

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN030220\
 Data File : VN060311.D
 Acq On : 2 Mar 2020 15:05
 Operator : JC/MD
 Sample : L1372-10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 03 05:46:59 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022720W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 27 13:52:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	195328	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	313744	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	291439	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	136382	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	124445	49.66	ug/l	0.00
Spiked Amount			Recovery	=	99.32%	
35) Dibromofluoromethane	7.57	113	86831	59.62	ug/l	0.00
Spiked Amount			Recovery	=	119.24%	
50) Toluene-d8	10.08	98	383781	52.07	ug/l	0.00
Spiked Amount			Recovery	=	104.14%	
62) 4-Bromofluorobenzene	12.40	95	143035	51.19	ug/l	0.00
Spiked Amount			Recovery	=	102.38%	

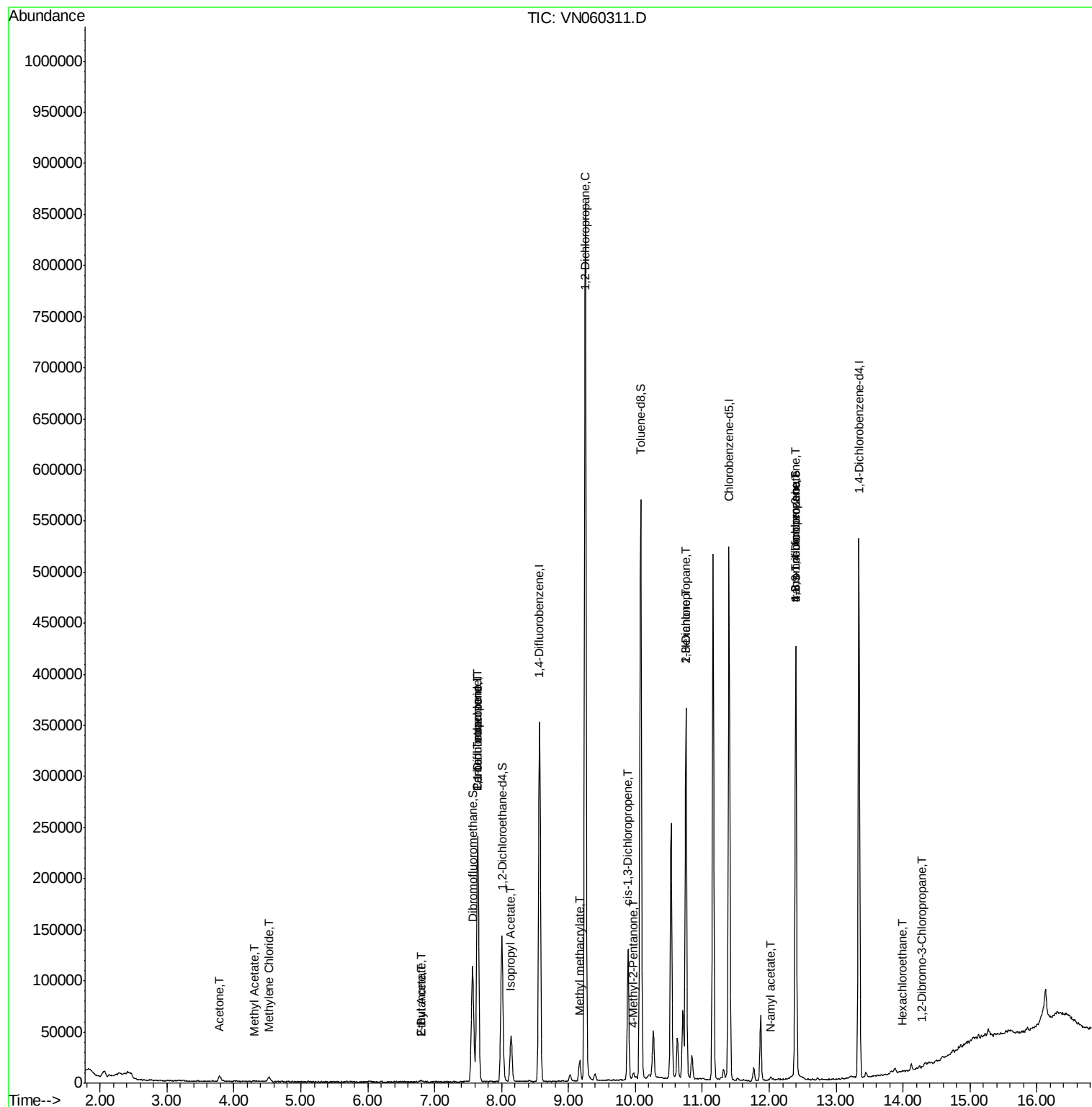
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
12) 1,1-Dichloroethene	3.68	96	101	Below Cal	#	1
16) Acetone	3.79	43	9411	11.629	ug/l	89
17) Carbon Disulfide	4.04	76	29	Below Cal	#	75
18) Methyl Acetate	4.30	43	1786	0.661	ug/l	52
20) Methylene Chloride	4.52	84	3615	1.626	ug/l	91
21) trans-1,2-Dichloroethene	4.80	96	62	Below Cal	#	1
25) 2-Butanone	6.80	43	1491	1.141	ug/l	49
31) Cyclohexane	7.64	56	4121	Below Cal	#	4
36) 1,1-Dichloropropene	7.64	75	15108	5.053	ug/l	50
37) Ethyl Acetate	6.80	43	1491	0.527	ug/l	68
38) Carbon Tetrachloride	7.64	117	18486	6.350	ug/l	16
43) Isopropyl Acetate	8.14	43	54957	11.088	ug/l	90
45) 1,2-Dichloropropane	9.25	63	1040	0.457	ug/l	44
48) Methyl methacrylate	9.16	41	3220	1.425	ug/l	13
51) 4-Methyl-2-Pentanone	9.97	43	4679	1.665	ug/l	91
54) cis-1,3-Dichloropropene	9.89	75	22340	5.859	ug/l	61
57) 1,3-Dichloropropane	10.75	76	3644	1.016	ug/l	42
59) 2-Hexanone	10.75	43	53360	25.860	ug/l	53
74) N-amyl acetate	12.02	43	3786	0.857	ug/l	44
76) 1,2,3-Trichloropropane	12.40	75	73858	24.683	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.40	75	73858	68.137	ug/l	8
87) 1,3-Dichlorobenzene	13.28	146	139	Below Cal	#	25
88) 1,4-Dichlorobenzene	13.35	146	171	Below Cal	#	1
90) Hexachloroethane	13.99	117	388	0.294	ug/l	8
92) 1,2-Dibromo-3-Chloropropan	14.27	75	140	0.225	ug/l	3

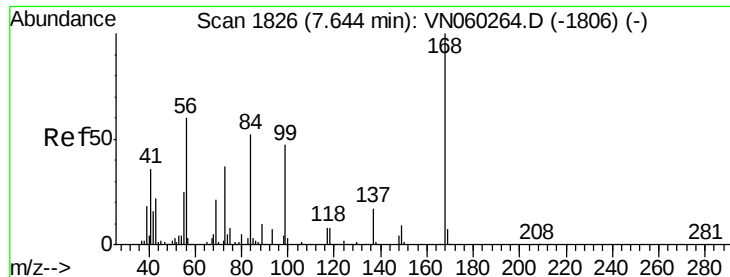
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N022720W.M
Quant Title : SW846 8260
QLast Update : Thu Feb 27 13:52:50 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: VN060311.D

Acq: 2 Mar 2020 15:05

Instrument :

MSVOA_N

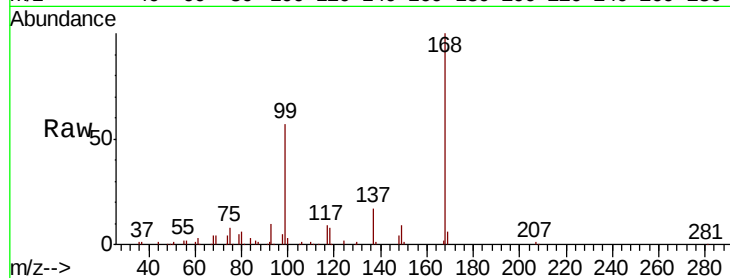
ClientSampleId :

Tot Ion:168 Resp: 195328

Ion Ratio Lower Upper

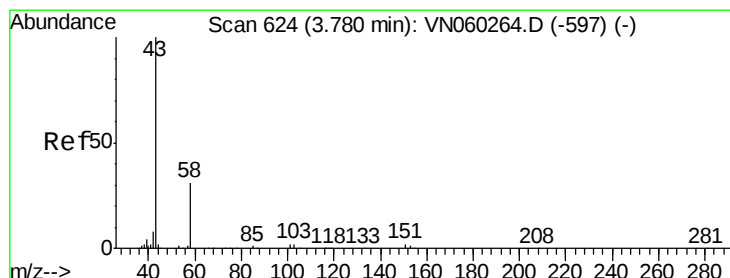
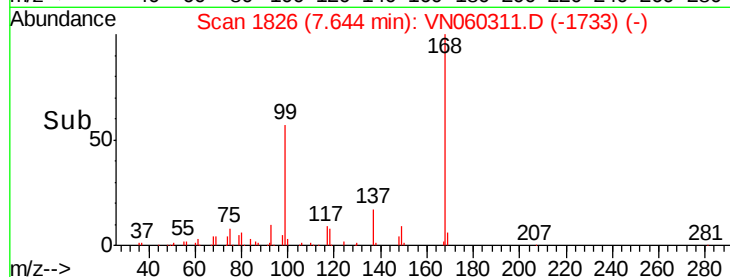
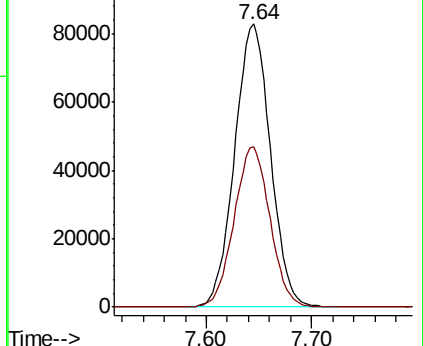
168 100

99 56.8 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 11.629 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN060311.D

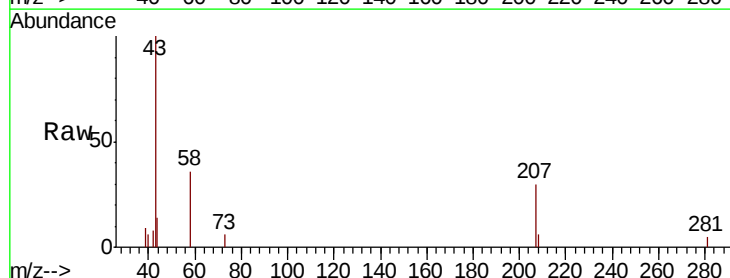
Acq: 2 Mar 2020 15:05

Tgt Ion: 43 Resp: 9411

Ion Ratio Lower Upper

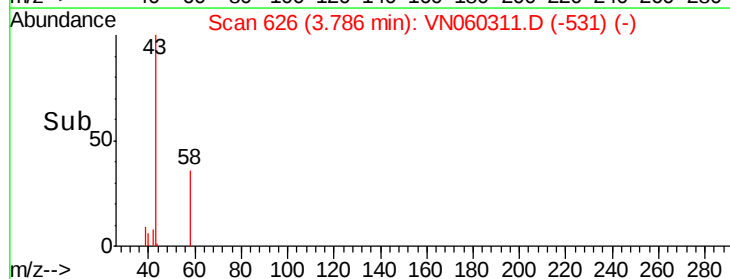
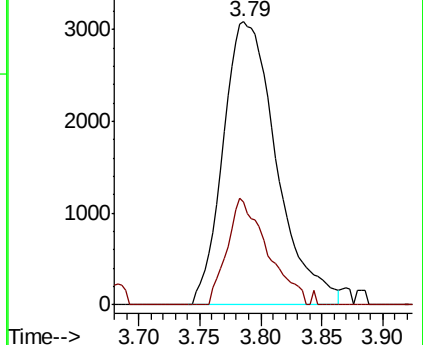
43 100

