

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102820\
 Data File : VN064359.D
 Acq On : 28 Oct 2020 17:56
 Operator : JC/MD
 Sample : L4527-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VNJ-206

Quant Time: Oct 29 02:44:10 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N102720W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 27 12:23:17 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.62	168	237385	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	408159	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	411843	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	175679	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	184241	48.30	ug/l	0.00
Spiked Amount			Recovery	=	96.60%	
35) Dibromofluoromethane	7.54	113	133802	49.16	ug/l	0.00
Spiked Amount			Recovery	=	98.32%	
50) Toluene-d8	10.06	98	505775	50.24	ug/l	0.00
Spiked Amount			Recovery	=	100.48%	
62) 4-Bromofluorobenzene	12.38	95	215038	54.78	ug/l	0.00
Spiked Amount			Recovery	=	109.56%	

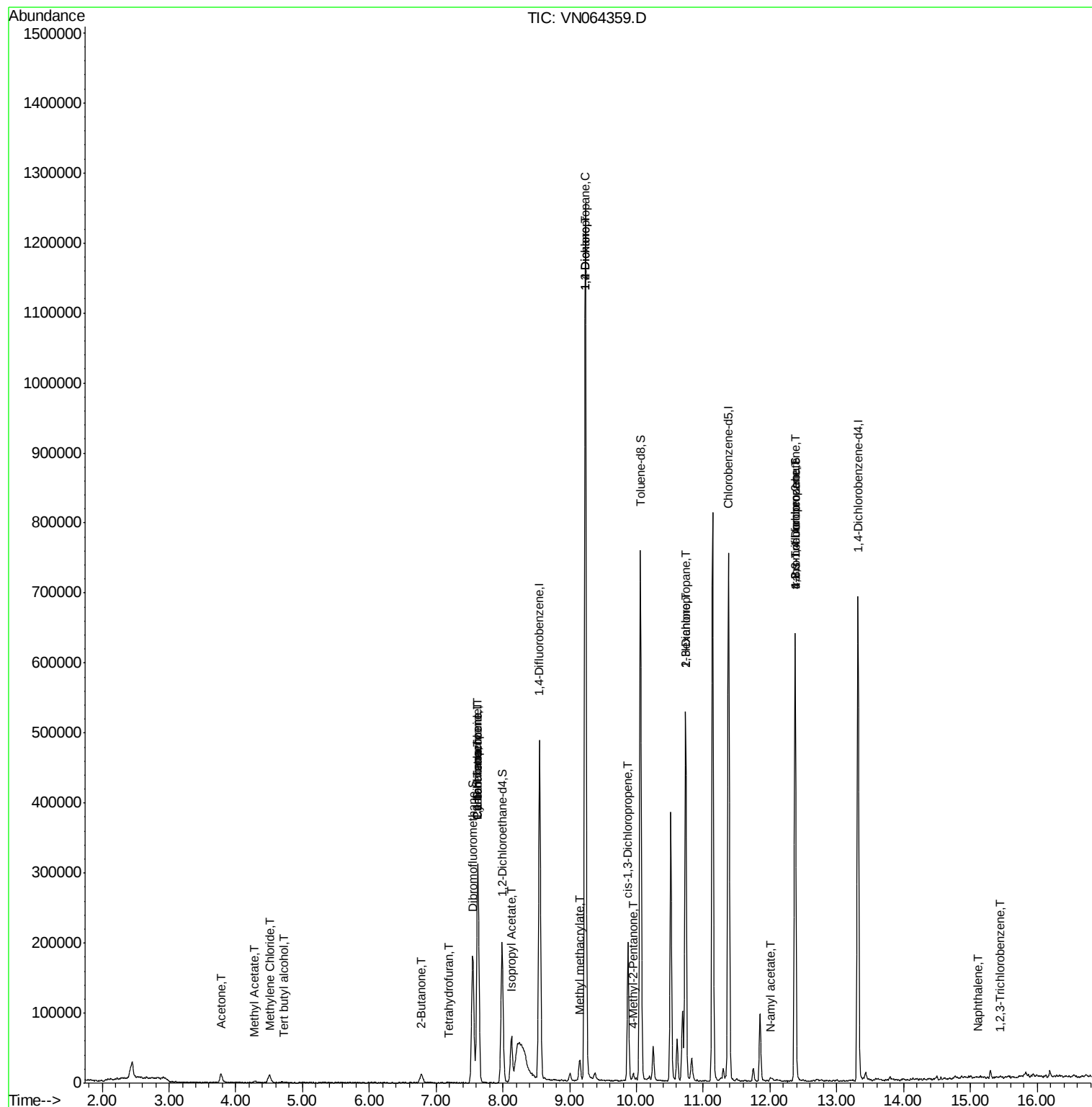
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	270	0.488	ug/l #	70
16) Acetone	3.77	43	22816	10.506	ug/l	99
18) Methyl Acetate	4.28	43	2288	0.798	ug/l #	85
20) Methylene Chloride	4.50	84	7751	2.865	ug/l #	90
25) 2-Butanone	6.78	43	1674	0.874	ug/l	97
29) Tetrahydrofuran	7.18	42	612	0.492	ug/l #	48
31) Cyclohexane	7.62	56	3540	0.800	ug/l #	30
36) 1,1-Dichloropropene	7.62	75	19229	4.668	ug/l #	49
38) Carbon Tetrachloride	7.63	117	24724	5.177	ug/l #	18
43) Isopropyl Acetate	8.13	43	84947	11.943	ug/l #	87
45) 1,2-Dichloropropane	9.23	63	1679	0.547	ug/l #	44
48) Methyl methacrylate	9.14	41	4429	1.207	ug/l #	15
49) 1,4-Dioxane	9.24	88	154	2.847	ug/l #	1
51) 4-Methyl-2-Pentanone	9.96	43	6541	1.582	ug/l	92
54) cis-1,3-Dichloropropene	9.87	75	32767	6.324	ug/l #	62
57) 1,3-Dichloropropane	10.74	76	5752	1.181	ug/l #	42
59) 2-Hexanone	10.74	43	84453	27.735	ug/l #	52
74) N-amyl acetate	12.00	43	4168	0.720	ug/l #	49
76) 1,2,3-Trichloropropane	12.38	75	122356	29.084	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	122356	83.776	ug/l #	8
95) Naphthalene	15.11	128	264	2.418	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.44	180	70	2.204	ug/l #	14

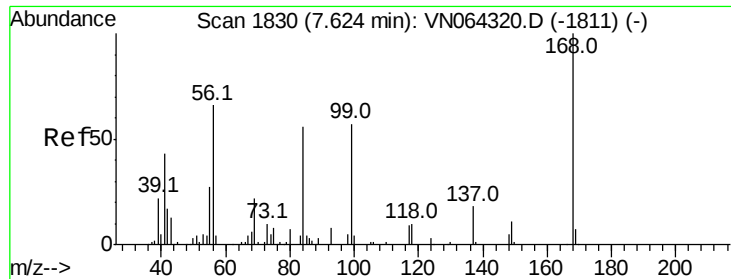
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Oct 27 12:23:17 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.00 min

Lab File: VN064359.D

Acq: 28 Oct 2020 17:56

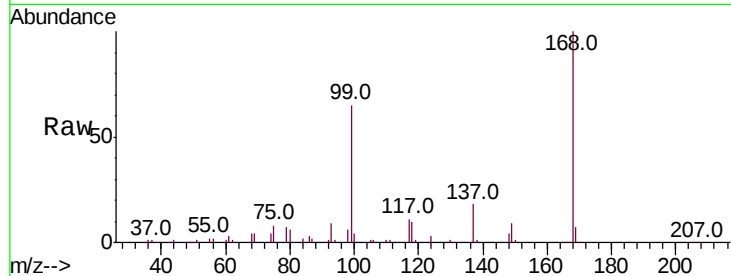
Instrument :
MSVOA_N
ClientSampled :
VNJ-206

Tot Ion:168 Resp: 237385

Ion Ratio Lower Upper

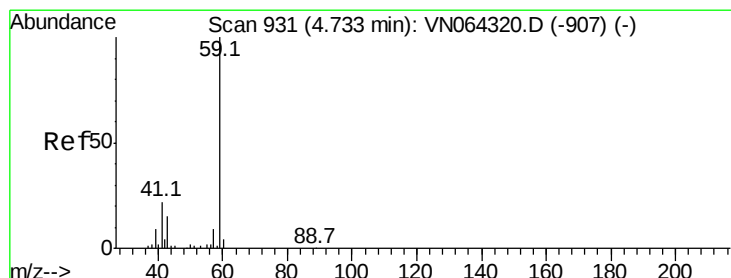
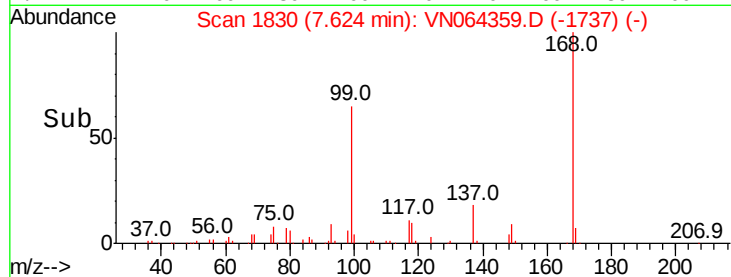
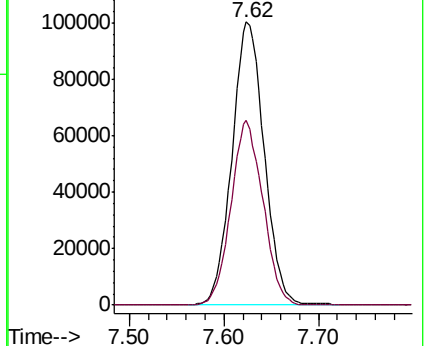
168 100

99 65.2 52.7 79.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#11

Tert butyl alcohol

Concen: 0.488 ug/l

RT: 4.73 min Scan# 929

Delta R.T. -0.01 min

Lab File: VN064359.D

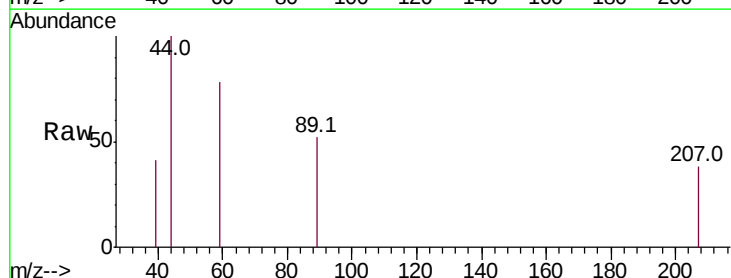
Acq: 28 Oct 2020 17:56

Tgt Ion: 59 Resp: 270

Ion Ratio Lower Upper

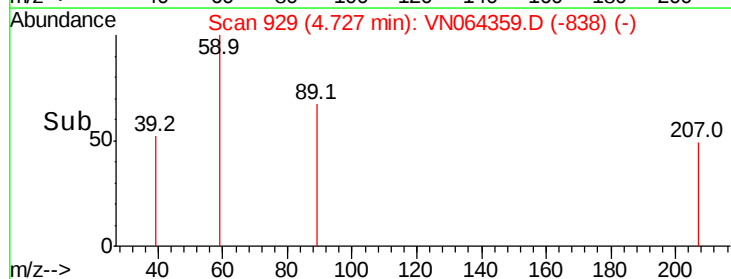
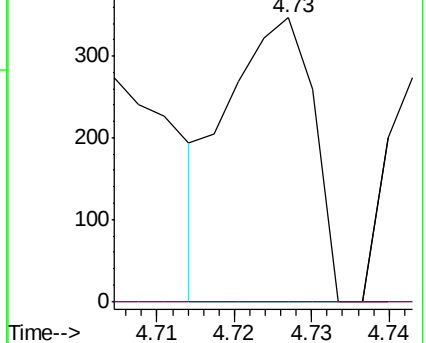
59 100

