

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120619\
 Data File : VN059516.D
 Acq On : 6 Dec 2019 15:37
 Operator : JC/SP
 Sample : K6147-17
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 06 22:20:52 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N120319W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 03 16:37:42 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	227419	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	358818	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	335741	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	122188	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	162269	57.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	114.88%	
35) Dibromofluoromethane	7.57	113	116178	51.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.98%	
50) Toluene-d8	10.08	98	465152	52.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.58%	
62) 4-Bromofluorobenzene	12.40	95	146411	47.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.16%	

Target Compounds

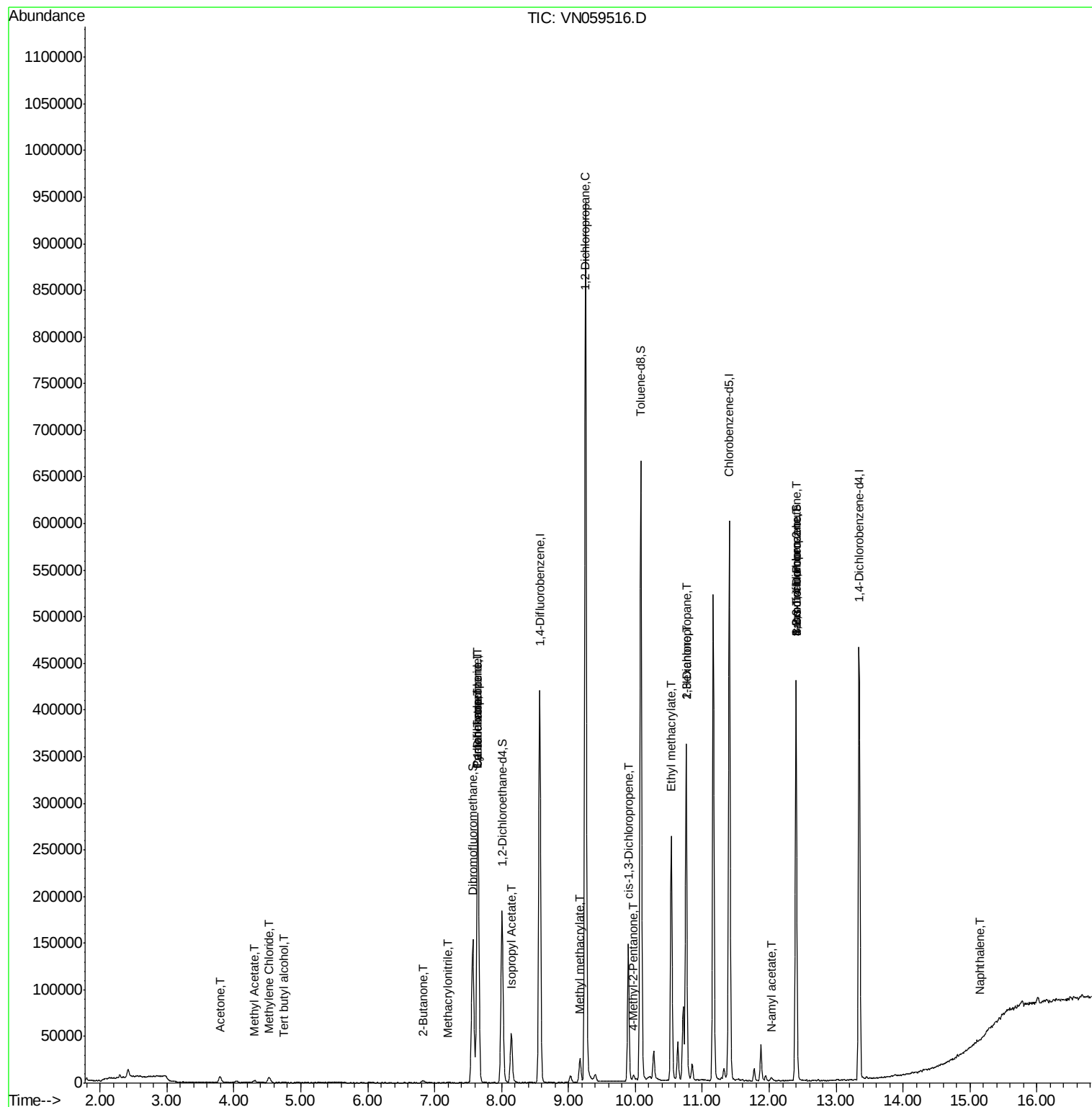
					Qvalue
11) Tert butyl alcohol	4.75	59	459	0.862 ug/l #	73
16) Acetone	3.79	43	11538	2.153 ug/l	96
18) Methyl Acetate	4.30	43	3828	1.007 ug/l #	79
20) Methylene Chloride	4.52	84	4361	0.451 ug/l	95
25) 2-Butanone	6.82	43	4572	2.129 ug/l	97
31) Cyclohexane	7.65	56	5393	1.133 ug/l #	20
36) 1,1-Dichloropropene	7.64	75	18685	5.004 ug/l #	49
38) Carbon Tetrachloride	7.64	117	22546	6.278 ug/l #	16
41) Methacrylonitrile	7.19	41	501	0.296 ug/l #	100
43) Isopropyl Acetate	8.15	43	61596	9.929 ug/l #	89
45) 1,2-Dichloropropane	9.26	63	1184	0.405 ug/l #	44
48) Methyl methacrylate	9.16	41	4168	1.489 ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	4462	1.212 ug/l	93
54) cis-1,3-Dichloropropene	9.90	75	24678	5.426 ug/l #	73
56) Ethyl methacrylate	10.54	69	1159	1.718 ug/l #	1
57) 1,3-Dichloropropane	10.76	76	3696	0.820 ug/l #	42
59) 2-Hexanone	10.76	43	55476	20.019 ug/l #	51
71) Bromoform	12.40	173	885	0.431 ug/l #	1
74) N-amyl acetate	12.03	43	3199	0.810 ug/l #	42
76) 1,2,3-Trichloropropane	12.40	75	79141	26.049 ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	79141	68.363 ug/l #	15
95) Naphthalene	15.14	128	63	2.436 ug/l #	69

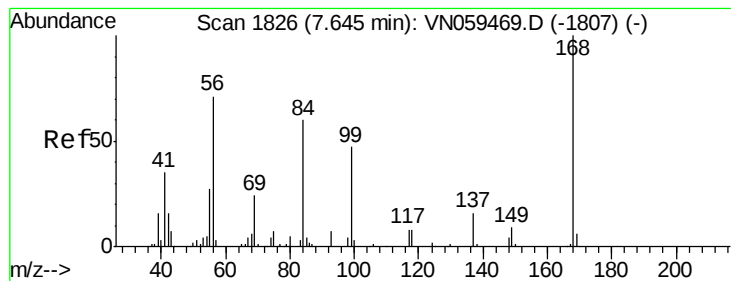
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N120319W.M
Quant Title : SW846 8260
QLast Update : Tue Dec 03 16:37:42 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN059516.D

Acq: 6 Dec 2019 15:37

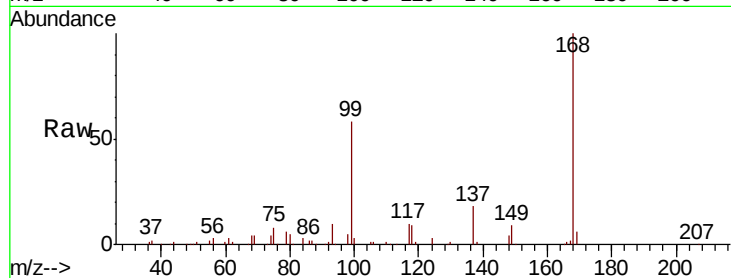
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 227419

Ion Ratio Lower Upper

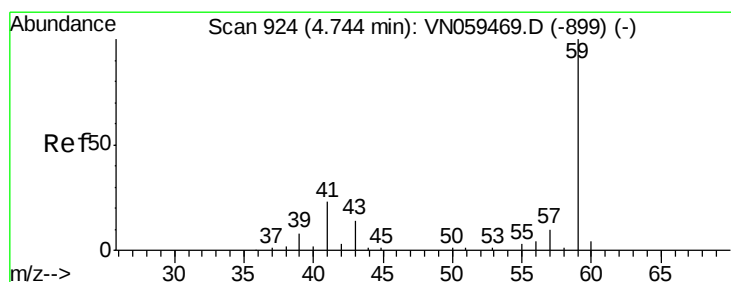
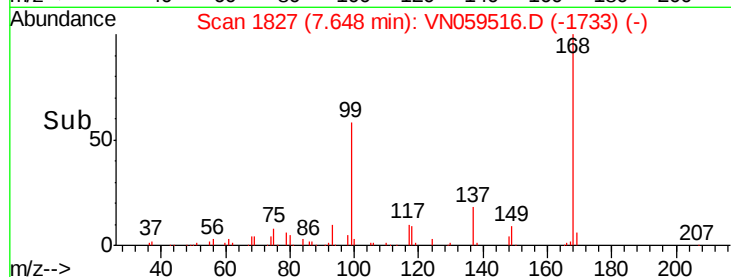
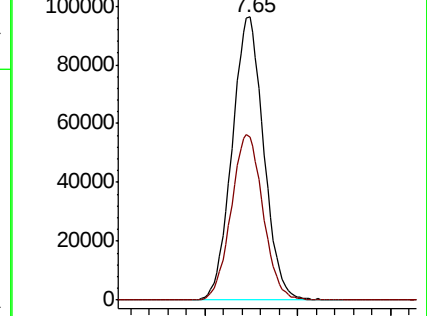
168 100

99 57.5 43.4 65.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#11

Tert butyl alcohol

Concen: 0.862 ug/l

RT: 4.75 min Scan# 925

Delta R.T. 0.00 min

Lab File: VN059516.D

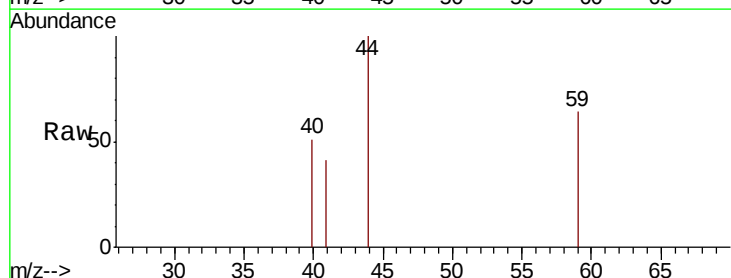
Acq: 6 Dec 2019 15:37

Tgt Ion: 59 Resp: 459

Ion Ratio Lower Upper

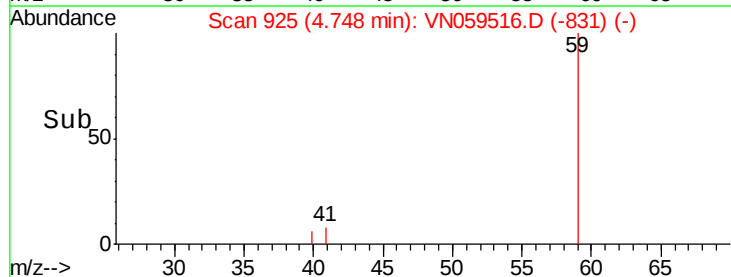
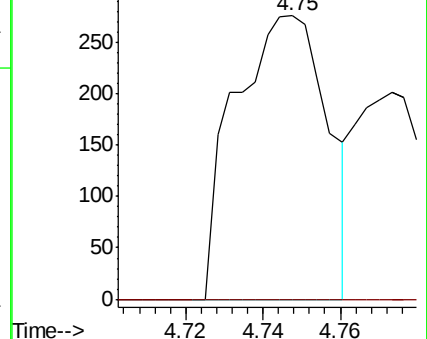
59 100