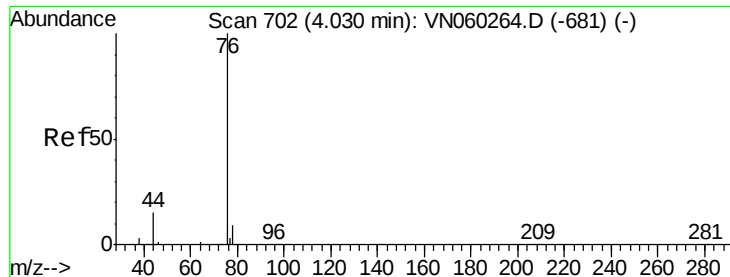
58 36.5 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

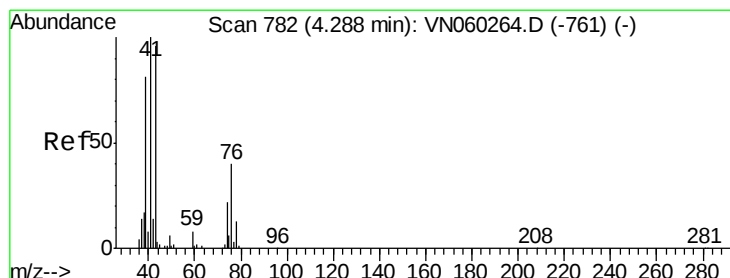
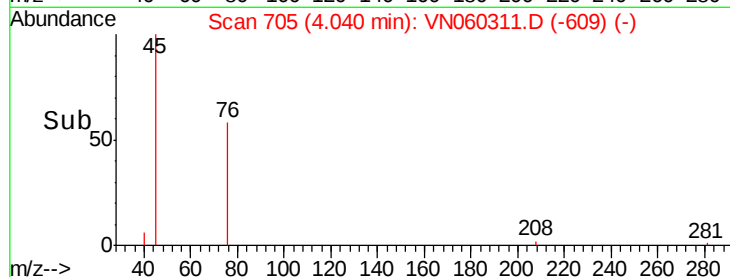
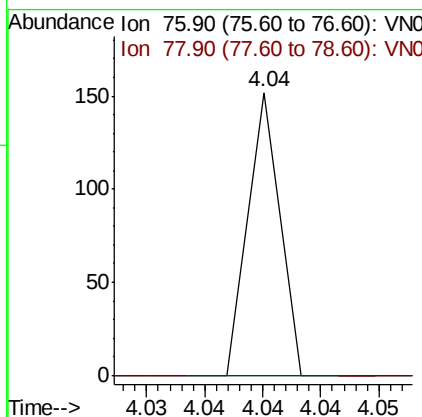
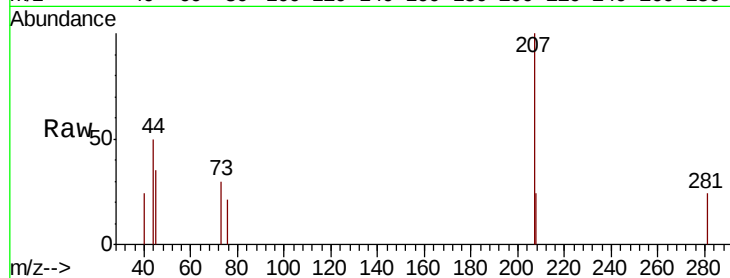




#17
Carbon Disulfide
Concen: Below Cal
RT: 4.04 min Scan# 705
Delta R.T. 0.01 min
Lab File: VN060311.D
Acq: 2 Mar 2020 15:05

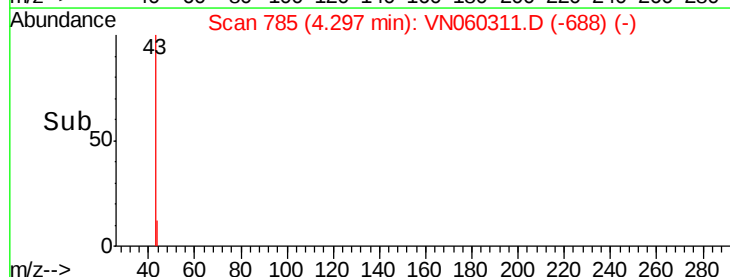
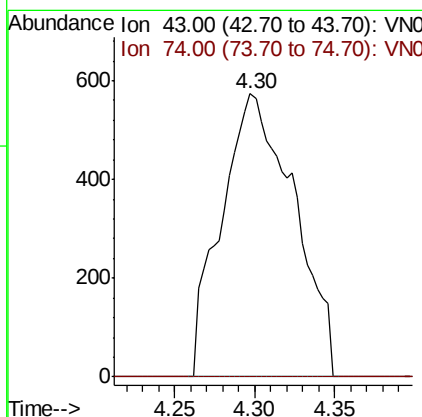
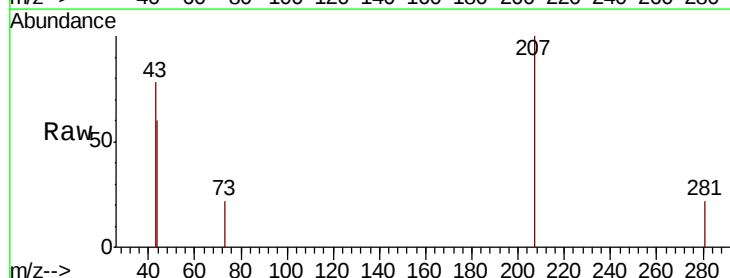
Instrument :
MSVOA_N
ClientSampleId :

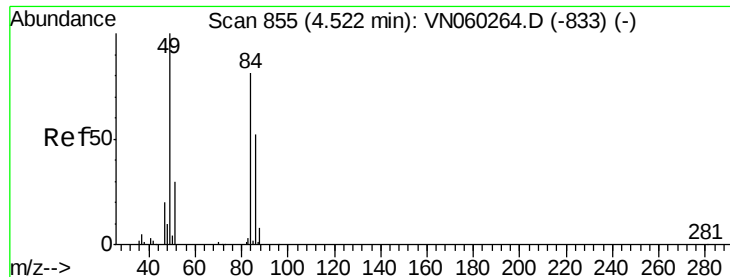
Tot Ion: 76 Resp: 29
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#



#18
Methyl Acetate
Concen: 0.661 ug/l
RT: 4.30 min Scan# 785
Delta R.T. 0.01 min
Lab File: VN060311.D
Acq: 2 Mar 2020 15:05

Tgt Ion: 43 Resp: 1786
Ion Ratio Lower Upper
43 100
74 0.0 18.8 28.2#

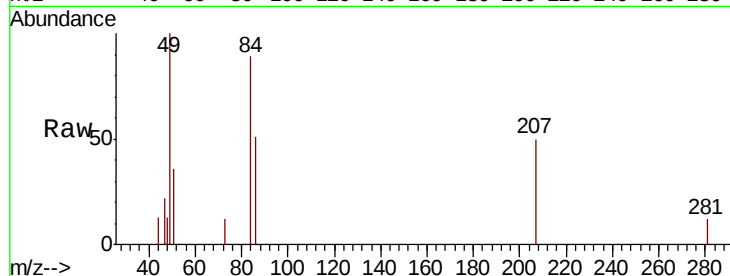




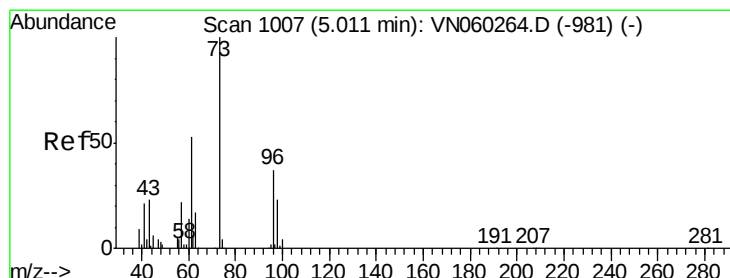
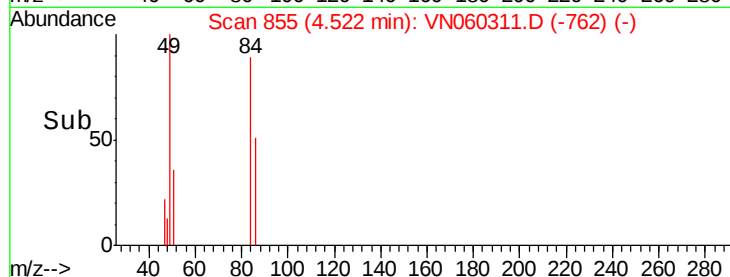
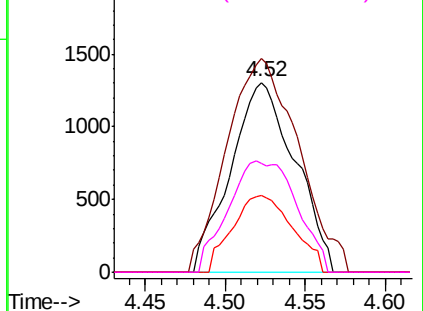
#20
Methylene Chloride
Concen: 1.626 ug/l
RT: 4.52 min Scan# 855
Delta R.T. -0.00 min
Lab File: VN060311.D
Acq: 2 Mar 2020 15:05

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 84 Resp: 3615
Ion Ratio Lower Upper
84 100
49 112.5 99.3 148.9
51 40.1 30.1 45.1
86 57.6 51.1 76.7

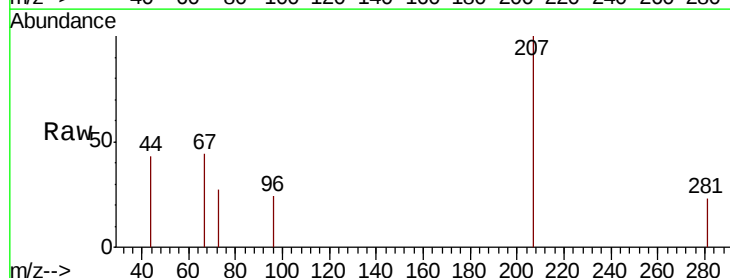


Abundance Ion 83.90 (83.60 to 84.60): VNO
Ion 48.90 (48.60 to 49.60): VNO
Ion 50.90 (50.60 to 51.60): VNO
Ion 85.90 (85.60 to 86.60): VNO

