

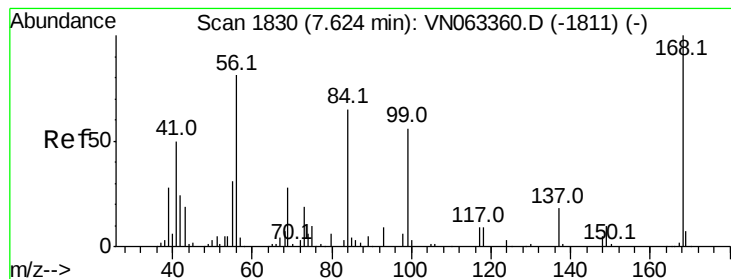
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091620\
 Data File : VN063405.D
 Acq On : 17 Sep 2020 8:15
 Operator : JC/MD
 Sample : L4018-05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 55 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VNJ-229

Quant Time: Sep 17 08:37:11 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 16 13:05:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	233852	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	439291	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	432774	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	183886	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	193247	48.55	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.10%	
35) Dibromofluoromethane	7.55	113	140289	46.13	ug/l	0.00
Spiked Amount 50.000			Recovery	=	92.26%	
50) Toluene-d8	10.06	98	573040	50.11	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.22%	
62) 4-Bromofluorobenzene	12.38	95	225443	53.78	ug/l	0.00
Spiked Amount 50.000			Recovery	=	107.56%	
Target Compounds						
					Qvalue	
16) Acetone	3.78	43	20172	15.767	ug/l	94
18) Methyl Acetate	4.29	43	6168	1.899	ug/l #	73
20) Methylene Chloride	4.50	84	14538	4.485	ug/l #	85
25) 2-Butanone	6.77	43	3067	1.559	ug/l	96
26) 2,2-Dichloropropane	6.77	77	1050	0.205	ug/l #	55
29) Tetrahydrofuran	7.16	42	1164	0.866	ug/l #	51
31) Cyclohexane	7.62	56	6841	1.244	ug/l #	39
36) 1,1-Dichloropropene	7.63	75	23115	4.939	ug/l #	45
38) Carbon Tetrachloride	7.62	117	25823	5.405	ug/l #	17
41) Methacrylonitrile	7.16	41	628	0.304	ug/l #	100
43) Isopropyl Acetate	8.13	43	83761	10.198	ug/l	98
45) 1,2-Dichloropropane	9.24	63	1632	0.449	ug/l #	43
48) Methyl methacrylate	9.15	41	4709	1.167	ug/l #	15
51) 4-Methyl-2-Pentanone	9.96	43	10532	2.291	ug/l	99
54) cis-1,3-Dichloropropene	9.87	75	34455	5.889	ug/l #	62
56) Ethyl methacrylate	10.52	69	1196	0.240	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	5791	1.007	ug/l #	42
59) 2-Hexanone	10.74	43	88589	26.594	ug/l #	56
71) Bromoform	12.37	173	542	0.216	ug/l #	29
74) N-amyl acetate	12.01	43	3674	0.527	ug/l #	52
76) 1,2,3-Trichloropropane	12.38	75	125917	27.665	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	125917	75.848	ug/l #	7
95) Naphthalene	15.11	128	80205	6.827	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063405.D

Acq: 17 Sep 2020 8:15

Instrument :

MSVOA_N

ClientSampleId :

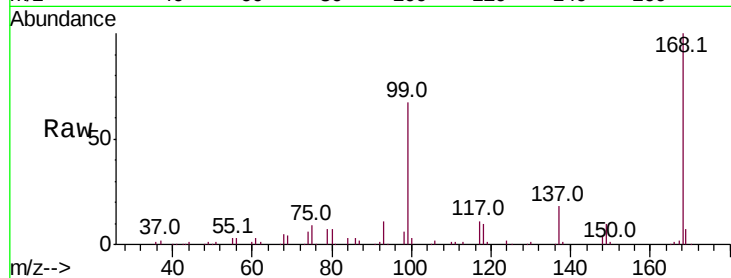
VNJ-229

Tot Ion:168 Resp: 233852

Ion Ratio Lower Upper

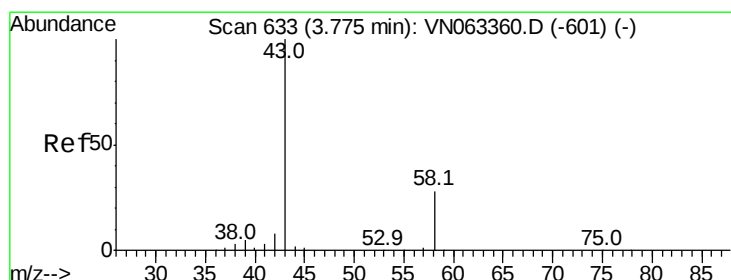
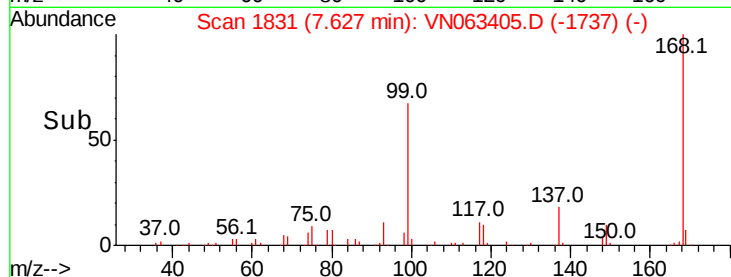
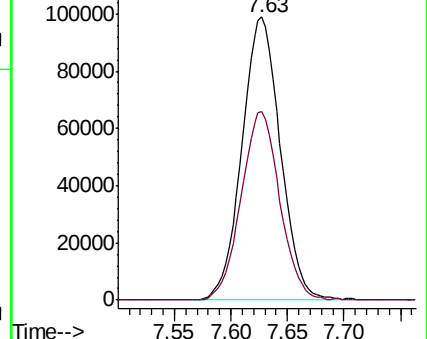
168 100

99 66.5 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#16

Acetone

Concen: 15.767 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN063405.D

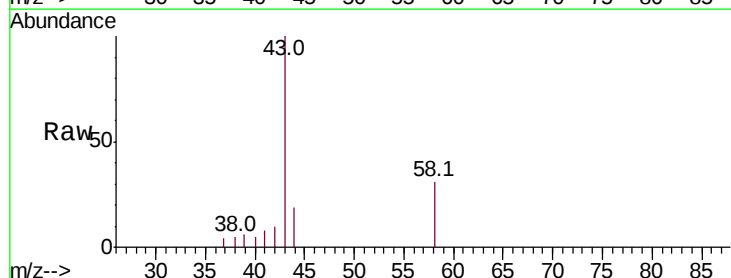
Acq: 17 Sep 2020 8:15

Tgt Ion: 43 Resp: 20172

Ion Ratio Lower Upper

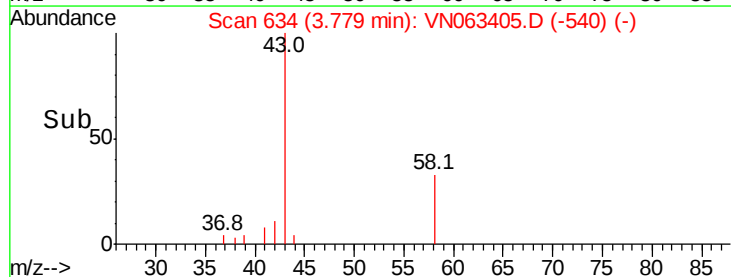
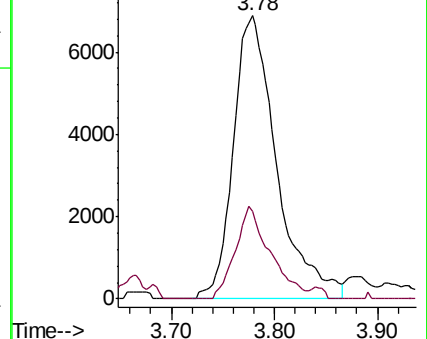
43 100

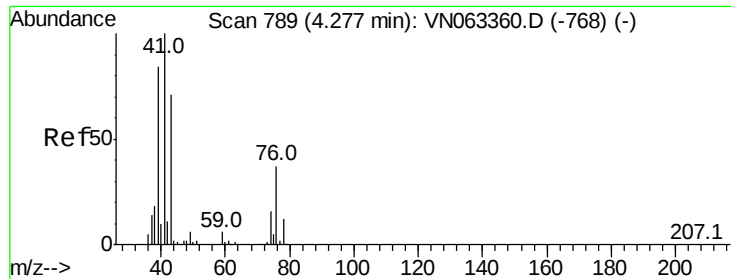
58 31.0 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

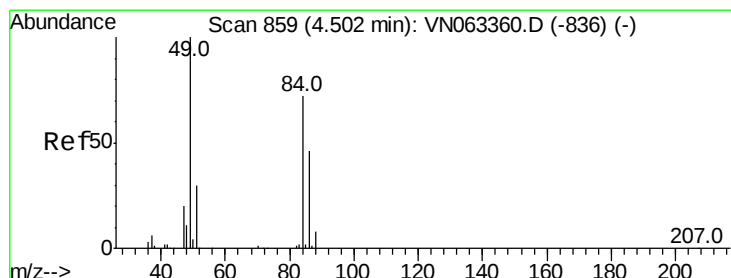
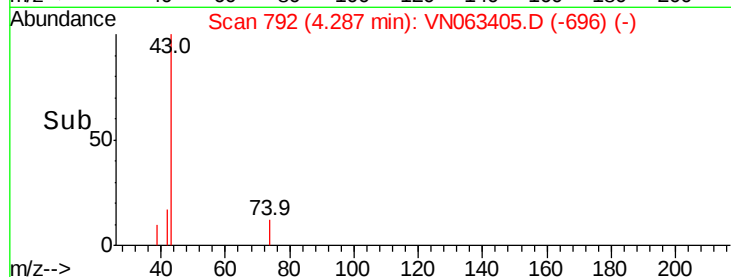
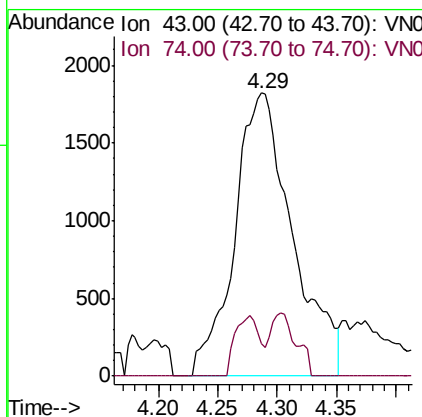
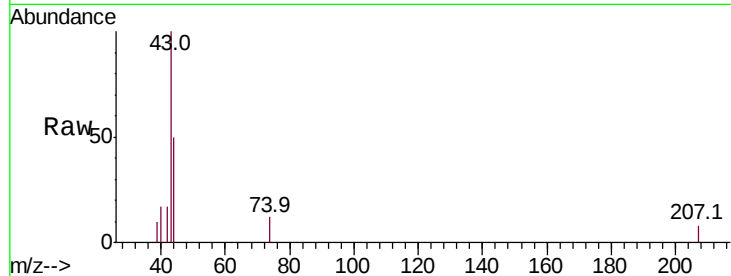




#18
Methyl Acetate
Concen: 1.899 ug/l
RT: 4.29 min Scan# 792
Delta R.T. 0.01 min
Lab File: VN063405.D
Acq: 17 Sep 2020 8:15

