

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092420\
 Data File : VN063657.D
 Acq On : 25 Sep 2020 3:49
 Operator : JC/MD
 Sample : PB131852ZHE#02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB131852ZHE#02

Quant Time: Sep 25 05:37:48 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	202506	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	400188	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	412687	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	169914	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	180623	52.40	ug/l	0.00
Spiked Amount			Recovery	=	104.80%	
35) Dibromofluoromethane	7.55	113	129621	46.79	ug/l	0.00
Spiked Amount			Recovery	=	93.58%	
50) Toluene-d8	10.06	98	516914	49.62	ug/l	0.00
Spiked Amount			Recovery	=	99.24%	
62) 4-Bromofluorobenzene	12.38	95	201021	52.64	ug/l	0.00
Spiked Amount			Recovery	=	105.28%	

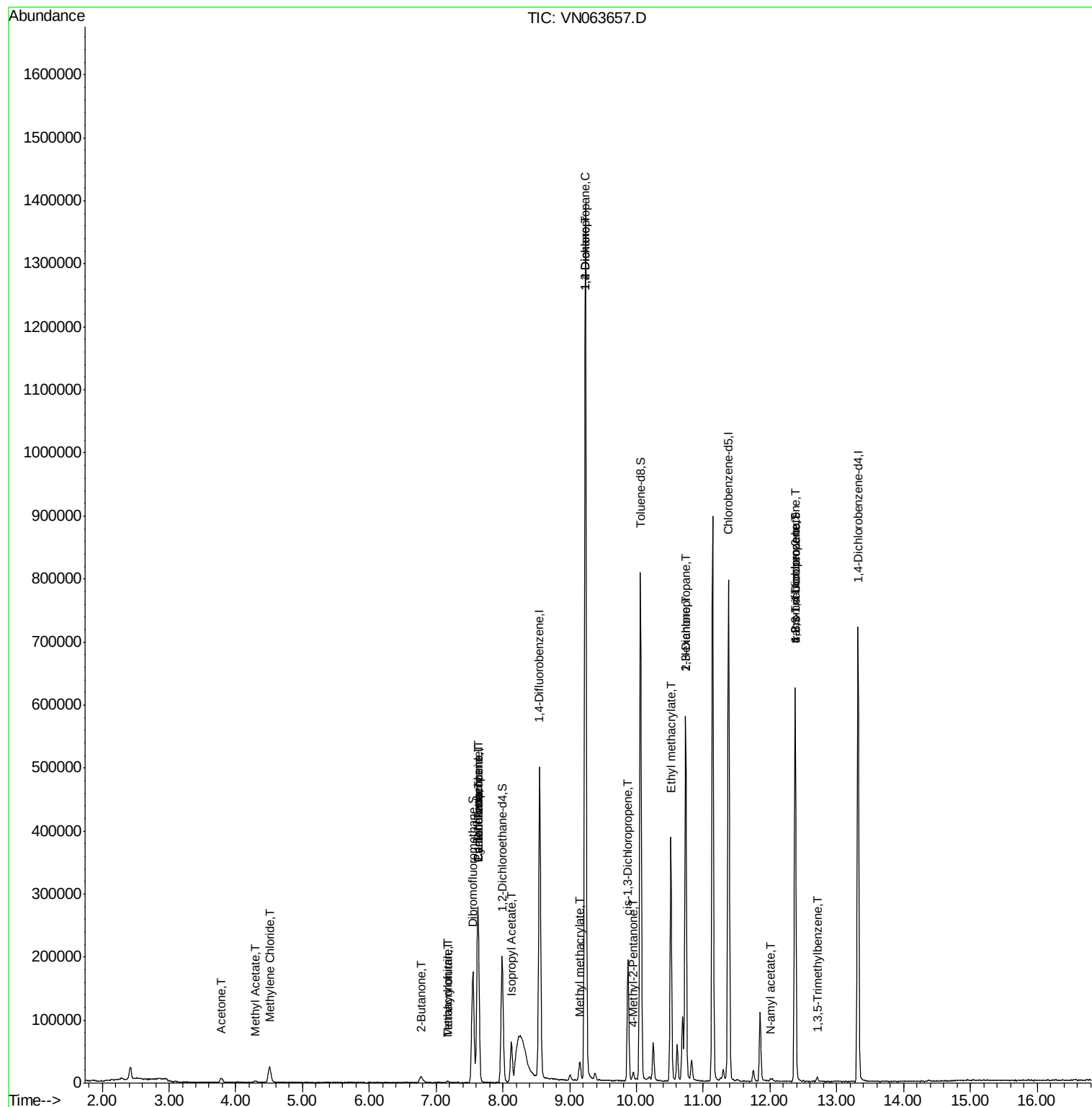
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.77	43	12396	11.189	ug/l	93
18) Methyl Acetate	4.28	43	2971	1.056	ug/l #	67
