lower Upper
 65 100
 67 54.4 0.0 109.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN056284.D
 Acq: 13 Jun 2019 16:19

Tgt Ion: 114 Resp: 561468
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 39.2
 88 15.4 0.0 31.0

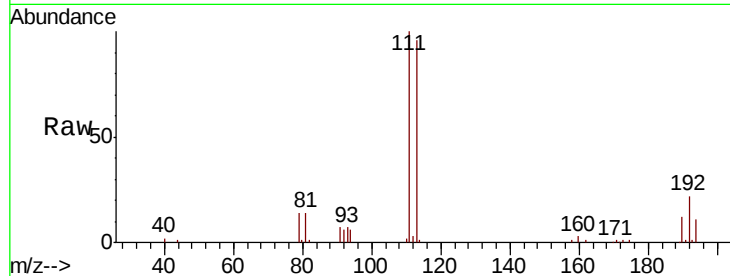




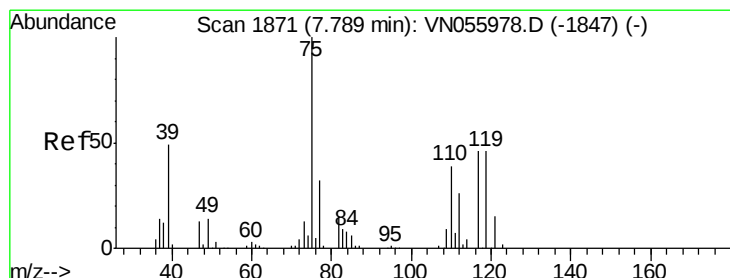
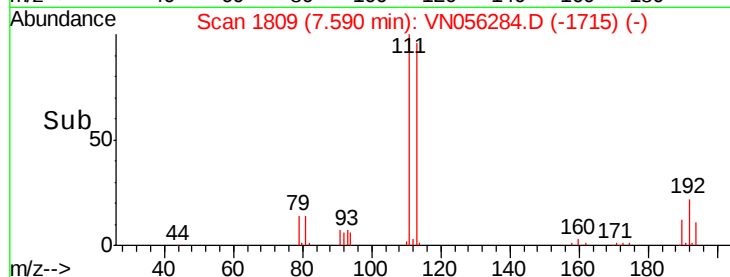
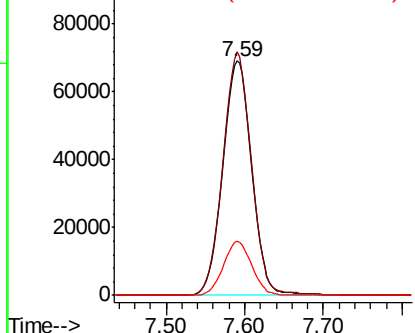
#35
 Dibromofluoromethane
 Concen: 50.872 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN056284.D
 Acq: 13 Jun 2019 16:19

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:113 Resp: 175244
 Ion Ratio Lower Upper
 113 100
 111 102.1 81.9 122.9
 192 22.5 19.5 29.3

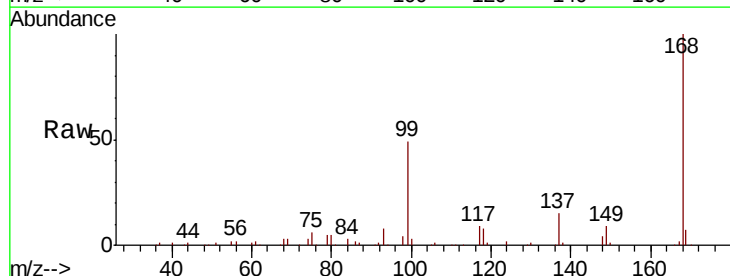


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

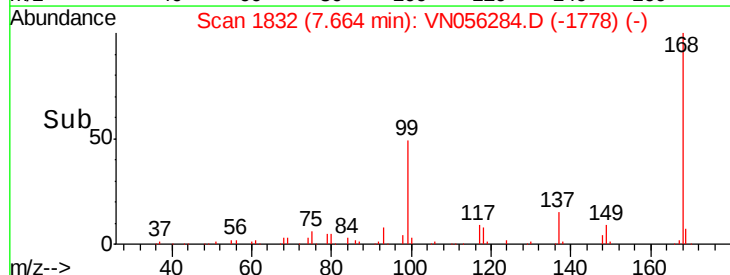
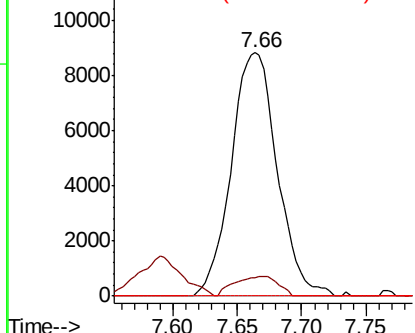


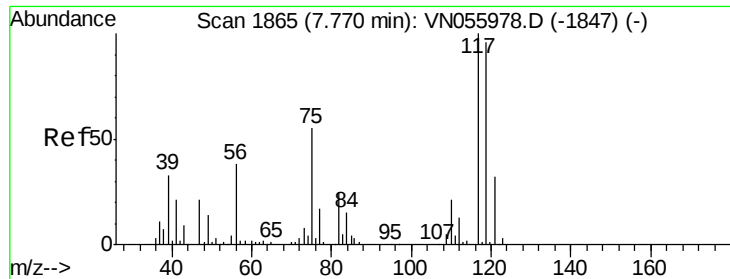
#36
 1,1-Dichloropropene
 Concen: 4.528 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN056284.D
 Acq: 13 Jun 2019 16:19

Tgt Ion: 75 Resp: 21862
 Ion Ratio Lower Upper
 75 100
 110 7.6 19.0 57.0#
 77 0.0 25.1 37.7#



Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): V

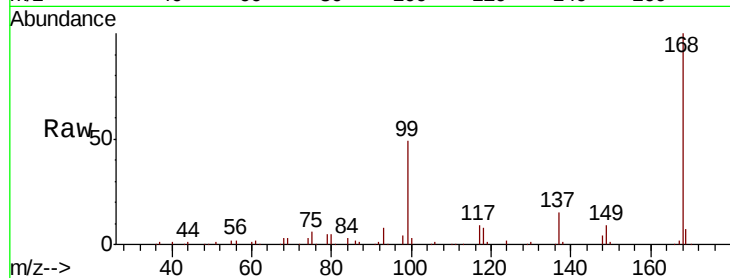




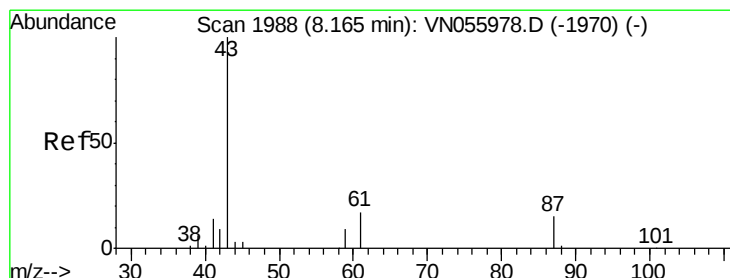
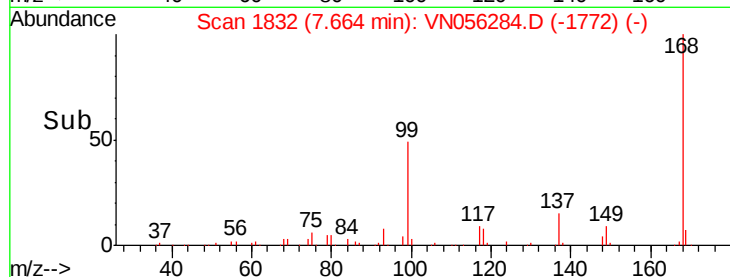
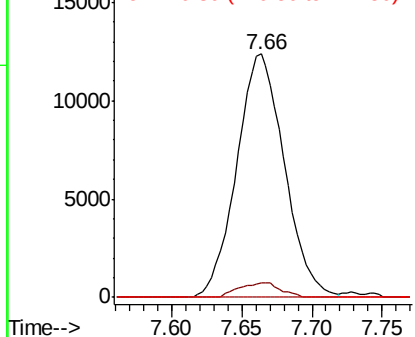
#38
Carbon Tetrachloride
Concen: 6.566 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. -0.11 min
Lab File: VN056284.D
Acq: 13 Jun 2019 16:19

