

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091519\
 Data File : VN058092.D
 Acq On : 15 Sep 2019 15:22
 Operator : JC/SP
 Sample : K4695-26
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 16 03:41:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	317176	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	537062	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	494295	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	262034	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	375576	58.46	ug/l	0.00
Spiked Amount			Recovery	=	116.92%	
35) Dibromofluoromethane	7.58	113	257297	51.91	ug/l	0.00
Spiked Amount			Recovery	=	103.82%	
50) Toluene-d8	10.08	98	1010987	52.53	ug/l	0.00
Spiked Amount			Recovery	=	105.06%	
62) 4-Bromofluorobenzene	12.41	95	334758	45.64	ug/l	0.00
Spiked Amount			Recovery	=	91.28%	

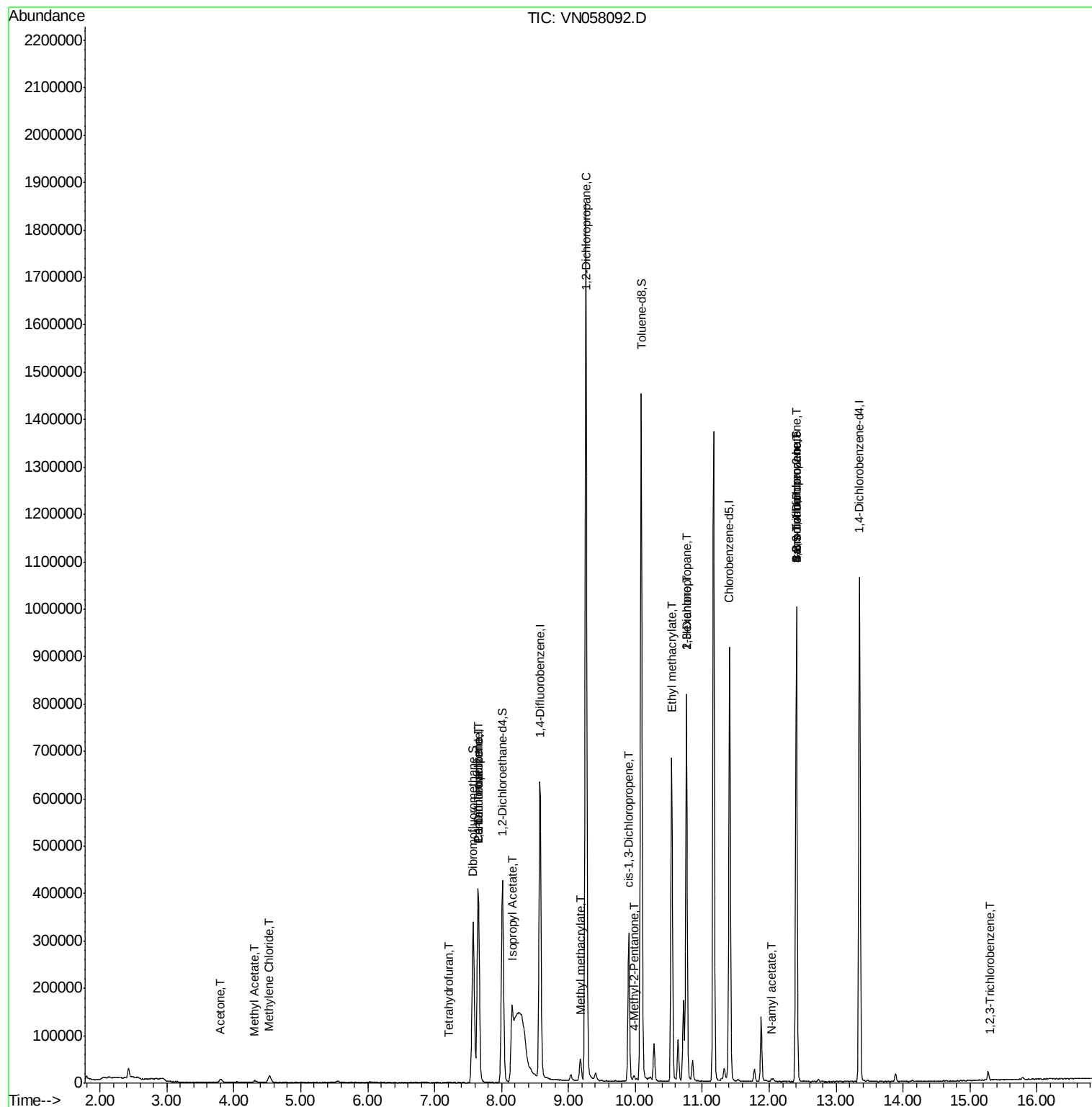
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.54	94	151	Below Cal	#	2
16) Acetone	3.80	43	13699	6.505	ug/l #	86
18) Methyl Acetate	4.31	43	8159	1.453	ug/l #	70
20) Methylene Chloride	4.53	84	10047	1.307	ug/l	92
29) Tetrahydrofuran	7.21	42	1219	0.649	ug/l #	40
31) Cyclohexane	7.65	56	8405	Below Cal	#	1
36) 1,1-Dichloropropene	7.65	75	27404	4.400	ug/l #	51
38) Carbon Tetrachloride	7.65	117	32434	5.704	ug/l #	15
43) Isopropyl Acetate	8.16	43	212140	19.603	ug/l #	77
45) 1,2-Dichloropropane	9.26	63	2064	0.378	ug/l #	44
48) Methyl methacrylate	9.18	41	7834	1.427	ug/l #	13
51) 4-Methyl-2-Pentanone	9.98	43	9442	1.474	ug/l	93
54) cis-1,3-Dichloropropene	9.90	75	52484	6.856	ug/l #	67
56) Ethyl methacrylate	10.54	69	2273	0.302	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	7924	0.919	ug/l #	43
59) 2-Hexanone	10.76	43	124053	25.844	ug/l #	53
71) Bromoform	12.40	173	1750	0.625	ug/l #	1
74) N-amyl acetate	12.03	43	5649	0.638	ug/l #	50
76) 1,2,3-Trichloropropane	12.41	75	184355	31.101	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	184355	109.444	ug/l #	6
95) Naphthalene	15.13	128	1014	Below Cal	#	82
96) 1,2,3-Trichlorobenzene	15.30	180	69	1.011	ug/l #	12

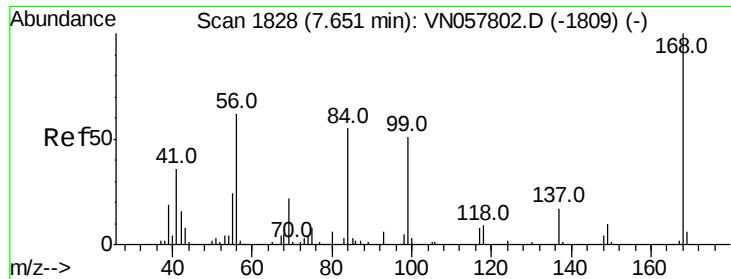
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058092.D

Acq: 15 Sep 2019 15:22

Instrument :

MSVOA_N

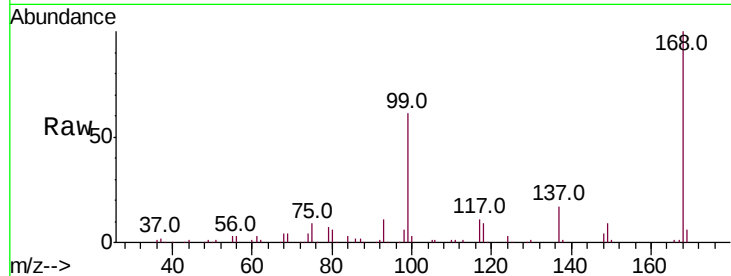
ClientSampled :

Tot Ion:168 Resp: 317176

Ion Ratio Lower Upper

168 100

99 61.0 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

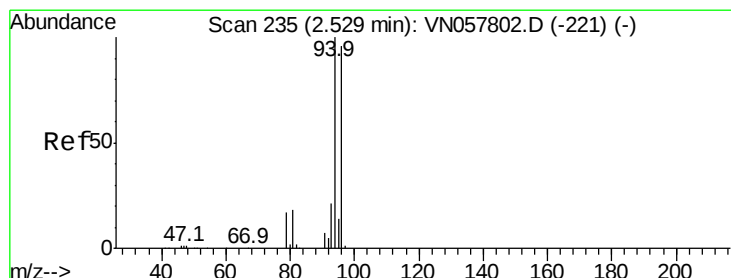
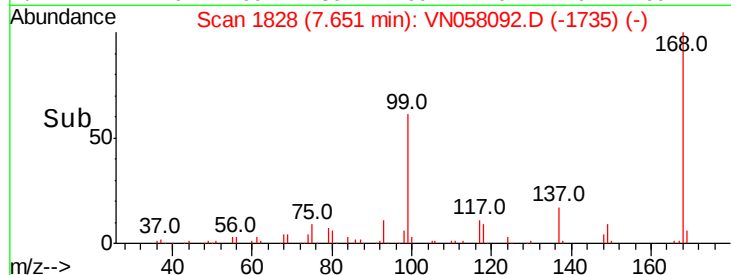
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.54 min Scan# 239

Delta R.T. 0.01 min

Lab File: VN058092.D

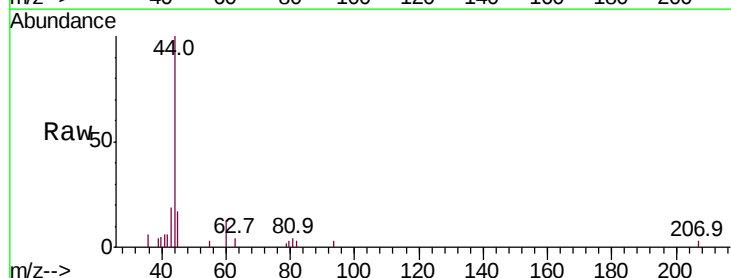
Acq: 15 Sep 2019 15:22

Tgt Ion: 94 Resp: 151

Ion Ratio Lower Upper

94 100

96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

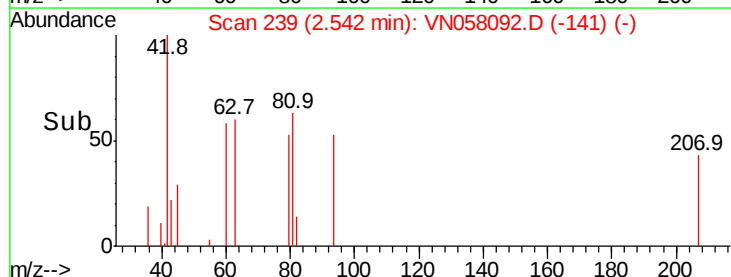
300

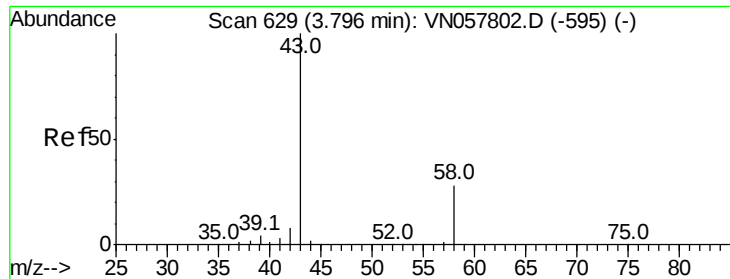
200

100

0

Time-->





#16

Acetone

Concen: 6.505 ug/l

RT: 3.80 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN058092.D

Acq: 15 Sep 2019 15:22

Instrument :