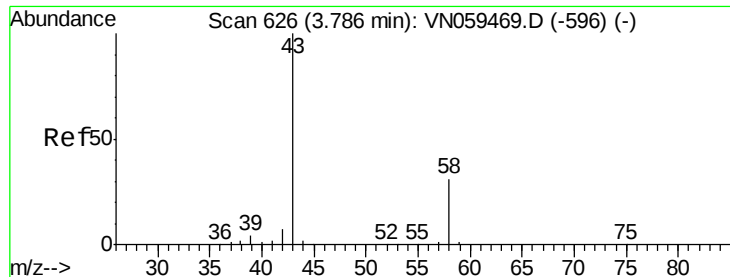
57 0.0 8.1 12.1#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

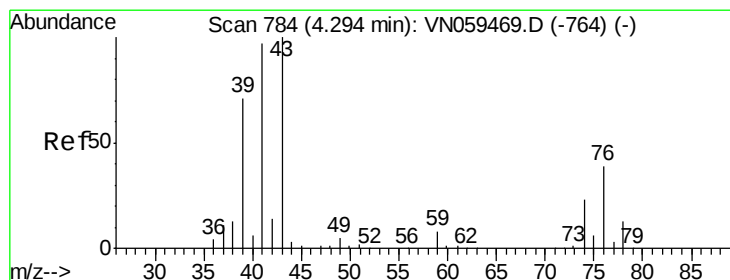
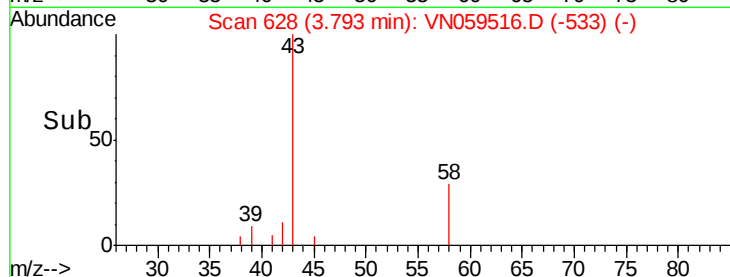
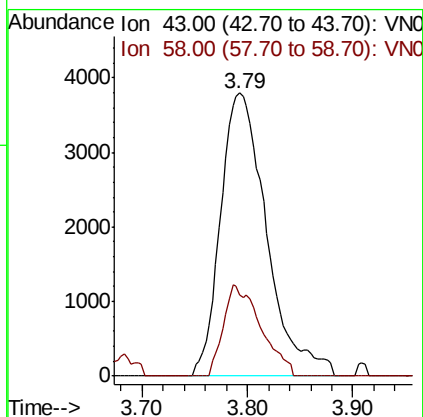
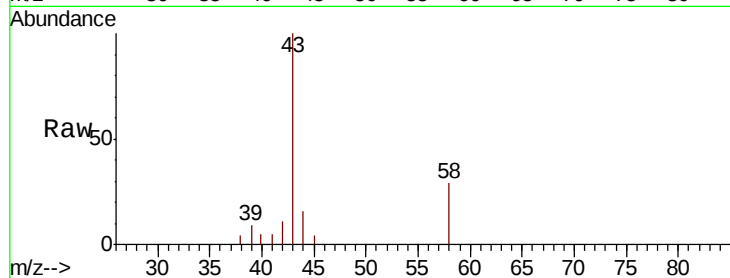




#16
Acetone
Concen: 2.153 ug/l
RT: 3.79 min Scan# 628
Delta R.T. 0.01 min
Lab File: VN059516.D
Acq: 6 Dec 2019 15:37

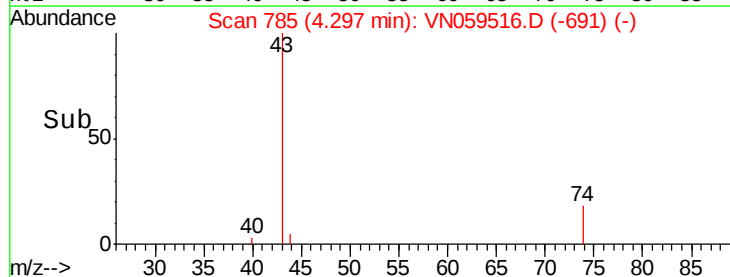
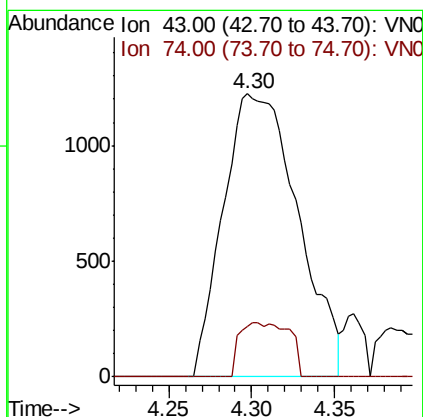
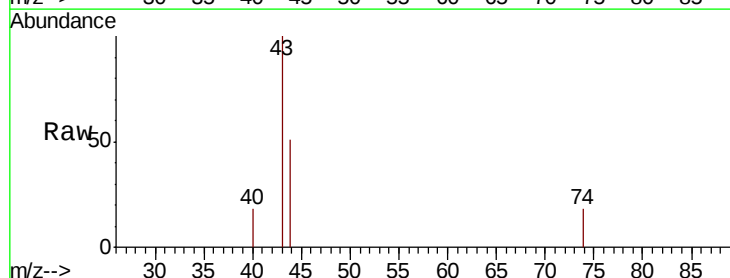
Instrument :
MSVOA_N
ClientSampled :

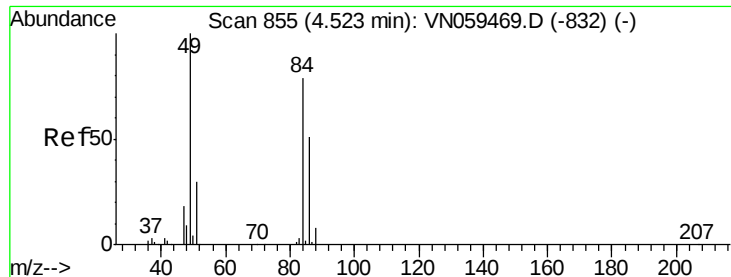
Tot Ion: 43 Resp: 11538
Ion Ratio Lower Upper
43 100
58 28.7 24.9 37.3



#18
Methyl Acetate
Concen: 1.007 ug/l
RT: 4.30 min Scan# 785
Delta R.T. 0.00 min
Lab File: VN059516.D
Acq: 6 Dec 2019 15:37

Tgt Ion: 43 Resp: 3828
Ion Ratio Lower Upper
43 100
74 12.8 18.3 27.5#

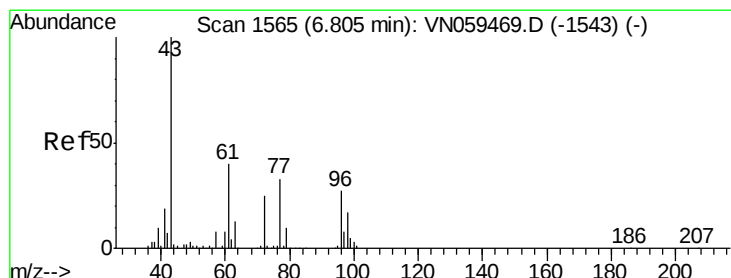
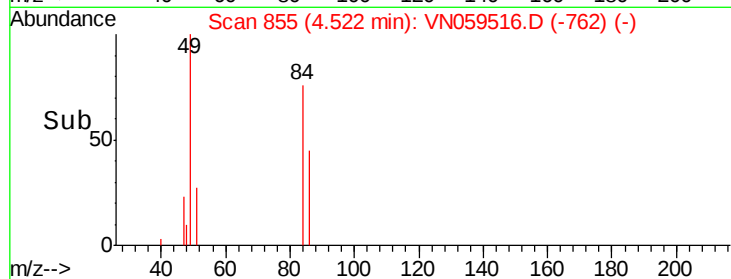
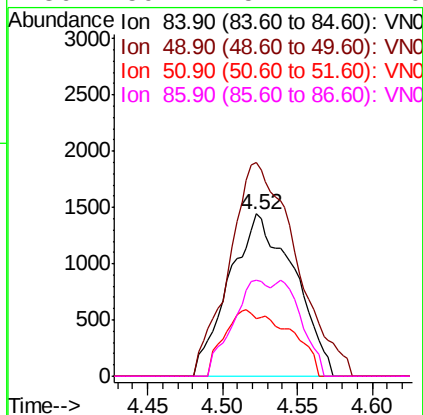
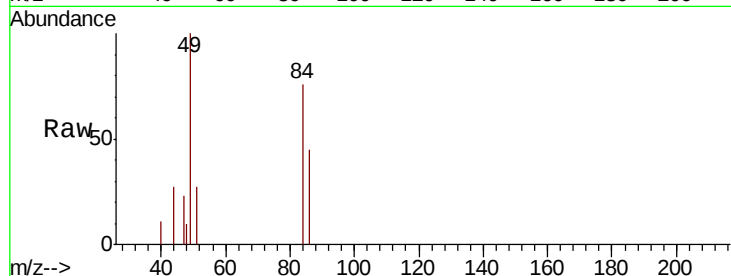




#20
Methvlene Chloride
Concen: 0.451 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN059516.D
Acq: 6 Dec 2019 15:37

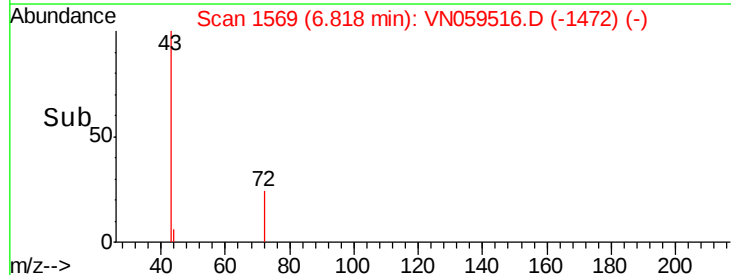
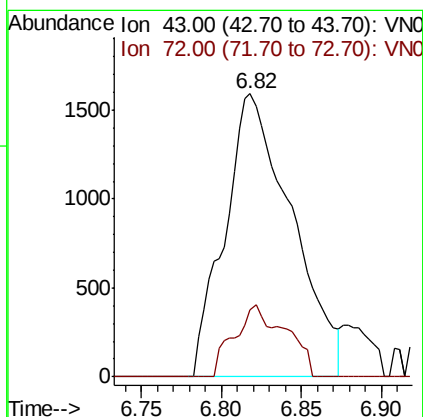
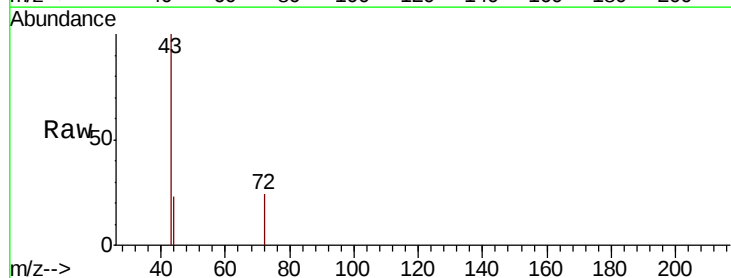
Instrument :
MSVOA_N
ClientSampled :