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 29226
Ion Ratio Lower Upper
117 100
119 5.7 79.0 118.6#
121 0.0 24.7 37.1#

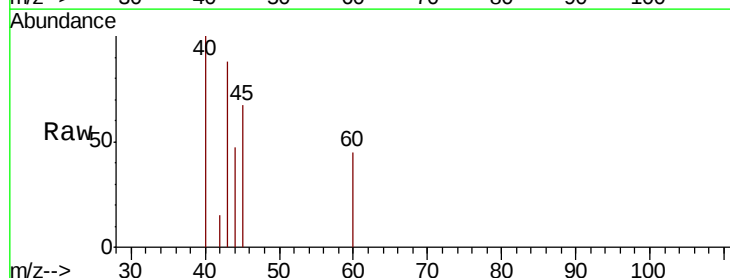


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

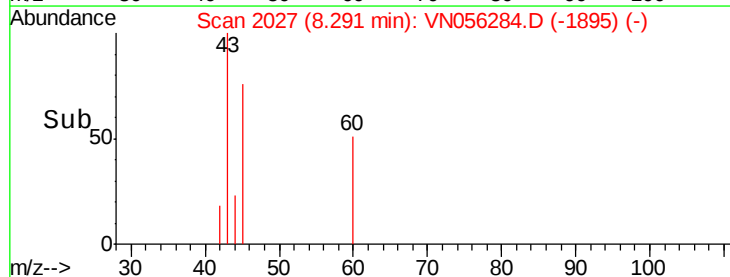
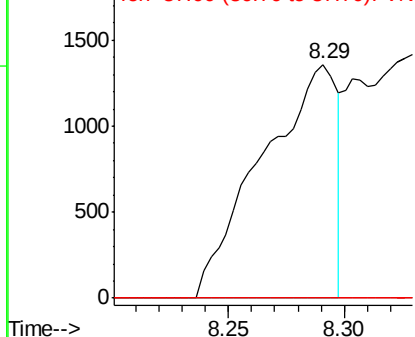


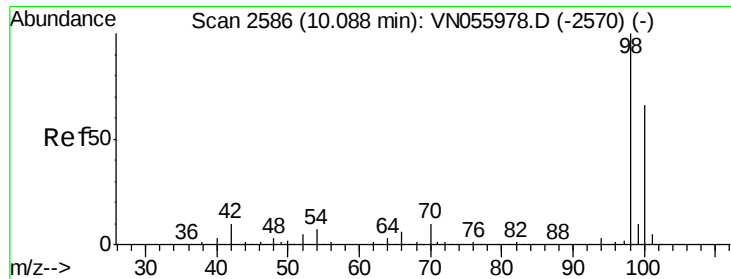
#43
Isopropyl Acetate
Concen: 0.439 ug/l
RT: 8.29 min Scan# 2027
Delta R.T. 0.13 min
Lab File: VN056284.D
Acq: 13 Jun 2019 16:19

Tgt Ion: 43 Resp: 3055
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: 51.703 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056284.D

Acq: 13 Jun 2019 16:19

Instrument :

MSVOA_N

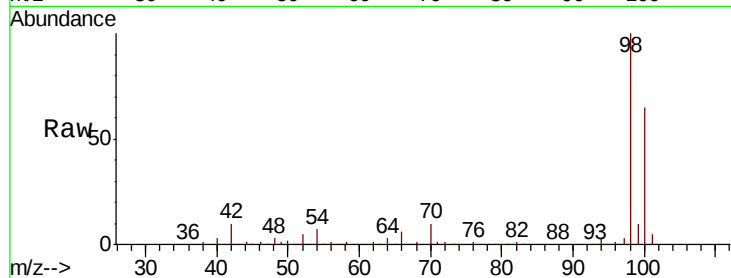
ClientSampled :

Tot Ion: 98 Resp: 685348

Ion Ratio Lower Upper

98 100

100 64.1 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN055978.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN055978.D (-2570) (-)

10.09

400000

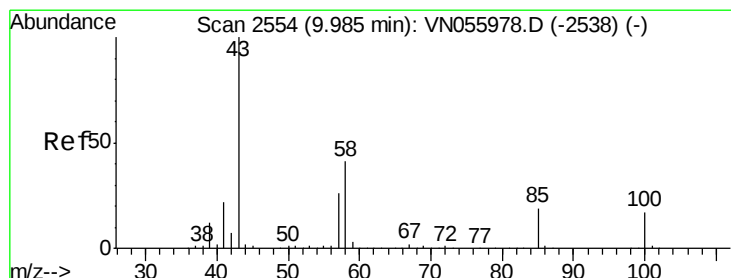
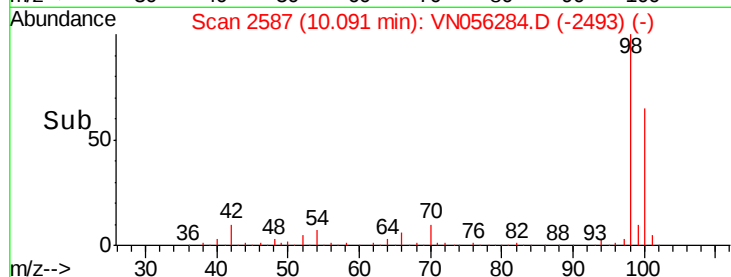
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.358 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN056284.D

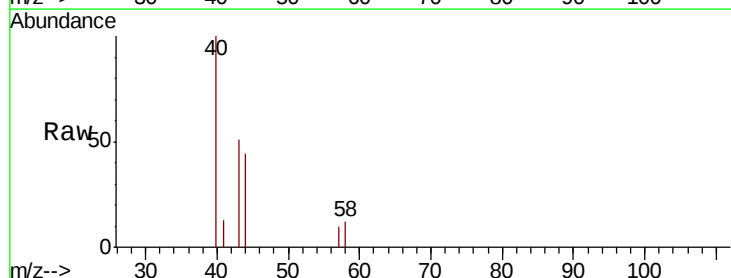
Acq: 13 Jun 2019 16:19

Tgt Ion: 43 Resp: 1559

Ion Ratio Lower Upper

43 100

58 12.4 32.1 48.1#



Abundance Ion 43.00 (42.70 to 43.70): VN055978.D (-2538) (-)

Ion 58.00 (57.70 to 58.70): VN055978.D (-2538) (-)