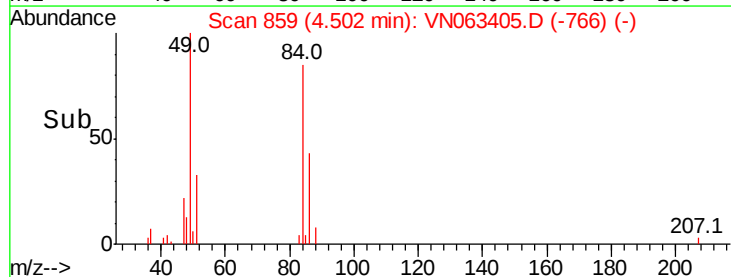
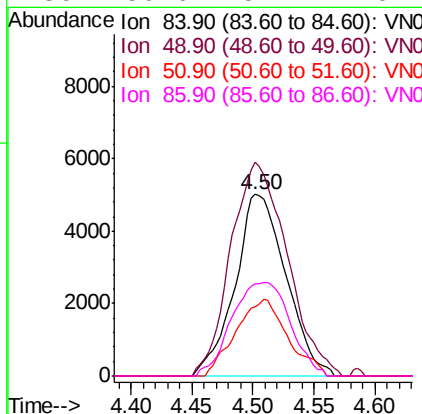
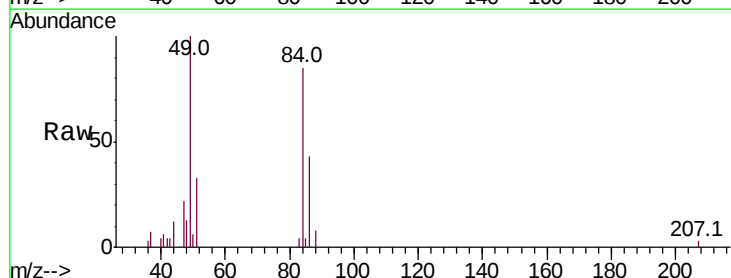
Instrument :
MSVOA_N
ClientSampled :
VNJ-229

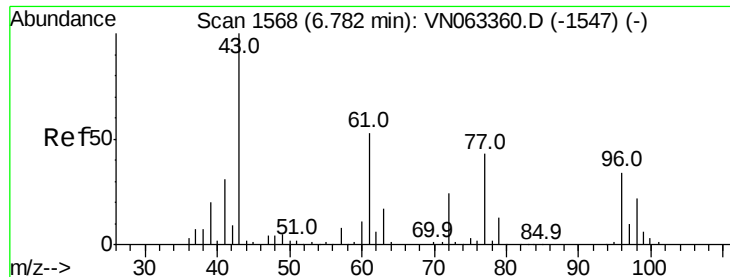
Tot Ion: 43 Resp: 6168
Ion Ratio Lower Upper
43 100
74 9.1 17.4 26.2#



#20
Methylene Chloride
Concen: 4.485 ug/l
RT: 4.50 min Scan# 859
Delta R.T. -0.00 min
Lab File: VN063405.D
Acq: 17 Sep 2020 8:15

Tgt Ion: 84 Resp: 14538
Ion Ratio Lower Upper
84 100
49 117.7 110.7 166.1
51 38.4 32.9 49.3
86 50.6 51.1 76.7#

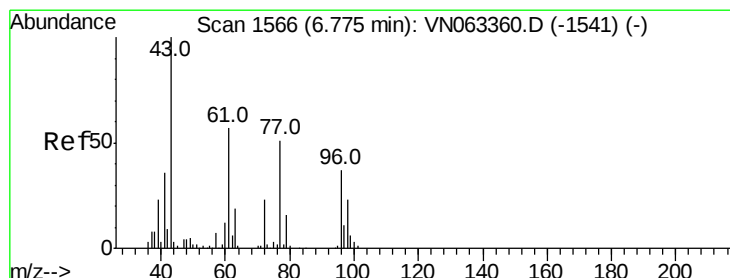
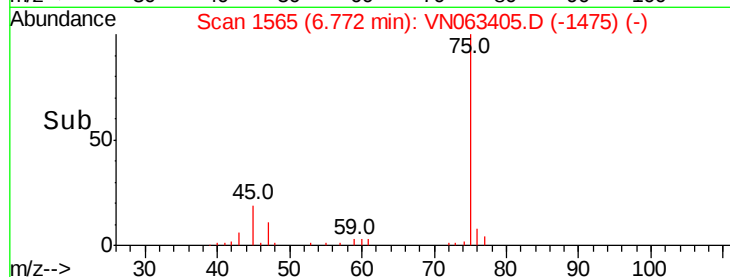
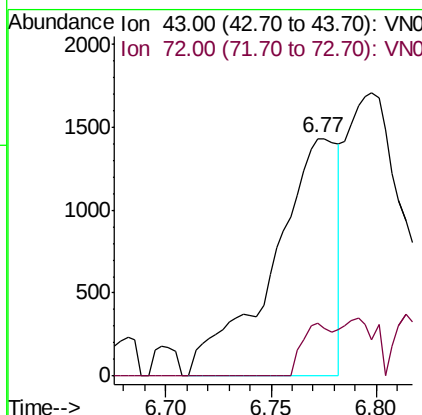
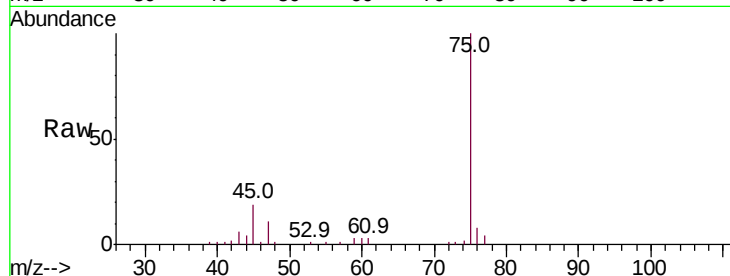




#25
2-Butanone
Concen: 1.559 ug/l
RT: 6.77 min Scan# 1565
Delta R.T. -0.01 min
Lab File: VN063405.D
Acq: 17 Sep 2020 8:15

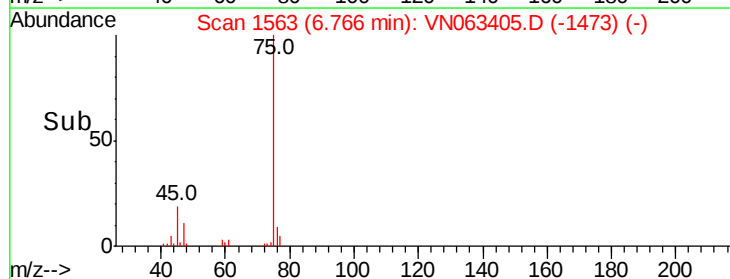
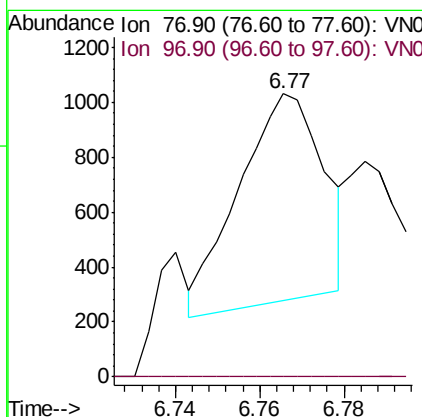
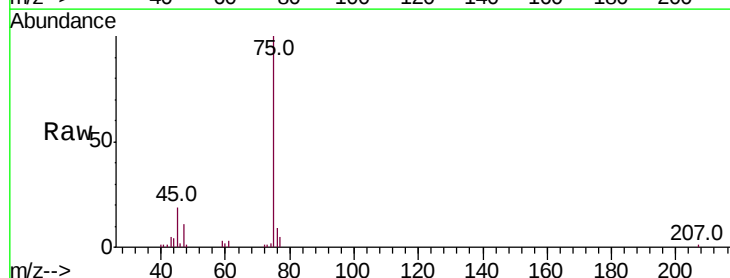
Instrument :
MSVOA_N
ClientSampleId :
VNJ-229

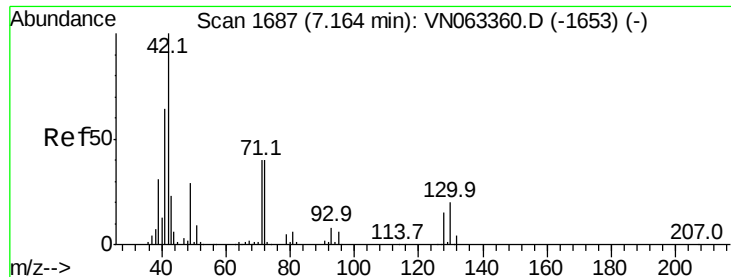
Tot Ion: 43 Resp: 3067
Ion Ratio Lower Upper
43 100
72 22.2 19.2 28.8



#26
2,2-Dichloropropane
Concen: 0.205 ug/l
RT: 6.77 min Scan# 1563
Delta R.T. -0.01 min
Lab File: VN063405.D
Acq: 17 Sep 2020 8:15

Tgt Ion: 77 Resp: 1050
Ion Ratio Lower Upper
77 100
97 0.0 10.5 31.6#





#29

Tetrahydrofuran

Concen: 0.866 ug/l

RT: 7.16 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VN063405.D

Acq: 17 Sep 2020 8:15

Instrument :

MSVOA_N

ClientSampleId :

VNJ-229

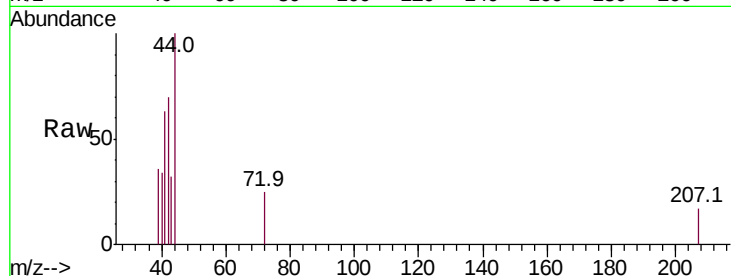
Tot Ion: 42 Resp: 1164

Ion Ratio Lower Upper

42 100

72 61.1 32.1 48.1#

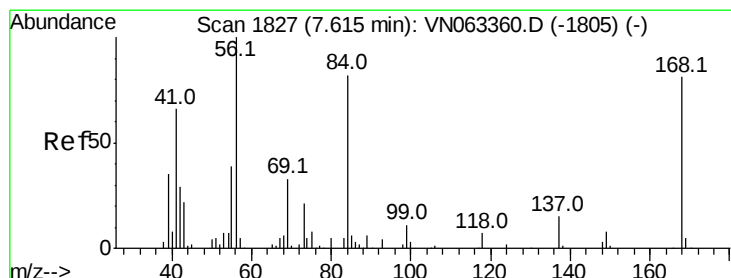
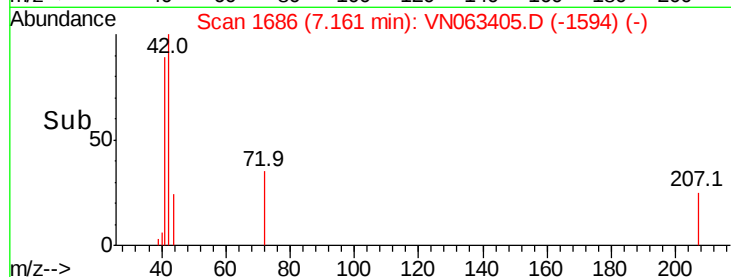
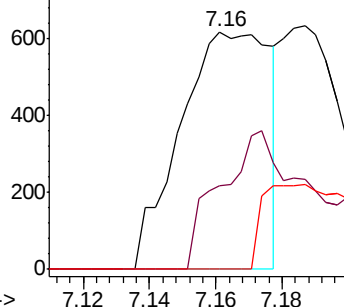
71 0.0 31.2 46.8#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 1.244 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN063405.D