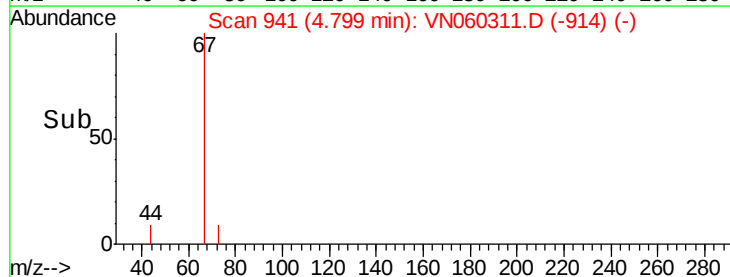
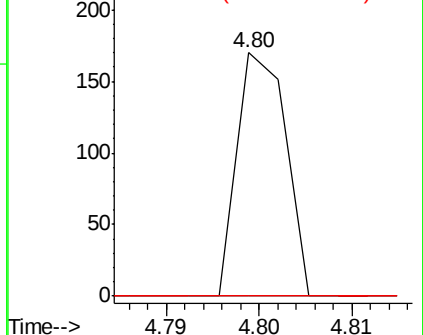


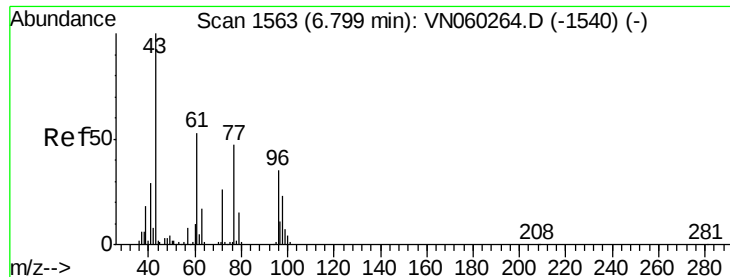
#21
trans-1,2-Dichloroethene
Concen: Below Cal
RT: 4.80 min Scan# 941
Delta R.T. -0.21 min
Lab File: VN060311.D
Acq: 2 Mar 2020 15:05

Tgt Ion: 96 Resp: 62
Ion Ratio Lower Upper
96 100
61 0.0 113.8 170.8#
98 0.0 48.8 73.2#



Abundance Ion 95.90 (95.60 to 96.60): VNO
Ion 60.90 (60.60 to 61.60): VNO
Ion 97.90 (97.60 to 98.60): VNO

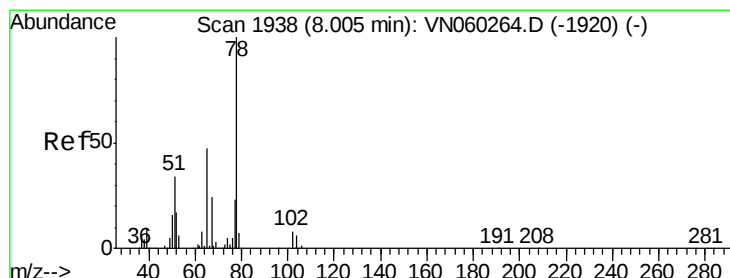
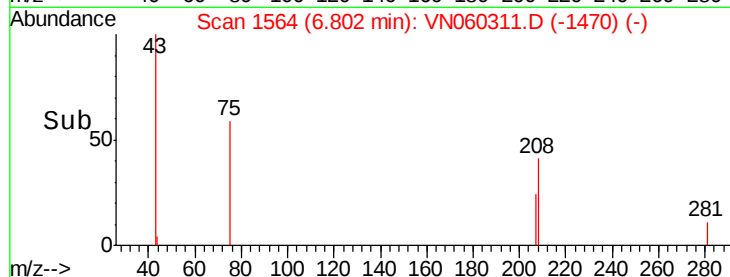
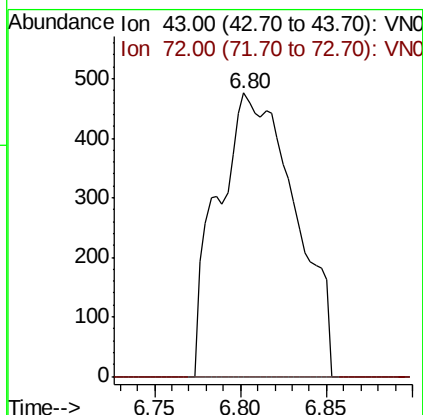
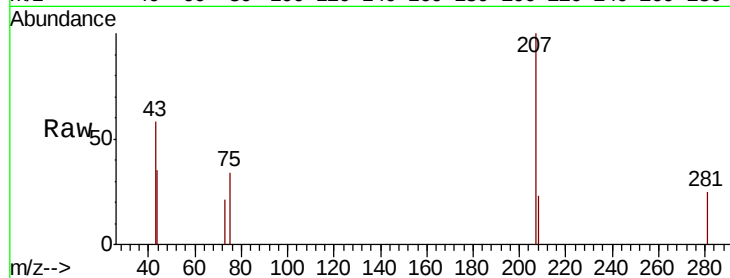




#25
2-Butanone
Concen: 1.141 ug/l
RT: 6.80 min Scan# 1564
Delta R.T. 0.00 min
Lab File: VN060311.D
Acq: 2 Mar 2020 15:05

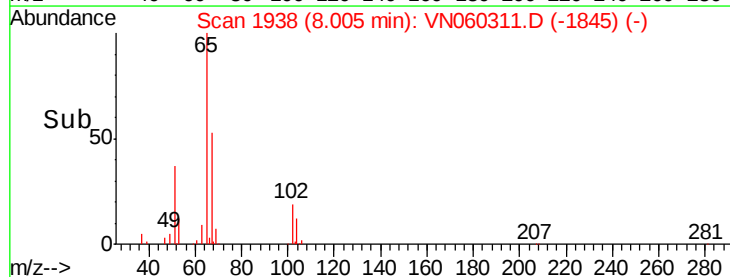
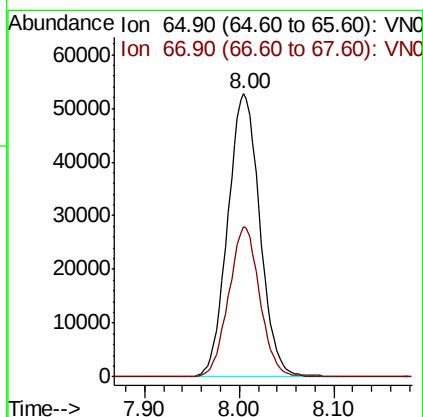
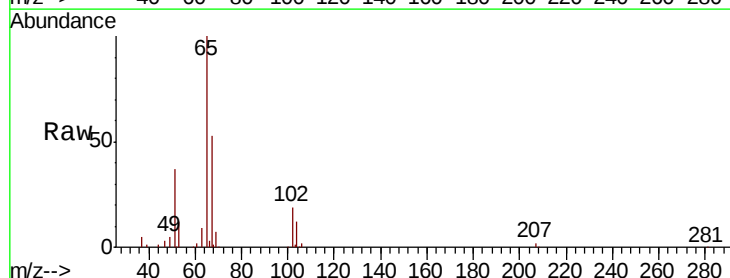
Instrument :
MSVOA_N
ClientSampleId :

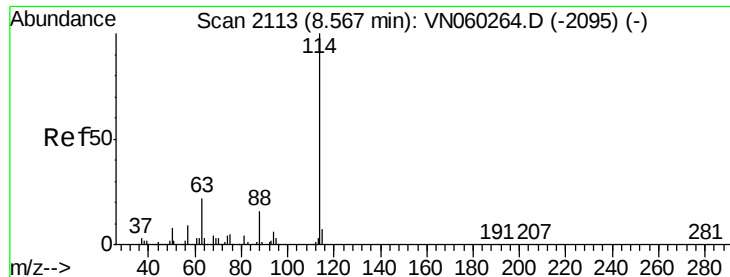
Tot Ion: 43 Resp: 1491
Ion Ratio Lower Upper
43 100
72 0.0 20.9 31.3#



#33
1,2-Dichloroethane-d4
Concen: 49.657 ug/l
RT: 8.00 min Scan# 1938
Delta R.T. -0.00 min
Lab File: VN060311.D
Acq: 2 Mar 2020 15:05

Tgt Ion: 65 Resp: 124445
Ion Ratio Lower Upper
65 100
67 51.3 0.0 103.8

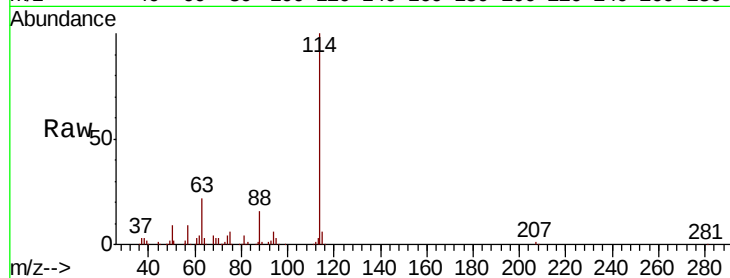




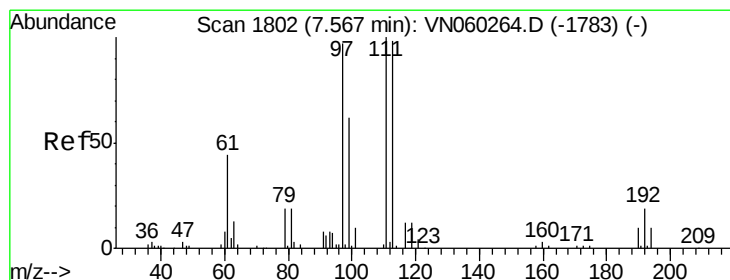
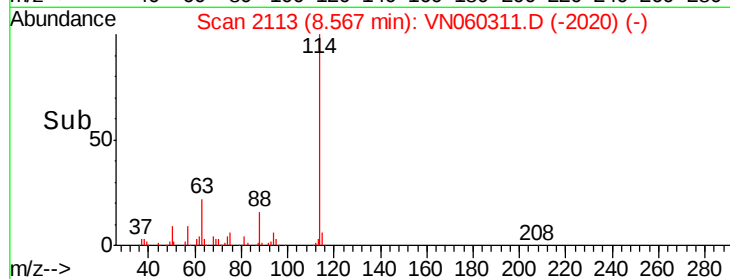
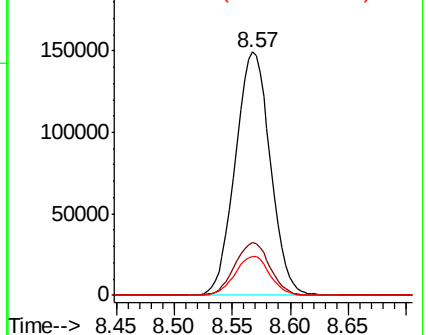
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN060311.D
 Acq: 2 Mar 2020 15:05

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 313744
 Ion Ratio Lower Upper
 114 100
 63 21.6 0.0 43.2
 88 16.0 0.0 31.6

