

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021320\
 Data File : VN060090.D
 Acq On : 13 Feb 2020 13:28
 Operator : JC/MD
 Sample : L1509-11
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 14 04:55:59 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N021220W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 12 14:12:21 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	201846	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	321420	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	307531	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	141583	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	119215	48.54	ug/l	0.00
Spiked Amount			Recovery	=	97.08%	
35) Dibromofluoromethane	7.57	113	97003	49.10	ug/l	0.00
Spiked Amount			Recovery	=	98.20%	
50) Toluene-d8	10.08	98	393091	50.52	ug/l	0.00
Spiked Amount			Recovery	=	101.04%	
62) 4-Bromofluorobenzene	12.40	95	141722	49.57	ug/l	0.00
Spiked Amount			Recovery	=	99.14%	

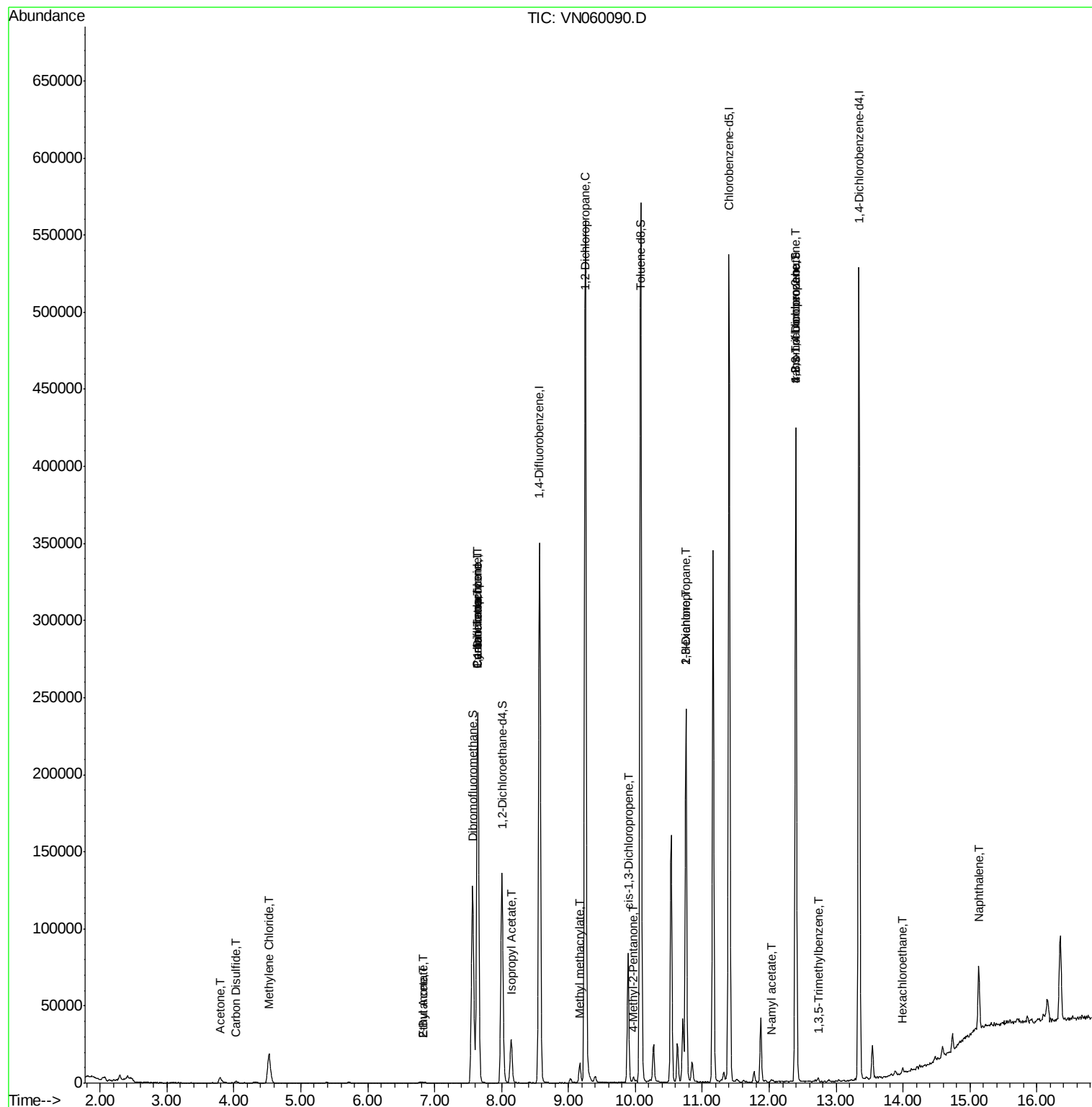
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.80	43	6852	6.396	ug/l	100
17) Carbon Disulfide	4.03	76	2320	0.403	ug/l #	76
20) Methylene Chloride	4.53	84	15027	7.030	ug/l	97
25) 2-Butanone	6.83	43	900	0.668	ug/l #	46
31) Cyclohexane	7.64	56	3998	1.151	ug/l #	22
36) 1,1-Dichloropropene	7.64	75	14691	4.935	ug/l #	49
37) Ethyl Acetate	6.83	43	900	0.334	ug/l #	68
38) Carbon Tetrachloride	7.64	117	19474	6.023	ug/l #	16
43) Isopropyl Acetate	8.14	43	34382	7.475	ug/l #	88
45) 1,2-Dichloropropane	9.25	63	707	0.323	ug/l #	43
48) Methyl methacrylate	9.17	41	1787	0.866	ug/l #	9
51) 4-Methyl-2-Pentanone	9.97	43	1661	0.624	ug/l #	79
54) cis-1,3-Dichloropropene	9.89	75	14965	4.008	ug/l #	61
57) 1,3-Dichloropropane	10.76	76	2665	0.731	ug/l #	43
59) 2-Hexanone	10.75	43	34999	17.019	ug/l #	51
74) N-amyl acetate	12.03	43	1449	0.380	ug/l #	43
76) 1,2,3-Trichloropropane	12.40	75	73641	27.186	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	1795	0.204	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.40	75	73641	66.565	ug/l #	12
90) Hexachloroethane	13.99	117	2530	1.451	ug/l #	8
92) 1,2-Dibromo-3-Chloropropan	14.27	75	90	Below Cal	#	1
95) Naphthalene	15.13	128	36813	5.103	ug/l	100

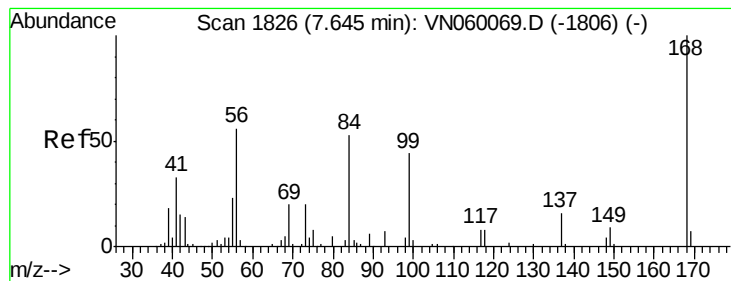
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN021320\
Data File : VN060090.D
Acq On : 13 Feb 2020 13:28
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Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Feb 14 04:55:59 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N021220W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 12 14:12:21 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN060090.D

Acq: 13 Feb 2020 13:28

Instrument :

MSVOA_N

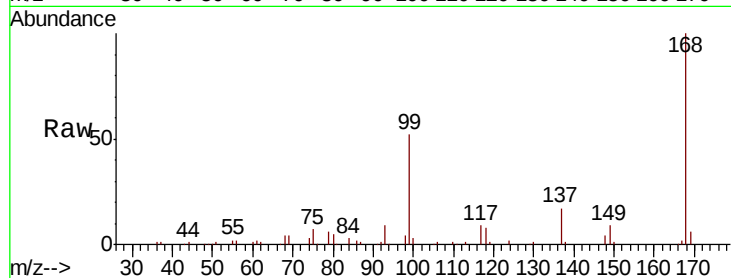
ClientSampled :

Tot Ion:168 Resp: 201846

Ion Ratio Lower Upper

168 100

99 51.6 42.7 64.1



Abundance Ion 167.90 (167.60 to 168.60): VN060069.D (-1806) (-)

Ion 98.90 (98.60 to 99.60): VN060069.D (-1806) (-)

7.64

80000

60000

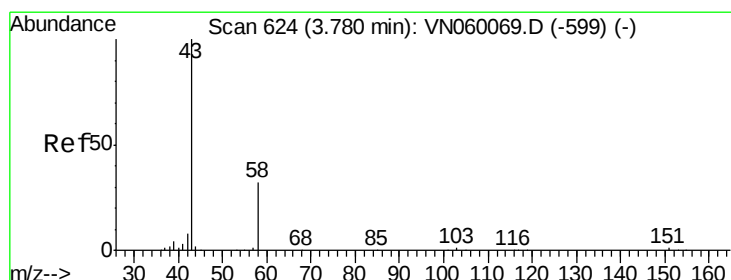
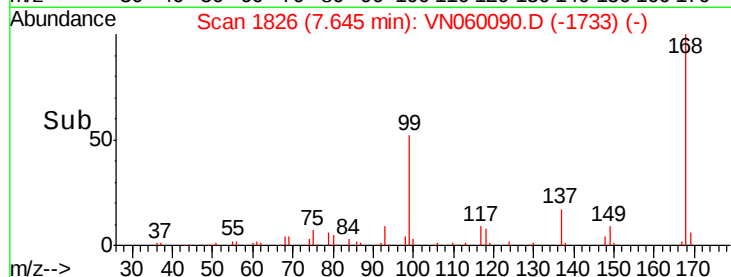
40000

20000

0

7.60 7.70

Time-->



#16

Acetone

Concen: 6.396 ug/l

RT: 3.80 min Scan# 629

Delta R.T. 0.02 min

Lab File: VN060090.D

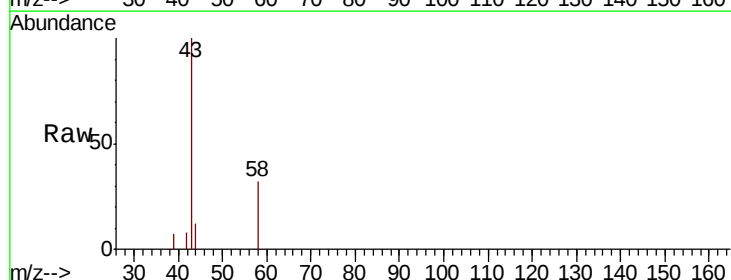
Acq: 13 Feb 2020 13:28

Tgt Ion: 43 Resp: 6852

Ion Ratio Lower Upper

43 100

58 31.6 25.2 37.8



Abundance Ion 43.00 (42.70 to 43.70): VN060069.D (-599) (-)

Ion 58.00 (57.70 to 58.70): VN060069.D (-599) (-)