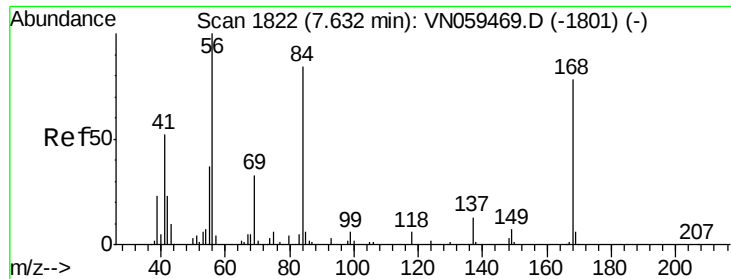
Tot Ion: 84 Resp: 4361
Ion Ratio Lower Upper
84 100
49 131.8 101.1 151.7
51 35.8 30.7 46.1
86 59.7 51.4 77.0



#25
2-Butanone
Concen: 2.129 ug/l
RT: 6.82 min Scan# 1569
Delta R.T. 0.01 min
Lab File: VN059516.D
Acq: 6 Dec 2019 15:37

Tgt Ion: 43 Resp: 4572
Ion Ratio Lower Upper
43 100
72 23.8 20.2 30.2

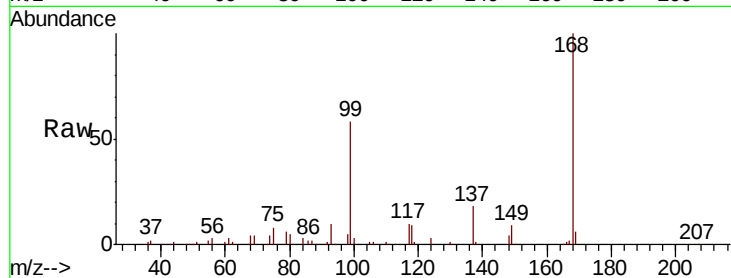




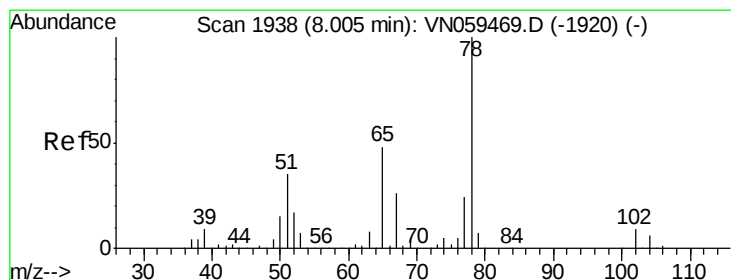
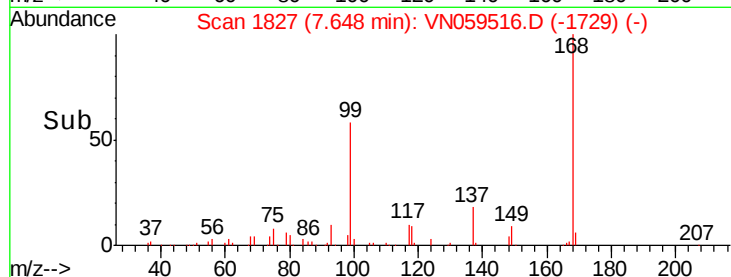
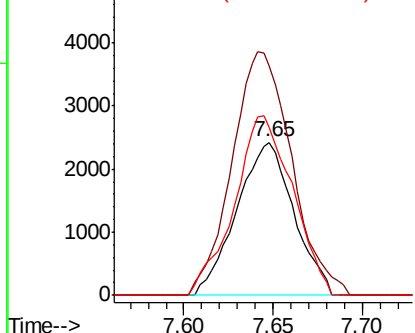
#31
Cyclohexane
Concen: 1.133 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. 0.02 min
Lab File: VN059516.D
Acq: 6 Dec 2019 15:37

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 56 Resp: 5393
Ion Ratio Lower Upper
56 100
69 150.1 26.2 39.4#
84 109.7 66.8 100.2#

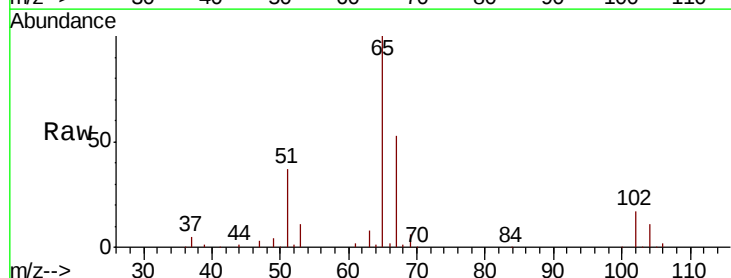


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

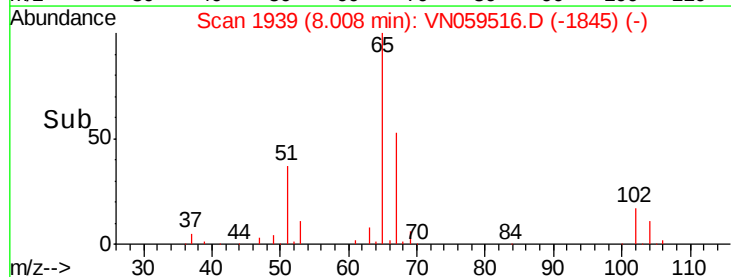
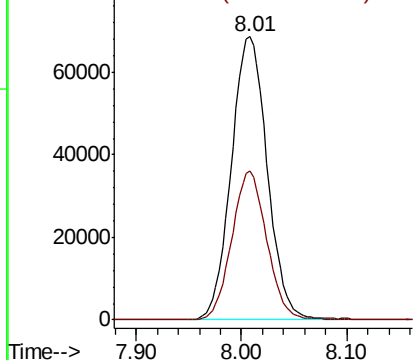


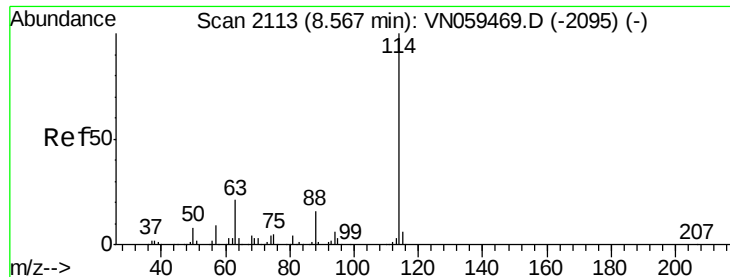
#33
1,2-Dichloroethane-d4
Concen: 57.437 ug/l
RT: 8.01 min Scan# 1939
Delta R.T. 0.00 min
Lab File: VN059516.D
Acq: 6 Dec 2019 15:37

Tgt Ion: 65 Resp: 162269
Ion Ratio Lower Upper
65 100
67 51.2 0.0 107.4



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

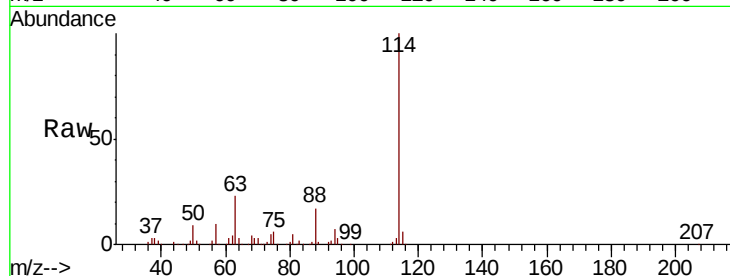




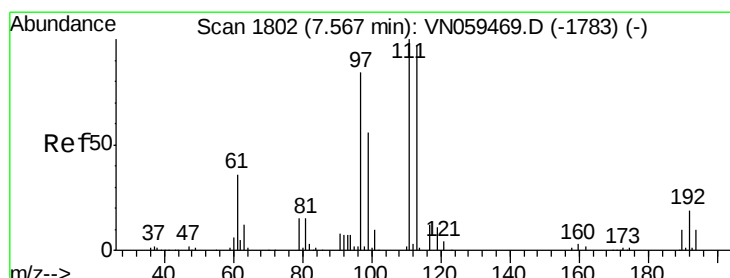
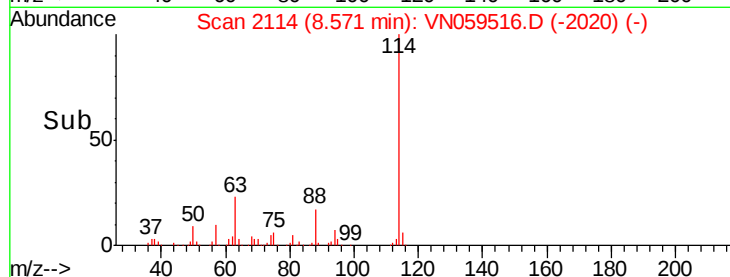
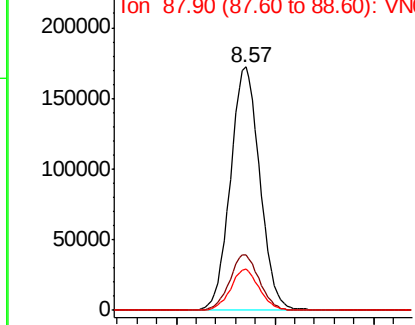
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2114
 Delta R.T. 0.00 min
 Lab File: VN059516.D
 Acq: 6 Dec 2019 15:37

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 358818
 Ion Ratio Lower Upper
 114 100
 63 22.7 0.0 42.4
 88 16.8 0.0 32.8

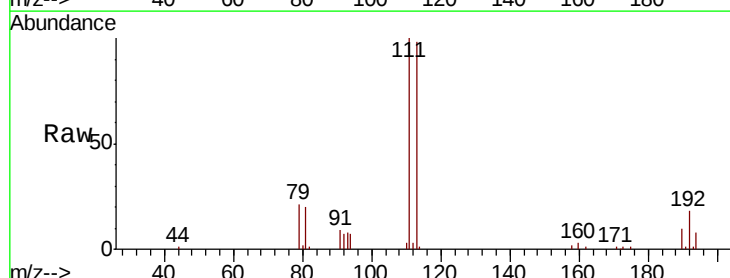


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

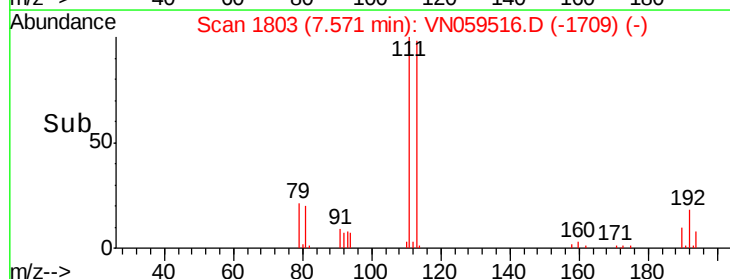
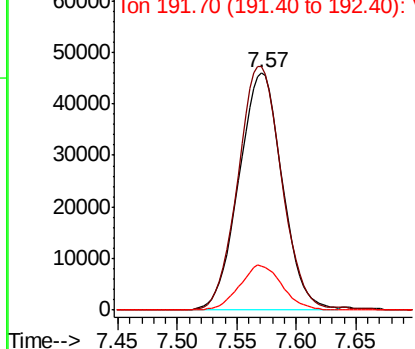