9.99

800

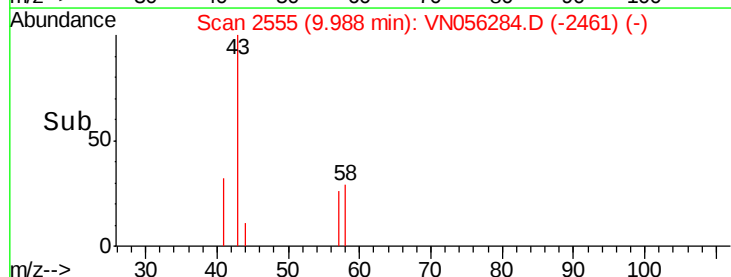
600

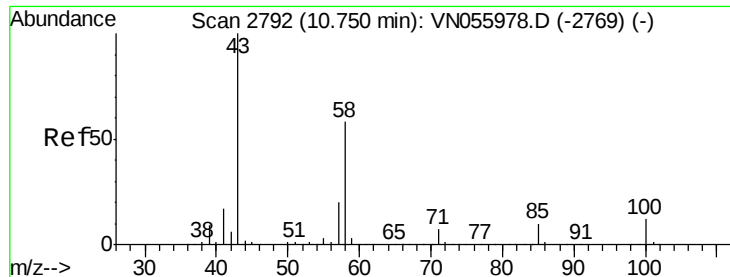
400

200

0

Time-->

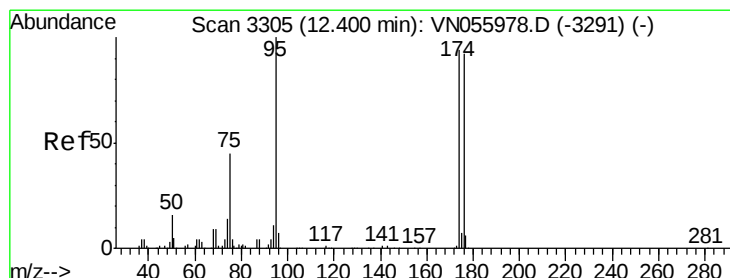
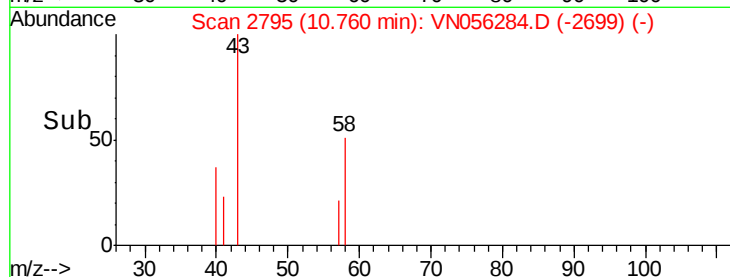
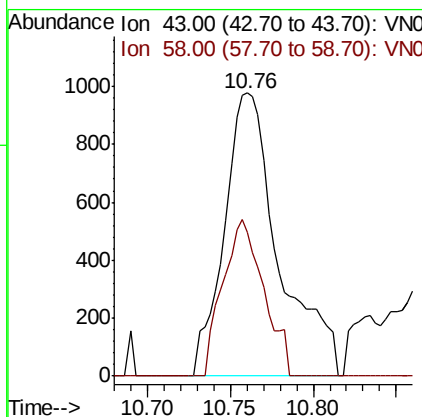
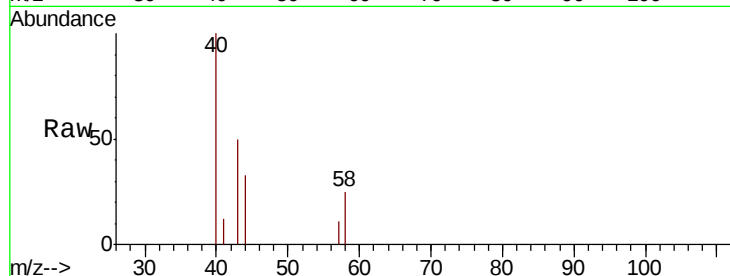




#59
2-Hexanone
Concen: 0.710 ug/l
RT: 10.76 min Scan# 2795
Delta R.T. 0.01 min
Lab File: VN056284.D
Acq: 13 Jun 2019 16:19

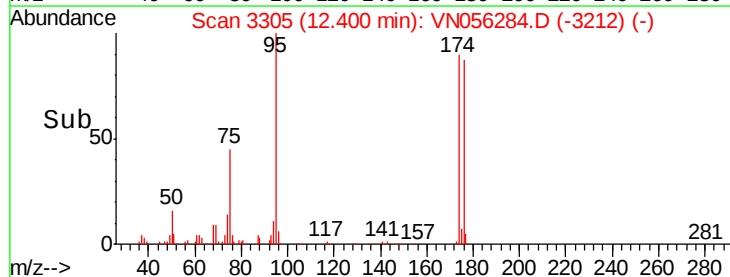
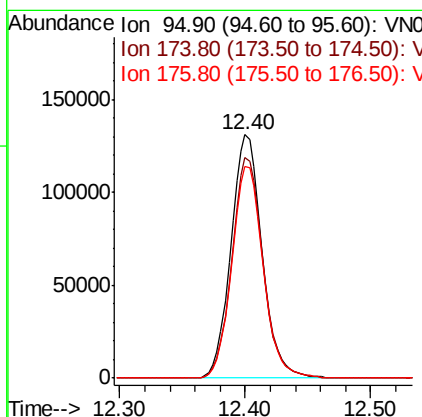
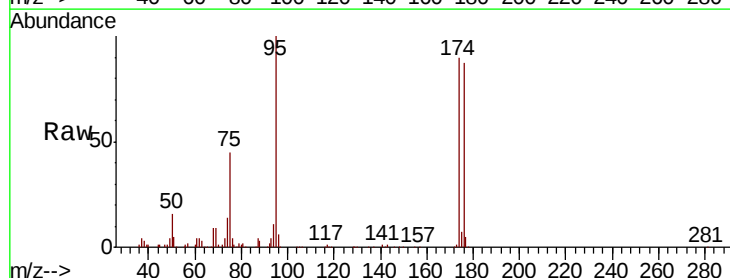
Instrument :
MSVOA_N
ClientSampled :

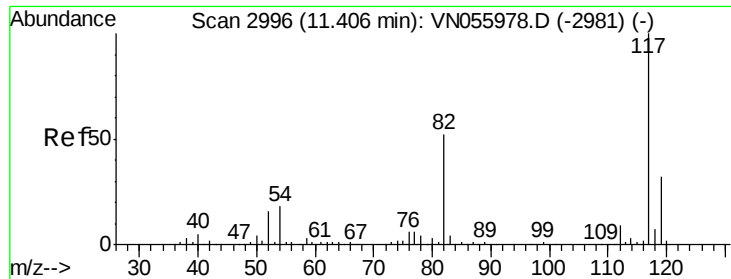
Tot Ion: 43 Resp: 2240
Ion Ratio Lower Upper
43 100
58 41.4 28.2 84.7



#62
4-Bromofluorobenzene
Concen: 49.908 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN056284.D
Acq: 13 Jun 2019 16:19

Tgt Ion: 95 Resp: 224978
Ion Ratio Lower Upper
95 100
174 91.1 0.0 191.0
176 88.1 0.0 185.2