3.80

2500

2000

1500

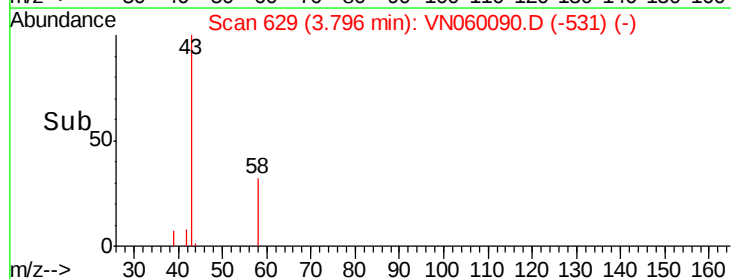
1000

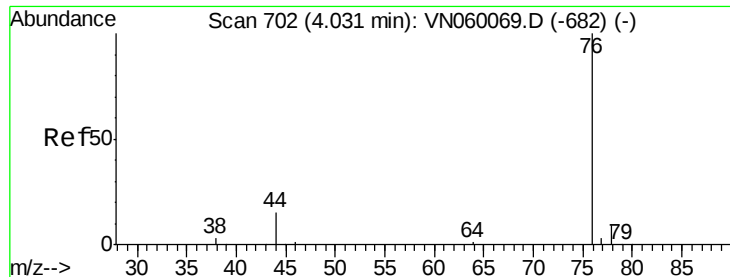
500

0

3.70 3.75 3.80 3.85 3.90

Time-->

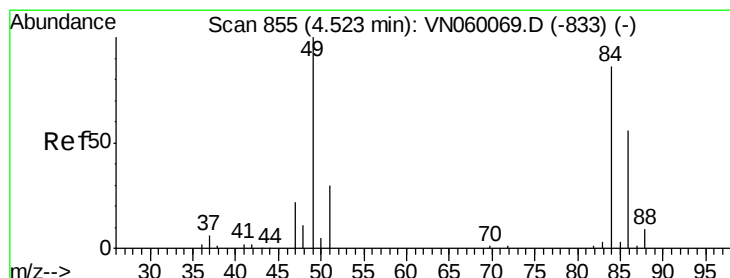
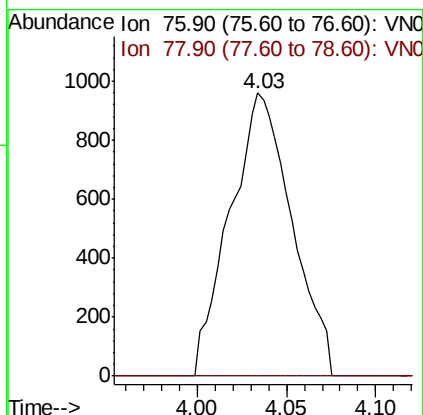
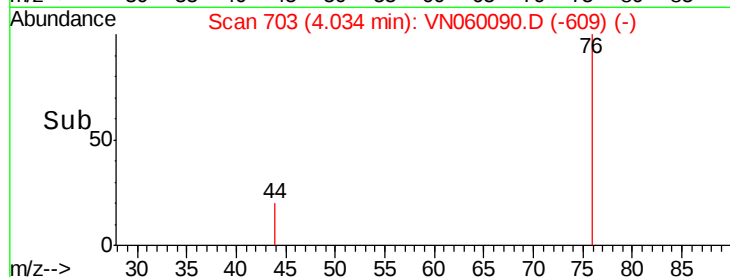
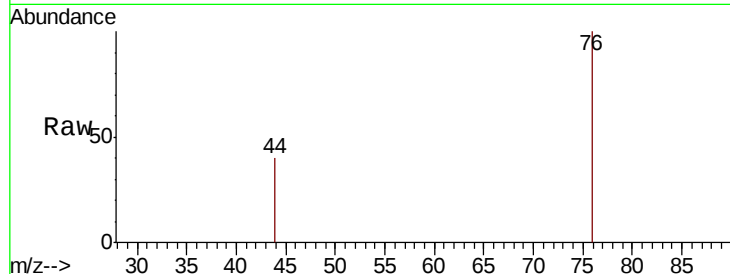




#17
Carbon Disulfide
Concen: 0.403 ug/l
RT: 4.03 min Scan# 703
Delta R.T. 0.00 min
Lab File: VN060090.D
Acq: 13 Feb 2020 13:28

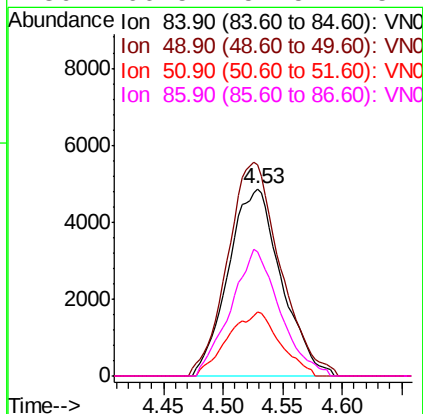
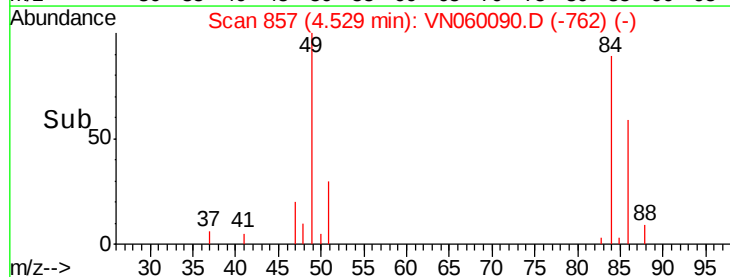
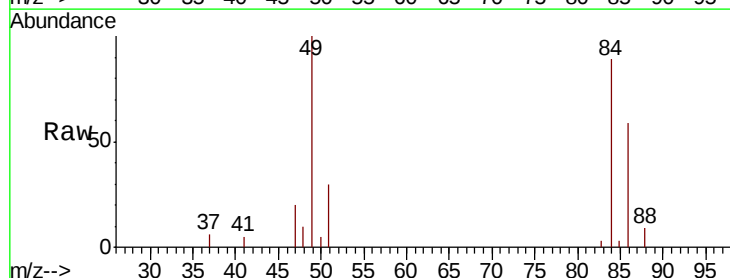
Instrument :
MSVOA_N
ClientSampled :

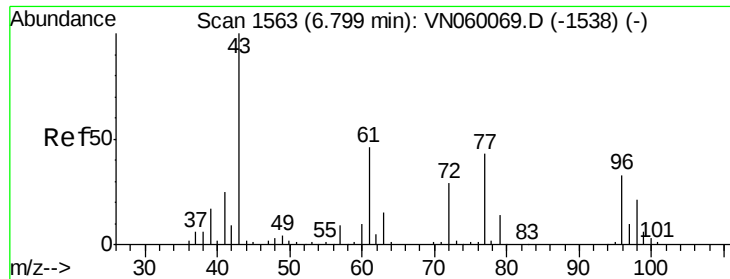
Tot Ion: 76 Resp: 2320
Ion Ratio Lower Upper
76 100
78 0.0 7.0 10.6#



#20
Methylene Chloride
Concen: 7.030 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.01 min
Lab File: VN060090.D
Acq: 13 Feb 2020 13:28

Tgt Ion: 84 Resp: 15027
Ion Ratio Lower Upper
84 100
49 112.5 93.4 140.0
51 33.9 28.4 42.6
86 66.5 52.5 78.7

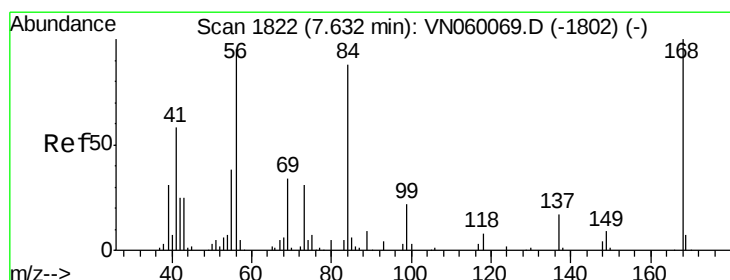
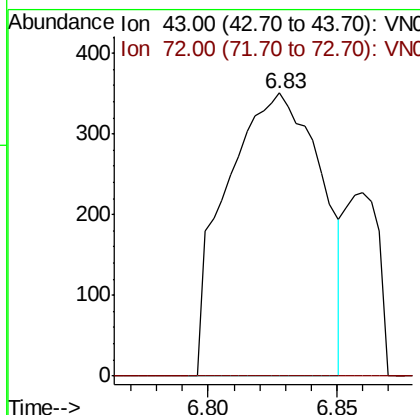
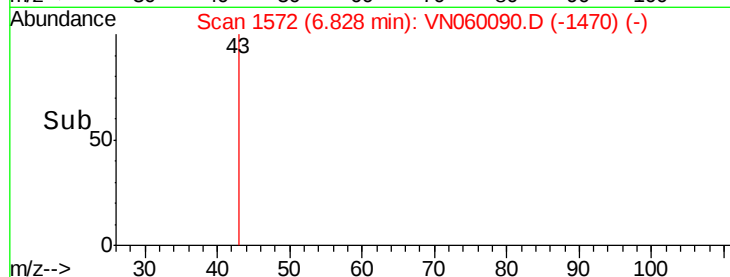
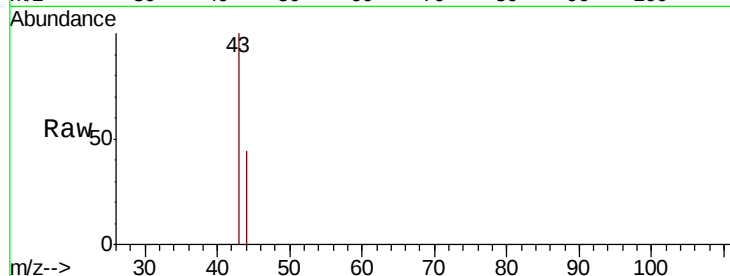




#25
2-Butanone
Concen: 0.668 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. 0.03 min
Lab File: VN060090.D
Acq: 13 Feb 2020 13:28

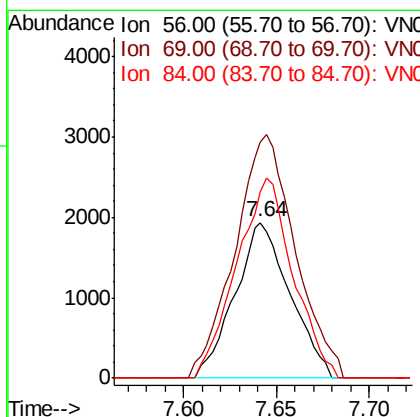
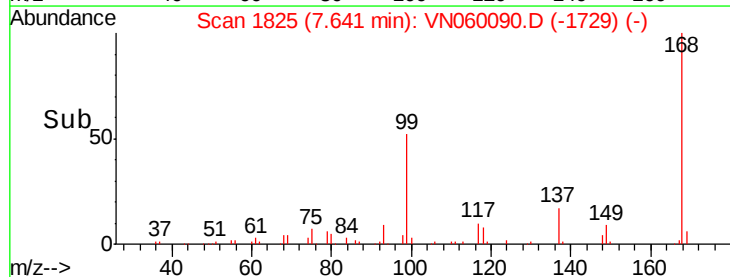
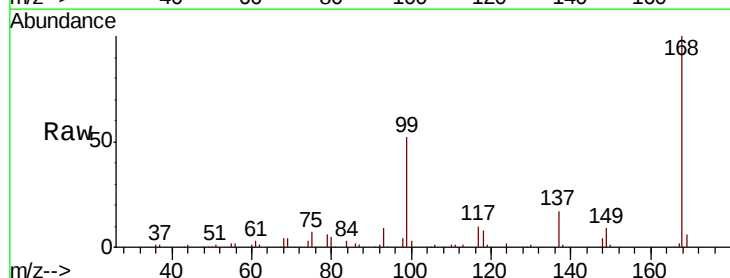
Instrument :
MSVOA_N
ClientSampleId :

