

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092920\
 Data File : VN063734.D
 Acq On : 29 Sep 2020 18:15
 Operator : JC/MD
 Sample : L3869-15
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 OR-03-092820

Quant Time: Sep 30 00:53:23 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	226983	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	408753	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	431192	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	183508	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	185707	48.06	ug/l	0.00
Spiked Amount			Recovery	=	96.12%	
35) Dibromofluoromethane	7.55	113	137175	48.48	ug/l	0.00
Spiked Amount			Recovery	=	96.96%	
50) Toluene-d8	10.06	98	535982	50.37	ug/l	0.00
Spiked Amount			Recovery	=	100.74%	
62) 4-Bromofluorobenzene	12.38	95	216537	55.51	ug/l	0.00
Spiked Amount			Recovery	=	111.02%	

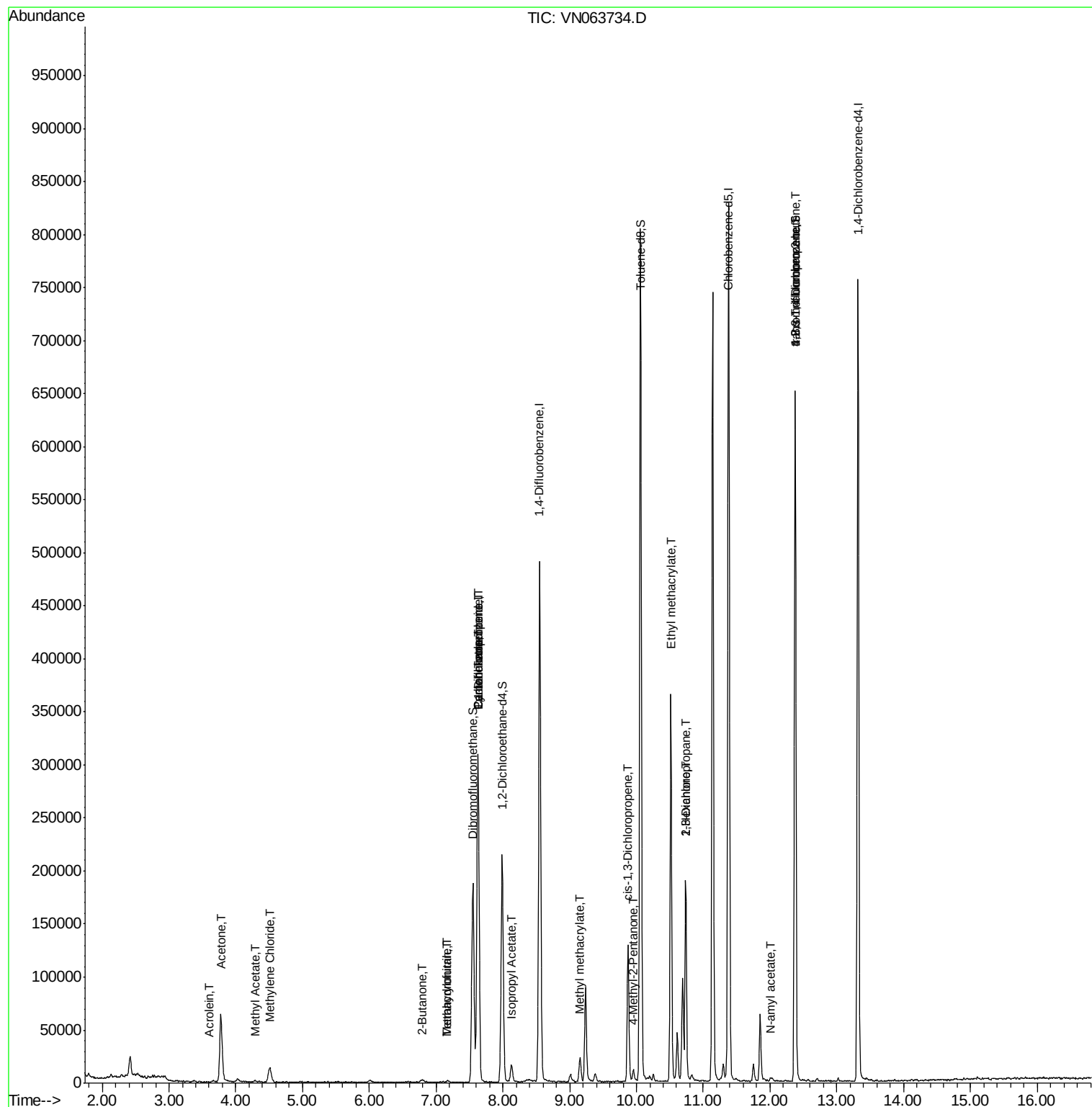
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.60	56	62	0.313	ug/l #	13
16) Acetone	3.78	43	108389	87.285	ug/l	100
18) Methyl Acetate	4.28	43	2934	0.931	ug/l #	78
20) Methylene Chloride	4.51	84	9319	2.962	ug/l	90
25) 2-Butanone	6.78	43	515	0.270	ug/l #	51
29) Tetrahydrofuran	7.17	42	487	0.373	ug/l #	65
31) Cyclohexane	7.62	56	6994	1.311	ug/l #	47
36) 1,1-Dichloropropene	7.63	75	20263	4.653	ug/l #	52
38) Carbon Tetrachloride	7.63	117	24657	5.547	ug/l #	18
41) Methacrylonitrile	7.17	41	777	0.404	ug/l #	100
43) Isopropyl Acetate	8.13	43	20492	2.681	ug/l #	96
48) Methyl methacrylate	9.14	41	3493	0.930	ug/l #	43
51) 4-Methyl-2-Pentanone	9.96	43	6556	1.532	ug/l	89
54) cis-1,3-Dichloropropene	9.88	75	21223	3.899	ug/l #	63
56) Ethyl methacrylate	10.51	69	1398	0.302	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	2020	0.377	ug/l #	42
59) 2-Hexanone	10.74	43	31101	10.034	ug/l #	53
74) N-amyl acetate	12.01	43	2864	0.411	ug/l #	48
76) 1,2,3-Trichloropropane	12.38	75	125317	27.590	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	125317	75.642	ug/l #	7

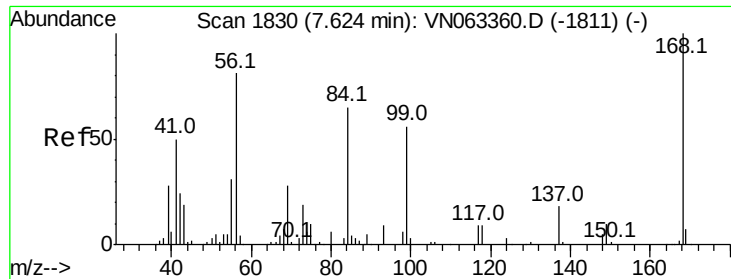
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Sep 16 13:05:20 2020
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: VN063734.D

Acq: 29 Sep 2020 18:15

Instrument :

MSVOA_N

ClientSampleId :

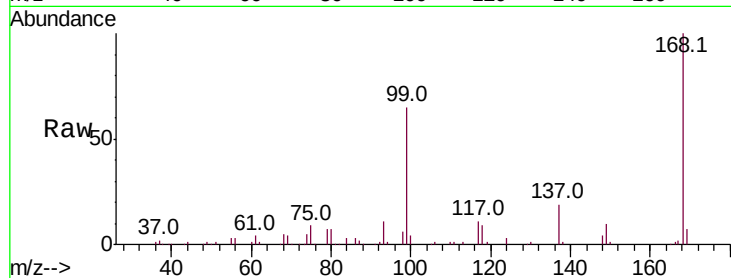
OR-03-092820

Tot Ion:168 Resp: 226983

Ion Ratio Lower Upper

168 100

99 64.9 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

100000

80000

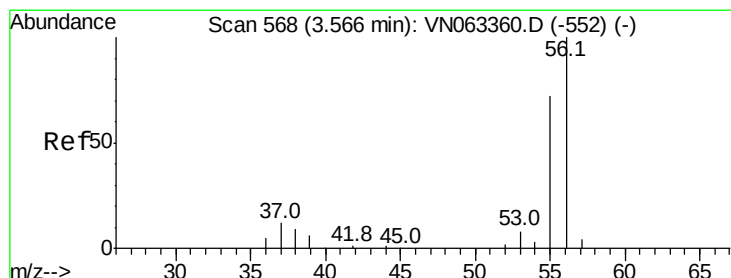
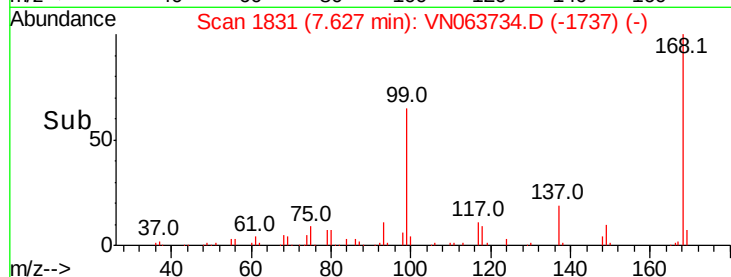
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#13

Acrolein

Concen: 0.313 ug/l

RT: 3.60 min Scan# 580

Delta R.T. 0.04 min

Lab File: VN063734.D

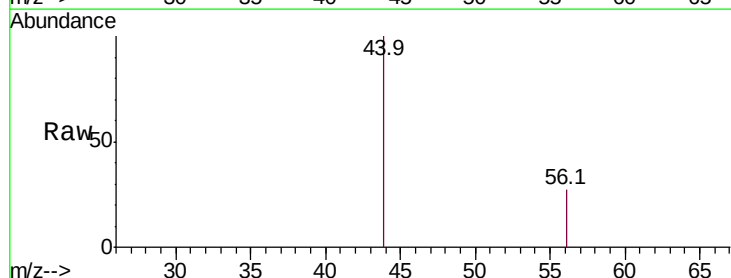
Acq: 29 Sep 2020 18:15

Tgt Ion: 56 Resp: 62

Ion Ratio Lower Upper

56 100

55 0.0 58.2 87.2#



Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

3.60

200

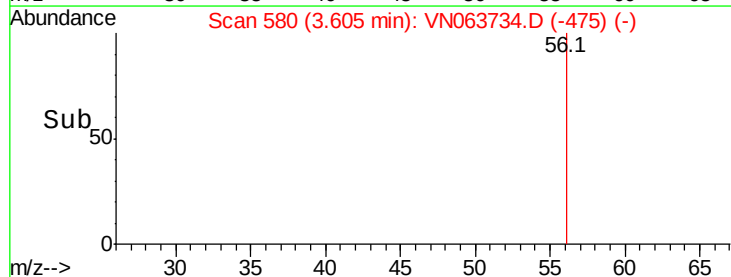
150

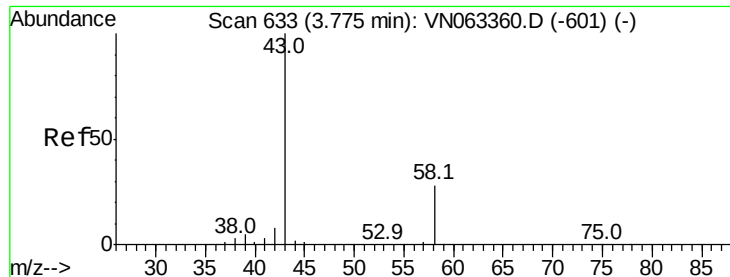
100

50

0

Time--> 3.59 3.60 3.61





#16

Acetone

Concen: 87.285 ug/l

RT: 3.78 min Scan# 633

Delta R.T. -0.00 min

Lab File: VN063734.D

Acq: 29 Sep 2020 18:15

Instrument :