20) Methylene Chloride	4.51	84	17323	6.172	ug/l	96
25) 2-Butanone	6.79	43	2566	1.506	ug/l #	82
29) Tetrahydrofuran	7.17	42	1063	0.913	ug/l	91
31) Cyclohexane	7.62	56	5834	1.225	ug/l #	9
36) 1,1-Dichloropropene	7.62	75	19262	4.518	ug/l #	52
38) Carbon Tetrachloride	7.63	117	23559	5.413	ug/l #	17
41) Methacrylonitrile	7.16	41	637	0.338	ug/l #	100
43) Isopropyl Acetate	8.13	43	77668	10.381	ug/l	99
45) 1,2-Dichloropropane	9.24	63	1658	0.500	ug/l #	43
48) Methyl methacrylate	9.14	41	4686	1.275	ug/l #	15
49) 1,4-Dioxane	9.24	88	171	3.242	ug/l #	1
51) 4-Methyl-2-Pentanone	9.96	43	7337	1.752	ug/l #	78
54) cis-1,3-Dichloropropene	9.87	75	30764	5.772	ug/l #	67
56) Ethyl methacrylate	10.51	69	1578	0.348	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	4750	0.906	ug/l #	42
59) 2-Hexanone	10.74	43	89925	29.633	ug/l #	55
74) N-amyl acetate	12.00	43	1886	0.293	ug/l #	53
76) 1,2,3-Trichloropropane	12.38	75	116365	27.669	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	3324	0.293	ug/l	82
81) trans-1,4-Dichloro-2-buten	12.38	75	116365	75.858	ug/l #	7