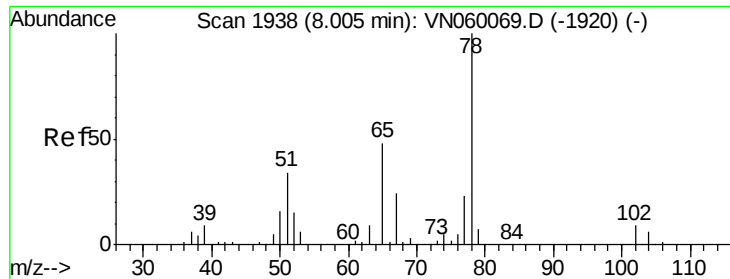
Tot Ion: 43 Resp: 900
Ion Ratio Lower Upper
43 100
72 0.0 23.3 34.9#



#31
Cyclohexane
Concen: 1.151 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.01 min
Lab File: VN060090.D
Acq: 13 Feb 2020 13:28

Tgt Ion: 56 Resp: 3998
Ion Ratio Lower Upper
56 100
69 151.7 28.3 42.5#
84 119.5 72.6 108.8#





#33

1,2-Dichloroethane-d4

Concen: 48.538 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. -0.00 min

Lab File: VN060090.D

Acq: 13 Feb 2020 13:28

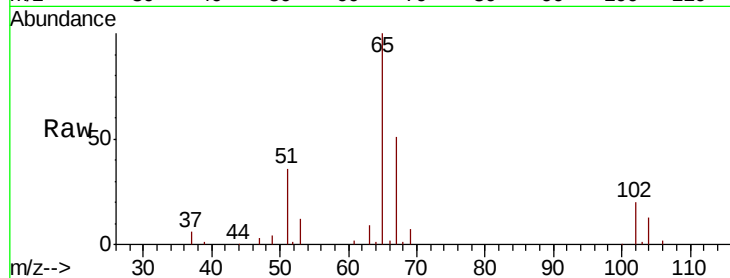
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 65 Resp: 119215

Ion Ratio Lower Upper

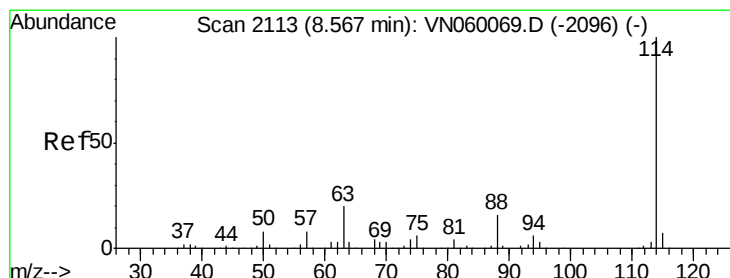
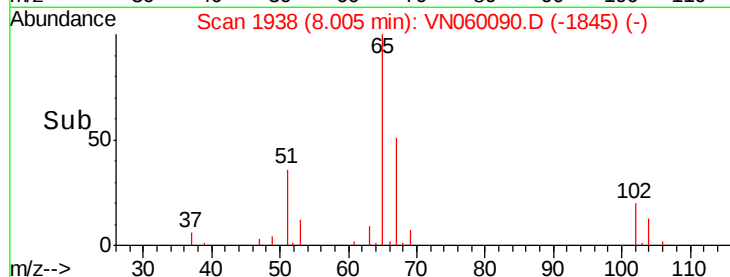
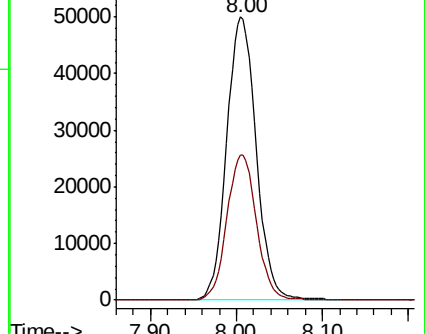
65 100

67 51.2 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VN060069.D (-1920) (-)

Ion 66.90 (66.60 to 67.60): VN060069.D (-1920) (-)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. -0.00 min

Lab File: VN060090.D

Acq: 13 Feb 2020 13:28

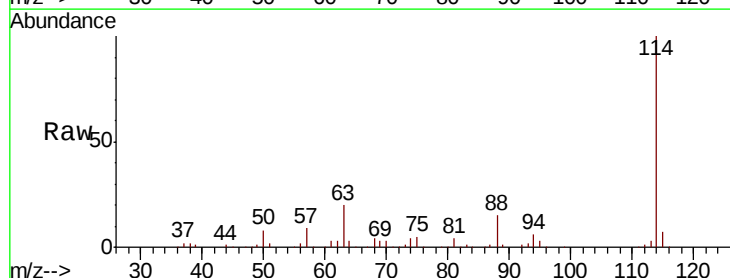
Tgt Ion: 114 Resp: 321420

Ion Ratio Lower Upper

114 100

63 20.2 0.0 40.0

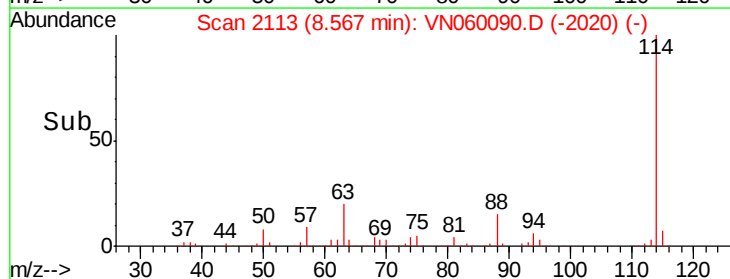
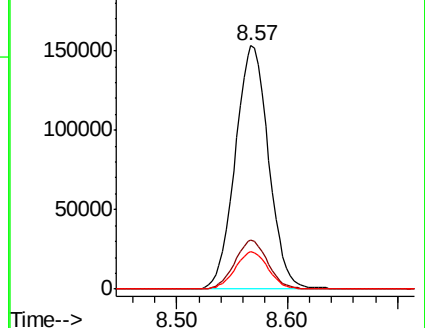
88 15.2 0.0 31.6

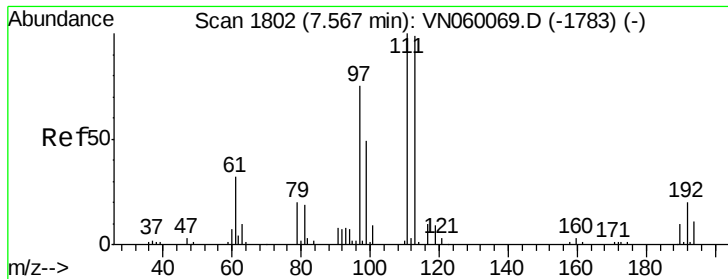


Abundance Ion 113.90 (113.60 to 114.60): VN060069.D (-2096) (-)

Ion 63.00 (62.70 to 63.70): VN060069.D (-2096) (-)

Ion 87.90 (87.60 to 88.60): VN060069.D (-2096) (-)

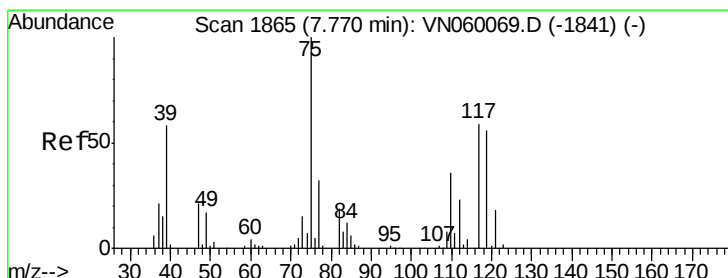
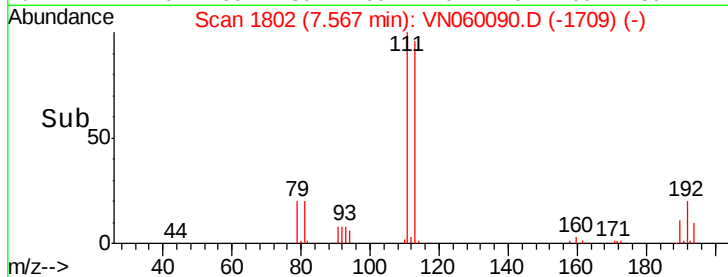
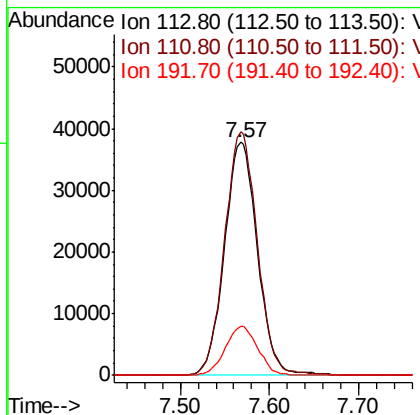
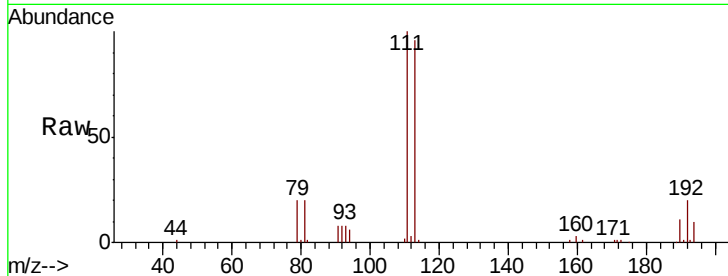




#35
 Dibromofluoromethane
 Concen: 49.096 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. -0.00 min
 Lab File: VN060090.D
 Acq: 13 Feb 2020 13:28

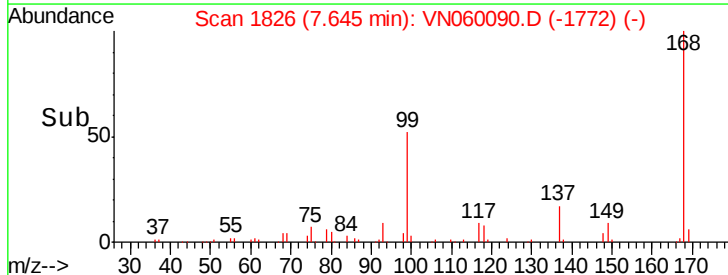
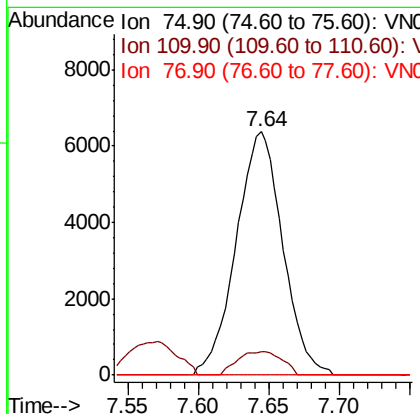
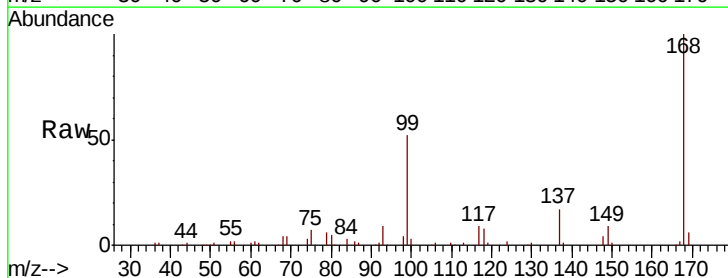
Instrument :
 MSVOA_N
 ClientSampled :