Acq: 17 Sep 2020 8:15

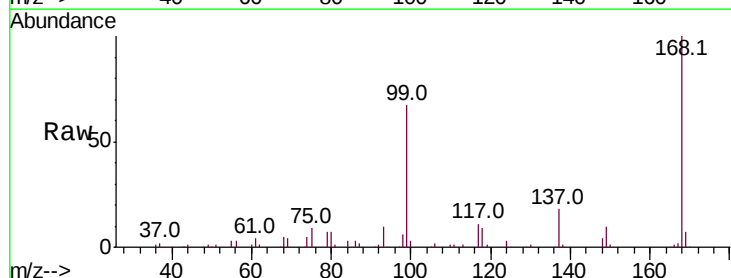
Tgt Ion: 56 Resp: 6841

Ion Ratio Lower Upper

56 100

69 129.9 26.1 39.1#

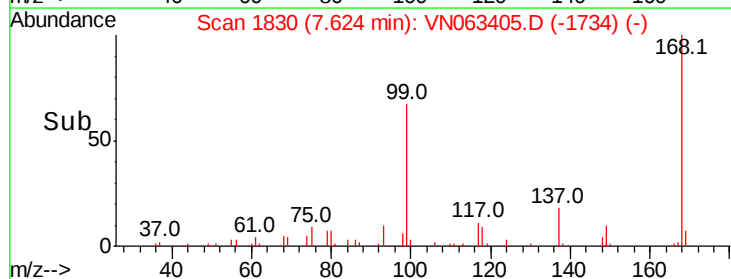
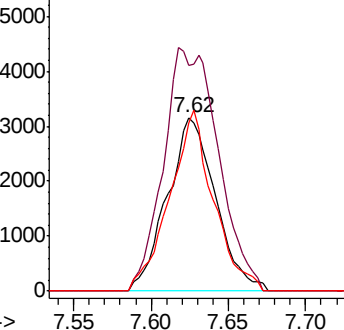
84 96.9 65.4 98.2

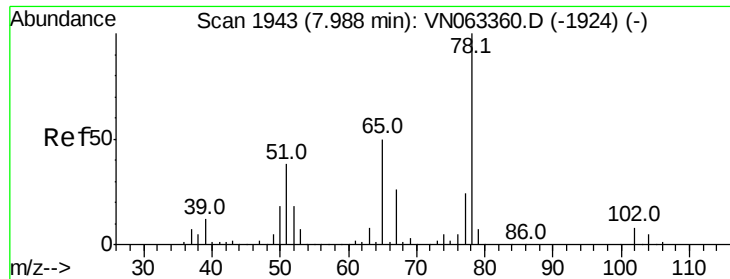


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

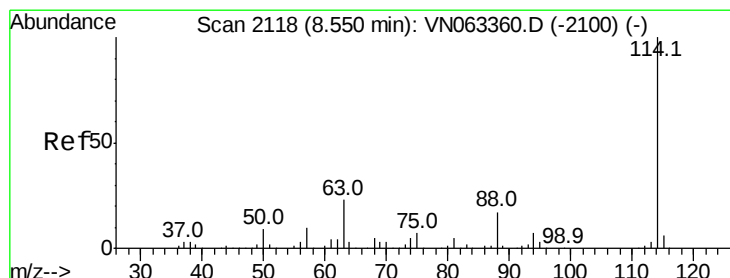
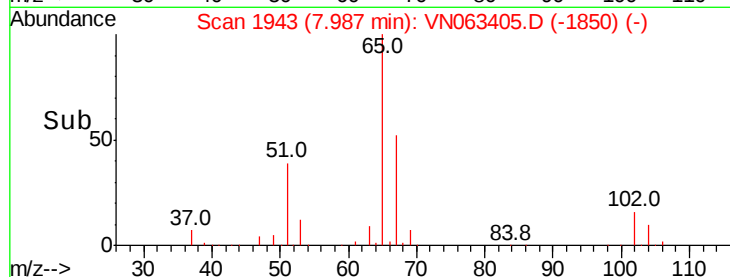
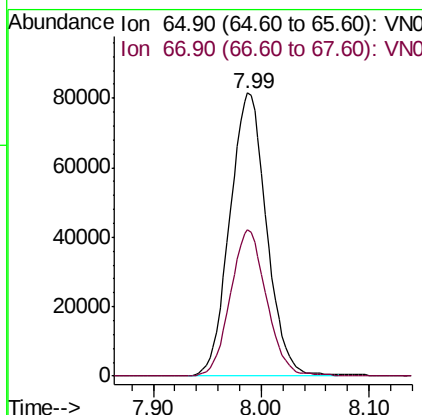
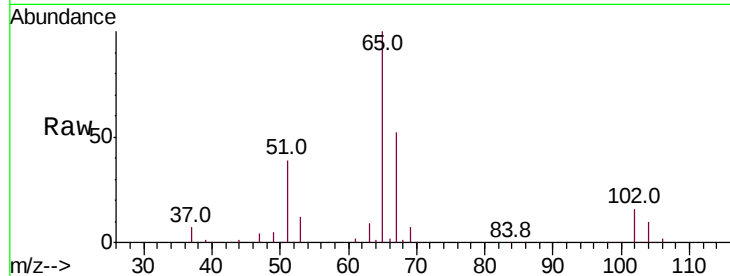




#33
 1,2-Dichloroethane-d4
 Concen: 48.545 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. -0.00 min
 Lab File: VN063405.D
 Acq: 17 Sep 2020 8:15

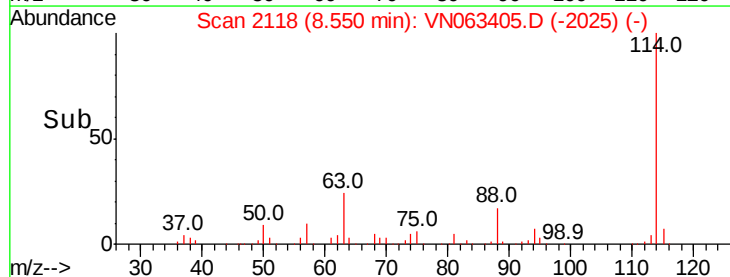
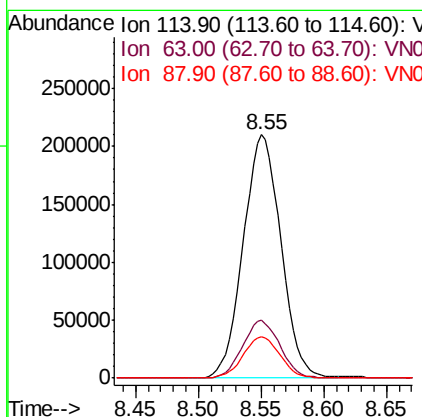
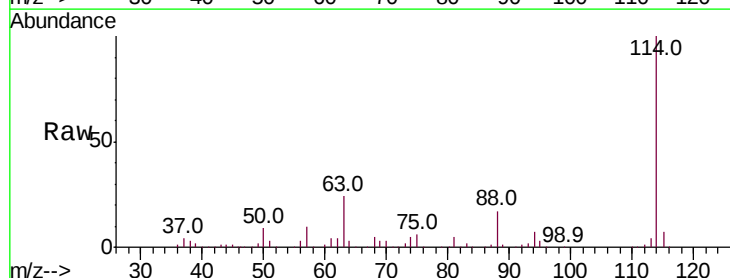
Instrument :
 MSVOA_N
 ClientSampleId :
 VNJ-229

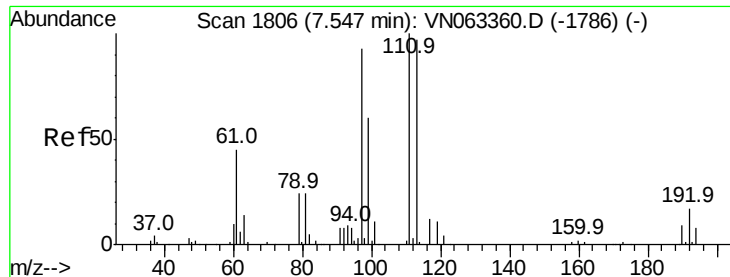
Tot Ion: 65 Resp: 193247
 Ion Ratio Lower Upper
 65 100
 67 50.9 0.0 104.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN063405.D
 Acq: 17 Sep 2020 8:15

Tgt Ion: 114 Resp: 439291
 Ion Ratio Lower Upper
 114 100
 63 23.6 0.0 46.4
 88 16.8 0.0 33.2

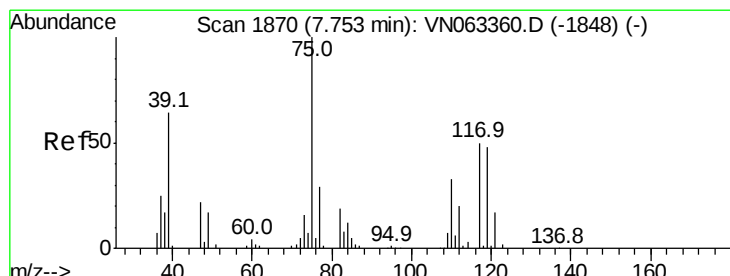
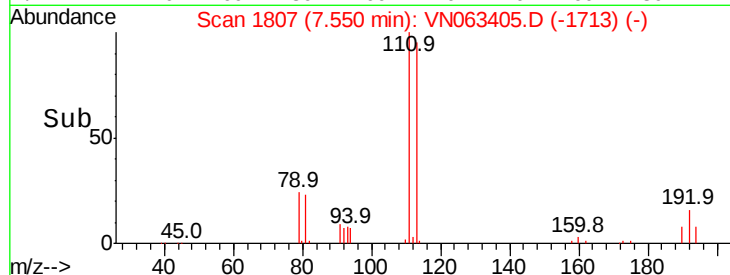
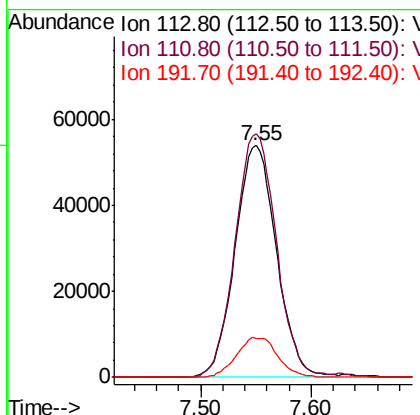
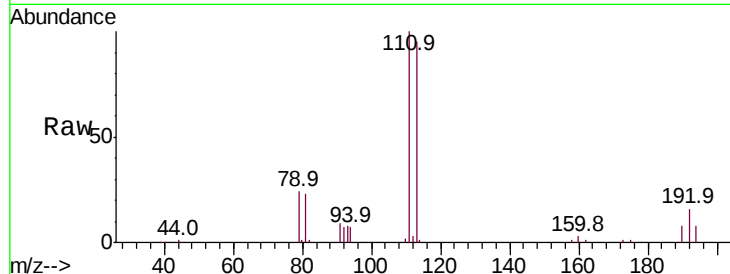