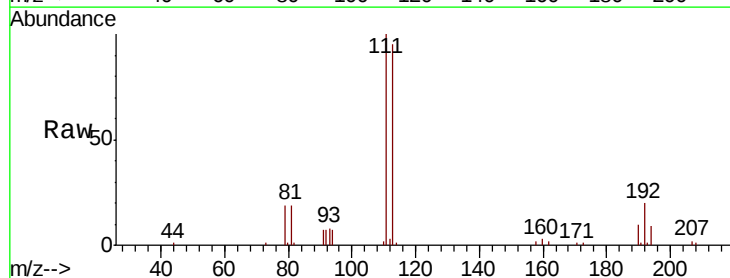


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

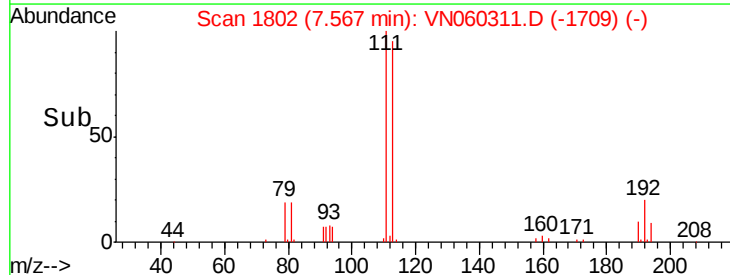
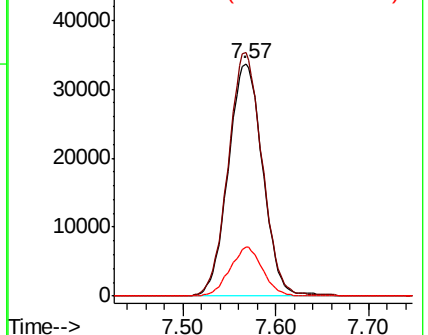


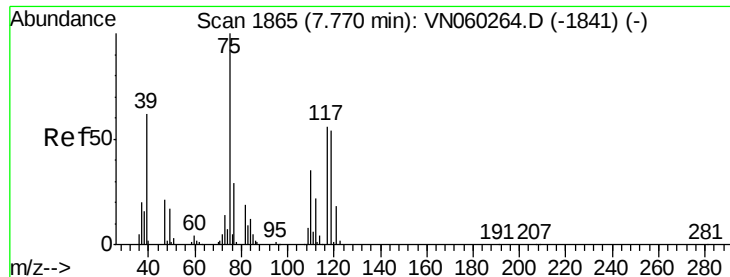
#35
 Dibromofluoromethane
 Concen: 59.625 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. -0.00 min
 Lab File: VN060311.D
 Acq: 2 Mar 2020 15:05

Tgt Ion:113 Resp: 86831
 Ion Ratio Lower Upper
 113 100
 111 103.0 82.4 123.6
 192 19.9 16.2 24.2



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: 5.053 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN060311.D

Acq: 2 Mar 2020 15:05

Instrument :

MSVOA_N

ClientSampleId :

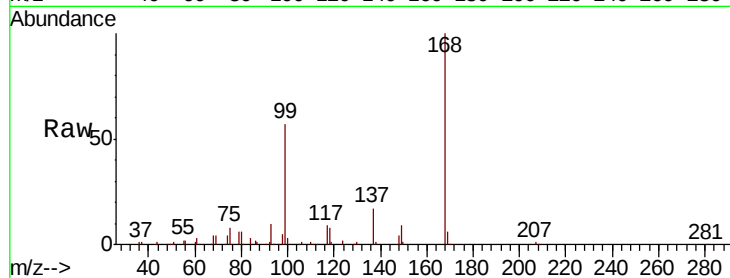
Tot Ion: 75 Resp: 15108

Ion Ratio Lower Upper

75 100

110 8.2 17.3 52.0#

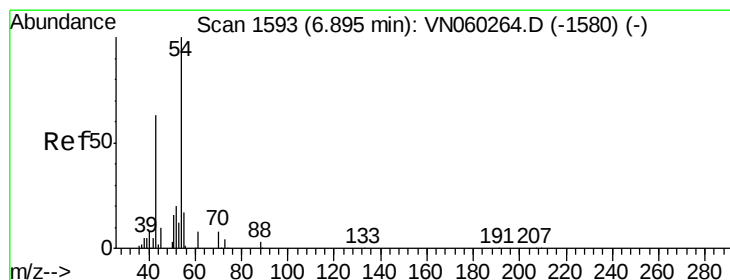
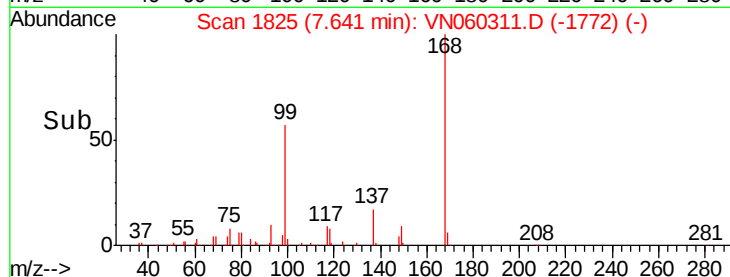
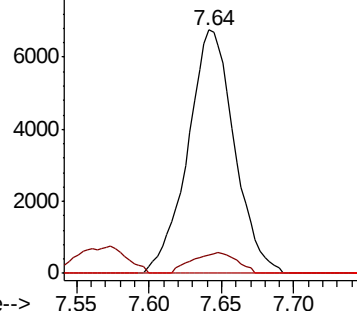
77 0.0 24.2 36.2#



Abundance Ion 74.90 (74.60 to 75.60): VN060311.D (-1772) (-)

Ion 109.90 (109.60 to 110.60): VN060311.D (-1772) (-)

Ion 76.90 (76.60 to 77.60): VN060311.D (-1772) (-)



#37

Ethyl Acetate

Concen: 0.527 ug/l

RT: 6.80 min Scan# 1564

Delta R.T. -0.09 min

Lab File: VN060311.D

Acq: 2 Mar 2020 15:05

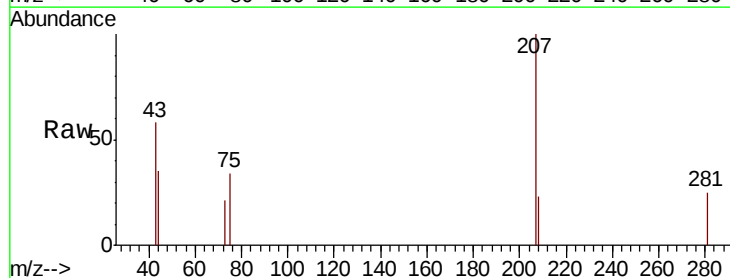
Tgt Ion: 43 Resp: 1491

Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

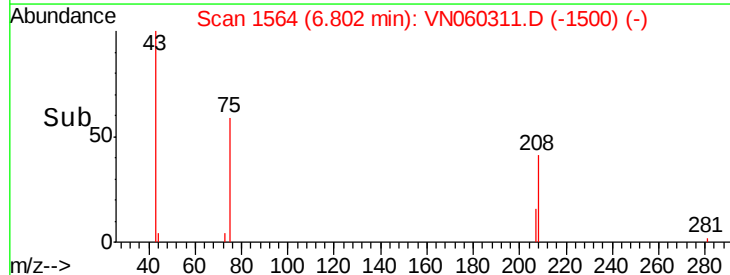
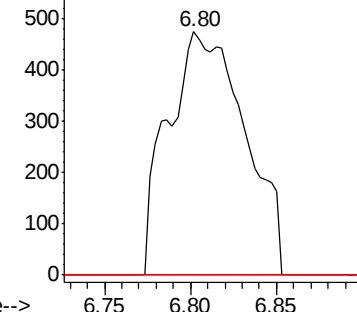
70 0.0 8.4 12.6#

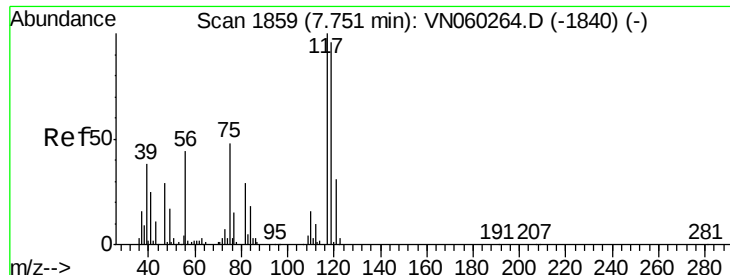


Abundance Ion 43.00 (42.70 to 43.70): VN060311.D (-1500) (-)

Ion 60.90 (60.60 to 61.60): VN060311.D (-1500) (-)

Ion 70.00 (69.70 to 70.70): VN060311.D (-1500) (-)





#38

Carbon Tetrachloride

Concen: 6.350 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN060311.D

Acq: 2 Mar 2020 15:05

Instrument :

MSVOA_N

ClientSampled :

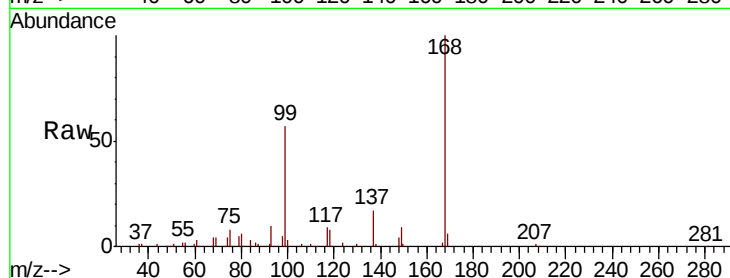
Tot Ion:117 Resp: 18486

Ion Ratio Lower Upper

117 100

119 5.1 76.7 115.1#

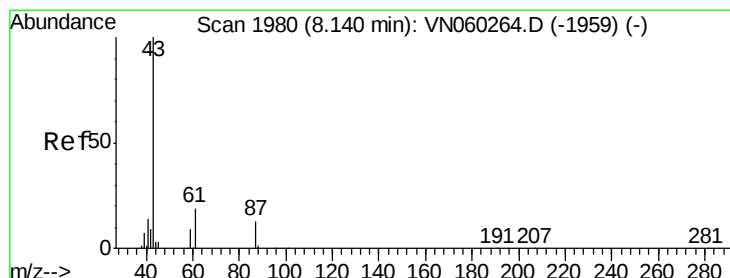
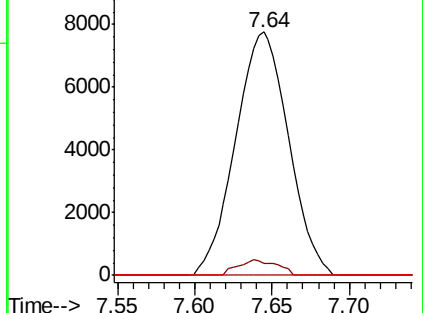
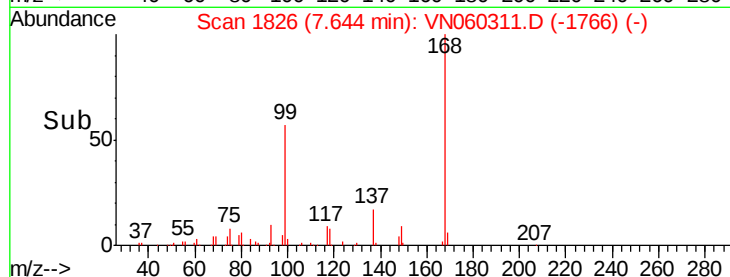
121 0.0 24.5 36.7#



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: 11.088 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. -0.00 min

