

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021920\
 Data File : VN060151.D
 Acq On : 19 Feb 2020 13:24
 Operator : JC/MD
 Sample : PB126910ZHE#03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 20 01:17:04 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	180019	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	286817	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	281151	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	131757	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	107664	49.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.30%	
35) Dibromofluoromethane	7.57	113	87460	49.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.22%	
50) Toluene-d8	10.08	98	352543	50.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.56%	
62) 4-Bromofluorobenzene	12.40	95	132641	51.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.98%	

Target Compounds

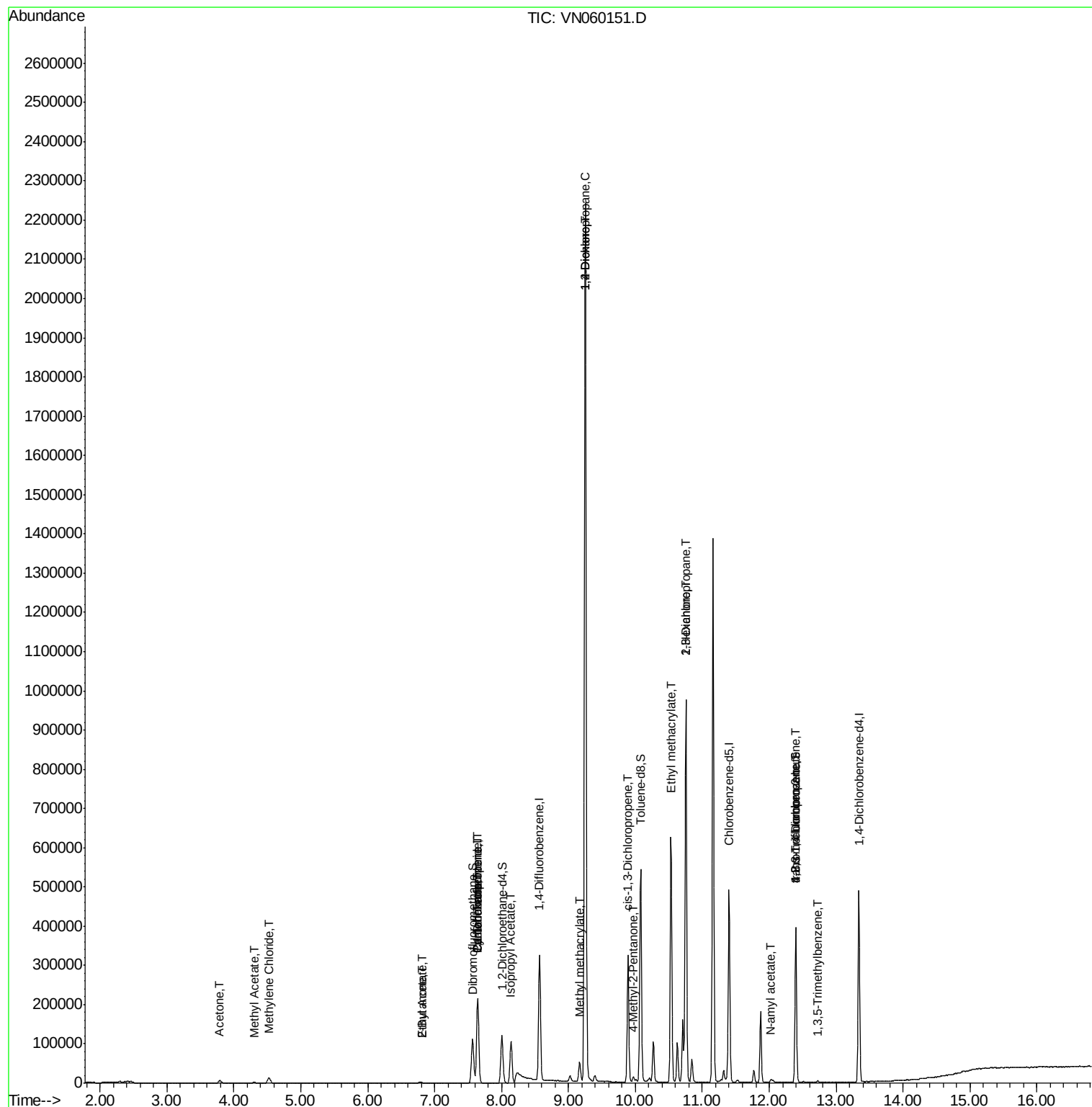
					Qvalue	
16) Acetone	3.79	43	11045	11.559	ug/l	96
18) Methyl Acetate	4.30	43	4086	2.276	ug/l #	63
20) Methylene Chloride	4.52	84	10343	5.426	ug/l	97
25) 2-Butanone	6.82	43	1823	1.517	ug/l #	46
31) Cyclohexane	7.65	56	3700	1.194	ug/l #	23
36) 1,1-Dichloropropene	7.64	75	12880	4.848	ug/l #	49
37) Ethyl Acetate	6.82	43	1823	0.759	ug/l #	68
38) Carbon Tetrachloride	7.64	117	16872	5.848	ug/l #	15
43) Isopropyl Acetate	8.14	43	125107	30.482	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	2695	1.381	ug/l #	43
48) Methyl methacrylate	9.16	41	7480	4.062	ug/l #	9
49) 1,4-Dioxane	9.25	88	251	7.978	ug/l #	1
51) 4-Methyl-2-Pentanone	9.97	43	9484	3.992	ug/l	90
54) cis-1,3-Dichloropropene	9.89	75	59203	17.770	ug/l #	62
56) Ethyl methacrylate	10.53	69	1358	0.487	ug/l #	1
57) 1,3-Dichloropropane	10.75	76	10082	3.099	ug/l #	43
59) 2-Hexanone	10.75	43	137791	75.086	ug/l #	51
74) N-amyl acetate	12.02	43	7106	2.003	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	68242	27.072	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	2471	0.302	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.40	75	68242	66.285	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.28	75	101	Below Cal	#	1

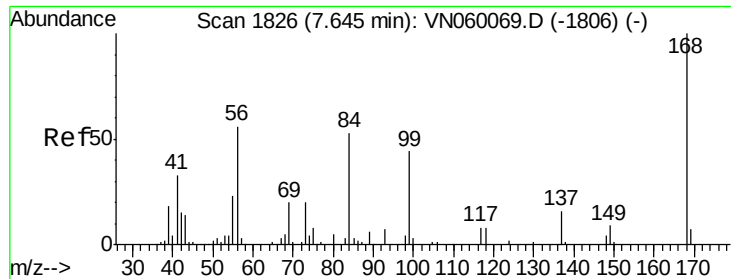
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Acq On : 19 Feb 2020 13:24
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Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Feb 20 01:17:04 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: VN060151.D

Acq: 19 Feb 2020 13:24

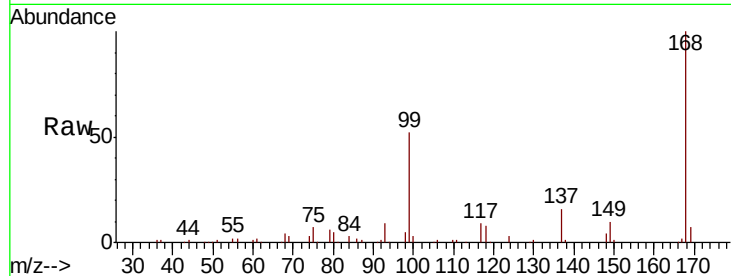
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 180019

Ion Ratio Lower Upper

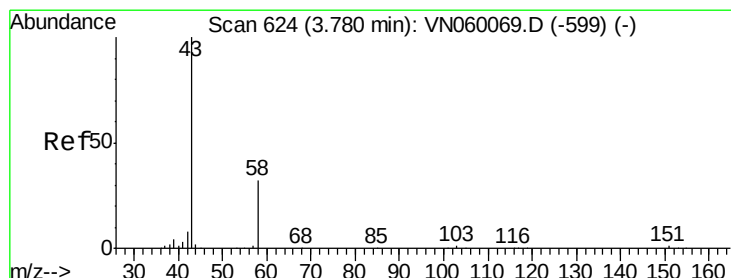
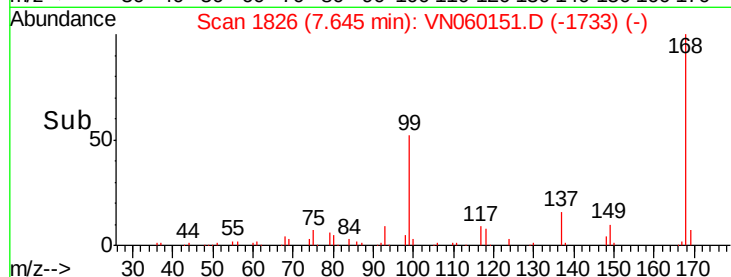
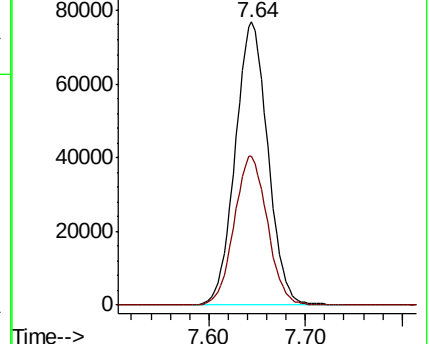
168 100

99 52.5 42.7 64.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 11.559 ug/l

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN060151.D

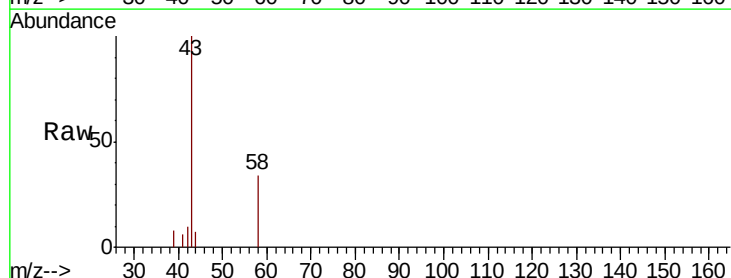
Acq: 19 Feb 2020 13:24

Tgt Ion: 43 Resp: 11045

Ion Ratio Lower Upper

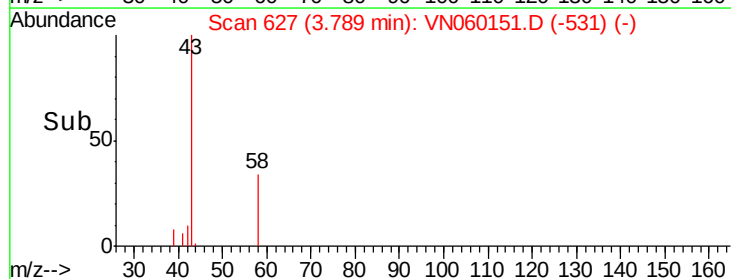
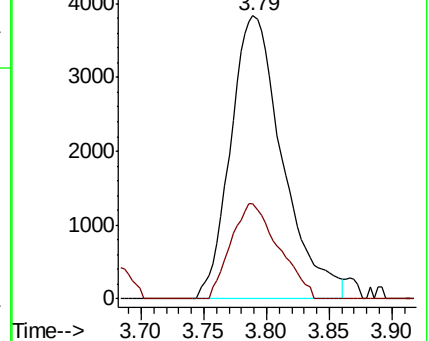
43 100