#35
 Dibromofluoromethane
 Concen: 46.131 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN063405.D
 Acq: 17 Sep 2020 8:15

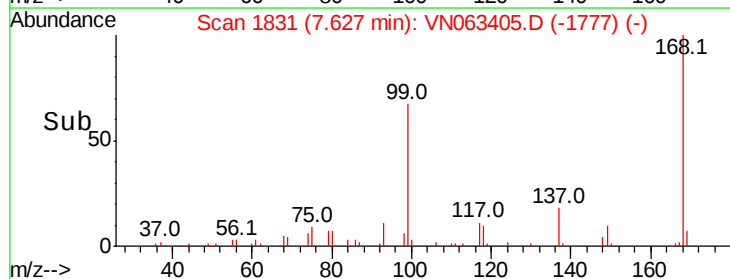
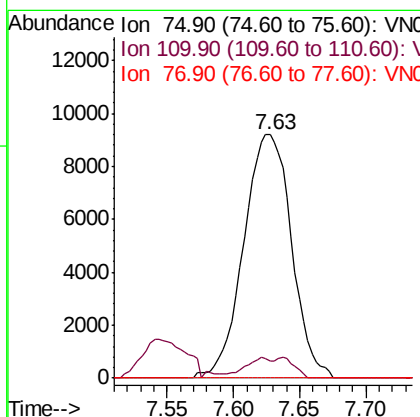
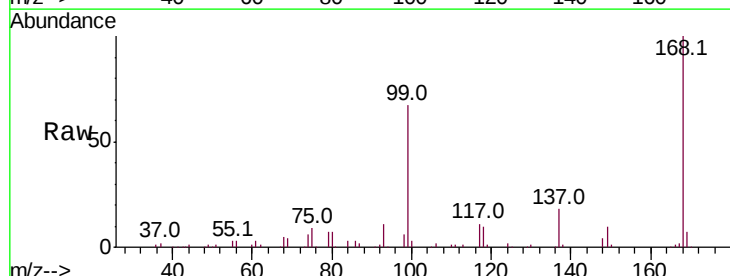
Instrument :
 MSVOA_N
 ClientSampleId :
 VNJ-229

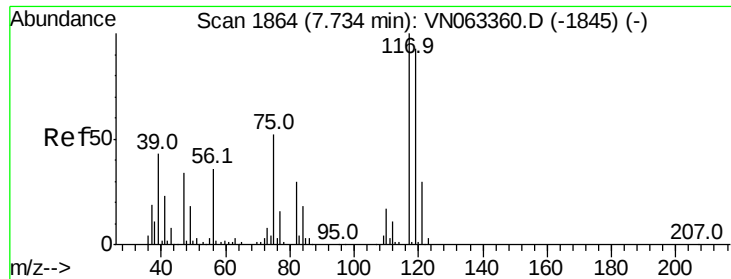
Tot Ion	Ratio	Lower	Upper
113	100		
111	104.7	82.9	124.3
192	17.2	13.9	20.9



#36
 1,1-Dichloropropene
 Concen: 4.939 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN063405.D
 Acq: 17 Sep 2020 8:15

Tgt Ion	Ratio	Lower	Upper
75	100		
110	2.8	16.5	49.5#
77	0.0	24.6	36.8#





#38

Carbon Tetrachloride

Concen: 5.405 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN063405.D

Acq: 17 Sep 2020 8:15

Instrument :

MSVOA_N

ClientSampled :

VNJ-229

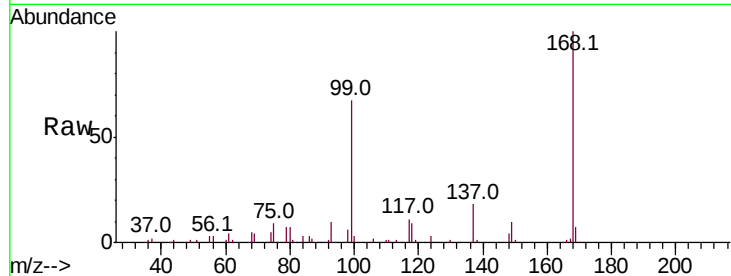
Tot Ion:117 Resp: 25823

Ion Ratio Lower Upper

117 100

119 5.3 74.5 111.7#

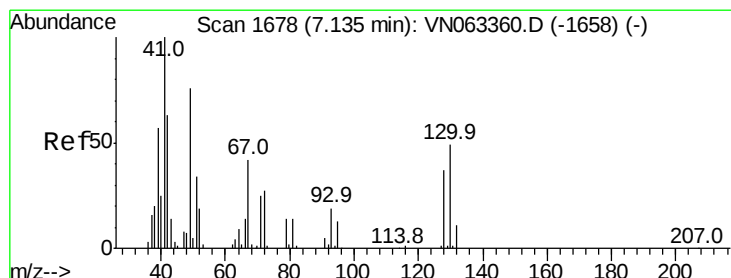
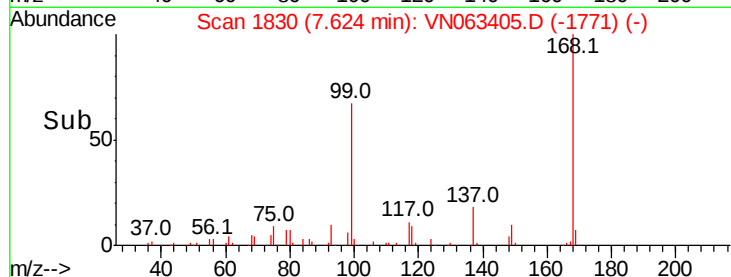
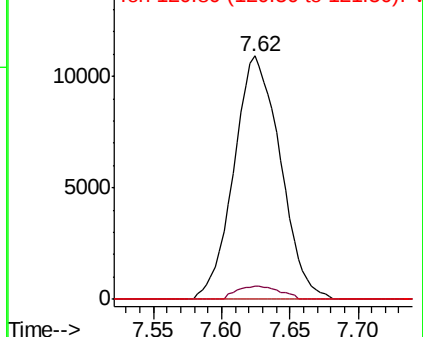
121 0.0 24.1 36.1#



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



#41

Methacrylonitrile

Concen: 0.304 ug/l

RT: 7.16 min Scan# 1687

Delta R.T. 0.03 min

Lab File: VN063405.D

Acq: 17 Sep 2020 8:15

Tgt Ion: 41 Resp: 628

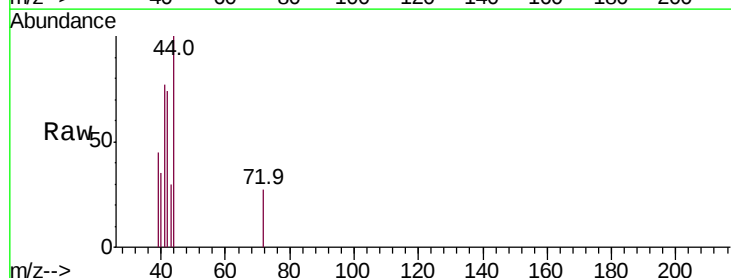
Ion Ratio Lower Upper

41 100

39 69.9 0.0 0.0#

67 0.0 0.0 0.0

52 0.0 0.0 0.0

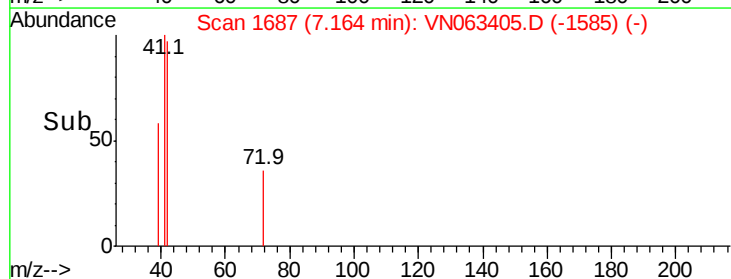
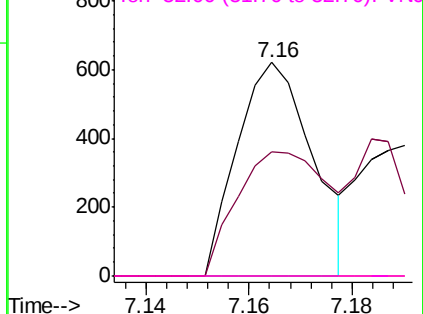


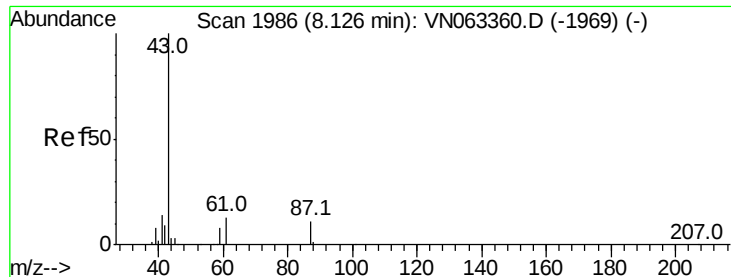
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 10.198 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VN063405.D

Acq: 17 Sep 2020 8:15

Instrument :

MSVOA_N

ClientSampleId :

VNJ-229

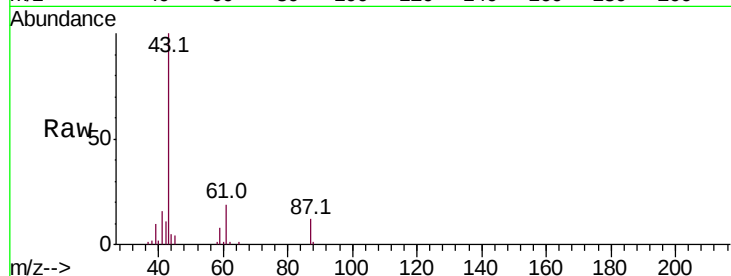
Tot Ion: 43 Resp: 83761

Ion Ratio Lower Upper

43 100

61 18.5 14.2 21.2

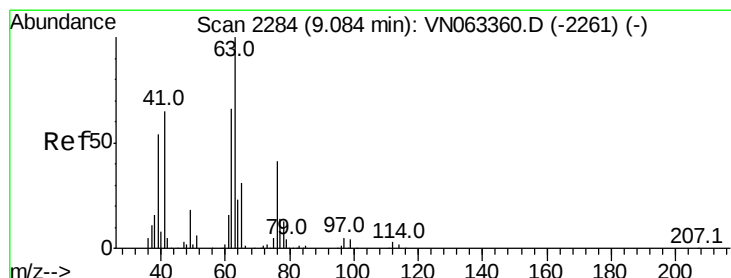
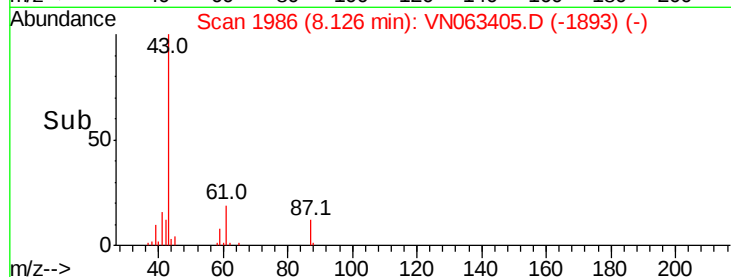
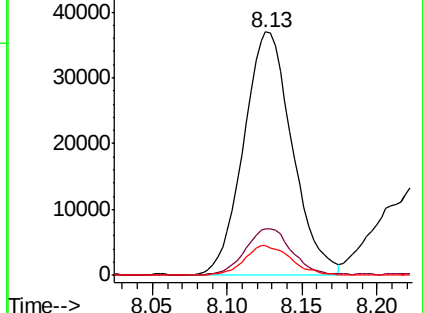
87 11.7 9.0 13.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#45