MSVOA_N

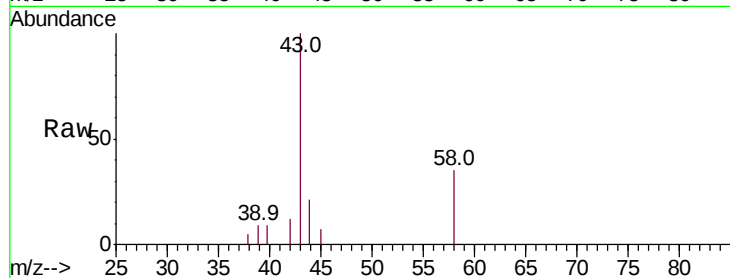
ClientSampled :

Tot Ion: 43 Resp: 13699

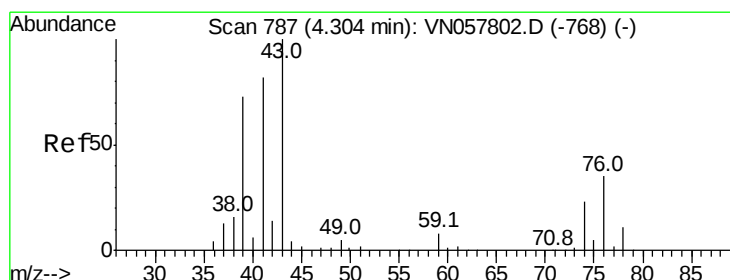
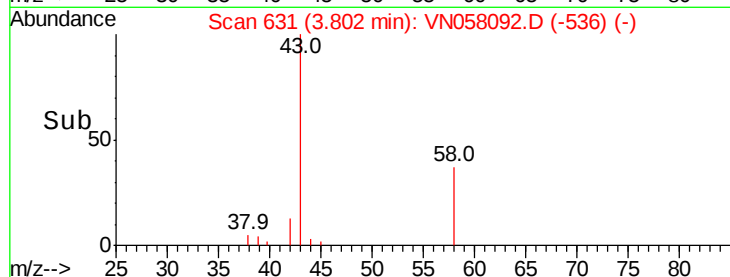
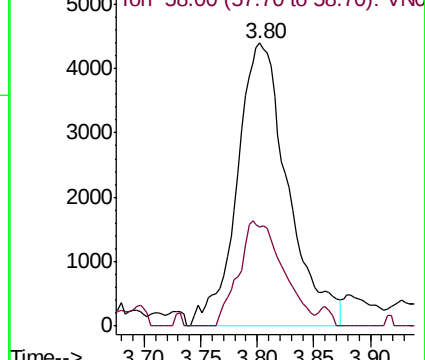
Ion Ratio Lower Upper

43 100

58 35.2 22.2 33.2#



Abundance Ion 43.00 (42.70 to 43.70): VN058092.D (-631) (-)



#18

Methyl Acetate

Concen: 1.453 ug/l

RT: 4.31 min Scan# 790

Delta R.T. 0.01 min

Lab File: VN058092.D

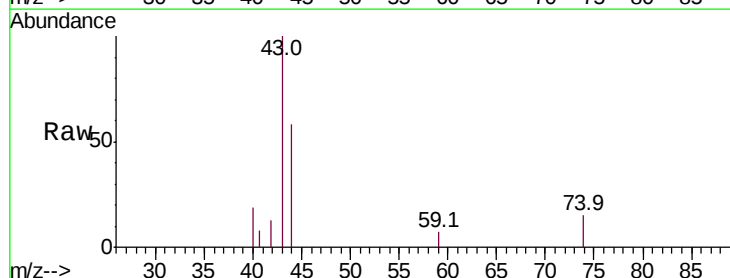
Acq: 15 Sep 2019 15:22

Tgt Ion: 43 Resp: 8159

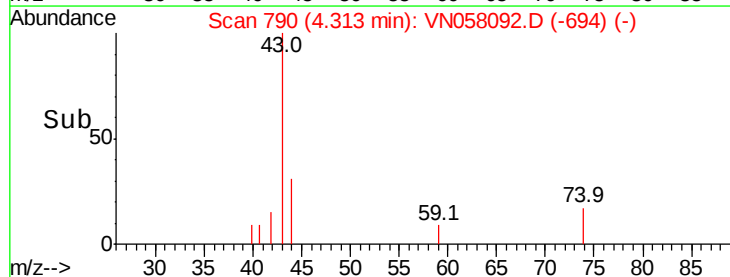
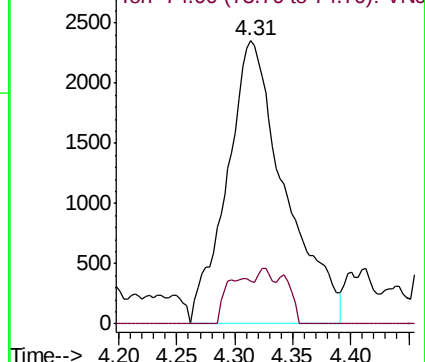
Ion Ratio Lower Upper

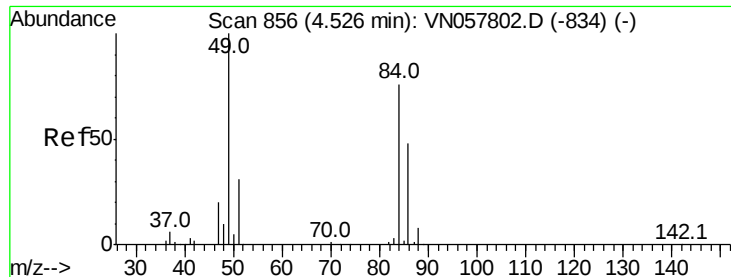
43 100

74 8.0 17.9 26.9#



Abundance Ion 43.00 (42.70 to 43.70): VN058092.D (-790) (-)

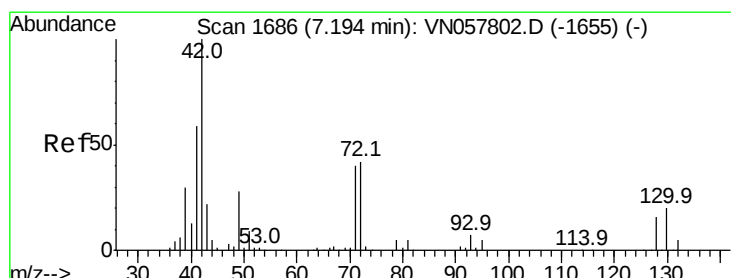
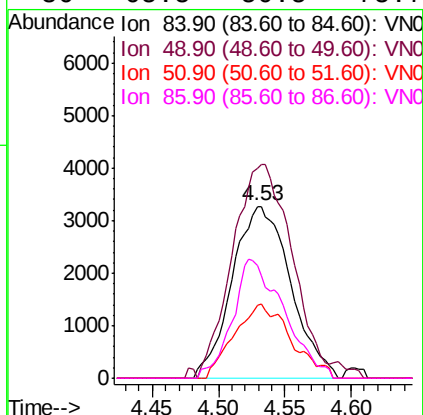
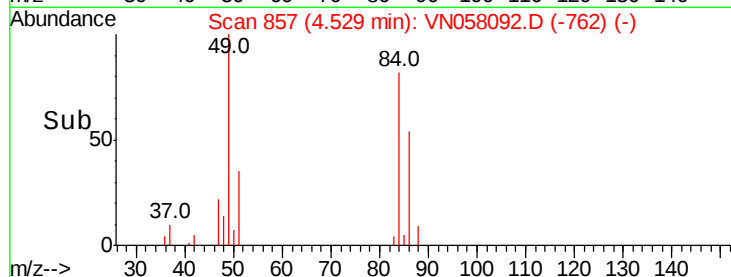
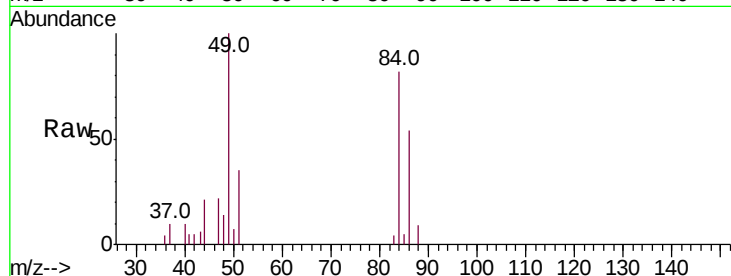




#20
Methvlene Chloride
Concen: 1.307 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.00 min
Lab File: VN058092.D
Acq: 15 Sep 2019 15:22

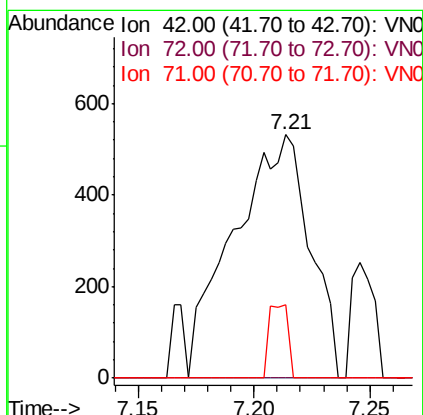
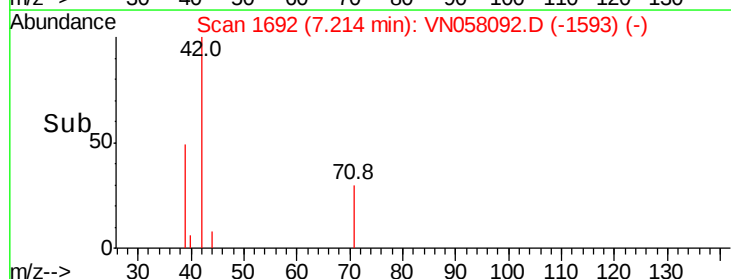
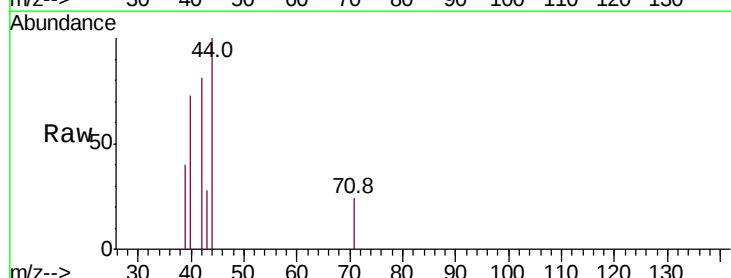
Instrument :
MSVOA_N
ClientSampleId :

