

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092120\
 Data File : VN063497.D
 Acq On : 21 Sep 2020 19:43
 Operator : JC/MD
 Sample : L3869-10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 OR-02-091820

Quant Time: Sep 22 02:27:44 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	268718	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	506182	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	505775	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	221664	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	212488	46.45	ug/l	0.00
Spiked Amount			Recovery	=	92.90%	
35) Dibromofluoromethane	7.55	113	158355	45.19	ug/l	0.00
Spiked Amount			Recovery	=	90.38%	
50) Toluene-d8	10.06	98	644745	48.93	ug/l	0.00
Spiked Amount			Recovery	=	97.86%	
62) 4-Bromofluorobenzene	12.38	95	262225	54.29	ug/l	0.00
Spiked Amount			Recovery	=	108.58%	

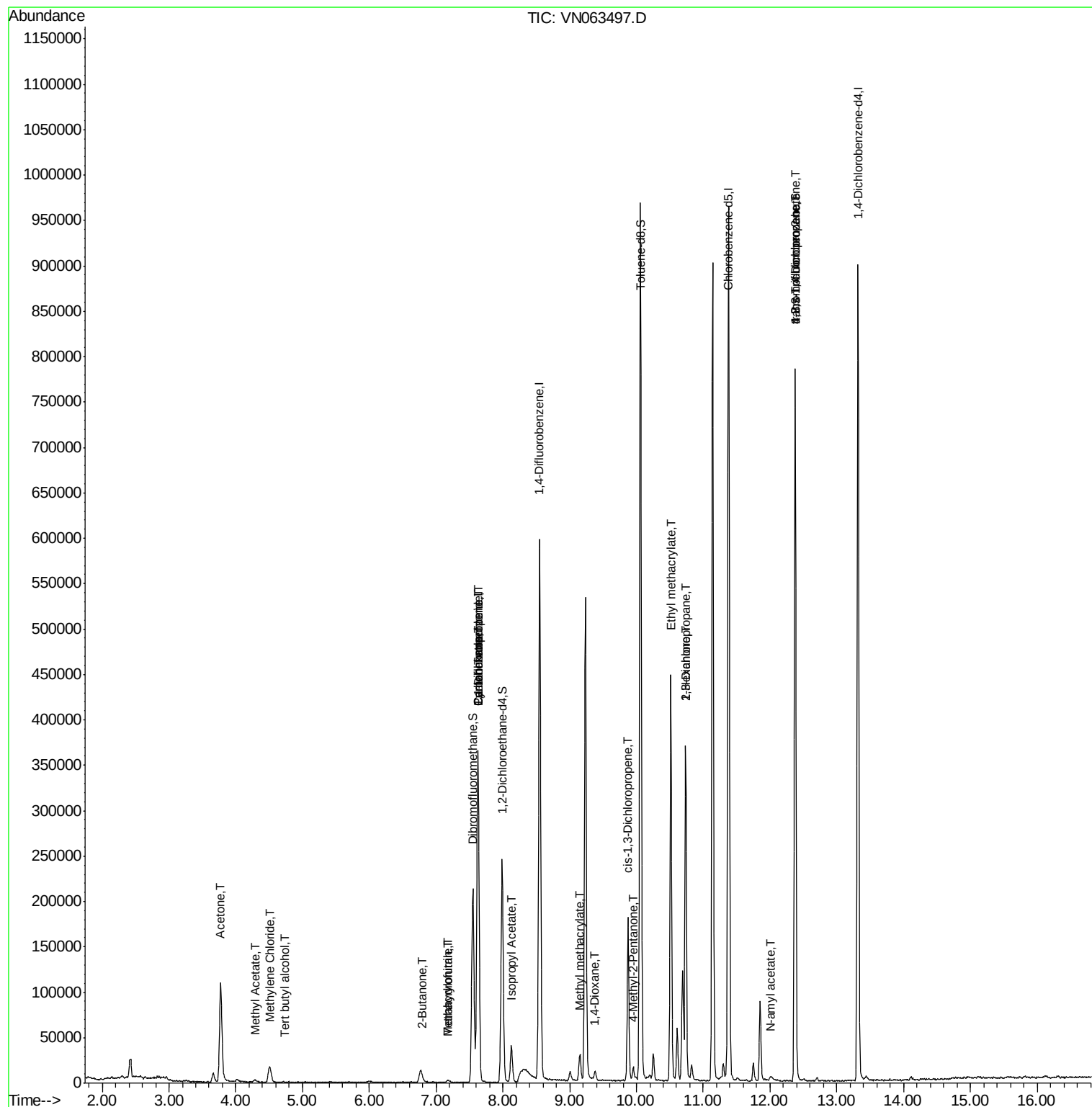
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	166	0.262	ug/l #	72
16) Acetone	3.77	43	182506	124.145	ug/l	96
18) Methyl Acetate	4.29	43	3477	0.932	ug/l #	71
20) Methylene Chloride	4.51	84	12704	3.411	ug/l	85
25) 2-Butanone	6.79	43	2939	1.300	ug/l	97
29) Tetrahydrofuran	7.17	42	2036	1.318	ug/l #	67
31) Cyclohexane	7.63	56	7427	1.176	ug/l #	12
36) 1,1-Dichloropropene	7.63	75	25138	4.662	ug/l #	51
38) Carbon Tetrachloride	7.63	117	30218	5.489	ug/l #	17
41) Methacrylonitrile	7.16	41	506	0.213	ug/l #	100
43) Isopropyl Acetate	8.13	43	47796	5.050	ug/l #	95
48) Methyl methacrylate	9.14	41	4991	1.073	ug/l #	15
49) 1,4-Dioxane	9.39	88	63	0.944	ug/l #	20
51) 4-Methyl-2-Pentanone	9.95	43	8198	1.547	ug/l #	79
54) cis-1,3-Dichloropropene	9.87	75	30660	4.548	ug/l #	62
56) Ethyl methacrylate	10.51	69	1152	0.201	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	3738	0.564	ug/l #	42
59) 2-Hexanone	10.74	43	58391	15.212	ug/l #	54
74) N-amyl acetate	12.01	43	4414	0.525	ug/l #	49
76) 1,2,3-Trichloropropane	12.38	75	146772	26.752	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	146772	73.343	ug/l #	7

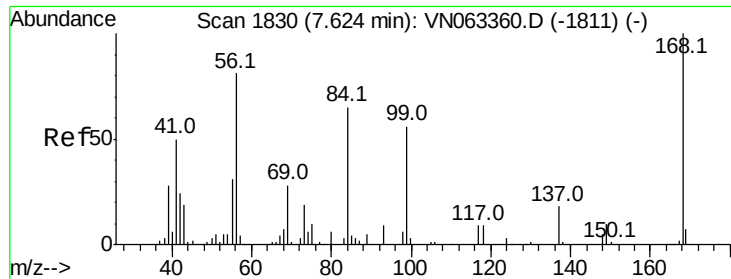
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063497.D

Acq: 21 Sep 2020 19:43

Instrument :

MSVOA_N

ClientSampleId :

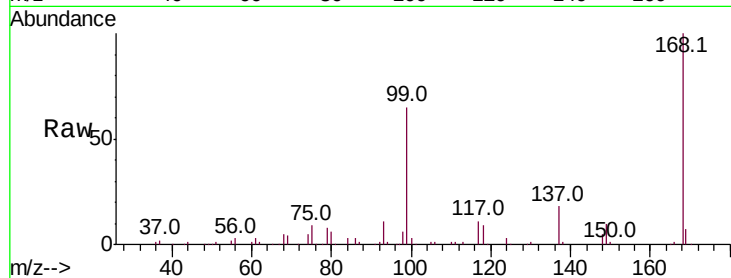
OR-02-091820

Tot Ion:168 Resp: 268718

Ion Ratio Lower Upper

168 100

99 65.2 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

120000

100000

80000

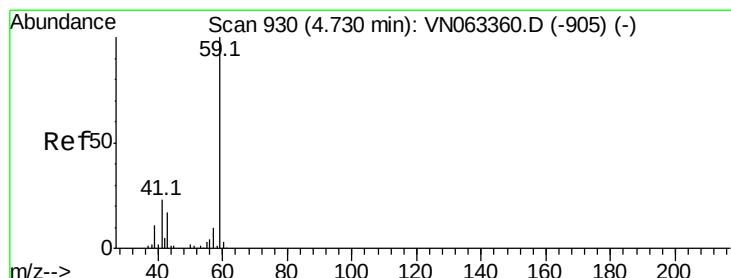
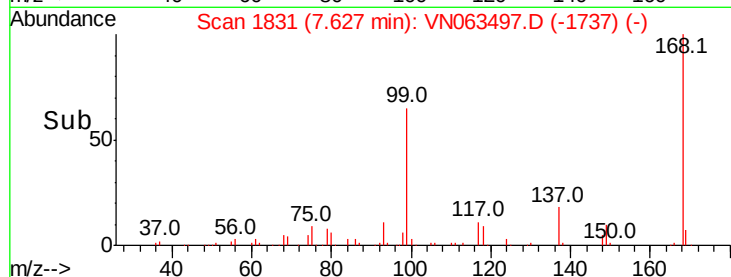
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 0.262 ug/l

RT: 4.73 min Scan# 931

Delta R.T. 0.00 min

Lab File: VN063497.D

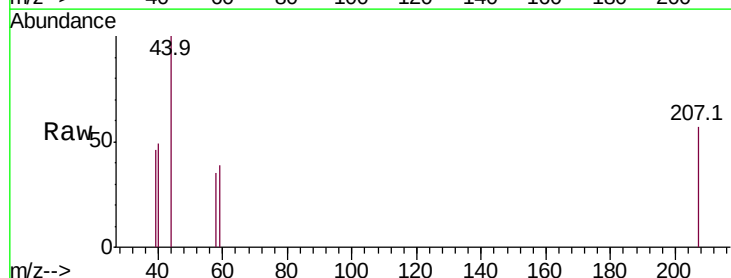
Acq: 21 Sep 2020 19:43

Tgt Ion: 59 Resp: 166

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.73

200

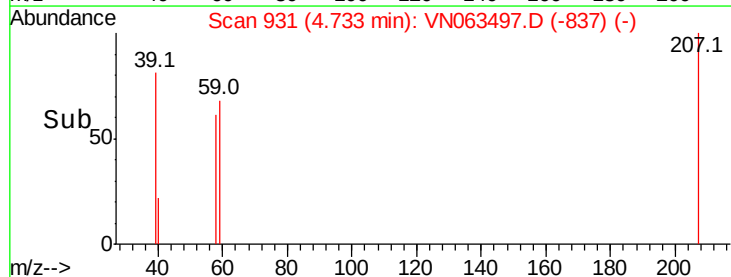
150

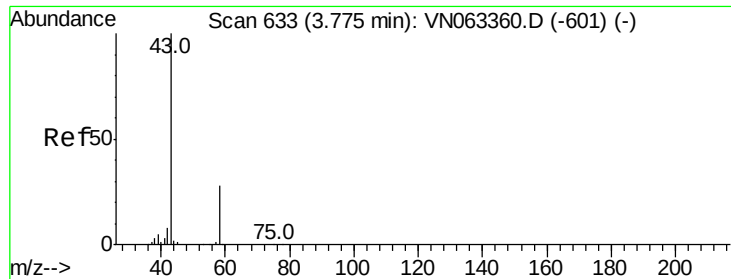
100

50

0

Time--> 4.71 4.72 4.73 4.74





#16

Acetone

Concen: 124.145 ug/l

RT: 3.77 min Scan# 632

Delta R.T. -0.00 min

Lab File: VN063497.D

Acq: 21 Sep 2020 19:43

Instrument :