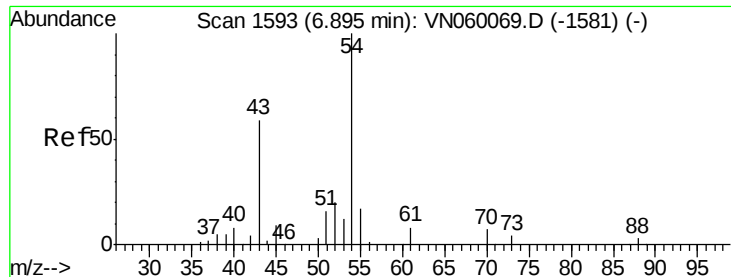
Tot Ion:113 Resp: 97003
 Ion Ratio Lower Upper
 113 100
 111 103.8 81.4 122.2
 192 20.5 16.2 24.2



#36
 1,1-Dichloropropene
 Concen: 4.935 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN060090.D
 Acq: 13 Feb 2020 13:28

Tgt Ion: 75 Resp: 14691
 Ion Ratio Lower Upper
 75 100
 110 9.3 18.1 54.3#
 77 0.0 25.1 37.7#

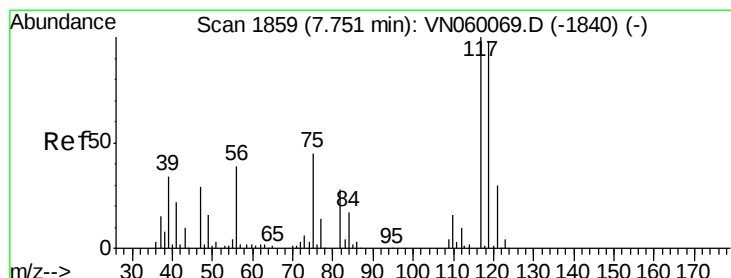
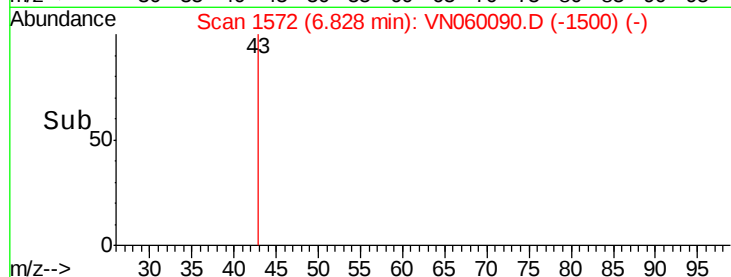
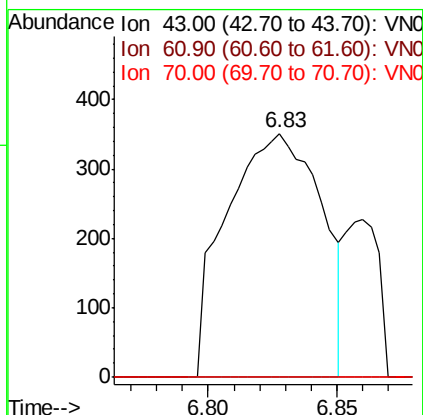
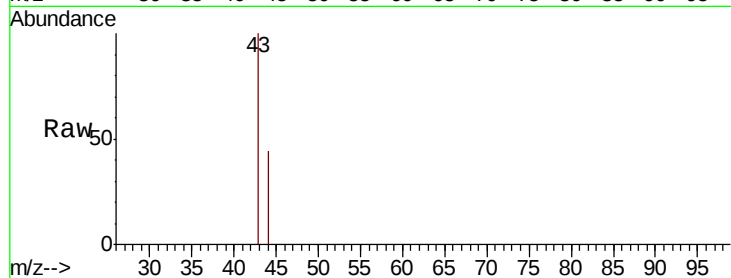




#37
Ethyl Acetate
Concen: 0.334 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. -0.07 min
Lab File: VN060090.D
Acq: 13 Feb 2020 13:28

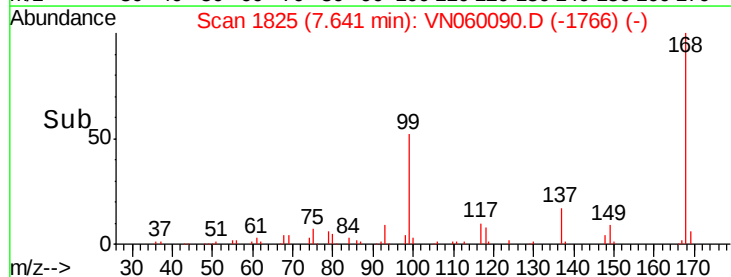
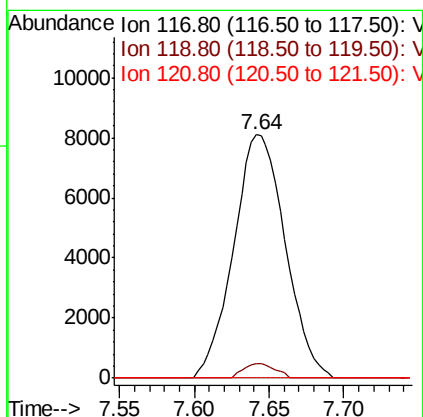
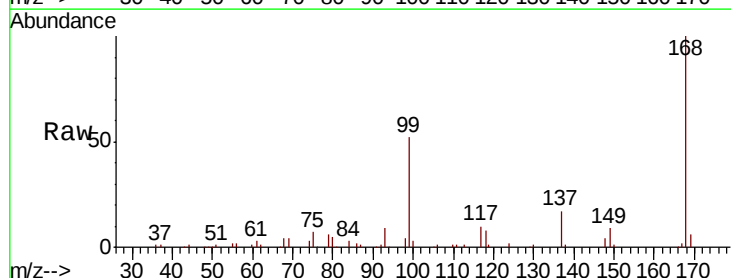
Instrument :
MSVOA_N
ClientSampled :

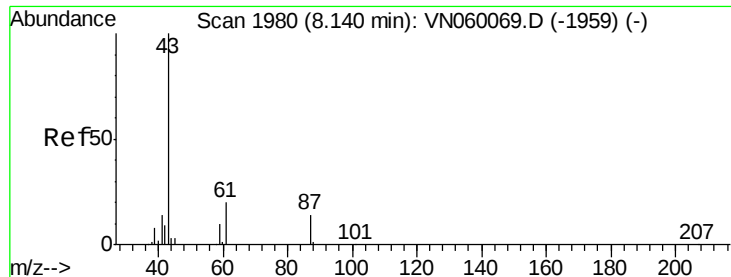
Tot Ion: 43 Resp: 900
Ion Ratio Lower Upper
43 100
61 0.0 11.4 17.2#
70 0.0 8.7 13.1#



#38
Carbon Tetrachloride
Concen: 6.023 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.11 min
Lab File: VN060090.D
Acq: 13 Feb 2020 13:28

Tgt Ion: 117 Resp: 19474
Ion Ratio Lower Upper
117 100
119 5.8 78.2 117.4#
121 0.0 24.2 36.2#





#43

Isopropyl Acetate

Concen: 7.475 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. -0.00 min

Lab File: VN060090.D

Acq: 13 Feb 2020 13:28

Instrument :

MSVOA_N

ClientSampleId :

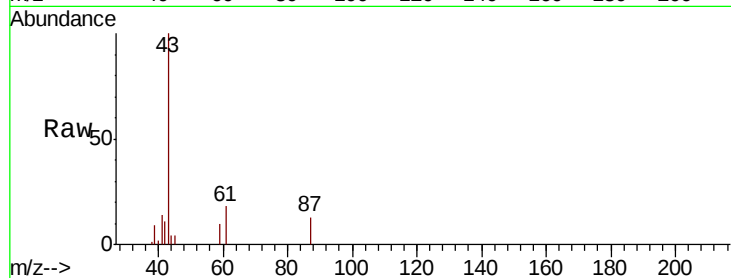
Tot Ion: 43 Resp: 34382

Ion Ratio Lower Upper

43 100

61 18.5 21.8 32.6#

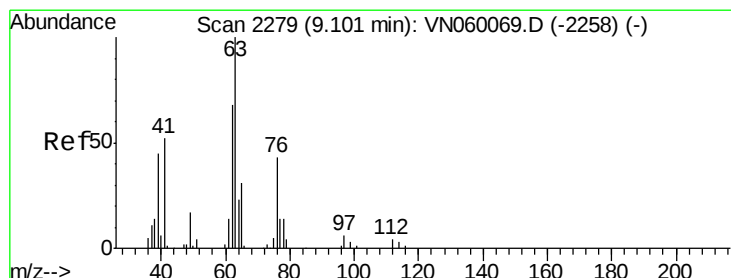
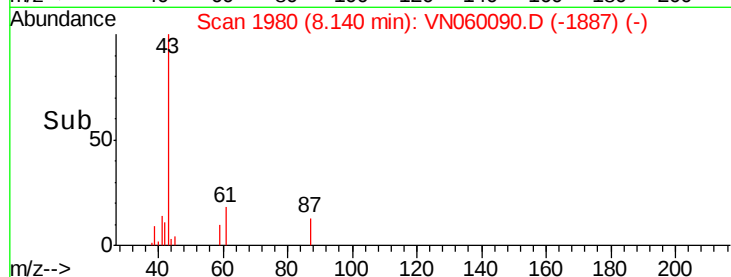
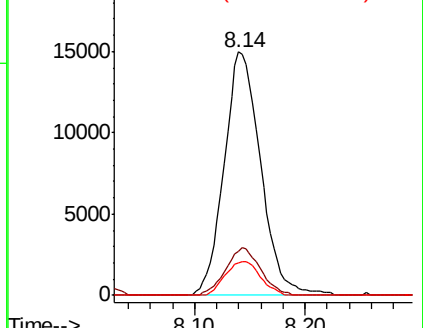
87 13.3 11.4 17.2



Abundance Ion 43.00 (42.70 to 43.70): VN060069.D (-1959) (-)

Ion 61.00 (60.70 to 61.70): VN060069.D (-1959) (-)

Ion 87.00 (86.70 to 87.70): VN060069.D (-1959) (-)



#45

1,2-Dichloropropane

Concen: 0.323 ug/l

RT: 9.25 min Scan# 2324

Delta R.T. 0.14 min

Lab File: VN060090.D

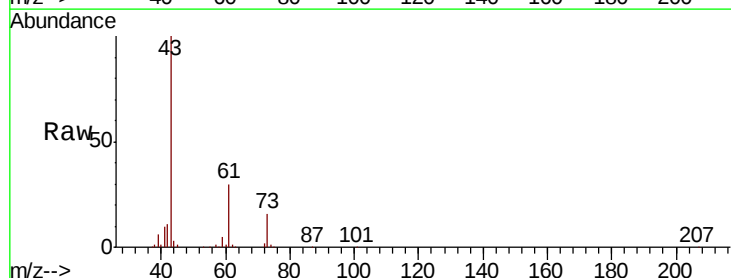
Acq: 13 Feb 2020 13:28

Tgt Ion: 63 Resp: 707

Ion Ratio Lower Upper

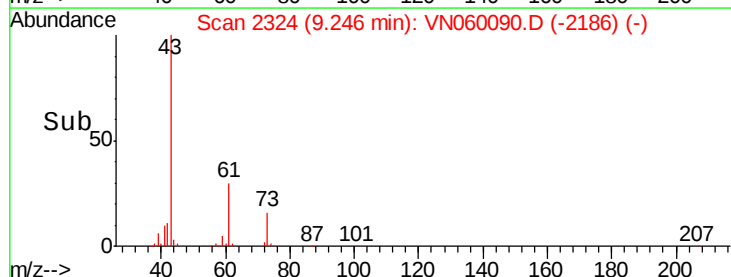
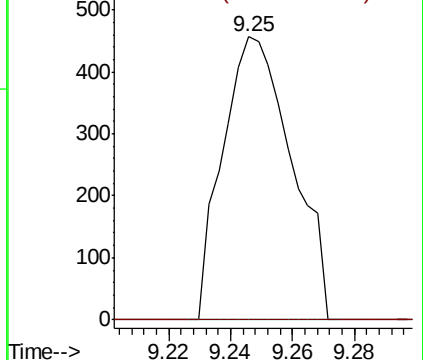
63 100