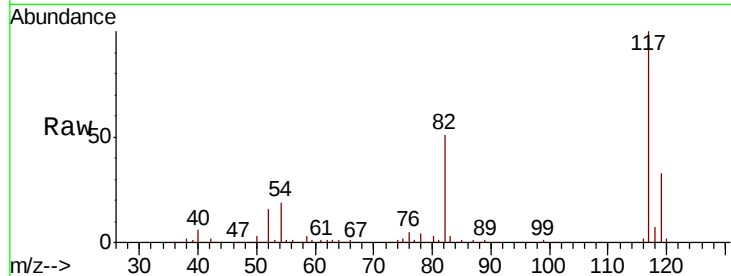




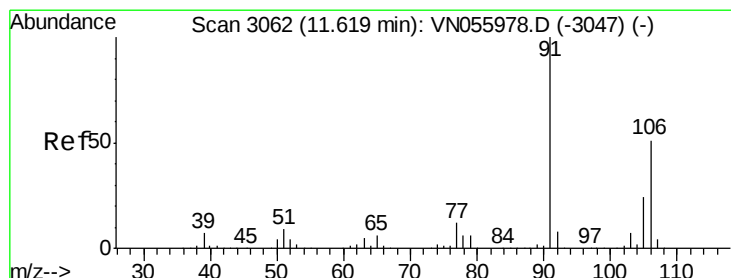
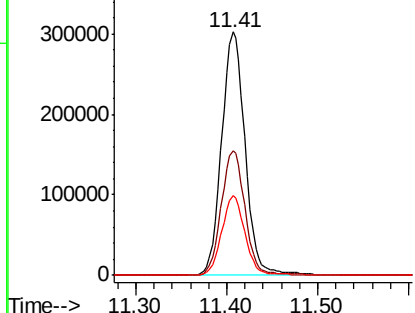
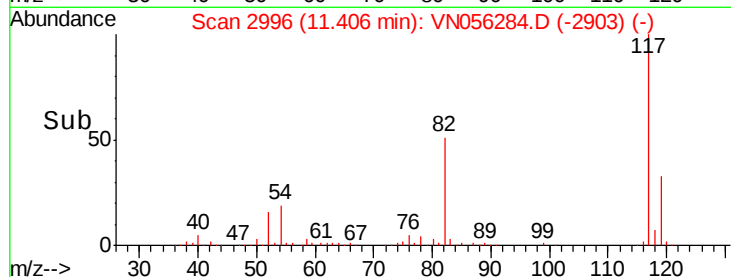
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN056284.D
Acq: 13 Jun 2019 16:19

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 542985
Ion Ratio Lower Upper
117 100
82 51.4 41.8 62.8
119 32.6 25.4 38.0

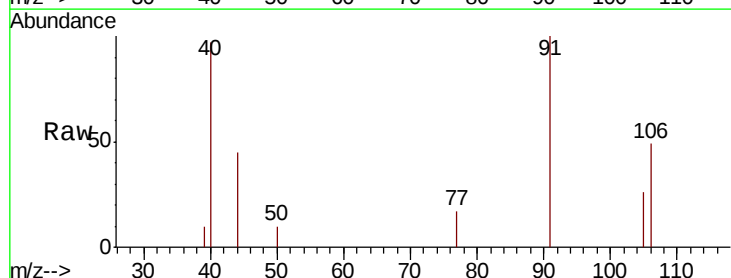


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

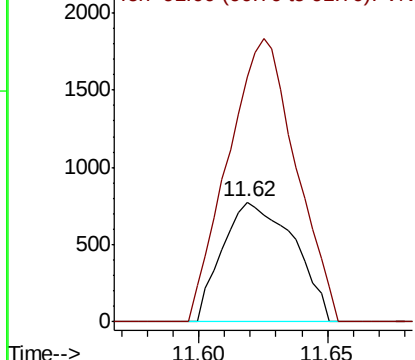
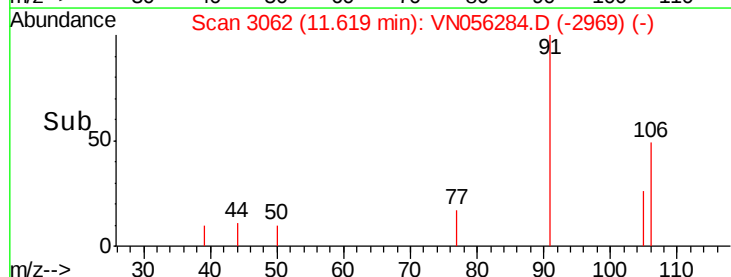


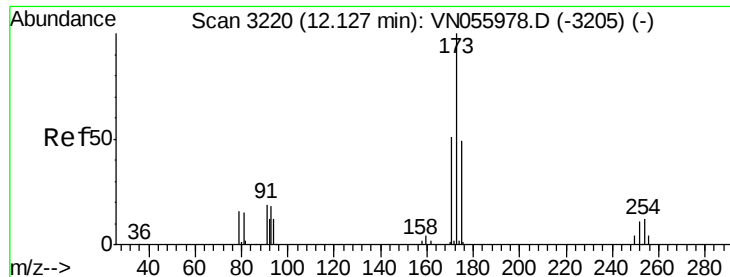
#68
m/p-Xylenes
Concen: 0.209 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN056284.D
Acq: 13 Jun 2019 16:19

Tgt Ion:106 Resp: 1499
Ion Ratio Lower Upper
106 100
91 223.8 159.3 238.9



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN





#71

Bromoform

Concen: 3.201 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN056284.D

Acq: 13 Jun 2019 16:19

Instrument :

MSVOA_N

ClientSampled :

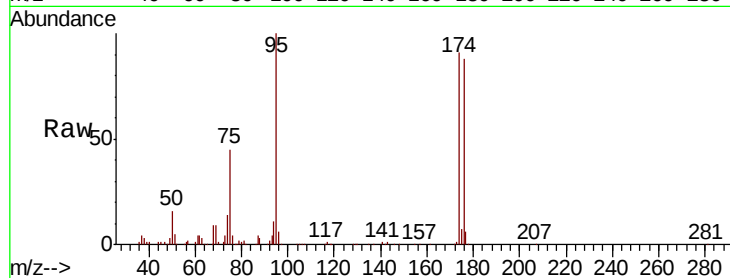
Tot Ion:173 Resp: 1522

Ion Ratio Lower Upper

173 100

175 828.7 24.3 72.8#

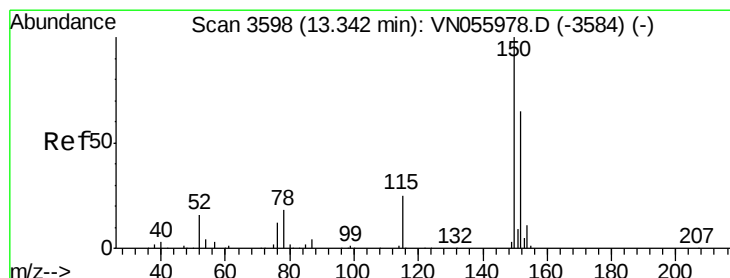
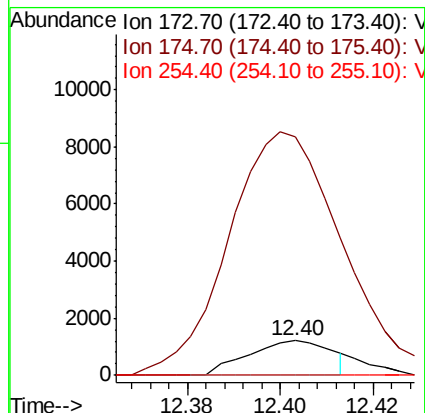
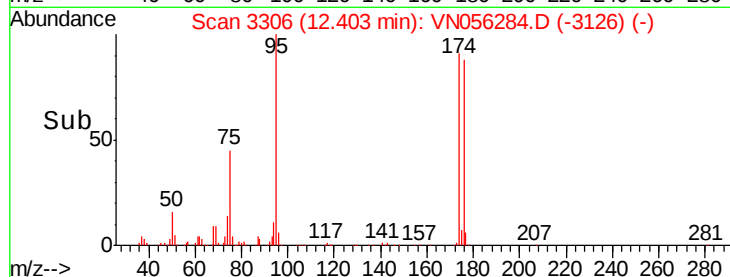
254 0.0 0.0 0.0