1,2-Dichloropropane

Concen: 0.449 ug/l

RT: 9.24 min Scan# 2332

Delta R.T. 0.15 min

Lab File: VN063405.D

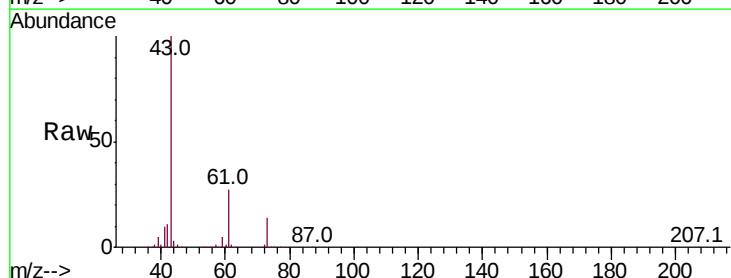
Acq: 17 Sep 2020 8:15

Tgt Ion: 63 Resp: 1632

Ion Ratio Lower Upper

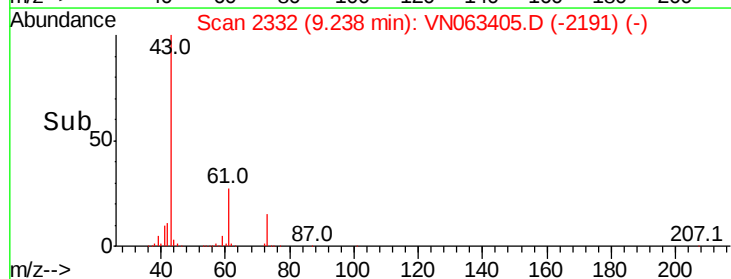
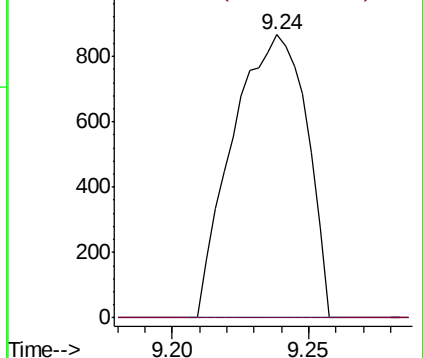
63 100

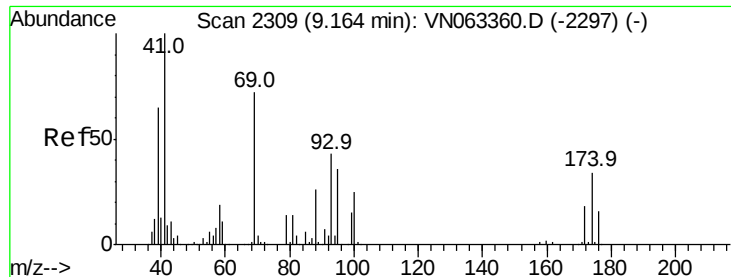
65 0.0 25.0 37.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0





#48

Methyl methacrylate

Concen: 1.167 ug/l

RT: 9.15 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN063405.D

Acq: 17 Sep 2020 8:15

Instrument :

MSVOA_N

ClientSampleId :

VNJ-229

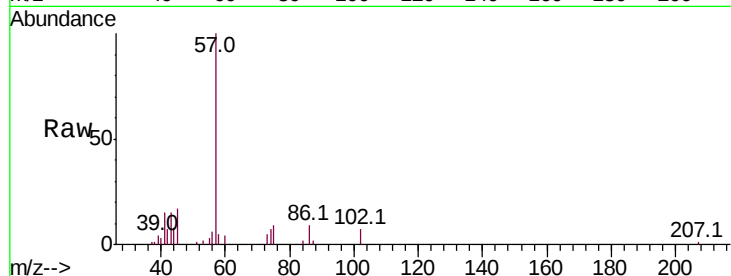
Tot Ion: 41 Resp: 4709

Ion Ratio Lower Upper

41 100

69 0.0 59.3 88.9#

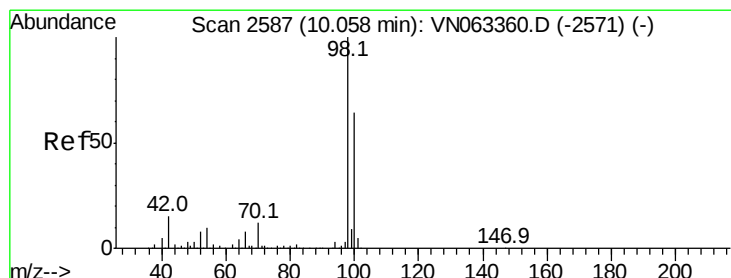
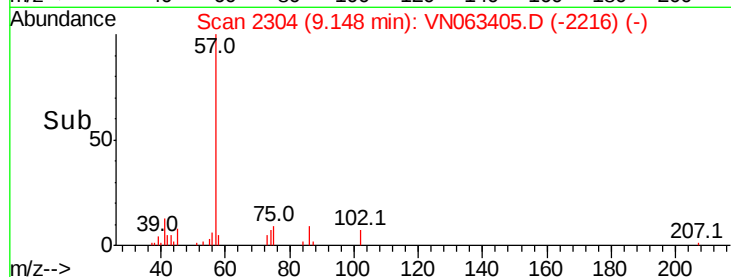
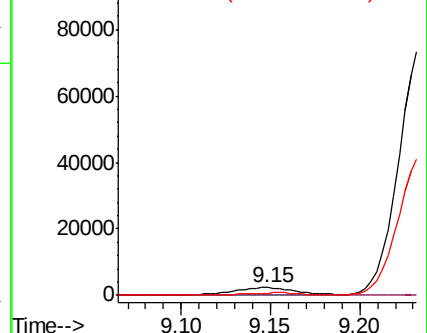
39 0.0 52.9 79.3#



Abundance Ion 41.00 (40.70 to 41.70): VN063360.D (-2297) (-)

Ion 69.00 (68.70 to 69.70): VN063360.D (-2297) (-)

Ion 39.00 (38.70 to 39.70): VN063360.D (-2297) (-)



#50

Toluene-d8

Concen: 50.112 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063405.D

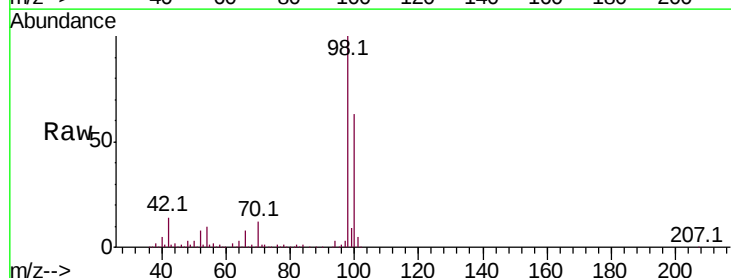
Acq: 17 Sep 2020 8:15

Tgt Ion: 98 Resp: 573040

Ion Ratio Lower Upper

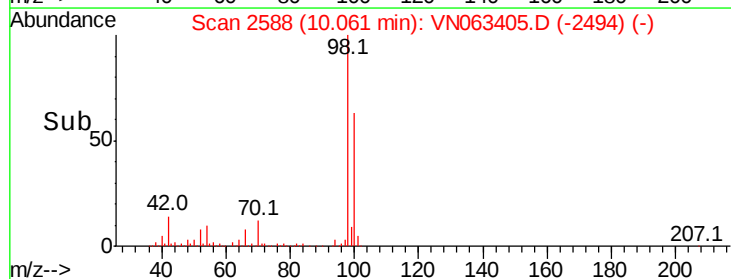
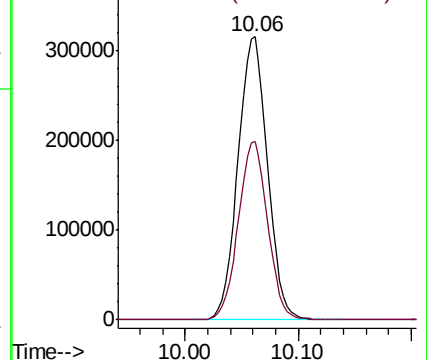
98 100

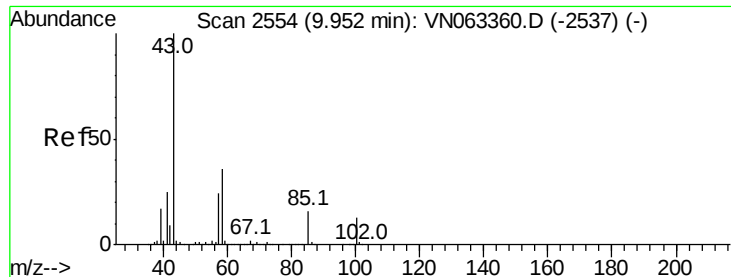
100 62.6 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN063360.D (-2571) (-)

Ion 100.00 (99.70 to 100.70): VN063360.D (-2571) (-)





#51

4-Methyl-2-Pentanone

Concen: 2.291 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN063405.D

Acq: 17 Sep 2020 8:15

Instrument :

MSVOA_N

ClientSampleId :

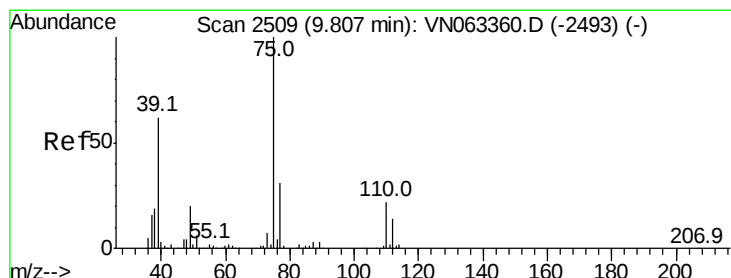
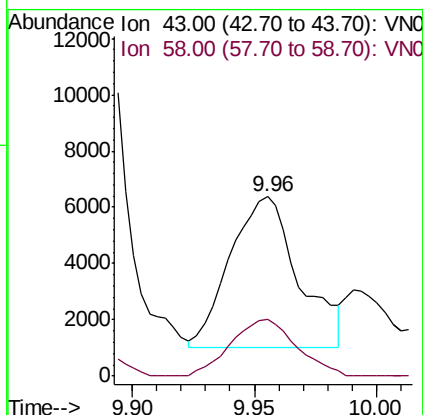
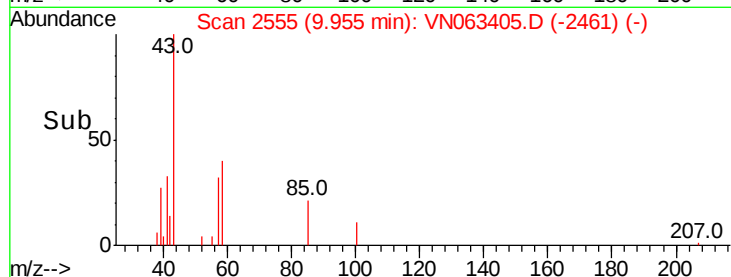
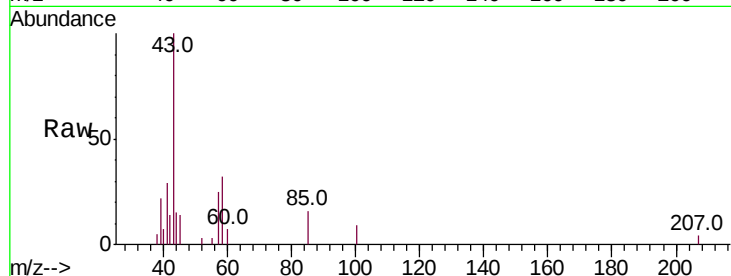
VNJ-229