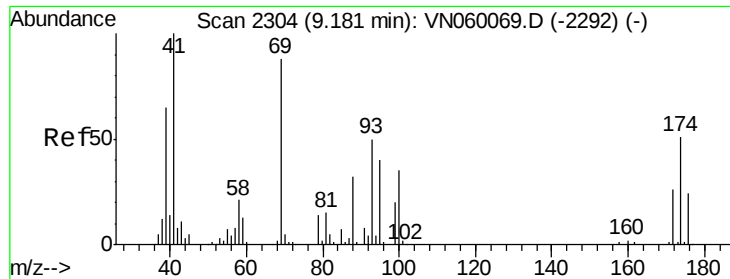
65 0.0 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VN060069.D (-2258) (-)

Ion 64.90 (64.60 to 65.60): VN060069.D (-2258) (-)

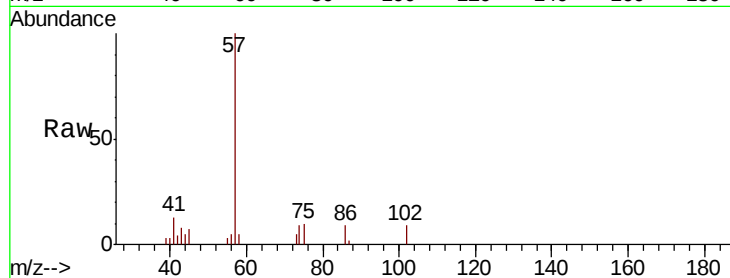




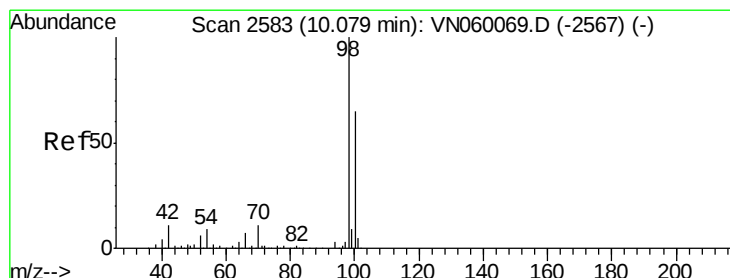
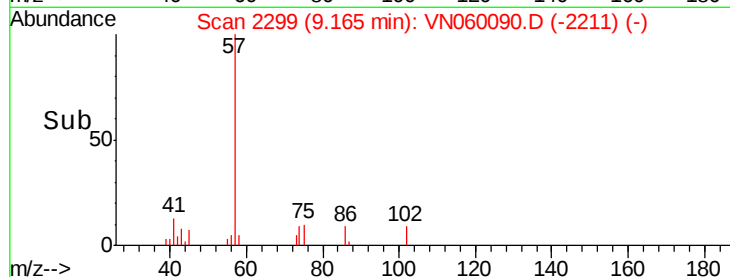
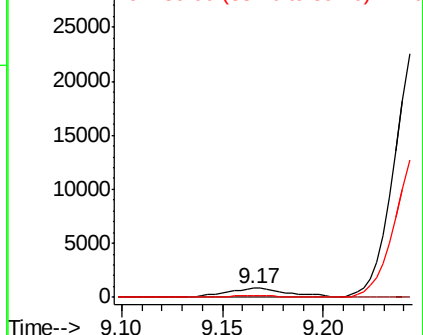
#48
Methyl methacrylate
Concen: 0.866 ug/l
RT: 9.17 min Scan# 2299
Delta R.T. -0.02 min
Lab File: VN060090.D
Acq: 13 Feb 2020 13:28

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 1787
Ion Ratio Lower Upper
41 100
69 0.0 72.0 108.0#
39 0.0 54.1 81.1#

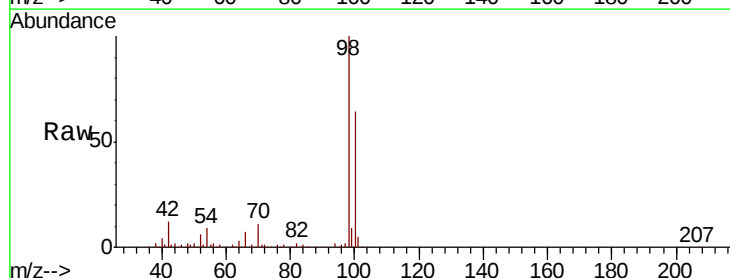


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

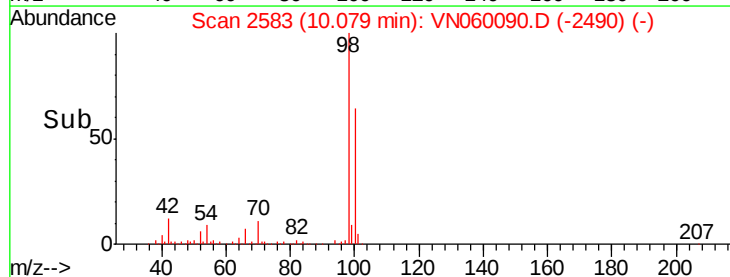
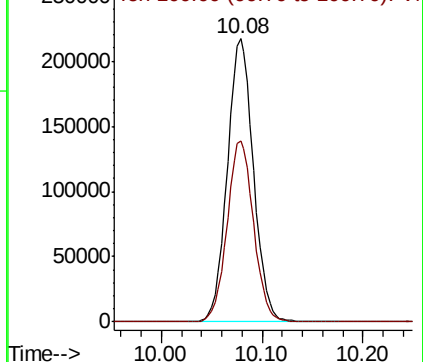


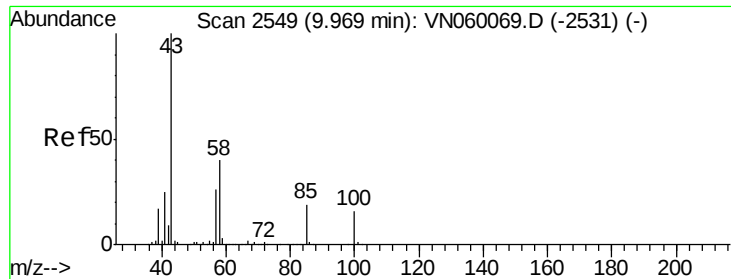
#50
Toluene-d8
Concen: 50.523 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. -0.00 min
Lab File: VN060090.D
Acq: 13 Feb 2020 13:28

Tgt Ion: 98 Resp: 393091
Ion Ratio Lower Upper
98 100
100 64.5 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

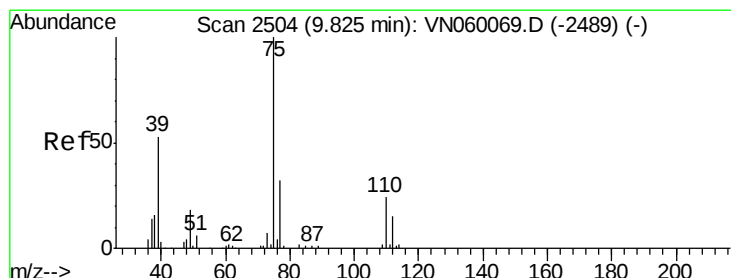
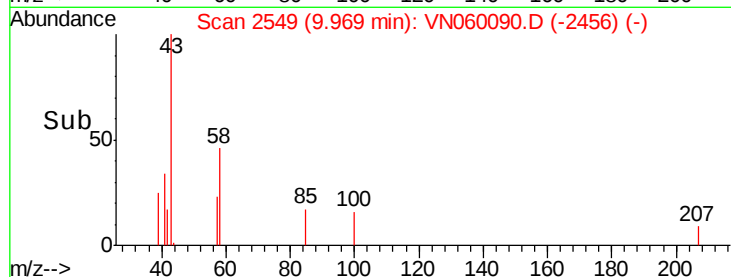
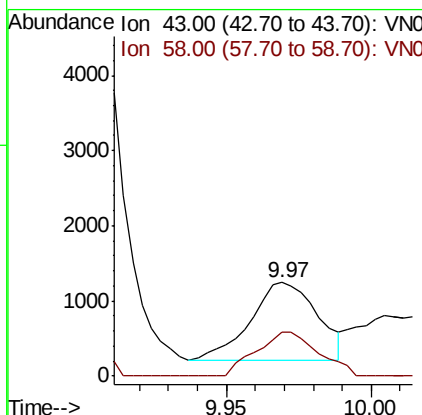
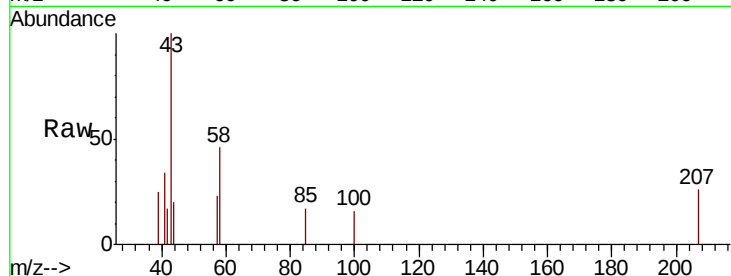




#51
 4-Methyl-2-Pentanone
 Concen: 0.624 ug/l
 RT: 9.97 min Scan# 2549
 Delta R.T. -0.00 min
 Lab File: VN060090.D
 Acq: 13 Feb 2020 13:28

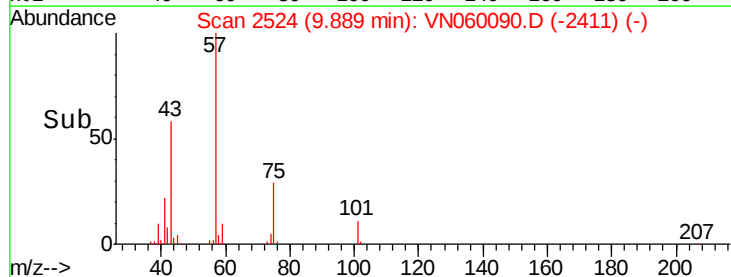
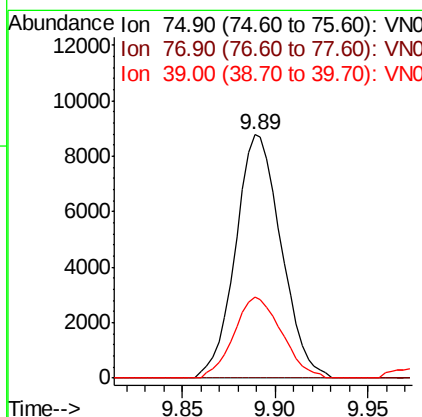
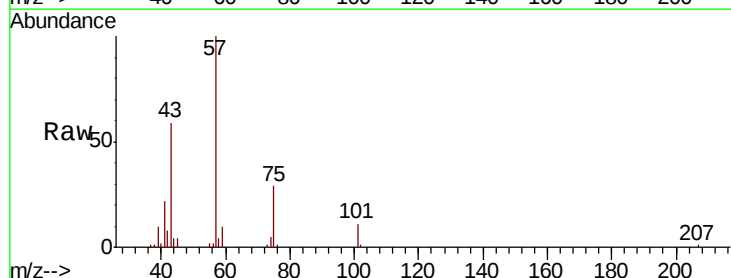
Instrument :
 MSVOA_N
 ClientSampled :