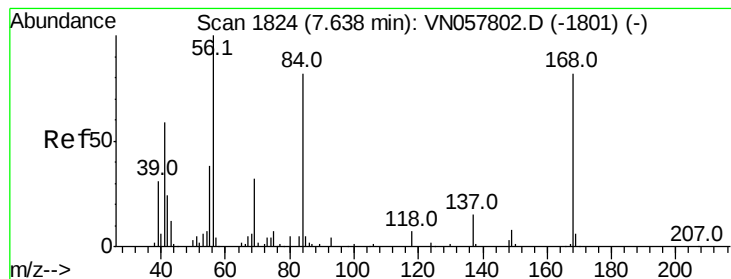
Tot Ion:	84	Resp:	10047
Ion	Ratio	Lower	Upper
84	100		
49	115.7	104.8	157.2
51	42.1	33.0	49.4
86	65.5	50.5	75.7



#29
Tetrahydrofuran
Concen: 0.649 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.02 min
Lab File: VN058092.D
Acq: 15 Sep 2019 15:22

Tgt Ion:	42	Resp:	1219
Ion	Ratio	Lower	Upper
42	100		
72	0.0	33.7	50.5#
71	7.5	31.9	47.9#





#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VN058092.D

Acq: 15 Sep 2019 15:22

Instrument :
MSVOA_N
ClientSampleId :

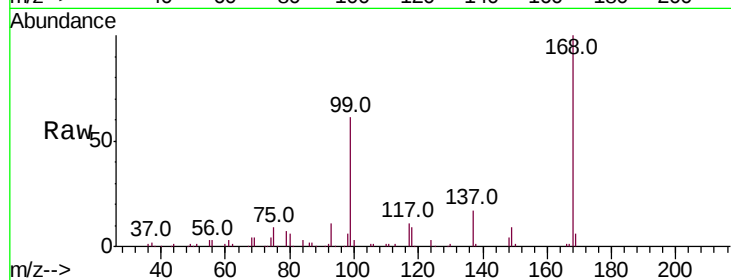
Tot Ion: 56 Resp: 8405

Ion Ratio Lower Upper

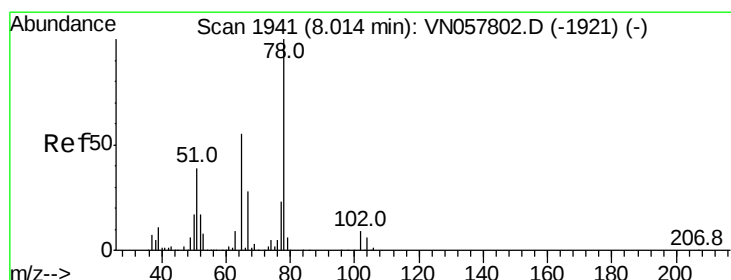
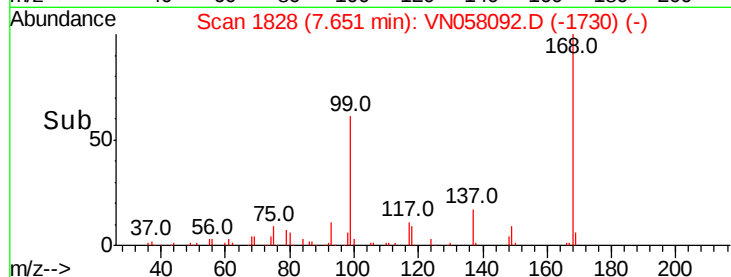
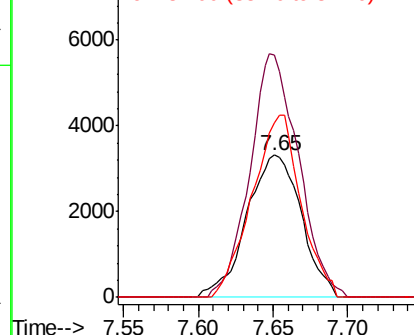
56 100

69 170.5 25.9 38.9#

84 122.6 65.6 98.4#



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



#33

1,2-Dichloroethane-d4

Concen: 58.463 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. -0.00 min

Lab File: VN058092.D

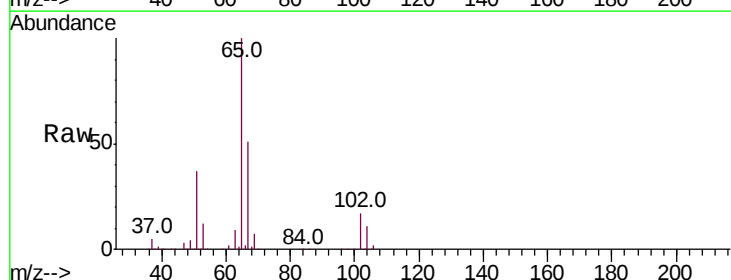
Acq: 15 Sep 2019 15:22

Tgt Ion: 65 Resp: 375576

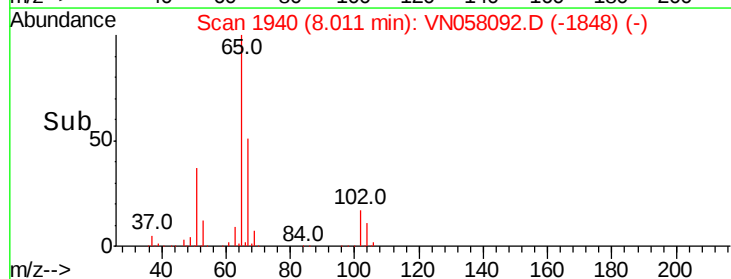
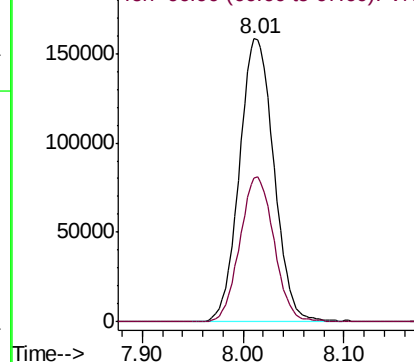
Ion Ratio Lower Upper

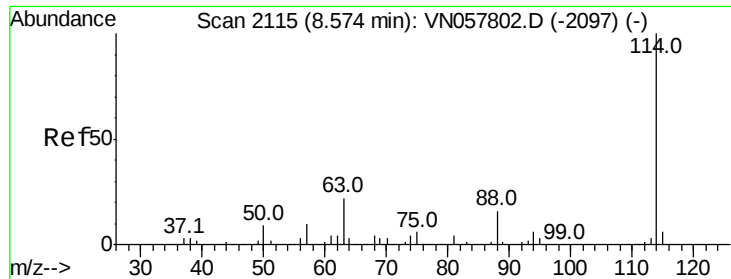
65 100

67 50.7 0.0 104.0



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

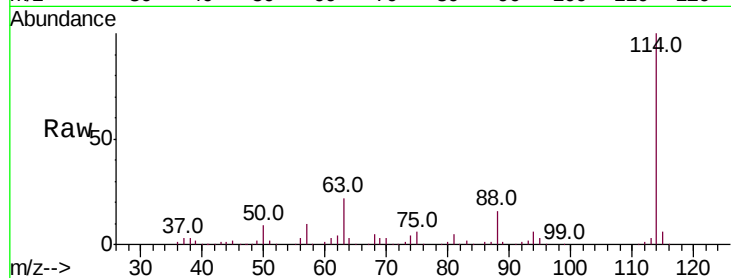




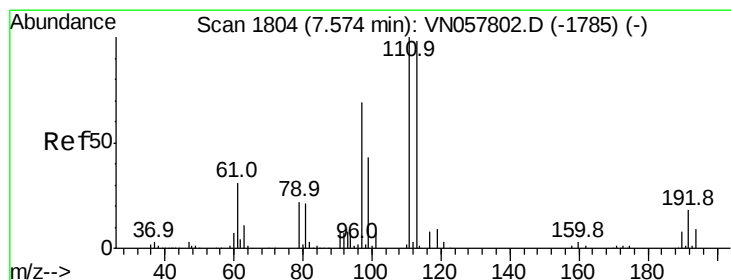
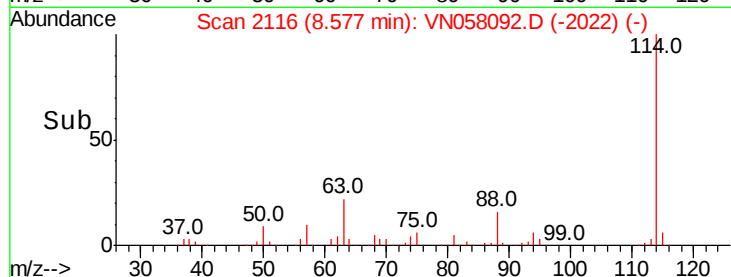
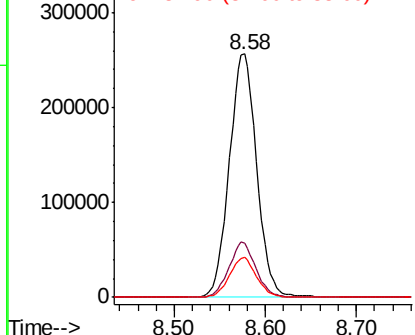
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN058092.D
 Acq: 15 Sep 2019 15:22

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 537062
 Ion Ratio Lower Upper
 114 100
 63 22.3 0.0 44.0
 88 16.3 0.0 31.4

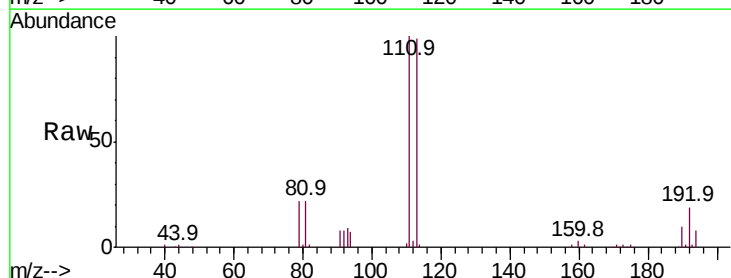


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

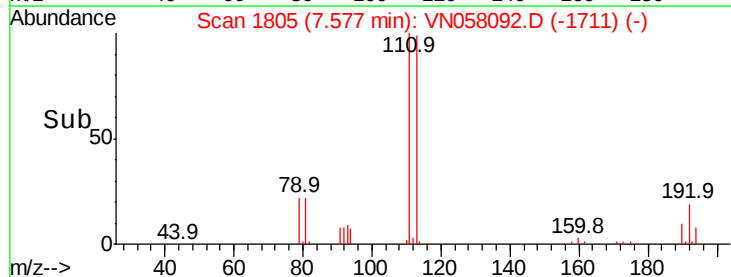
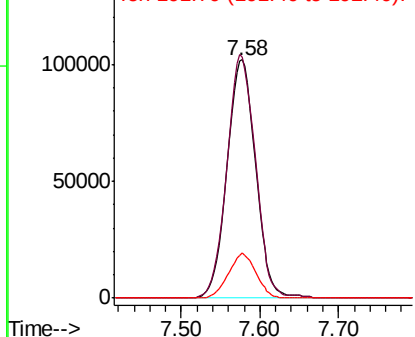