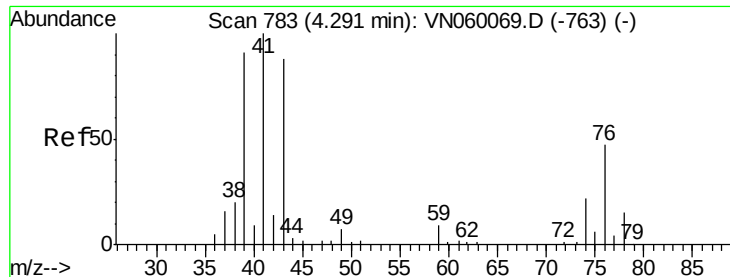
58 33.6 25.2 37.8



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

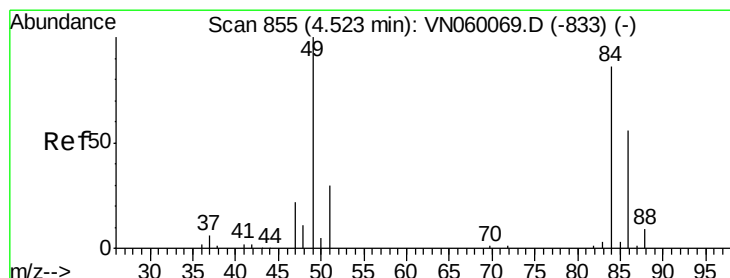
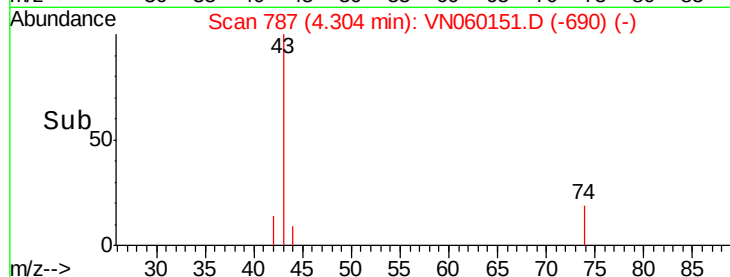
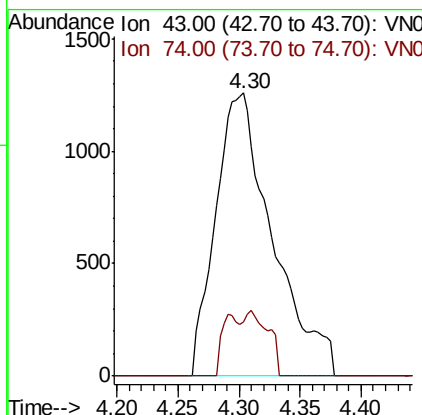
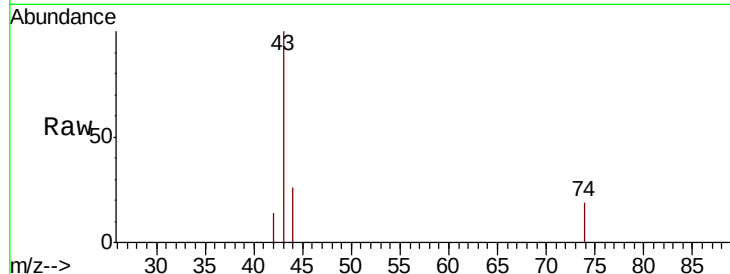




#18
Methyl Acetate
Concen: 2.276 ug/l
RT: 4.30 min Scan# 787
Delta R.T. 0.01 min
Lab File: VN060151.D
Acq: 19 Feb 2020 13:24

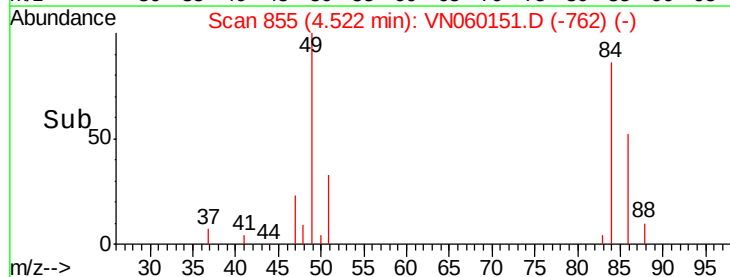
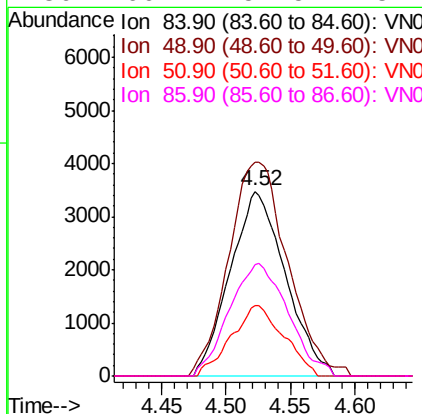
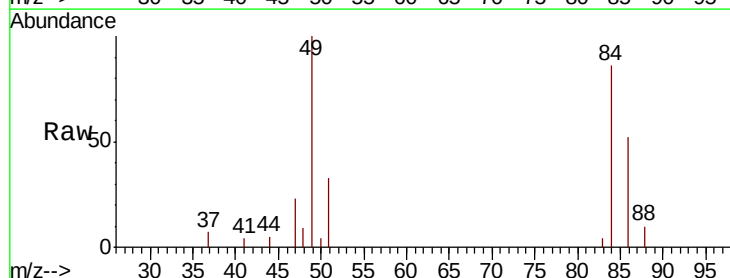
Instrument :
MSVOA_N
ClientSampled :

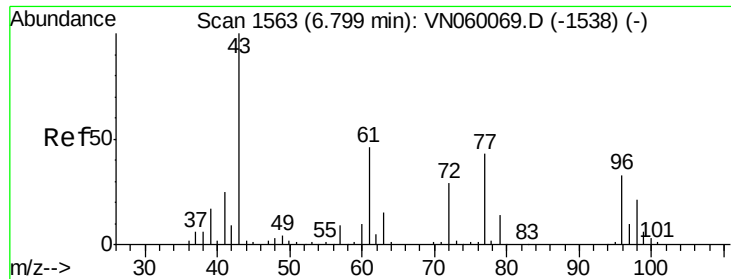
Tot Ion: 43 Resp: 4086
Ion Ratio Lower Upper
43 100
74 6.8 20.3 30.5#



#20
Methylene Chloride
Concen: 5.426 ug/l
RT: 4.52 min Scan# 855
Delta R.T. -0.00 min
Lab File: VN060151.D
Acq: 19 Feb 2020 13:24

Tgt Ion: 84 Resp: 10343
Ion Ratio Lower Upper
84 100
49 115.8 93.4 140.0
51 38.2 28.4 42.6
86 60.4 52.5 78.7

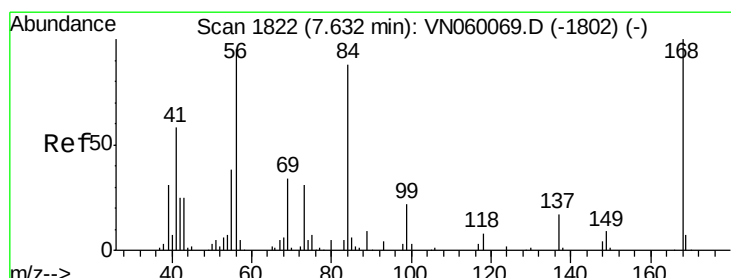
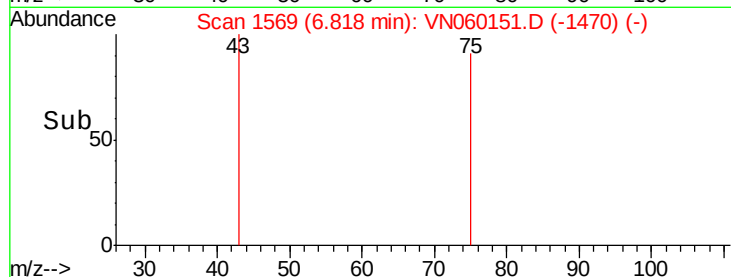
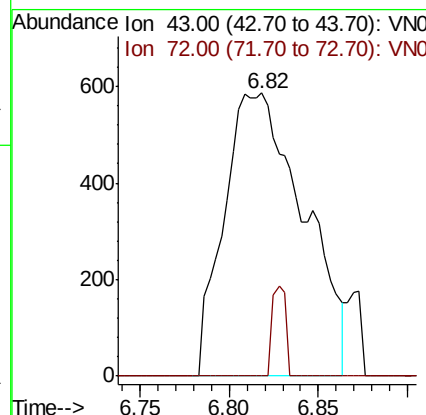
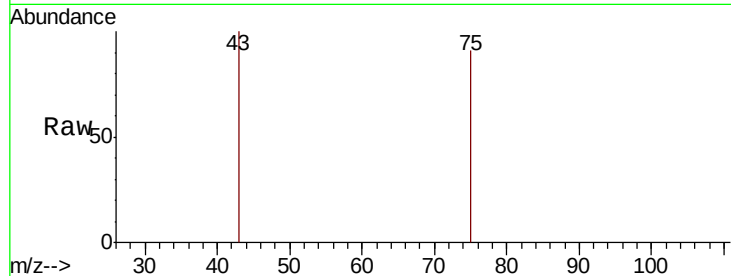




#25
2-Butanone
Concen: 1.517 ug/l
RT: 6.82 min Scan# 1569
Delta R.T. 0.02 min
Lab File: VN060151.D
Acq: 19 Feb 2020 13:24

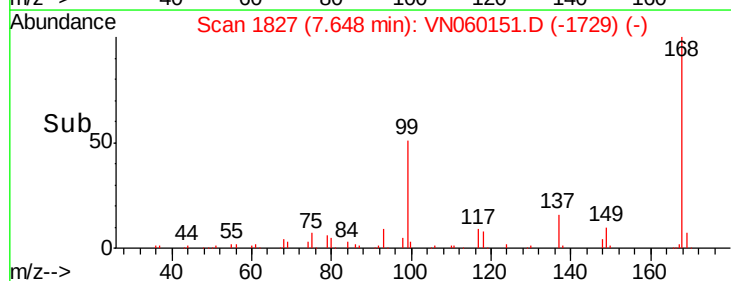
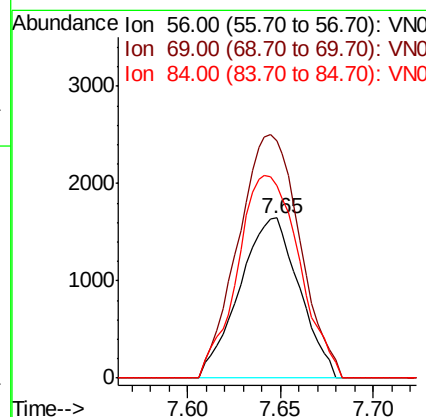
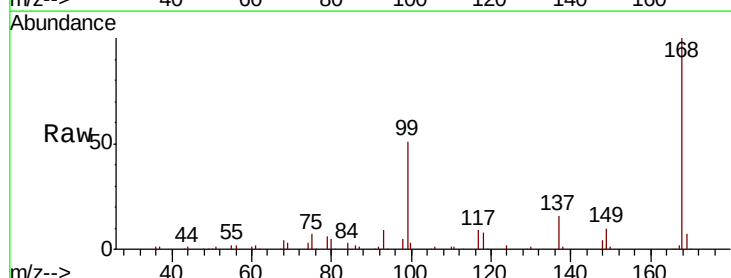
Instrument :
MSVOA_N
ClientSampleId :