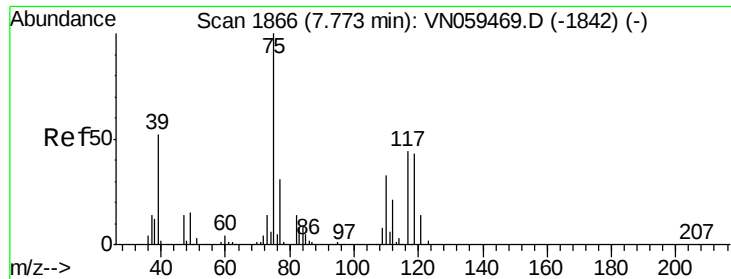
#35
 Dibromofluoromethane
 Concen: 51.986 ug/l
 RT: 7.57 min Scan# 1803
 Delta R.T. 0.00 min
 Lab File: VN059516.D
 Acq: 6 Dec 2019 15:37

Tgt Ion:113 Resp: 116178
 Ion Ratio Lower Upper
 113 100
 111 103.4 82.5 123.7
 192 18.6 16.1 24.1



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

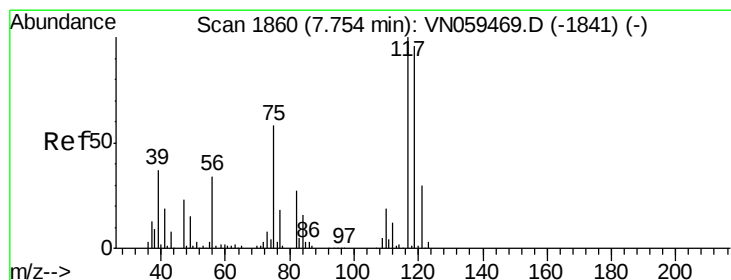
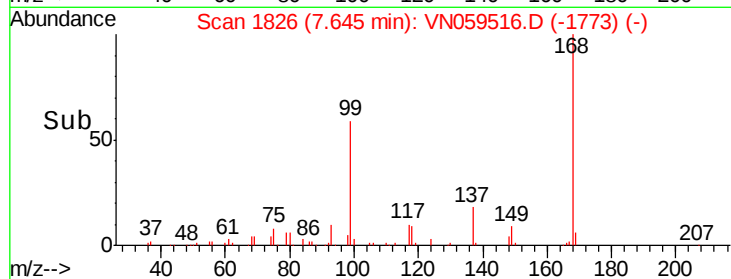
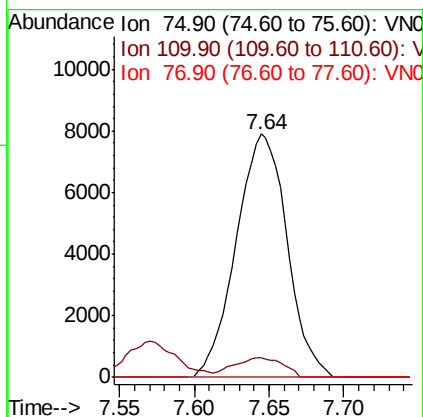
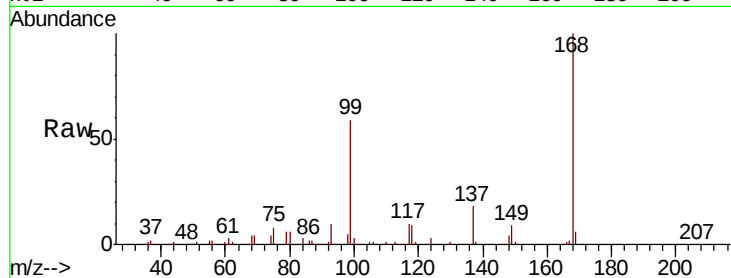




#36
 1,1-Dichloropropene
 Concen: 5.004 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN059516.D
 Acq: 6 Dec 2019 15:37

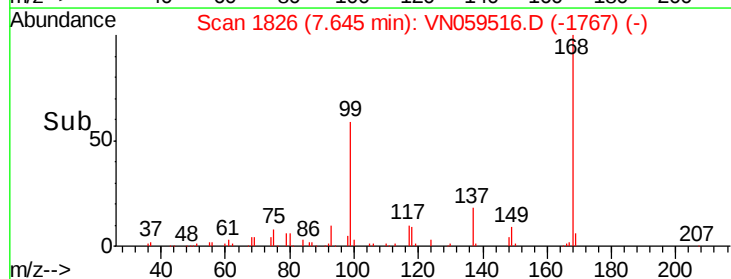
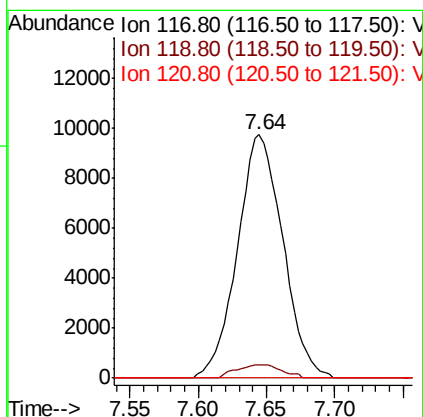
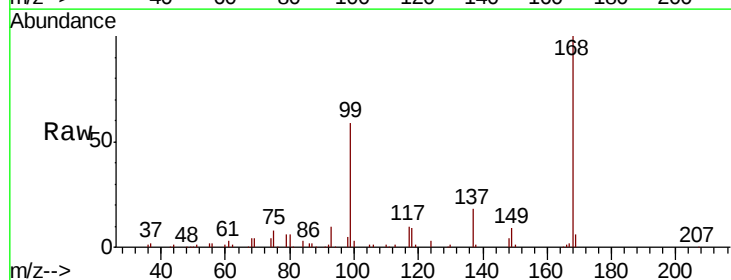
Instrument :
 MSVOA_N
 ClientSampled :

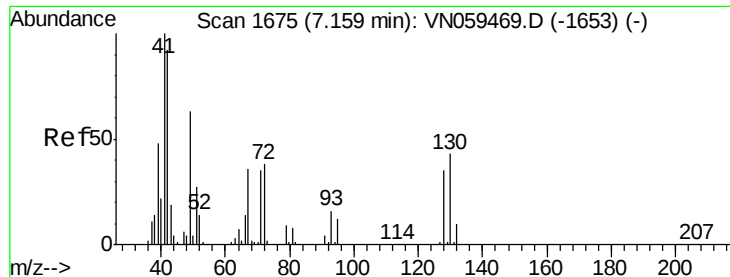
Tot Ion	75	Resp	18685
Ion Ratio	100	Lower	Upper
75	100		
110	7.7	16.9	50.7#
77	0.0	25.1	37.7#



#38
 Carbon Tetrachloride
 Concen: 6.278 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.11 min
 Lab File: VN059516.D
 Acq: 6 Dec 2019 15:37

Tgt Ion	117	Resp	22546
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
117	100		
119	5.5	76.6	114.8#
121	0.0	24.0	36.0#

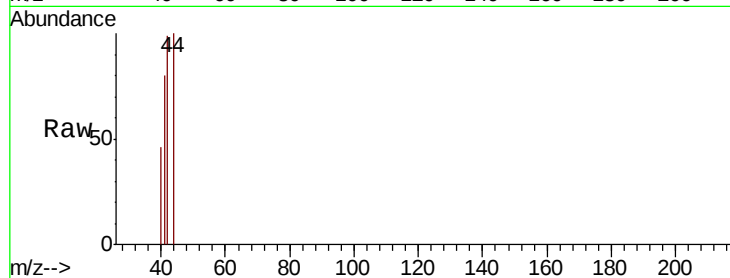




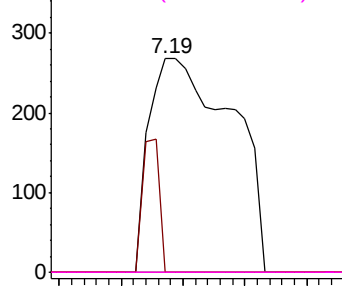
#41
Methacrylonitrile
Concen: 0.296 ug/l
RT: 7.19 min Scan# 1686
Delta R.T. 0.04 min
Lab File: VN059516.D
Acq: 6 Dec 2019 15:37

Instrument :
MSVOA_N
ClientSampled :

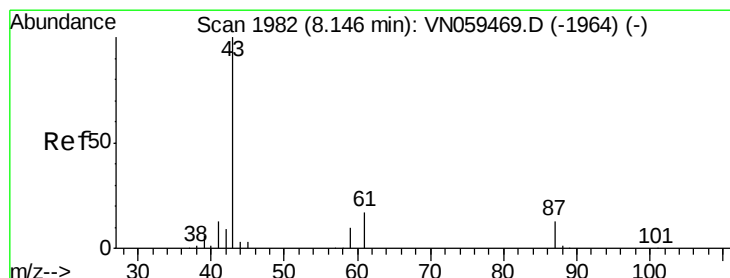
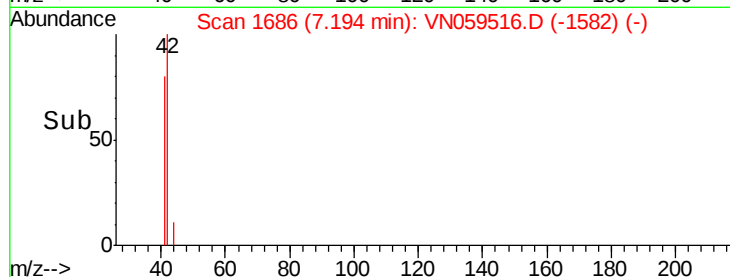
Tot Ion:	41	Resp:	501
Ion	Ratio	Lower	Upper
41	100		
39	12.8	0.0	0.0#
67	0.0	0.0	0.0
52	0.0	0.0	0.0



Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 39.00 (38.70 to 39.70): VN0
Ion 67.00 (66.70 to 67.70): VN0
Ion 52.00 (51.70 to 52.70): VN0