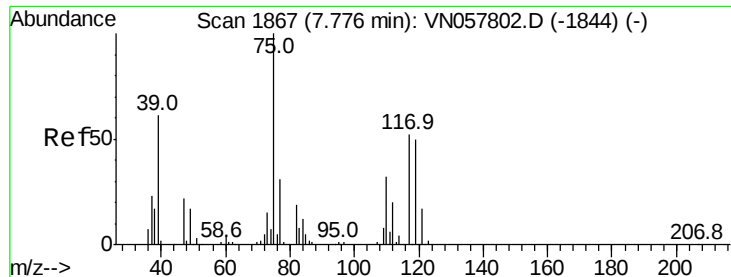
#35
 Dibromofluoromethane
 Concen: 51.907 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN058092.D
 Acq: 15 Sep 2019 15:22

Tgt Ion:113 Resp: 257297
 Ion Ratio Lower Upper
 113 100
 111 101.0 81.3 121.9
 192 18.2 14.6 22.0



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

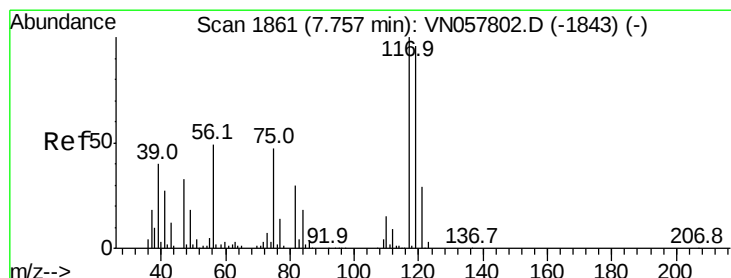
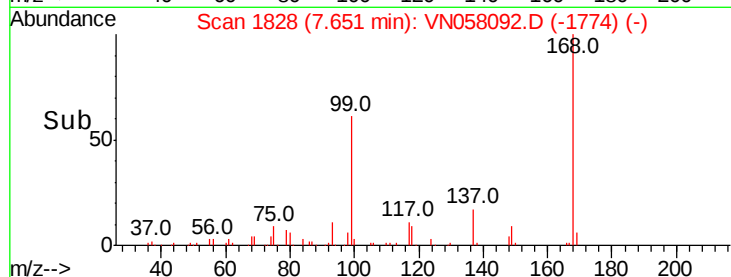
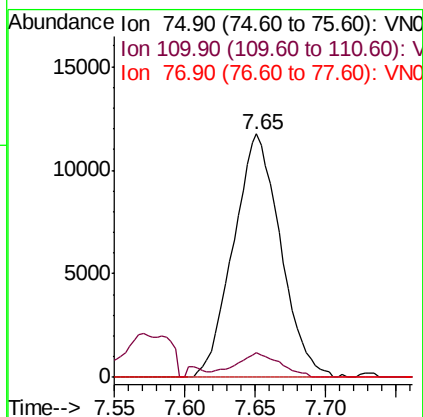
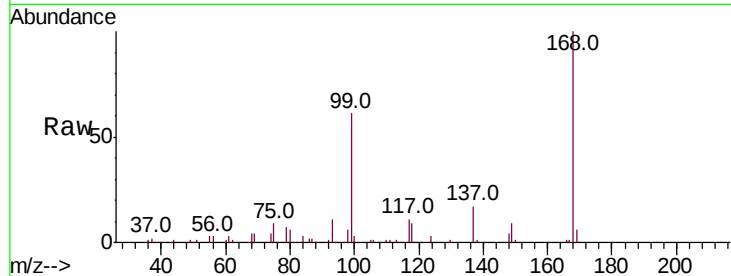




#36
 1,1-Dichloropropene
 Concen: 4.400 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN058092.D
 Acq: 15 Sep 2019 15:22

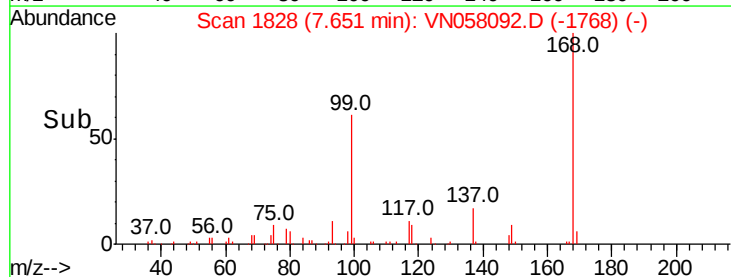
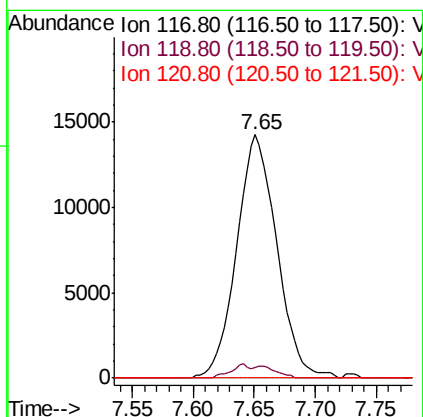
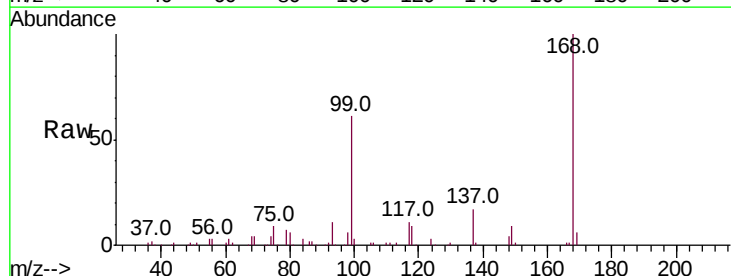
Instrument :
 MSVOA_N
 ClientSampleId :

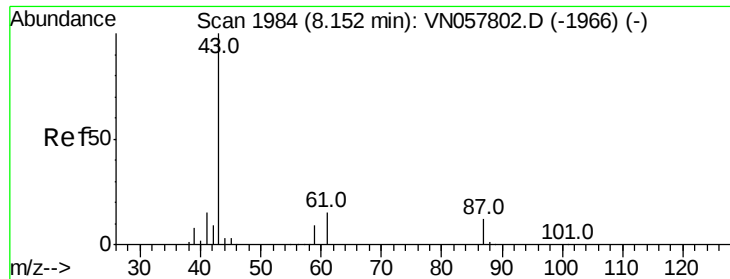
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.5	16.3	48.9#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 5.704 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN058092.D
 Acq: 15 Sep 2019 15:22

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.3	76.9	115.3#
121	0.0	23.4	35.2#





#43

Isopropyl Acetate

Concen: 19.603 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. 0.00 min

Lab File: VN058092.D

Acq: 15 Sep 2019 15:22

Instrument :

MSVOA_N

ClientSampleId :

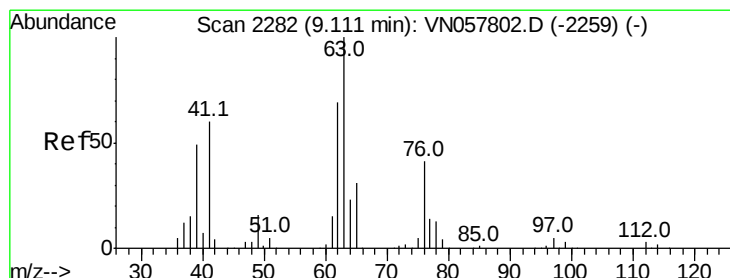
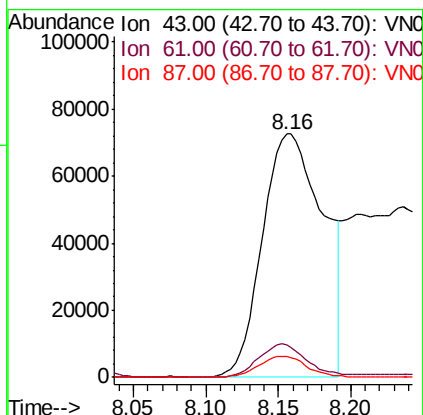
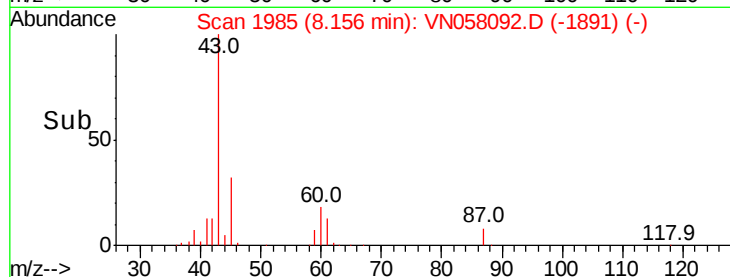
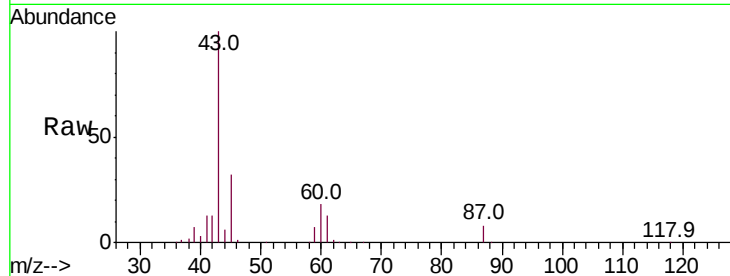
Tot Ion: 43 Resp: 212140

Ion Ratio Lower Upper

43 100

61 10.9 20.1 30.1#

87 6.8 9.5 14.3#



#45

1,2-Dichloropropane

Concen: 0.378 ug/l

RT: 9.26 min Scan# 2327

Delta R.T. 0.14 min

Lab File: VN058092.D

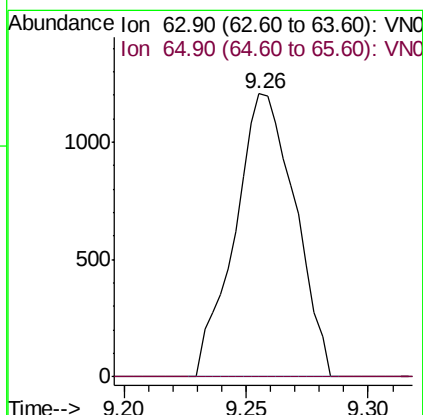
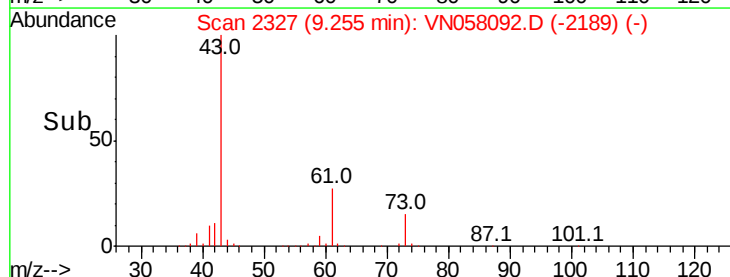
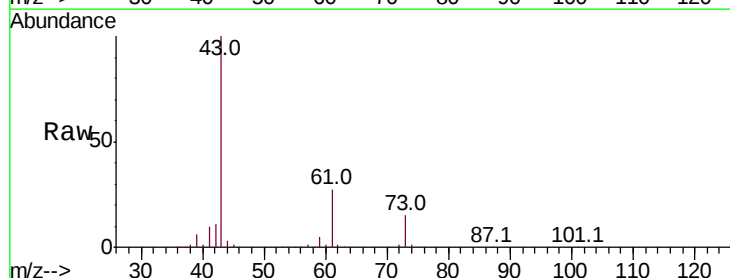
Acq: 15 Sep 2019 15:22