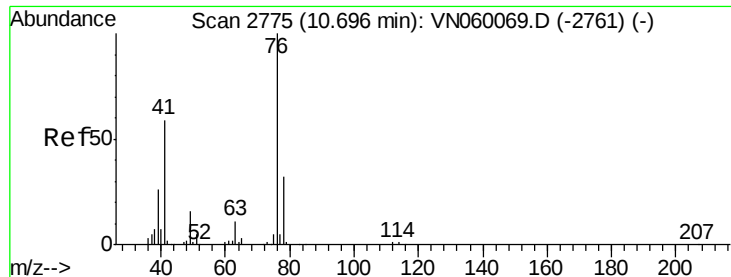
Tot Ion: 43 Resp: 1661
 Ion Ratio Lower Upper
 43 100
 58 52.9 31.8 47.8#



#54
 cis-1,3-Dichloropropene
 Concen: 4.008 ug/l
 RT: 9.89 min Scan# 2524
 Delta R.T. 0.06 min
 Lab File: VN060090.D
 Acq: 13 Feb 2020 13:28

Tgt Ion: 75 Resp: 14965
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.6 38.4#
 39 33.5 42.2 63.4#





#57

1,3-Dichloropropane

Concen: 0.731 ug/l

RT: 10.76 min Scan# 2794

Delta R.T. 0.06 min

Lab File: VN060090.D

Acq: 13 Feb 2020 13:28

Instrument :

MSVOA_N

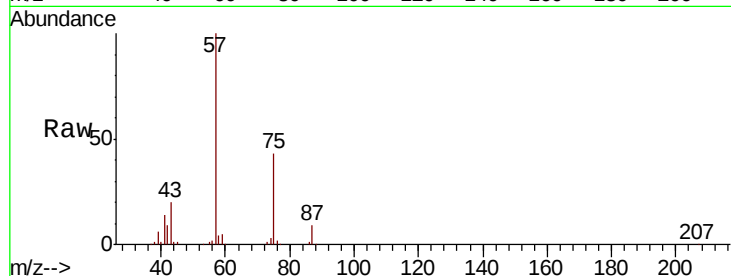
ClientSampled :

Tot Ion: 76 Resp: 2665

Ion Ratio Lower Upper

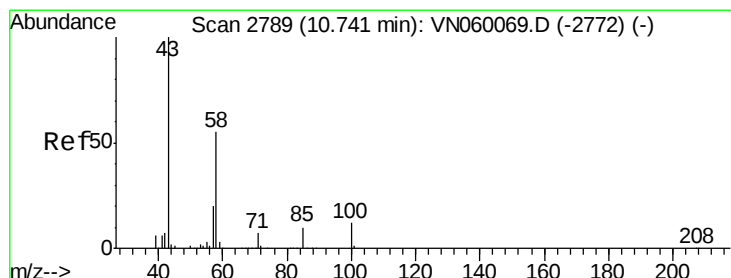
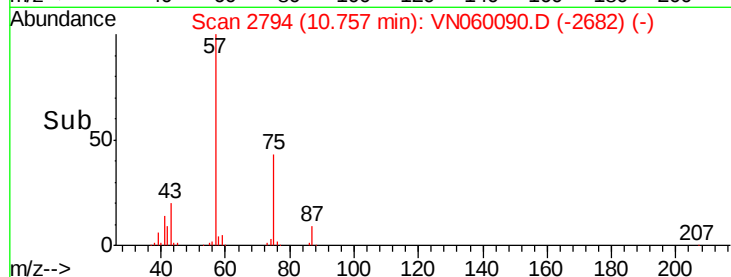
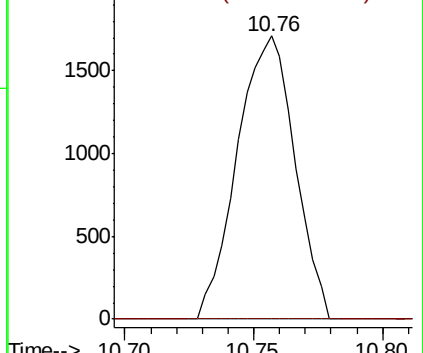
76 100

78 0.0 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 17.019 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060090.D

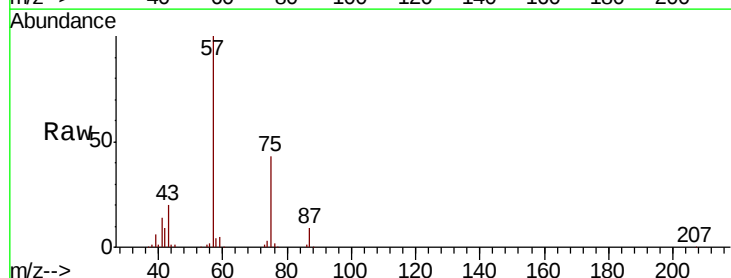
Acq: 13 Feb 2020 13:28

Tgt Ion: 43 Resp: 34999

Ion Ratio Lower Upper

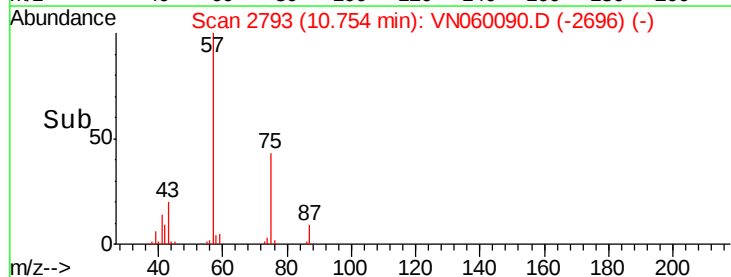
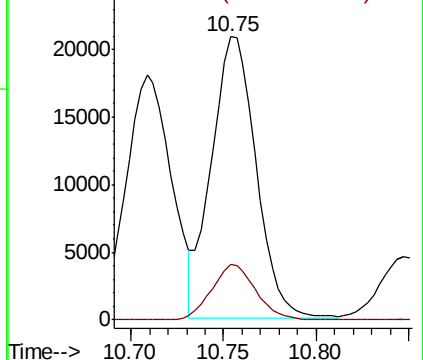
43 100

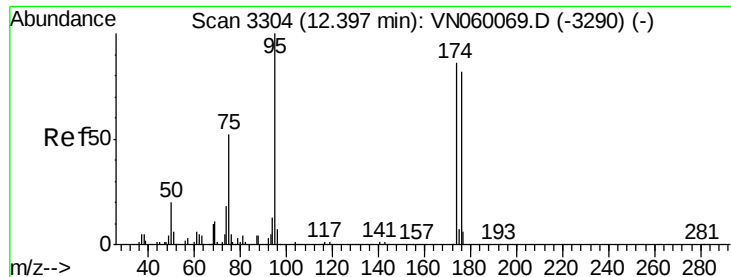
58 19.2 27.5 82.4#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

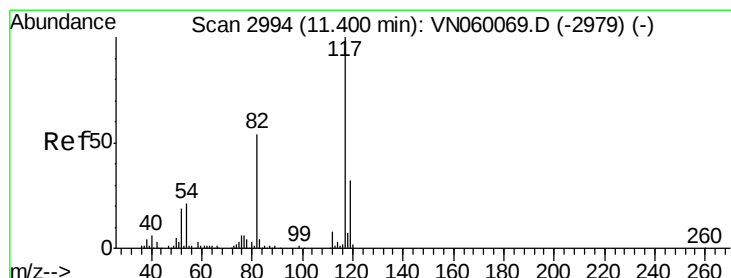
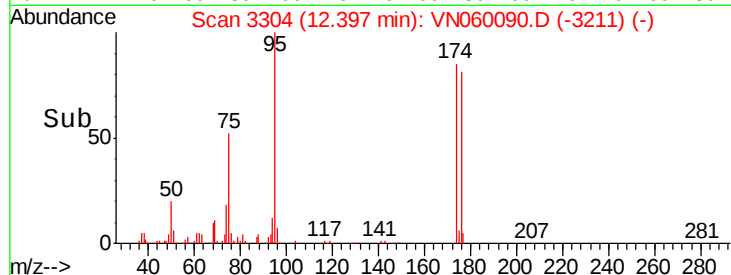
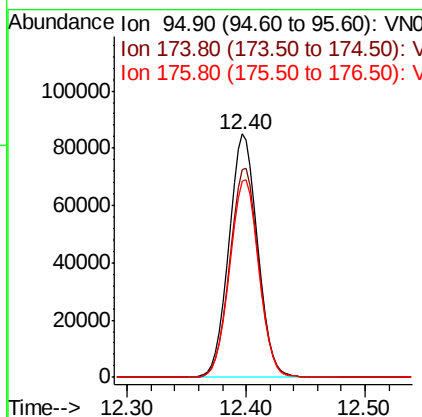
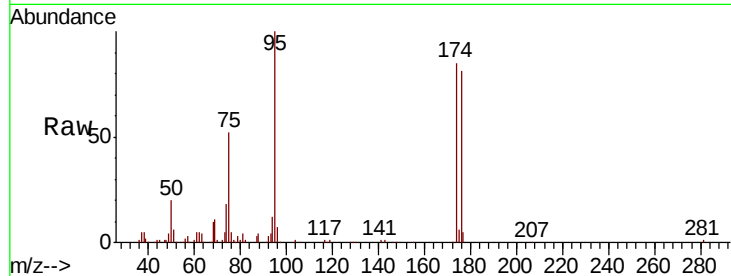




#62
4-Bromofluorobenzene
Concen: 49.571 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.00 min
Lab File: VN060090.D
Acq: 13 Feb 2020 13:28

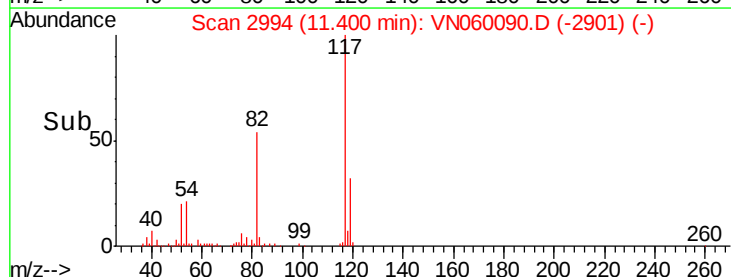
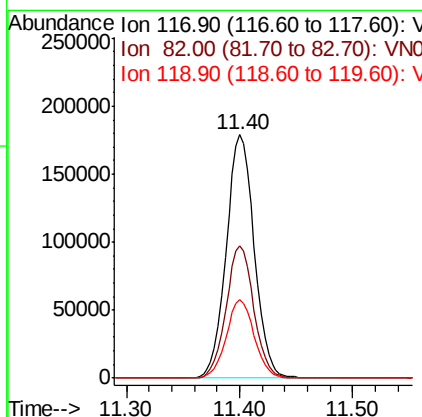
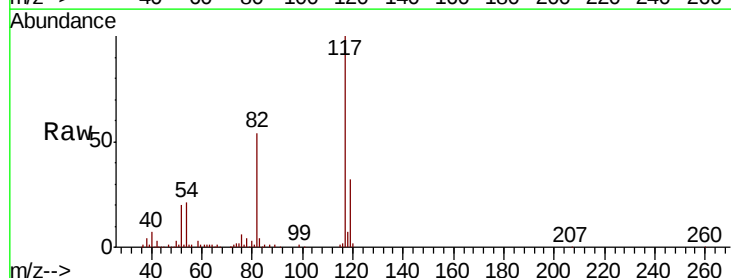
Instrument :
MSVOA_N
ClientSampleId :