MSVOA_N

ClientSampleId :

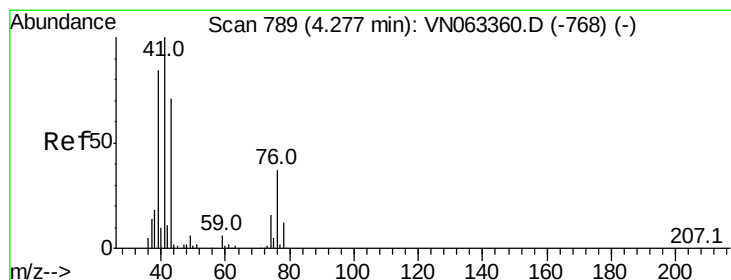
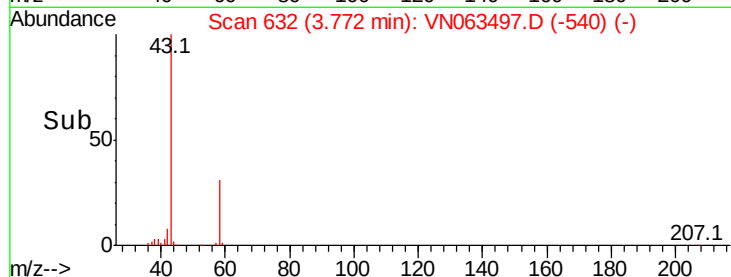
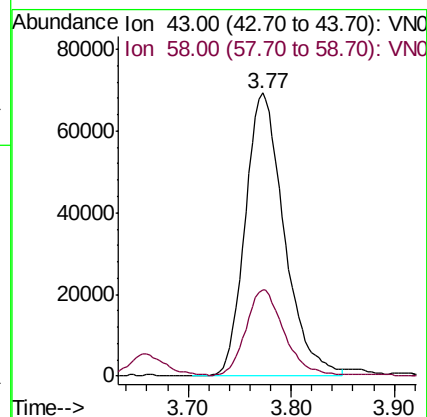
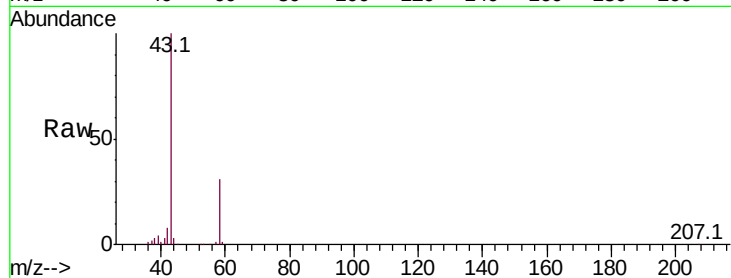
OR-02-091820

Tot Ion: 43 Resp: 182506

Ion Ratio Lower Upper

43 100

58 29.9 22.3 33.5



#18

Methyl Acetate

Concen: 0.932 ug/l

RT: 4.29 min Scan# 792

Delta R.T. 0.01 min

Lab File: VN063497.D

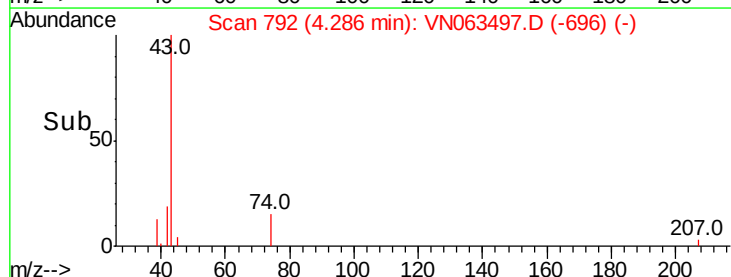
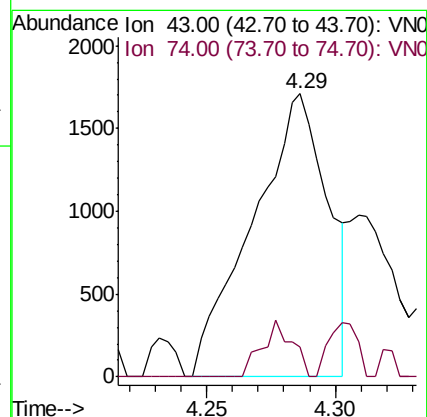
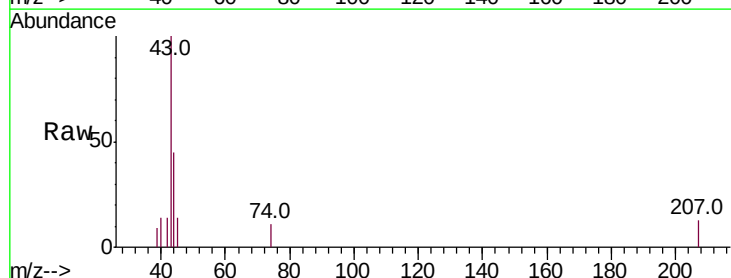
Acq: 21 Sep 2020 19:43

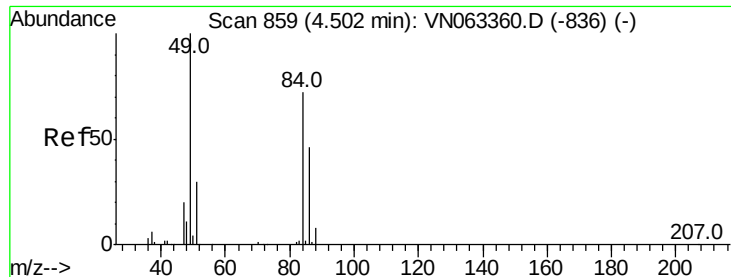
Tgt Ion: 43 Resp: 3477

Ion Ratio Lower Upper

43 100

74 8.0 17.4 26.2#





#20

Methvlene Chloride

Concen: 3.411 ug/l

RT: 4.51 min Scan# 860

Delta R.T. 0.00 min

Lab File: VN063497.D

Acq: 21 Sep 2020 19:43

Instrument :

MSVOA_N

ClientSampleId :

OR-02-091820

Tot Ion: 84 Resp: 12704

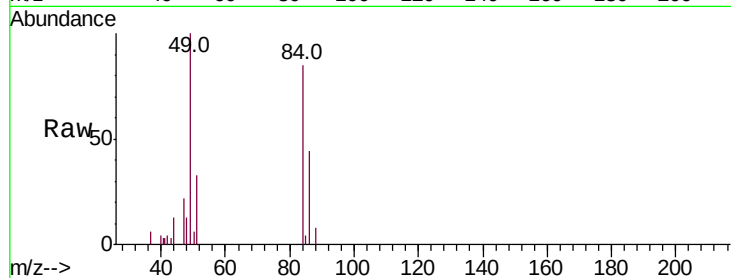
Ion Ratio Lower Upper

84 100

49 117.0 110.7 166.1

51 38.4 32.9 49.3

86 51.4 51.1 76.7

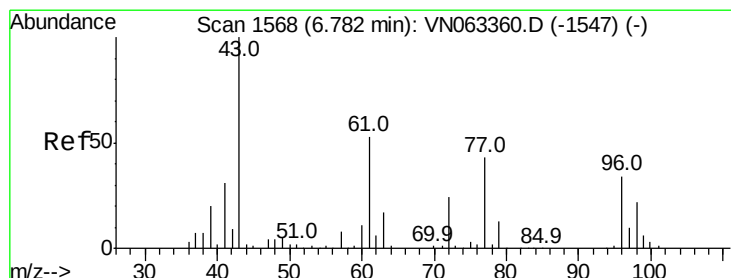
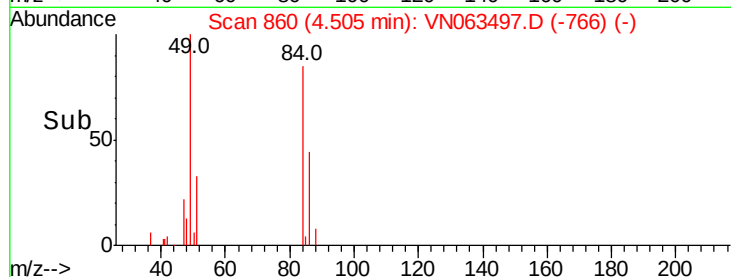
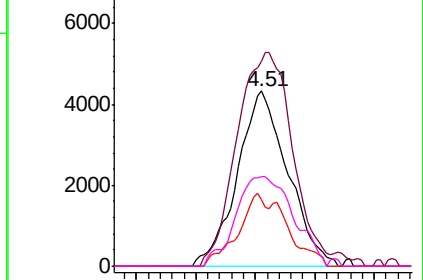


Abundance Ion 83.90 (83.60 to 84.60): VNO

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



#25

2-Butanone

Concen: 1.300 ug/l

RT: 6.79 min Scan# 1572

Delta R.T. 0.01 min

Lab File: VN063497.D

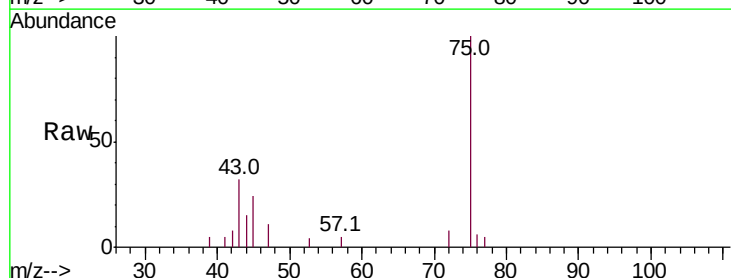
Acq: 21 Sep 2020 19:43

Tgt Ion: 43 Resp: 2939

Ion Ratio Lower Upper

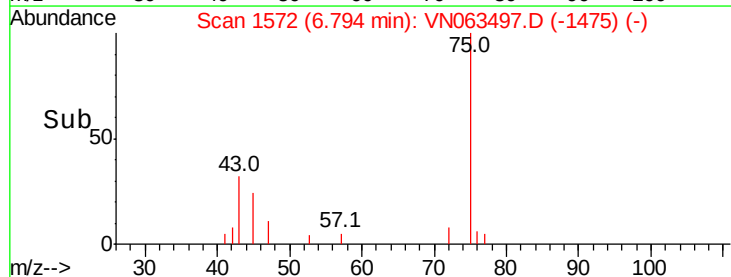
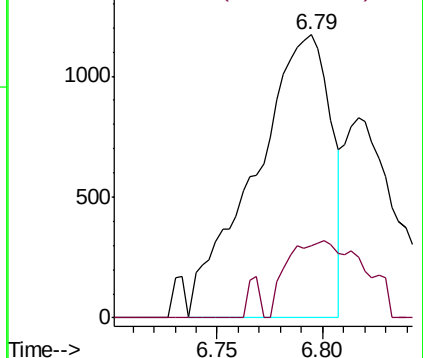
43 100