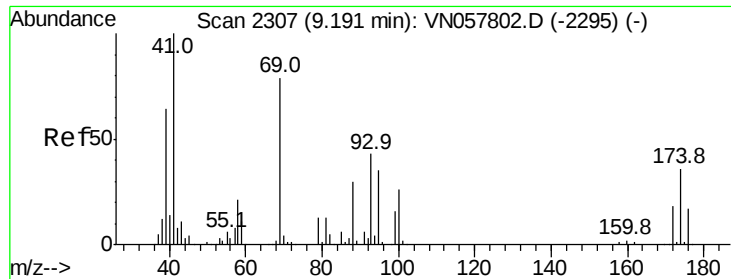
Tgt Ion: 63 Resp: 2064

Ion Ratio Lower Upper

63 100

65 0.0 24.8 37.2#

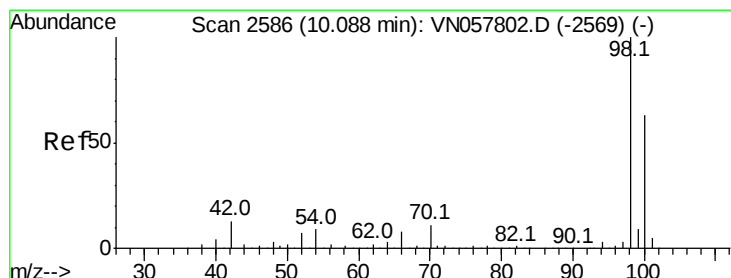
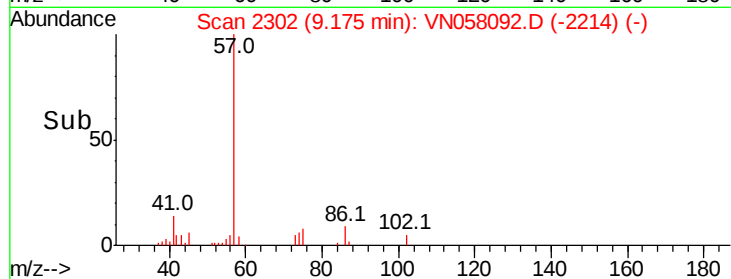
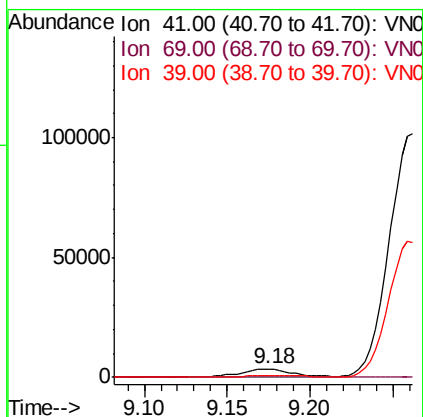
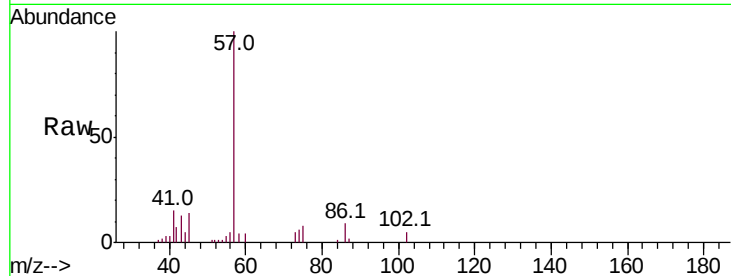




#48
Methyl methacrylate
Concen: 1.427 ug/l
RT: 9.18 min Scan# 2302
Delta R.T. -0.02 min
Lab File: VN058092.D
Acq: 15 Sep 2019 15:22

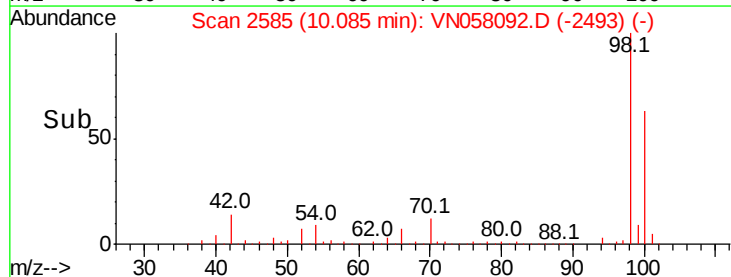
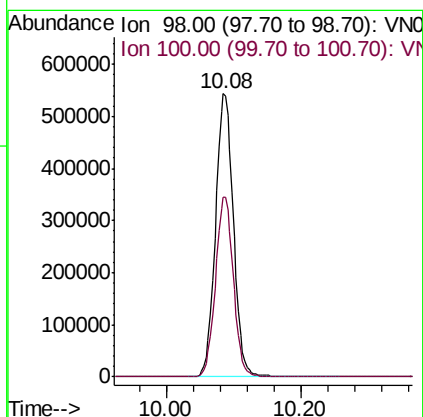
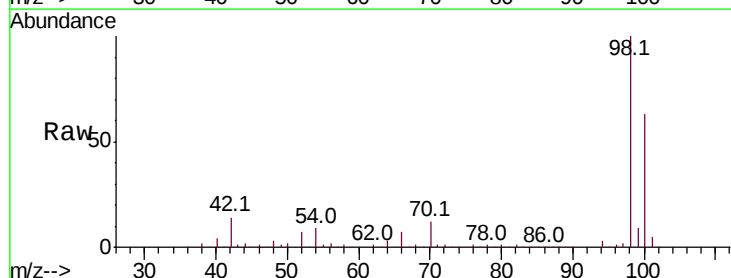
Instrument :
MSVOA_N
ClientSampled :

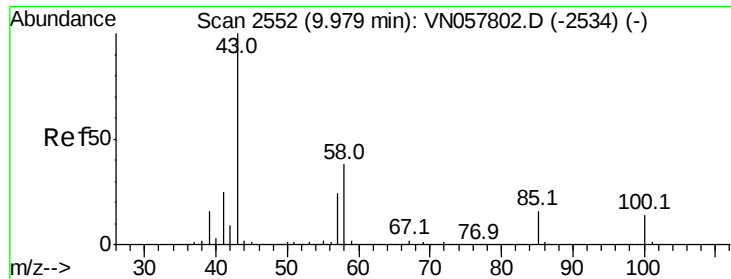
Tot Ion: 41 Resp: 7834
Ion Ratio Lower Upper
41 100
69 0.0 62.7 94.1#
39 0.0 52.7 79.1#



#50
Toluene-d8
Concen: 52.532 ug/l
RT: 10.08 min Scan# 2585
Delta R.T. -0.00 min
Lab File: VN058092.D
Acq: 15 Sep 2019 15:22

Tgt Ion: 98 Resp: 1010987
Ion Ratio Lower Upper
98 100
100 63.5 50.3 75.5





#51

4-Methyl-2-Pentanone

Concen: 1.474 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN058092.D

Acq: 15 Sep 2019 15:22

Instrument :

MSVOA_N

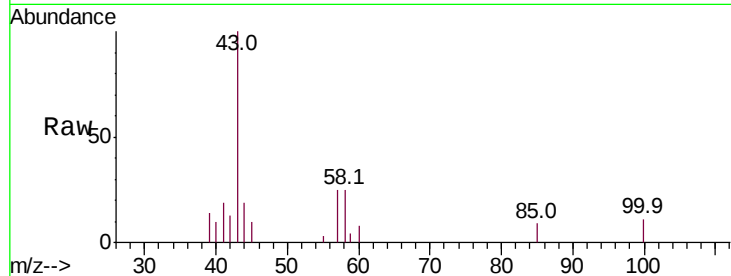
ClientSampled :

Tot Ion: 43 Resp: 9442

Ion Ratio Lower Upper

43 100

58 33.1 29.8 44.6



Abundance Ion 43.00 (42.70 to 43.70): VN057802.D (-2534) (-)

Ion 58.00 (57.70 to 58.70): VN057802.D (-2534) (-)

25000

20000

15000

10000

5000

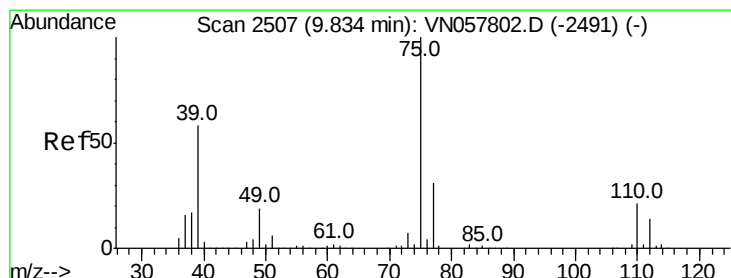
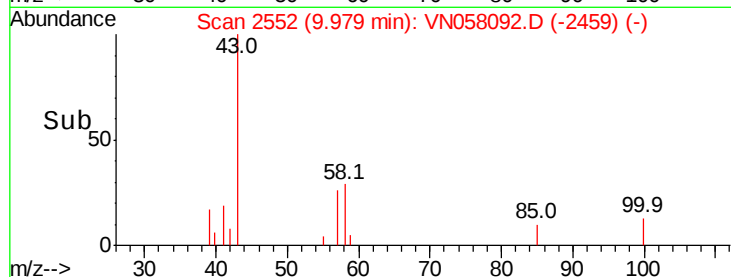
0

9.95

9.98

10.00

Time-->



#54

cis-1,3-Dichloropropene

Concen: 6.856 ug/l

RT: 9.90 min Scan# 2527

Delta R.T. 0.06 min

Lab File: VN058092.D

Acq: 15 Sep 2019 15:22

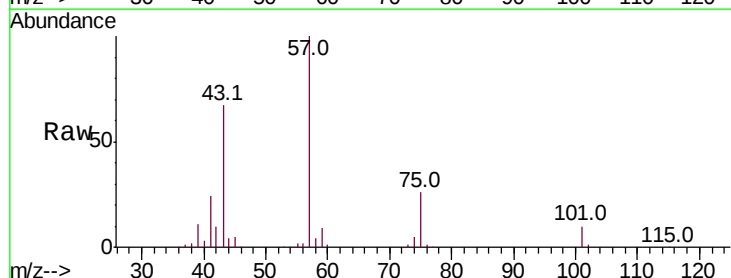
Tgt Ion: 75 Resp: 52484

Ion Ratio Lower Upper

75 100

77 0.6 24.8 37.2#

39 41.9 46.2 69.4#



Abundance Ion 74.90 (74.60 to 75.60): VN057802.D (-2491) (-)

Ion 76.90 (76.60 to 77.60): VN057802.D (-2491) (-)

Ion 39.00 (38.70 to 39.70): VN057802.D (-2491) (-)