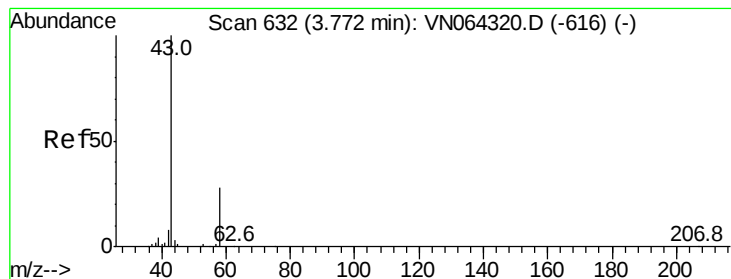
57 0.0 9.4 14.0#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO





#16

Acetone

Concen: 10.506 ug/l

RT: 3.77 min Scan# 632

Delta R.T. 0.00 min

Lab File: VN064359.D

Acq: 28 Oct 2020 17:56

Instrument :

MSVOA_N

ClientSampleId :

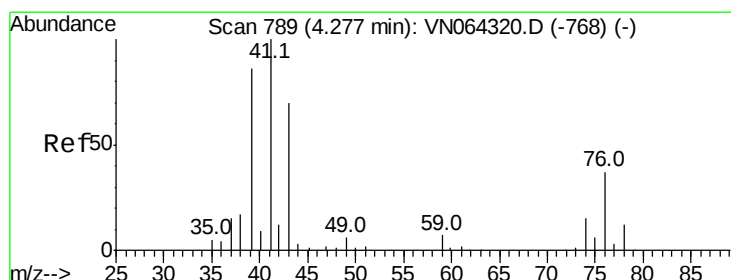
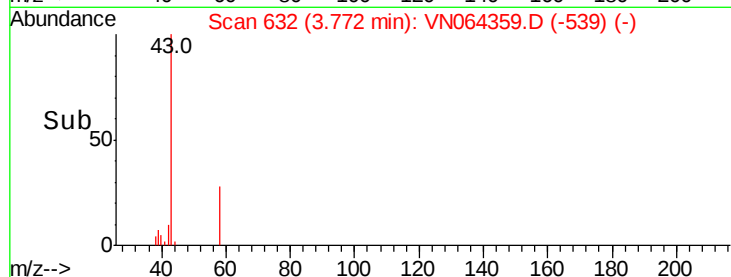
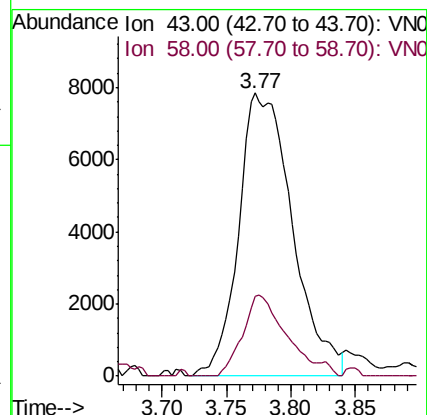
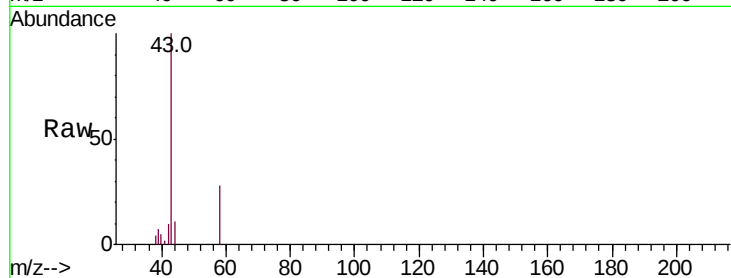
VNJ-206

Tot Ion: 43 Resp: 22816

Ion Ratio Lower Upper

43 100

58 28.1 22.1 33.1



#18

Methyl Acetate

Concen: 0.798 ug/l

RT: 4.28 min Scan# 789

Delta R.T. -0.00 min

Lab File: VN064359.D

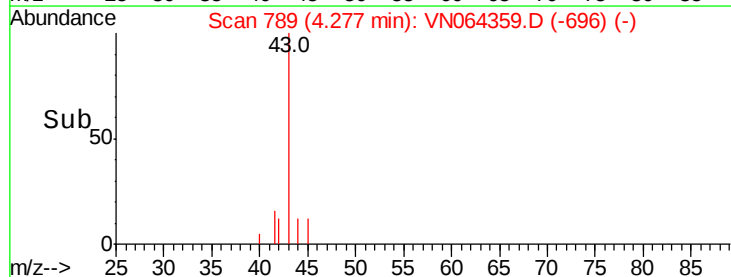
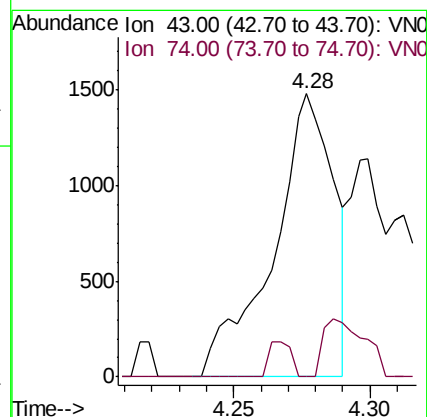
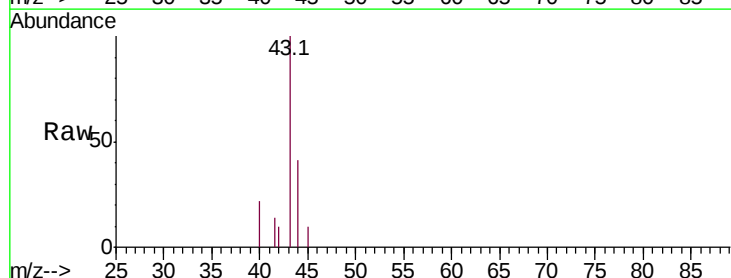
Acq: 28 Oct 2020 17:56

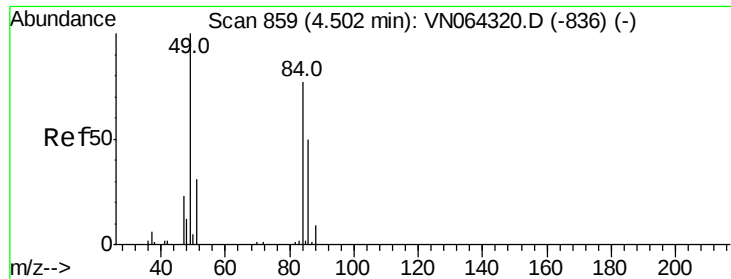
Tgt Ion: 43 Resp: 2288

Ion Ratio Lower Upper

43 100

74 13.9 16.7 25.1#

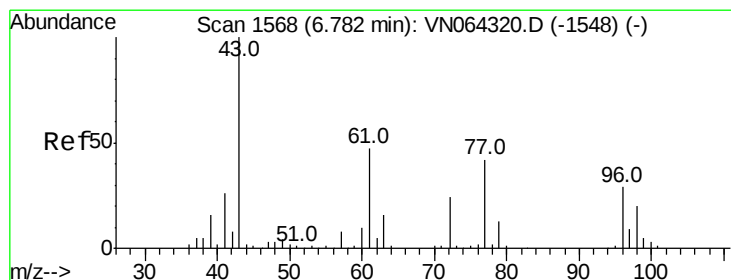
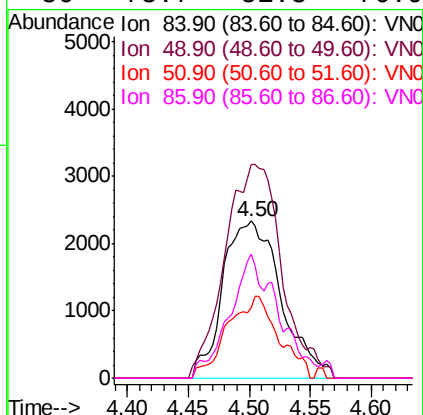
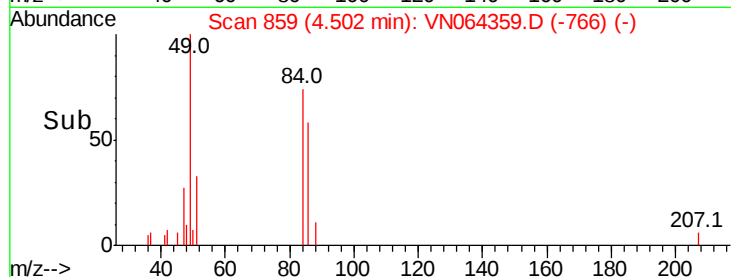
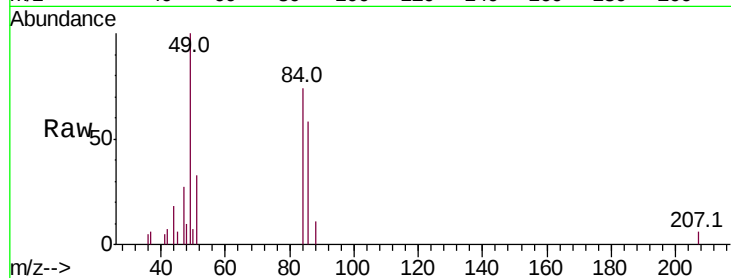




#20
Methylene Chloride
Concen: 2.865 ug/l
RT: 4.50 min Scan# 859
Delta R.T. -0.00 min
Lab File: VN064359.D
Acq: 28 Oct 2020 17:56

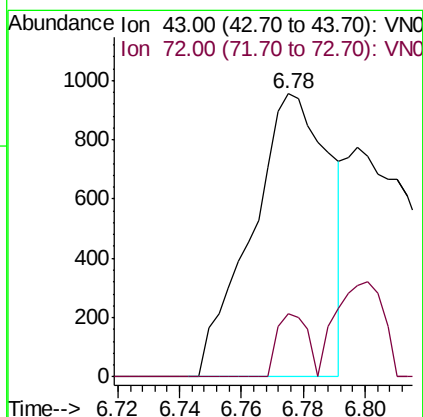
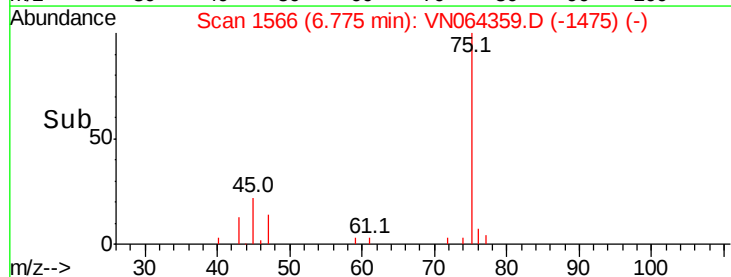
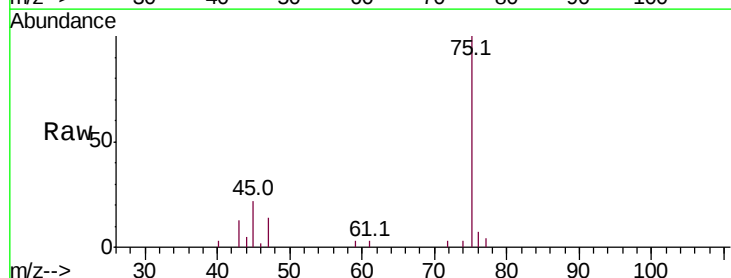
Instrument :
MSVOA_N
ClientSampleId :
VNJ-206