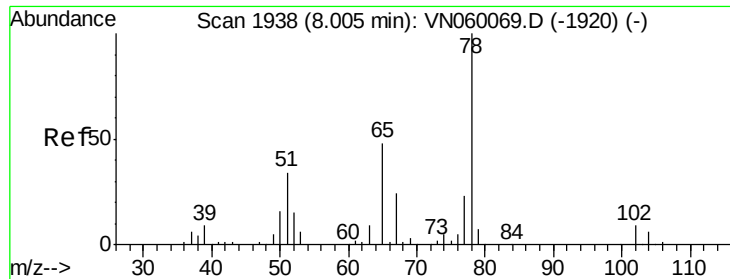
Tot Ion: 43 Resp: 1823
Ion Ratio Lower Upper
43 100
72 0.0 23.3 34.9#



#31
Cyclohexane
Concen: 1.194 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. 0.02 min
Lab File: VN060151.D
Acq: 19 Feb 2020 13:24

Tgt Ion: 56 Resp: 3700
Ion Ratio Lower Upper
56 100
69 148.0 28.3 42.5#
84 120.5 72.6 108.8#

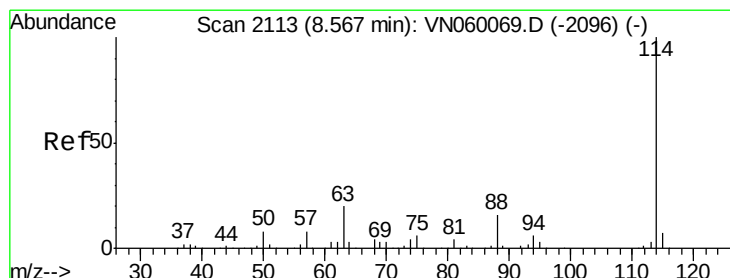
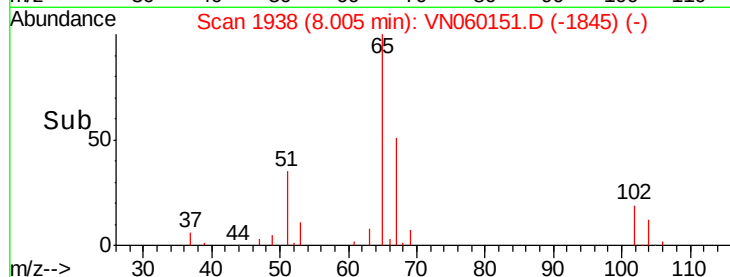
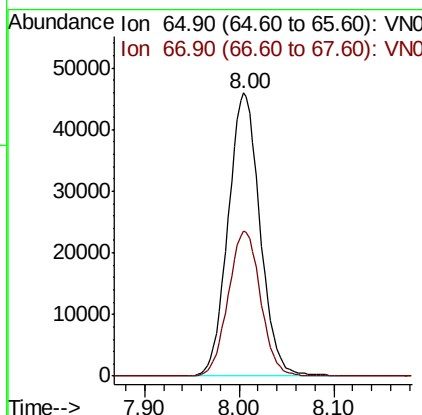
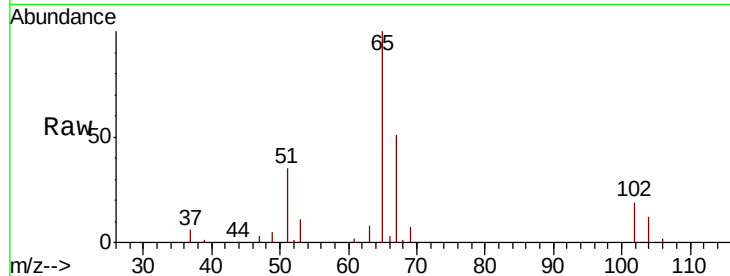




#33
 1,2-Dichloroethane-d4
 Concen: 49.150 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. -0.00 min
 Lab File: VN060151.D
 Acq: 19 Feb 2020 13:24

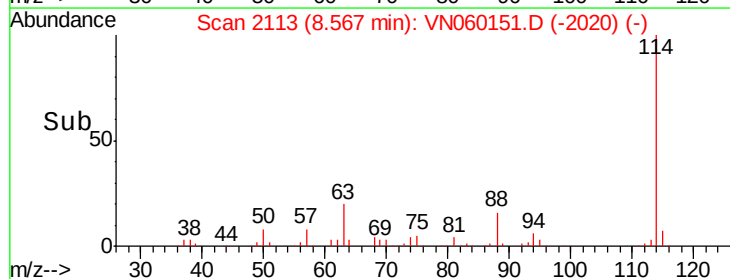
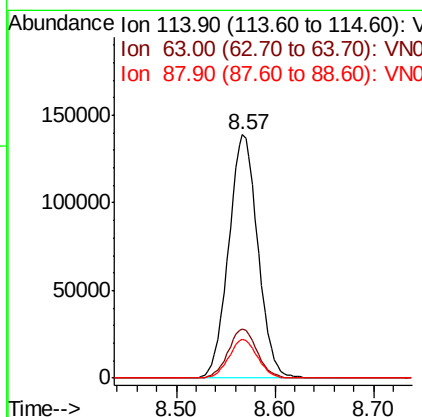
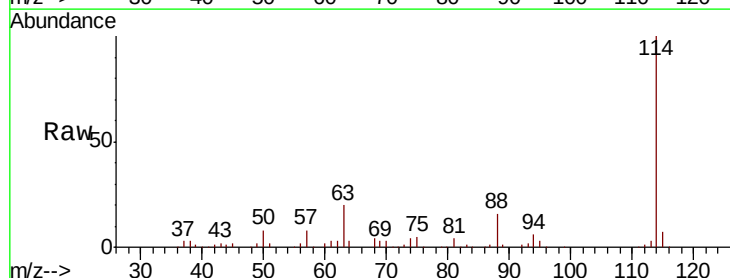
Instrument :
 MSVOA_N
 ClientSampleId :

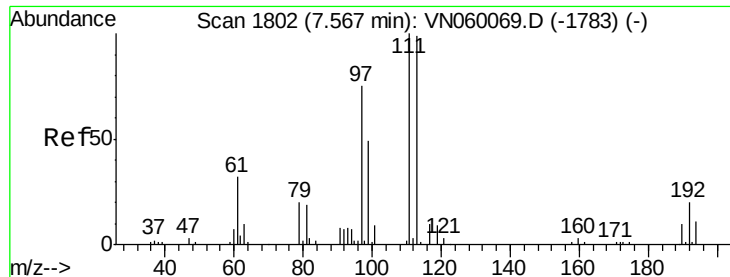
Tot Ion: 65 Resp: 107664
 Ion Ratio Lower Upper
 65 100
 67 51.8 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN060151.D
 Acq: 19 Feb 2020 13:24

Tgt Ion: 114 Resp: 286817
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 40.0
 88 15.8 0.0 31.6

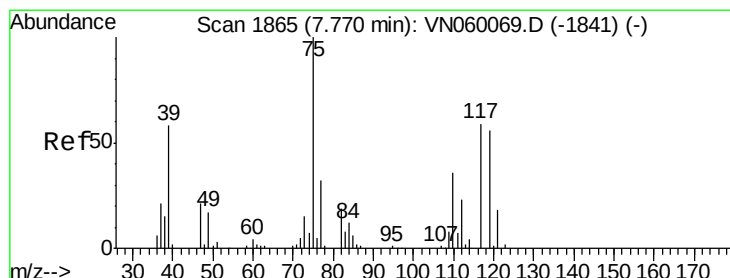
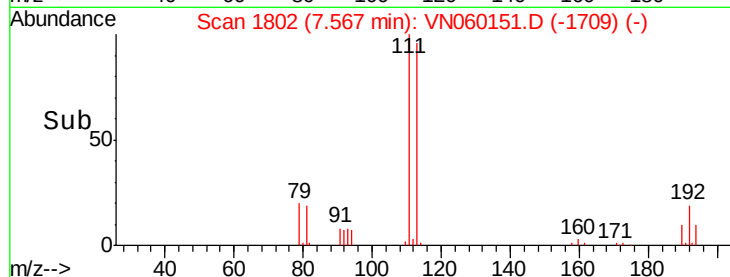
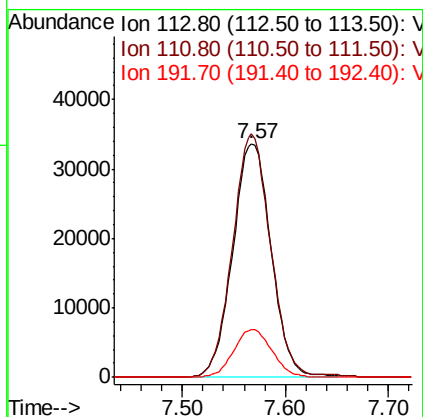
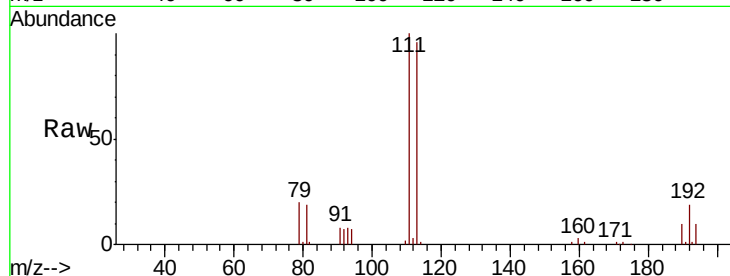




#35
 Dibromofluoromethane
 Concen: 49.607 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. -0.00 min
 Lab File: VN060151.D
 Acq: 19 Feb 2020 13:24

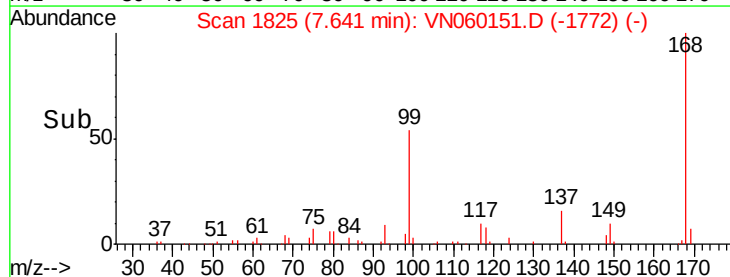
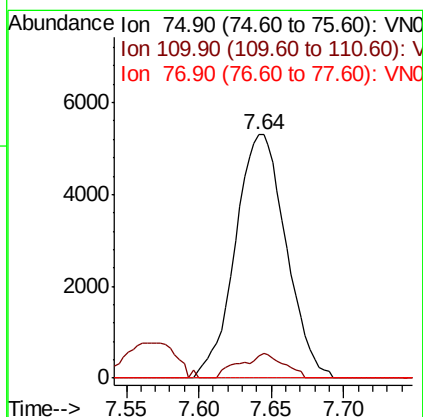
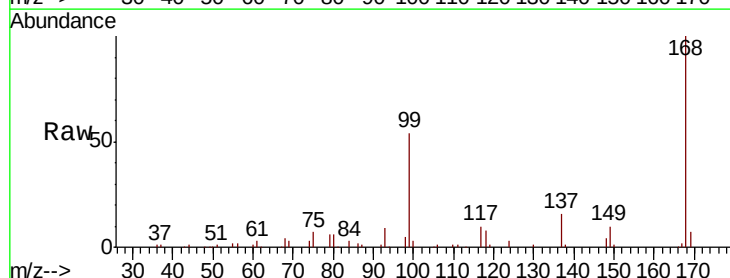
Instrument :
 MSVOA_N
 ClientSampleId :