40000

30000

20000

10000

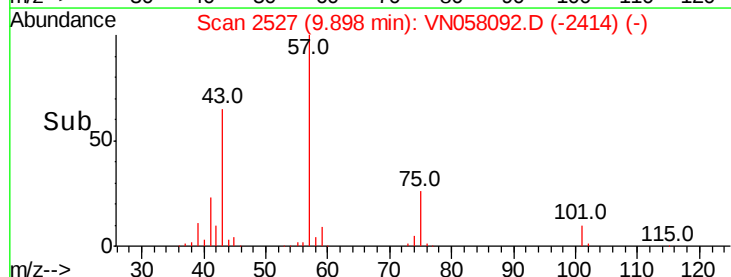
0

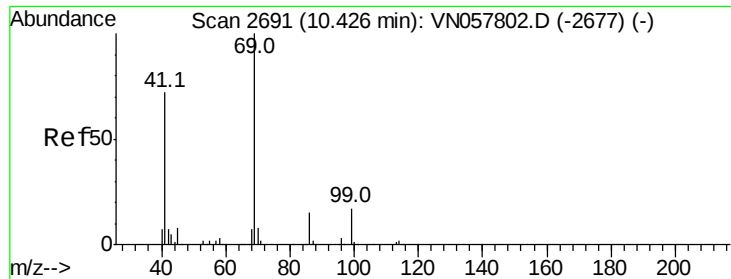
9.85

9.90

9.95

Time-->





#56

Ethyl methacrylate

Concen: 0.302 ug/l

RT: 10.54 min Scan# 2728

Delta R.T. 0.12 min

Lab File: VN058092.D

Acq: 15 Sep 2019 15:22

Instrument :

MSVOA_N

ClientSampled :

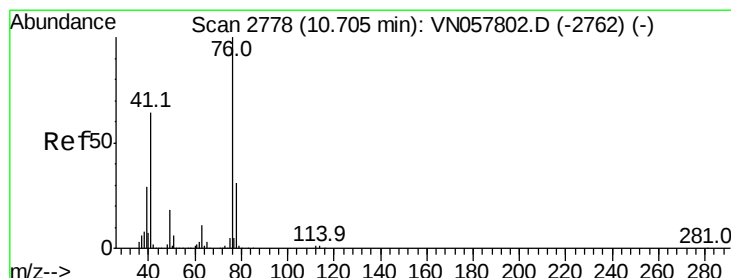
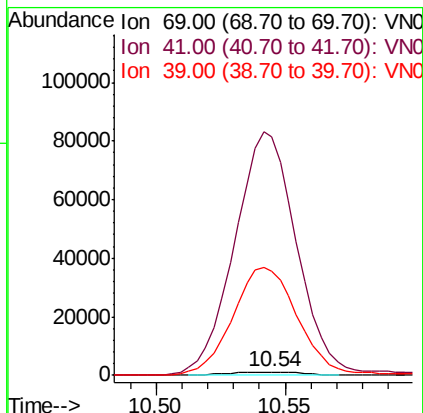
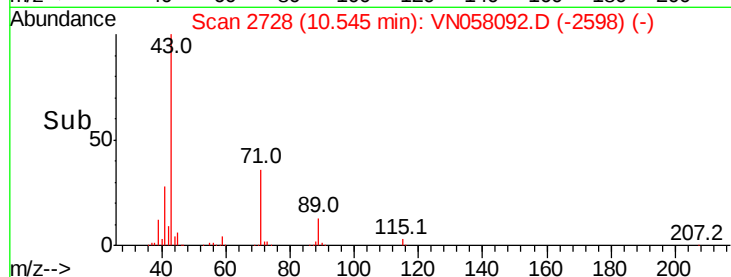
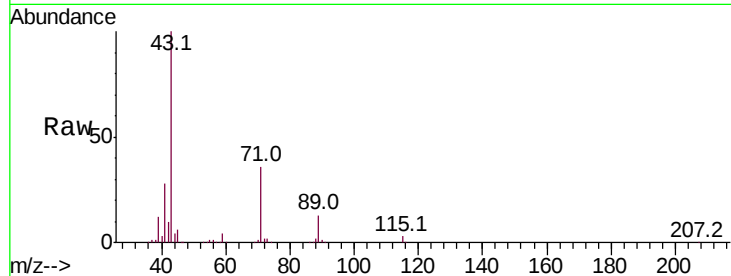
Tot Ion: 69 Resp: 2273

Ion Ratio Lower Upper

69 100

41 6205.1 56.7 85.1#

39 2863.8 36.3 54.5#



#57

1,3-Dichloropropane

Concen: 0.919 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN058092.D

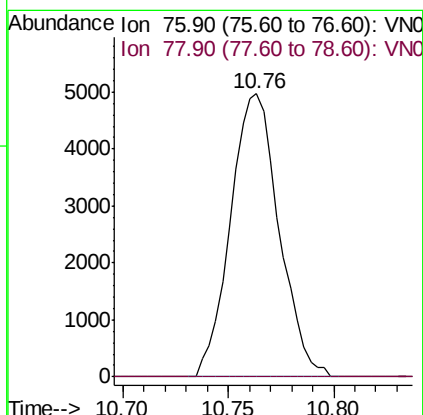
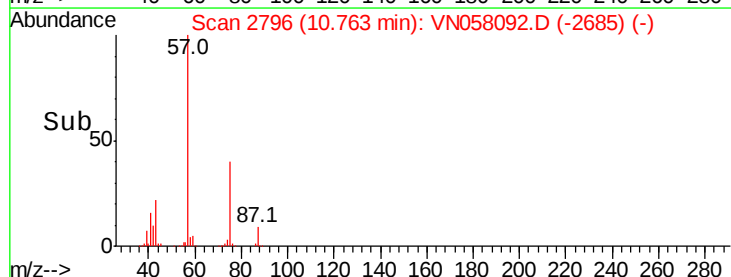
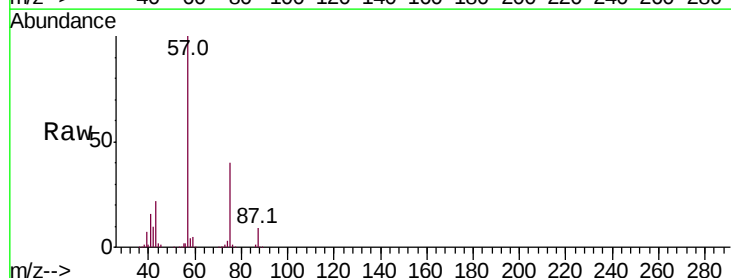
Acq: 15 Sep 2019 15:22

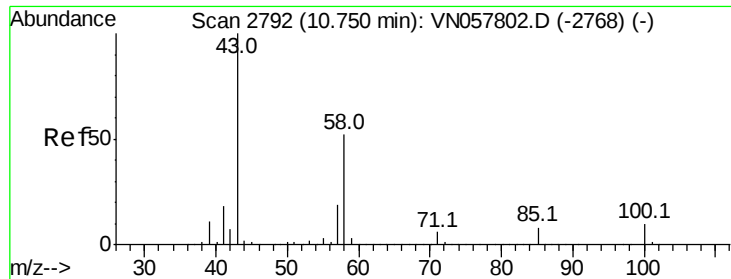
Tgt Ion: 76 Resp: 7924

Ion Ratio Lower Upper

76 100

78 0.0 25.4 38.2#

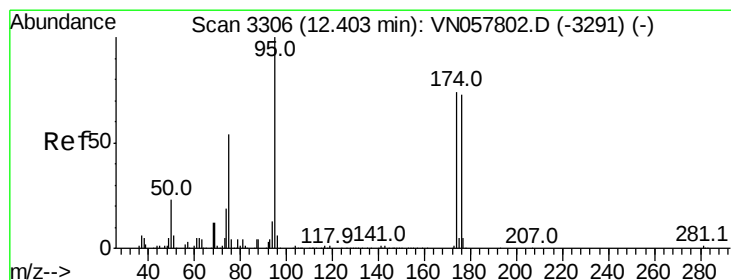
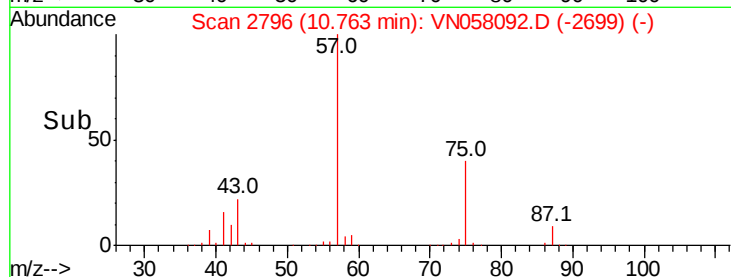
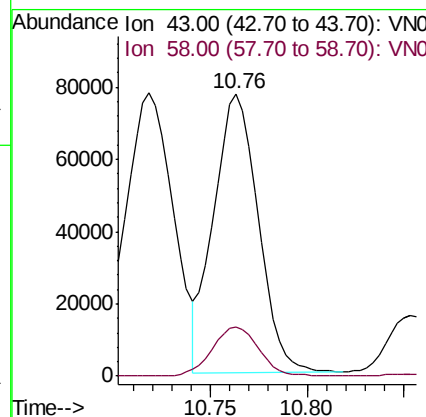
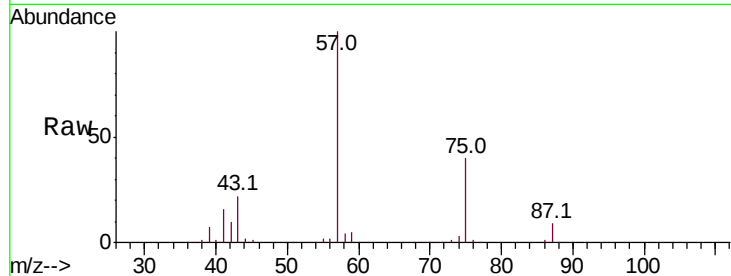




#59
2-Hexanone
Concen: 25.844 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN058092.D
Acq: 15 Sep 2019 15:22

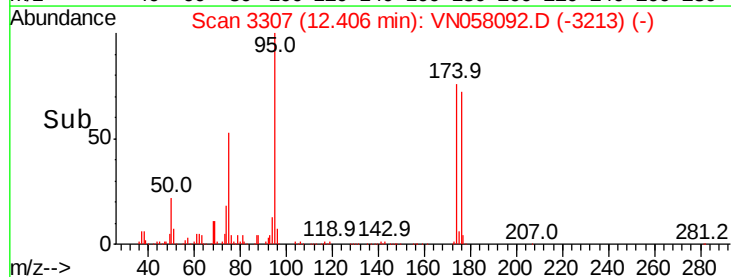
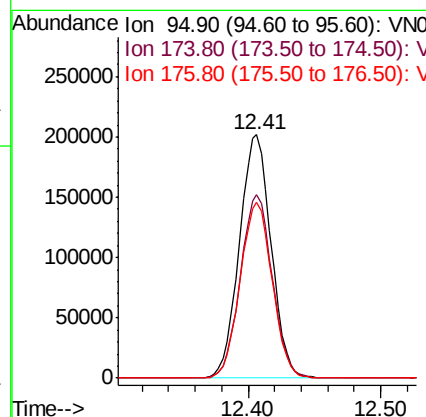
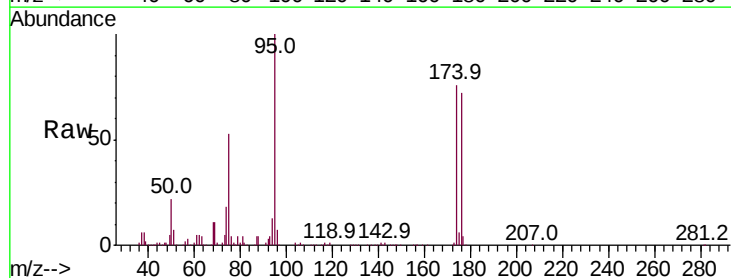
Instrument :
MSVOA_N
ClientSampled :