Tot Ion: 43 Resp: 10532

Ion Ratio Lower Upper

43 100

58 35.9 29.0 43.6



#54

cis-1,3-Dichloropropene

Concen: 5.889 ug/l

RT: 9.87 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN063405.D

Acq: 17 Sep 2020 8:15

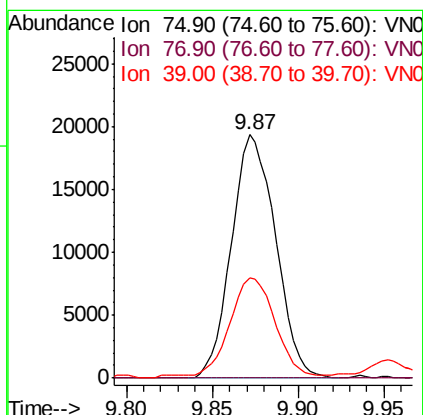
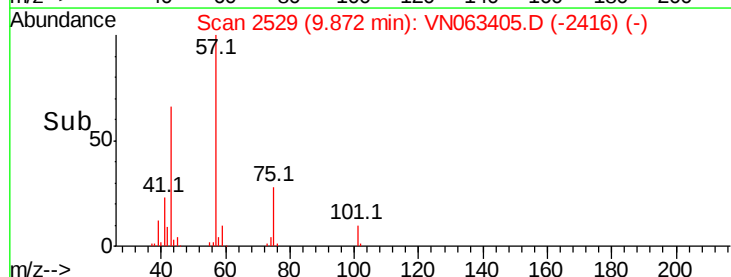
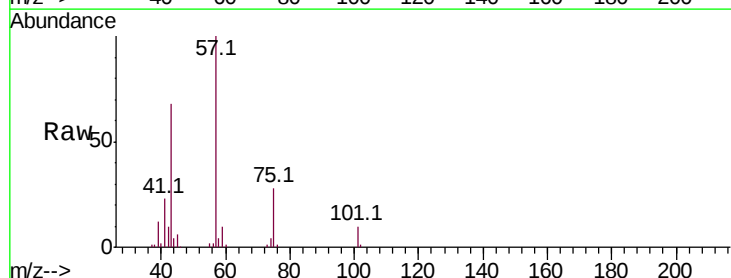
Tgt Ion: 75 Resp: 34455

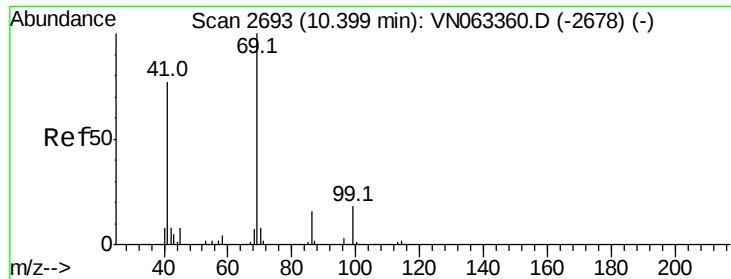
Ion Ratio Lower Upper

75 100

77 0.0 24.6 37.0#

39 40.3 49.8 74.8#





#56

Ethyl methacrylate

Concen: 0.240 ug/l

RT: 10.52 min Scan# 2731

Delta R.T. 0.12 min

Lab File: VN063405.D

Acq: 17 Sep 2020 8:15

Instrument :

MSVOA_N

ClientSampleId :

VNJ-229

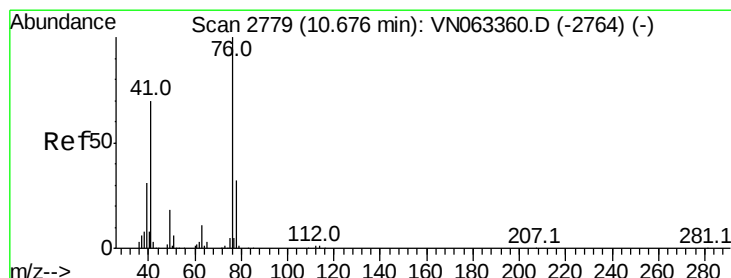
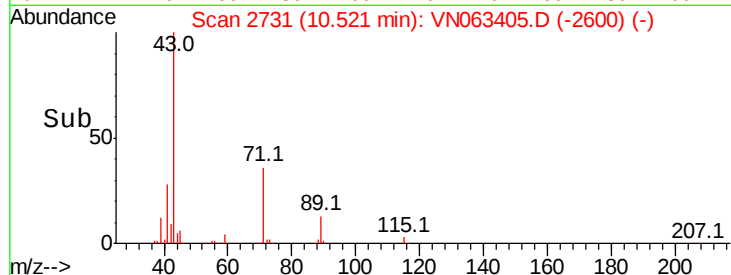
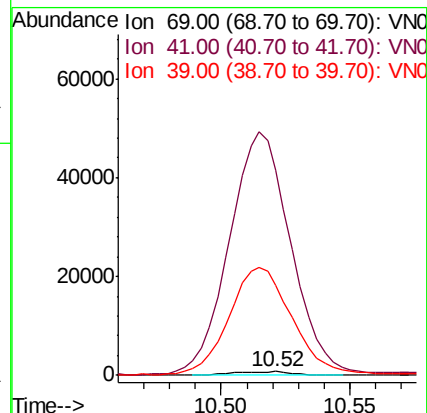
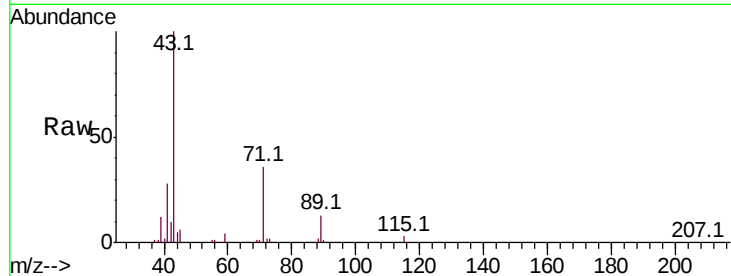
Tot Ion: 69 Resp: 1196

Ion Ratio Lower Upper

69 100

41 6809.2 61.0 91.6#

39 3135.5 39.2 58.8#



#57

1,3-Dichloropropane

Concen: 1.007 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063405.D

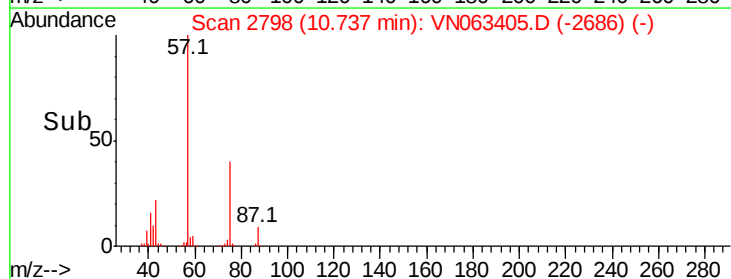
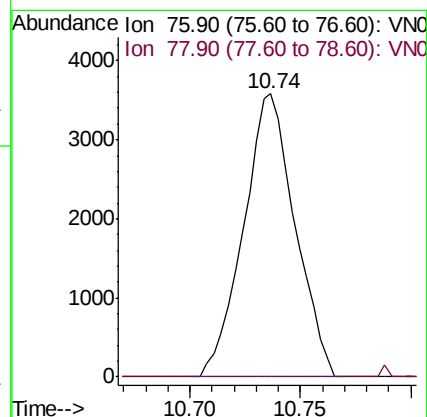
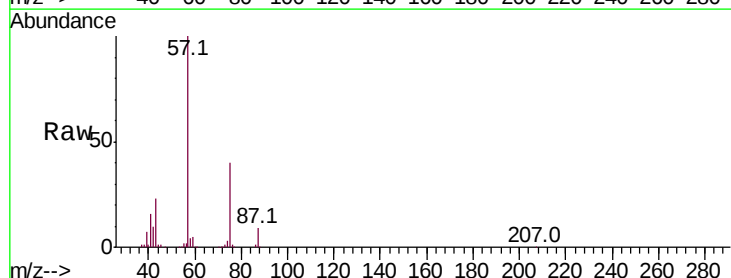
Acq: 17 Sep 2020 8:15

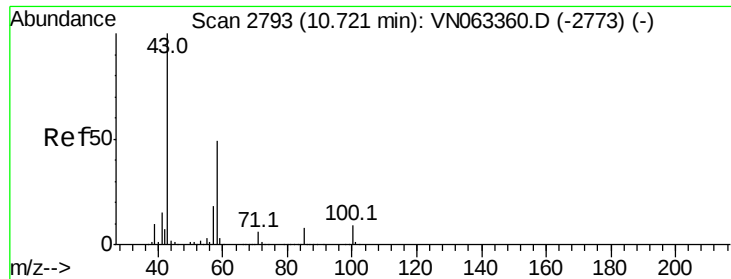
Tgt Ion: 76 Resp: 5791

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#





#59

2-Hexanone

Concen: 26.594 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063405.D

Acq: 17 Sep 2020 8:15

Instrument :

MSVOA_N

ClientSampleId :