Lab File: VN060311.D

Acq: 2 Mar 2020 15:05

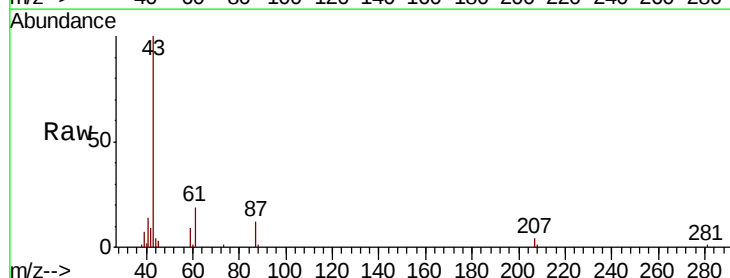
Tgt Ion: 43 Resp: 54957

Ion Ratio Lower Upper

43 100

61 18.7 20.9 31.3#

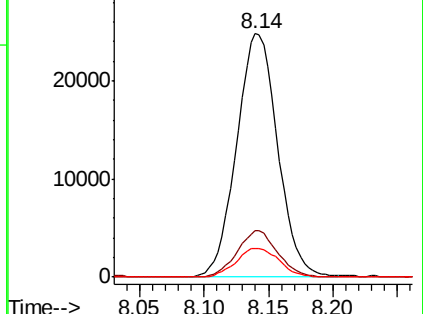
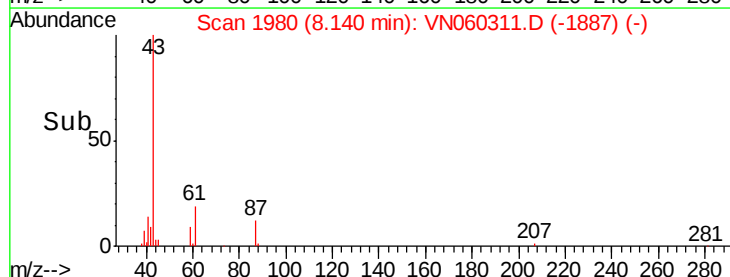
87 12.4 10.6 16.0

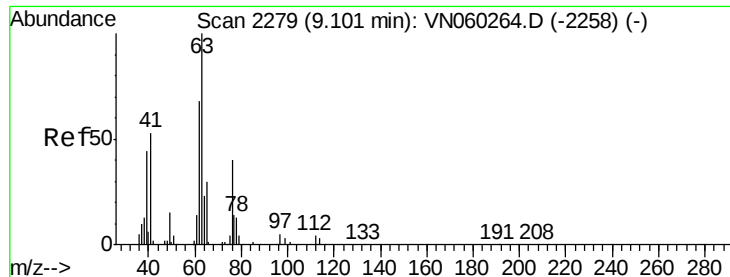


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.457 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN060311.D

Acq: 2 Mar 2020 15:05

Instrument :

MSVOA_N

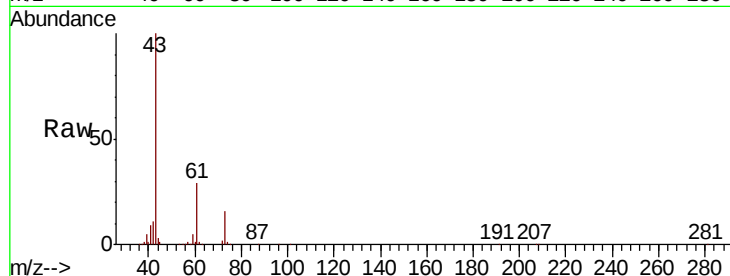
ClientSampleId :

Tot Ion: 63 Resp: 1040

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

9.25

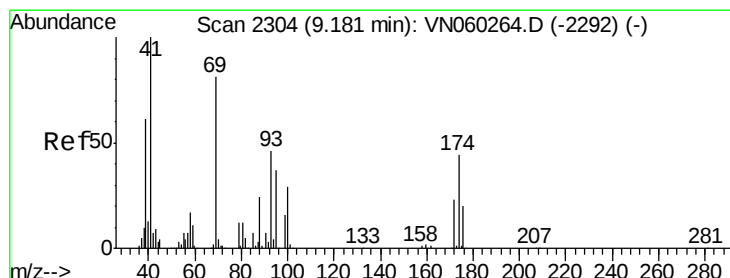
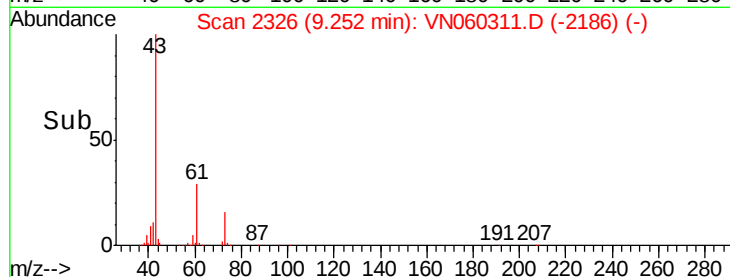
600

400

200

0

Time-->



#48

Methyl methacrylate

Concen: 1.425 ug/l

RT: 9.16 min Scan# 2298

Delta R.T. -0.02 min

Lab File: VN060311.D

Acq: 2 Mar 2020 15:05

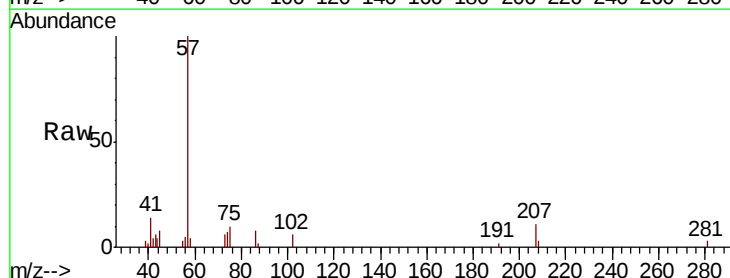
Tgt Ion: 41 Resp: 3220

Ion Ratio Lower Upper

41 100

69 0.0 66.7 100.1#

39 0.0 50.1 75.1#



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

40000

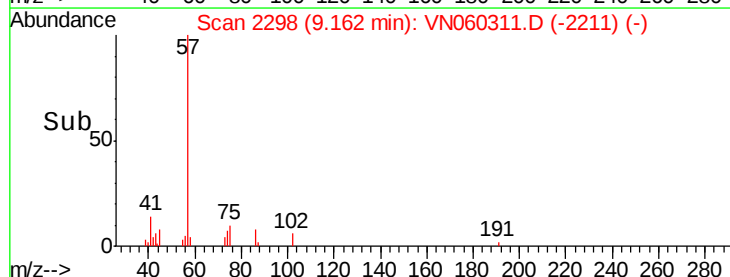
30000

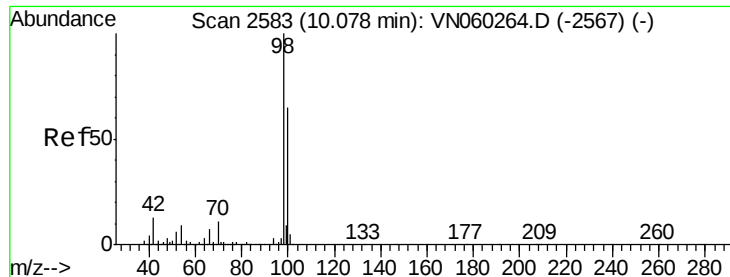
20000

10000

0

Time-->





#50

Toluene-d8

Concen: 52.070 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. -0.00 min

Lab File: VN060311.D

Acq: 2 Mar 2020 15:05

Instrument :

MSVOA_N

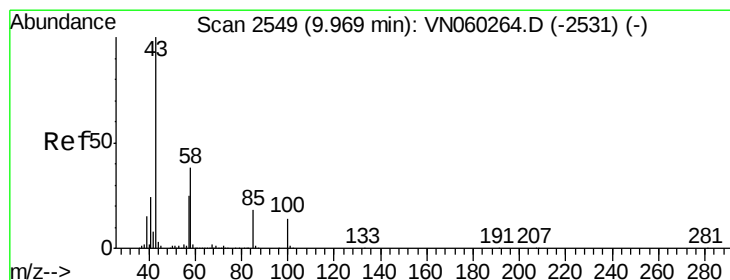
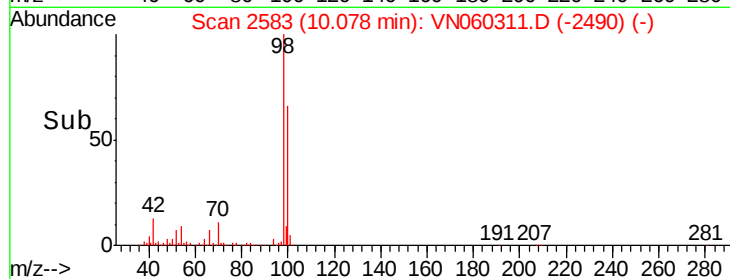
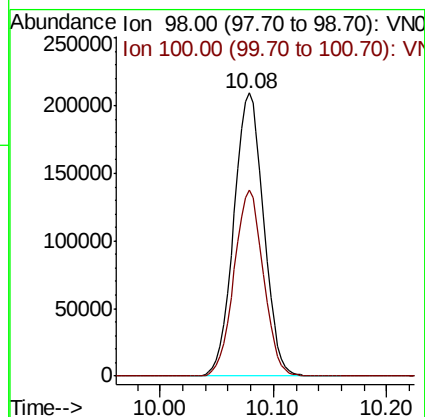
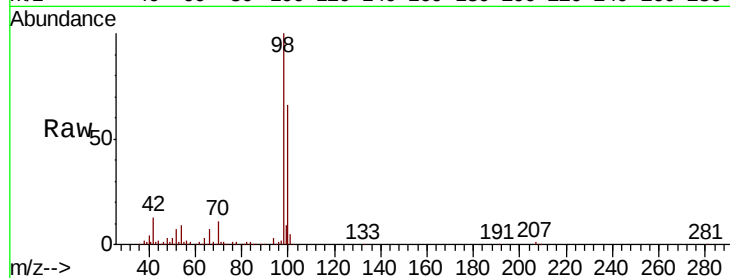
ClientSampleId :

Tot Ion: 98 Resp: 383781

Ion Ratio Lower Upper

98 100

100 64.8 52.2 78.2



#51

4-Methyl-2-Pentanone

Concen: 1.665 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. -0.00 min

Lab File: VN060311.D

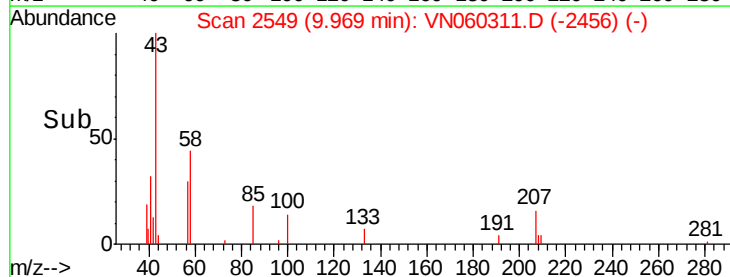
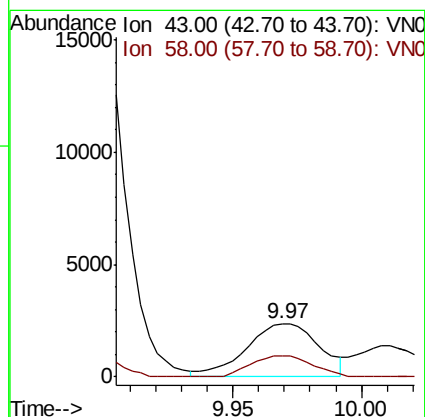
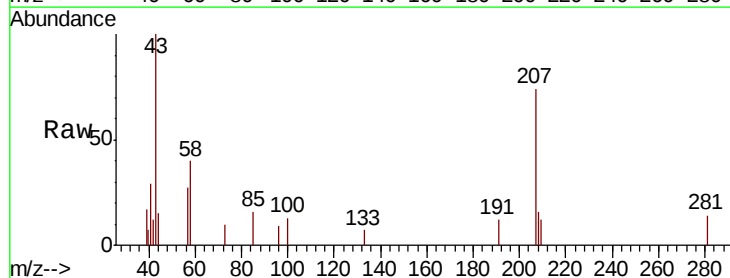
Acq: 2 Mar 2020 15:05