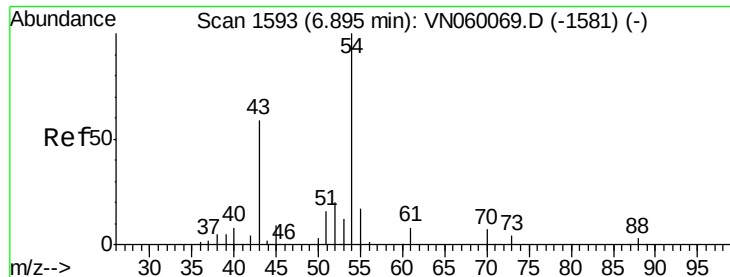
Tot Ion:113 Resp: 87460
 Ion Ratio Lower Upper
 113 100
 111 103.1 81.4 122.2
 192 20.3 16.2 24.2



#36
 1,1-Dichloropropene
 Concen: 4.848 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060151.D
 Acq: 19 Feb 2020 13:24

Tgt Ion: 75 Resp: 12880
 Ion Ratio Lower Upper
 75 100
 110 8.8 18.1 54.3#
 77 0.0 25.1 37.7#

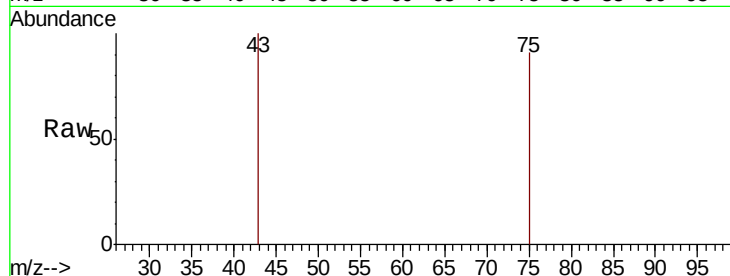




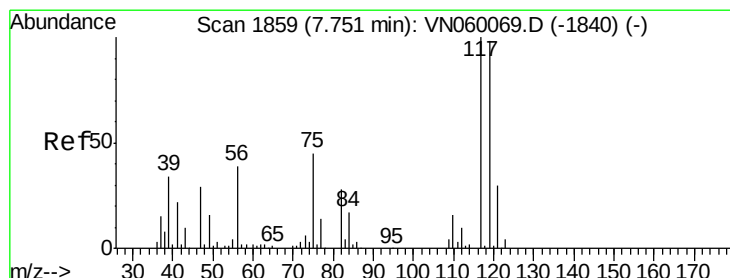
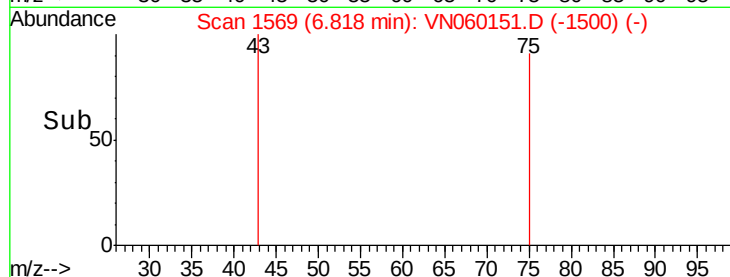
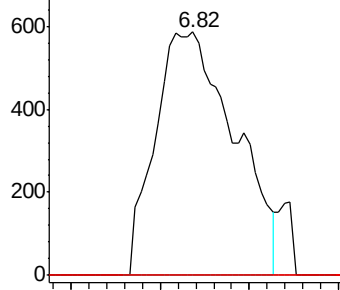
#37
Ethyl Acetate
Concen: 0.759 ug/l
RT: 6.82 min Scan# 1569
Delta R.T. -0.08 min
Lab File: VN060151.D
Acq: 19 Feb 2020 13:24

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 43 Resp: 1823
Ion Ratio Lower Upper
43 100
61 0.0 11.4 17.2#
70 0.0 8.7 13.1#

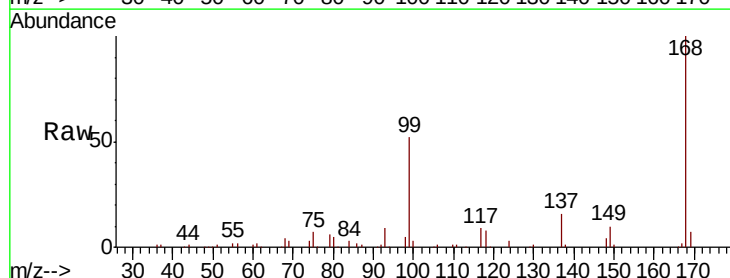


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0

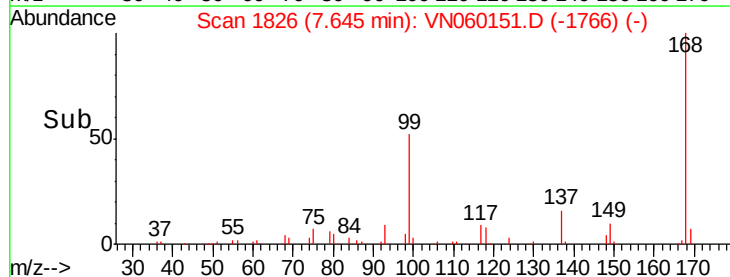
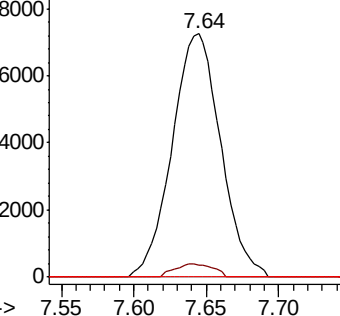


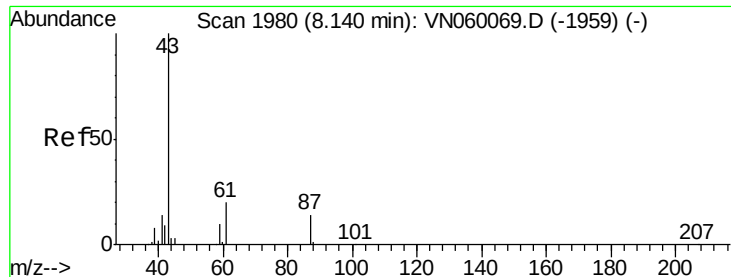
#38
Carbon Tetrachloride
Concen: 5.848 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. -0.11 min
Lab File: VN060151.D
Acq: 19 Feb 2020 13:24

Tgt Ion: 117 Resp: 16872
Ion Ratio Lower Upper
117 100
119 5.1 78.2 117.4#
121 0.0 24.2 36.2#



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





#43

Isopropyl Acetate

Concen: 30.482 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. -0.00 min

Lab File: VN060151.D

Acq: 19 Feb 2020 13:24

Instrument :

MSVOA_N

ClientSampleId :

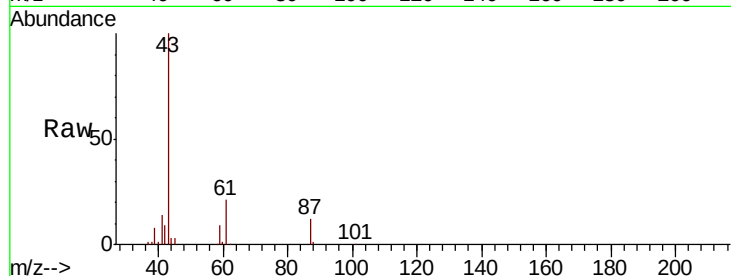
Tot Ion: 43 Resp: 125107

Ion Ratio Lower Upper

43 100

61 19.9 21.8 32.6#

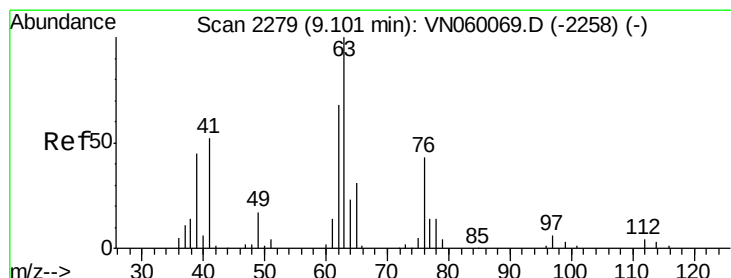
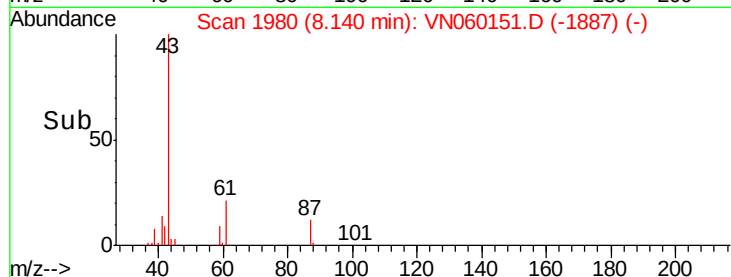
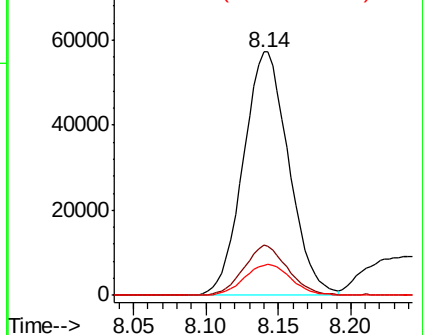
87 13.1 11.4 17.2



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: 1.381 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN060151.D

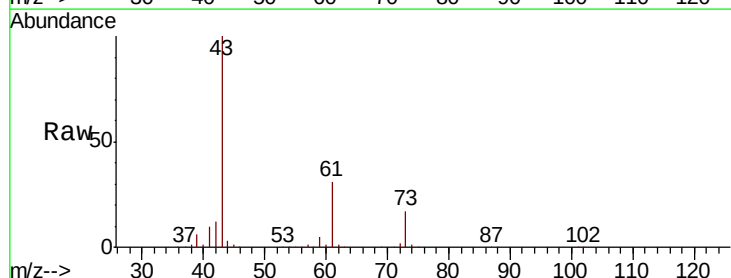
Acq: 19 Feb 2020 13:24

Tgt Ion: 63 Resp: 2695

Ion Ratio Lower Upper

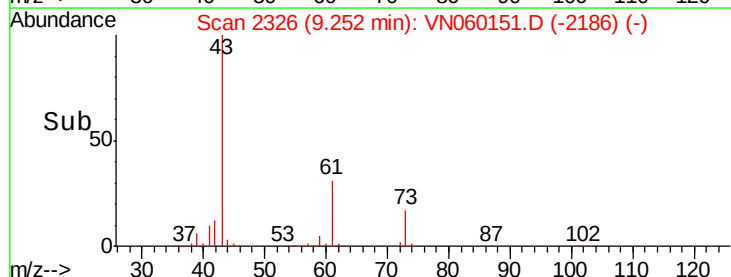
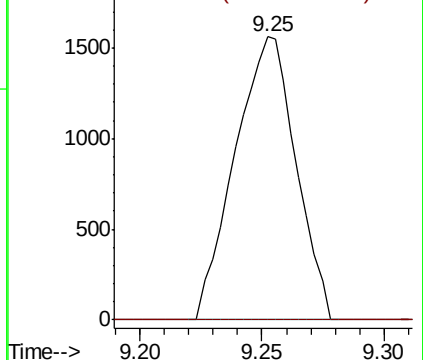
63 100