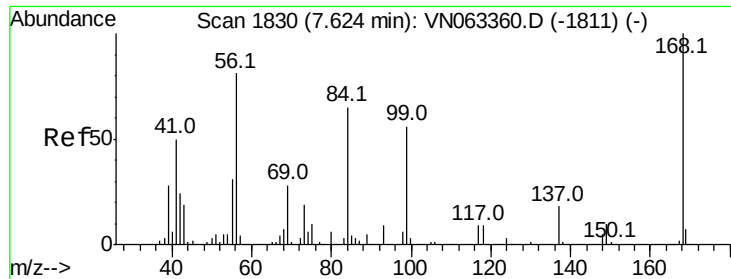
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 43 Sample Multiplier: 1

Instrument :
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Quant Time: Sep 25 05:37:48 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N091620W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 16 13:05:20 2020
Response via : Initial Calibration

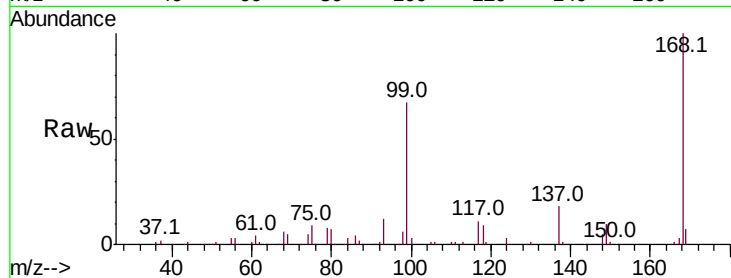




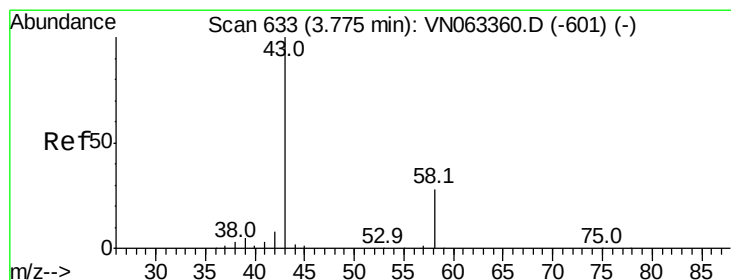
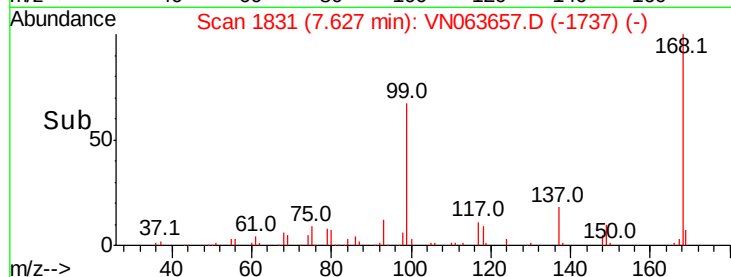
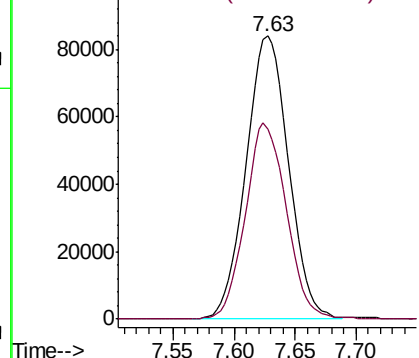
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. 0.00 min
Lab File: VN063657.D
Acq: 25 Sep 2020 3:49

Instrument :
MSVOA_N
ClientSampleId :
PB131852ZHE#02

Tot Ion:168 Resp: 202506
Ion Ratio Lower Upper
168 100
99 67.1 53.0 79.6

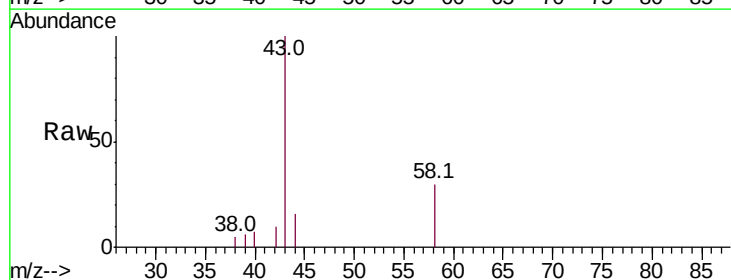


Abundance Ion 167.90 (167.60 to 168.60): V
Ion 98.90 (98.60 to 99.60): VN

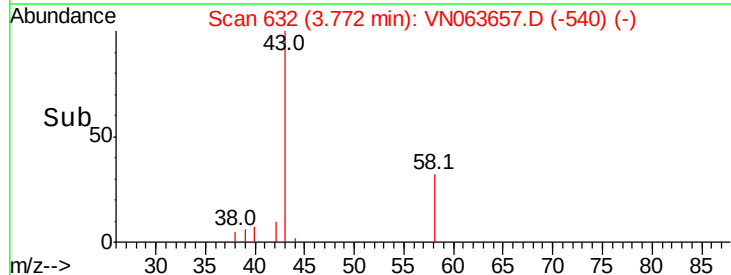
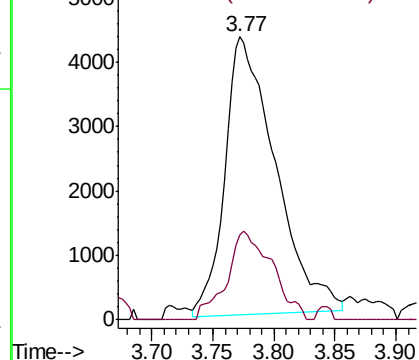