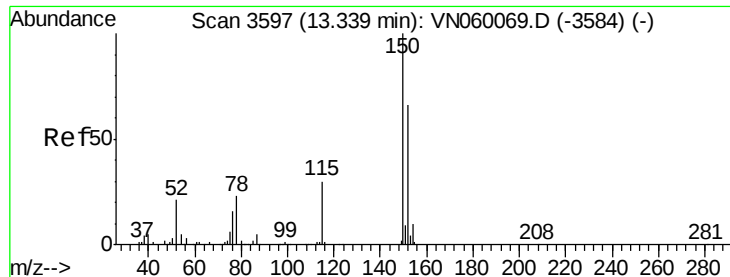
Tot Ion: 95 Resp: 141722
Ion Ratio Lower Upper
95 100
174 86.7 0.0 169.8
176 82.5 0.0 164.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. -0.00 min
Lab File: VN060090.D
Acq: 13 Feb 2020 13:28

Tgt Ion: 117 Resp: 307531
Ion Ratio Lower Upper
117 100
82 54.3 43.4 65.0
119 32.3 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. -0.00 min

Lab File: VN060090.D

Acq: 13 Feb 2020 13:28

Instrument :

MSVOA_N

ClientSampleId :

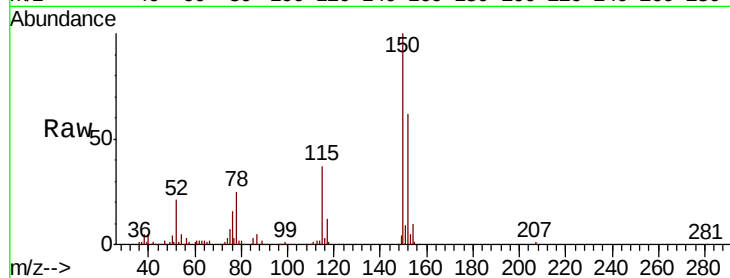
Tot Ion:152 Resp: 141583

Ion Ratio Lower Upper

152 100

115 59.4 28.9 86.8

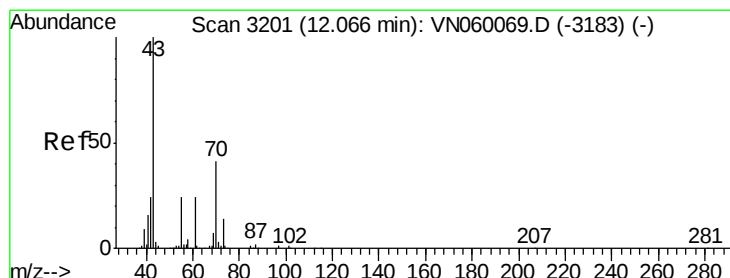
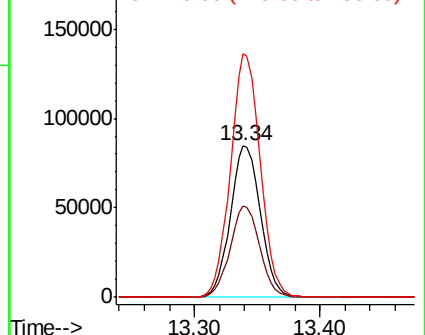
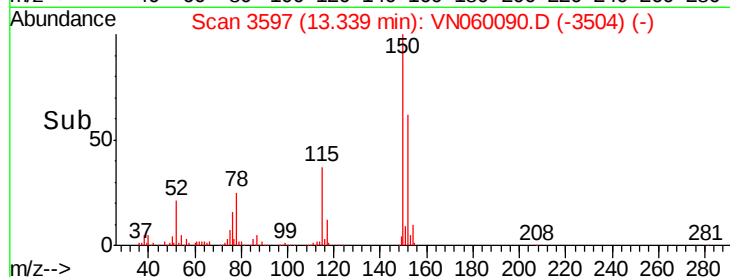
150 158.3 0.0 342.4



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: 0.380 ug/l

RT: 12.03 min Scan# 3191

Delta R.T. -0.03 min

Lab File: VN060090.D

Acq: 13 Feb 2020 13:28

Tgt Ion: 43 Resp: 1449

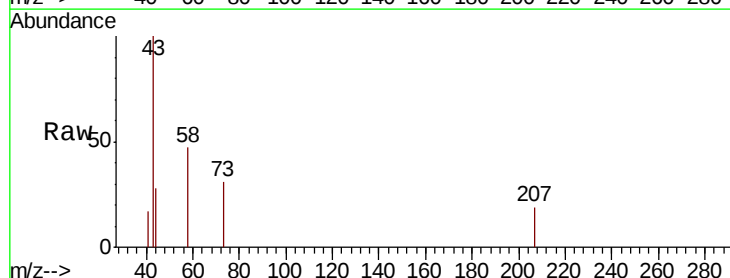
Ion Ratio Lower Upper

43 100

70 0.0 33.4 50.0#

55 0.0 18.8 28.2#

61 0.0 19.2 28.8#

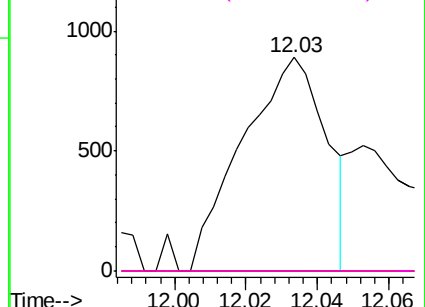
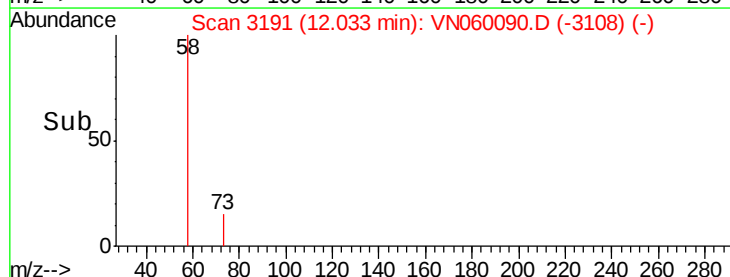


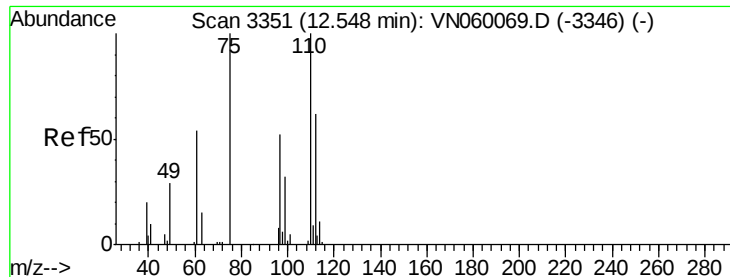
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 27.186 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060090.D

Acq: 13 Feb 2020 13:28

Instrument :

MSVOA_N

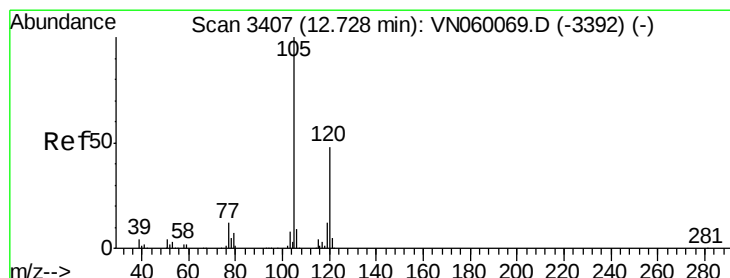
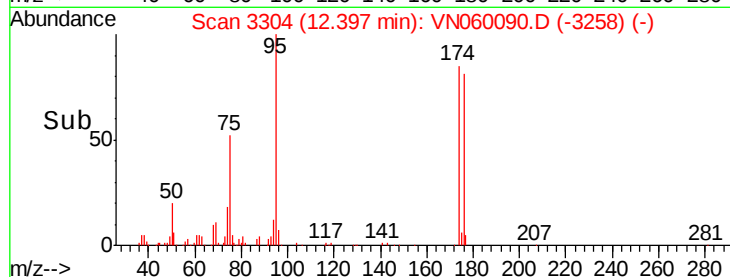
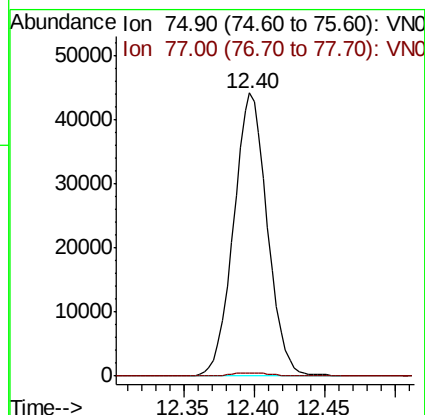
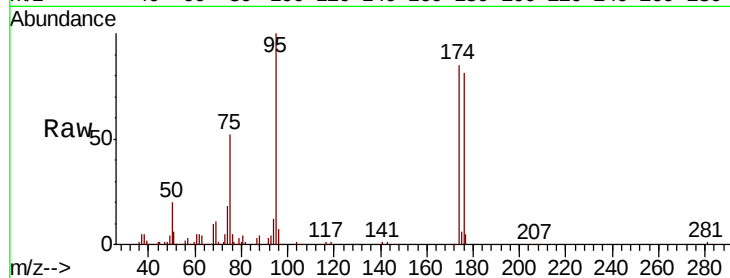
ClientSampled :

Tot Ion: 75 Resp: 73641

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#80

1,3,5-Trimethylbenzene

Concen: 0.204 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN060090.D

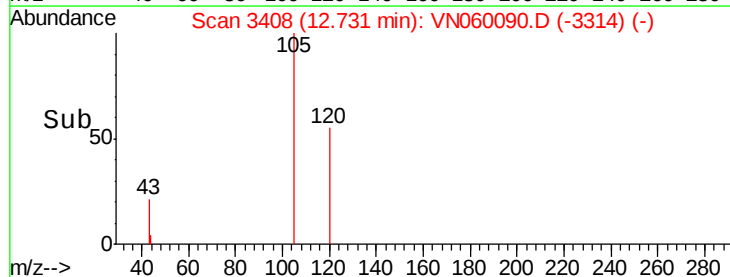
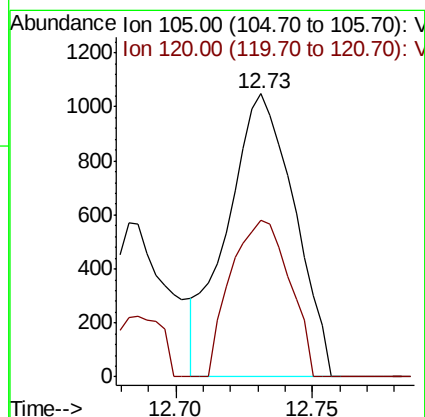
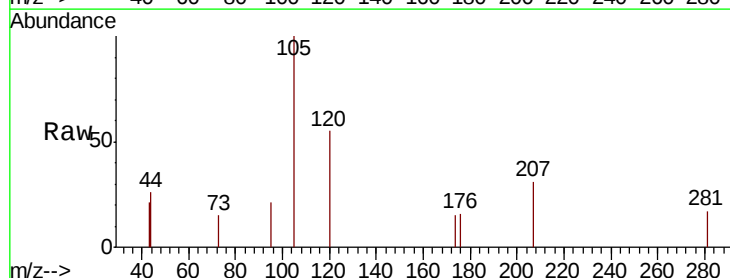
Acq: 13 Feb 2020 13:28