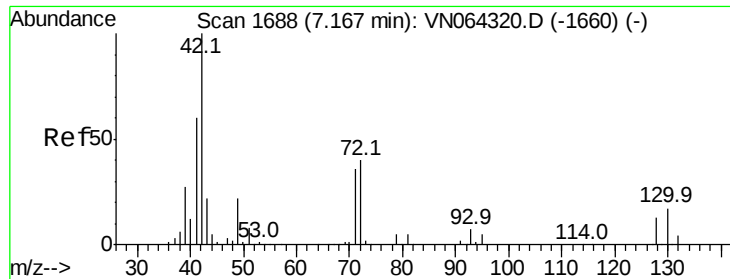
Tot Ion: 84 Resp: 7751
Ion Ratio Lower Upper
84 100
49 135.7 103.6 155.4
51 45.1 31.8 47.8
86 78.7 51.3 76.9#



#25
2-Butanone
Concen: 0.874 ug/l
RT: 6.78 min Scan# 1566
Delta R.T. -0.01 min
Lab File: VN064359.D
Acq: 28 Oct 2020 17:56

Tgt Ion: 43 Resp: 1674
Ion Ratio Lower Upper
43 100
72 22.1 18.8 28.2





#29

Tetrahydrofuran

Concen: 0.492 ug/l

RT: 7.18 min Scan# 1692

Delta R.T. 0.01 min

Lab File: VN064359.D

Acq: 28 Oct 2020 17:56

Instrument :

MSVOA_N

ClientSampleId :

VNJ-206

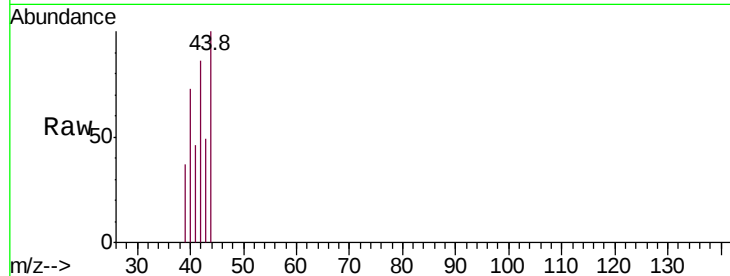
Tot Ion: 42 Resp: 612

Ion Ratio Lower Upper

42 100

72 12.7 31.6 47.4#

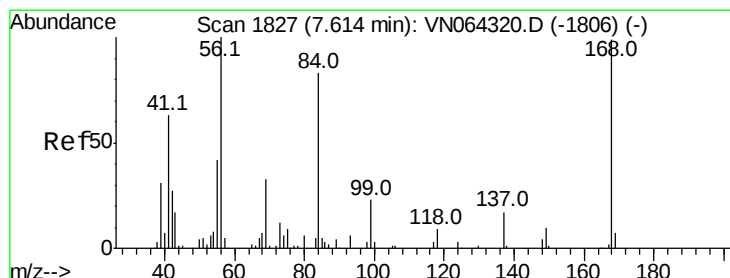
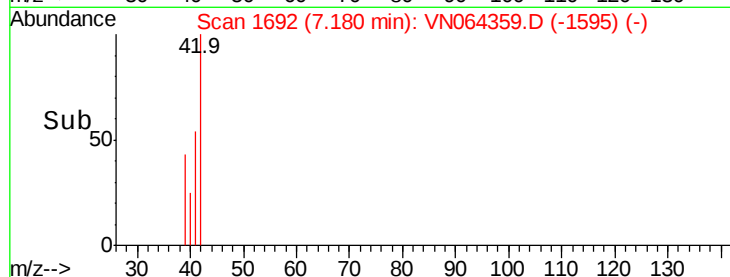
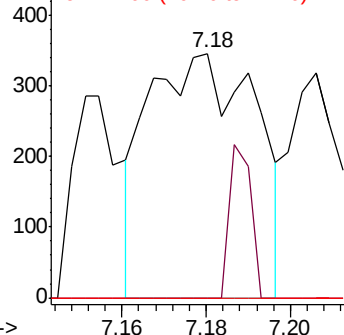
71 0.0 29.4 44.0#



Abundance Ion 42.00 (41.70 to 42.70): VNO

Ion 72.00 (71.70 to 72.70): VNO

Ion 71.00 (70.70 to 71.70): VNO



#31

Cyclohexane

Concen: 0.800 ug/l

RT: 7.62 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN064359.D

Acq: 28 Oct 2020 17:56

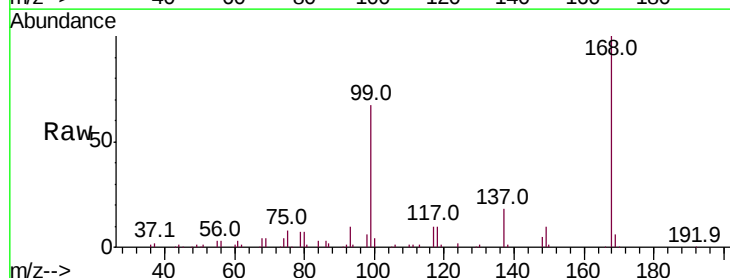
Tgt Ion: 56 Resp: 3540

Ion Ratio Lower Upper

56 100

69 140.7 25.8 38.8#

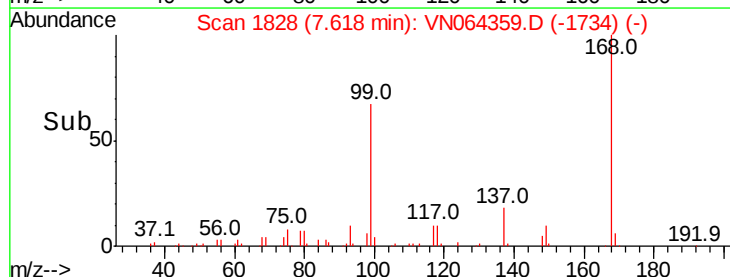
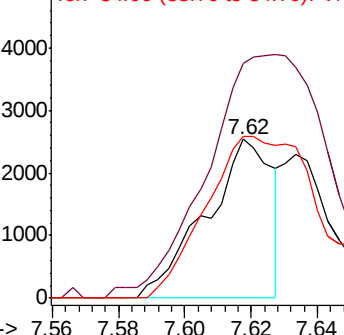
84 101.9 66.3 99.5#

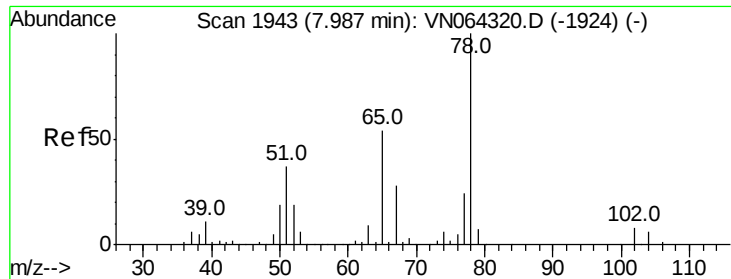


Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 84.00 (83.70 to 84.70): VNO

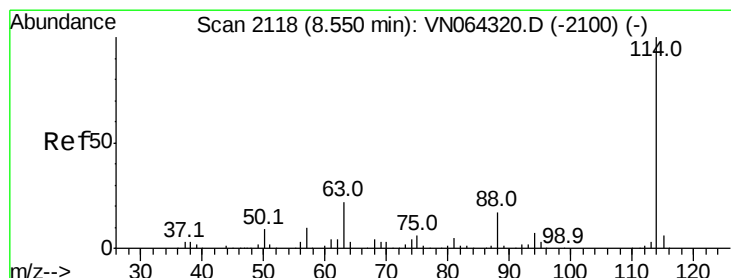
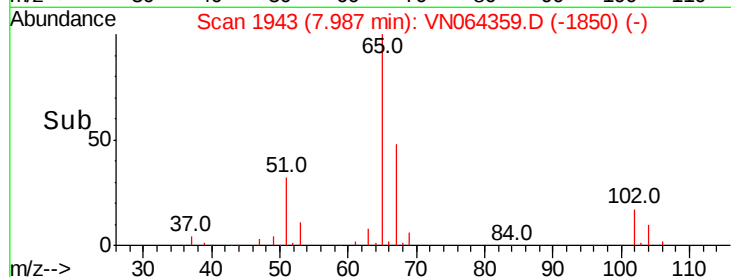
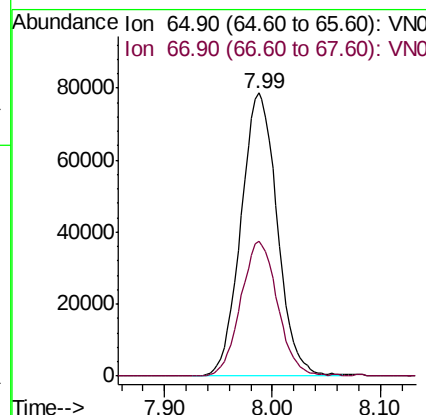
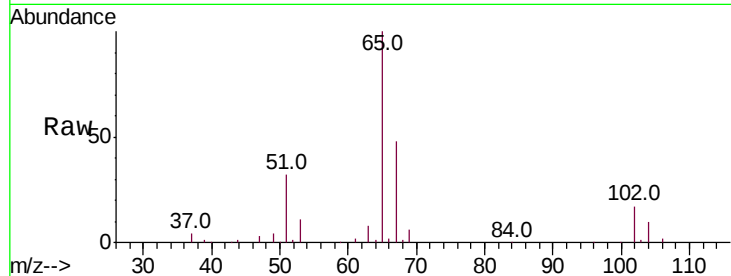




#33
 1,2-Dichloroethane-d4
 Concen: 48.297 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. -0.00 min
 Lab File: VN064359.D
 Acq: 28 Oct 2020 17:56