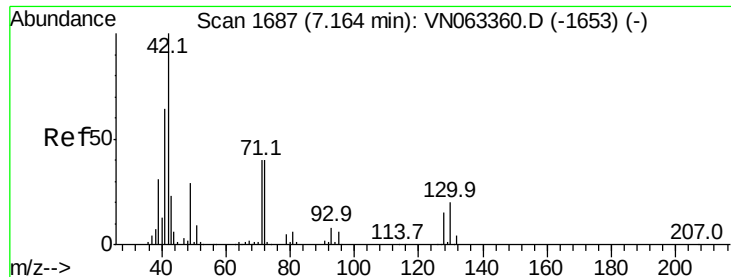
72 25.4 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 72.00 (71.70 to 72.70): VNO





#29

Tetrahydrofuran

Concen: 1.318 ug/l

RT: 7.17 min Scan# 1690

Delta R.T. 0.01 min

Lab File: VN063497.D

Acq: 21 Sep 2020 19:43

Instrument :

MSVOA_N

ClientSampleId :

OR-02-091820

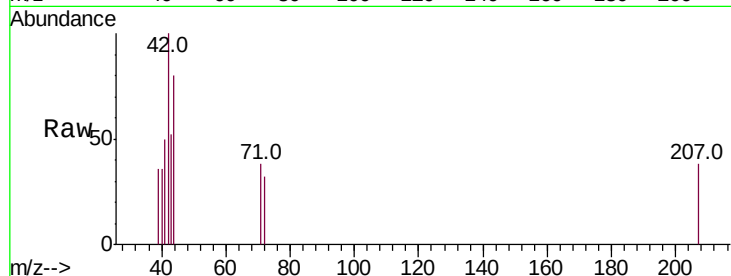
Tot Ion: 42 Resp: 2036

Ion Ratio Lower Upper

42 100

72 20.2 32.1 48.1#

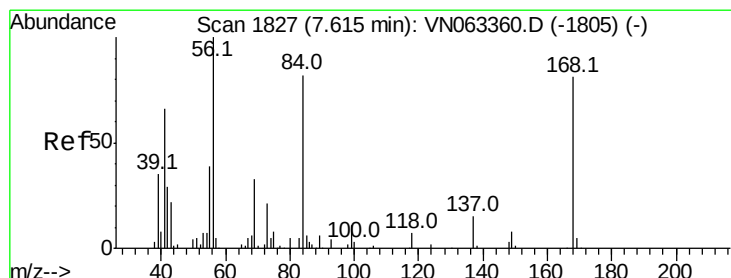
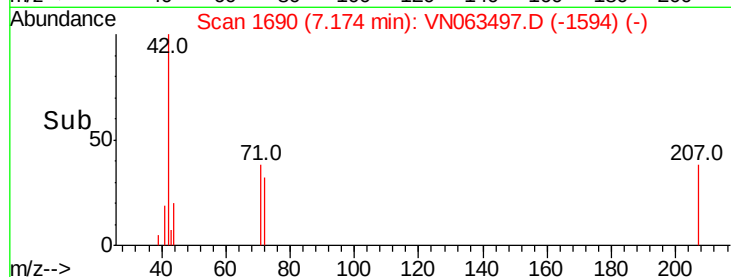
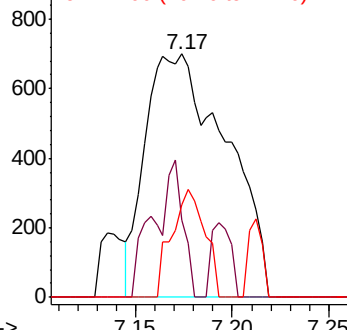
71 18.1 31.2 46.8#



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: 1.176 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. 0.02 min

Lab File: VN063497.D

Acq: 21 Sep 2020 19:43

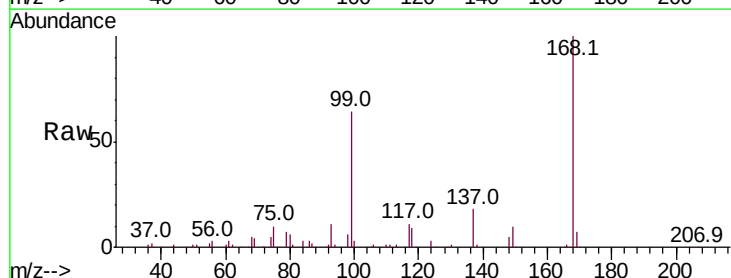
Tgt Ion: 56 Resp: 7427

Ion Ratio Lower Upper

56 100

69 153.0 26.1 39.1#

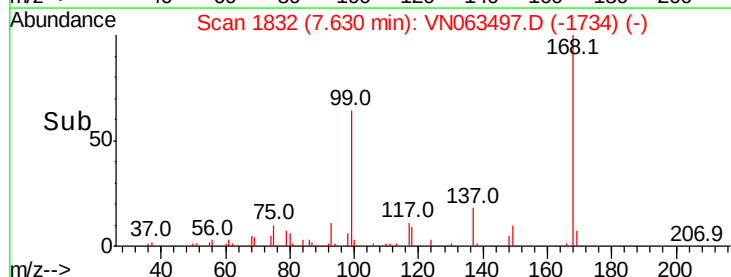
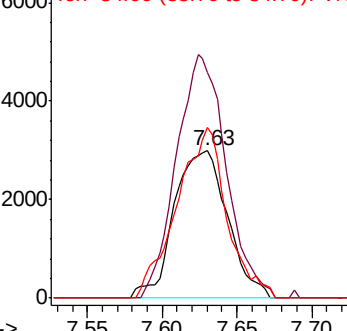
84 115.9 65.4 98.2#

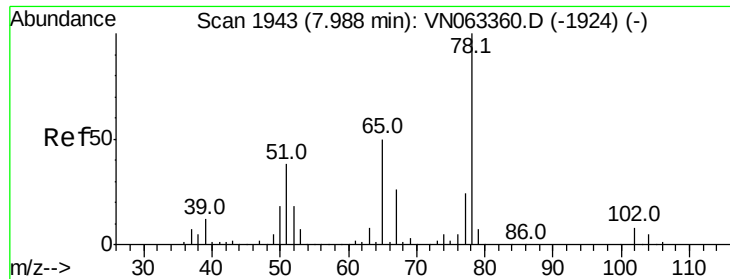


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0





#33

1,2-Dichloroethane-d4

Concen: 46.453 ug/l

RT: 7.99 min Scan# 1944

Delta R.T. 0.00 min

Lab File: VN063497.D

Acq: 21 Sep 2020 19:43

Instrument :

MSVOA_N

ClientSampleId :

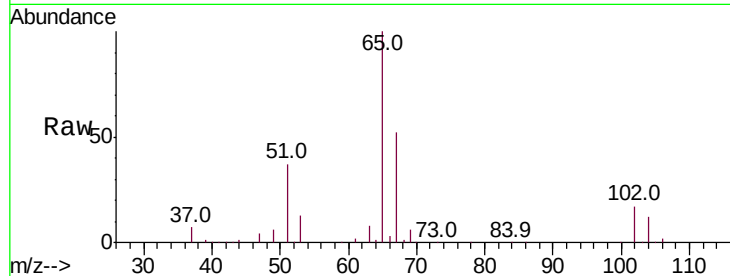
OR-02-091820

Tot Ion: 65 Resp: 212488

Ion Ratio Lower Upper

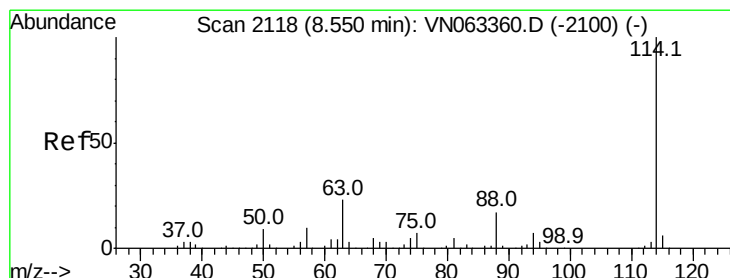
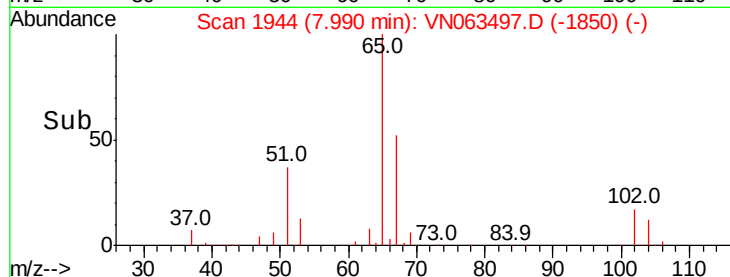
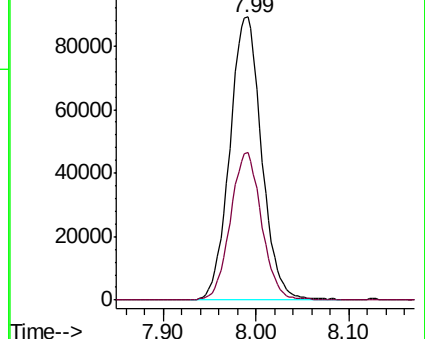
65 100

67 51.0 0.0 104.2



Abundance Ion 64.90 (64.60 to 65.60): VN063360.D (-1924) (-)

Ion 66.90 (66.60 to 67.60): VN063360.D (-1924) (-)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN063497.D