MSVOA_N

ClientSampleId :

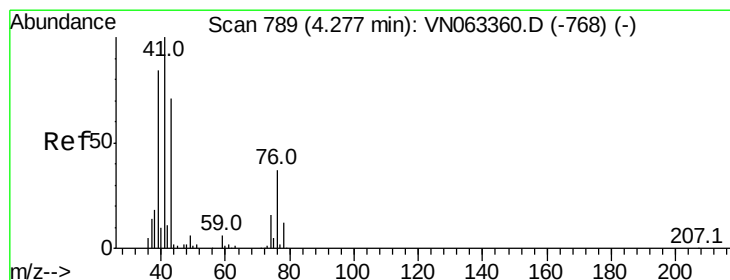
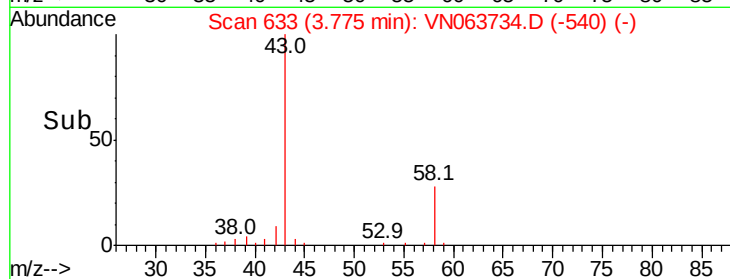
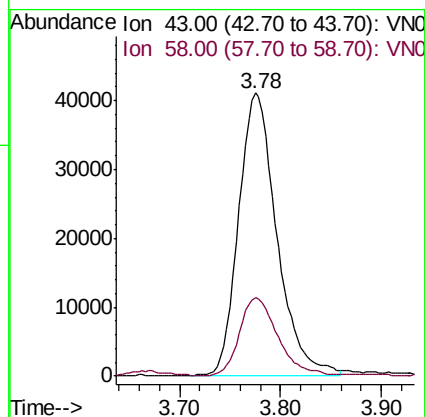
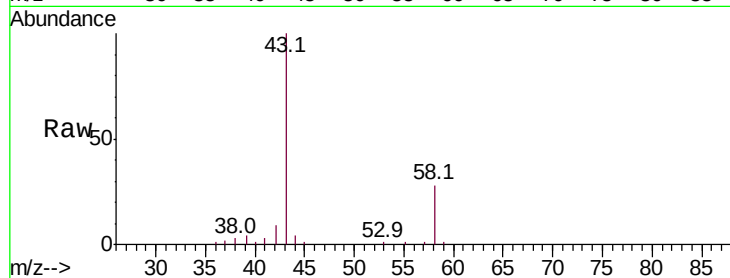
OR-03-092820

Tot Ion: 43 Resp: 108389

Ion Ratio Lower Upper

43 100

58 27.6 22.3 33.5



#18

Methyl Acetate

Concen: 0.931 ug/l

RT: 4.28 min Scan# 791

Delta R.T. 0.01 min

Lab File: VN063734.D

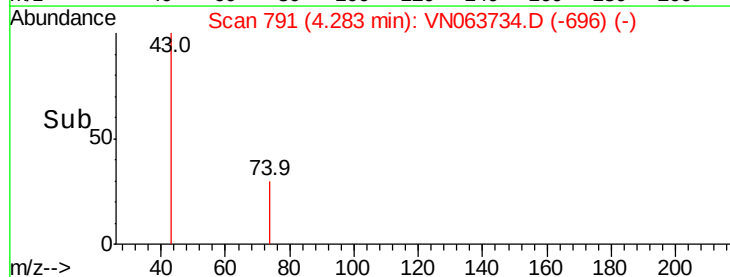
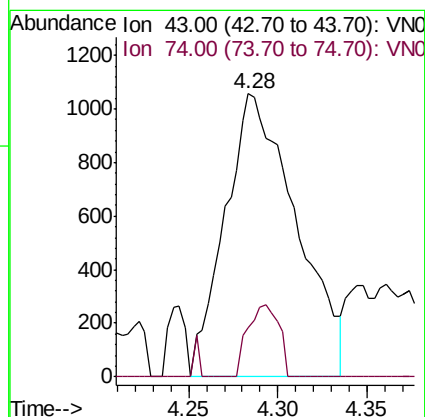
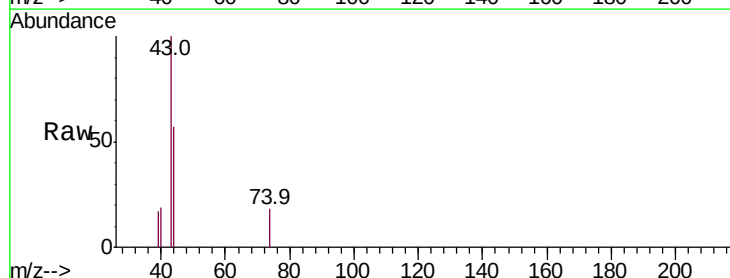
Acq: 29 Sep 2020 18:15

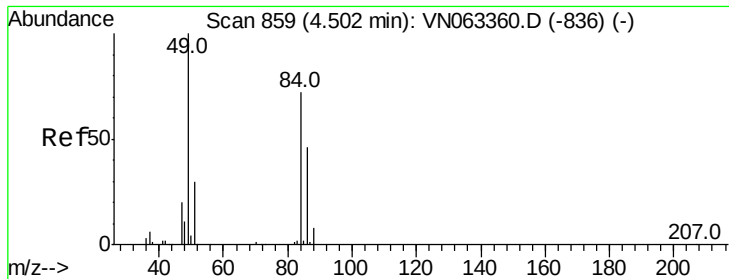
Tgt Ion: 43 Resp: 2934

Ion Ratio Lower Upper

43 100

74 11.1 17.4 26.2#

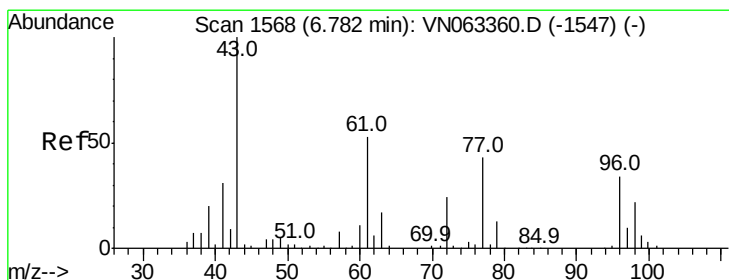
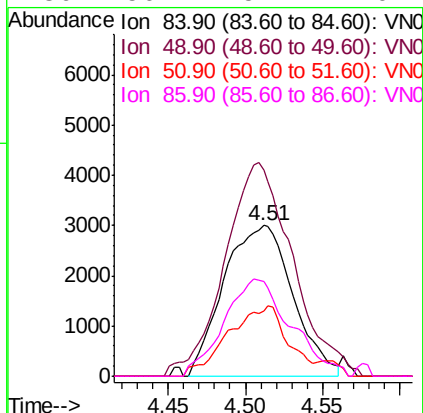
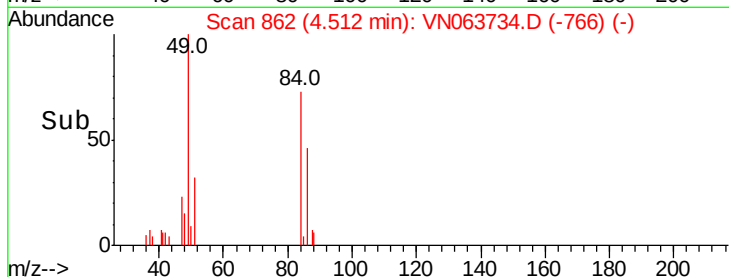
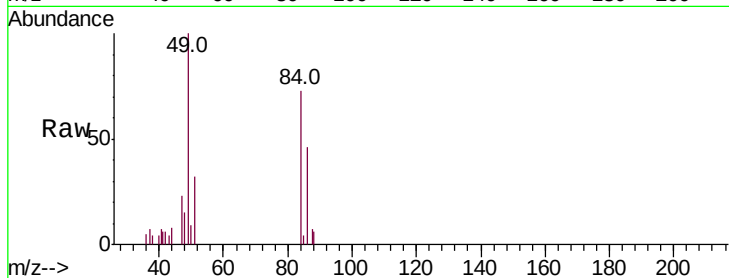




#20
Methylene Chloride
Concen: 2.962 ug/l
RT: 4.51 min Scan# 862
Delta R.T. 0.01 min
Lab File: VN063734.D
Acq: 29 Sep 2020 18:15