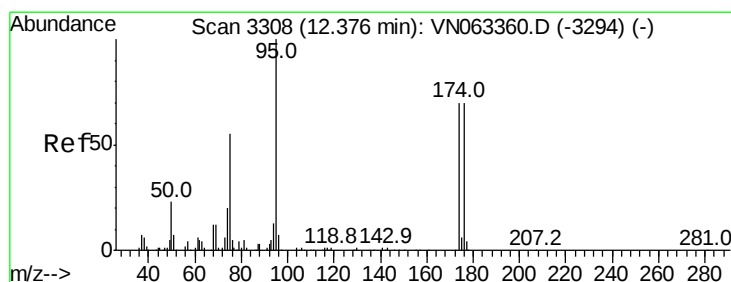
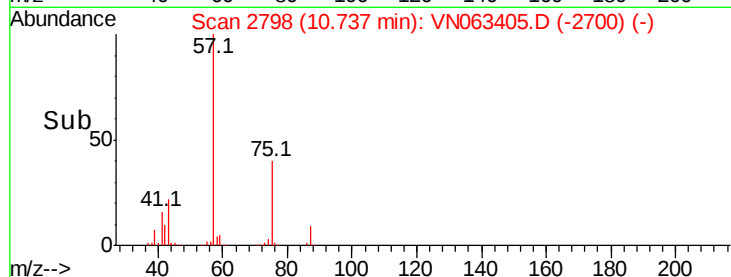
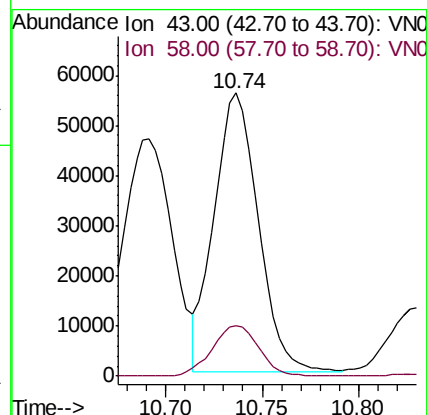
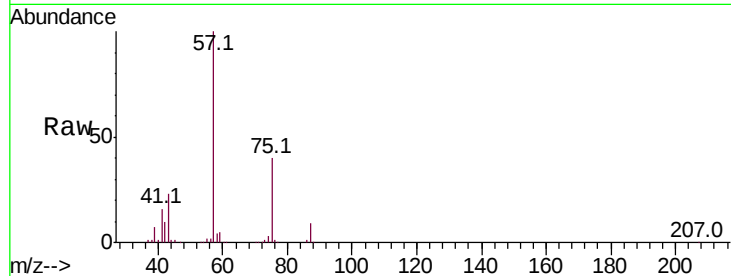
VNJ-229

Tot Ion: 43 Resp: 88589

Ion Ratio Lower Upper

43 100

58 19.3 24.7 74.1#



#62

4-Bromofluorobenzene

Concen: 53.780 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063405.D

Acq: 17 Sep 2020 8:15

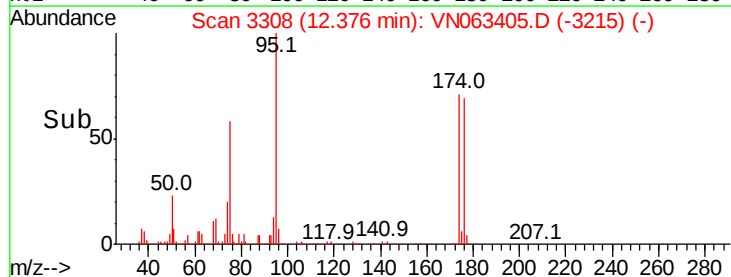
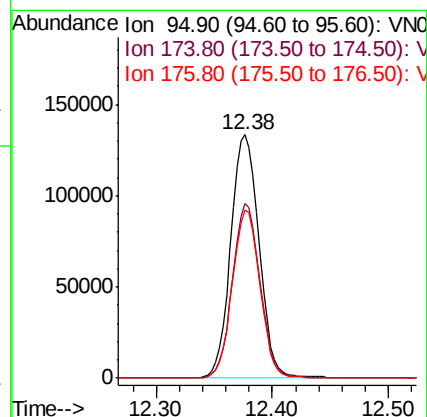
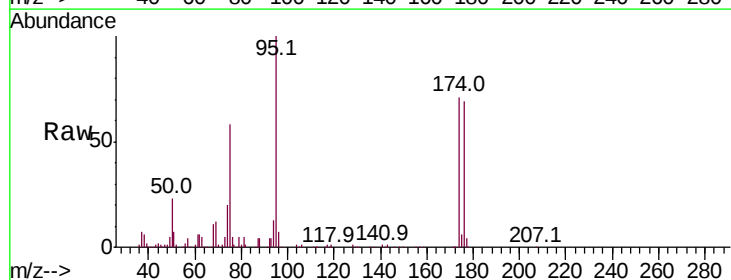
Tgt Ion: 95 Resp: 225443

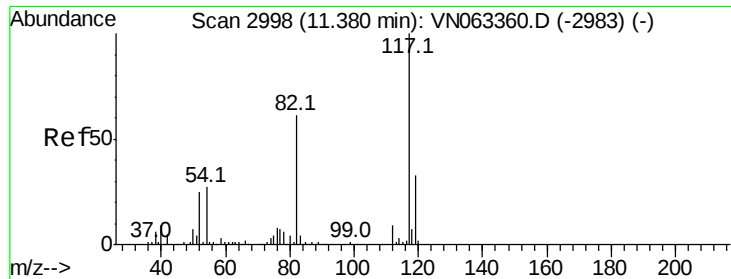
Ion Ratio Lower Upper

95 100

174 69.7 0.0 140.8

176 67.6 0.0 137.6

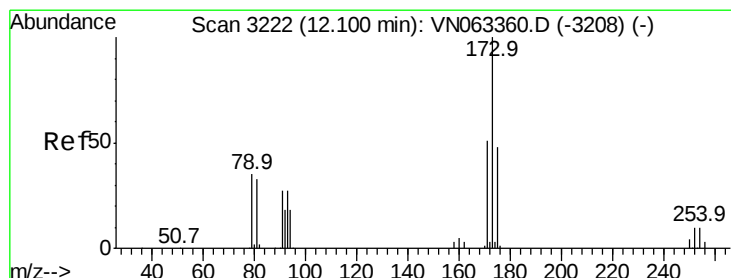
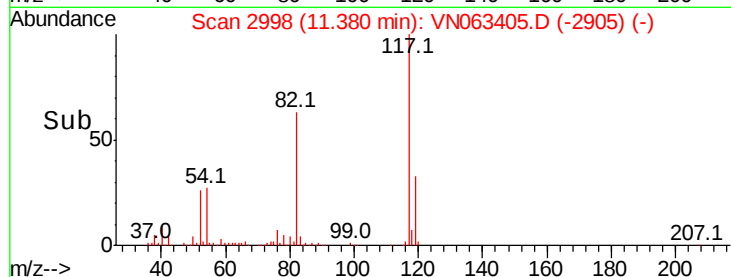
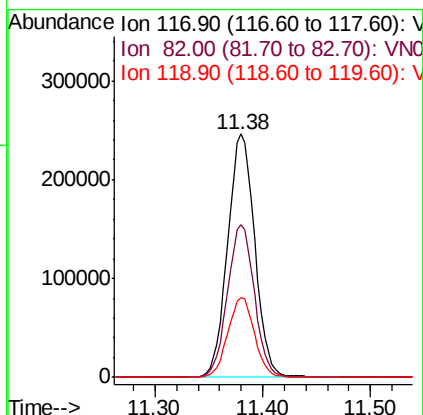
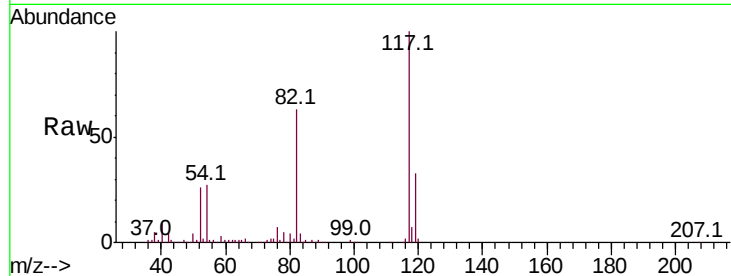




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN063405.D
Acq: 17 Sep 2020 8:15

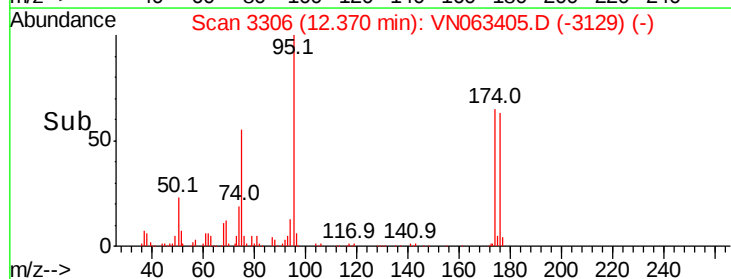
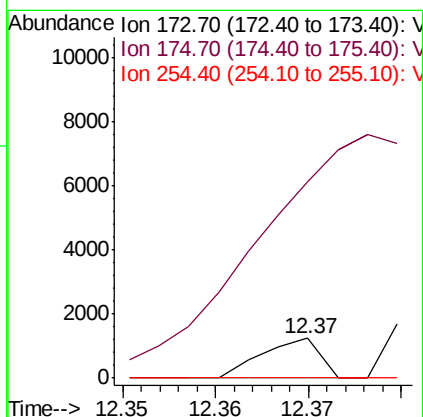
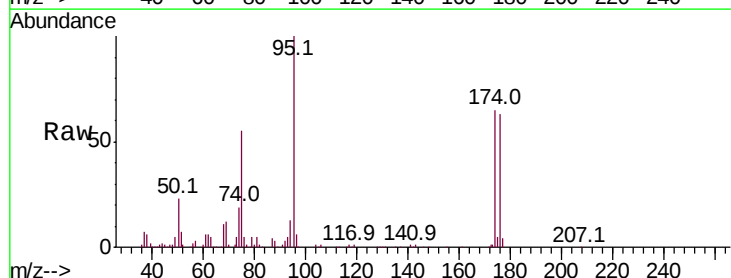
Instrument :
MSVOA_N
ClientSampleId :
VNJ-229

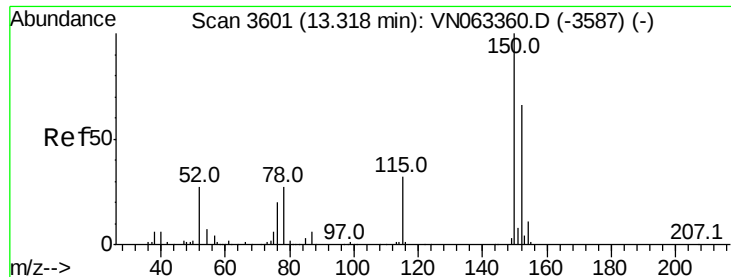
Tot Ion:117 Resp: 432774
Ion Ratio Lower Upper
117 100
82 62.7 49.2 73.8
119 32.8 26.2 39.4



#71
Bromoform
Concen: 0.216 ug/l
RT: 12.37 min Scan# 3306
Delta R.T. 0.27 min
Lab File: VN063405.D
Acq: 17 Sep 2020 8:15

Tgt Ion:173 Resp: 542
Ion Ratio Lower Upper
173 100
175 0.0 24.0 72.0#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. -0.00 min

Lab File: VN063405.D

Acq: 17 Sep 2020 8:15

Instrument :

MSVOA_N

ClientSampleId :