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: VN056284.D

Acq: 13 Jun 2019 16:19

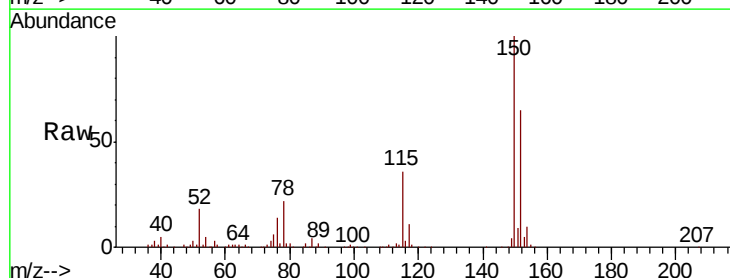
Tgt Ion:152 Resp: 170430

Ion Ratio Lower Upper

152 100

115 55.3 27.0 81.0

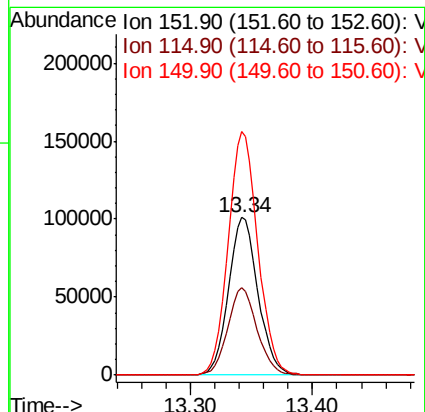
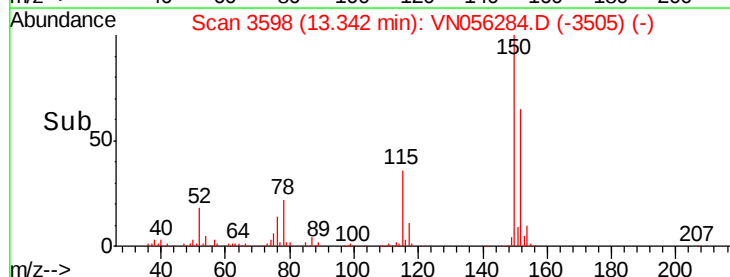
150 155.2 0.0 343.2

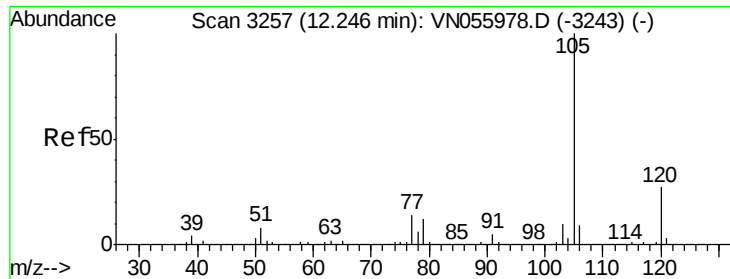


Abundance Ion 151.90 (151.60 to 152.60): V

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: VN056284.D

Acq: 13 Jun 2019 16:19

Instrument :

MSVOA_N

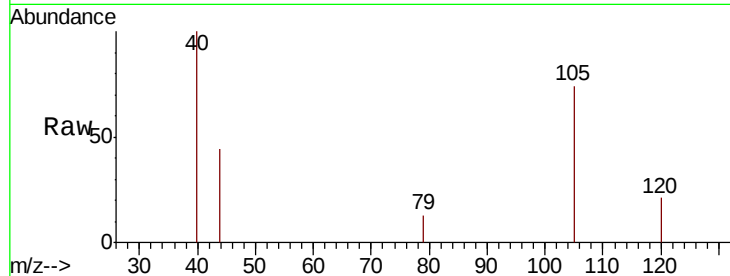
ClientSampleId :

Tot Ion: 105 Resp: 1696

Ion Ratio Lower Upper

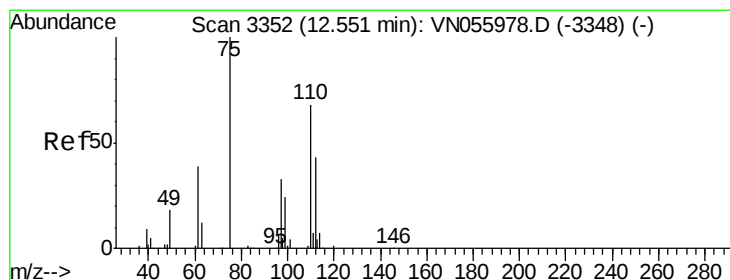
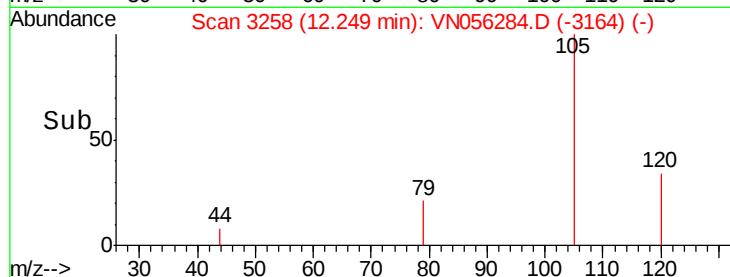
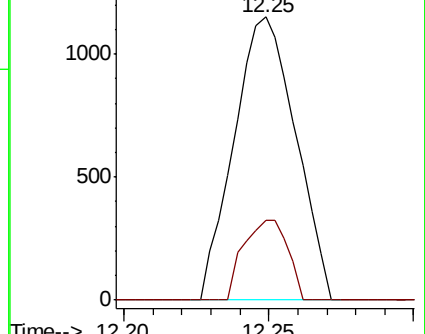
105 100

120 20.2 13.6 40.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#76

1,2,3-Trichloropropane

Concen: 32.822 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056284.D

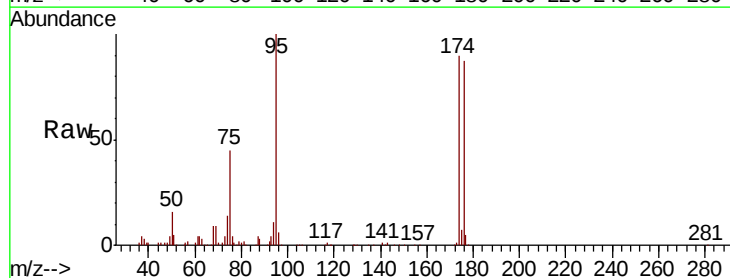
Acq: 13 Jun 2019 16:19

Tgt Ion: 75 Resp: 102928

Ion Ratio Lower Upper

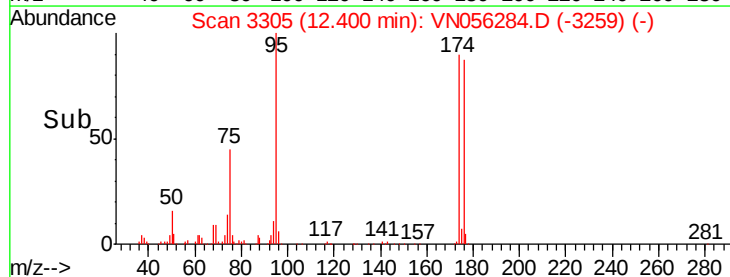
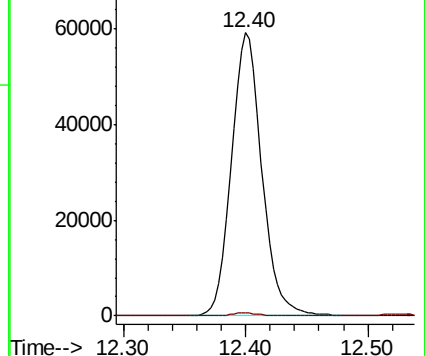
75 100