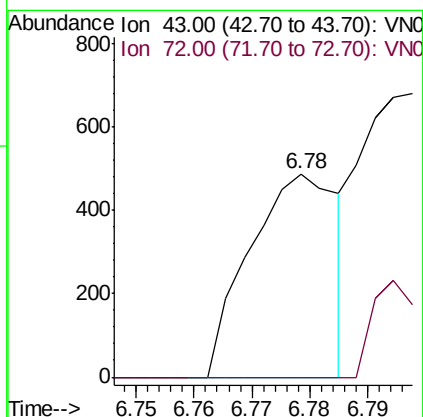
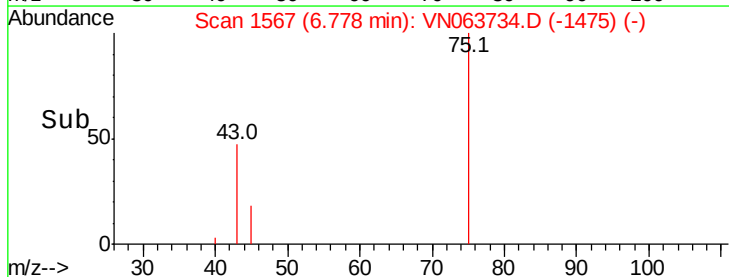
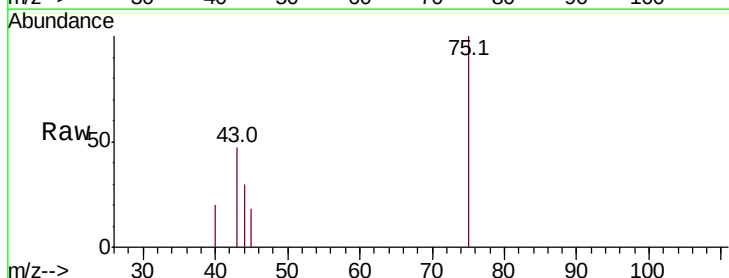
Instrument :
MSVOA_N
ClientSampleId :
OR-03-092820

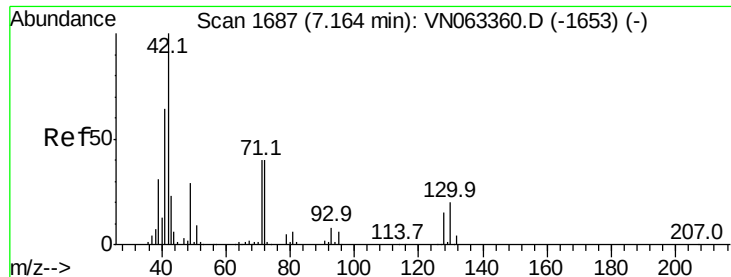
Tot Ion: 84 Resp: 9319
Ion Ratio Lower Upper
84 100
49 125.2 110.7 166.1
51 37.8 32.9 49.3
86 56.2 51.1 76.7



#25
2-Butanone
Concen: 0.270 ug/l
RT: 6.78 min Scan# 1567
Delta R.T. -0.00 min
Lab File: VN063734.D
Acq: 29 Sep 2020 18:15

Tgt Ion: 43 Resp: 515
Ion Ratio Lower Upper
43 100
72 0.0 19.2 28.8#





#29

Tetrahydrofuran

Concen: 0.373 ug/l

RT: 7.17 min Scan# 1689

Delta R.T. 0.01 min

Lab File: VN063734.D

Acq: 29 Sep 2020 18:15

Instrument :

MSVOA_N

ClientSampleId :

OR-03-092820

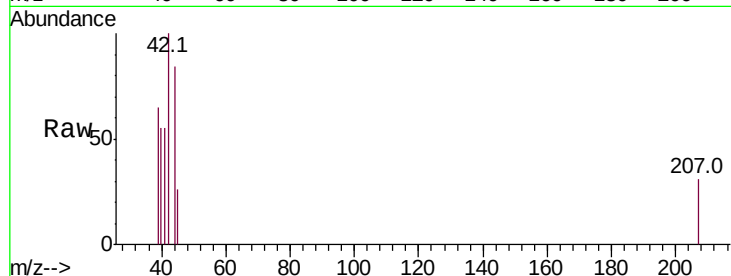
Tot Ion: 42 Resp: 487

Ion Ratio Lower Upper

42 100

72 29.2 32.1 48.1#

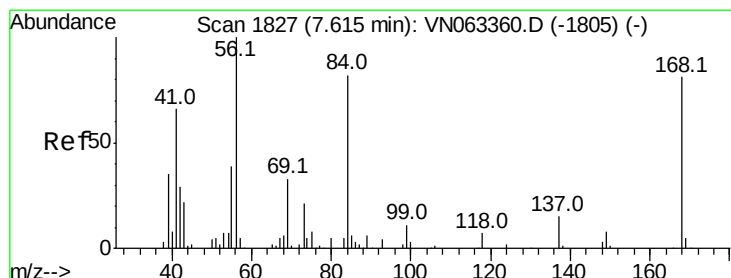
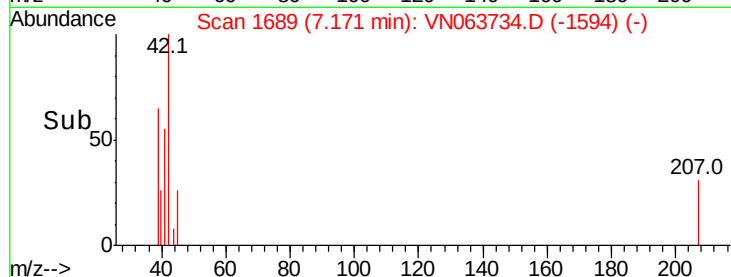
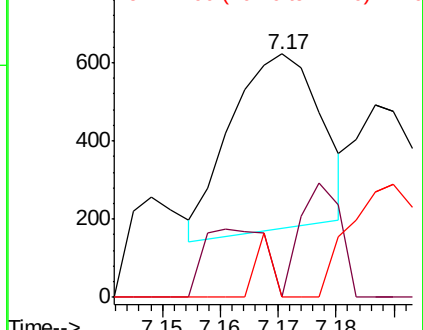
71 6.6 31.2 46.8#



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: 1.311 ug/l

RT: 7.62 min Scan# 1829

Delta R.T. 0.01 min

Lab File: VN063734.D

Acq: 29 Sep 2020 18:15

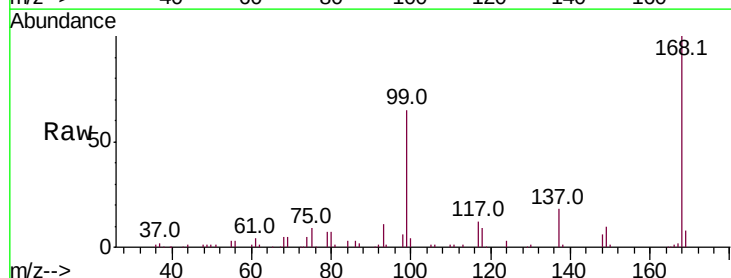
Tgt Ion: 56 Resp: 6994

Ion Ratio Lower Upper

56 100

69 129.7 26.1 39.1#

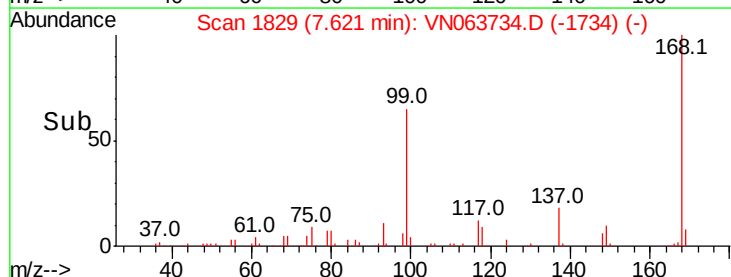
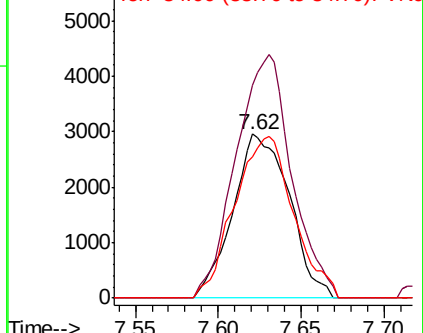
84 86.6 65.4 98.2

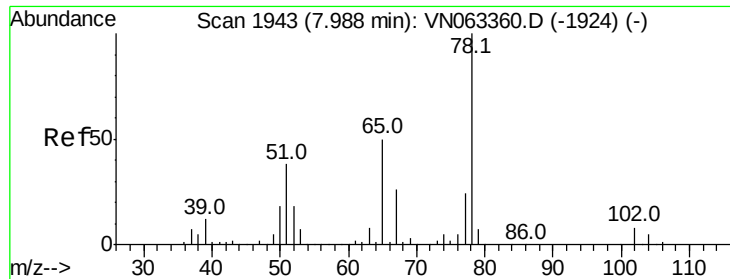


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

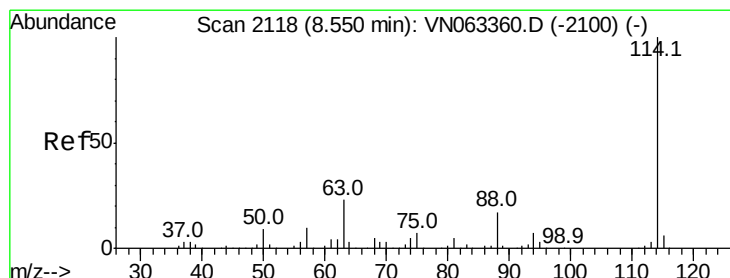
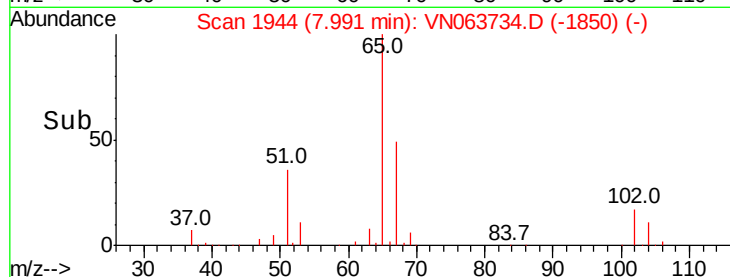
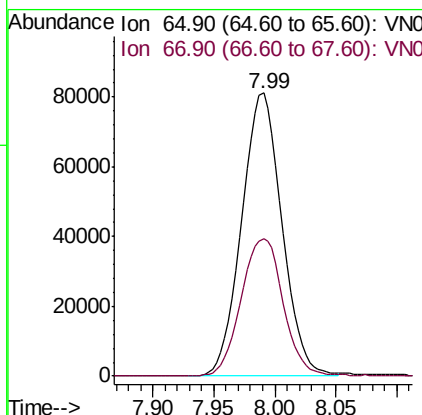
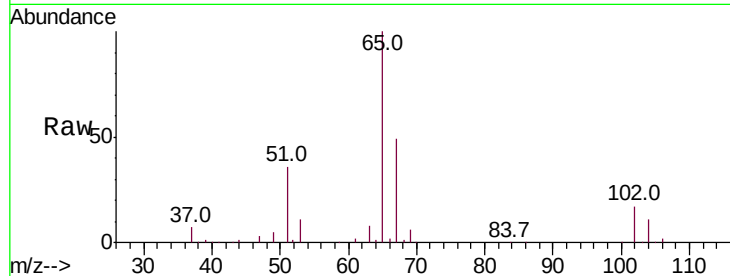