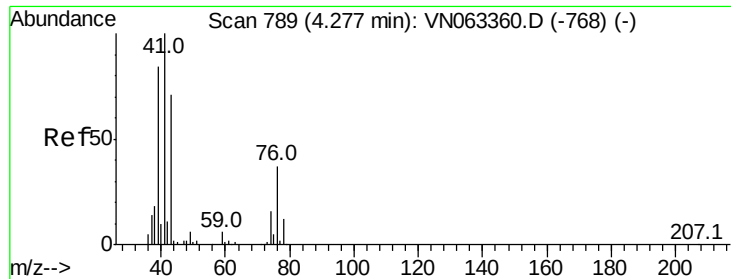
#16
Acetone
Concen: 11.189 ug/l
RT: 3.77 min Scan# 632
Delta R.T. -0.00 min
Lab File: VN063657.D
Acq: 25 Sep 2020 3:49

Tgt Ion: 43 Resp: 12396
Ion Ratio Lower Upper
43 100
58 31.3 22.3 33.5



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

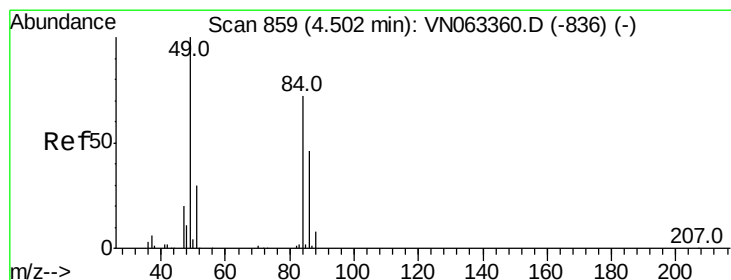
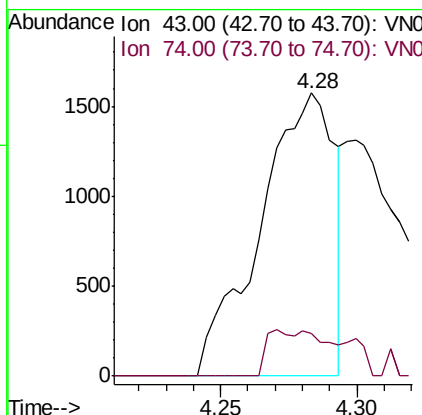
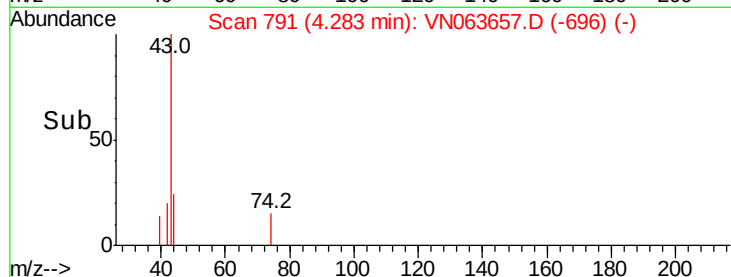
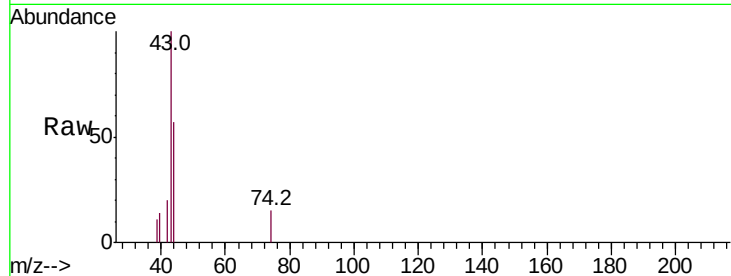




#18
Methvl Acetate
Concen: 1.056 ug/l
RT: 4.28 min Scan# 791
Delta R.T. 0.01 min
Lab File: VN063657.D
Acq: 25 Sep 2020 3:49