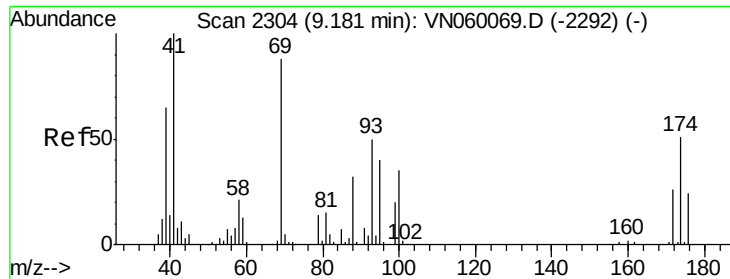
65 0.0 25.0 37.4#



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

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

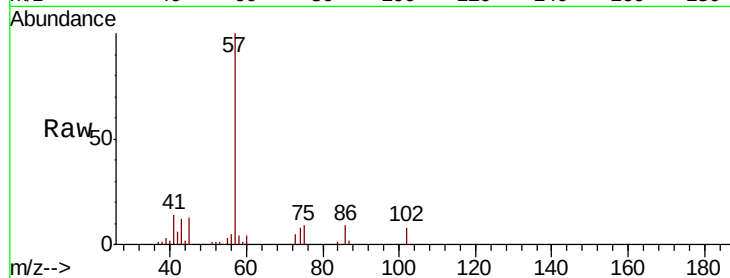




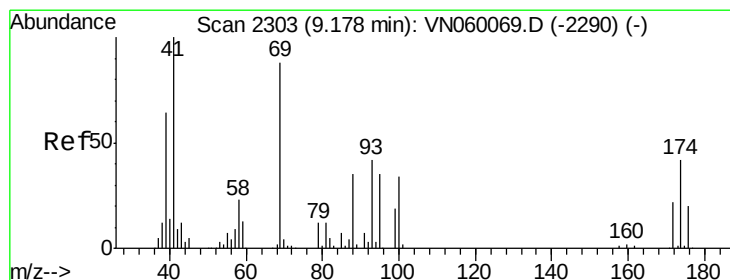
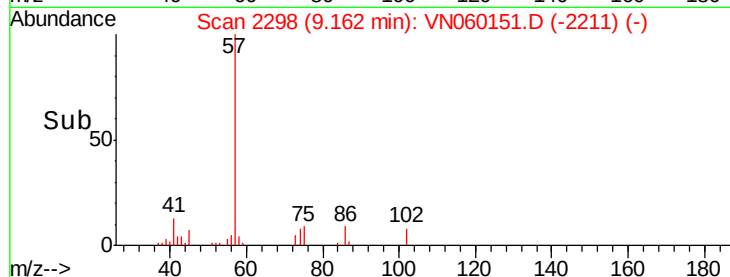
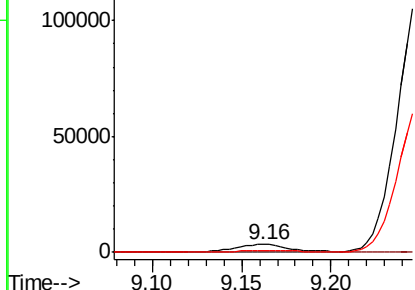
#48
Methvl methacrylate
Concen: 4.062 ug/l
RT: 9.16 min Scan# 2298
Delta R.T. -0.02 min
Lab File: VN060151.D
Acq: 19 Feb 2020 13:24

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 7480
Ion Ratio Lower Upper
41 100
69 0.0 72.0 108.0#
39 0.0 54.1 81.1#

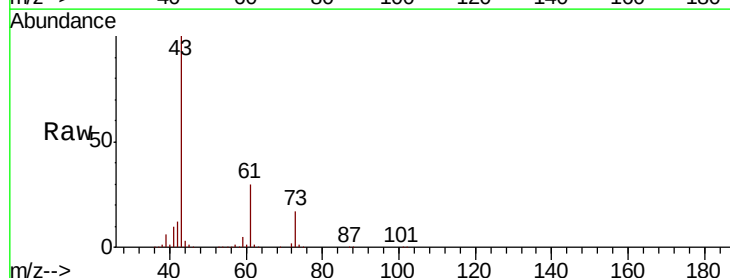


Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 39.00 (38.70 to 39.70): VNO

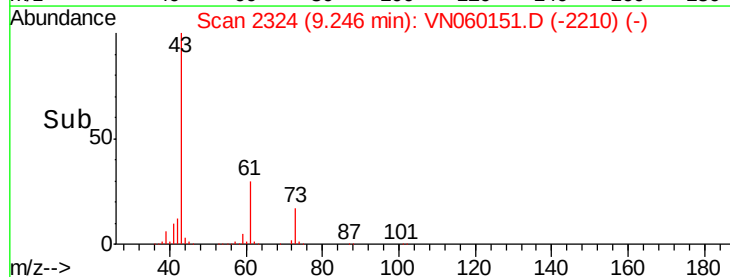
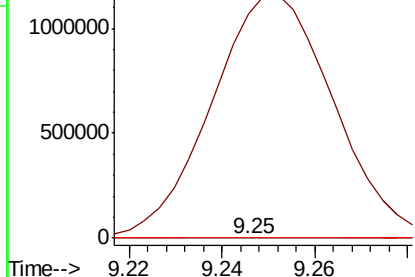


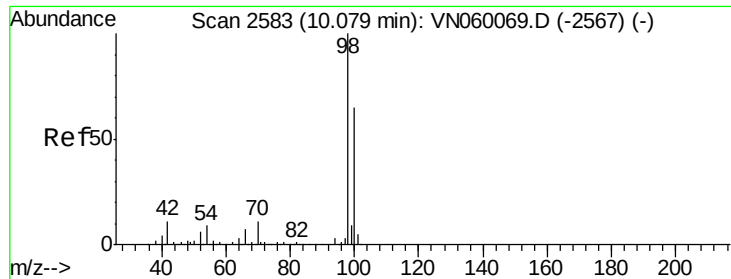
#49
1,4-Dioxane
Concen: 7.978 ug/l
RT: 9.25 min Scan# 2324
Delta R.T. 0.07 min
Lab File: VN060151.D
Acq: 19 Feb 2020 13:24

Tgt Ion: 88 Resp: 251
Ion Ratio Lower Upper
88 100
43 853006.0 26.2 39.2#
58 3285.7 53.2 79.8#



Abundance Ion 88.00 (87.70 to 88.70): VNO
Ion 43.00 (42.70 to 43.70): VNO
Ion 58.00 (57.70 to 58.70): VNO





#50

Toluene-d8

Concen: 50.778 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. -0.00 min

Lab File: VN060151.D

Acq: 19 Feb 2020 13:24

Instrument :

MSVOA_N

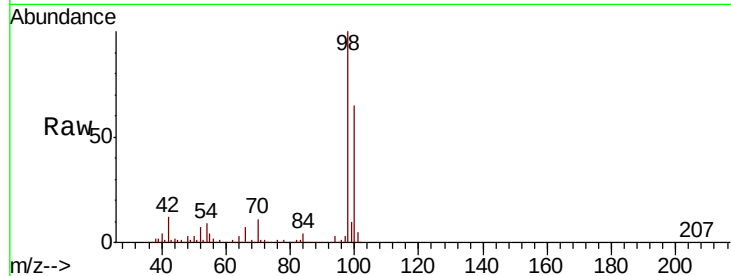
ClientSampled :

Tot Ion: 98 Resp: 352543

Ion Ratio Lower Upper

98 100

100 65.1 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN060151.D (-2490) (-)

Ion 100.00 (99.70 to 100.70): VN060151.D (-2490) (-)

10.08

200000

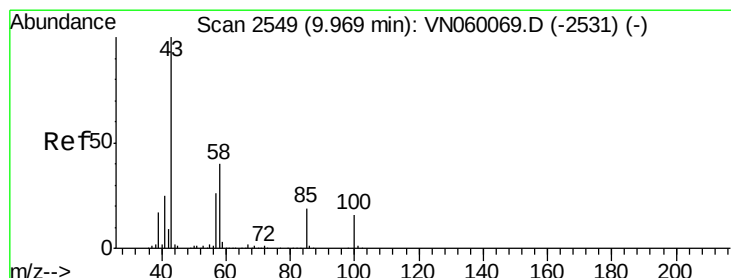
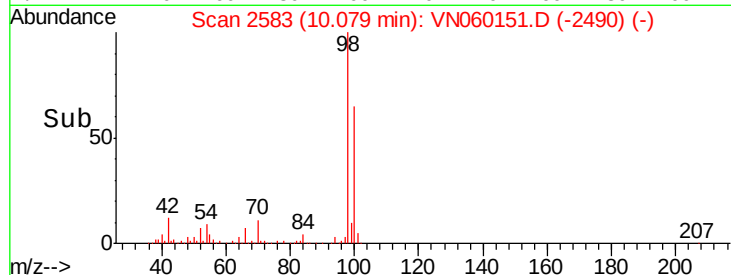
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 3.992 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. -0.00 min

Lab File: VN060151.D

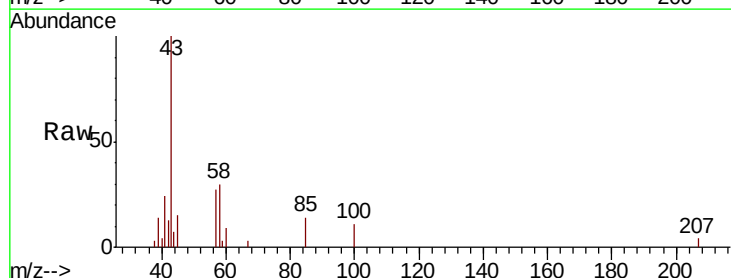
Acq: 19 Feb 2020 13:24

Tgt Ion: 43 Resp: 9484

Ion Ratio Lower Upper

43 100

58 33.8 31.8 47.8



Abundance Ion 43.00 (42.70 to 43.70): VN060151.D (-2456) (-)

Ion 58.00 (57.70 to 58.70): VN060151.D (-2456) (-)