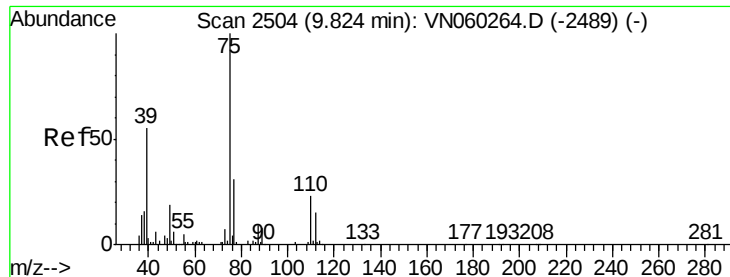
Tgt Ion: 43 Resp: 4679

Ion Ratio Lower Upper

43 100

58 33.3 30.9 46.3





#54

cis-1,3-Dichloropropene

Concen: 5.859 ug/l

RT: 9.89 min Scan# 2525

Delta R.T. 0.07 min

Lab File: VN060311.D

Acq: 2 Mar 2020 15:05

Instrument :

MSVOA_N

ClientSampleId :

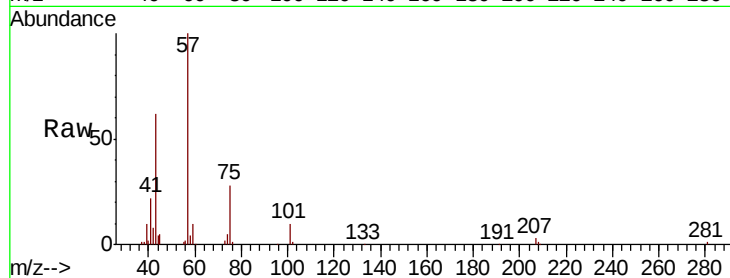
Tot Ion: 75 Resp: 22340

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

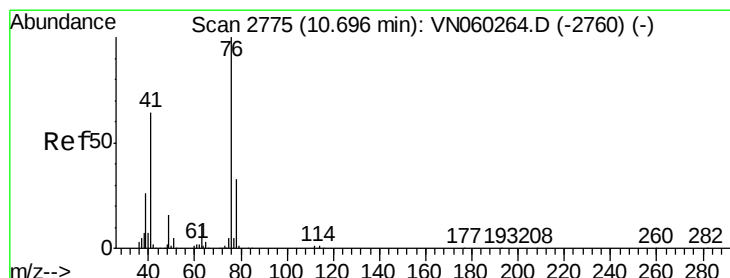
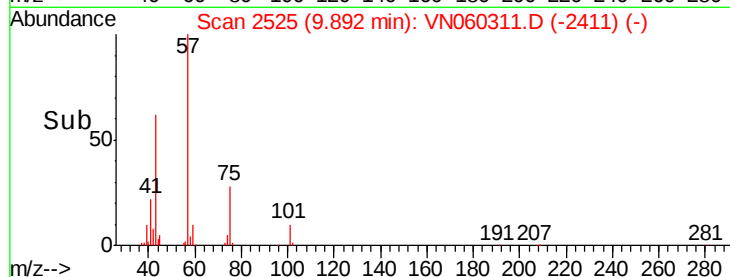
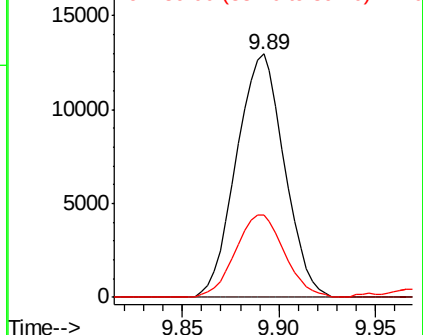
39 33.9 43.8 65.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.016 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060311.D

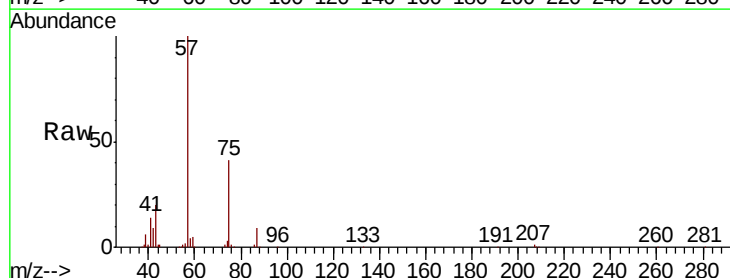
Acq: 2 Mar 2020 15:05

Tgt Ion: 76 Resp: 3644

Ion Ratio Lower Upper

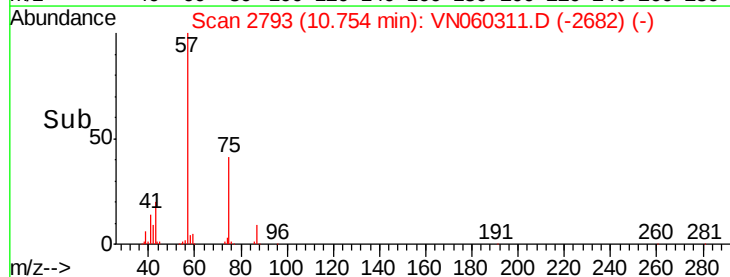
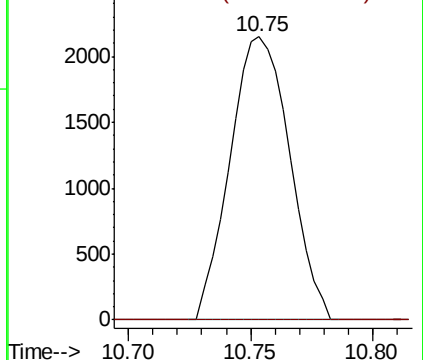
76 100

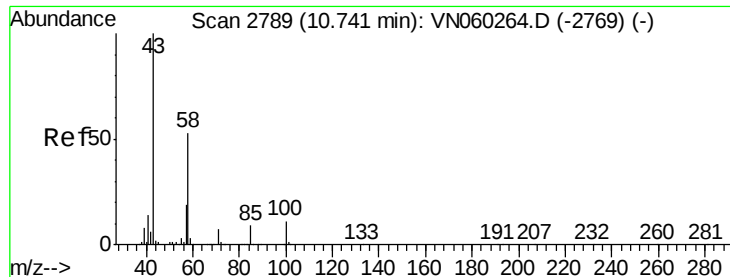
78 0.0 26.2 39.2#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

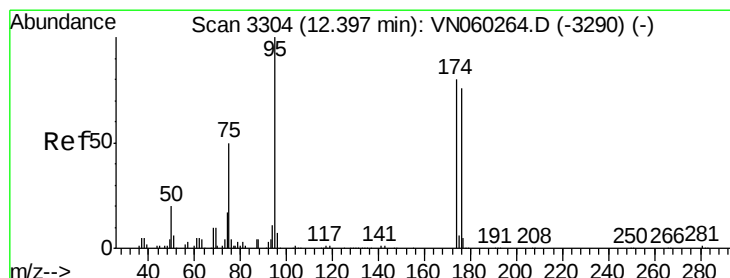
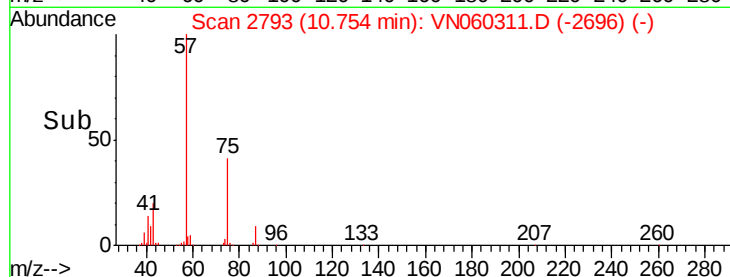
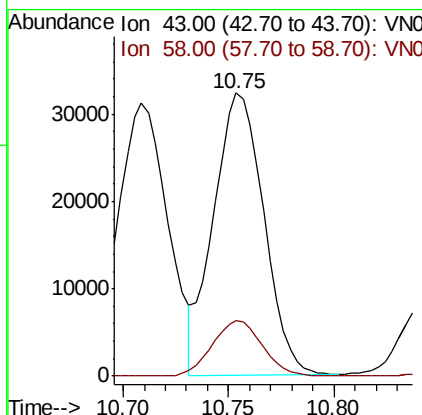
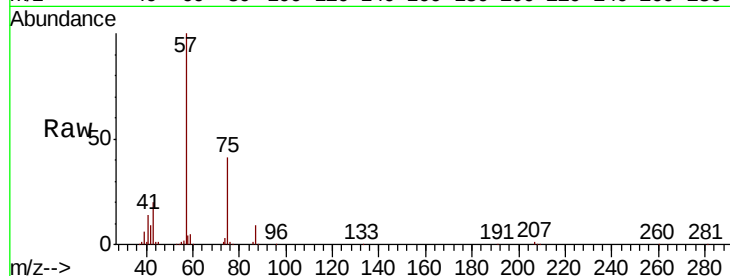




#59
2-Hexanone
Concen: 25.860 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060311.D
Acq: 2 Mar 2020 15:05

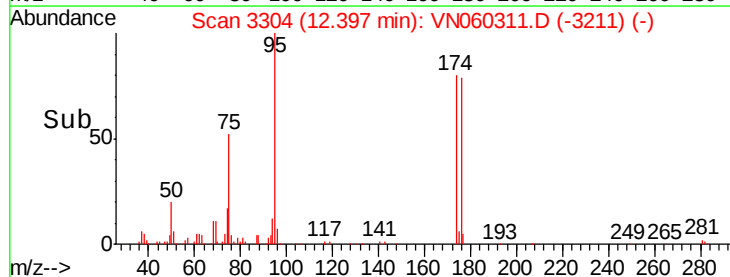
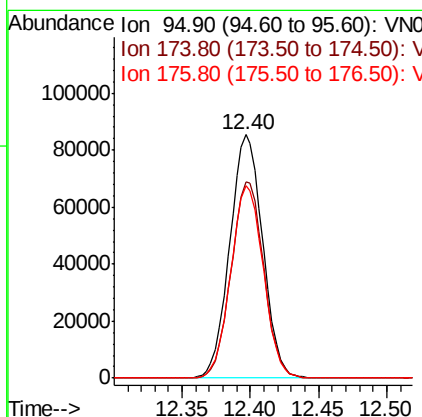
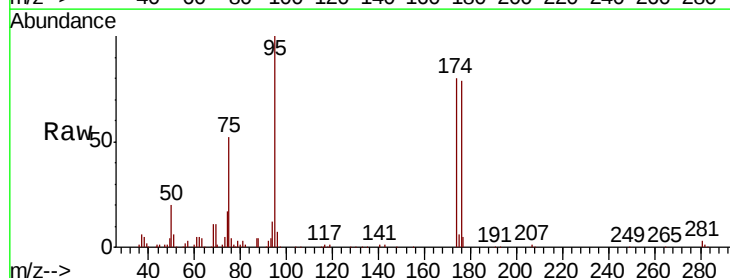
Instrument :
MSVOA_N
ClientSampleId :