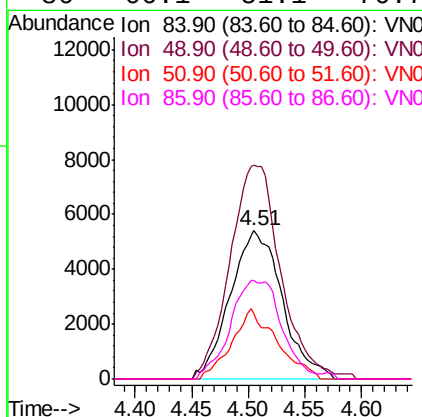
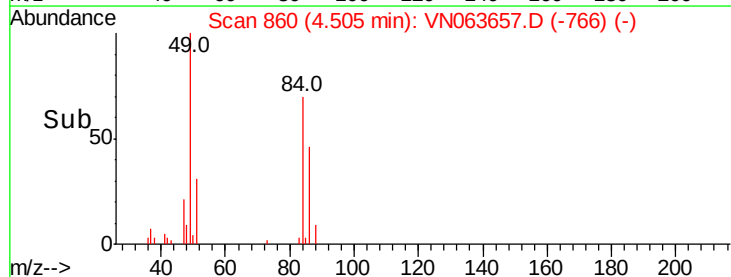
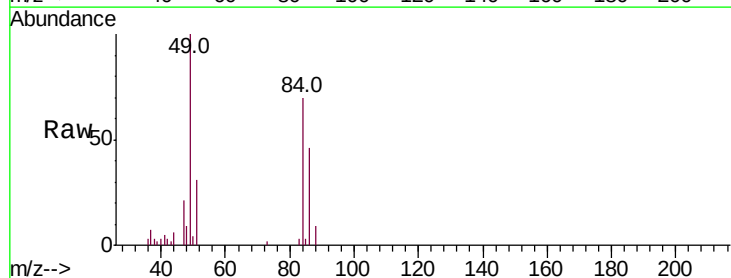
Instrument :
MSVOA_N
ClientSampleId :
PB131852ZHE#02

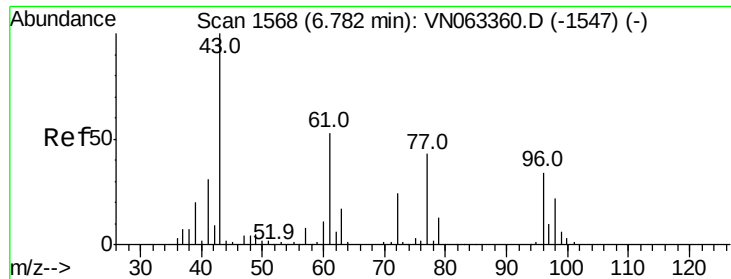
Tot Ion: 43 Resp: 2971
Ion Ratio Lower Upper
43 100
74 6.2 17.4 26.2#



#20
Methylene Chloride
Concen: 6.172 ug/l
RT: 4.51 min Scan# 860
Delta R.T. 0.00 min
Lab File: VN063657.D
Acq: 25 Sep 2020 3:49

Tgt Ion: 84 Resp: 17323
Ion Ratio Lower Upper
84 100
49 143.9 110.7 166.1
51 43.9 32.9 49.3
86 66.1 51.1 76.7





#25

2-Butanone

Concen: 1.506 ug/l

RT: 6.79 min Scan# 1571

Delta R.T. 0.01 min

Lab File: VN063657.D

Acq: 25 Sep 2020 3:49

Instrument :

MSVOA_N

ClientSampleId :