20000

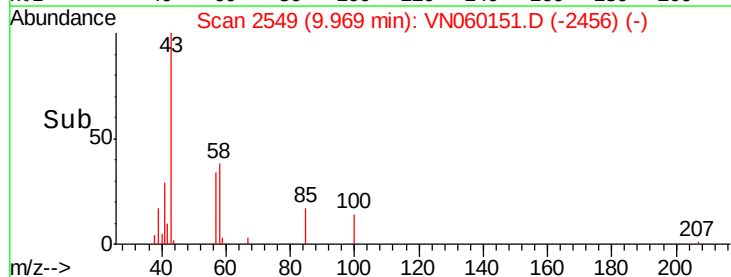
15000

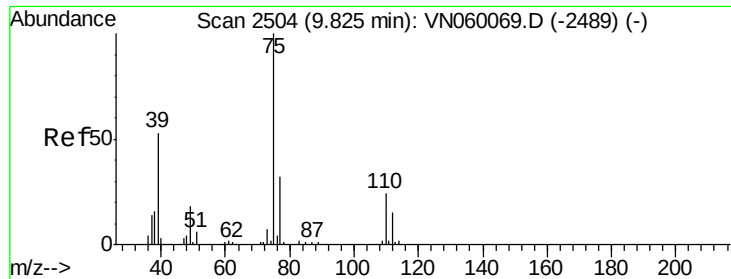
10000

5000

0

Time-->



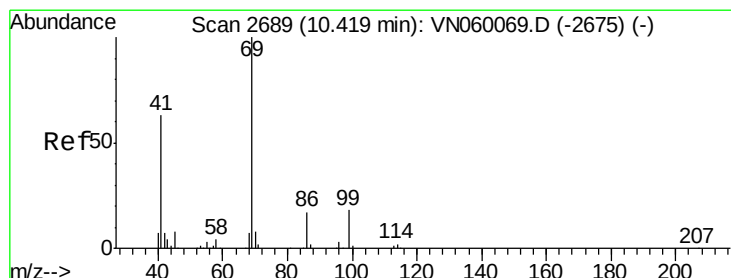
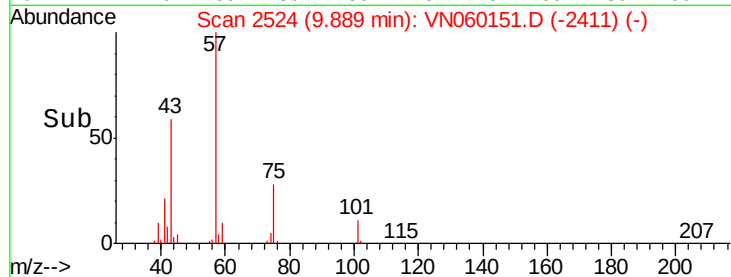
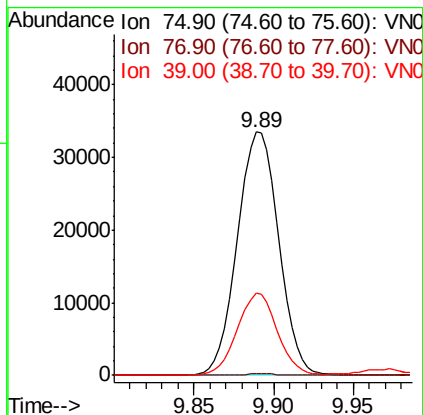
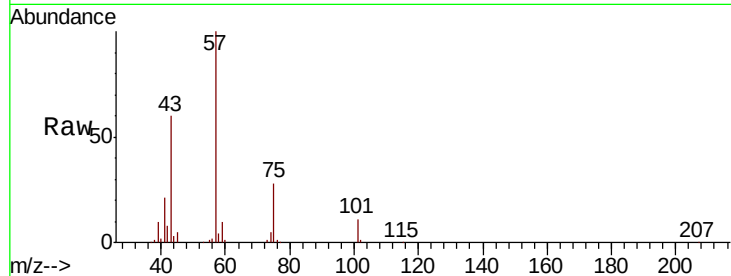


#54

cis-1,3-Dichloropropene
 Concen: 17.770 ug/l
 RT: 9.89 min Scan# 2524
 Delta R.T. 0.06 min
 Lab File: VN060151.D
 Acq: 19 Feb 2020 13:24

Instrument :
 MSVOA_N
 ClientSampled :

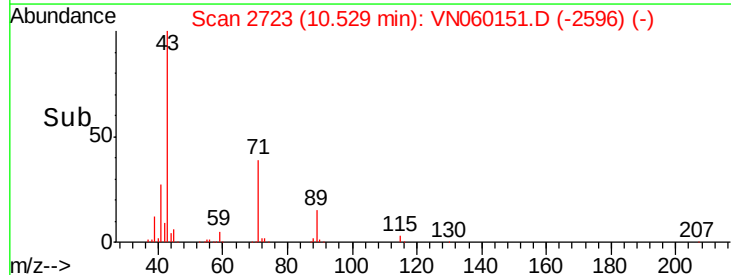
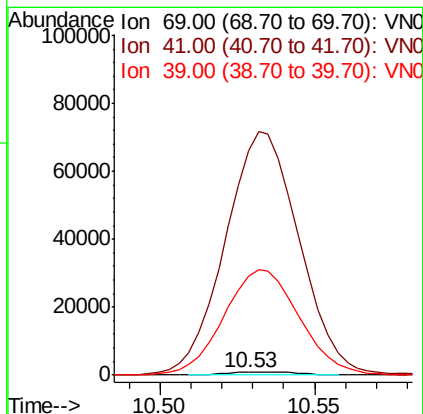
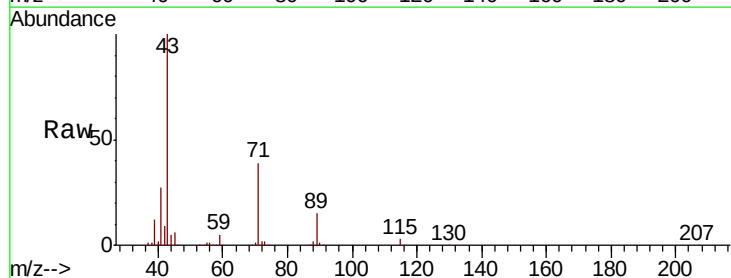
Tot Ion: 75 Resp: 59203
 Ion Ratio Lower Upper
 75 100
 77 0.6 25.6 38.4#
 39 33.7 42.2 63.4#

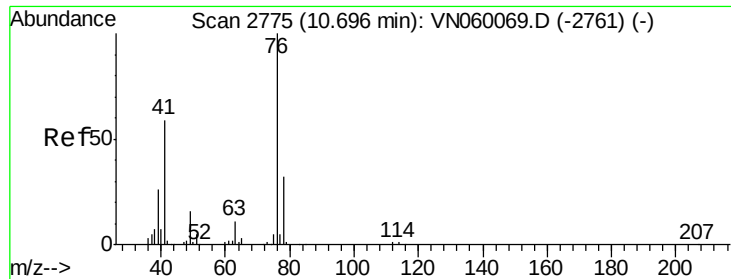


#56

Ethyl methacrylate
 Concen: 0.487 ug/l
 RT: 10.53 min Scan# 2723
 Delta R.T. 0.11 min
 Lab File: VN060151.D
 Acq: 19 Feb 2020 13:24

Tgt Ion: 69 Resp: 1358
 Ion Ratio Lower Upper
 69 100
 41 8802.5 51.1 76.7#
 39 3885.7 33.8 50.8#

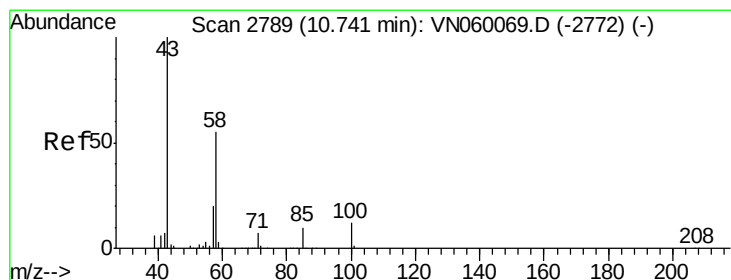
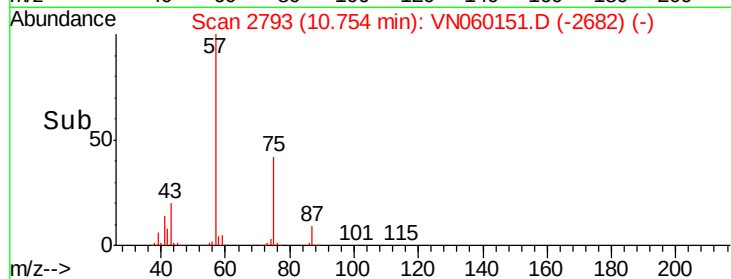
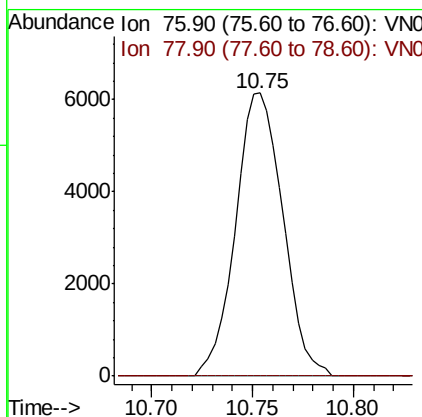
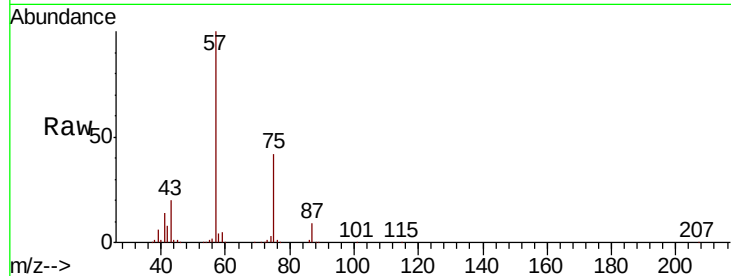




#57
 1,3-Dichloropropane
 Concen: 3.099 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN060151.D
 Acq: 19 Feb 2020 13:24

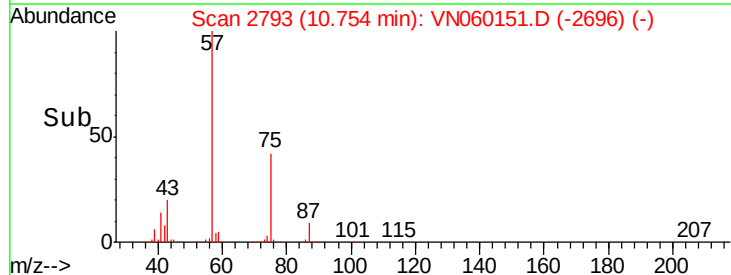
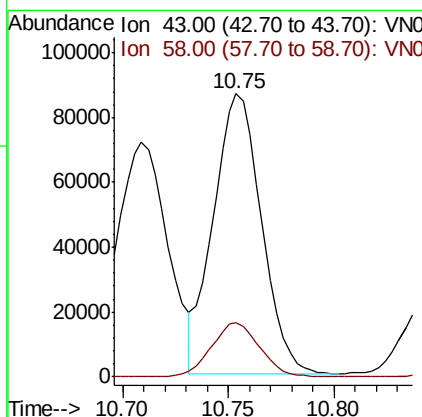
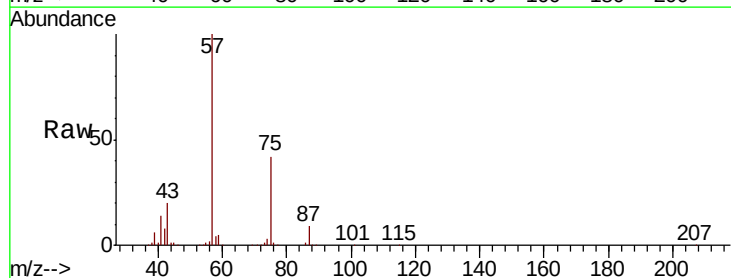
Instrument :
 MSVOA_N
 ClientSampleId :