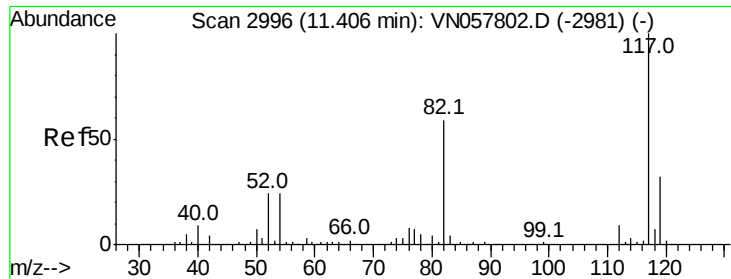
Tot Ion: 43 Resp: 124053
Ion Ratio Lower Upper
43 100
58 18.6 25.6 76.8#



#62
4-Bromofluorobenzene
Concen: 45.644 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.00 min
Lab File: VN058092.D
Acq: 15 Sep 2019 15:22

Tgt Ion: 95 Resp: 334758
Ion Ratio Lower Upper
95 100
174 76.0 0.0 150.2
176 73.0 0.0 146.0

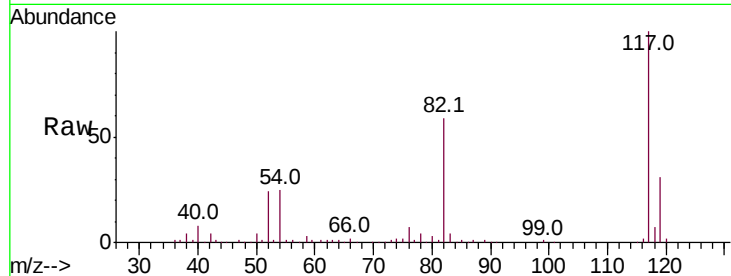




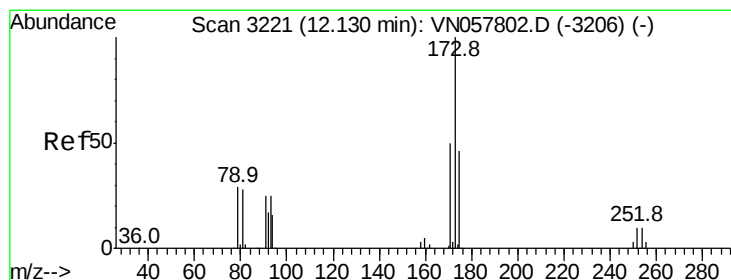
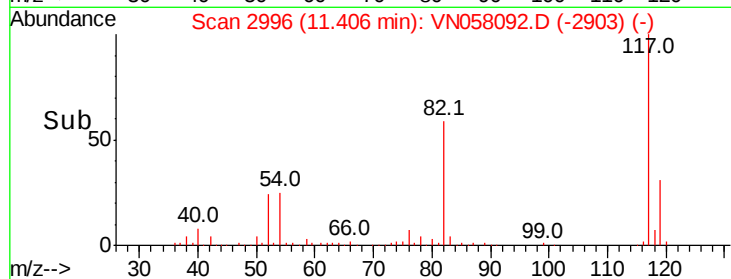
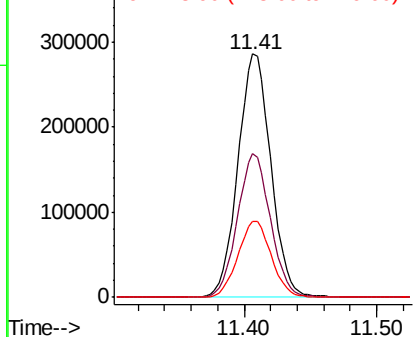
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058092.D
Acq: 15 Sep 2019 15:22

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 494295
Ion Ratio Lower Upper
117 100
82 58.9 47.2 70.8
119 31.1 25.3 37.9

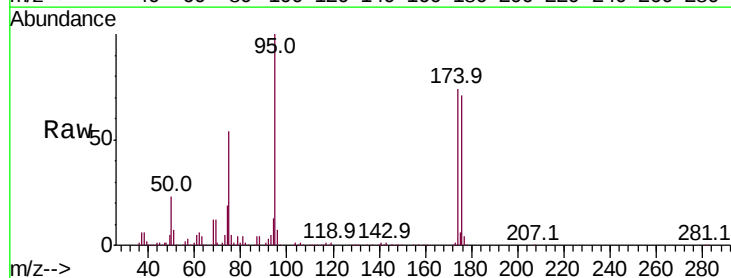


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

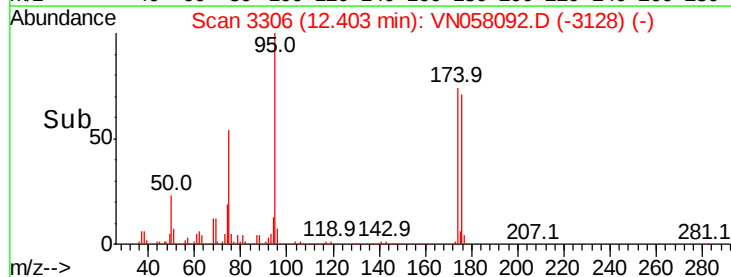
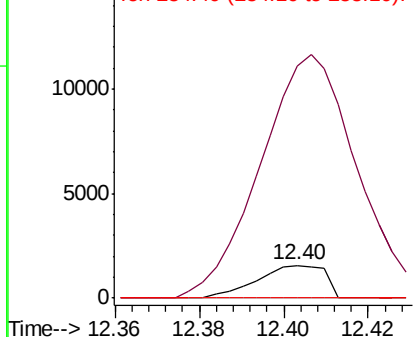


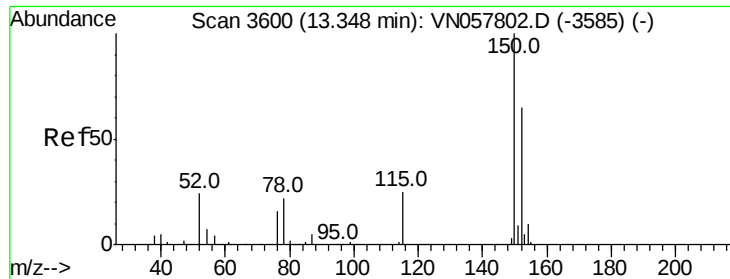
#71
Bromoform
Concen: 0.625 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.27 min
Lab File: VN058092.D
Acq: 15 Sep 2019 15:22

Tgt Ion:173 Resp: 1750
Ion Ratio Lower Upper
173 100
175 908.6 23.5 70.6#
254 0.0 0.1 0.1#



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: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN058092.D

Acq: 15 Sep 2019 15:22

Instrument :

MSVOA_N

ClientSampleId :

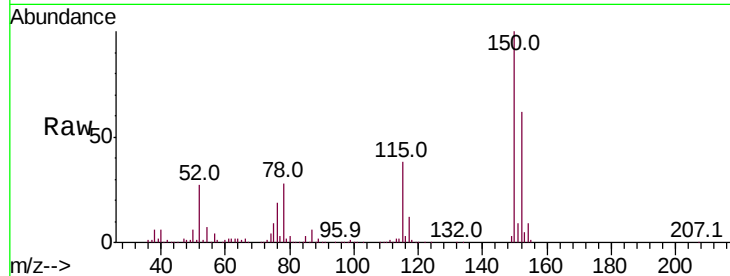
Tot Ion:152 Resp: 262034

Ion Ratio Lower Upper

152 100

115 61.2 30.3 91.0

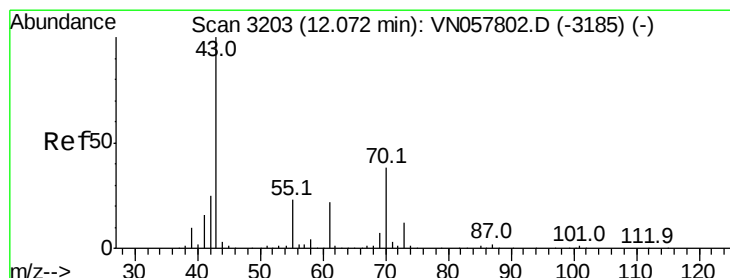
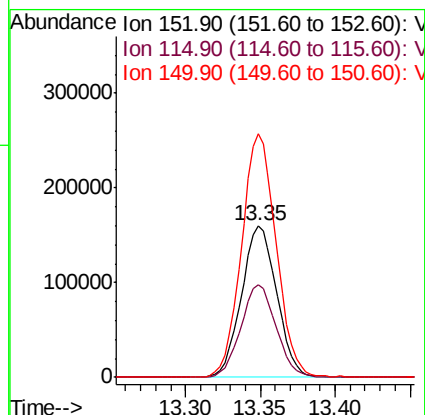
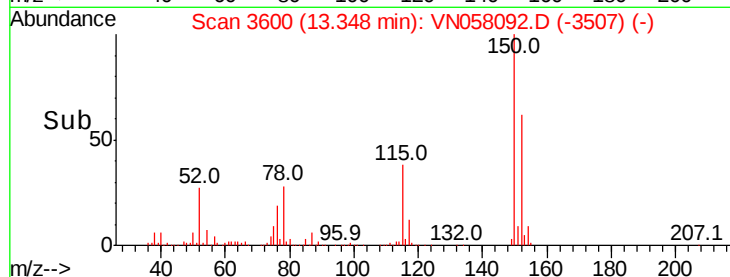
150 157.7 0.0 352.4



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



#74

N-ethyl acetate

Concen: 0.638 ug/l

RT: 12.03 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN058092.D

Acq: 15 Sep 2019 15:22

Tgt Ion: 43 Resp: 5649

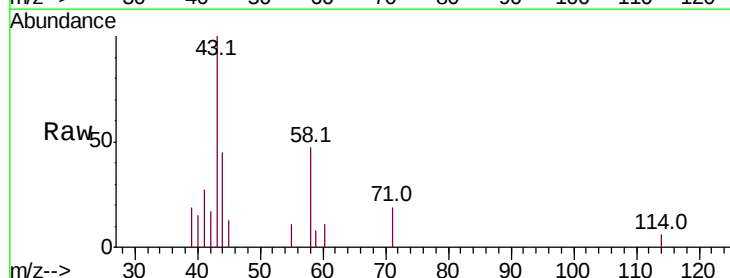
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 6.8 18.6 27.8#