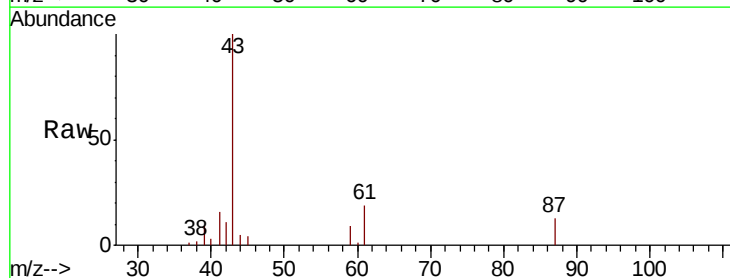


Time--> 7.16 7.18 7.20 7.22 7.24

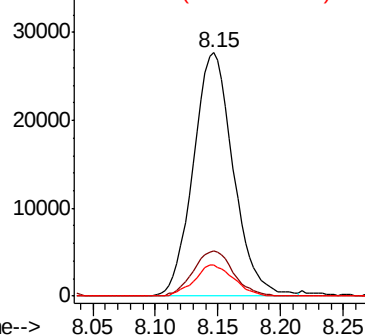


#43
Isopropyl Acetate
Concen: 9.929 ug/l
RT: 8.15 min Scan# 1982
Delta R.T. -0.00 min
Lab File: VN059516.D
Acq: 6 Dec 2019 15:37

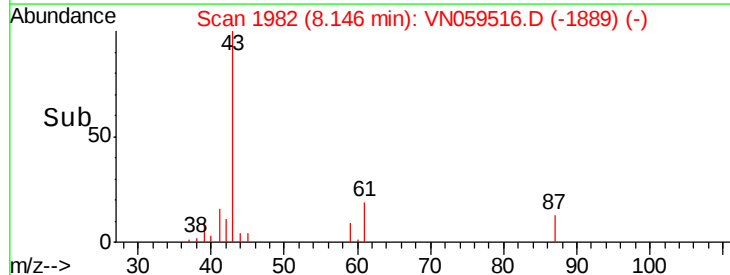
Tgt Ion:	43	Resp:	61596
Ion	Ratio	Lower	Upper
43	100		
61	18.6	21.0	31.6#
87	12.4	10.4	15.6

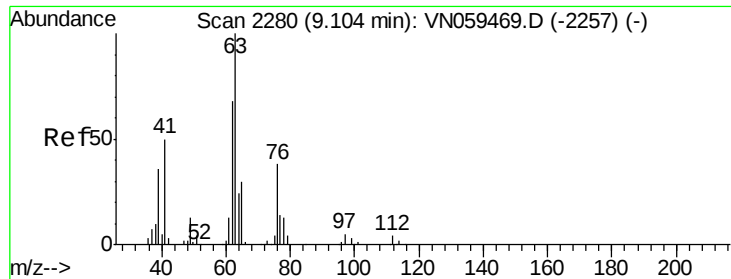


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 61.00 (60.70 to 61.70): VN0
Ion 87.00 (86.70 to 87.70): VN0



Time--> 8.05 8.10 8.15 8.20 8.25





#45

1,2-Dichloropropane

Concen: 0.405 ug/l

RT: 9.26 min Scan# 2328

Delta R.T. 0.15 min

Lab File: VN059516.D

Acq: 6 Dec 2019 15:37

Instrument :

MSVOA_N

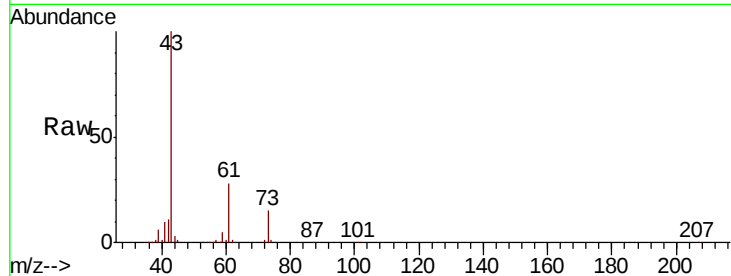
ClientSampleId :

Tot Ion: 63 Resp: 1184

Ion Ratio Lower Upper

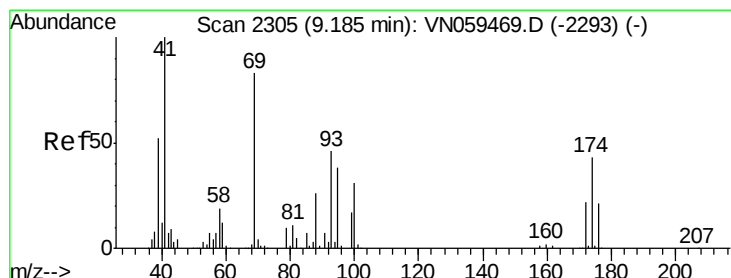
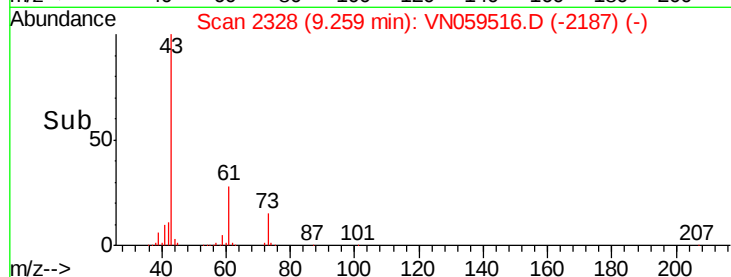
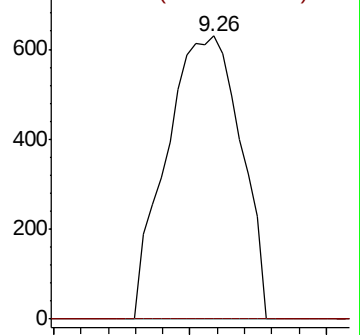
63 100

65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#48

Methyl methacrylate

Concen: 1.489 ug/l

RT: 9.16 min Scan# 2298

Delta R.T. -0.02 min

Lab File: VN059516.D

Acq: 6 Dec 2019 15:37

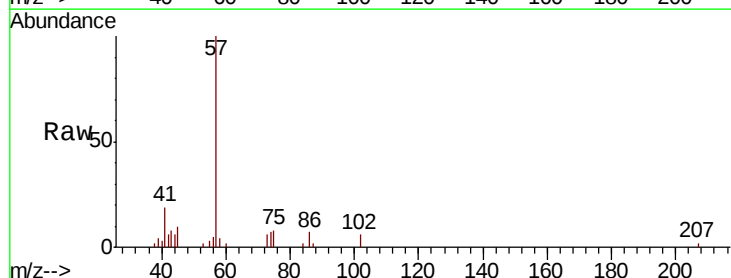
Tgt Ion: 41 Resp: 4168

Ion Ratio Lower Upper

41 100

69 0.0 68.6 103.0#

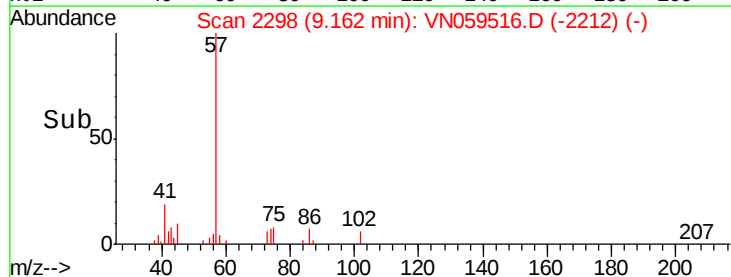
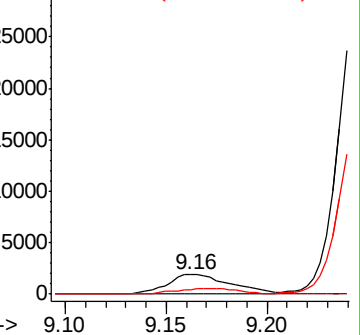
39 0.0 43.2 64.8#

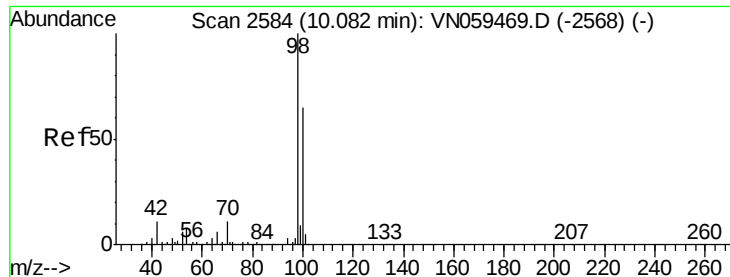


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#50

Toluene-d8

Concen: 52.790 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. -0.00 min

Lab File: VN059516.D

Acq: 6 Dec 2019 15:37

Instrument :

MSVOA_N

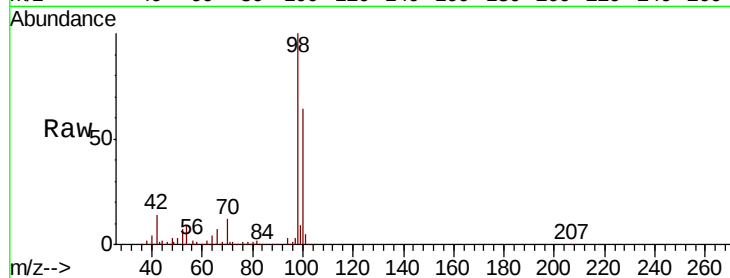
ClientSampled :

Tot Ion: 98 Resp: 465152

Ion Ratio Lower Upper

98 100

100 62.9 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VN059469.D (-2568) (-)

Ion 100.00 (99.70 to 100.70): VN059469.D (-2568) (-)

10.08

250000

200000

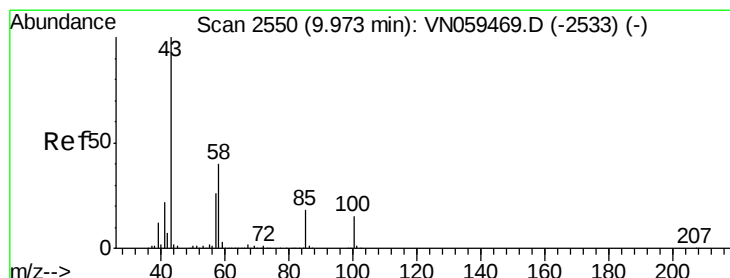
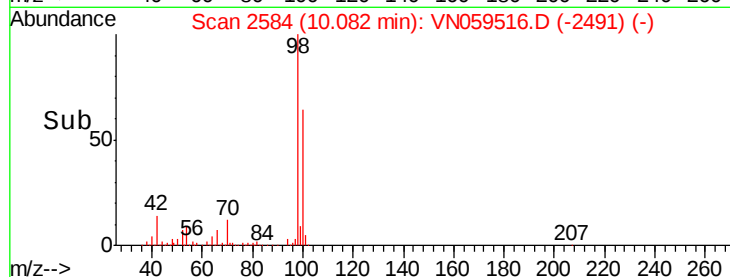
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.212 ug/l

RT: 9.97 min Scan# 2550

Delta R.T. -0.00 min

Lab File: VN059516.D

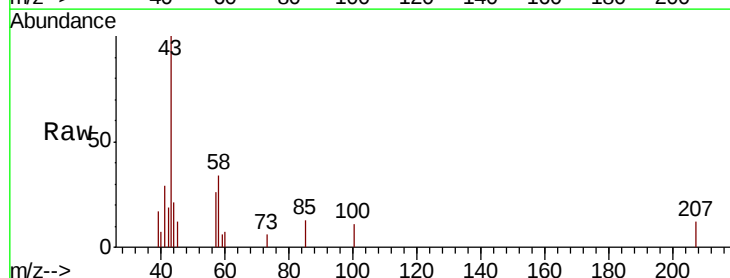
Acq: 6 Dec 2019 15:37

Tgt Ion: 43 Resp: 4462

Ion Ratio Lower Upper

43 100

58 35.9 32.1 48.1



Abundance Ion 43.00 (42.70 to 43.70): VN059469.D (-2533) (-)