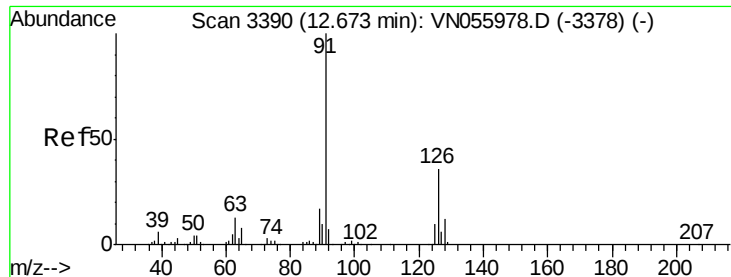
77 0.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN056284.D

Acq: 13 Jun 2019 16:19

Instrument :

MSVOA_N

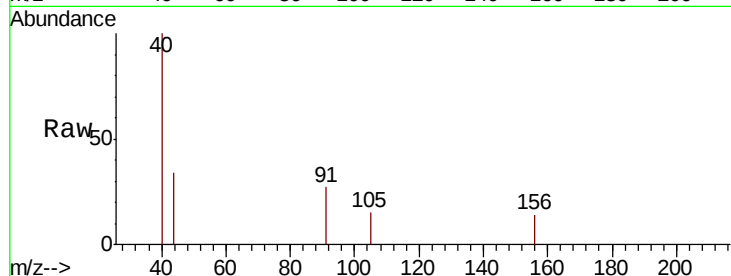
ClientSampled :

Tot Ion: 91 Resp: 860

Ion Ratio Lower Upper

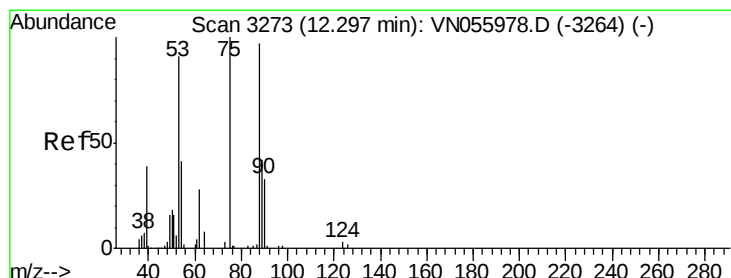
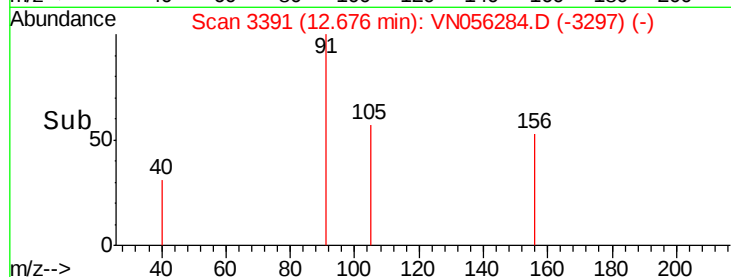
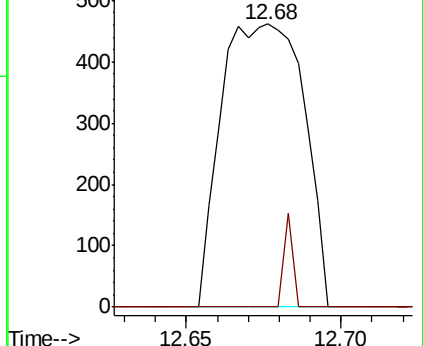
91 100

126 3.5 18.1 54.4#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V



#81

trans-1,4-Dichloro-2-butene

Concen: 109.302 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056284.D

Acq: 13 Jun 2019 16:19

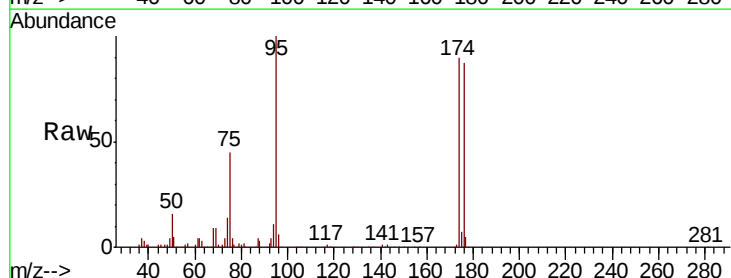
Tgt Ion: 75 Resp: 102928

Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

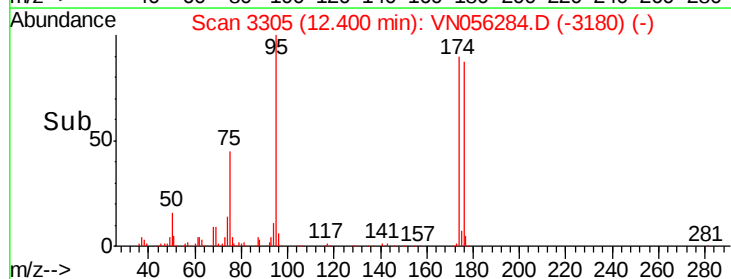
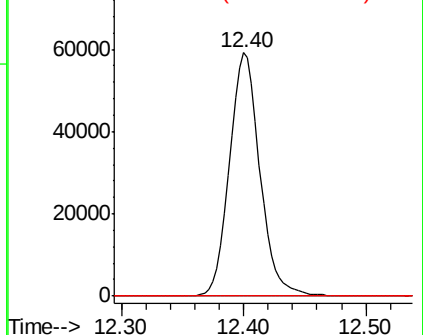
89 0.0 36.9 55.3#