#33
 1,2-Dichloroethane-d4
 Concen: 48.063 ug/l
 RT: 7.99 min Scan# 1944
 Delta R.T. 0.00 min
 Lab File: VN063734.D
 Acq: 29 Sep 2020 18:15

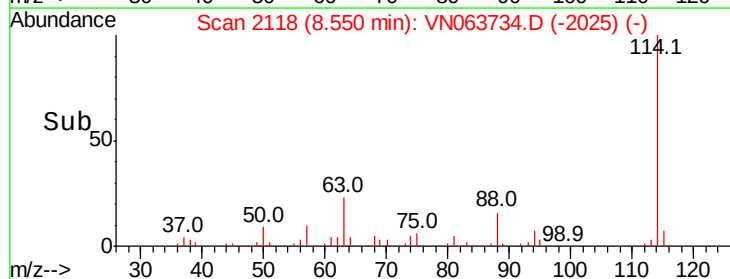
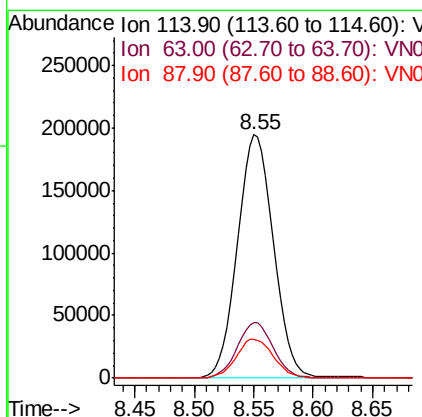
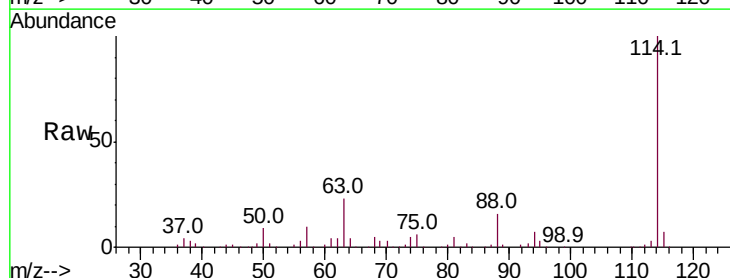
Instrument :
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 OR-03-092820

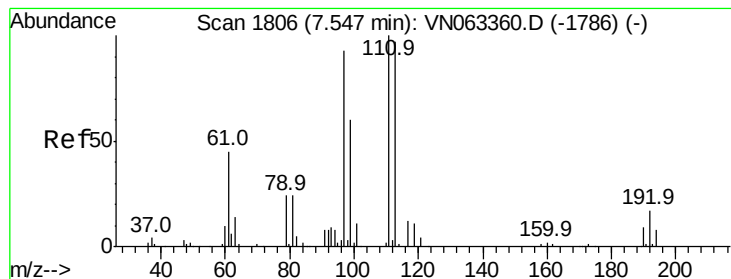
Tot Ion: 65 Resp: 185707
 Ion Ratio Lower Upper
 65 100
 67 50.7 0.0 104.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN063734.D
 Acq: 29 Sep 2020 18:15

Tgt Ion: 114 Resp: 408753
 Ion Ratio Lower Upper
 114 100
 63 22.9 0.0 46.4
 88 16.2 0.0 33.2





#35

Dibromofluoromethane

Concen: 48.477 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063734.D

Acq: 29 Sep 2020 18:15

Instrument :

MSVOA_N

ClientSampleId :

OR-03-092820

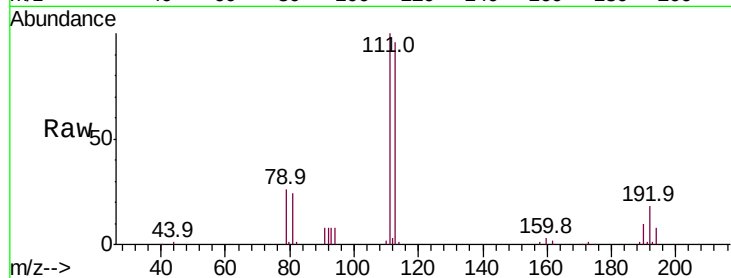
Tot Ion:113 Resp: 137175

Ion Ratio Lower Upper

113 100

111 103.7 82.9 124.3

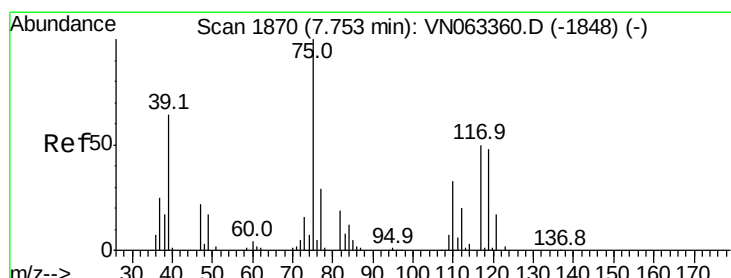
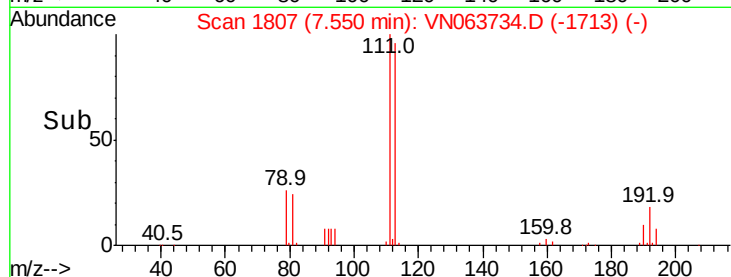
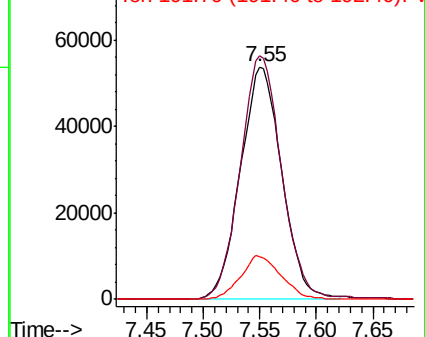
192 18.3 13.9 20.9



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: 4.653 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN063734.D

Acq: 29 Sep 2020 18:15

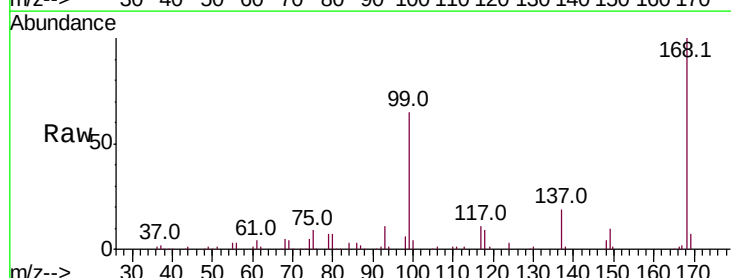
Tgt Ion: 75 Resp: 20263

Ion Ratio Lower Upper

75 100

110 10.3 16.5 49.5#

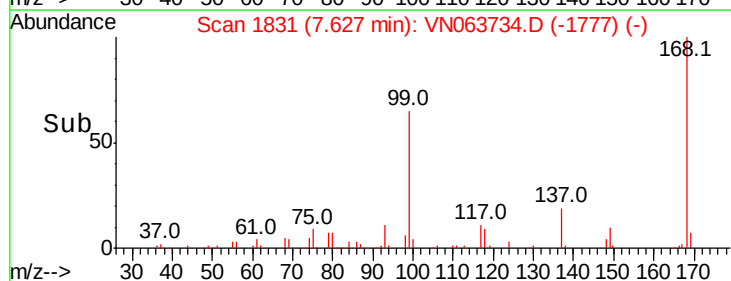
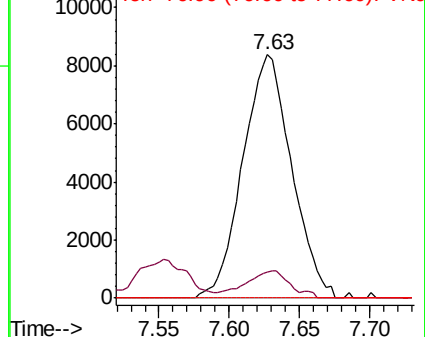
77 0.0 24.6 36.8#

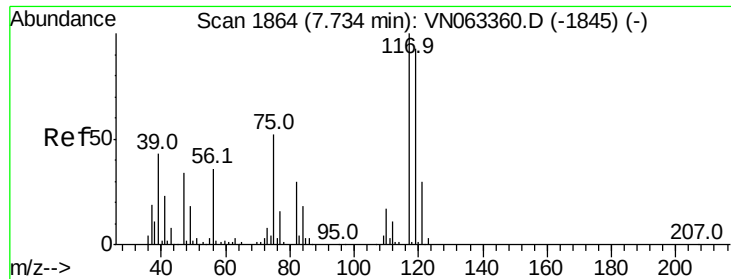


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.547 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN063734.D

Acq: 29 Sep 2020 18:15

Instrument :

MSVOA_N

ClientSampleId :