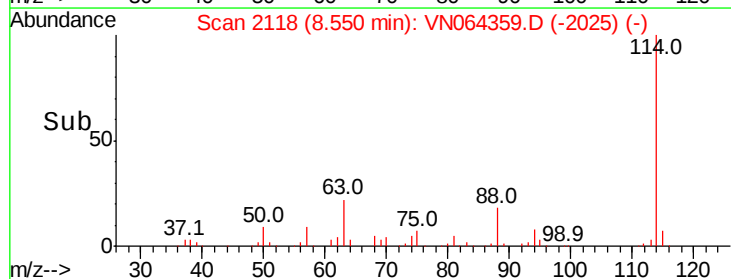
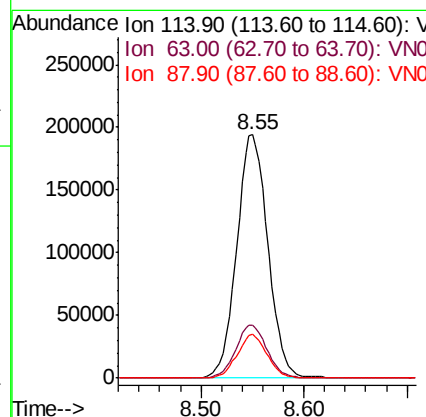
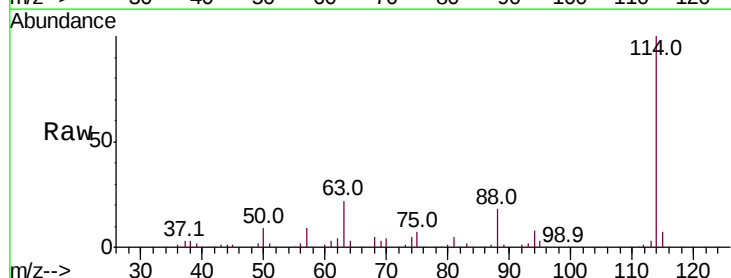
Instrument :
 MSVOA_N
 ClientSampleId :
 VNJ-206

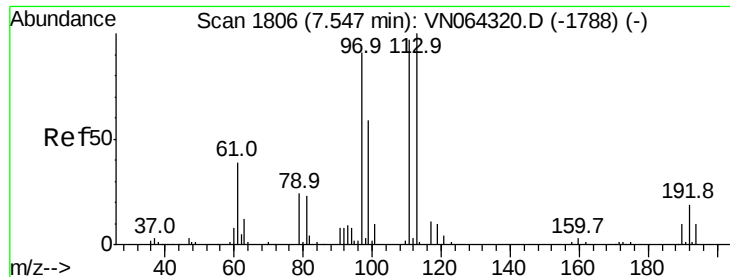
Tot Ion: 65 Resp: 184241
 Ion Ratio Lower Upper
 65 100
 67 48.3 0.0 99.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN064359.D
 Acq: 28 Oct 2020 17:56

Tgt Ion: 114 Resp: 408159
 Ion Ratio Lower Upper
 114 100
 63 21.8 0.0 44.6
 88 18.1 0.0 33.4

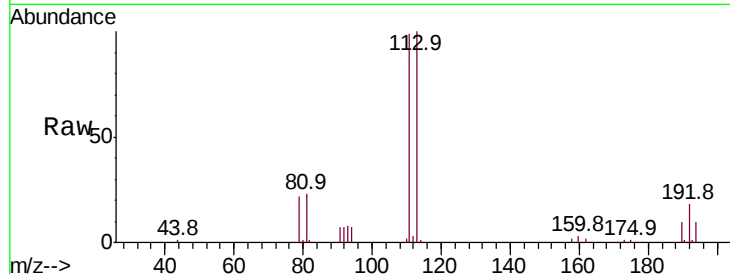




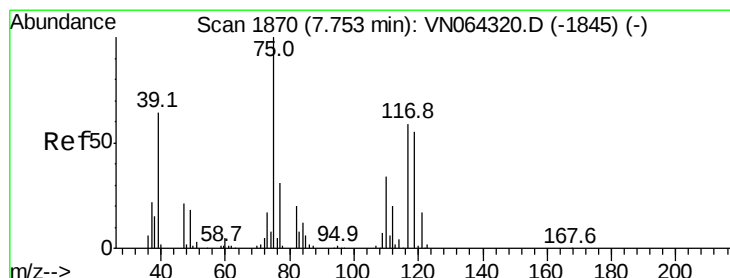
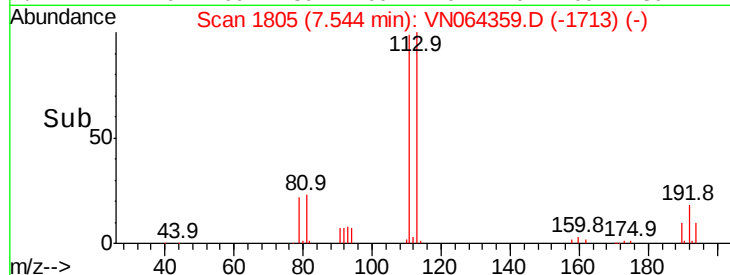
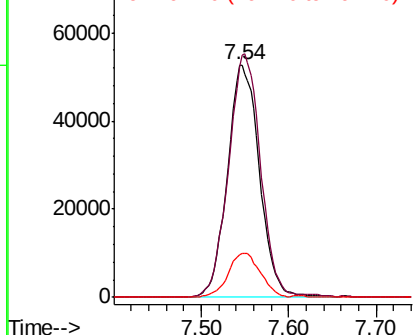
#35
 Dibromofluoromethane
 Concen: 49.157 ug/l
 RT: 7.54 min Scan# 1805
 Delta R.T. -0.00 min
 Lab File: VN064359.D
 Acq: 28 Oct 2020 17:56

Instrument :
 MSVOA_N
 ClientSampleId :
 VNJ-206

Tot Ion:113 Resp: 133802
 Ion Ratio Lower Upper
 113 100
 111 104.5 81.5 122.3
 192 19.1 15.0 22.4

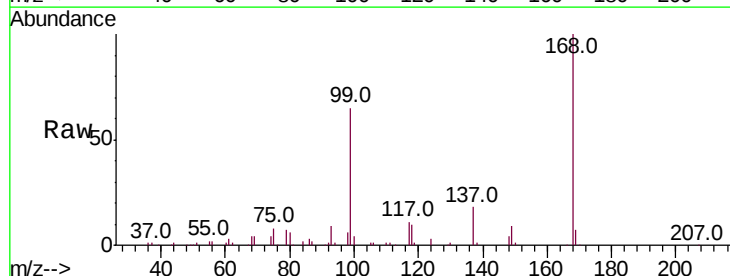


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

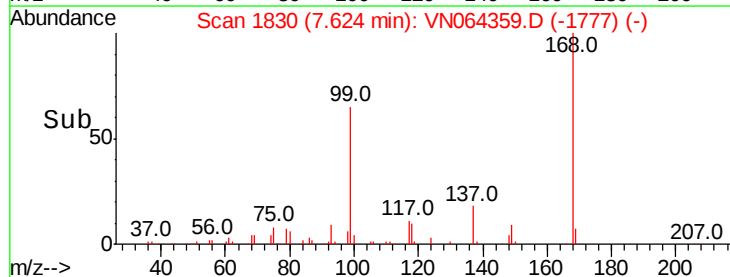
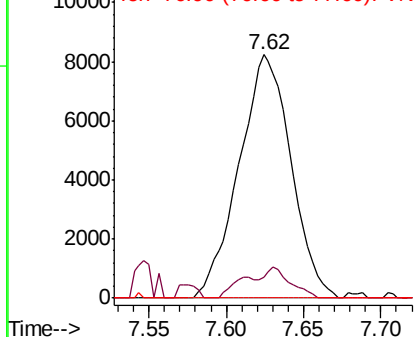


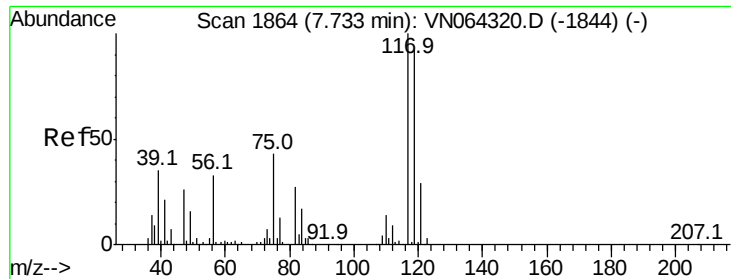
#36
 1,1-Dichloropropene
 Concen: 4.668 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN064359.D
 Acq: 28 Oct 2020 17:56

Tgt Ion: 75 Resp: 19229
 Ion Ratio Lower Upper
 75 100
 110 6.4 16.8 50.3#
 77 0.0 24.2 36.4#



Abundance Ion 74.90 (74.60 to 75.60): VNO
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VNO





#38

Carbon Tetrachloride

Concen: 5.177 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN064359.D

Acq: 28 Oct 2020 17:56

Instrument :

MSVOA_N

ClientSampleId :

VNJ-206

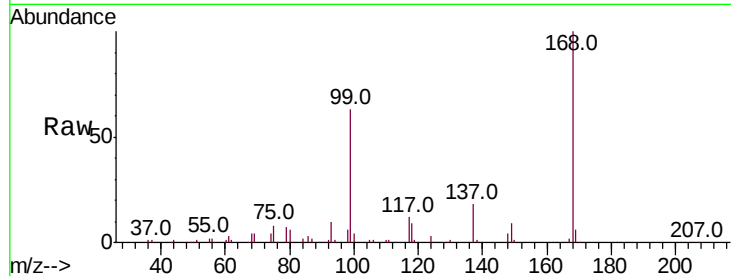
Tot Ion:117 Resp: 24724

Ion Ratio Lower Upper

117 100

119 5.3 73.7 110.5#

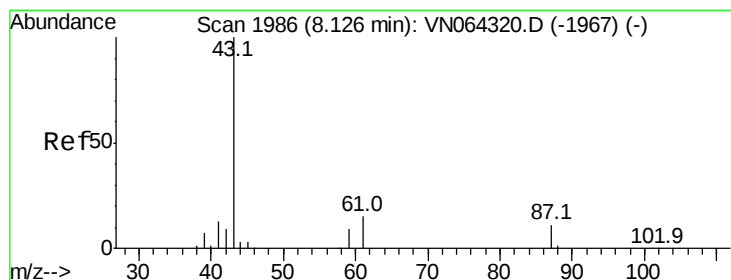
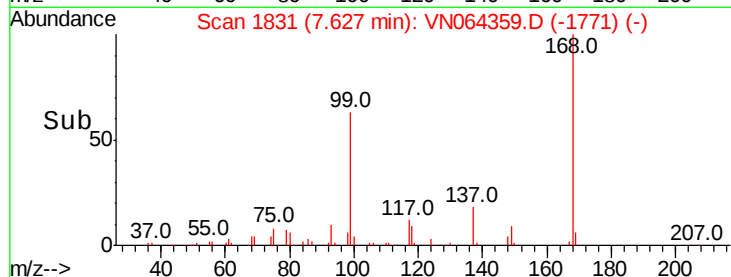
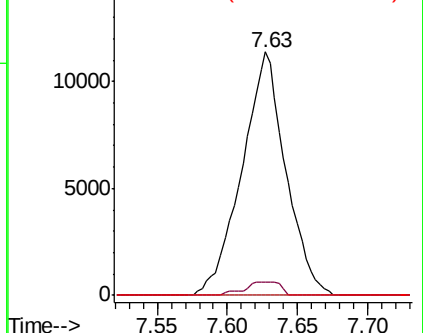
121 0.0 22.8 34.2#



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: 11.943 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VN064359.D