Acq: 21 Sep 2020 19:43

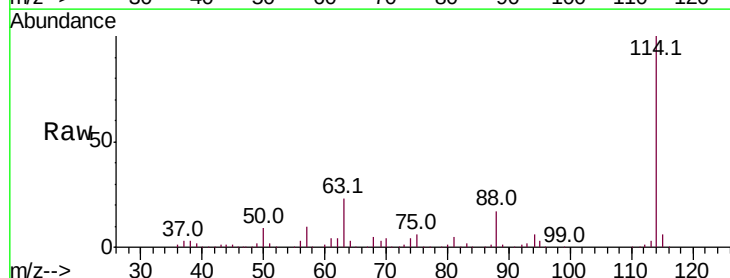
Tgt Ion: 114 Resp: 506182

Ion Ratio Lower Upper

114 100

63 23.3 0.0 46.4

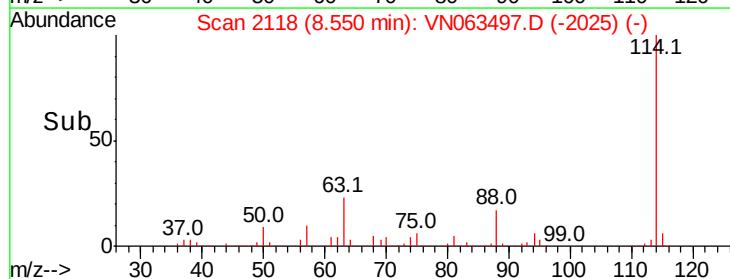
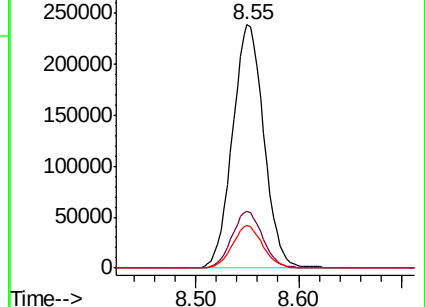
88 17.3 0.0 33.2

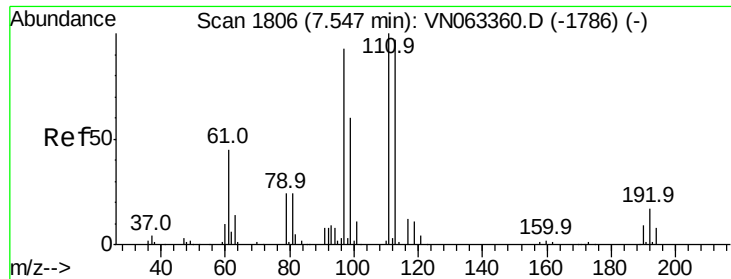


Abundance Ion 113.90 (113.60 to 114.60): VN063360.D (-2100) (-)

Ion 63.00 (62.70 to 63.70): VN063360.D (-2100) (-)

Ion 87.90 (87.60 to 88.60): VN063360.D (-2100) (-)

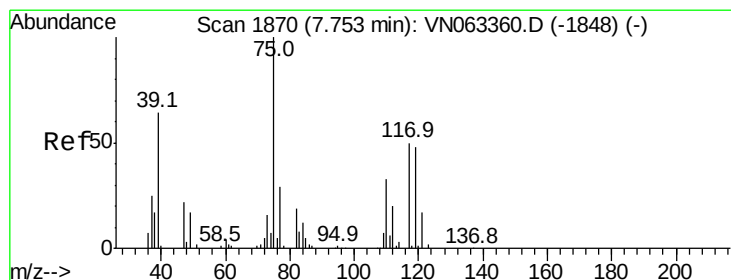
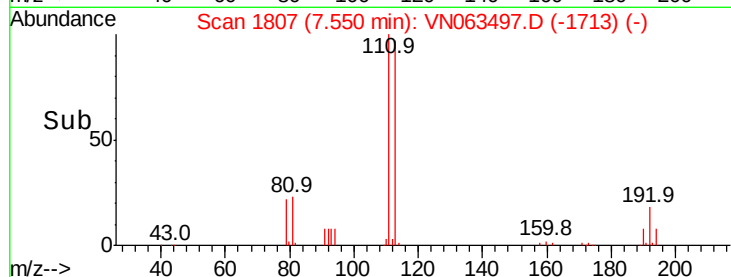
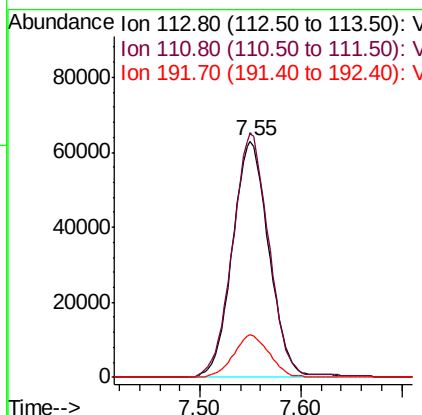
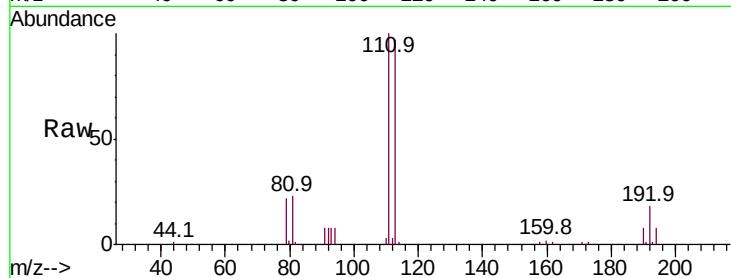




#35
 Dibromofluoromethane
 Concen: 45.190 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN063497.D
 Acq: 21 Sep 2020 19:43

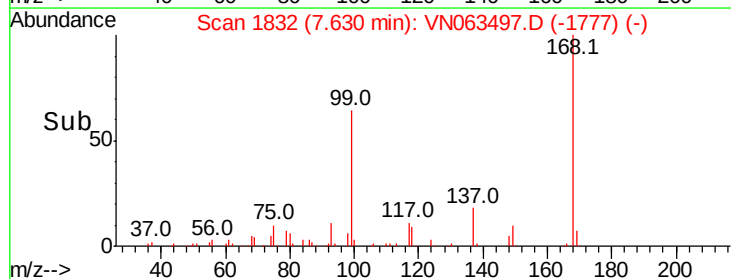
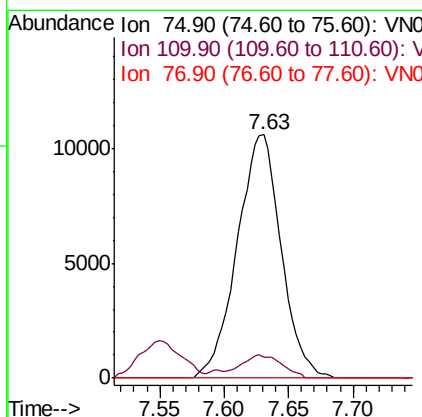
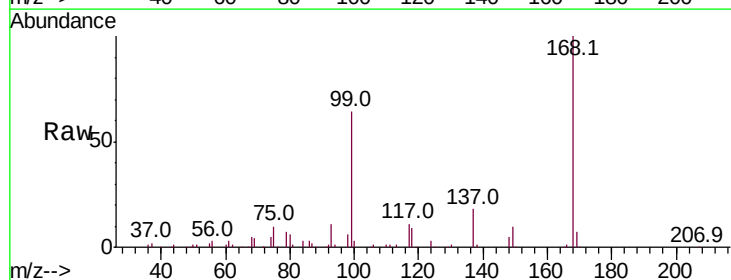
Instrument :
 MSVOA_N
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 OR-02-091820

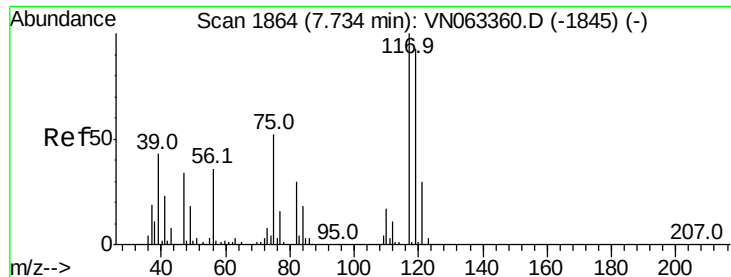
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.1	82.9	124.3
192	17.6	13.9	20.9



#36
 1,1-Dichloropropene
 Concen: 4.662 ug/l
 RT: 7.63 min Scan# 1832
 Delta R.T. -0.12 min
 Lab File: VN063497.D
 Acq: 21 Sep 2020 19:43

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.6	16.5	49.5#
77	0.0	24.6	36.8#





#38

Carbon Tetrachloride

Concen: 5.489 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. -0.10 min

Lab File: VN063497.D

Acq: 21 Sep 2020 19:43

Instrument :

MSVOA_N

ClientSampleId :

OR-02-091820

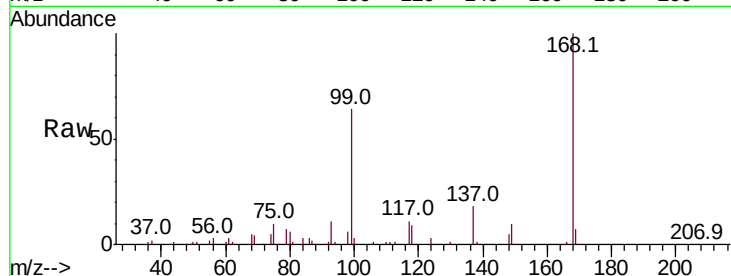
Tot Ion:117 Resp: 30218

Ion Ratio Lower Upper

117 100

119 4.4 74.5 111.7#

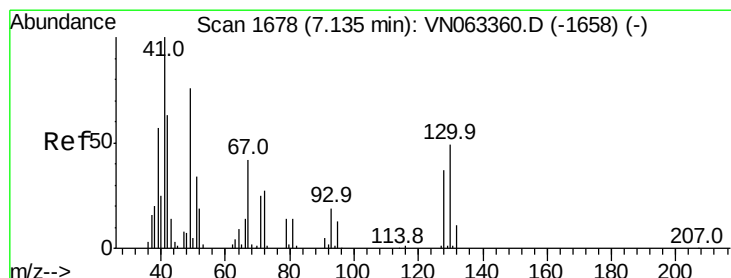
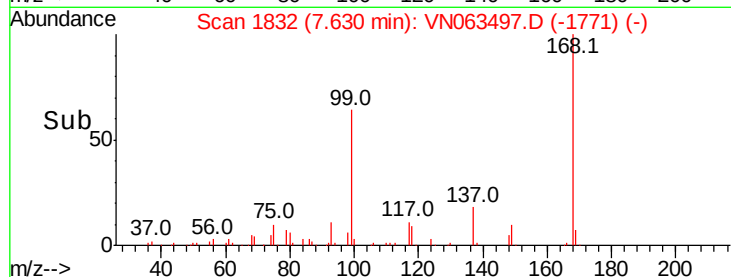
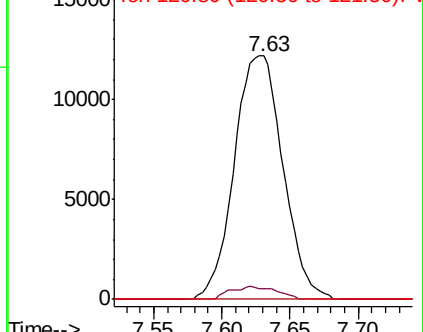
121 0.0 24.1 36.1#