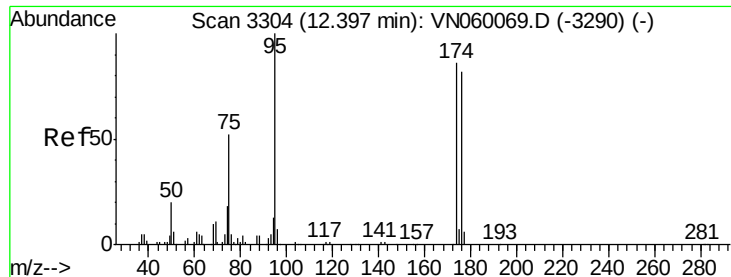
Tot Ion: 76 Resp: 10082
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.7 38.5#



#59
 2-Hexanone
 Concen: 75.086 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.01 min
 Lab File: VN060151.D
 Acq: 19 Feb 2020 13:24

Tgt Ion: 43 Resp: 137791
 Ion Ratio Lower Upper
 43 100
 58 19.3 27.5 82.4#





#62

4-Bromofluorobenzene

Concen: 51.992 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.00 min

Lab File: VN060151.D

Acq: 19 Feb 2020 13:24

Instrument :

MSVOA_N

ClientSampleId :

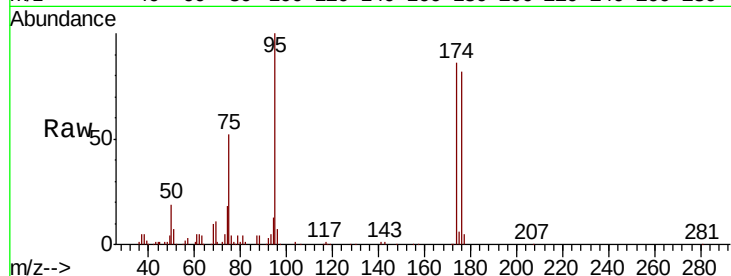
Tot Ion: 95 Resp: 132641

Ion Ratio Lower Upper

95 100

174 84.2 0.0 169.8

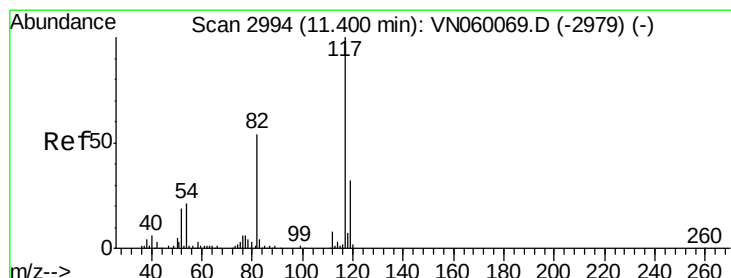
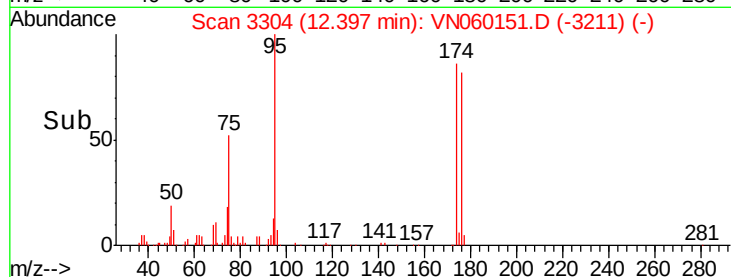
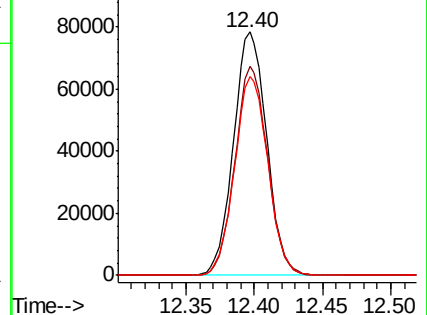
176 81.9 0.0 164.8



Abundance Ion 94.90 (94.60 to 95.60): VN060069.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN060069.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN060069.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. -0.00 min

Lab File: VN060151.D

Acq: 19 Feb 2020 13:24

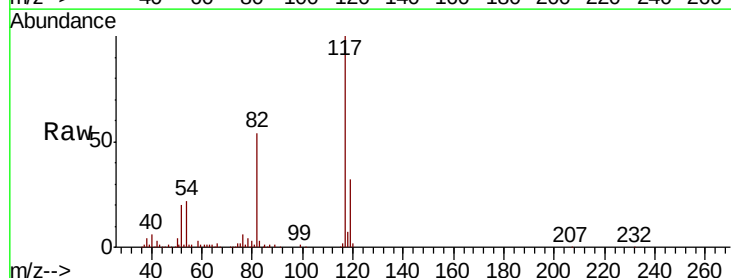
Tgt Ion: 117 Resp: 281151

Ion Ratio Lower Upper

117 100

82 54.0 43.4 65.0

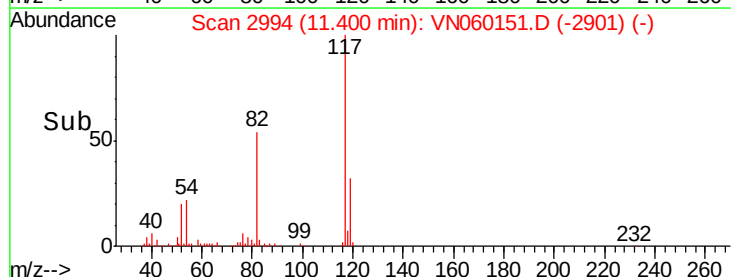
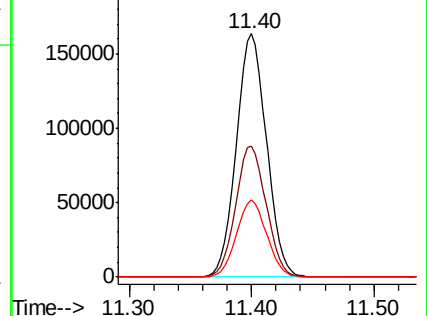
119 31.6 25.8 38.6

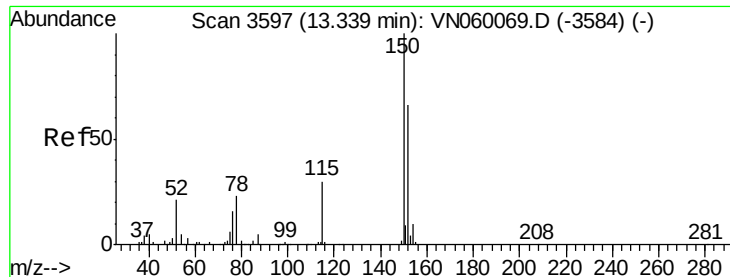


Abundance Ion 116.90 (116.60 to 117.60): VN060069.D (-2979) (-)

Ion 82.00 (81.70 to 82.70): VN060069.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN060069.D (-2979) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. -0.00 min

Lab File: VN060151.D

Acq: 19 Feb 2020 13:24

Instrument :

MSVOA_N

ClientSampleId :

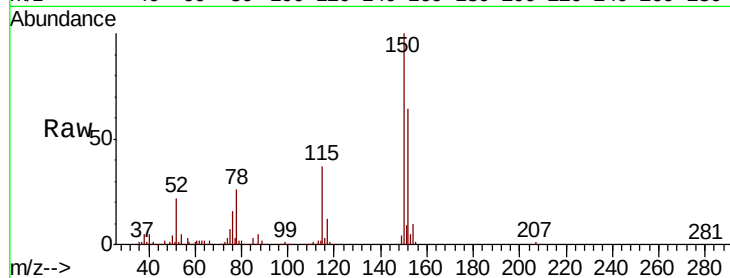
Tot Ion:152 Resp: 131757

Ion Ratio Lower Upper

152 100

115 57.9 28.9 86.8

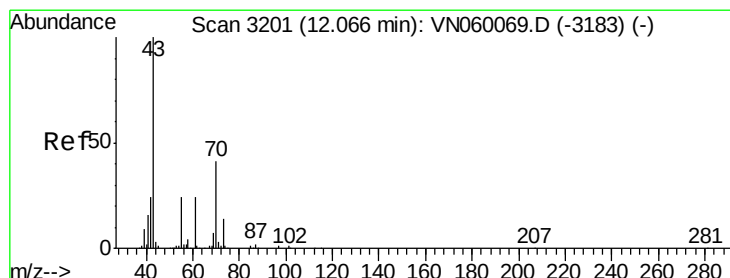
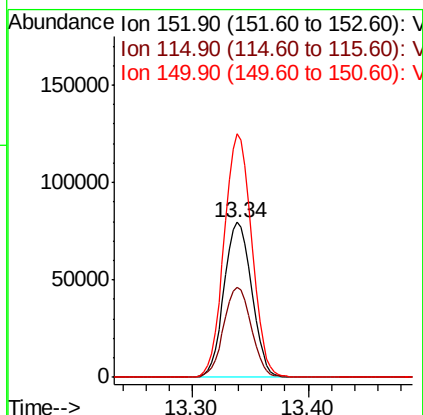
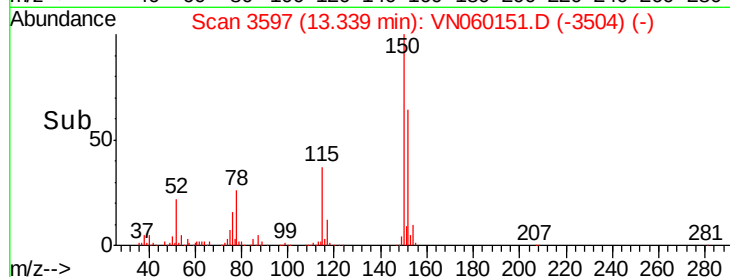
150 156.1 0.0 342.4



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: 2.003 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060151.D