Ion 58.00 (57.70 to 58.70): VN059469.D (-2533) (-)

9.97

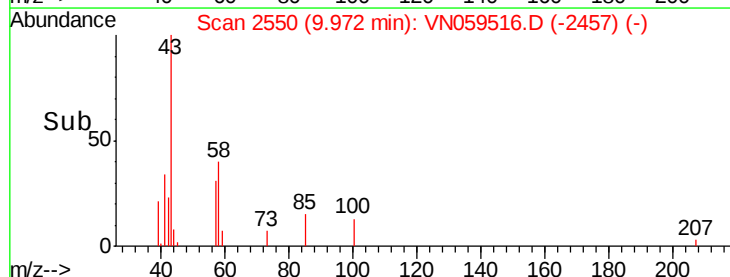
3000

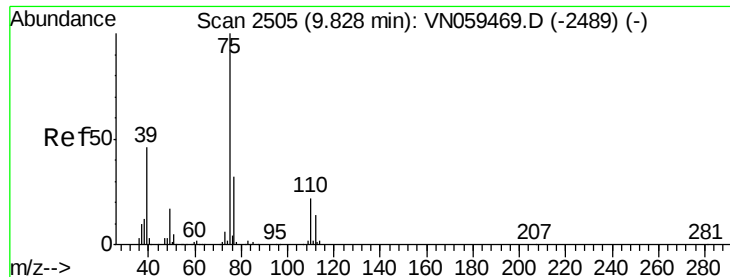
2000

1000

0

Time-->



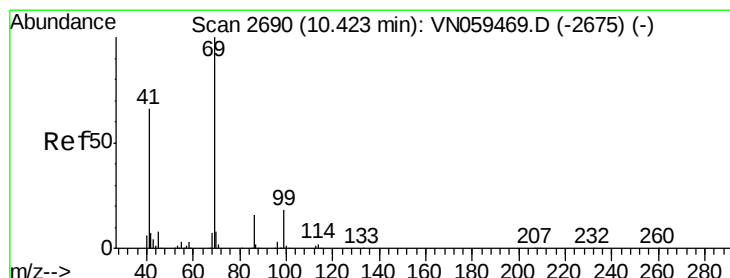
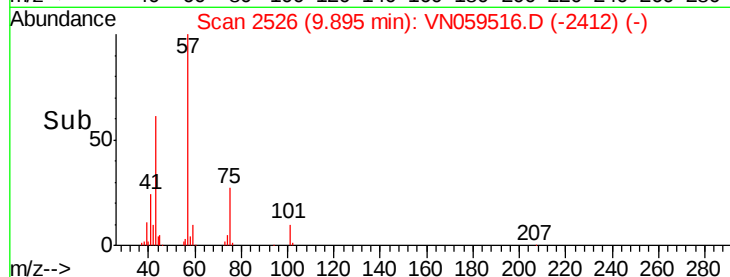
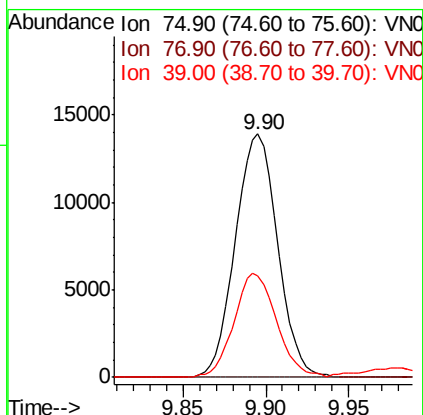
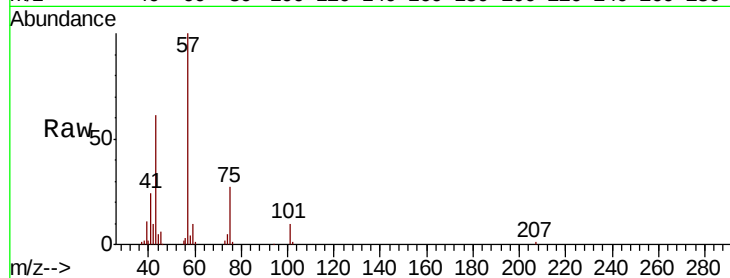


#54

cis-1,3-Dichloropropene
 Concen: 5.426 ug/l
 RT: 9.90 min Scan# 2526
 Delta R.T. 0.07 min
 Lab File: VN059516.D
 Acq: 6 Dec 2019 15:37

Instrument :
 MSVOA_N
 ClientSampleId :

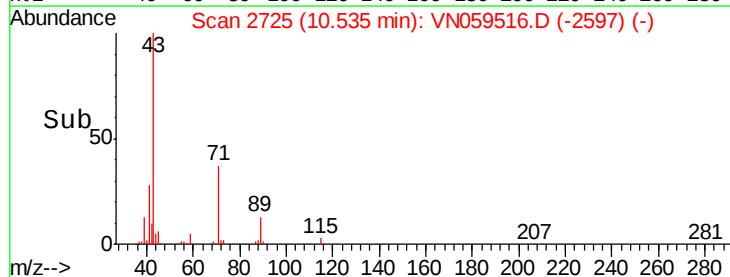
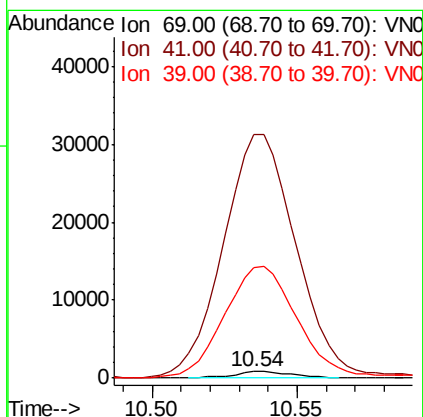
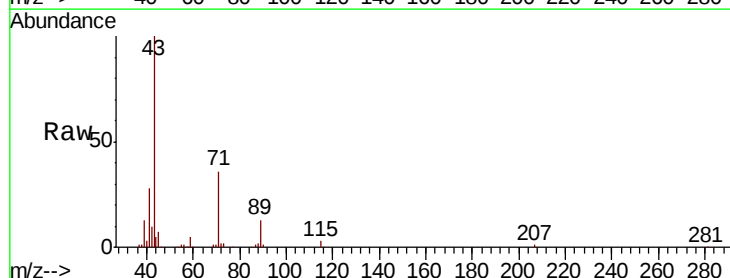
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.0	25.7	38.5#
39	41.5	36.6	54.8

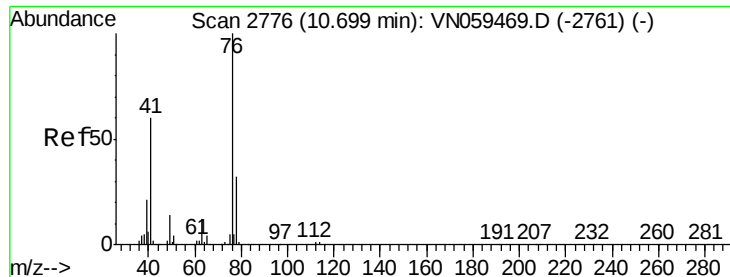


#56

Ethyl methacrylate
 Concen: 1.718 ug/l
 RT: 10.54 min Scan# 2725
 Delta R.T. 0.11 min
 Lab File: VN059516.D
 Acq: 6 Dec 2019 15:37

Tgt Ion	Ratio	Lower	Upper
69	100		
41	4755.9	52.7	79.1#
39	2196.8	25.0	37.6#

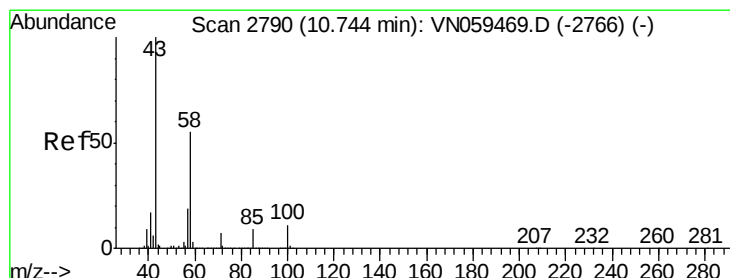
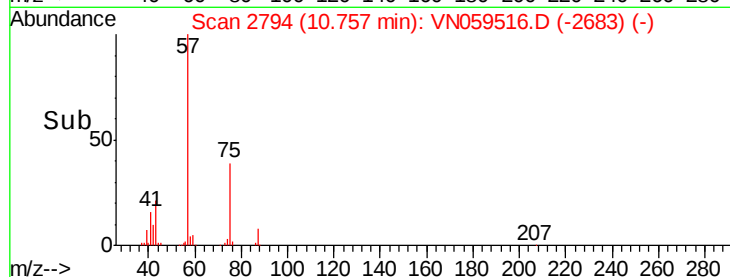
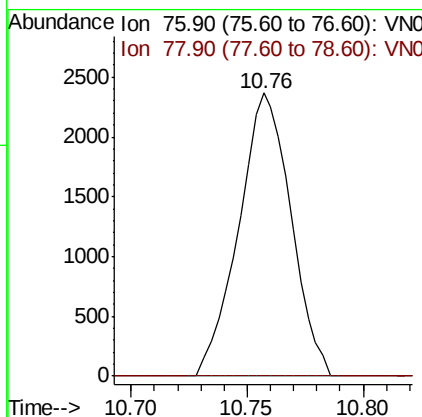
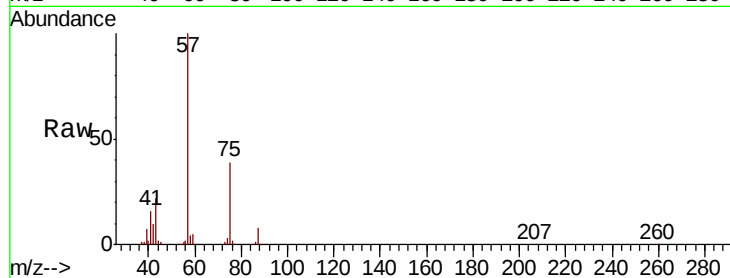




#57
 1,3-Dichloropropane
 Concen: 0.820 ug/l
 RT: 10.76 min Scan# 2794
 Delta R.T. 0.06 min
 Lab File: VN059516.D
 Acq: 6 Dec 2019 15:37