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: 0.213 ug/l

RT: 7.16 min Scan# 1686

Delta R.T. 0.03 min

Lab File: VN063497.D

Acq: 21 Sep 2020 19:43

Tgt Ion: 41 Resp: 506

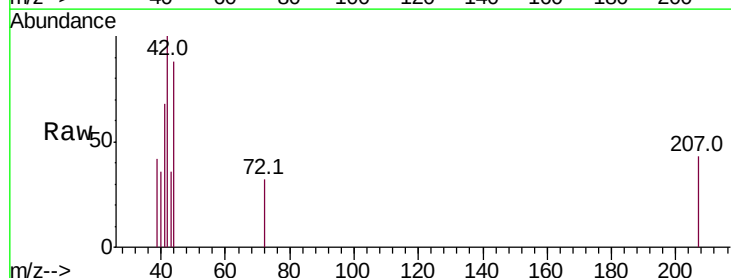
Ion Ratio Lower Upper

41 100

39 20.2 0.0 0.0#

67 0.0 0.0 0.0

52 0.0 0.0 0.0

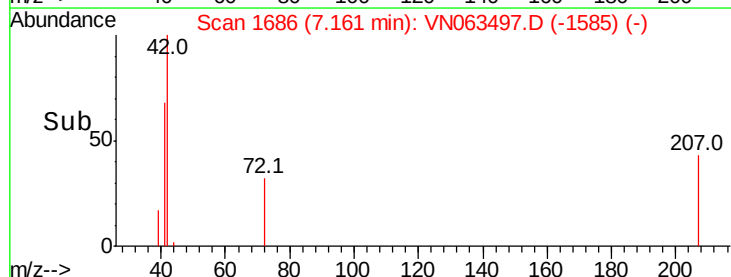
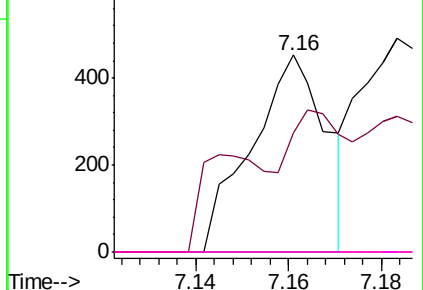


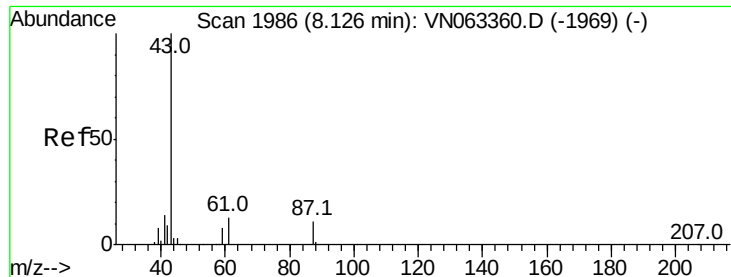
Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 67.00 (66.70 to 67.70): VN0

Ion 52.00 (51.70 to 52.70): VN0





#43

Isopropyl Acetate

Concen: 5.050 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VN063497.D

Acq: 21 Sep 2020 19:43

Instrument :

MSVOA_N

ClientSampled :

OR-02-091820

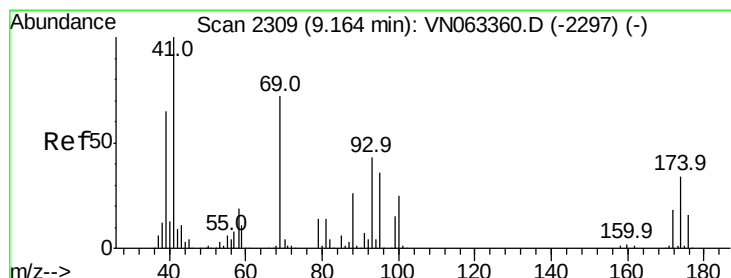
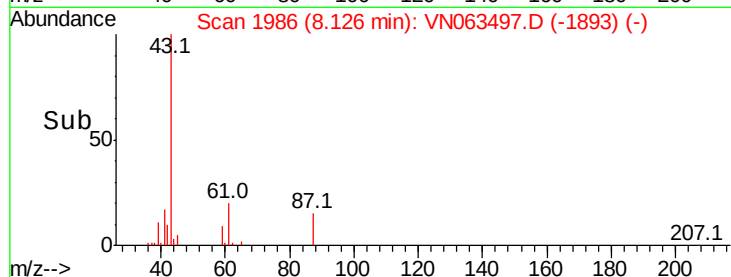
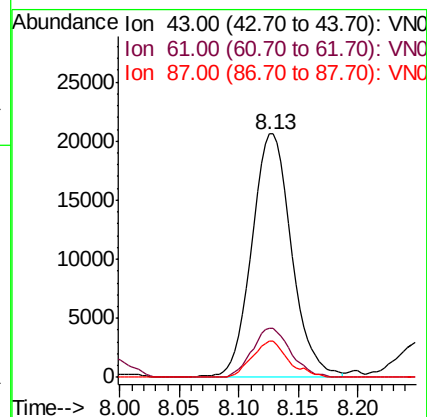
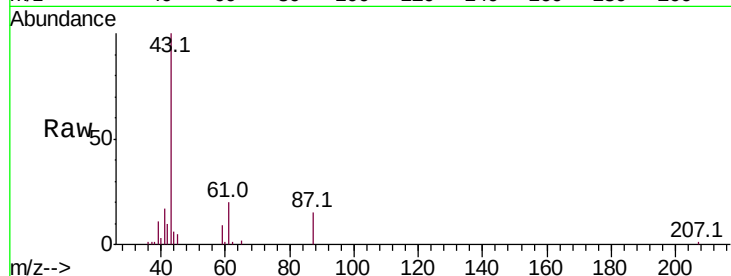
Tot Ion: 43 Resp: 47796

Ion Ratio Lower Upper

43 100

61 19.4 14.2 21.2

87 13.6 9.0 13.6#



#48

Methyl methacrylate

Concen: 1.073 ug/l

RT: 9.14 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN063497.D

Acq: 21 Sep 2020 19:43

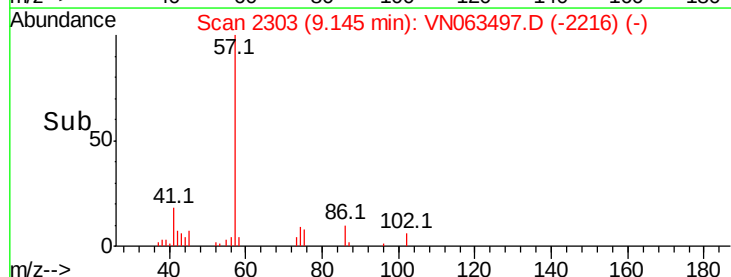
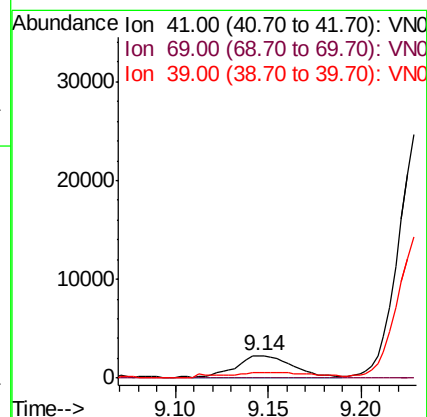
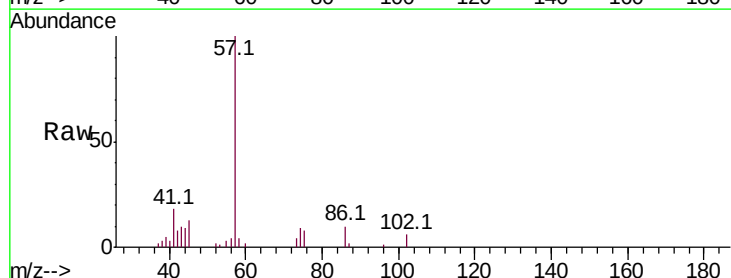
Tgt Ion: 41 Resp: 4991

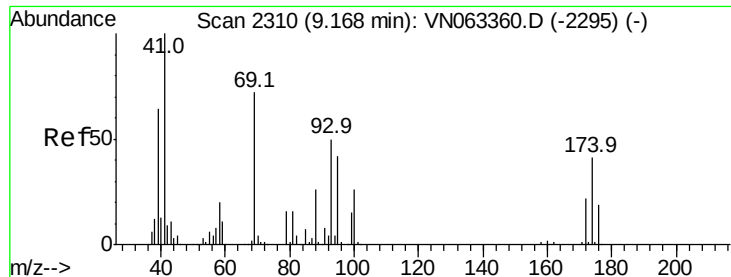
Ion Ratio Lower Upper

41 100

69 0.0 59.3 88.9#

39 0.0 52.9 79.3#





#49

1,4-Dioxane

Concen: 0.944 ug/l

RT: 9.39 min Scan# 2378

Delta R.T. 0.22 min

Lab File: VN063497.D

Acq: 21 Sep 2020 19:43

Instrument :

MSVOA_N

ClientSampleId :

OR-02-091820

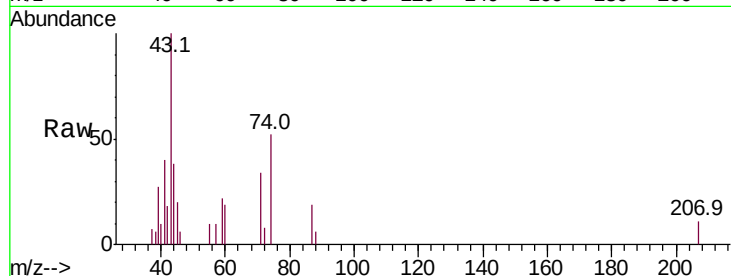
Tot Ion: 88 Resp: 63

Ion Ratio Lower Upper

88 100

43 0.0 32.6 49.0#

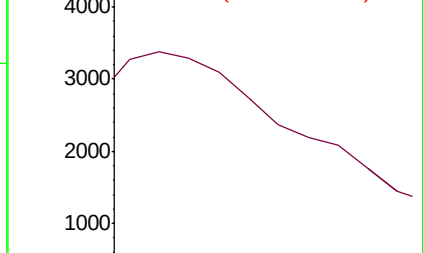
58 0.0 60.0 90.0#



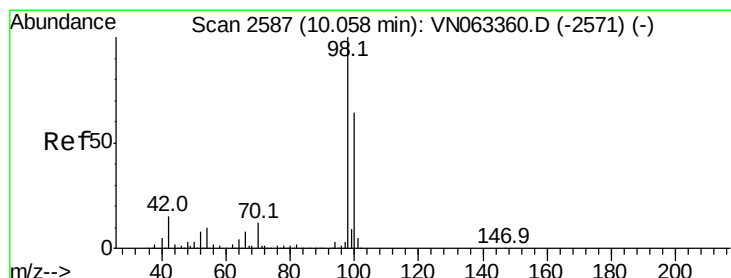
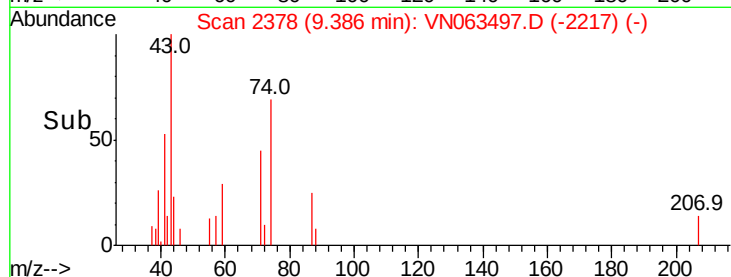
Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time-->