OR-03-092820

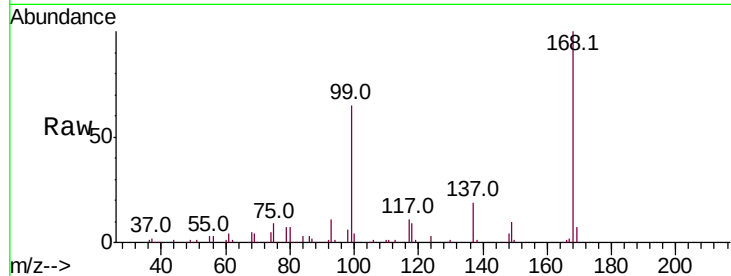
Tot Ion:117 Resp: 24657

Ion Ratio Lower Upper

117 100

119 5.6 74.5 111.7#

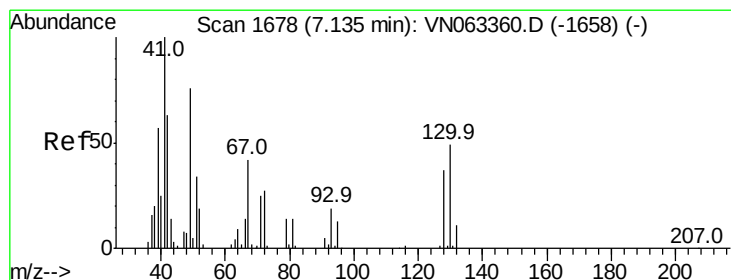
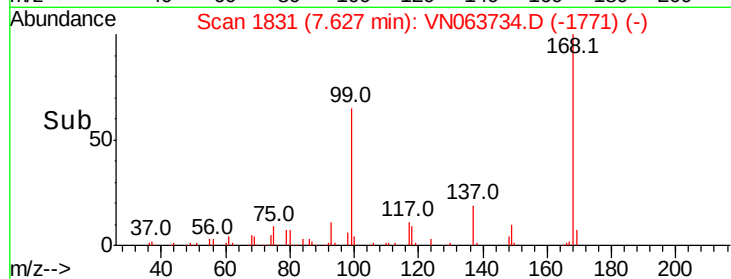
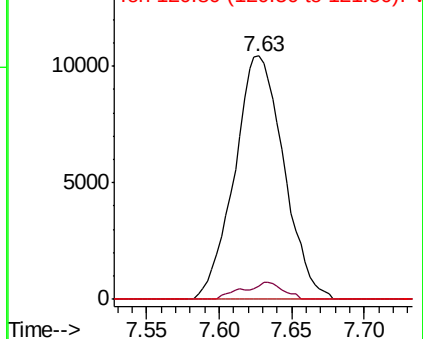
121 0.0 24.1 36.1#



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: 0.404 ug/l

RT: 7.17 min Scan# 1690

Delta R.T. 0.04 min

Lab File: VN063734.D

Acq: 29 Sep 2020 18:15

Tgt Ion: 41 Resp: 777

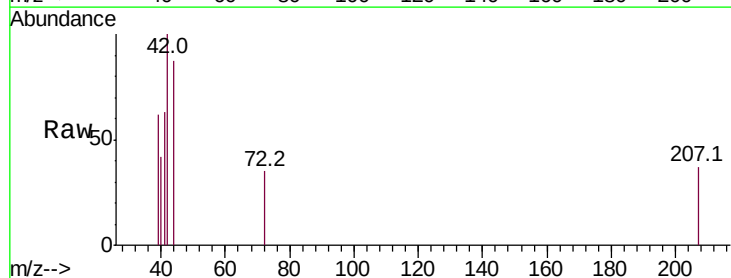
Ion Ratio Lower Upper

41 100

39 15.2 0.0 0.0#

67 0.0 0.0 0.0

52 0.0 0.0 0.0

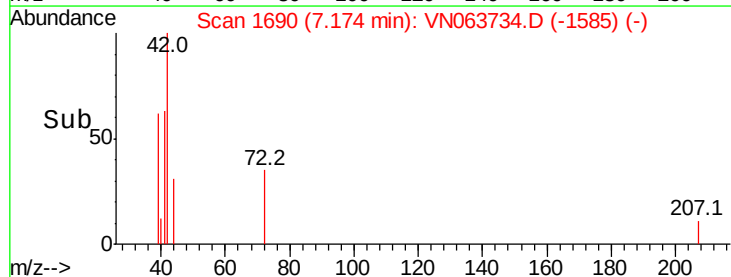
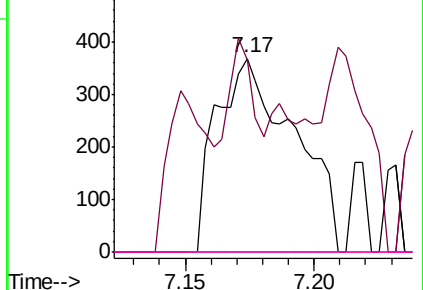


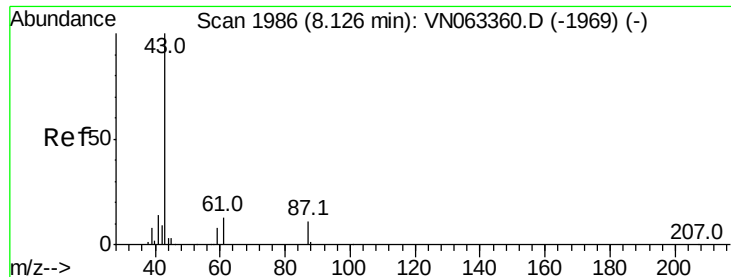
Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 67.00 (66.70 to 67.70): VNO

Ion 52.00 (51.70 to 52.70): VNO





#43

Isopropyl Acetate

Concen: 2.681 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VN063734.D

Acq: 29 Sep 2020 18:15

Instrument :

MSVOA_N

ClientSampled :

OR-03-092820

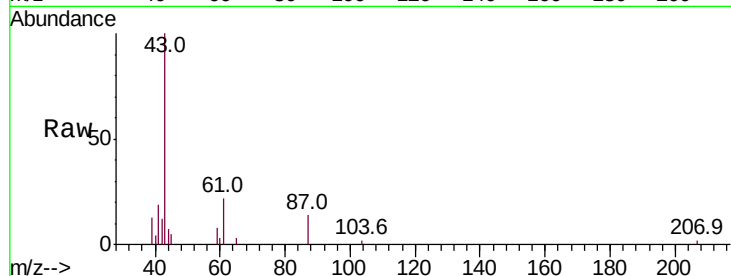
Tot Ion: 43 Resp: 20492

Ion Ratio Lower Upper

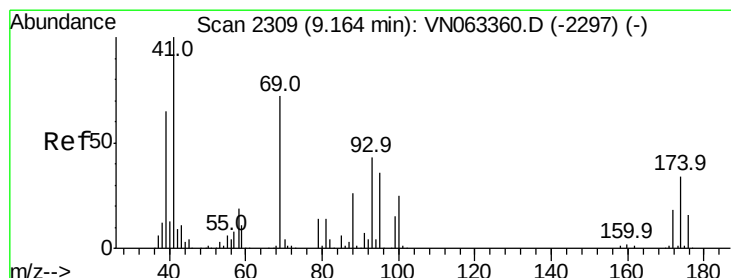
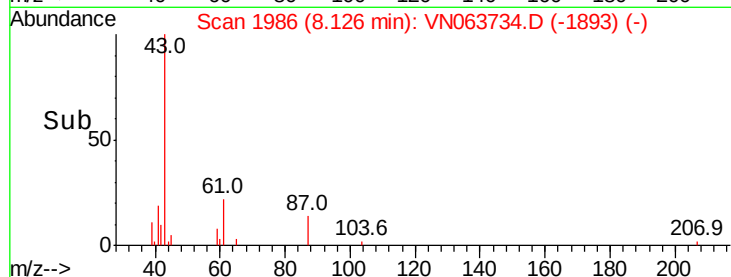
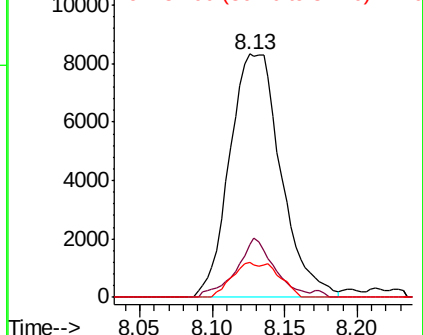
43 100

61 18.1 14.2 21.2

87 7.5 9.0 13.6#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 61.00 (60.70 to 61.70): VNO
Ion 87.00 (86.70 to 87.70): VNO



#48

Methyl methacrylate

Concen: 0.930 ug/l

RT: 9.14 min Scan# 2302

Delta R.T. -0.02 min

Lab File: VN063734.D

Acq: 29 Sep 2020 18:15

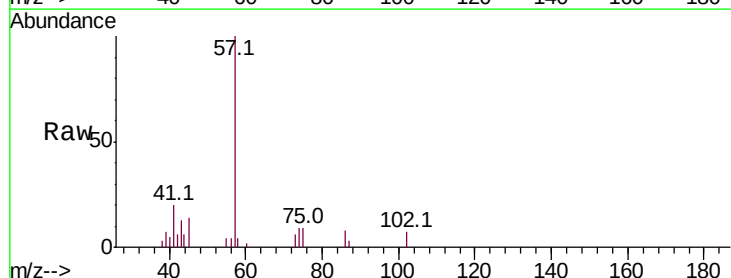
Tgt Ion: 41 Resp: 3493

Ion Ratio Lower Upper

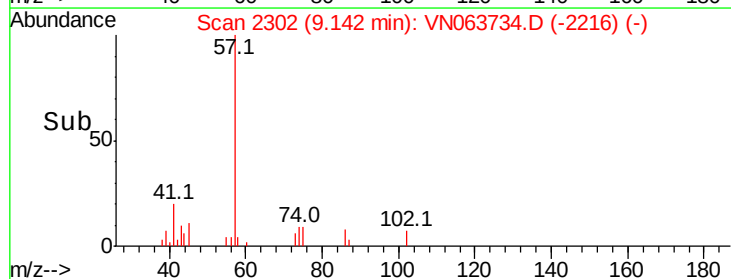
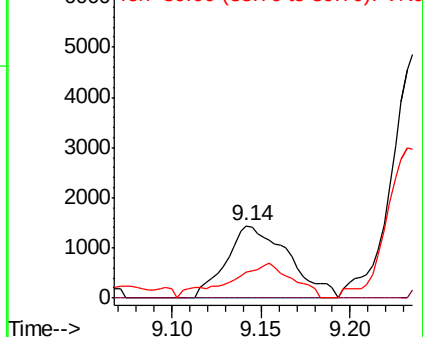
41 100

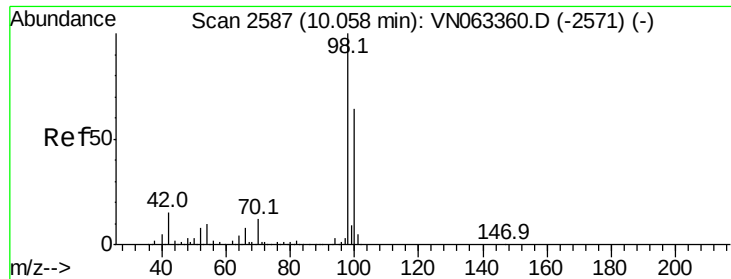
69 0.0 59.3 88.9#

39 48.4 52.9 79.3#



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





#50

Toluene-d8

Concen: 50.373 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063734.D

Acq: 29 Sep 2020 18:15

Instrument :

MSVOA_N

ClientSampleId :