61 0.0 17.4 26.2#

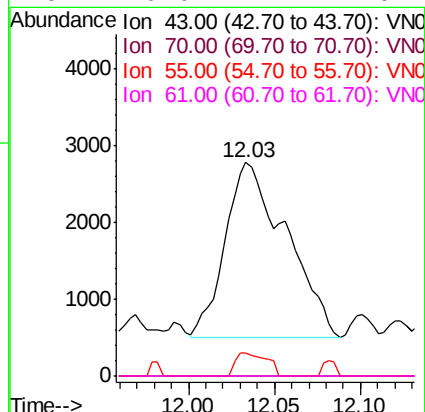
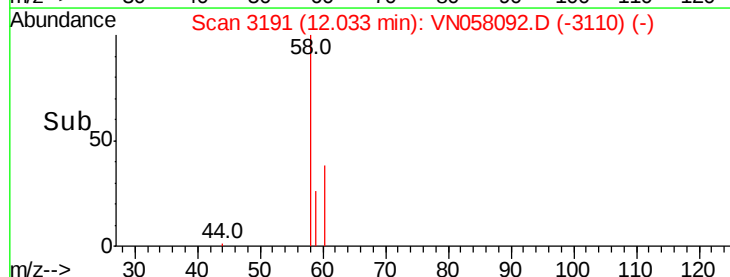


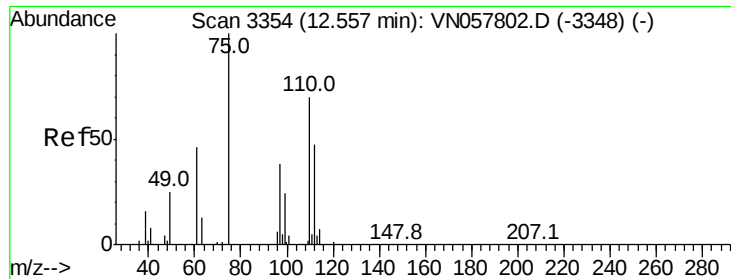
Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO





#76

1,2,3-Trichloropropane

Concen: 31.101 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058092.D

Acq: 15 Sep 2019 15:22

Instrument :

MSVOA_N

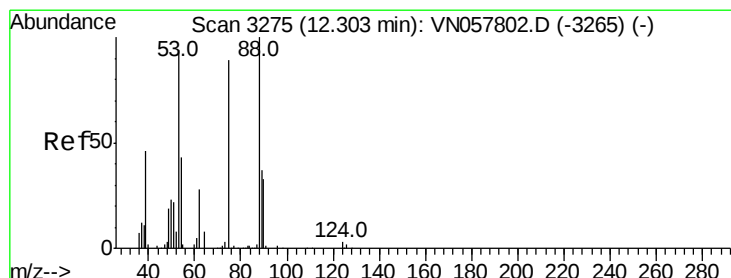
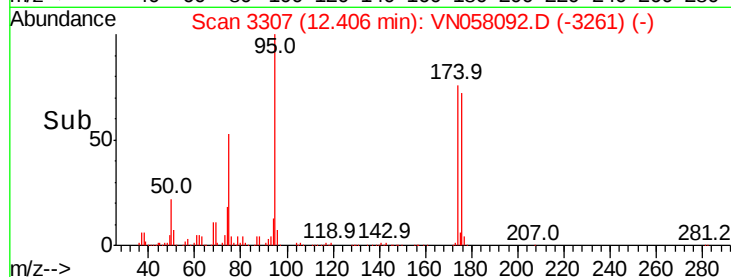
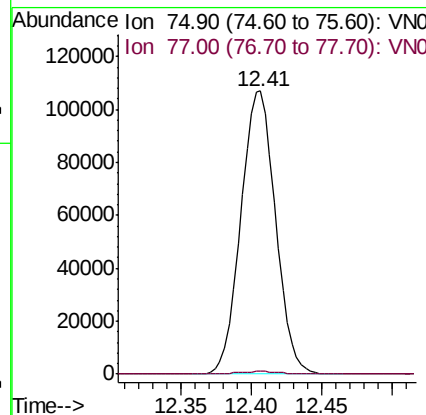
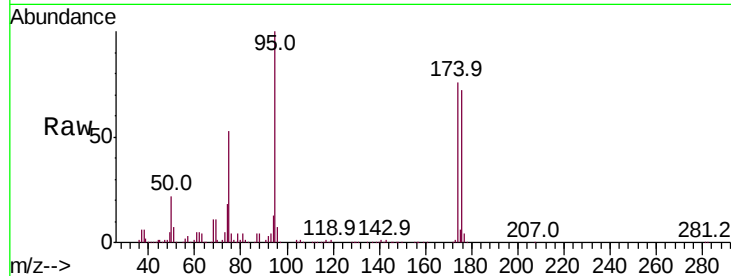
ClientSampleId :

Tot Ion: 75 Resp: 184355

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 109.444 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058092.D

Acq: 15 Sep 2019 15:22

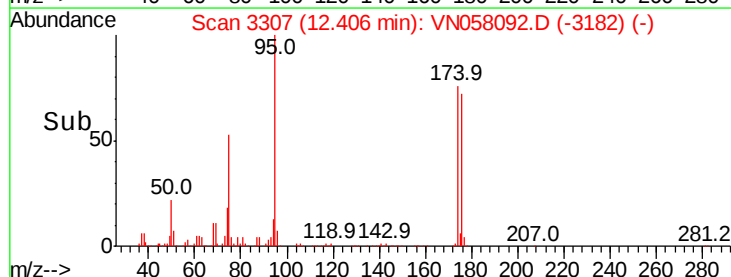
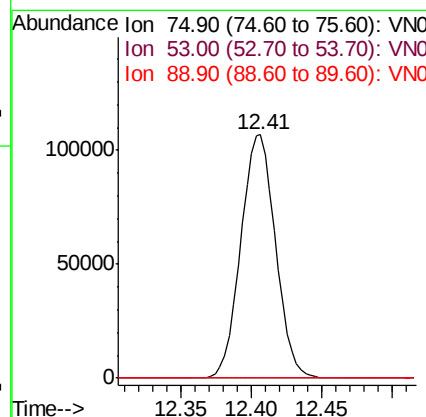
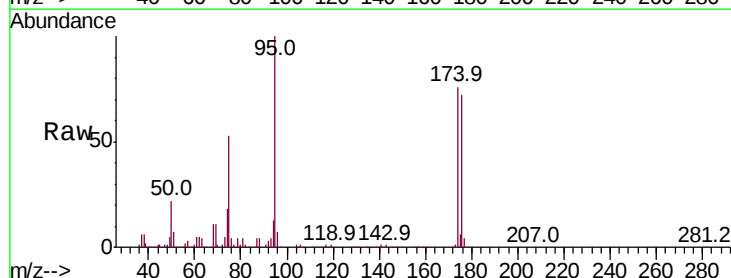
Tgt Ion: 75 Resp: 184355

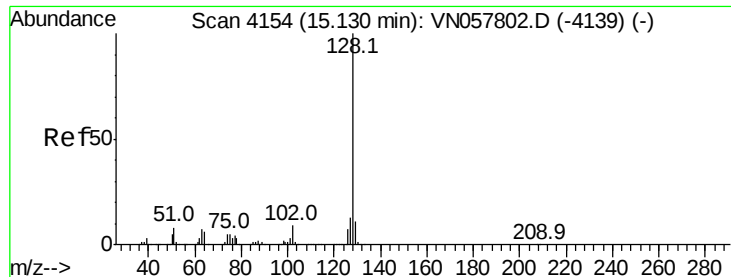
Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

89 0.0 35.3 52.9#





#95

Naphthalene

Concen: Below Cal

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN058092.D

Acq: 15 Sep 2019 15:22

Instrument :

MSVOA_N

ClientSampled :

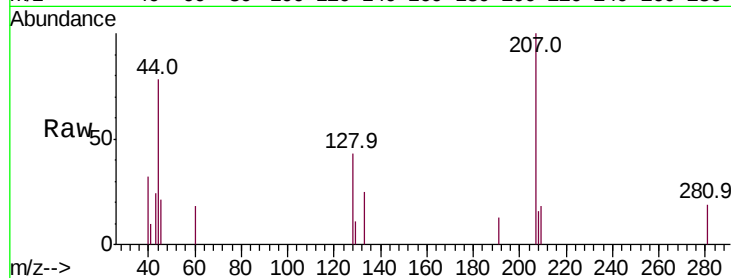
Tot Ion:128 Resp: 1014

Ion Ratio Lower Upper

128 100

127 6.6 10.3 15.5#

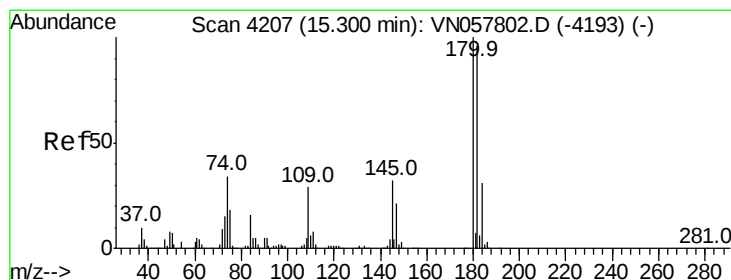
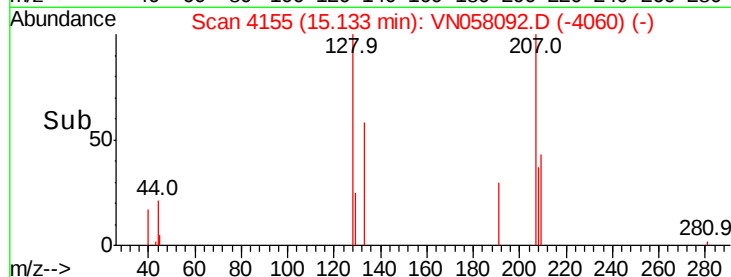
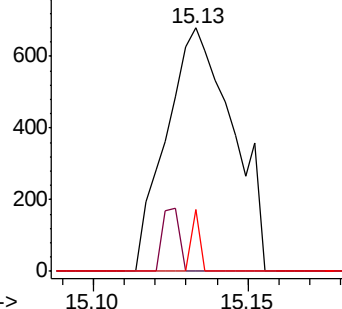
129 3.3 8.6 12.8#



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: 1.011 ug/l

RT: 15.30 min Scan# 4208

Delta R.T. 0.00 min

Lab File: VN058092.D

Acq: 15 Sep 2019 15:22

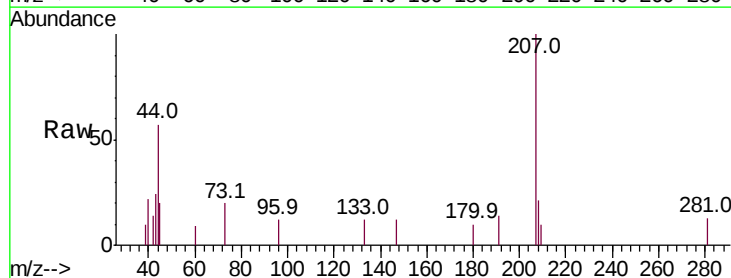
Tgt Ion:180 Resp: 69

Ion Ratio Lower Upper

180 100

182 0.0 48.3 144.8#

145 0.0 16.3 48.8#



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