#50

Toluene-d8

Concen: 48.932 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN063497.D

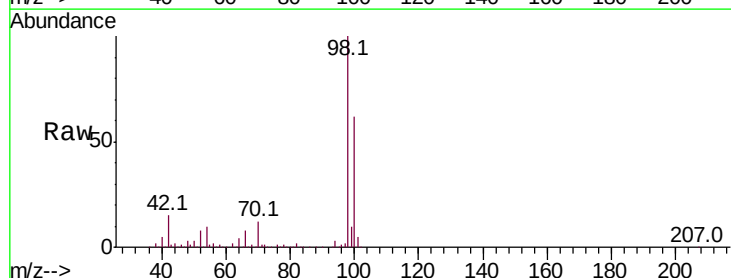
Acq: 21 Sep 2020 19:43

Tgt Ion: 98 Resp: 644745

Ion Ratio Lower Upper

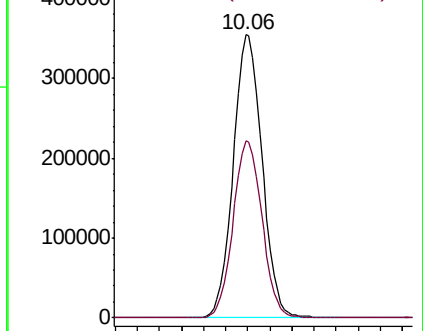
98 100

100 62.8 50.7 76.1

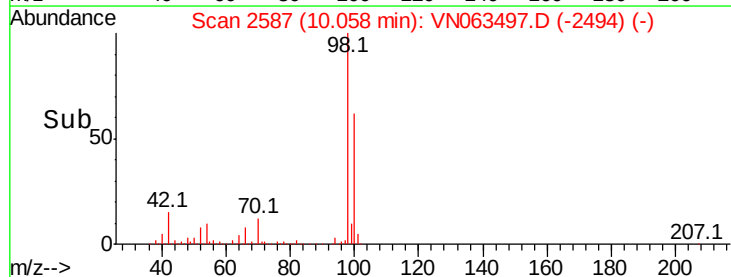


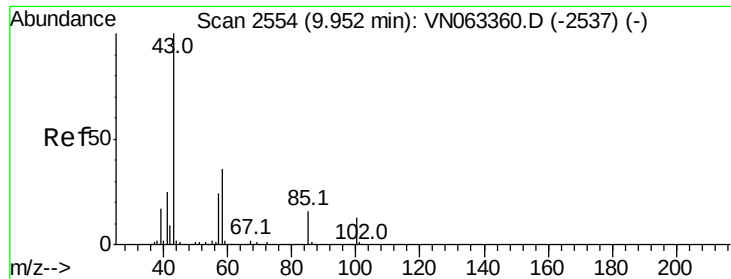
Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0



Time-->

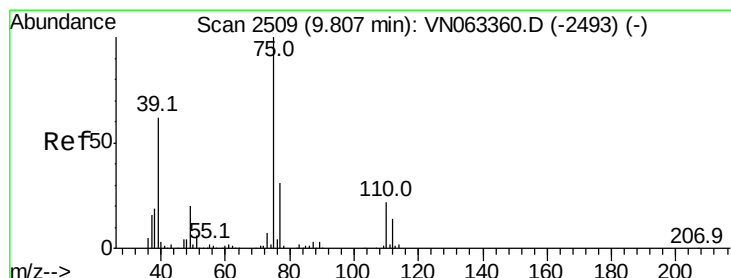
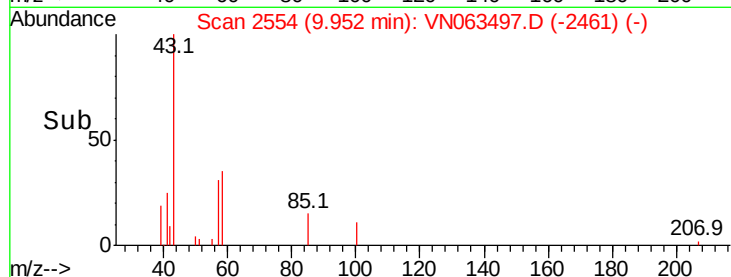
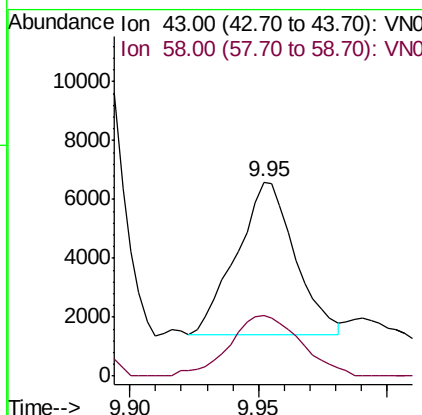
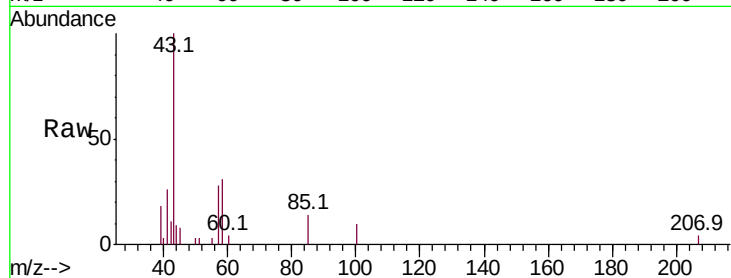




#51
 4-Methyl-2-Pentanone
 Concen: 1.547 ug/l
 RT: 9.95 min Scan# 2554
 Delta R.T. -0.00 min
 Lab File: VN063497.D
 Acq: 21 Sep 2020 19:43

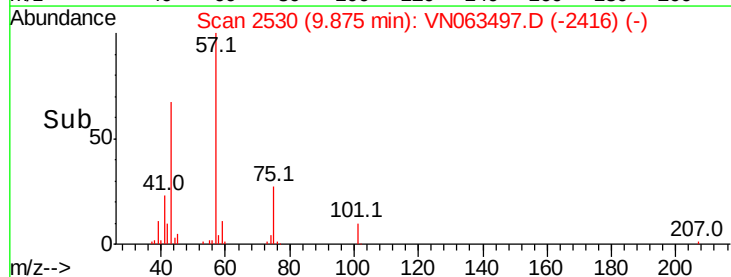
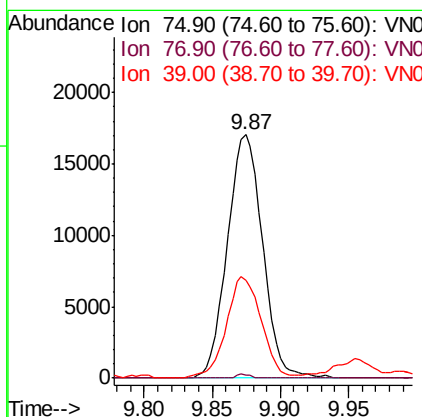
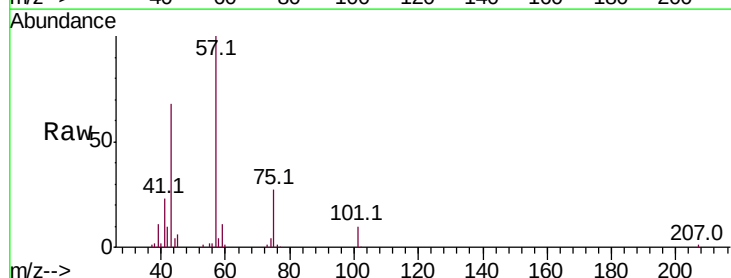
Instrument :
 MSVOA_N
 ClientSampleId :
 OR-02-091820

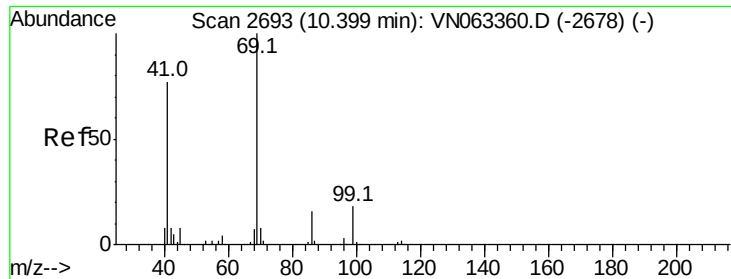
Tot Ion: 43 Resp: 8198
 Ion Ratio Lower Upper
 43 100
 58 48.5 29.0 43.6#



#54
 cis-1,3-Dichloropropene
 Concen: 4.548 ug/l
 RT: 9.87 min Scan# 2530
 Delta R.T. 0.07 min
 Lab File: VN063497.D
 Acq: 21 Sep 2020 19:43

Tgt Ion: 75 Resp: 30660
 Ion Ratio Lower Upper
 75 100
 77 1.4 24.6 37.0#
 39 39.1 49.8 74.8#





#56

Ethyl methacrylate

Concen: 0.201 ug/l

RT: 10.51 min Scan# 2729

Delta R.T. 0.12 min

Lab File: VN063497.D

Acq: 21 Sep 2020 19:43

Instrument :

MSVOA_N

ClientSampleId :