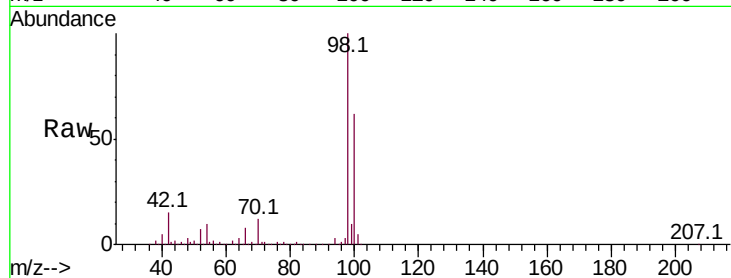
OR-03-092820

Tot Ion: 98 Resp: 535982

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): VN

10.06

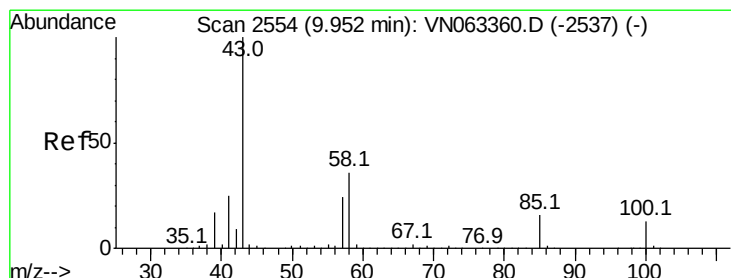
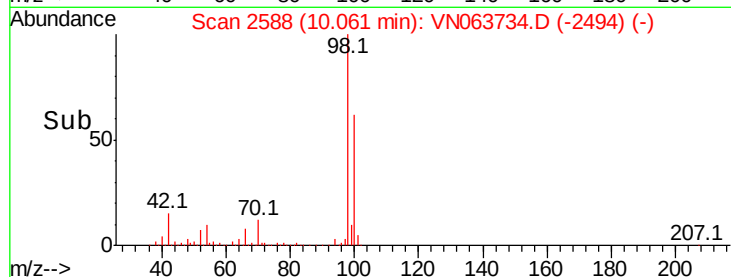
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.532 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN063734.D

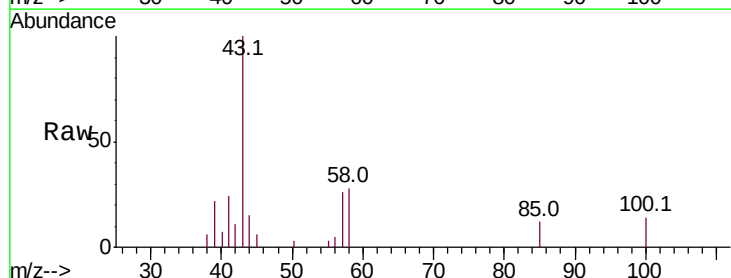
Acq: 29 Sep 2020 18:15

Tgt Ion: 43 Resp: 6556

Ion Ratio Lower Upper

43 100

58 42.6 29.0 43.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

8000

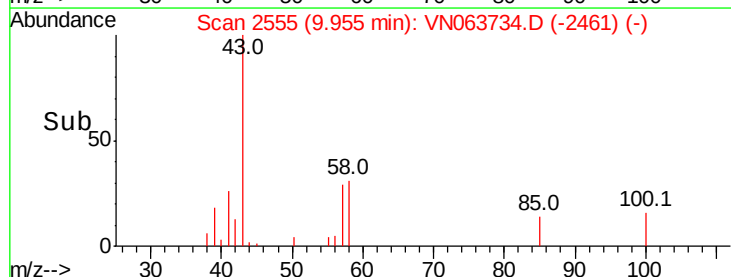
6000

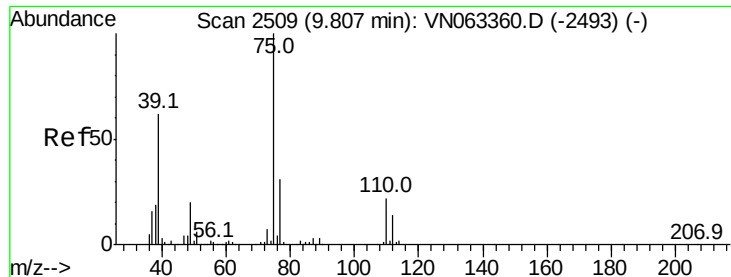
4000

2000

0

Time-->





#54

cis-1,3-Dichloropropene

Concen: 3.899 ug/l

RT: 9.88 min Scan# 2531

Delta R.T. 0.07 min

Lab File: VN063734.D

Acq: 29 Sep 2020 18:15

Instrument :

MSVOA_N

ClientSampleId :

OR-03-092820

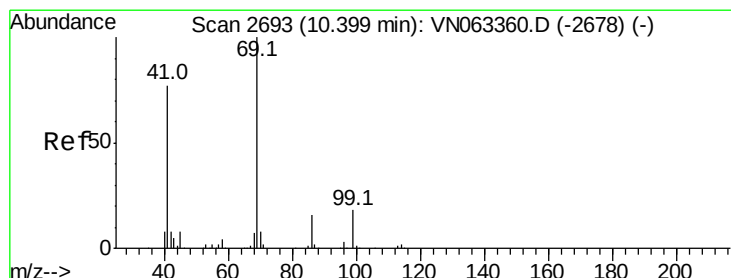
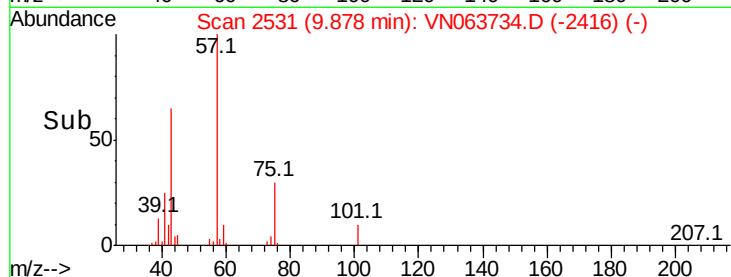
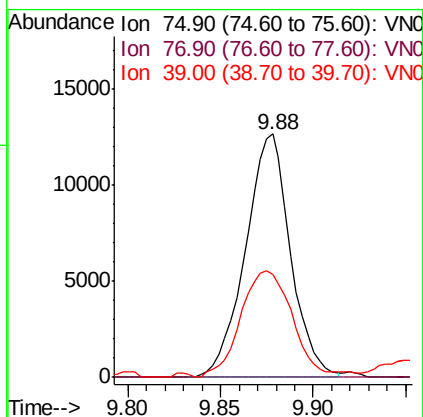
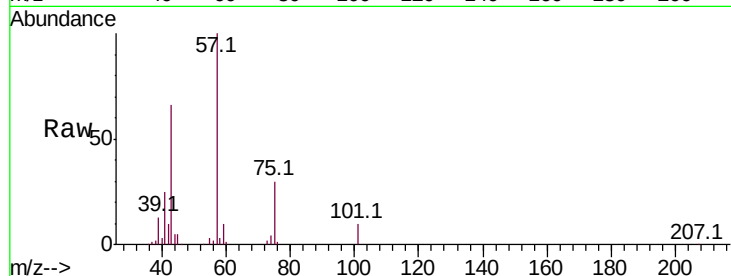
Tot Ion: 75 Resp: 21223

Ion Ratio Lower Upper

75 100

77 0.0 24.6 37.0#

39 41.1 49.8 74.8#



#56

Ethyl methacrylate

Concen: 0.302 ug/l

RT: 10.51 min Scan# 2729

Delta R.T. 0.12 min

Lab File: VN063734.D

Acq: 29 Sep 2020 18:15

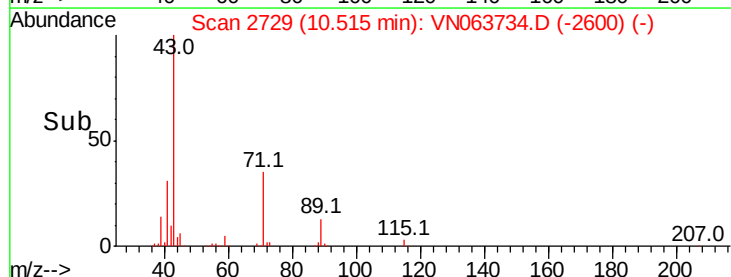
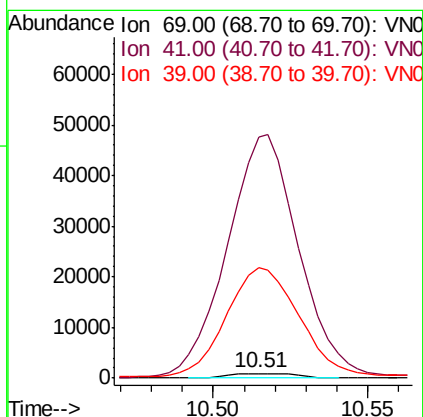
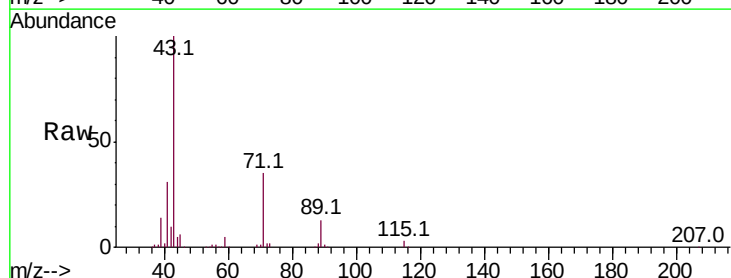
Tgt Ion: 69 Resp: 1398

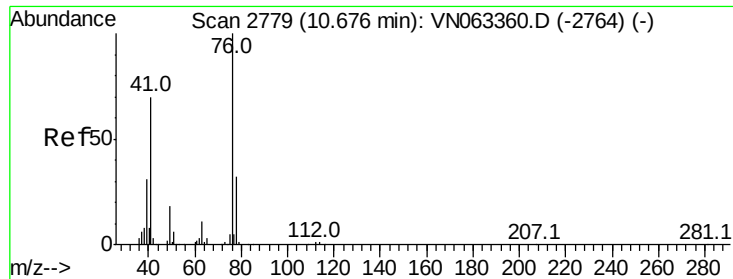
Ion Ratio Lower Upper

69 100

41 5589.2 61.0 91.6#

39 2651.5 39.2 58.8#





#57

1,3-Dichloropropane

Concen: 0.377 ug/l

RT: 10.74 min Scan# 2799

Delta R.T. 0.06 min

Lab File: VN063734.D

Acq: 29 Sep 2020 18:15

Instrument :