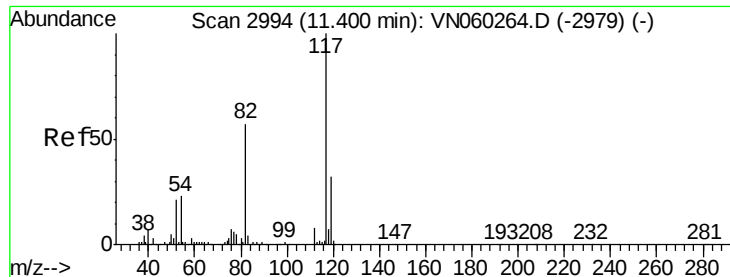
Tot Ion: 43 Resp: 53360
Ion Ratio Lower Upper
43 100
58 19.6 26.5 79.5#



#62
4-Bromofluorobenzene
Concen: 51.194 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.00 min
Lab File: VN060311.D
Acq: 2 Mar 2020 15:05

Tgt Ion: 95 Resp: 143035
Ion Ratio Lower Upper
95 100
174 79.9 0.0 159.2
176 78.2 0.0 153.8

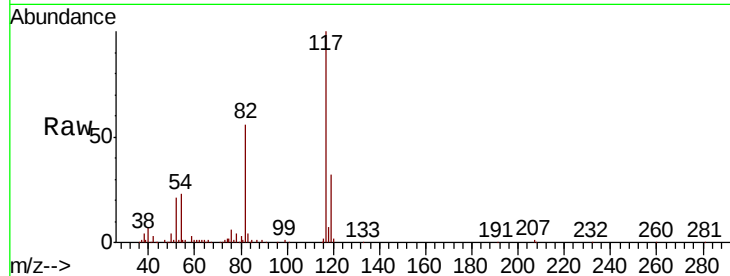




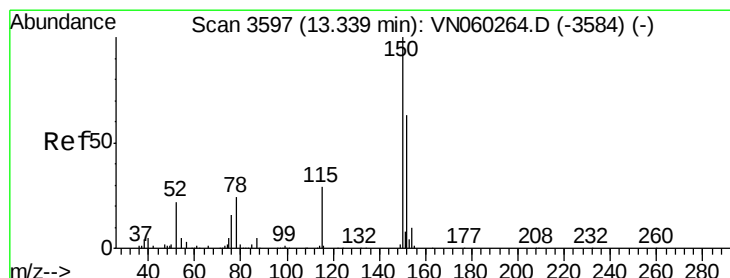
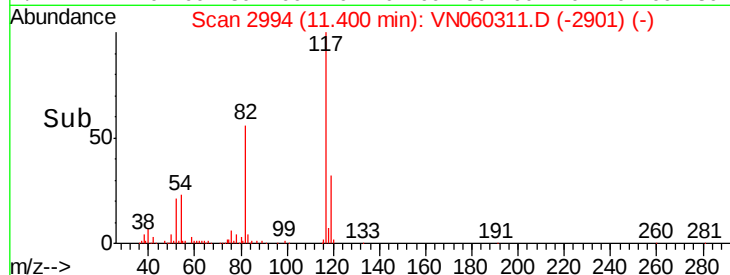
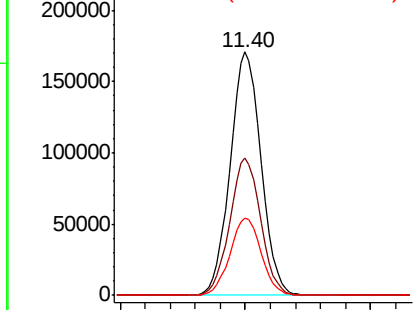
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. -0.00 min
Lab File: VN060311.D
Acq: 2 Mar 2020 15:05

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 291439
Ion Ratio Lower Upper
117 100
82 56.4 45.8 68.6
119 31.9 25.8 38.8

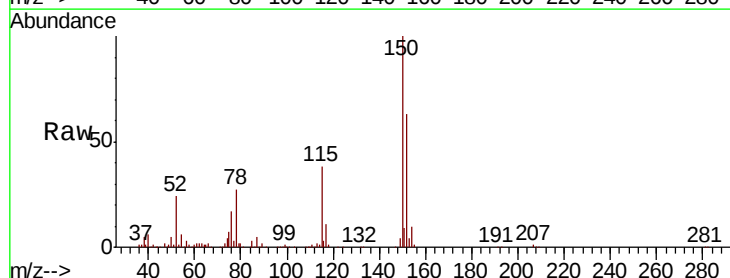


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

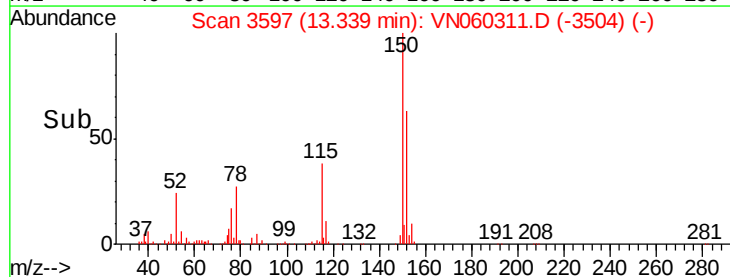
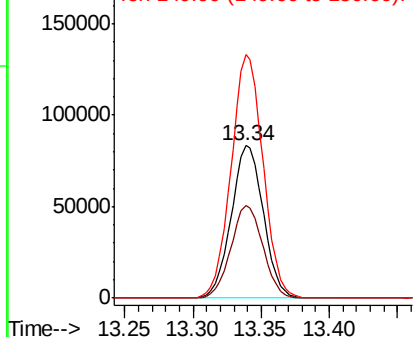


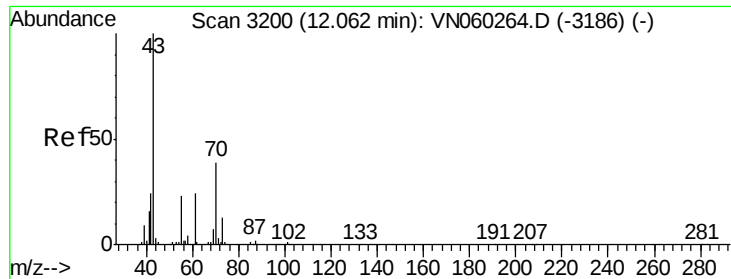
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. -0.00 min
Lab File: VN060311.D
Acq: 2 Mar 2020 15:05

Tgt Ion:152 Resp: 136382
Ion Ratio Lower Upper
152 100
115 60.5 30.0 90.0
150 158.4 0.0 349.6



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

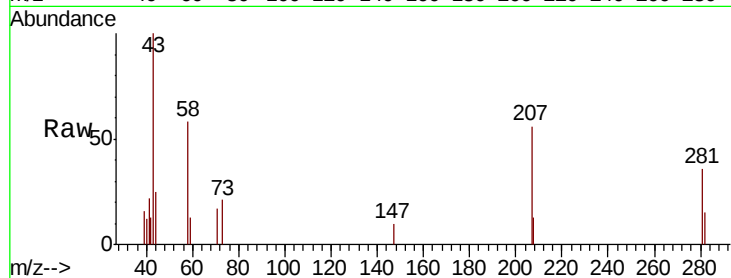




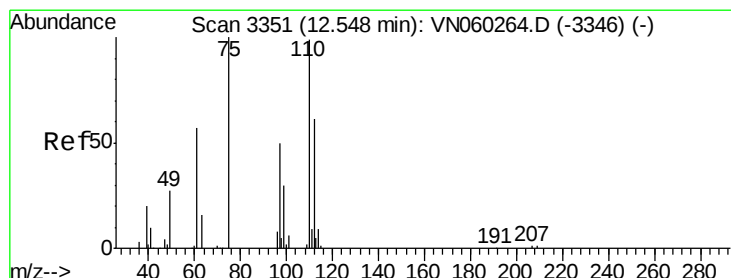
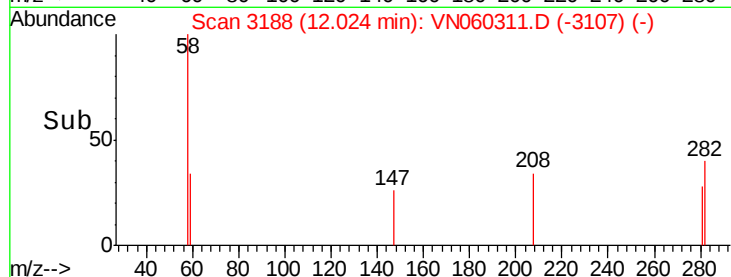
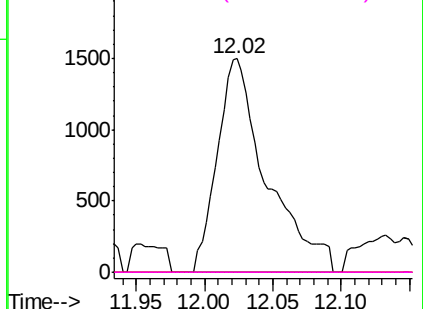
#74
N-amyl acetate
Concen: 0.857 ug/l
RT: 12.02 min Scan# 3188
Delta R.T. -0.04 min
Lab File: VN060311.D
Acq: 2 Mar 2020 15:05

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:	43	Resp:	3786
Ion	Ratio	Lower	Upper
43	100		
70	0.0	32.2	48.2#
55	0.0	18.2	27.4#
61	0.0	19.2	28.8#

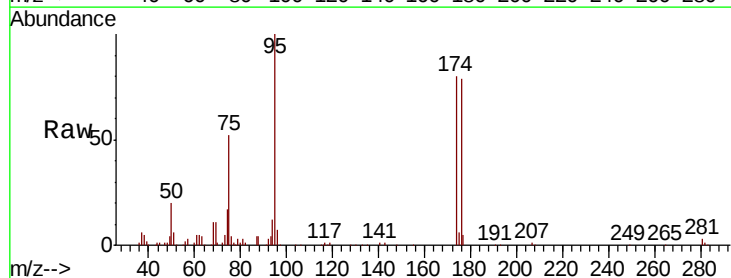


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 70.00 (69.70 to 70.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 61.00 (60.70 to 61.70): VN0