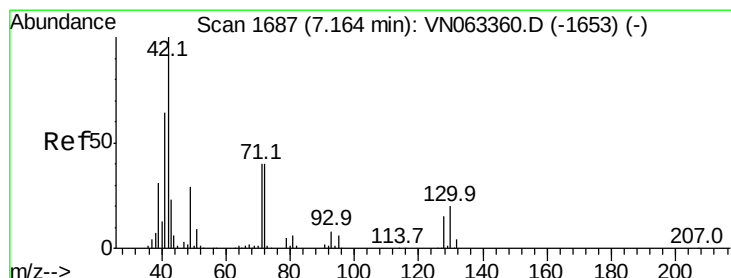
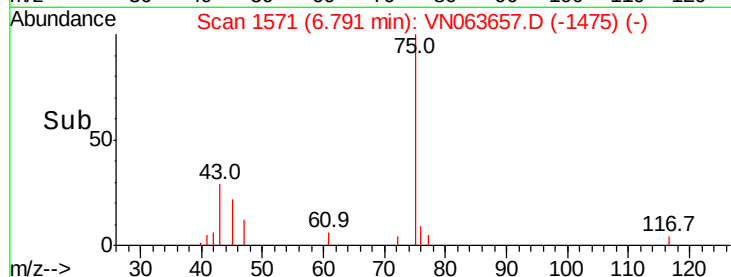
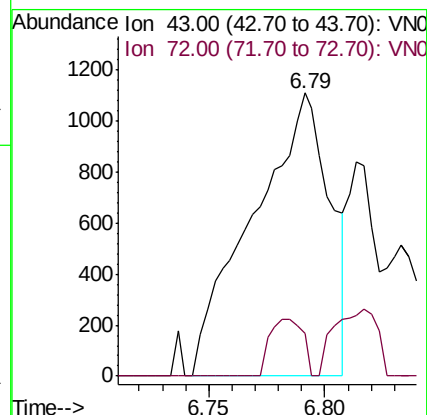
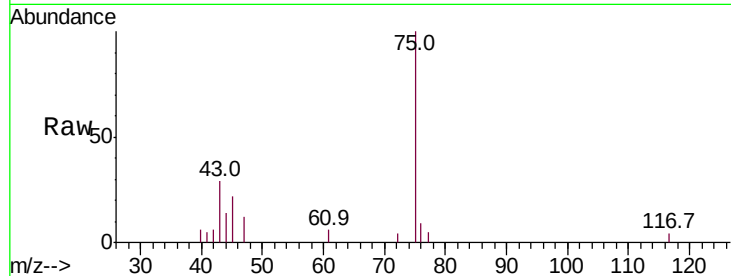
PB131852ZHE#02

Tot Ion: 43 Resp: 2566

Ion Ratio Lower Upper

43 100

72 15.1 19.2 28.8#



#29

Tetrahydrofuran

Concen: 0.913 ug/l

RT: 7.17 min Scan# 1688

Delta R.T. 0.00 min

Lab File: VN063657.D

Acq: 25 Sep 2020 3:49

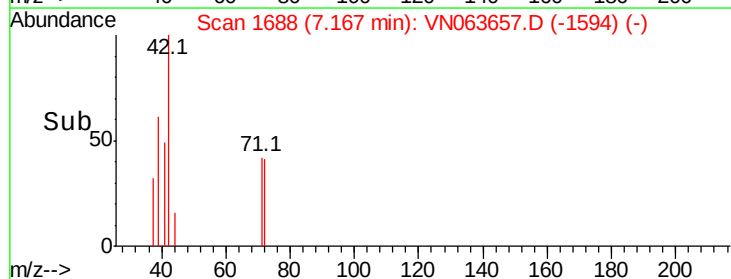
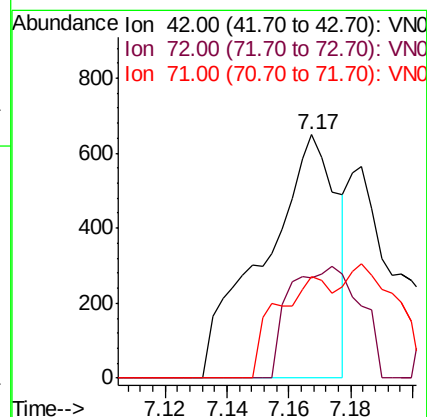
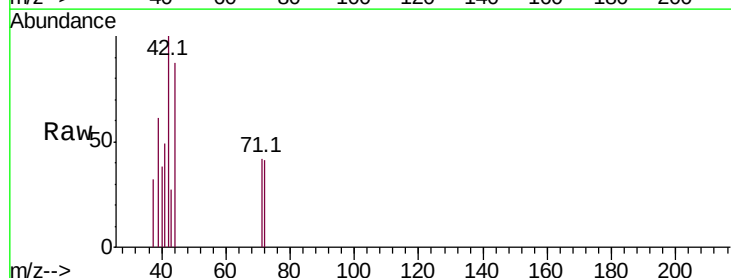
Tgt Ion: 42 Resp: 1063