MSVOA_N

ClientSampled :

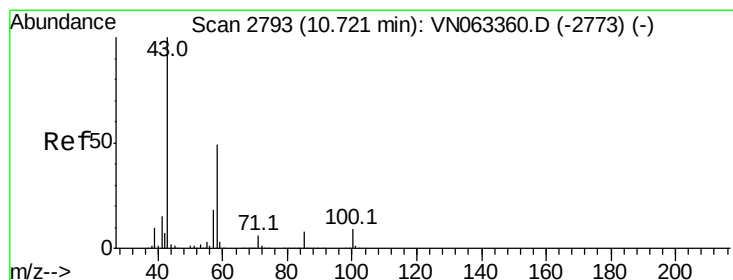
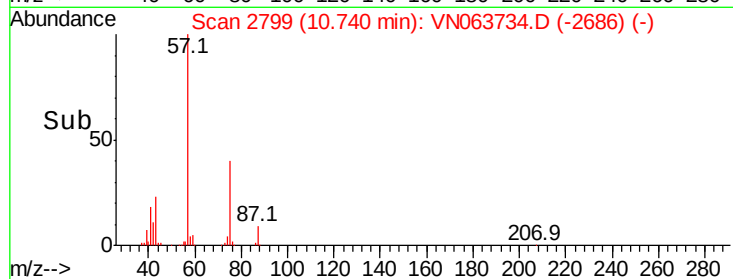
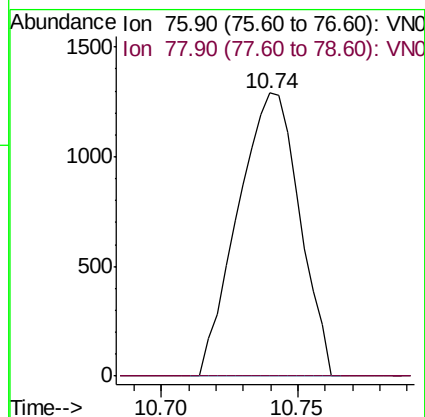
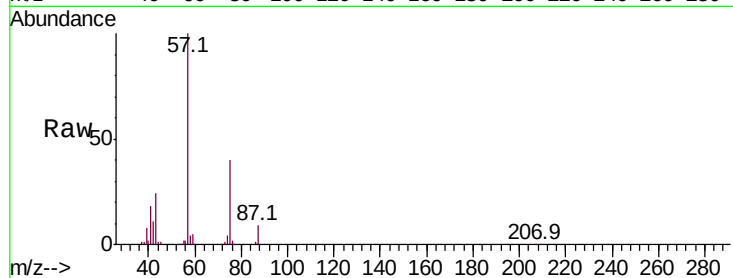
OR-03-092820

Tot Ion: 76 Resp: 2020

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#



#59

2-Hexanone

Concen: 10.034 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063734.D

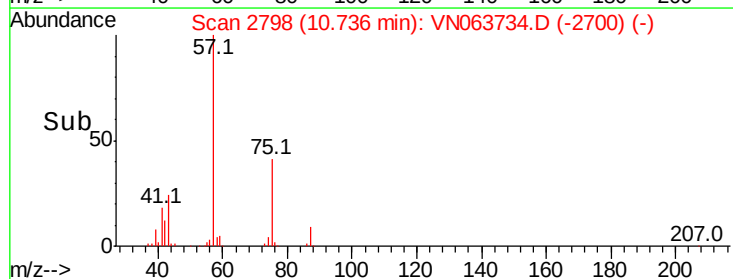
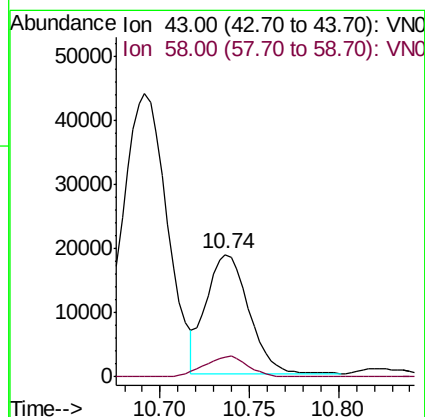
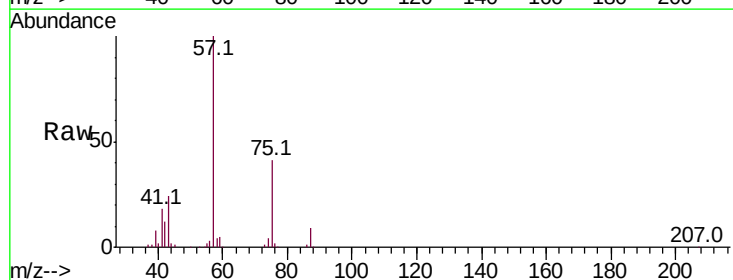
Acq: 29 Sep 2020 18:15

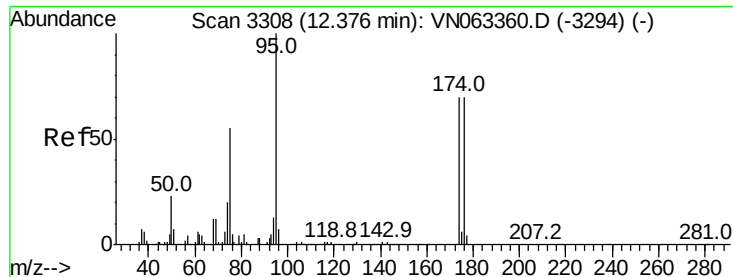
Tgt Ion: 43 Resp: 31101

Ion Ratio Lower Upper

43 100

58 17.1 24.7 74.1#





#62

4-Bromofluorobenzene

Concen: 55.515 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063734.D

Acq: 29 Sep 2020 18:15

Instrument :

MSVOA_N

ClientSampleId :

OR-03-092820

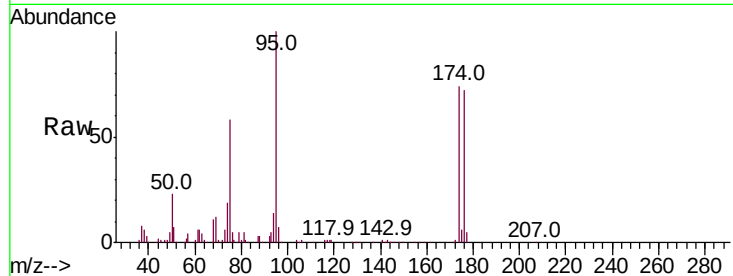
Tot Ion: 95 Resp: 216537

Ion Ratio Lower Upper

95 100

174 74.2 0.0 140.8

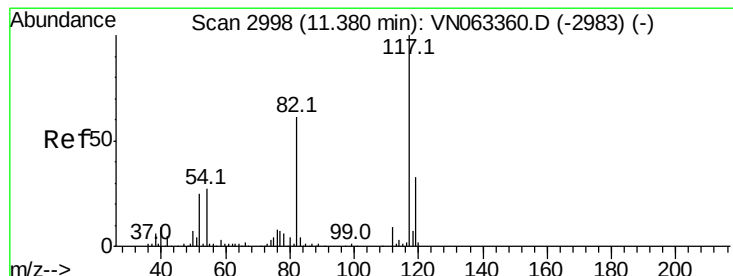
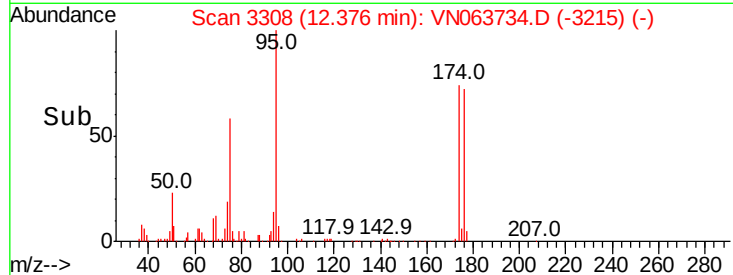
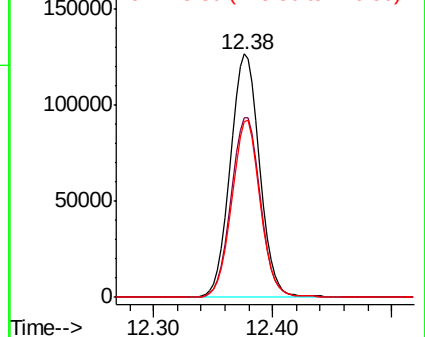
176 70.7 0.0 137.6



Abundance Ion 94.90 (94.60 to 95.60): VN063734.D (-3294) (-)

Ion 173.80 (173.50 to 174.50): VN063734.D (-3294) (-)

Ion 175.80 (175.50 to 176.50): VN063734.D (-3294) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. -0.00 min

Lab File: VN063734.D

Acq: 29 Sep 2020 18:15

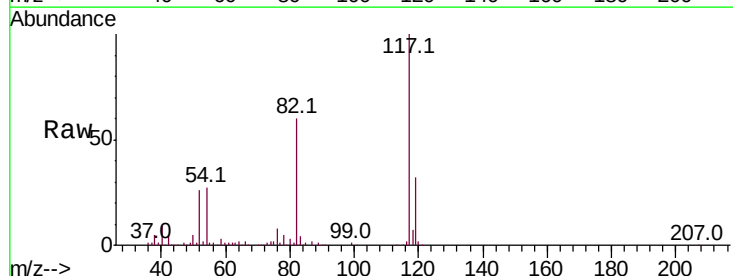
Tgt Ion: 117 Resp: 431192

Ion Ratio Lower Upper

117 100

82 59.8 49.2 73.8

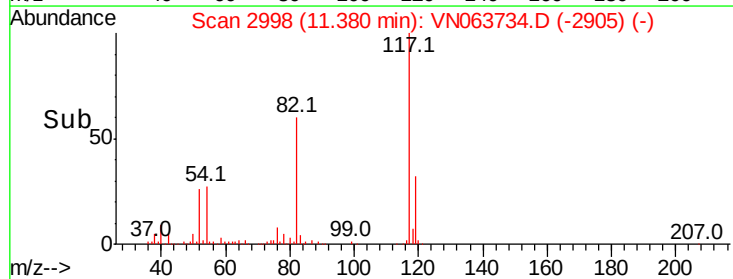
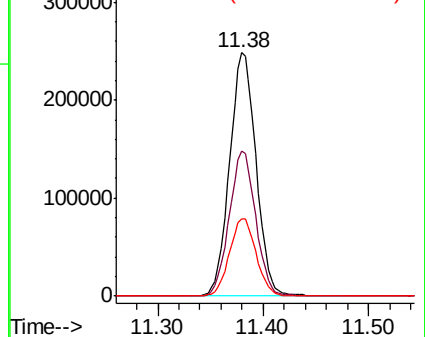
119 31.9 26.2 39.4