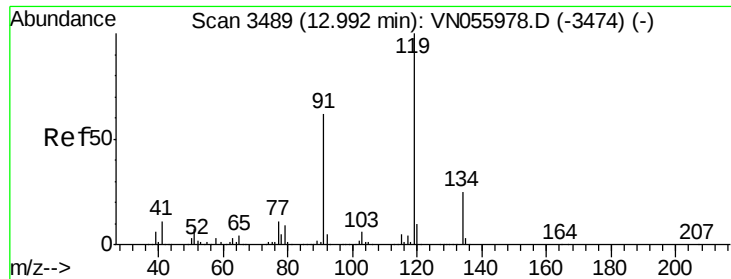


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

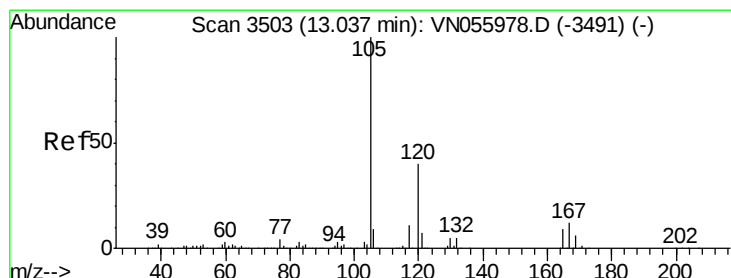
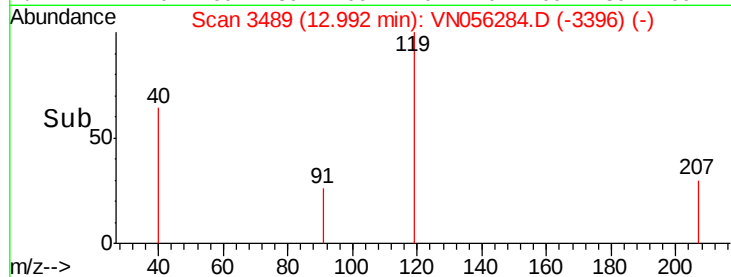
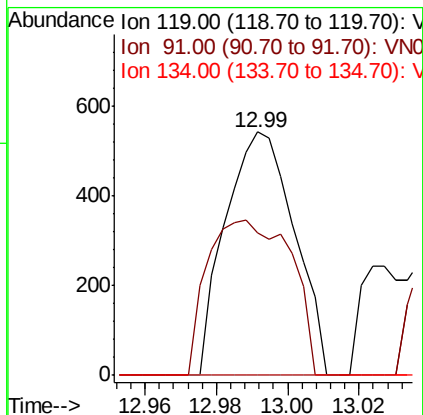
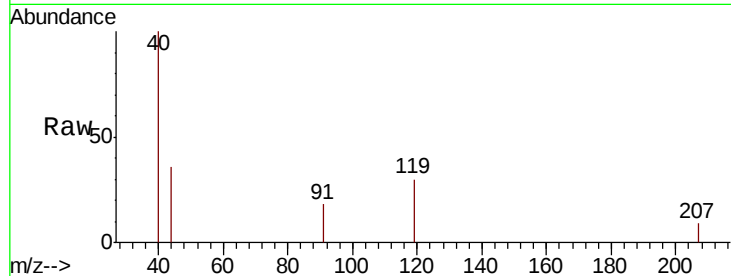




#83
tert-Butylbenzene
Concen: Below Cal
RT: 12.99 min Scan# 3489
Delta R.T. 0.00 min
Lab File: VN056284.D
Acq: 13 Jun 2019 16:19

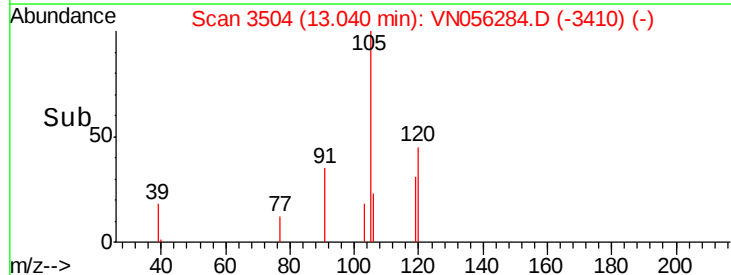
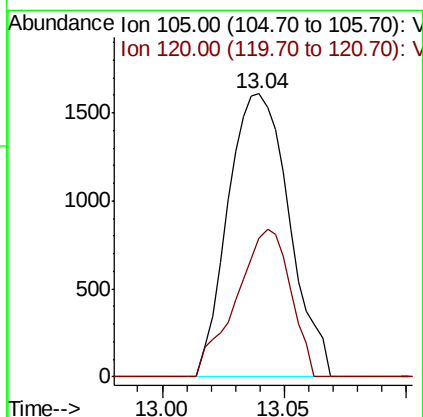
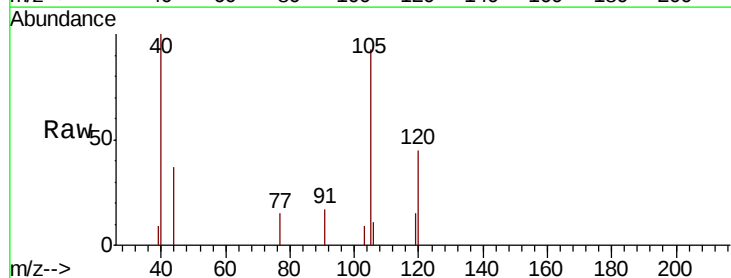
Instrument :
MSVOA_N
ClientSampled :

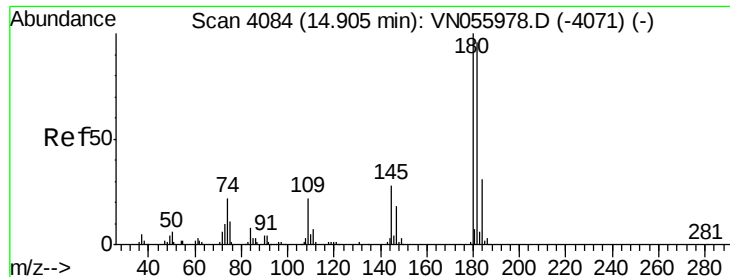
Tot Ion:119 Resp: 723
Ion Ratio Lower Upper
119 100
91 77.5 30.9 92.8
134 0.0 13.3 39.8#



#84
1,2,4-Trimethylbenzene
Concen: 0.258 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN056284.D
Acq: 13 Jun 2019 16:19

Tgt Ion:105 Resp: 2801
Ion Ratio Lower Upper
105 100
120 46.2 23.0 69.0

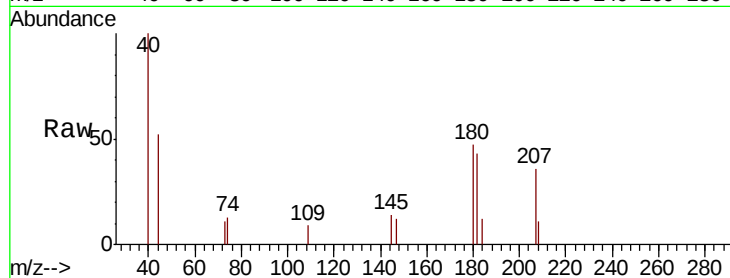




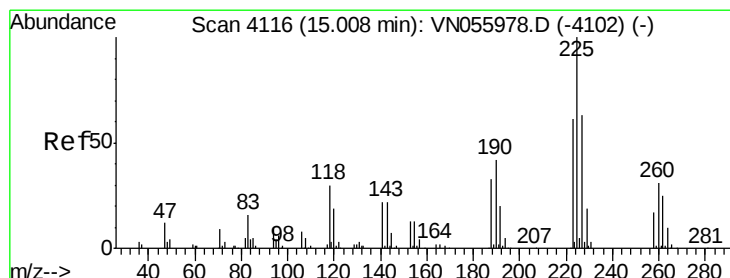
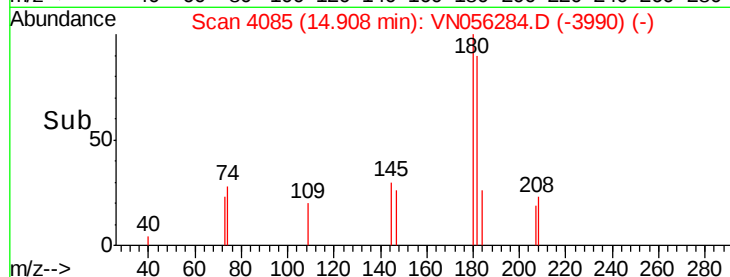
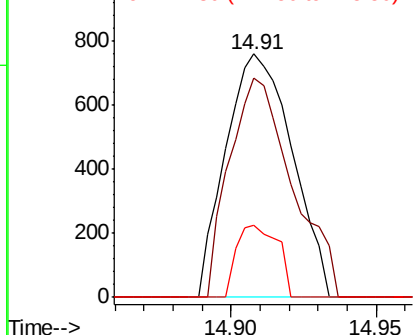
#93
 1,2,4-Trichlorobenzene
 Concen: 4.621 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN056284.D
 Acq: 13 Jun 2019 16:19