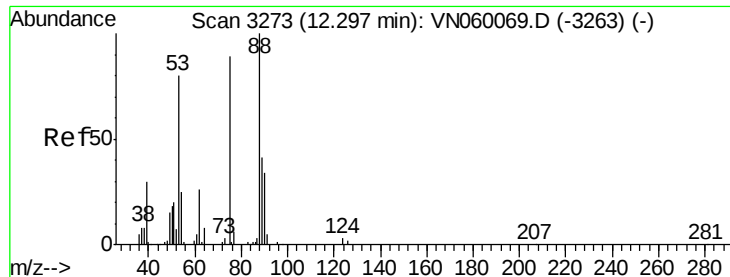
Tgt Ion: 105 Resp: 1795

Ion Ratio Lower Upper

105 100

120 48.5 24.3 72.9





#81

trans-1,4-Dichloro-2-butene

Concen: 66.565 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060090.D

Acq: 13 Feb 2020 13:28

Instrument :

MSVOA_N

ClientSampled :

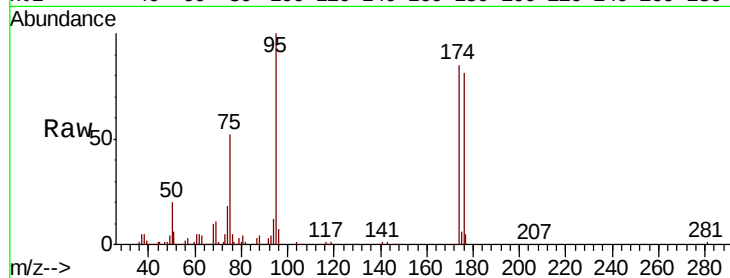
Tot Ion: 75 Resp: 73641

Ion Ratio Lower Upper

75 100

53 0.0 73.9 110.9#

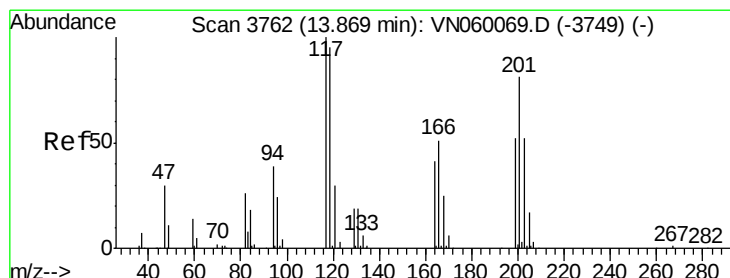
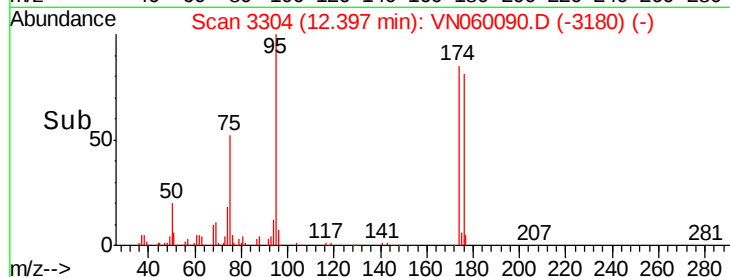
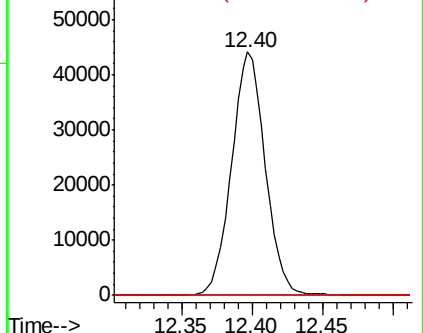
89 0.0 37.0 55.4#



Abundance Ion 74.90 (74.60 to 75.60): VN060069.D (-3263) (-)

Ion 53.00 (52.70 to 53.70): VN060069.D (-3263) (-)

Ion 88.90 (88.60 to 89.60): VN060069.D (-3263) (-)



#90

Hexachloroethane

Concen: 1.451 ug/l

RT: 13.99 min Scan# 3801

Delta R.T. 0.13 min

Lab File: VN060090.D

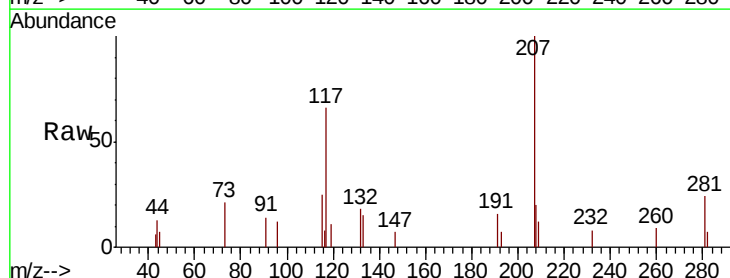
Acq: 13 Feb 2020 13:28

Tgt Ion: 117 Resp: 2530

Ion Ratio Lower Upper

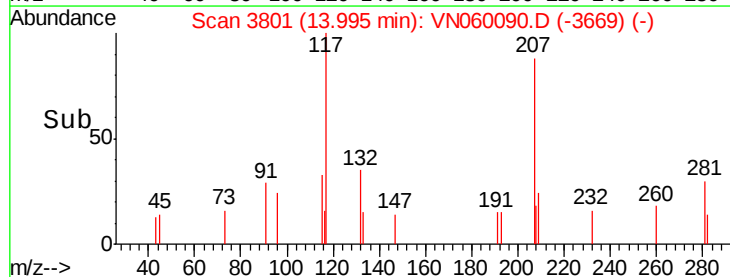
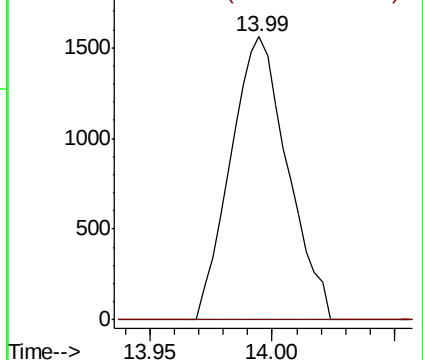
117 100

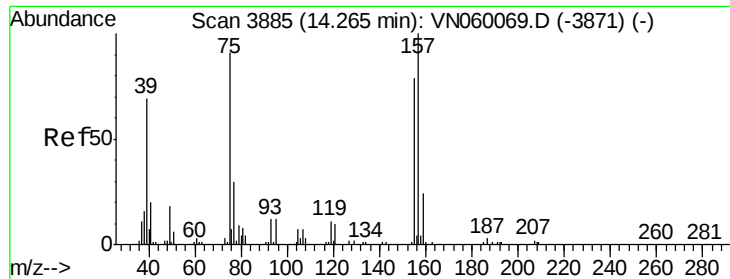
201 0.0 41.7 125.1#



Abundance Ion 116.80 (116.50 to 117.50): VN060069.D (-3749) (-)

Ion 200.70 (200.40 to 201.40): VN060069.D (-3749) (-)

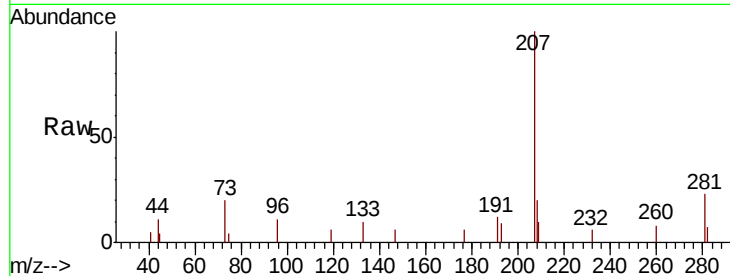




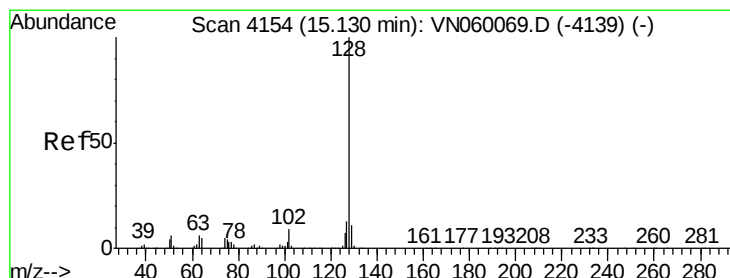
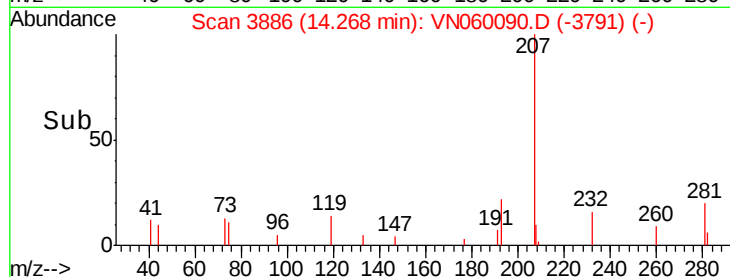
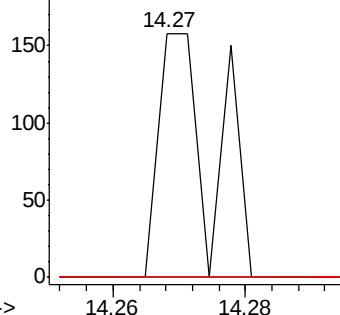
#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 14.27 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VN060090.D
 Acq: 13 Feb 2020 13:28

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 75 Resp: 90
 Ion Ratio Lower Upper
 75 100
 155 0.0 43.0 129.0#
 157 0.0 54.9 164.5#

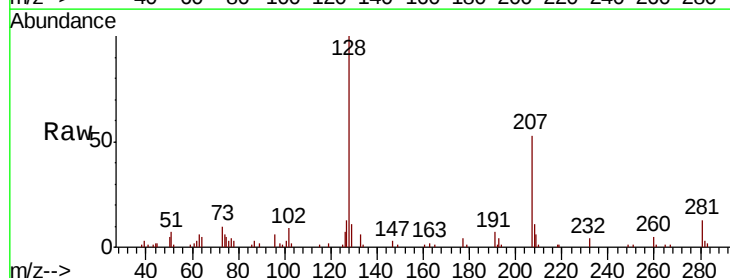


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 154.80 (154.50 to 155.50): V
 Ion 156.80 (156.50 to 157.50): V



#95
 Naphthalene
 Concen: 5.103 ug/l
 RT: 15.13 min Scan# 4154
 Delta R.T. -0.00 min
 Lab File: VN060090.D
 Acq: 13 Feb 2020 13:28

Tgt Ion: 128 Resp: 36813
 Ion Ratio Lower Upper
 128 100
 127 12.9 10.3 15.5
 129 10.6 8.6 13.0



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