Acq: 28 Oct 2020 17:56

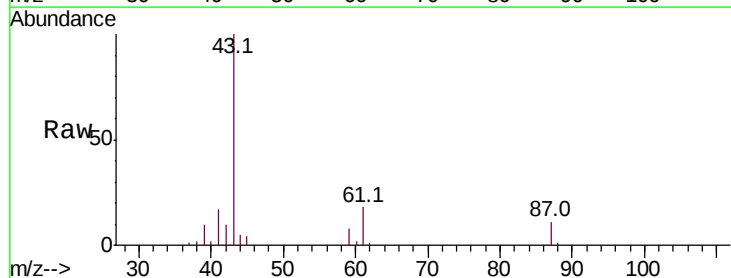
Tgt Ion: 43 Resp: 84947

Ion Ratio Lower Upper

43 100

61 18.3 19.1 28.7#

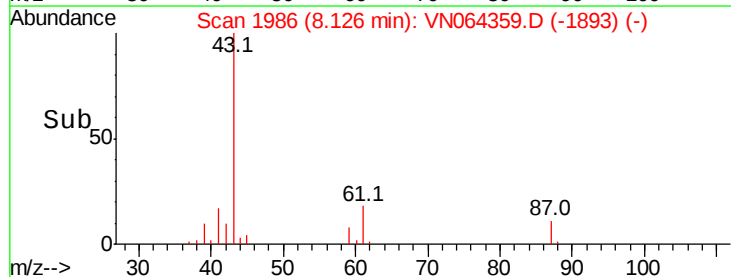
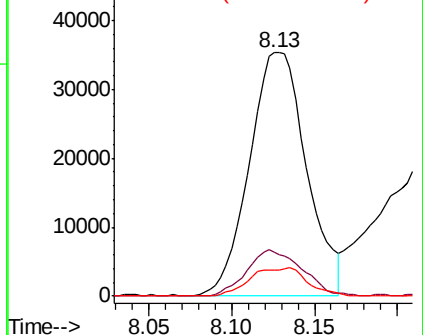
87 5.6 9.3 13.9#

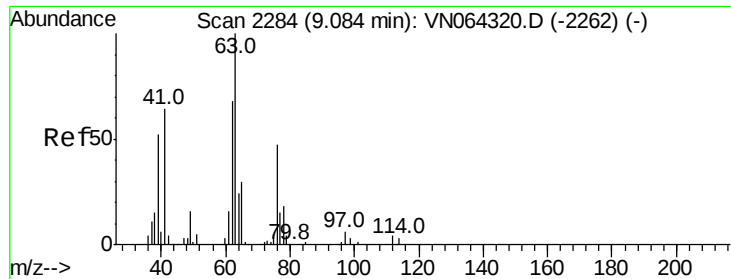


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.547 ug/l

RT: 9.23 min Scan# 2330

Delta R.T. 0.15 min

Lab File: VN064359.D

Acq: 28 Oct 2020 17:56

Instrument :

MSVOA_N

ClientSampled :

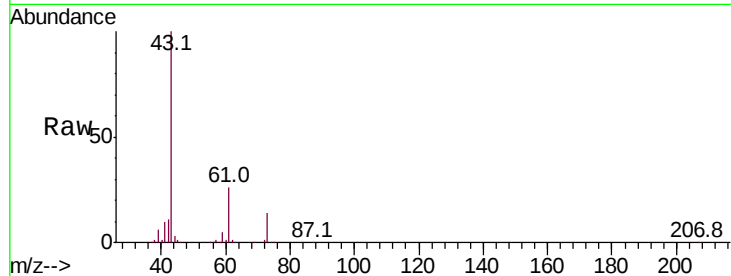
VNJ-206

Tot Ion: 63 Resp: 1679

Ion Ratio Lower Upper

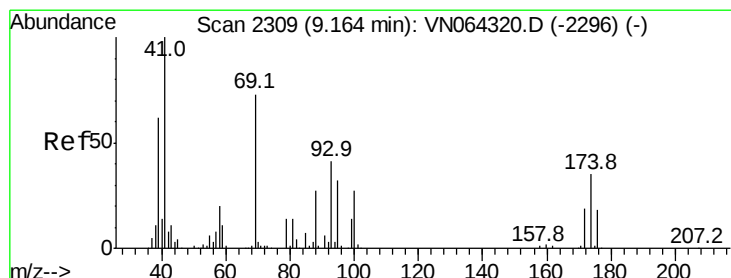
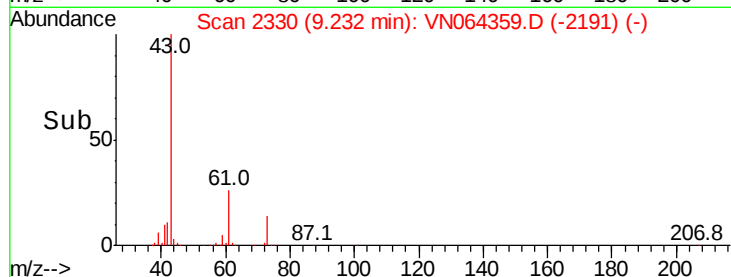
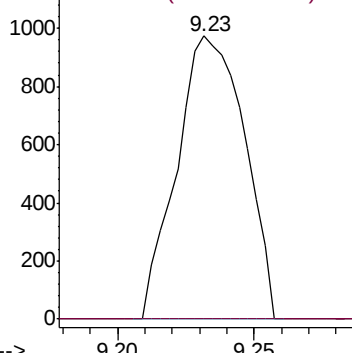
63 100

65 0.0 24.3 36.5#



Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO



#48

Methyl methacrylate

Concen: 1.207 ug/l

RT: 9.14 min Scan# 2302

Delta R.T. -0.02 min

Lab File: VN064359.D

Acq: 28 Oct 2020 17:56

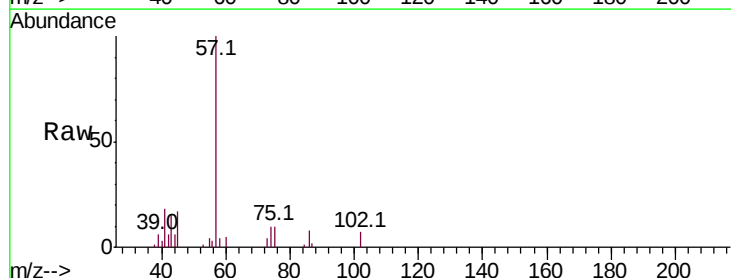
Tgt Ion: 41 Resp: 4429

Ion Ratio Lower Upper

41 100

69 0.0 59.1 88.7#

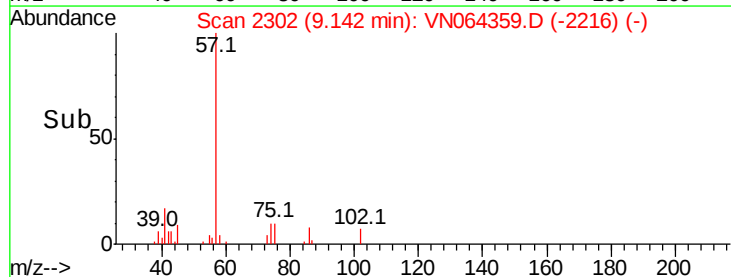
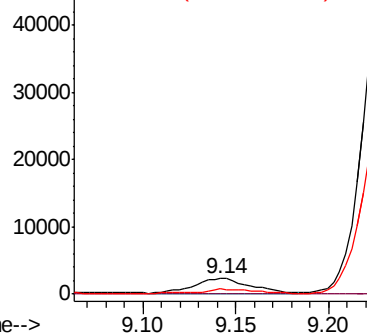
39 0.0 51.3 76.9#

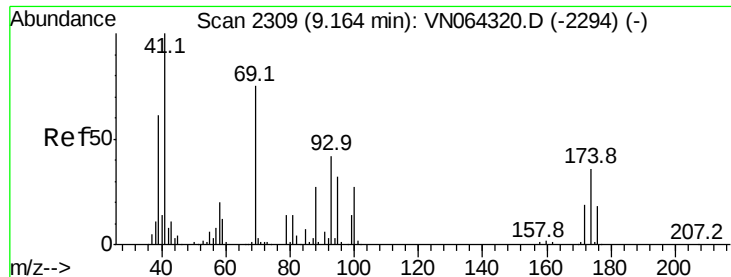


Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 39.00 (38.70 to 39.70): VNO





#49

1,4-Dioxane

Concen: 2.847 ug/l

RT: 9.24 min Scan# 2332

Delta R.T. 0.07 min

Lab File: VN064359.D

Acq: 28 Oct 2020 17:56

Instrument :

MSVOA_N

ClientSampleId :

VNJ-206

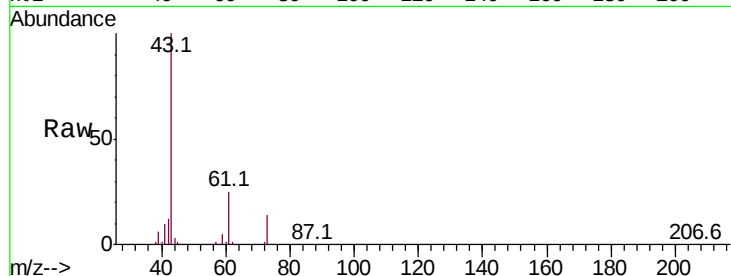
Tot Ion: 88 Resp: 154

Ion Ratio Lower Upper

88 100

43 813327.3 31.8 47.8#

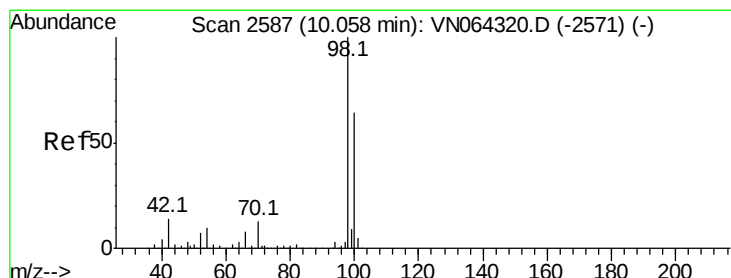
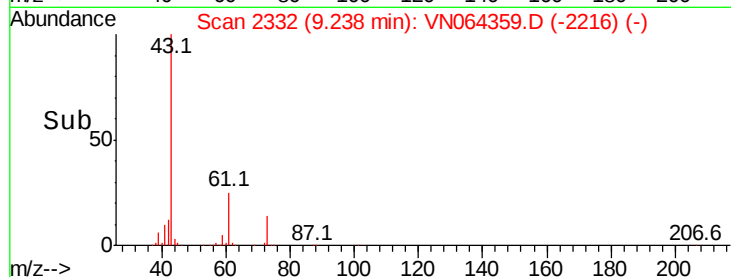
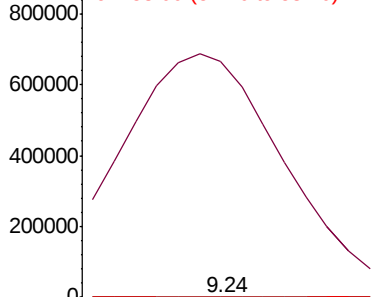
58 2664.9 60.3 90.5#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 50.236 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN064359.D