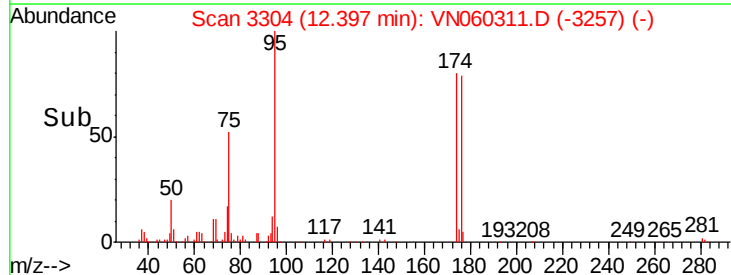
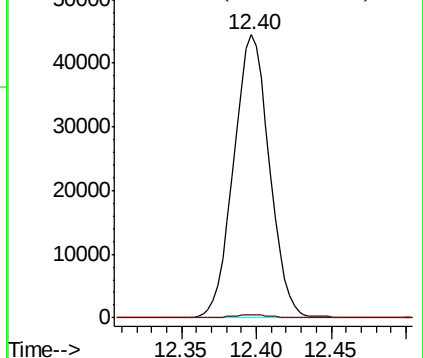


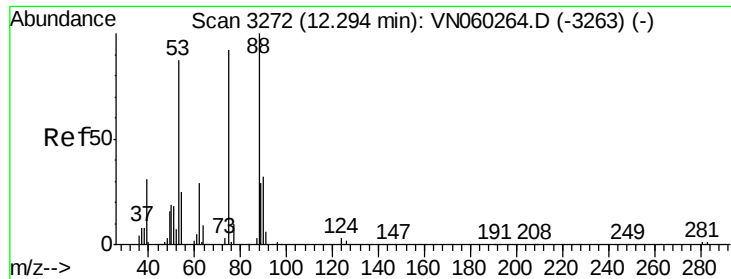
#76
1,2,3-Trichloropropane
Concen: 24.683 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.15 min
Lab File: VN060311.D
Acq: 2 Mar 2020 15:05

Tgt Ion:	75	Resp:	73858
Ion	Ratio	Lower	Upper
75	100		
77	1.0	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: 68.137 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060311.D

Acq: 2 Mar 2020 15:05

Instrument :

MSVOA_N

ClientSampled :

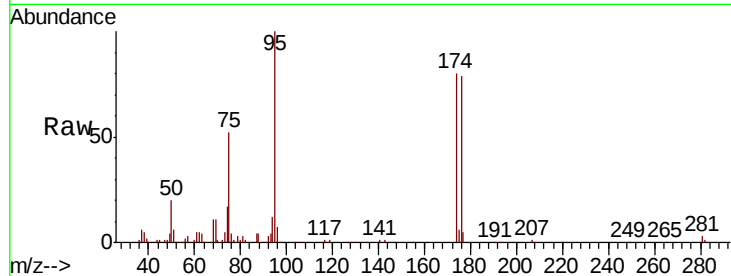
Tot Ion: 75 Resp: 73858

Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

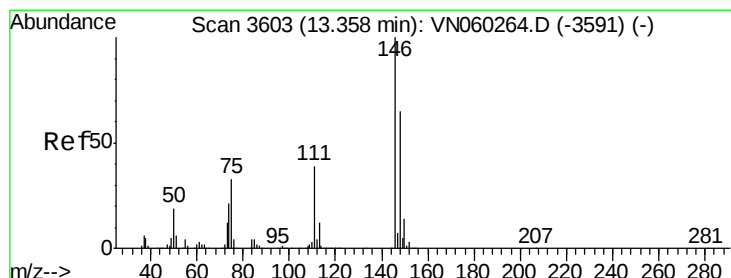
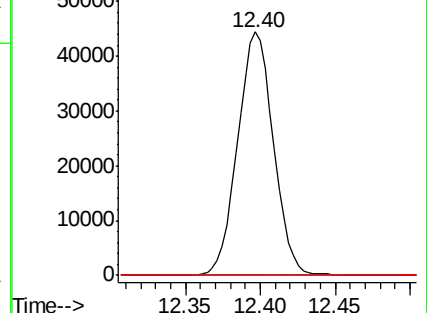
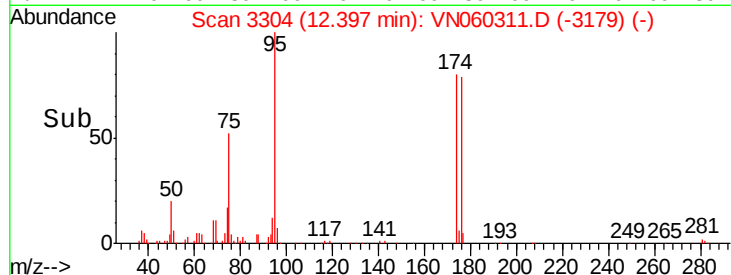
89 0.0 57.1 85.7#



Abundance Ion 74.90 (74.60 to 75.60): VN060311.D (-3179) (-)

Ion 53.00 (52.70 to 53.70): VN060311.D (-3179) (-)

Ion 88.90 (88.60 to 89.60): VN060311.D (-3179) (-)



#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 13.35 min Scan# 3602

Delta R.T. -0.00 min

Lab File: VN060311.D

Acq: 2 Mar 2020 15:05

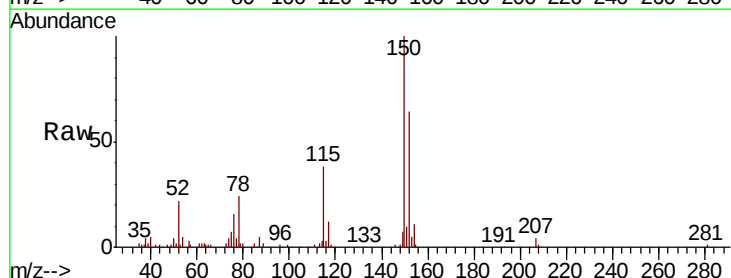
Tgt Ion: 146 Resp: 171

Ion Ratio Lower Upper

146 100

111 1107.0 19.8 59.4#

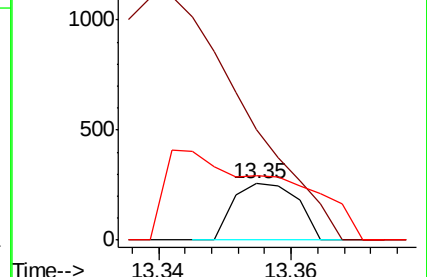
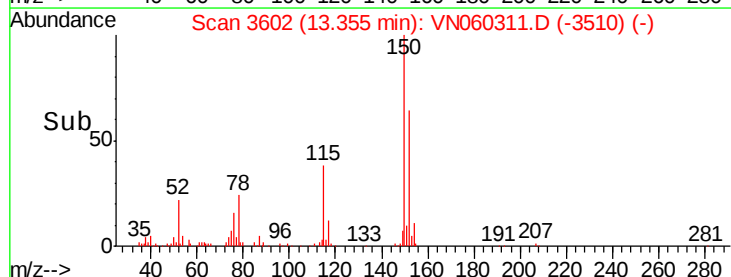
148 296.5 32.3 96.9#

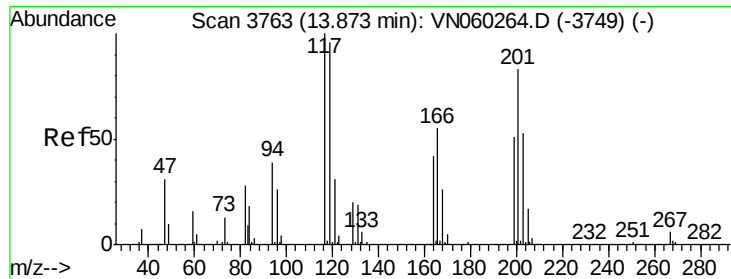


Abundance Ion 145.90 (145.60 to 146.60): VN060311.D (-3510) (-)

Ion 110.90 (110.60 to 111.60): VN060311.D (-3510) (-)

Ion 147.90 (147.60 to 148.60): VN060311.D (-3510) (-)

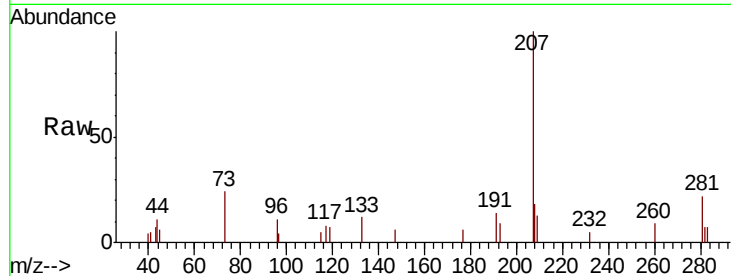




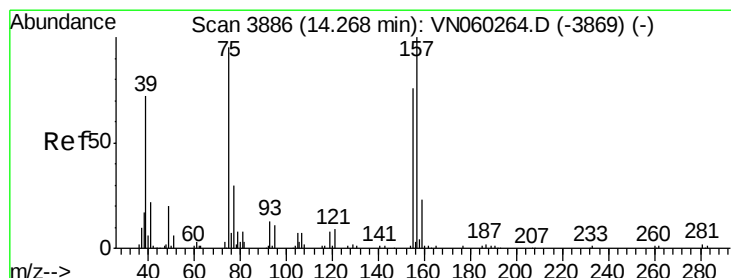
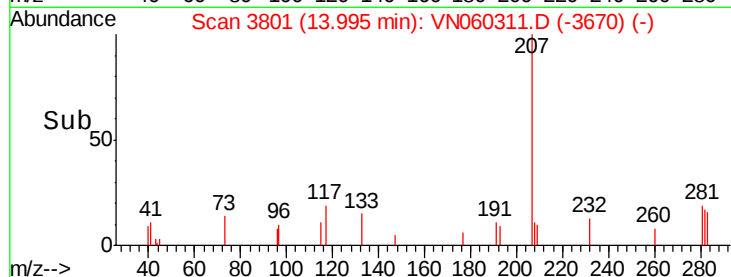
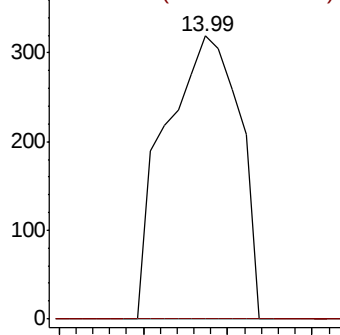
#90
Hexachloroethane
Concen: 0.294 ug/l
RT: 13.99 min Scan# 3801
Delta R.T. 0.12 min
Lab File: VN060311.D
Acq: 2 Mar 2020 15:05

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 388
Ion Ratio Lower Upper
117 100
201 0.0 41.0 123.0#

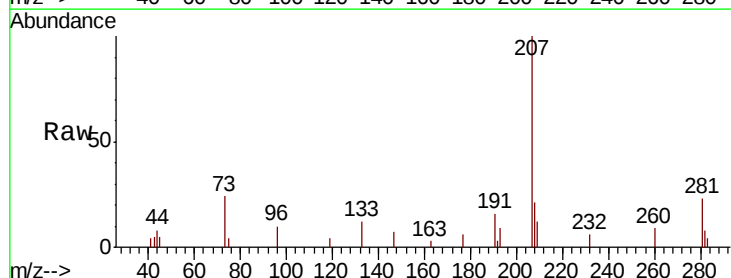


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 200.70 (200.40 to 201.40): V



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.225 ug/l
RT: 14.27 min Scan# 3887
Delta R.T. 0.00 min
Lab File: VN060311.D
Acq: 2 Mar 2020 15:05

Tgt Ion: 75 Resp: 140
Ion Ratio Lower Upper
75 100
155 0.0 40.4 121.2#
157 0.0 52.5 157.5#



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