OR-02-091820

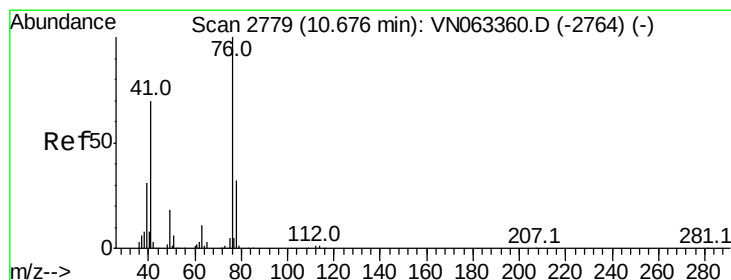
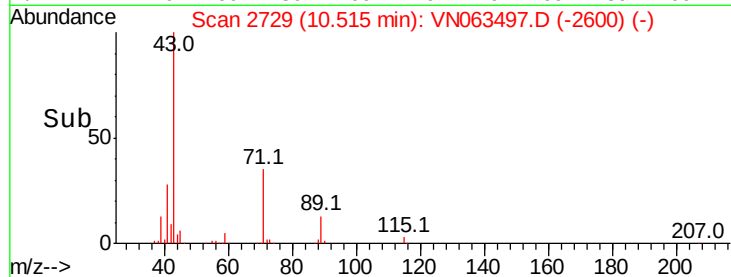
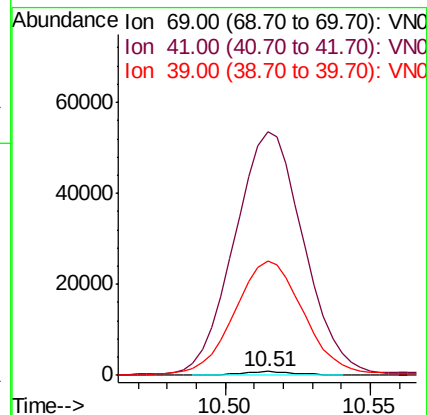
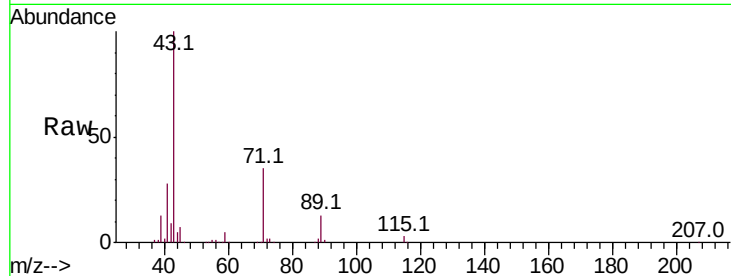
Tot Ion: 69 Resp: 1152

Ion Ratio Lower Upper

69 100

41 7826.0 61.0 91.6#

39 3699.6 39.2 58.8#



#57

1,3-Dichloropropane

Concen: 0.564 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063497.D

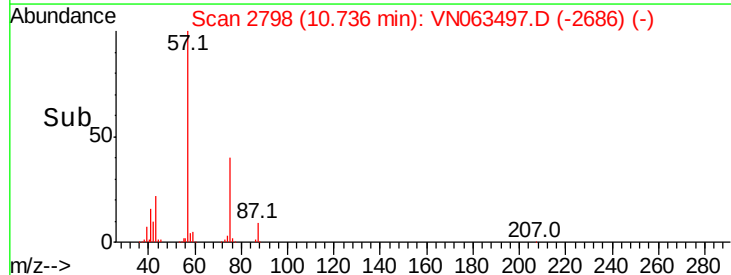
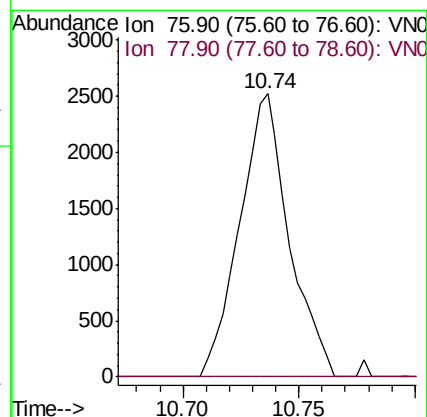
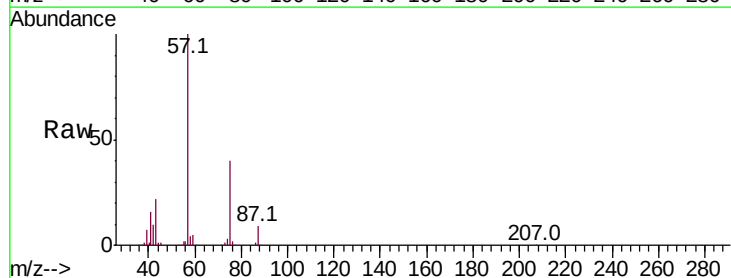
Acq: 21 Sep 2020 19:43

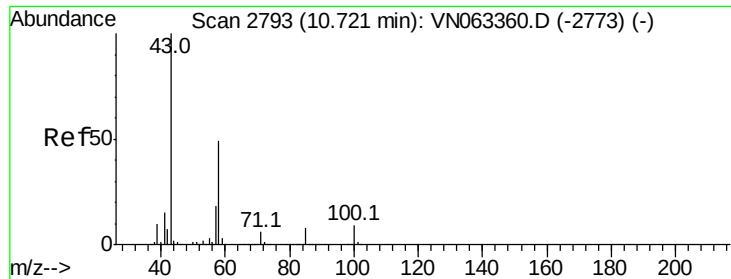
Tgt Ion: 76 Resp: 3738

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#





#59

2-Hexanone

Concen: 15.212 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063497.D

Acq: 21 Sep 2020 19:43

Instrument :

MSVOA_N

ClientSampleId :

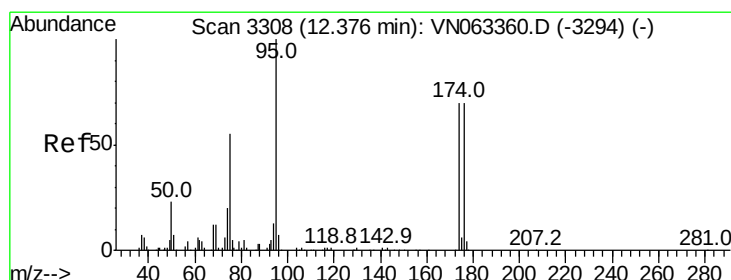
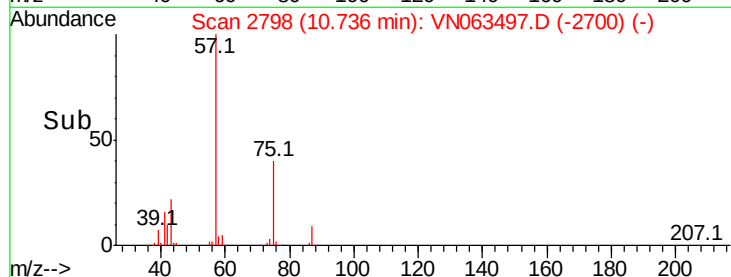
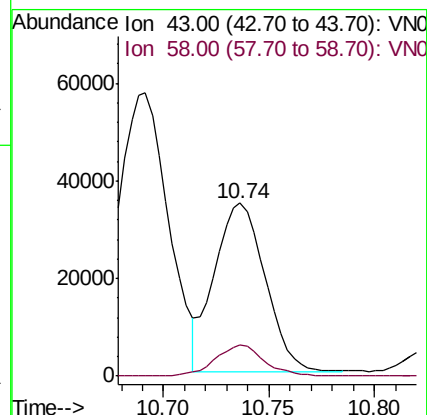
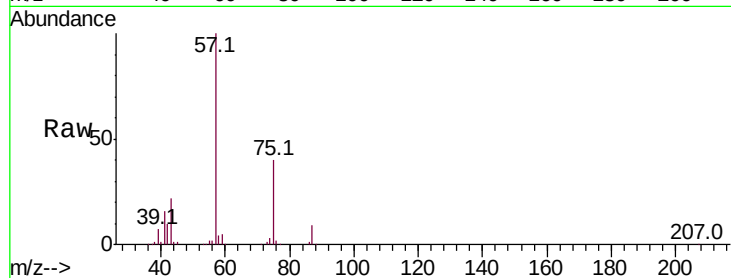
OR-02-091820

Tot Ion: 43 Resp: 58391

Ion Ratio Lower Upper

43 100

58 17.7 24.7 74.1#



#62

4-Bromofluorobenzene

Concen: 54.288 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063497.D

Acq: 21 Sep 2020 19:43

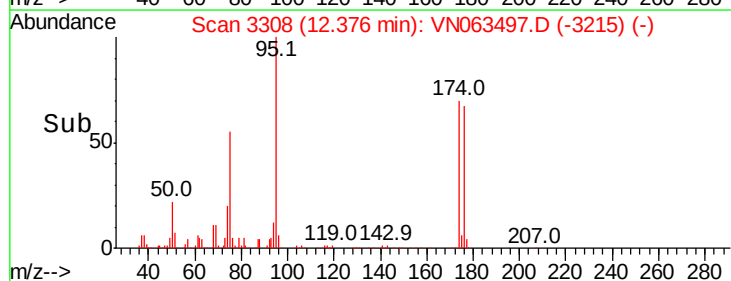
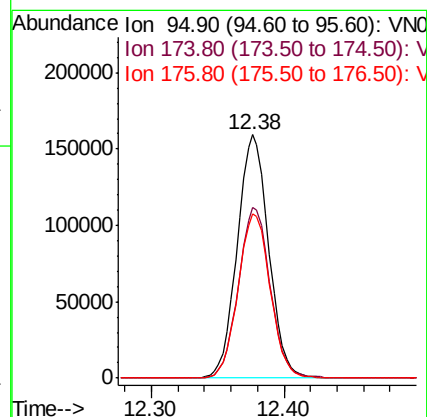
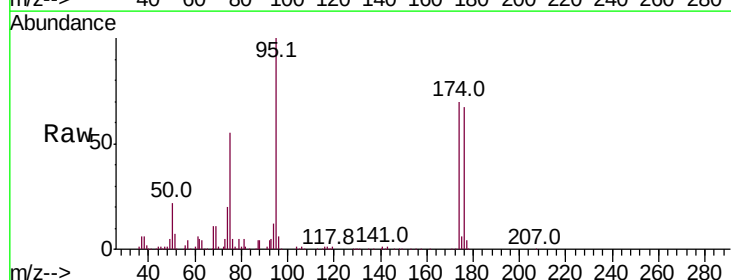
Tgt Ion: 95 Resp: 262225