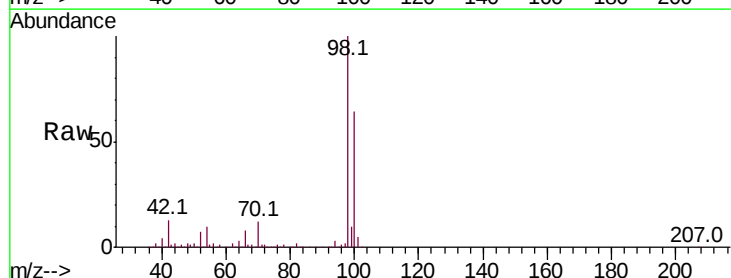
Acq: 28 Oct 2020 17:56

Tgt Ion: 98 Resp: 505775

Ion Ratio Lower Upper

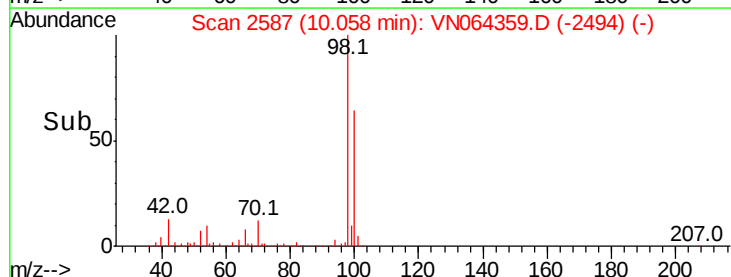
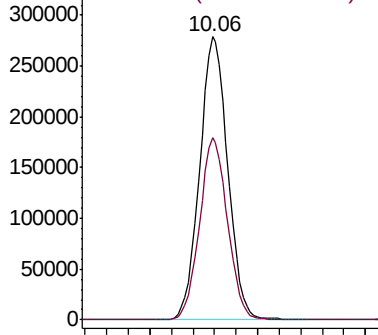
98 100

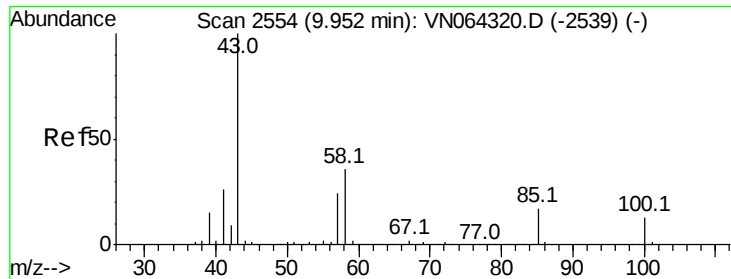
100 64.0 50.9 76.3



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: 1.582 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN064359.D

Acq: 28 Oct 2020 17:56

Instrument :

MSVOA_N

ClientSampled :

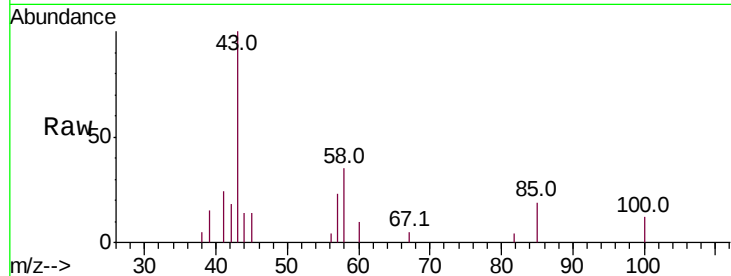
VNJ-206

Tot Ion: 43 Resp: 6541

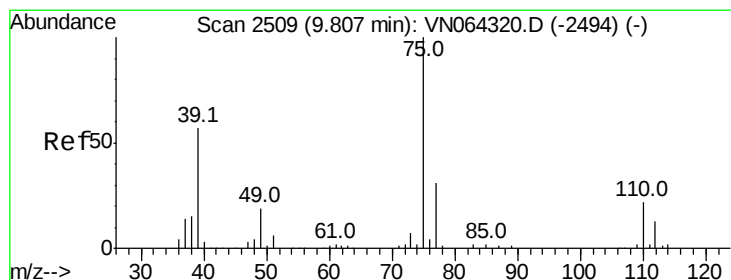
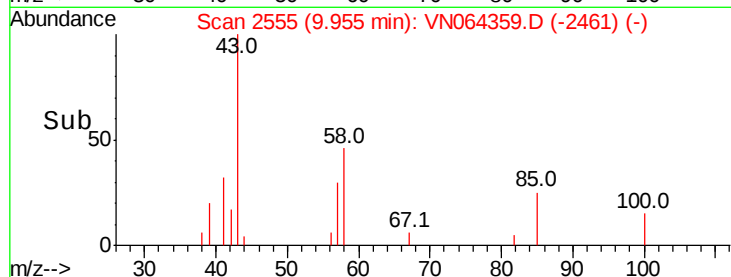
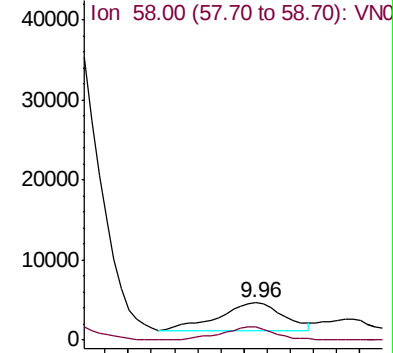
Ion Ratio Lower Upper

43 100

58 40.6 28.6 42.8



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



#54

cis-1,3-Dichloropropene

Concen: 6.324 ug/l

RT: 9.87 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN064359.D

Acq: 28 Oct 2020 17:56

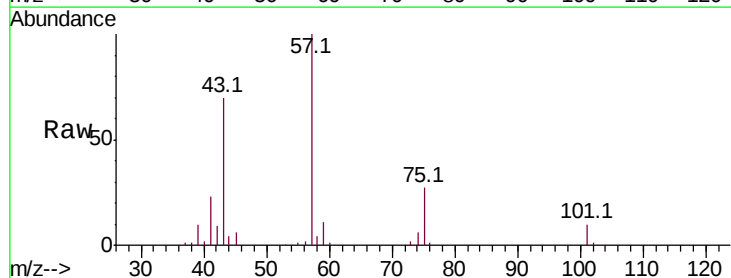
Tgt Ion: 75 Resp: 32767

Ion Ratio Lower Upper

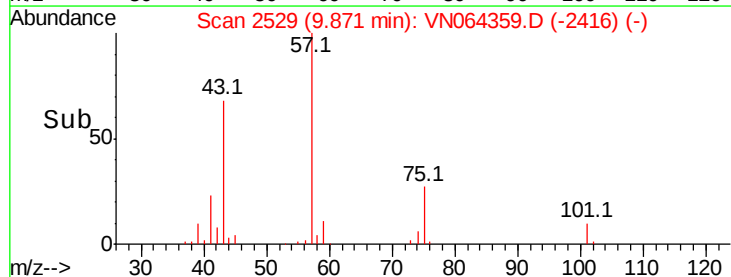
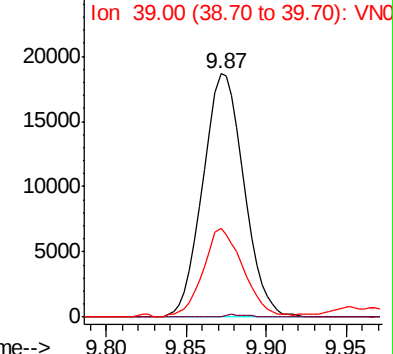
75 100

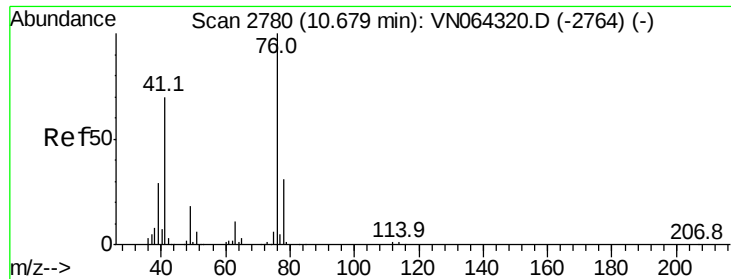
77 0.0 25.0 37.4#

39 36.7 45.5 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 76.90 (76.60 to 77.60): VNO
Ion 39.00 (38.70 to 39.70): VNO





#57

1,3-Dichloropropane

Concen: 1.181 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN064359.D

Acq: 28 Oct 2020 17:56

Instrument :

MSVOA_N

ClientSampleId :

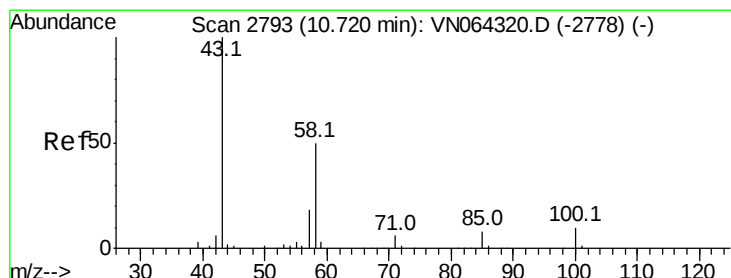
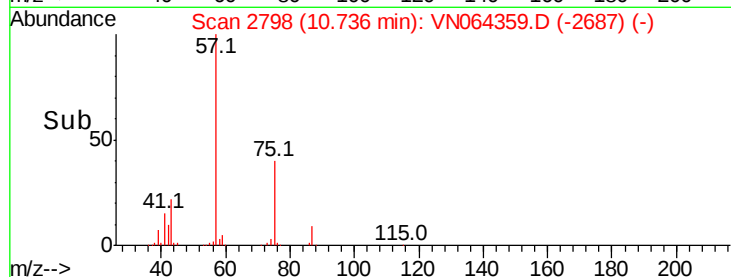
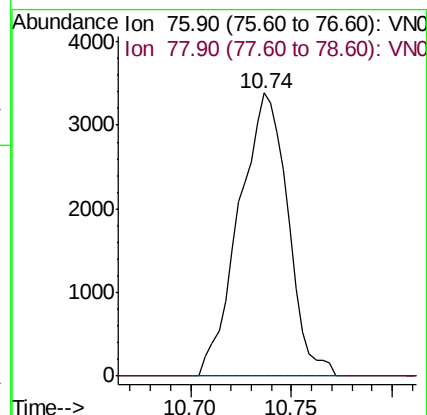
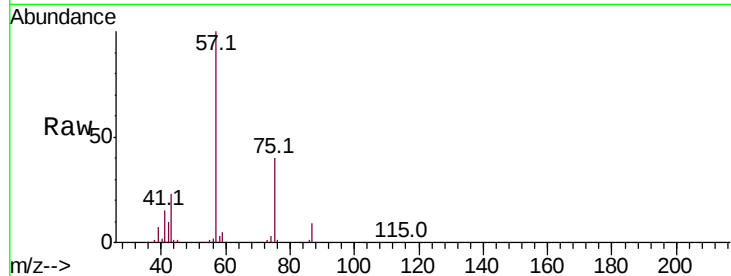
VNJ-206

Tot Ion: 76 Resp: 5752

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#



#59

2-Hexanone

Concen: 27.735 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN064359.D

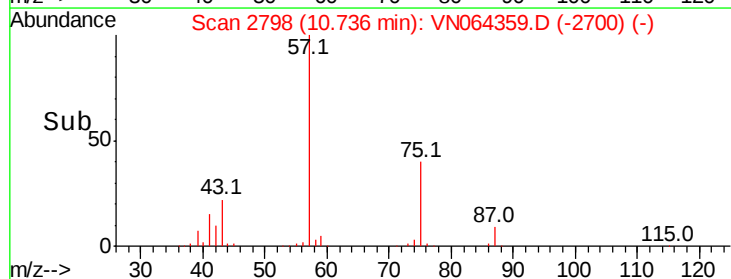
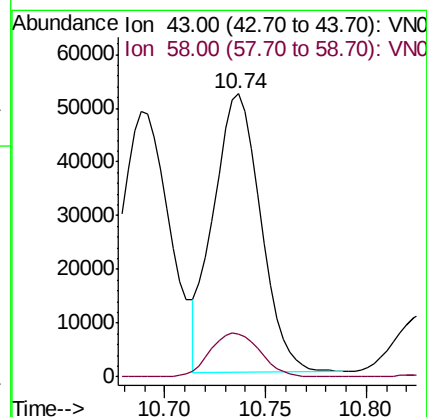
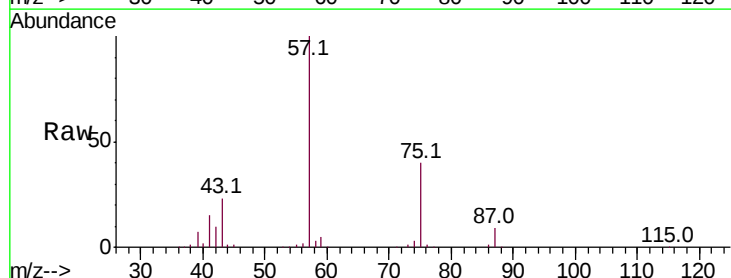
Acq: 28 Oct 2020 17:56