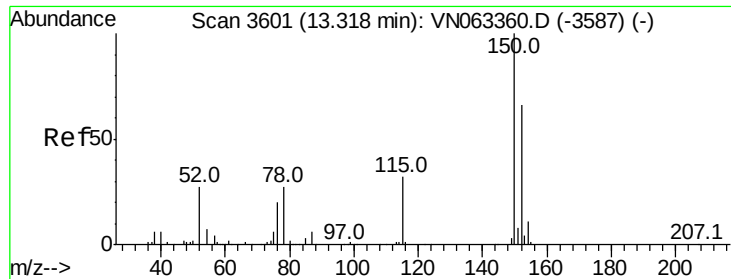


Abundance Ion 116.90 (116.60 to 117.60): VN063734.D (-2983) (-)

Ion 82.00 (81.70 to 82.70): VN063734.D (-2983) (-)

Ion 118.90 (118.60 to 119.60): VN063734.D (-2983) (-)

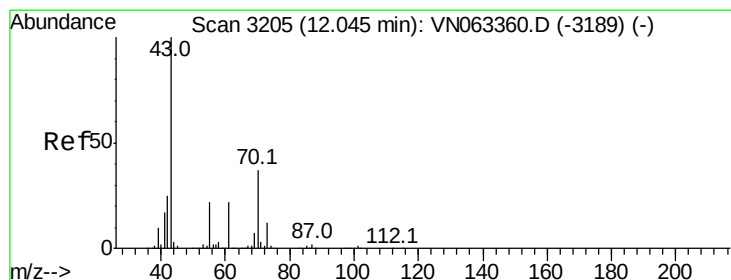
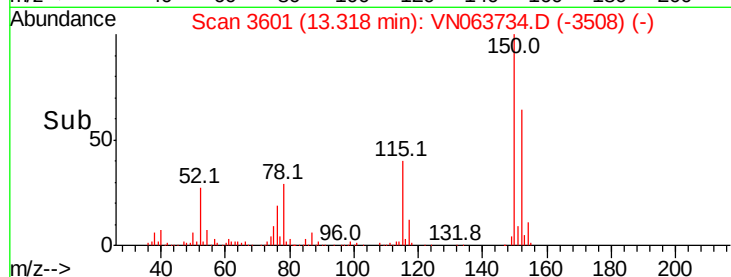
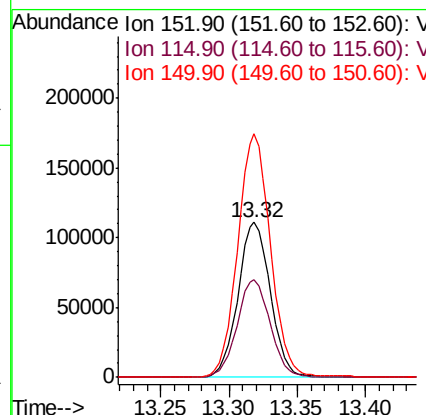
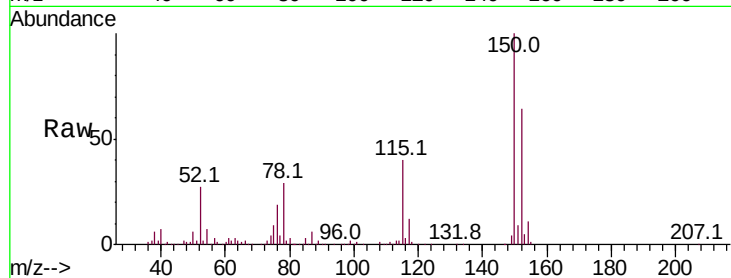




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.32 min Scan# 3601
 Delta R.T. -0.00 min
 Lab File: VN063734.D
 Acq: 29 Sep 2020 18:15

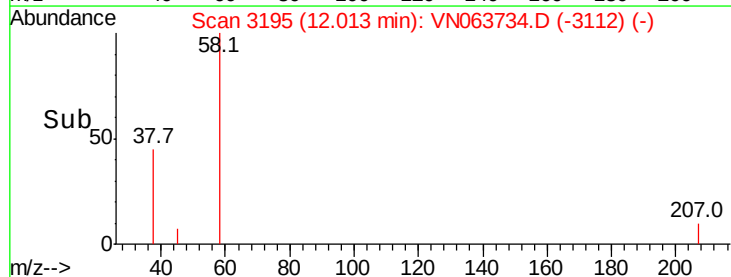
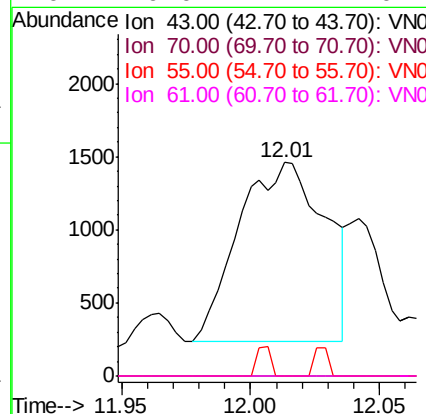
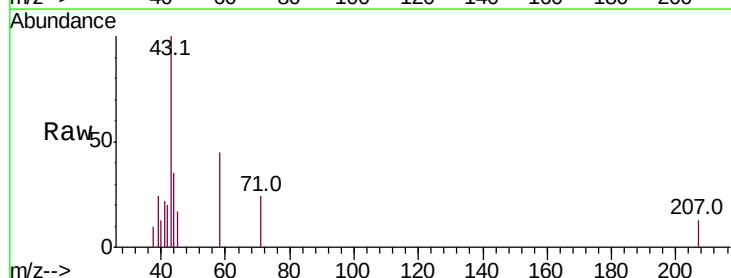
Instrument :
 MSVOA_N
 ClientSampleId :
 OR-03-092820

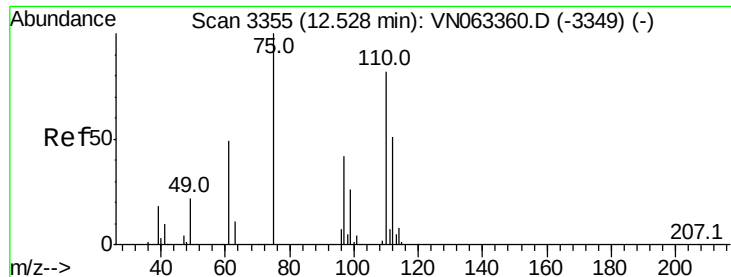
Tot Ion:152 Resp: 183508
 Ion Ratio Lower Upper
 152 100
 115 64.3 32.2 96.6
 150 158.3 0.0 343.4



#74
 N-ethyl acetate
 Concen: 0.411 ug/l
 RT: 12.01 min Scan# 3195
 Delta R.T. -0.03 min
 Lab File: VN063734.D
 Acq: 29 Sep 2020 18:15

Tgt Ion: 43 Resp: 2864
 Ion Ratio Lower Upper
 43 100
 70 0.0 29.6 44.4#
 55 2.7 17.7 26.5#
 61 0.0 17.4 26.2#





#76

1,2,3-Trichloropropane

Concen: 27.590 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063734.D

Acq: 29 Sep 2020 18:15

Instrument :

MSVOA_N

ClientSampleId :

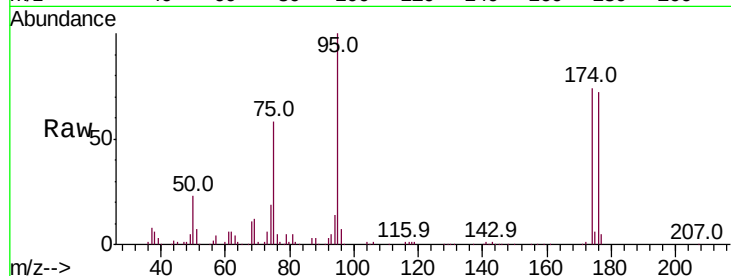
OR-03-092820

Tot Ion: 75 Resp: 125317

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

12.38

80000

60000

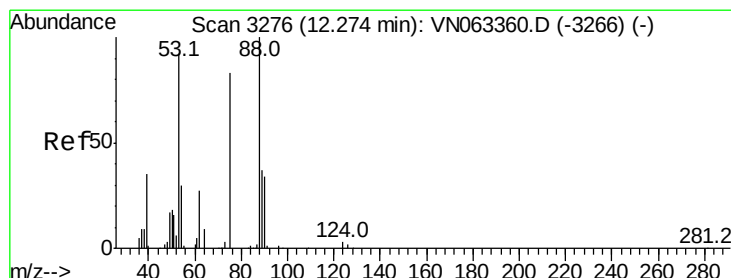
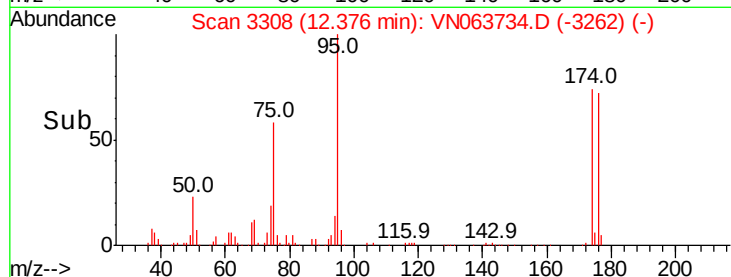
40000

20000

0

Time-->

12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 75.642 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063734.D

Acq: 29 Sep 2020 18:15

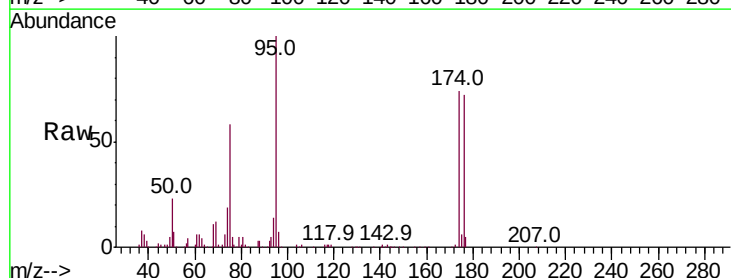
Tgt Ion: 75 Resp: 125317

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

100000

80000

60000

40000

20000

0

Time-->

12.30 12.40 12.50