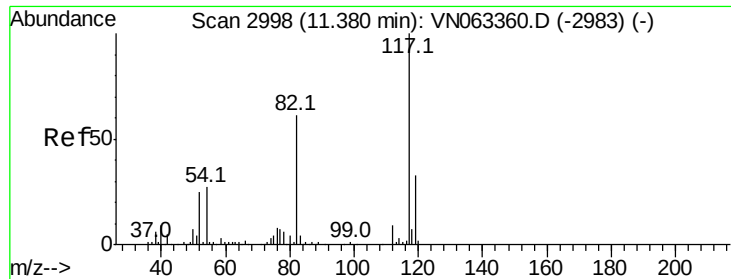
Ion Ratio Lower Upper

95 100

174 71.2 0.0 140.8

176 69.2 0.0 137.6

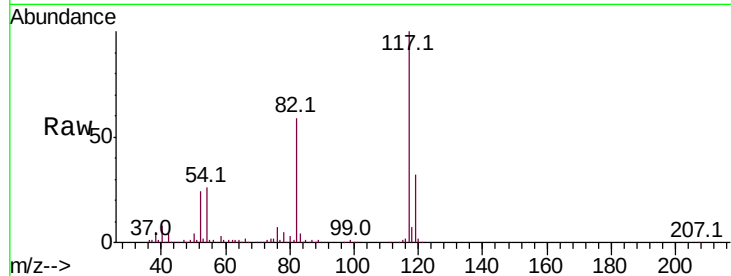




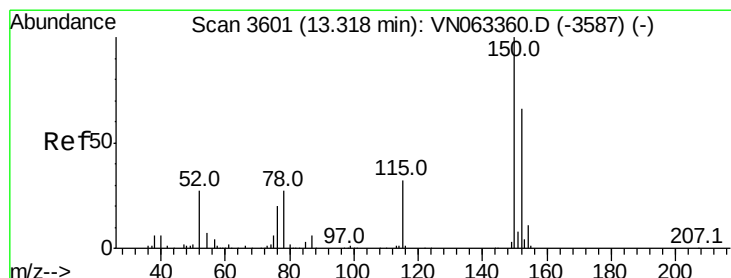
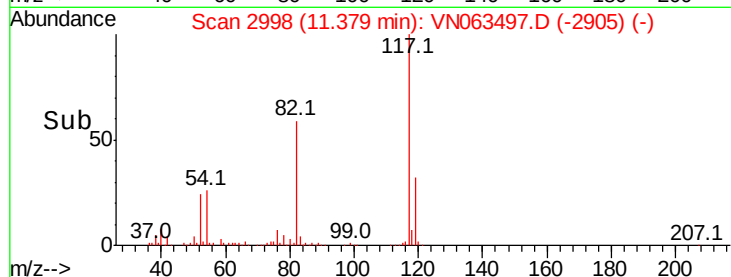
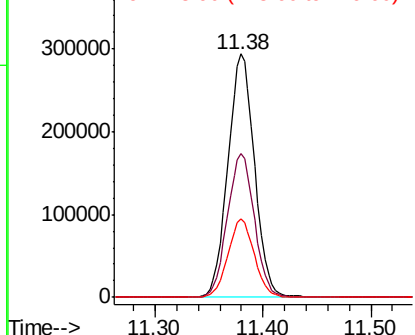
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063497.D
Acq: 21 Sep 2020 19:43

Instrument :
MSVOA_N
ClientSampleId :
OR-02-091820

Tot Ion:117 Resp: 505775
Ion Ratio Lower Upper
117 100
82 59.1 49.2 73.8
119 32.0 26.2 39.4

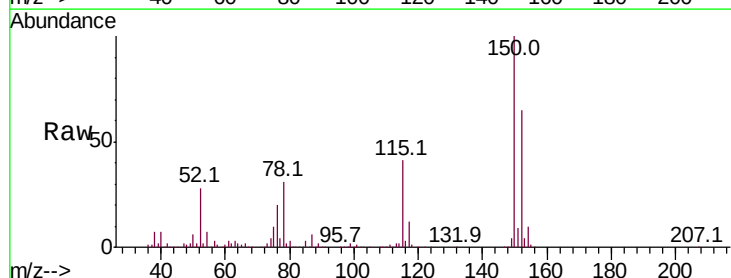


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

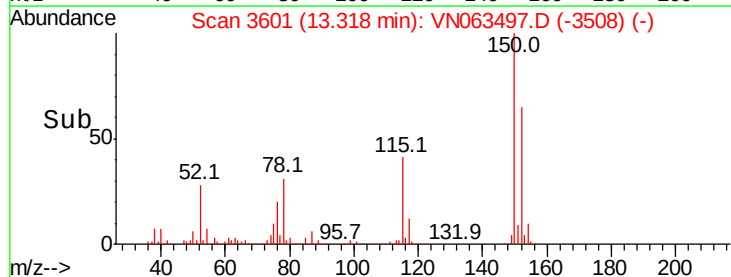
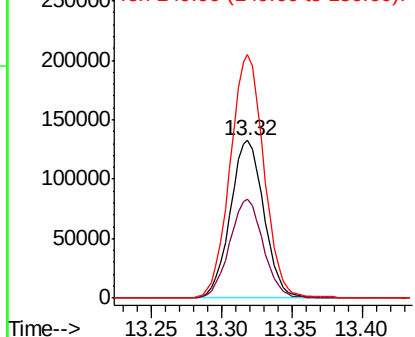


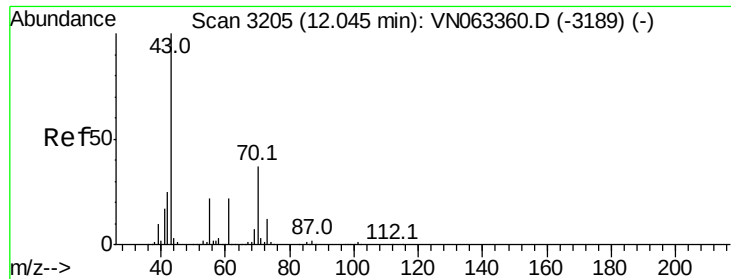
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. -0.00 min
Lab File: VN063497.D
Acq: 21 Sep 2020 19:43

Tgt Ion:152 Resp: 221664
Ion Ratio Lower Upper
152 100
115 62.7 32.2 96.6
150 155.3 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-amvl acetate

Concen: 0.525 ug/l

RT: 12.01 min Scan# 3193

Delta R.T. -0.04 min

Lab File: VN063497.D

Acq: 21 Sep 2020 19:43

Instrument :

MSVOA_N

ClientSampleId :

OR-02-091820

Tot Ion: 43 Resp: 4414

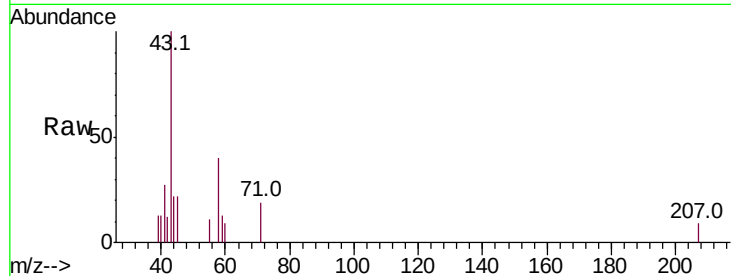
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 5.0 17.7 26.5#

61 0.0 17.4 26.2#

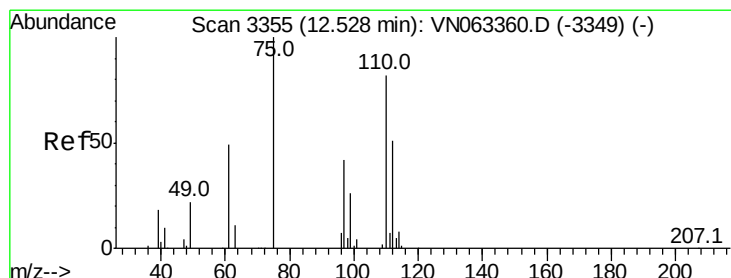
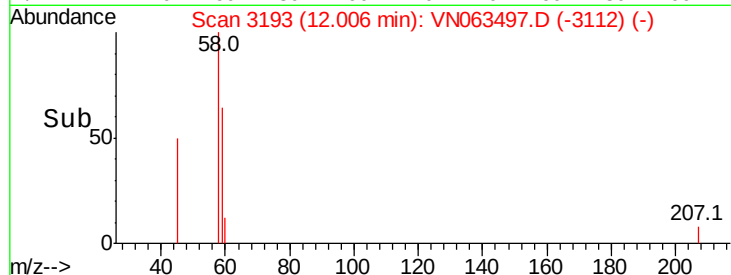
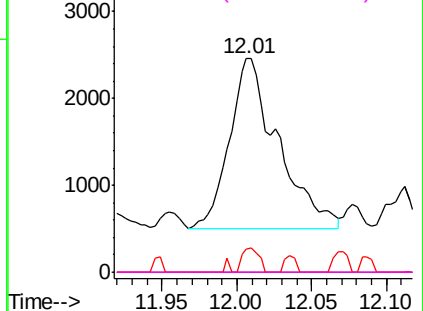


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 26.752 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063497.D

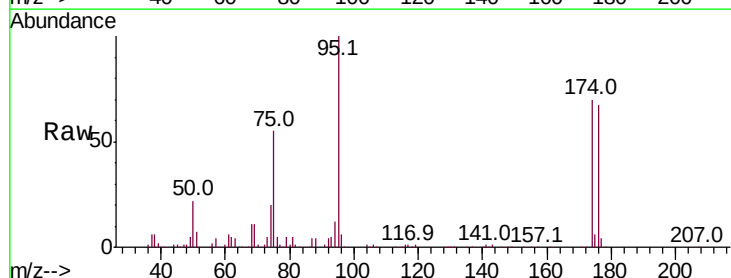
Acq: 21 Sep 2020 19:43

Tgt Ion: 75 Resp: 146772

Ion Ratio Lower Upper

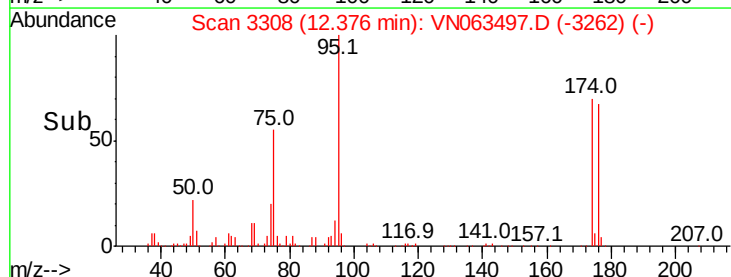
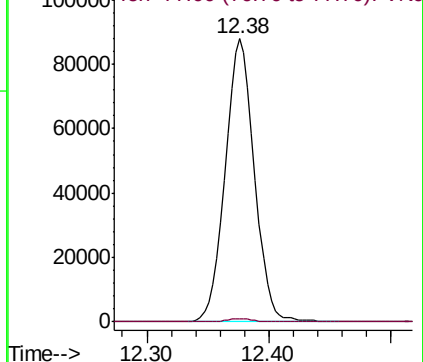
75 100

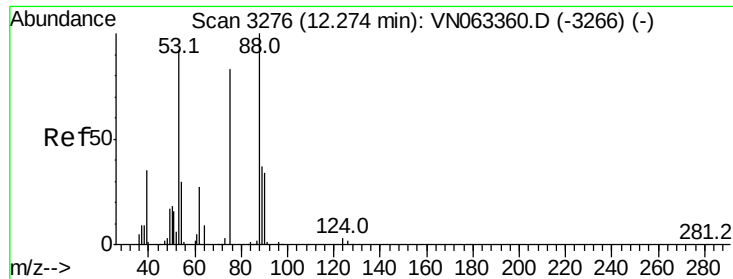
77 1.0 0.0 0.0#



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: 73.343 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063497.D

Acq: 21 Sep 2020 19:43

Instrument :

MSVOA_N

ClientSampleId :

OR-02-091820

Tot Ion: 75 Resp: 146772

Ion Ratio Lower Upper

75 100

53 0.0 85.7 128.5#

89 0.1 38.0 57.0#