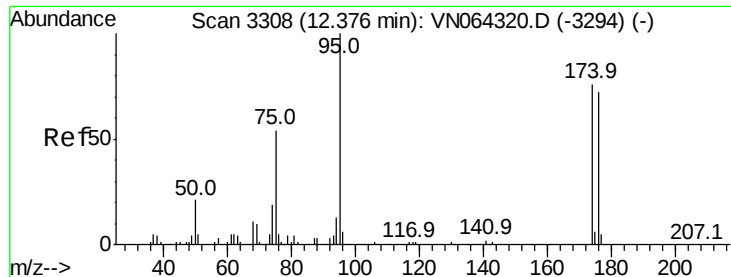
Tgt Ion: 43 Resp: 84453

Ion Ratio Lower Upper

43 100

58 16.6 25.0 75.0#





#62

4-Bromofluorobenzene

Concen: 54.781 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN064359.D

Acq: 28 Oct 2020 17:56

Instrument :

MSVOA_N

ClientSampleId :

VNJ-206

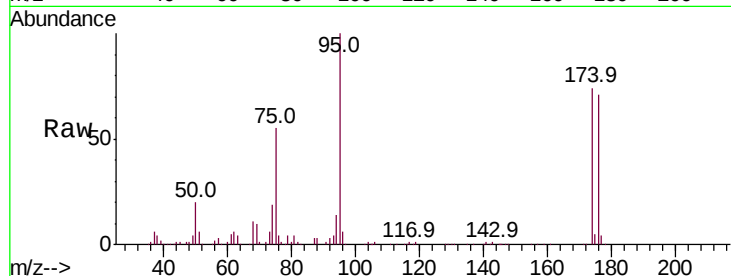
Tot Ion: 95 Resp: 215038

Ion Ratio Lower Upper

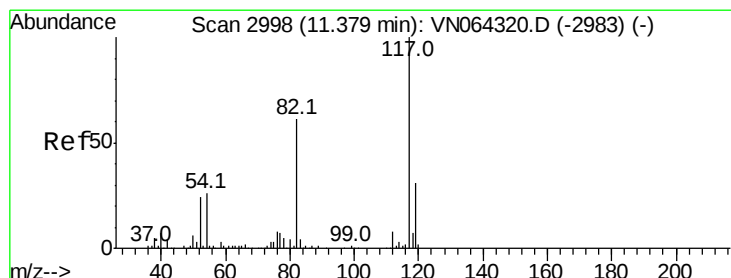
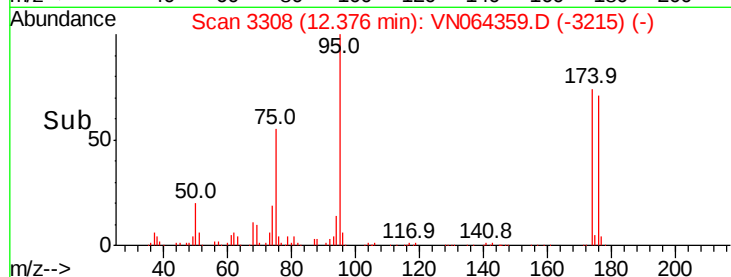
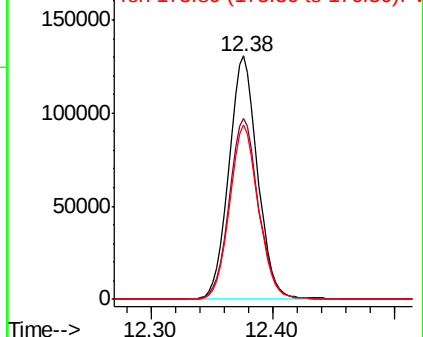
95 100

174 75.8 0.0 147.4

176 71.6 0.0 143.6



Abundance Ion 94.90 (94.60 to 95.60): VNO
Ion 173.80 (173.50 to 174.50): VNO
Ion 175.80 (175.50 to 176.50): VNO



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. -0.00 min

Lab File: VN064359.D

Acq: 28 Oct 2020 17:56

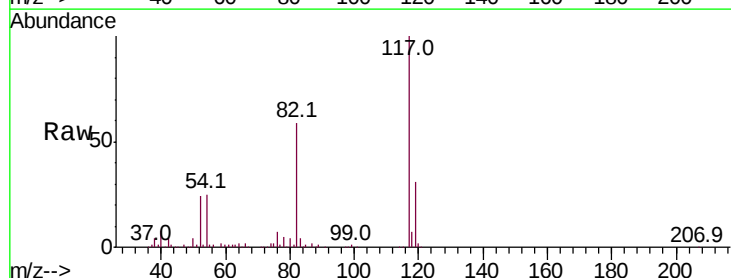
Tgt Ion: 117 Resp: 411843

Ion Ratio Lower Upper

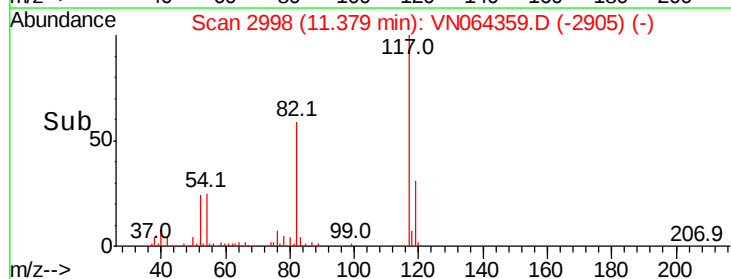
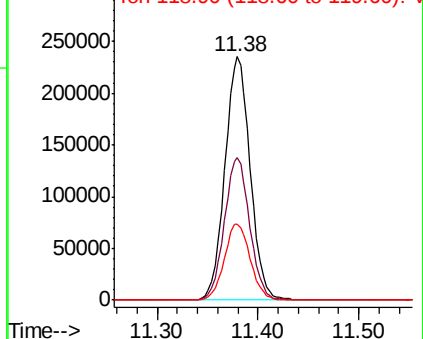
117 100

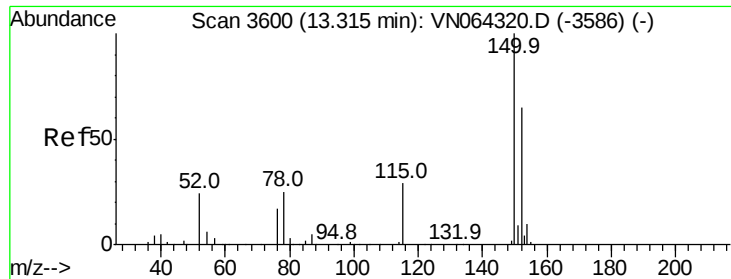
82 58.6 48.8 73.2

119 31.3 25.1 37.7



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3600

Delta R.T. -0.00 min

Lab File: VN064359.D

Acq: 28 Oct 2020 17:56

Instrument :

MSVOA_N

ClientSampleId :

VNJ-206

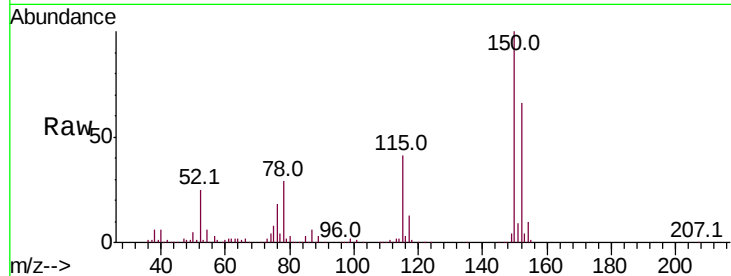
Tot Ion:152 Resp: 175679

Ion Ratio Lower Upper

152 100

115 63.5 31.5 94.5

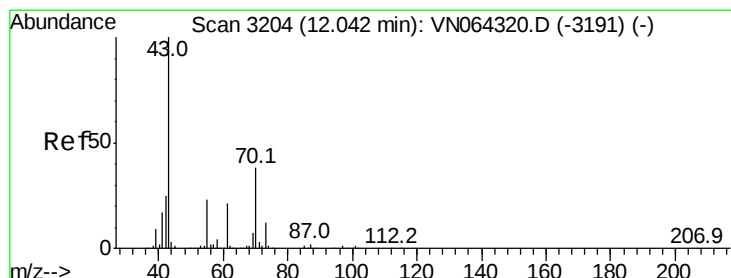
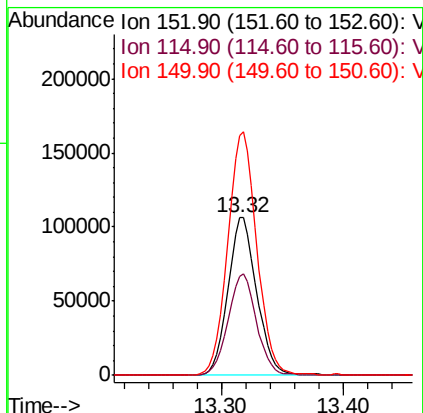
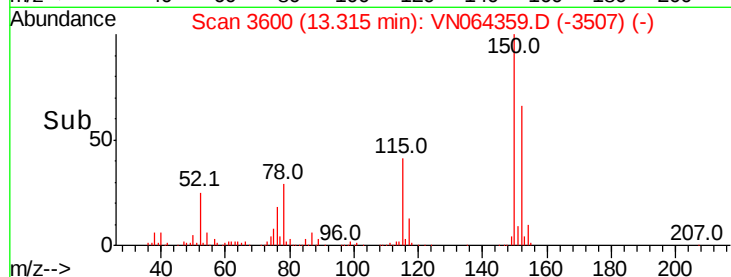
150 155.4 0.0 346.2



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: 0.720 ug/l

RT: 12.00 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN064359.D

Acq: 28 Oct 2020 17:56

Tgt Ion: 43 Resp: 4168

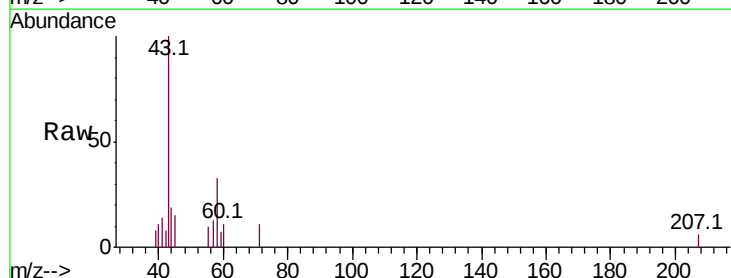
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 5.1 18.2 27.4#