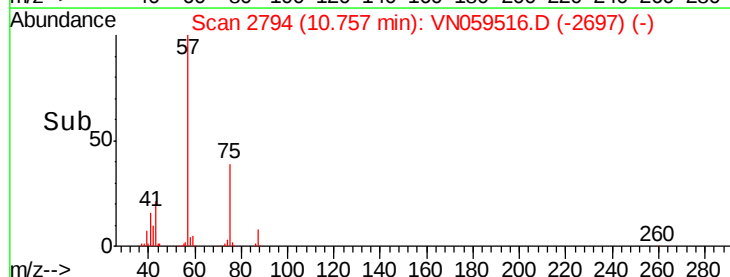
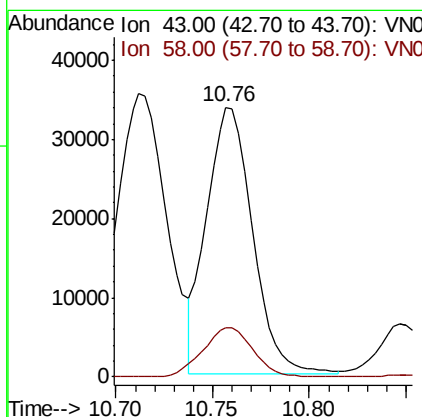
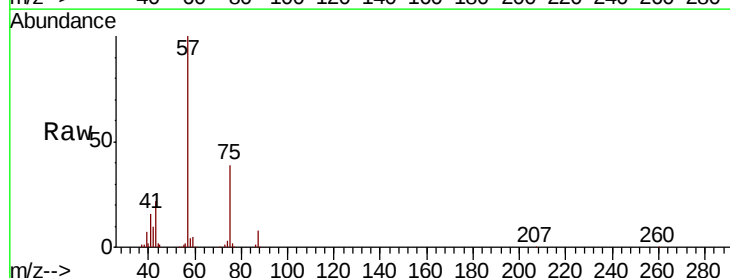
Instrument :
 MSVOA_N
 ClientSampled :

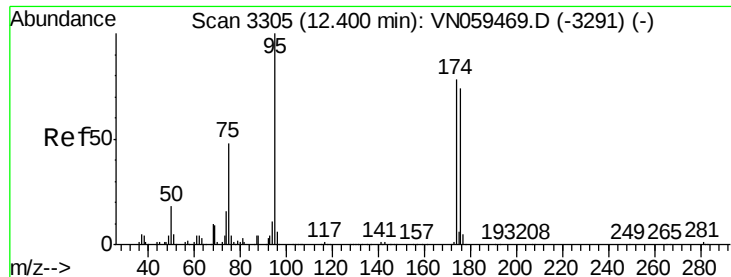
Tot Ion: 76 Resp: 3696
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#



#59
 2-Hexanone
 Concen: 20.019 ug/l
 RT: 10.76 min Scan# 2794
 Delta R.T. 0.01 min
 Lab File: VN059516.D
 Acq: 6 Dec 2019 15:37

Tgt Ion: 43 Resp: 55476
 Ion Ratio Lower Upper
 43 100
 58 20.1 27.7 83.0#





#62

4-Bromofluorobenzene

Concen: 47.579 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN059516.D

Acq: 6 Dec 2019 15:37

Instrument :

MSVOA_N

ClientSampled :

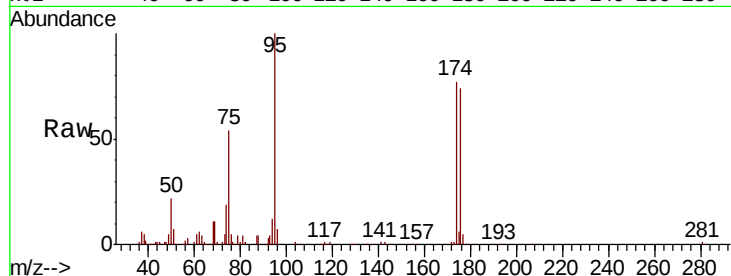
Tot Ion: 95 Resp: 146411

Ion Ratio Lower Upper

95 100

174 76.7 0.0 157.0

176 74.2 0.0 152.4

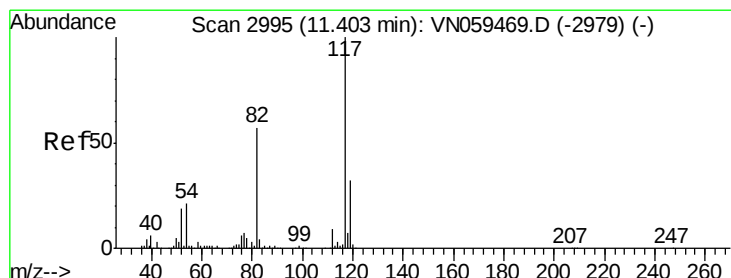
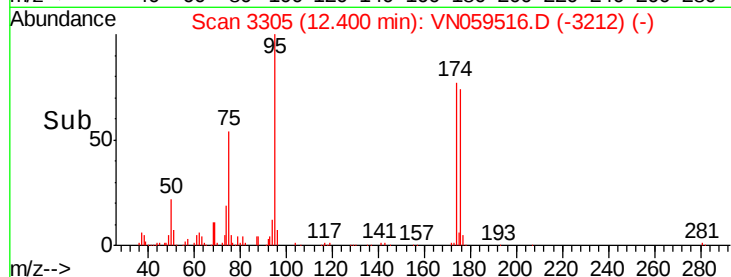


Abundance Ion 94.90 (94.60 to 95.60): VN059469.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN059469.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN059469.D (-3291) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2995

Delta R.T. -0.00 min

Lab File: VN059516.D

Acq: 6 Dec 2019 15:37

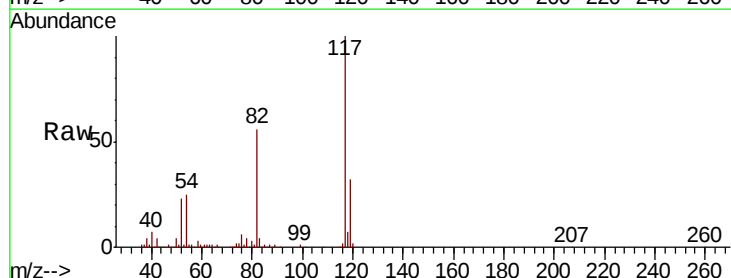
Tgt Ion: 117 Resp: 335741

Ion Ratio Lower Upper

117 100

82 56.5 45.8 68.8

119 32.0 25.4 38.0

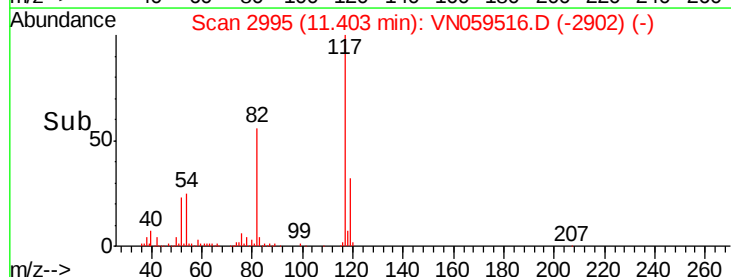


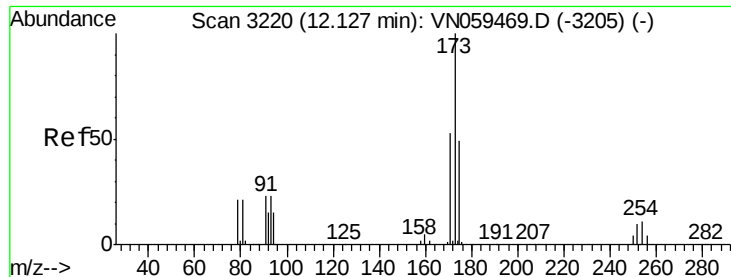
Abundance Ion 116.90 (116.60 to 117.60): VN059469.D (-2979) (-)

Ion 82.00 (81.70 to 82.70): VN059469.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN059469.D (-2979) (-)

Time-->





#71

Bromoform

Concen: 0.431 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN059516.D

Acq: 6 Dec 2019 15:37

Instrument :

MSVOA_N

ClientSampleId :

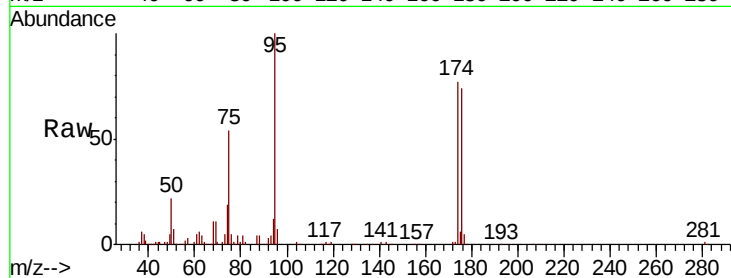
Tot Ion:173 Resp: 885

Ion Ratio Lower Upper

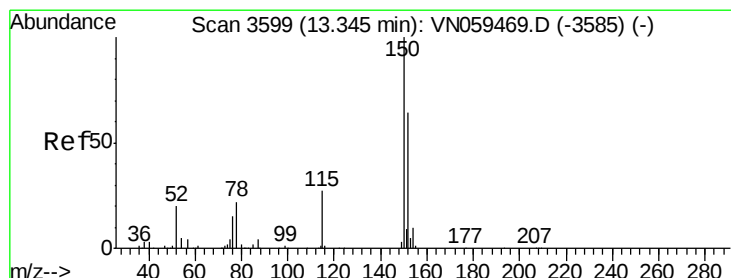
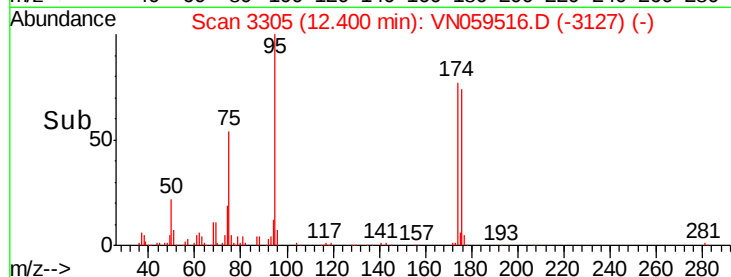
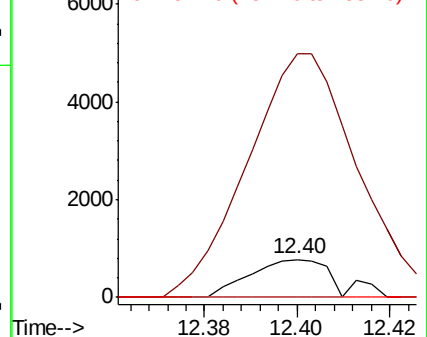
173 100

175 817.3 24.3 73.0#

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: 13.35 min Scan# 3599

Delta R.T. -0.00 min

Lab File: VN059516.D

Acq: 6 Dec 2019 15:37

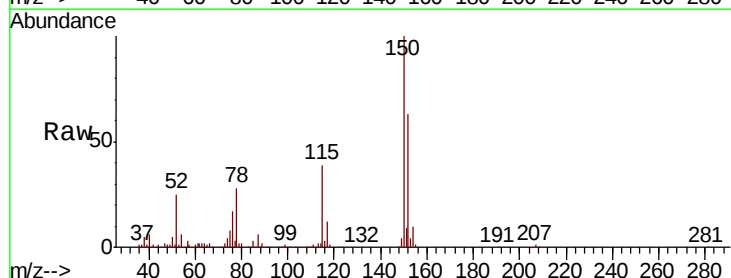
Tgt Ion:152 Resp: 122188

Ion Ratio Lower Upper

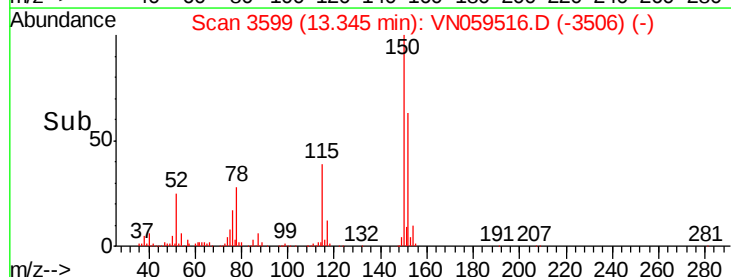
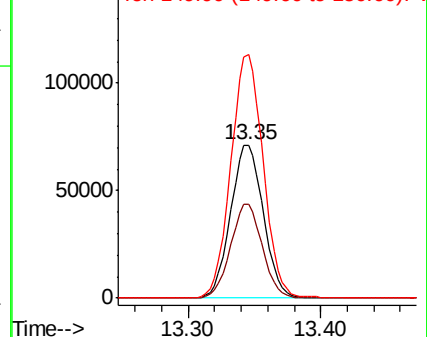
152 100