VNJ-229

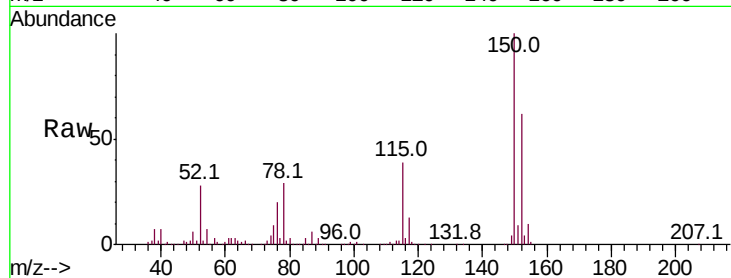
Tot Ion:152 Resp: 183886

Ion Ratio Lower Upper

152 100

115 63.8 32.2 96.6

150 161.4 0.0 343.4

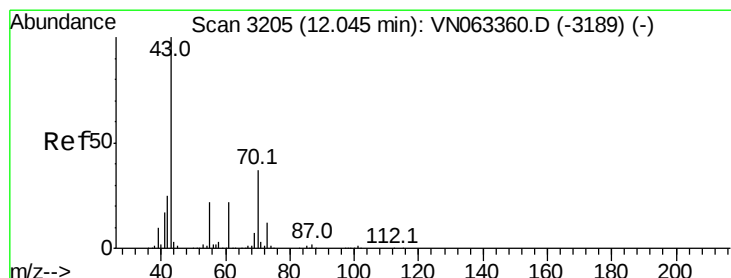
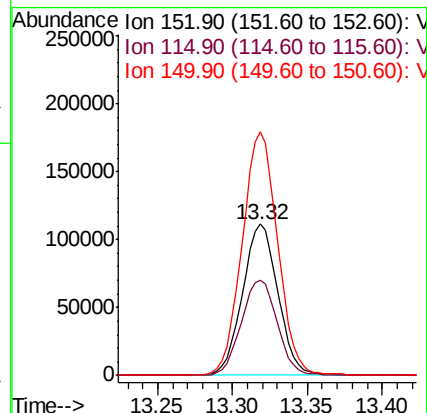
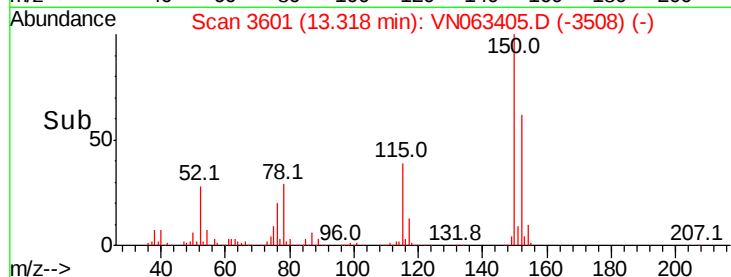


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 0.527 ug/l

RT: 12.01 min Scan# 3194

Delta R.T. -0.04 min

Lab File: VN063405.D

Acq: 17 Sep 2020 8:15

Tgt Ion: 43 Resp: 3674

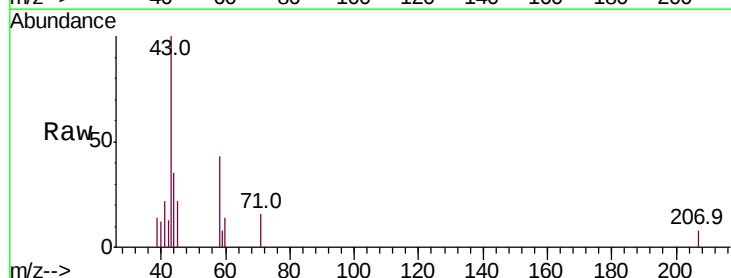
Ion Ratio Lower Upper

43 100

70 0.8 29.6 44.4#

55 9.1 17.7 26.5#

61 0.0 17.4 26.2#



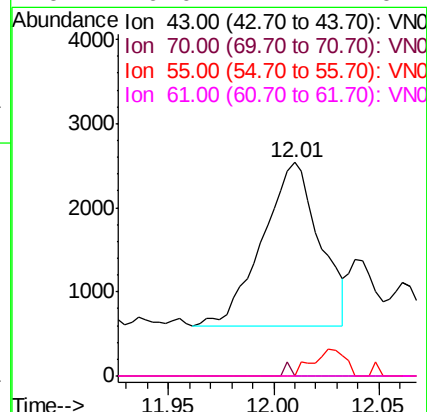
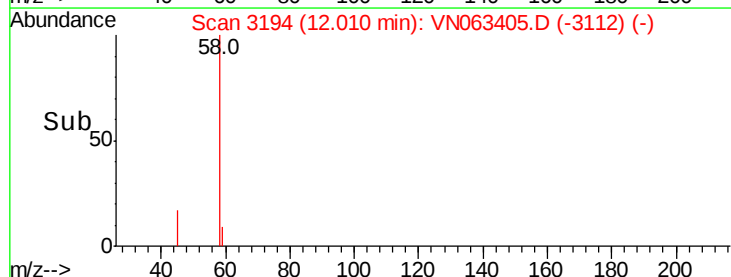
Abundance

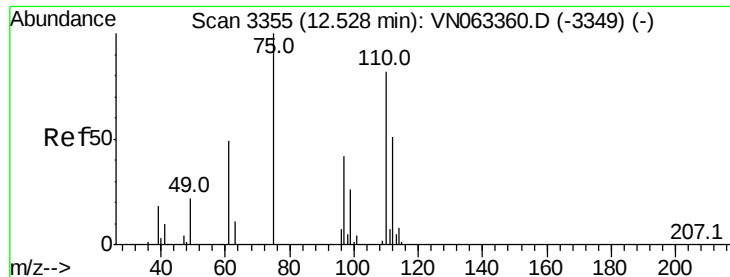
Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 27.665 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063405.D

Acq: 17 Sep 2020 8:15

Instrument :

MSVOA_N

ClientSampleId :

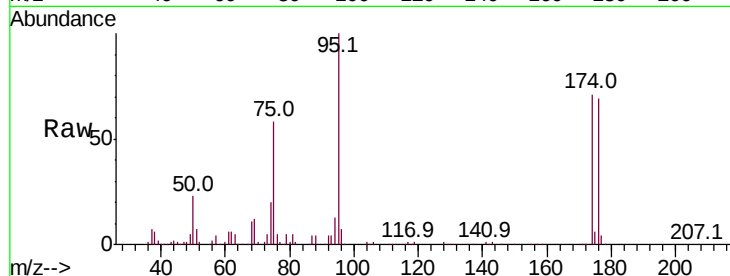
VNJ-229

Tot Ion: 75 Resp: 125917

Ion Ratio Lower Upper

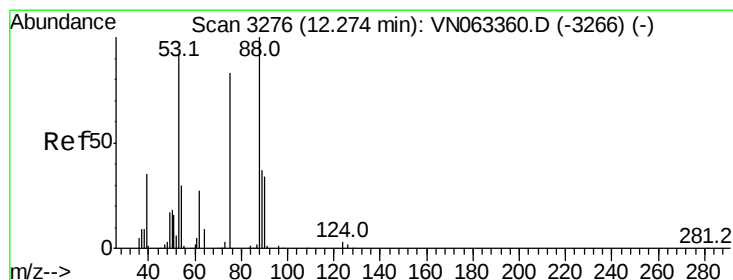
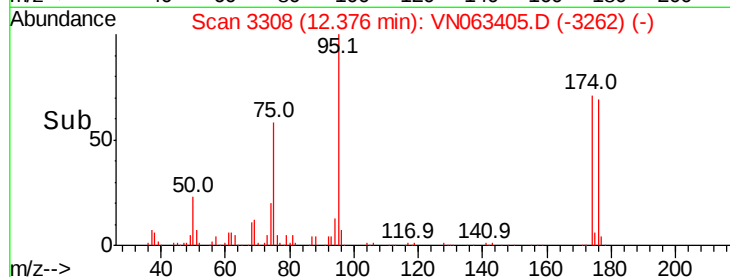
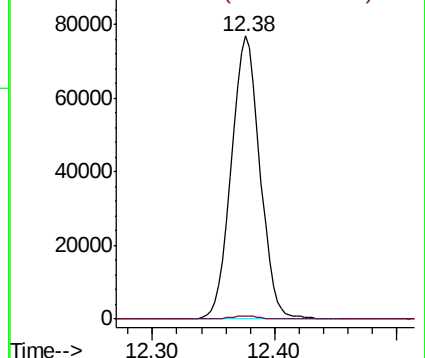
75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 75.848 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063405.D

Acq: 17 Sep 2020 8:15

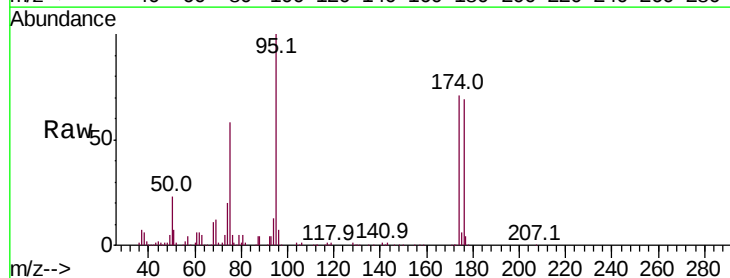
Tgt Ion: 75 Resp: 125917

Ion Ratio Lower Upper

75 100

53 0.0 85.7 128.5#

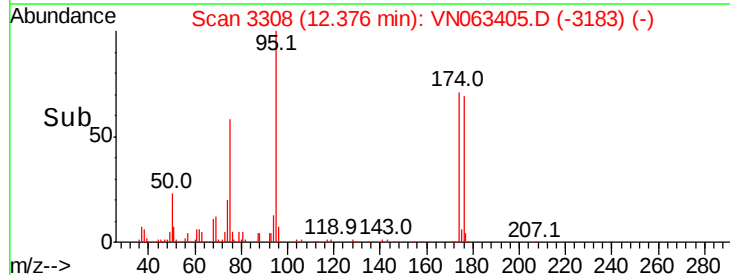
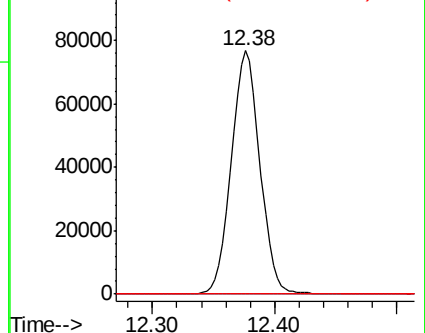
89 0.1 38.0 57.0#

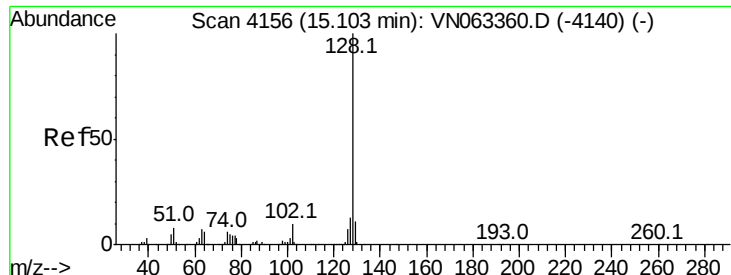


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#95

Naphthalene

Concen: 6.827 ug/l

RT: 15.11 min Scan# 4157

Delta R.T. 0.00 min

Lab File: VN063405.D

Acq: 17 Sep 2020 8:15

Instrument :

MSVOA_N

ClientSampleId :

VNJ-229

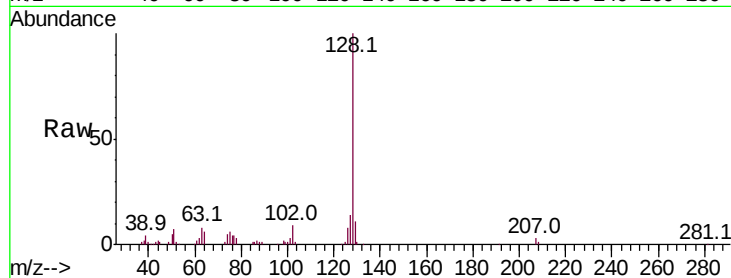
Tot Ion:128 Resp: 80205

Ion Ratio Lower Upper

128 100

127 13.4 10.6 15.8

129 10.8 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