61 0.0 17.6 26.4#

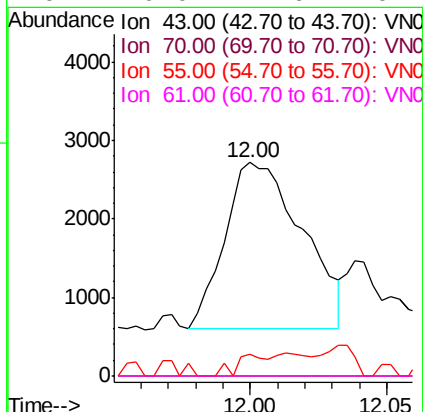
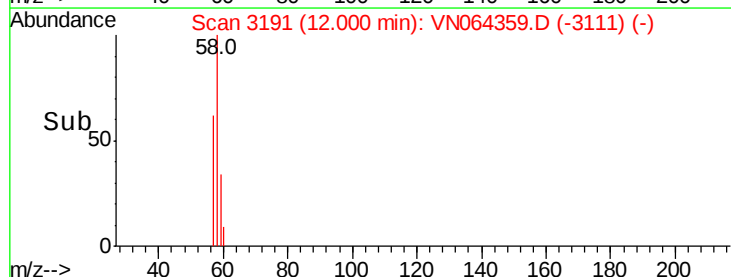


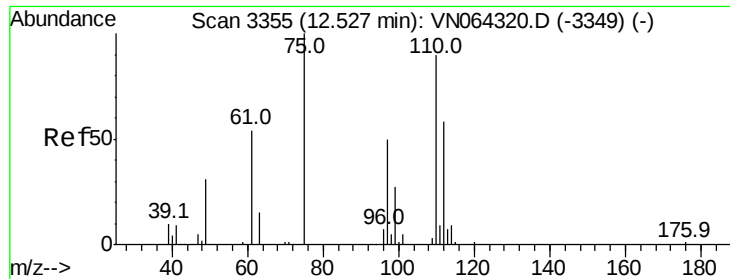
Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 29.084 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064359.D

Acq: 28 Oct 2020 17:56

Instrument :

MSVOA_N

ClientSampled :

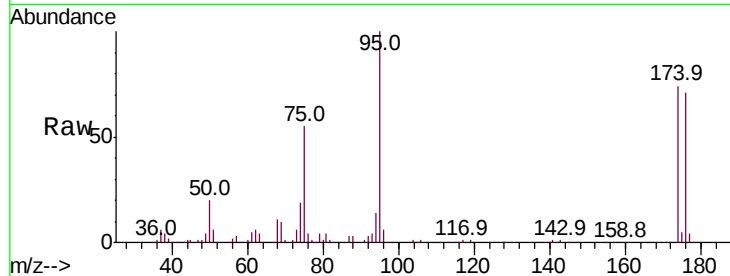
VNJ-206

Tot Ion: 75 Resp: 122356

Ion Ratio Lower Upper

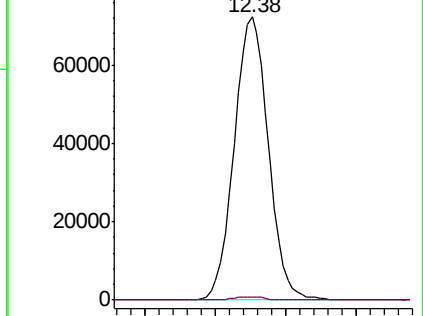
75 100

77 1.0 0.0 0.0#

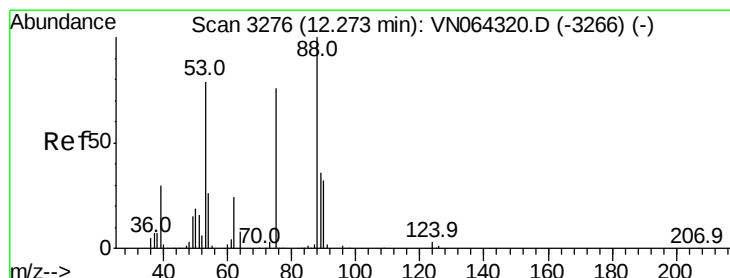
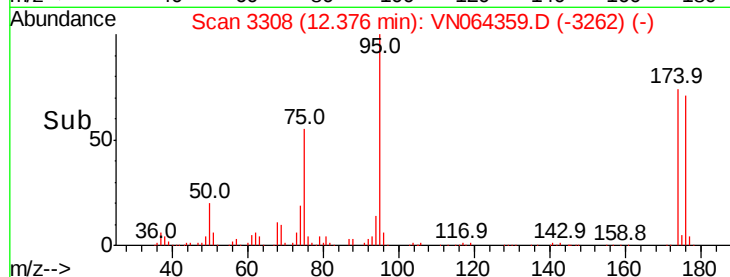


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 83.776 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064359.D

Acq: 28 Oct 2020 17:56

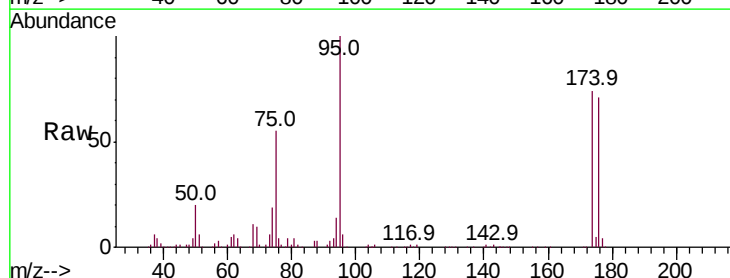
Tgt Ion: 75 Resp: 122356

Ion Ratio Lower Upper

75 100

53 0.0 81.8 122.8#

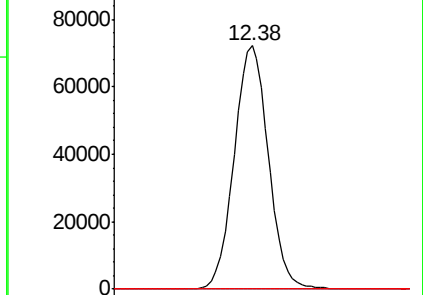
89 0.0 39.9 59.9#



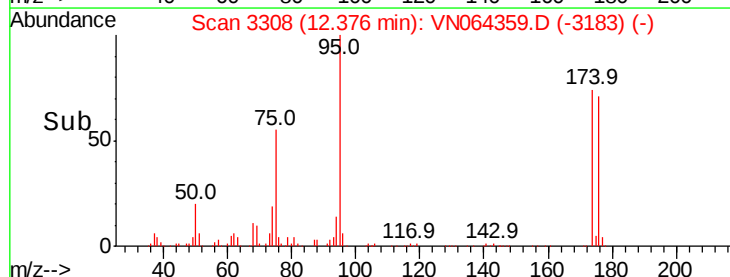
Abundance Ion 74.90 (74.60 to 75.60): VN0

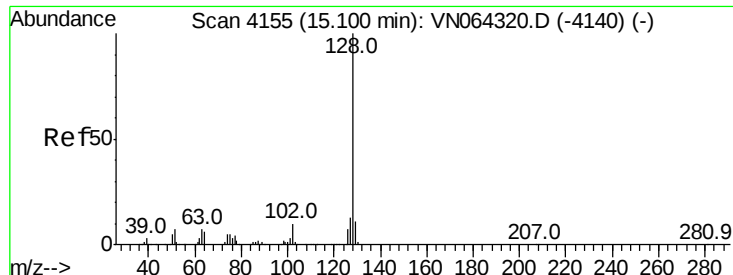
Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



Time-->





#95

Naphthalene

Concen: 2.418 ug/l

RT: 15.11 min Scan# 4158

Delta R.T. 0.01 min

Lab File: VN064359.D

Acq: 28 Oct 2020 17:56

Instrument :

MSVOA_N

ClientSampleId :

VNJ-206

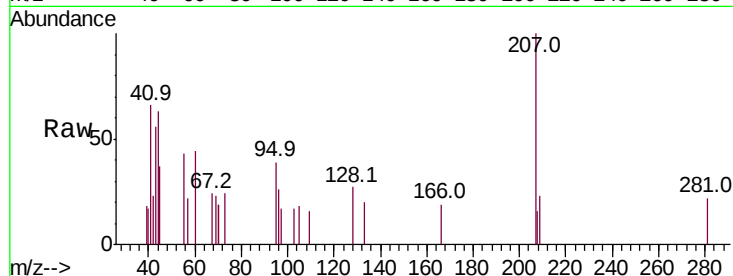
Tot Ion:128 Resp: 264

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

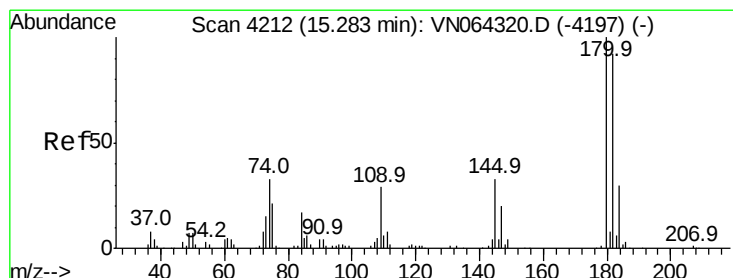
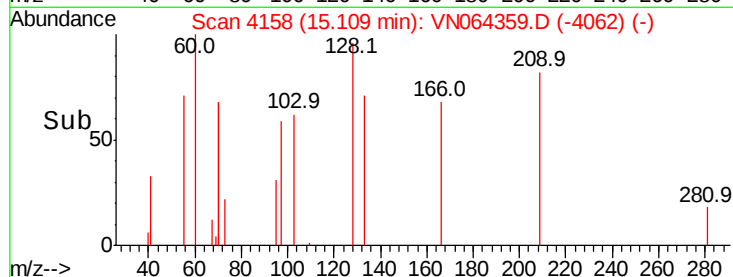
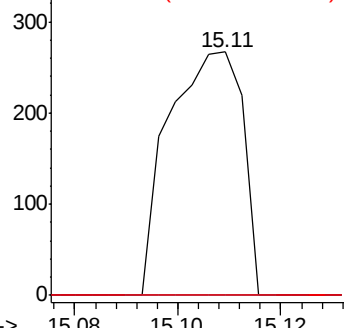
129 0.0 8.6 13.0#



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



#96

1,2,3-Trichlorobenzene

Concen: 2.204 ug/l

RT: 15.44 min Scan# 4260

Delta R.T. 0.16 min

Lab File: VN064359.D

Acq: 28 Oct 2020 17:56

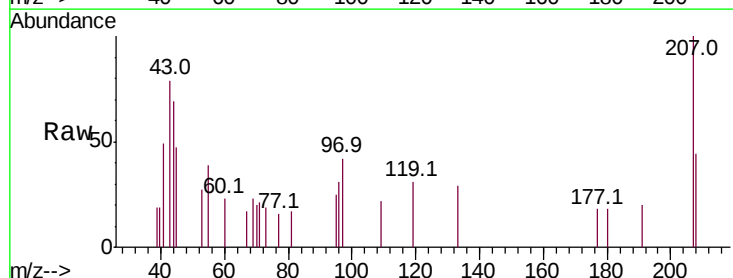
Tgt Ion:180 Resp: 70

Ion Ratio Lower Upper

180 100

182 0.0 46.1 138.3#

145 0.0 16.2 48.5#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