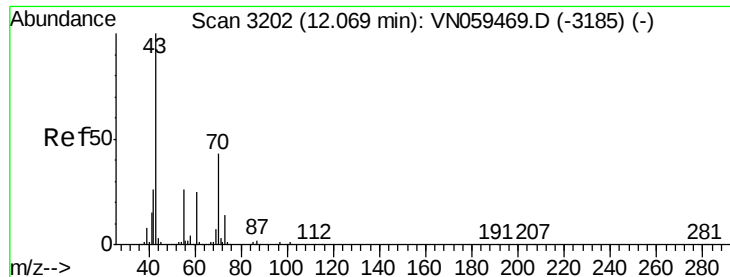
115 59.6 29.2 87.6

150 157.3 0.0 352.8



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-amvl acetate

Concen: 0.810 ug/l

RT: 12.03 min Scan# 3190

Delta R.T. -0.04 min

Lab File: VN059516.D

Acq: 6 Dec 2019 15:37

Instrument :

MSVOA_N

ClientSampled :

Tot Ion: 43 Resp: 3199

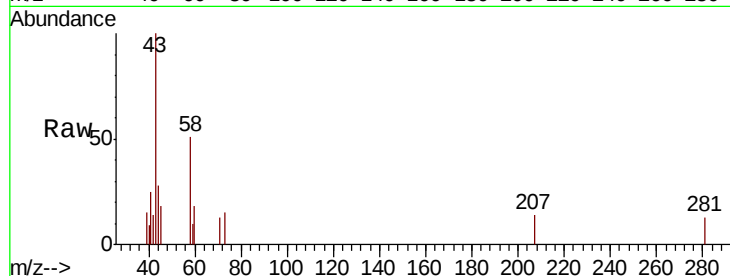
Ion Ratio Lower Upper

43 100

70 0.0 34.2 51.2#

55 0.0 20.6 31.0#

61 0.0 19.3 28.9#

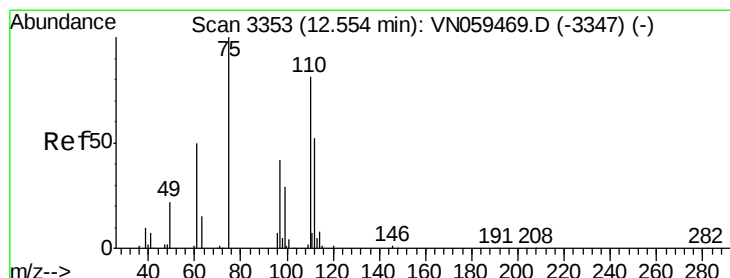
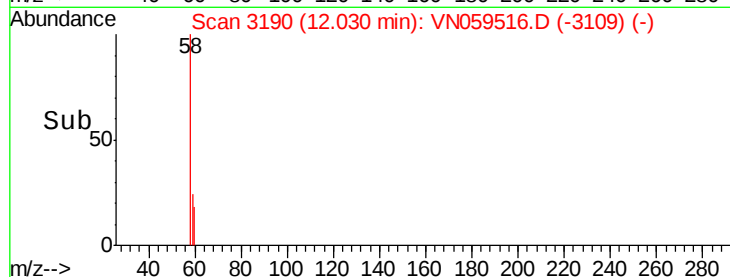
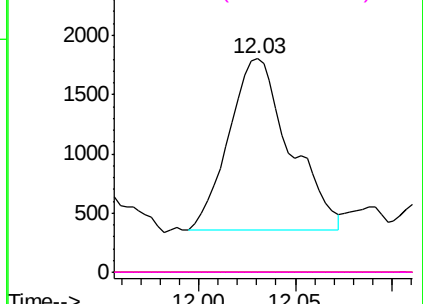


Abundance Ion 43.00 (42.70 to 43.70): VN0

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



#76

1,2,3-Trichloropropane

Concen: 26.049 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN059516.D

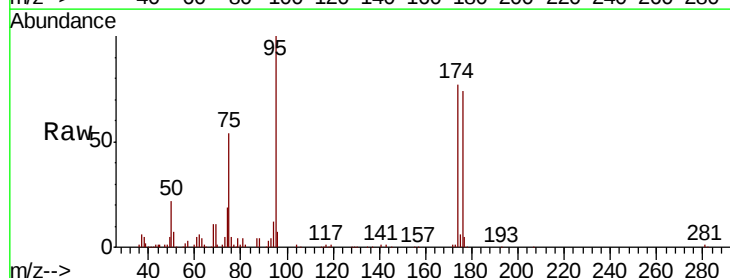
Acq: 6 Dec 2019 15:37

Tgt Ion: 75 Resp: 79141

Ion Ratio Lower Upper

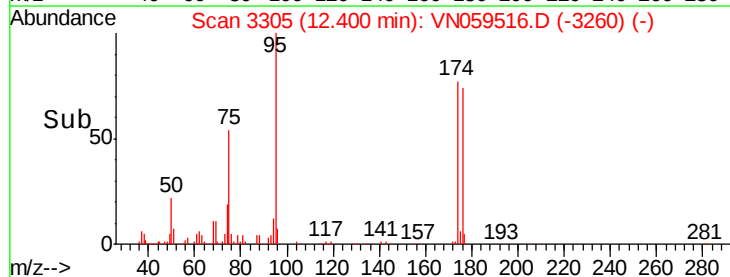
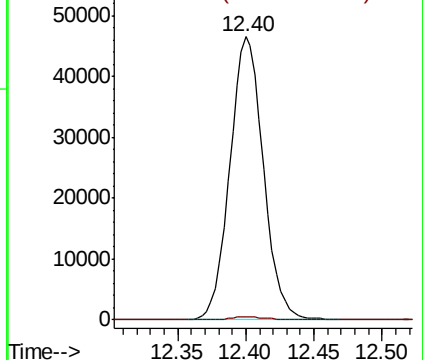
75 100

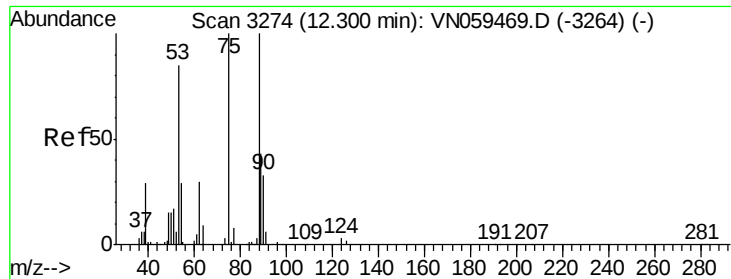
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

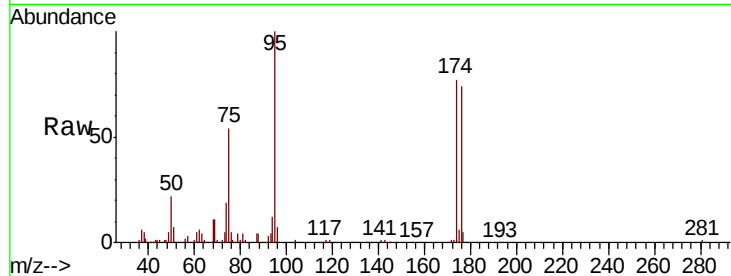




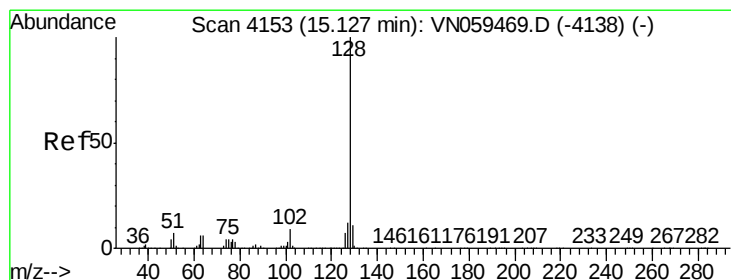
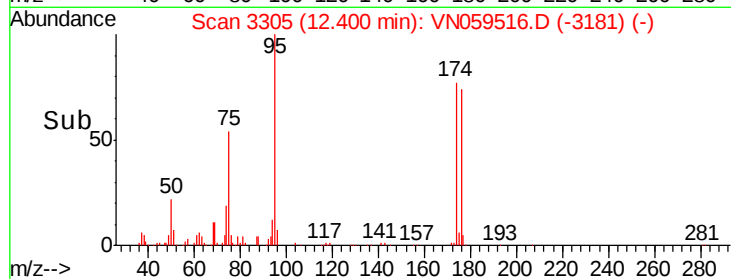
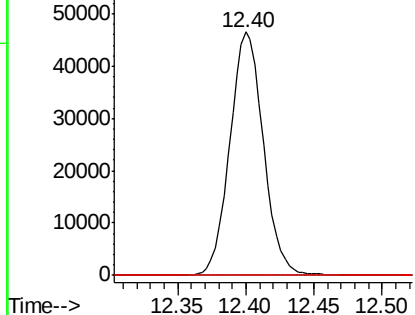
#81
trans-1,4-Dichloro-2-butene
Concen: 68.363 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.10 min
Lab File: VN059516.D
Acq: 6 Dec 2019 15:37

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 75 Resp: 79141
Ion Ratio Lower Upper
75 100
53 0.0 69.8 104.6#
89 0.0 35.2 52.8#

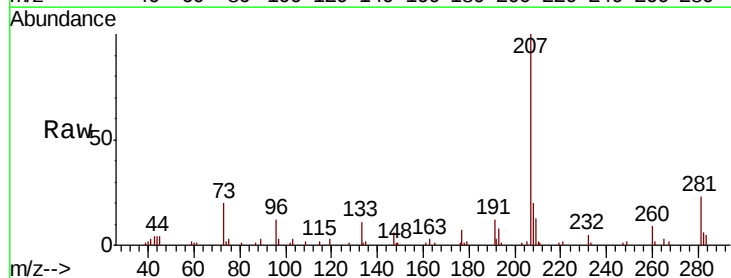


Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 53.00 (52.70 to 53.70): VN0
Ion 88.90 (88.60 to 89.60): VN0



#95
Naphthalene
Concen: 2.436 ug/l
RT: 15.14 min Scan# 4156
Delta R.T. 0.01 min
Lab File: VN059516.D
Acq: 6 Dec 2019 15:37

Tgt Ion: 128 Resp: 63
Ion Ratio Lower Upper
128 100
127 0.0 10.2 15.4#
129 0.0 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