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:180 Resp: 1208
 Ion Ratio Lower Upper
 180 100
 182 85.2 48.3 144.9
 145 18.4 14.0 41.9

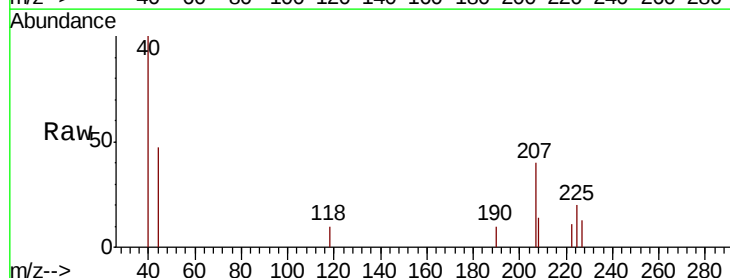


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

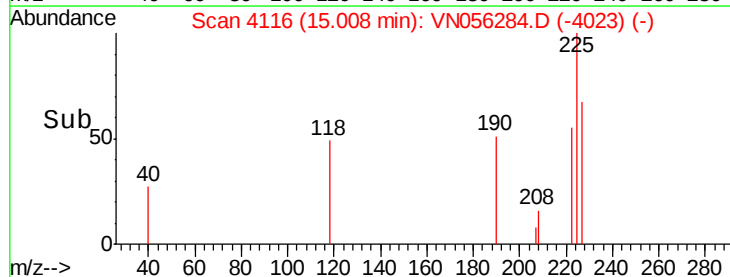
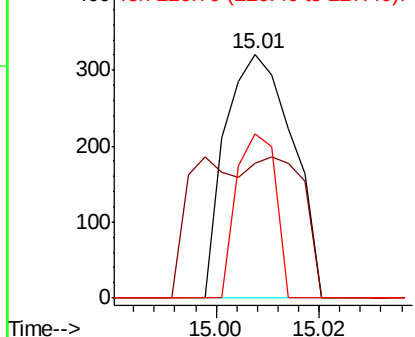


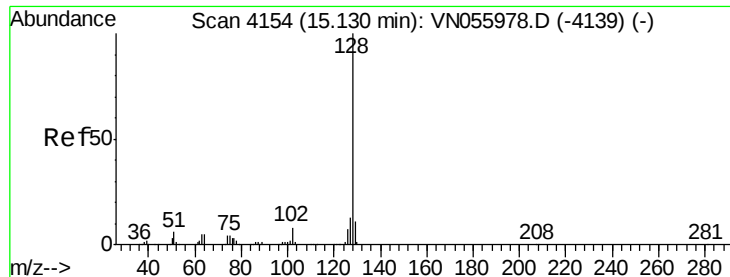
#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN056284.D
 Acq: 13 Jun 2019 16:19

Tgt Ion:225 Resp: 289
 Ion Ratio Lower Upper
 225 100
 223 45.0 30.9 92.7
 227 39.4 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: 4.524 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN056284.D

Acq: 13 Jun 2019 16:19

Instrument :

MSVOA_N

ClientSampled :

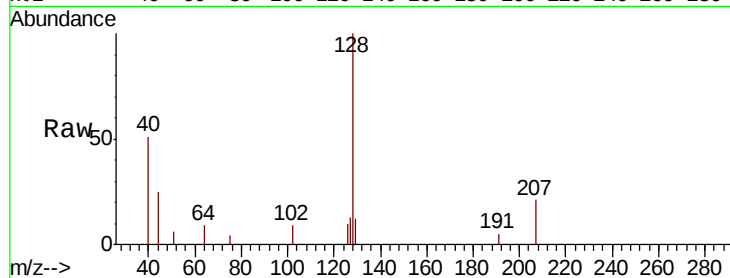
Tot Ion:128 Resp: 5938

Ion Ratio Lower Upper

128 100

127 12.7 10.3 15.5

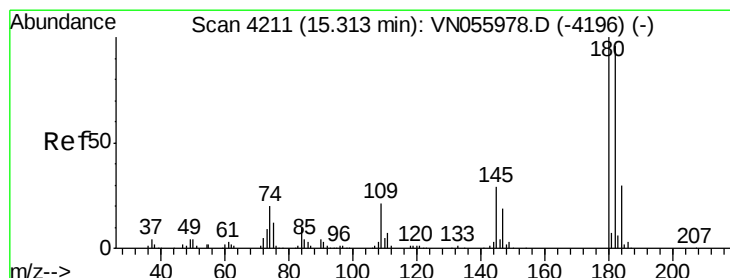
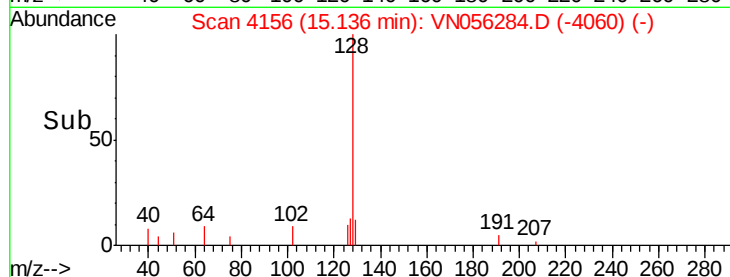
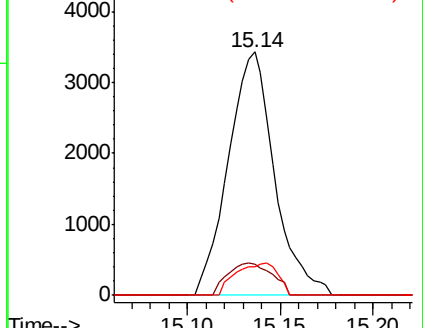
129 11.9 8.7 13.1



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: 3.524 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN056284.D

Acq: 13 Jun 2019 16:19

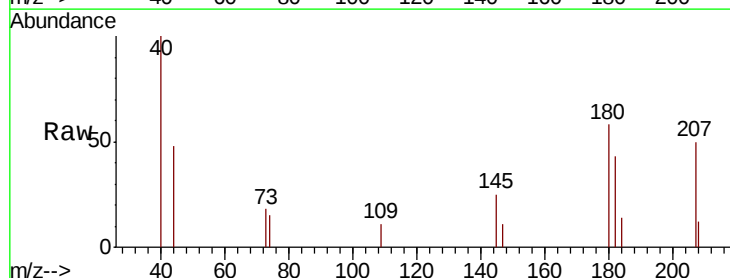
Tgt Ion:180 Resp: 1679

Ion Ratio Lower Upper

180 100

182 82.1 47.9 143.7

145 27.7 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