Acq: 19 Feb 2020 13:24

Tgt Ion: 43 Resp: 7106

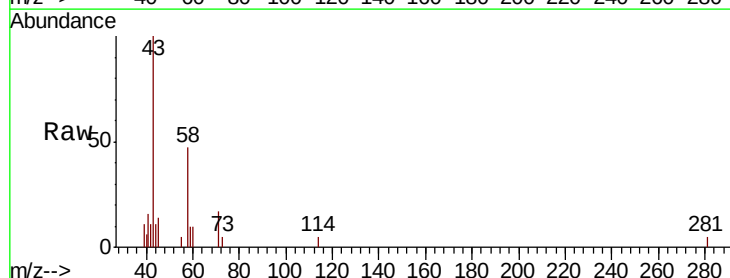
Ion Ratio Lower Upper

43 100

70 0.0 33.4 50.0#

55 3.2 18.8 28.2#

61 0.0 19.2 28.8#

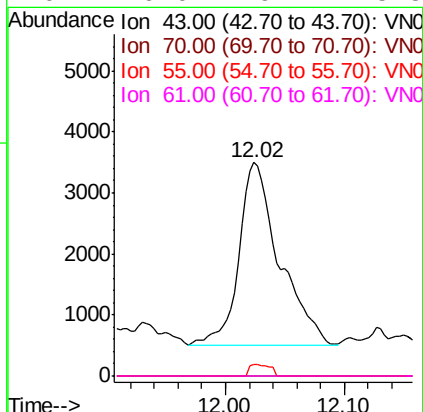
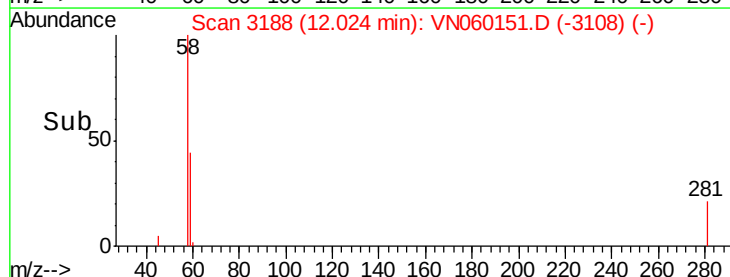


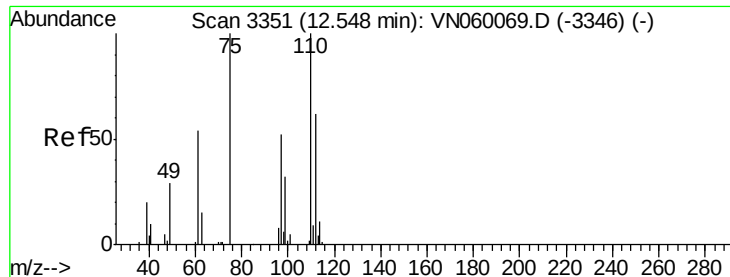
Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 27.072 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060151.D

Acq: 19 Feb 2020 13:24

Instrument :

MSVOA_N

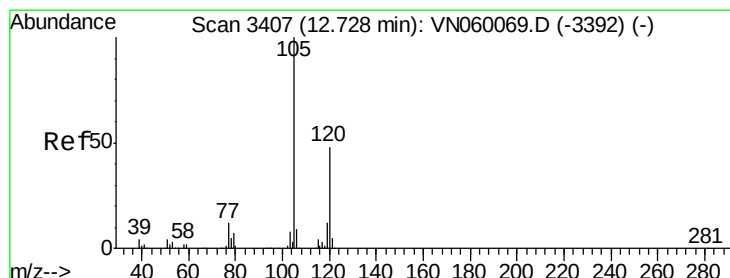
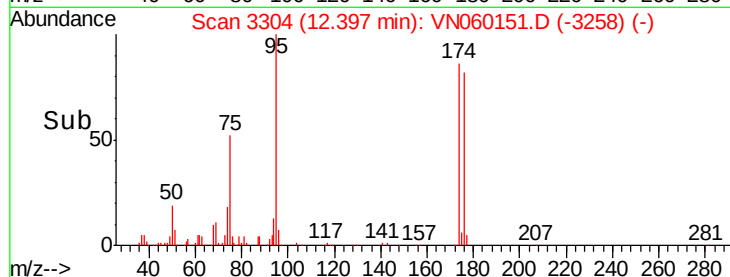
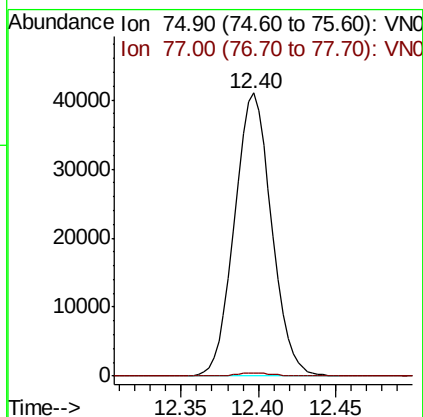
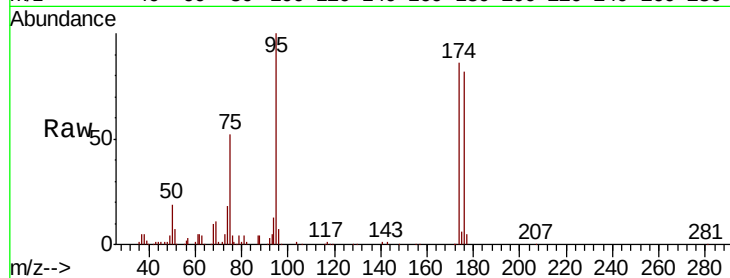
ClientSampled :

Tot Ion: 75 Resp: 68242

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#80

1,3,5-Trimethylbenzene

Concen: 0.302 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. -0.00 min

Lab File: VN060151.D

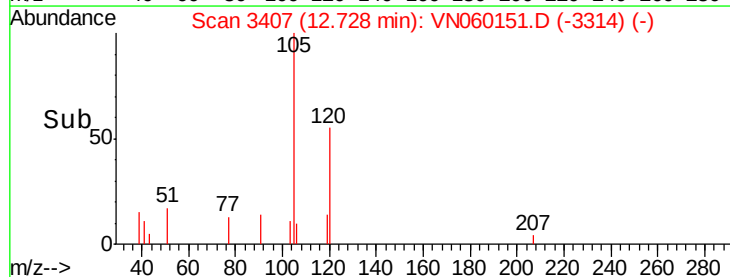
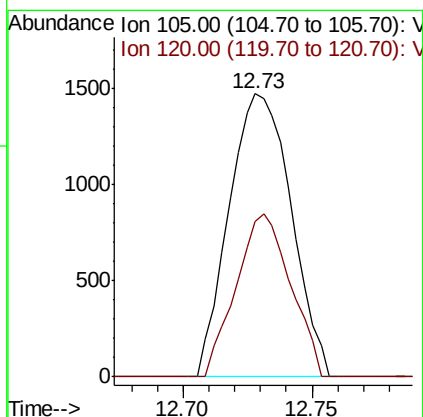
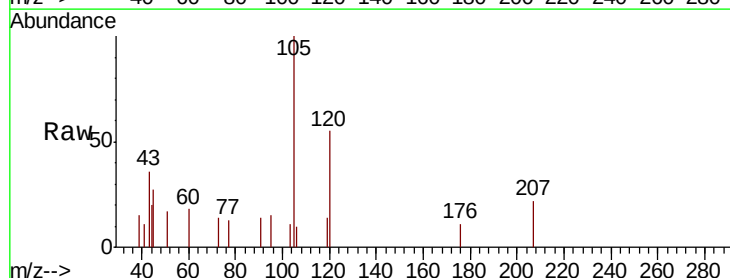
Acq: 19 Feb 2020 13:24

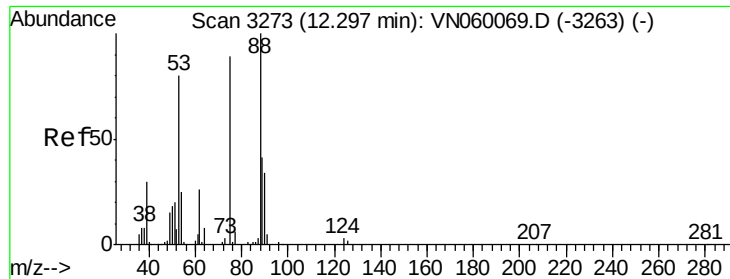
Tgt Ion: 105 Resp: 2471

Ion Ratio Lower Upper

105 100

120 50.5 24.3 72.9





#81

trans-1,4-Dichloro-2-butene

Concen: 66.285 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060151.D

Acq: 19 Feb 2020 13:24

Instrument :

MSVOA_N

ClientSampled :

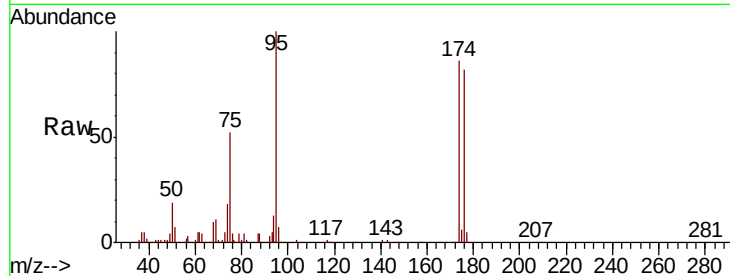
Tot Ion: 75 Resp: 68242

Ion Ratio Lower Upper

75 100

53 0.0 73.9 110.9#

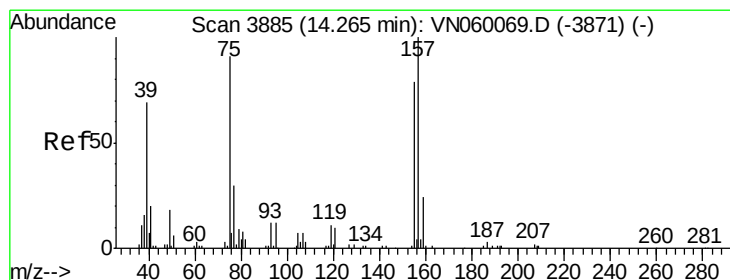
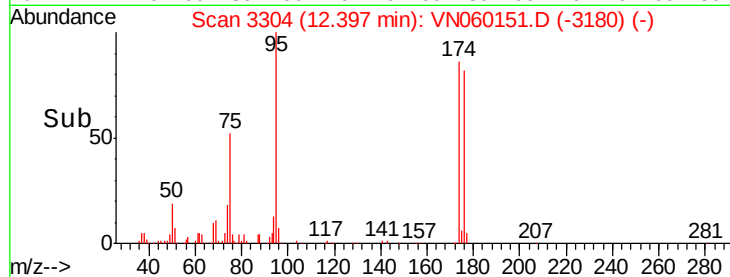
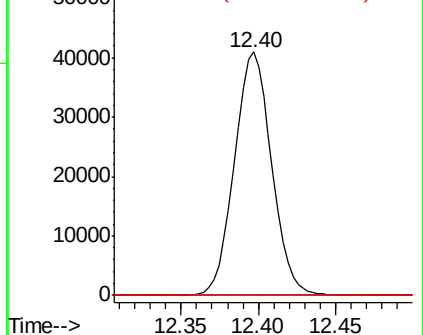
89 0.0 37.0 55.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.28 min Scan# 3890

Delta R.T. 0.02 min

Lab File: VN060151.D

Acq: 19 Feb 2020 13:24

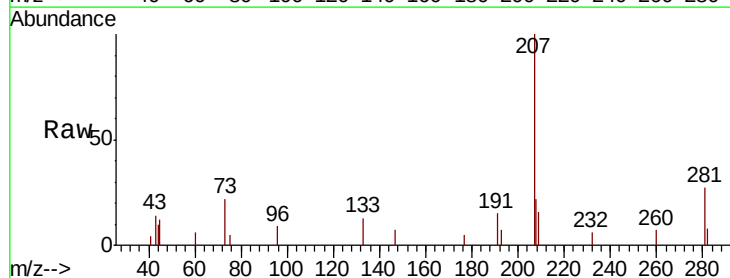
Tgt Ion: 75 Resp: 101

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