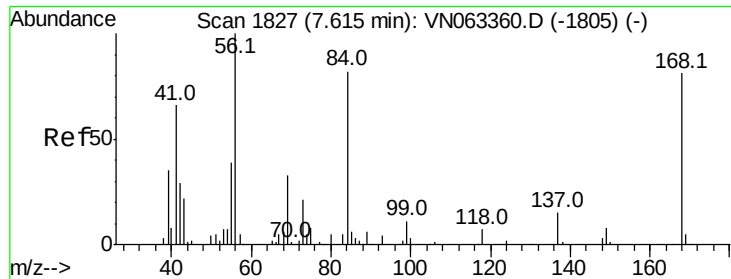
Ion Ratio Lower Upper

42 100

72 44.2 32.1 48.1

71 31.6 31.2 46.8

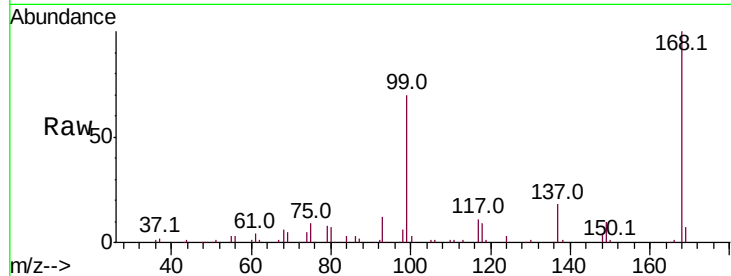




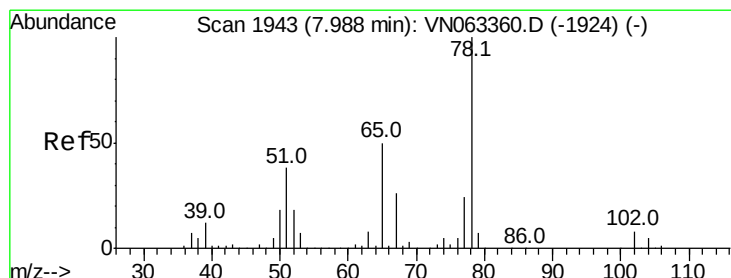
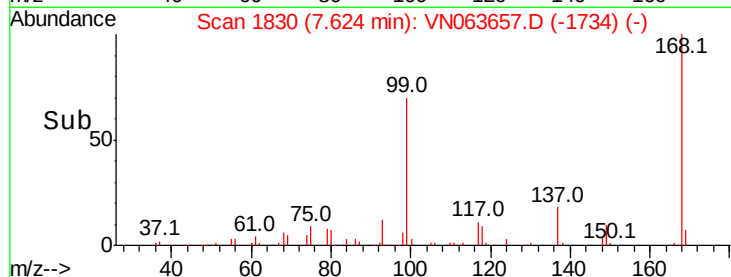
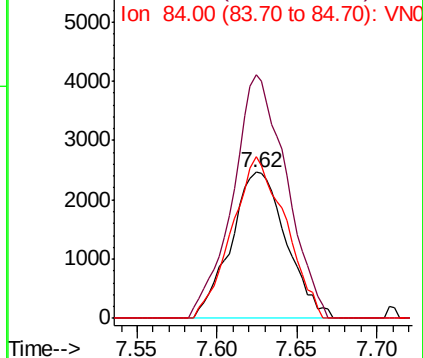
#31
Cyclohexane
Concen: 1.225 ug/l
RT: 7.62 min Scan# 1830
Delta R.T. 0.01 min
Lab File: VN063657.D
Acq: 25 Sep 2020 3:49

Instrument :
MSVOA_N
ClientSampleId :
PB131852ZHE#02

Tot Ion: 56 Resp: 5834
Ion Ratio Lower Upper
56 100
69 167.0 26.1 39.1#
84 110.5 65.4 98.2#

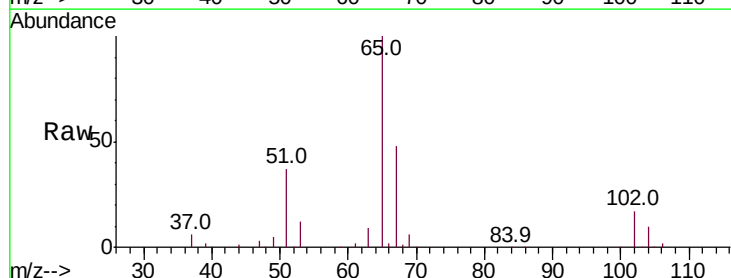


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

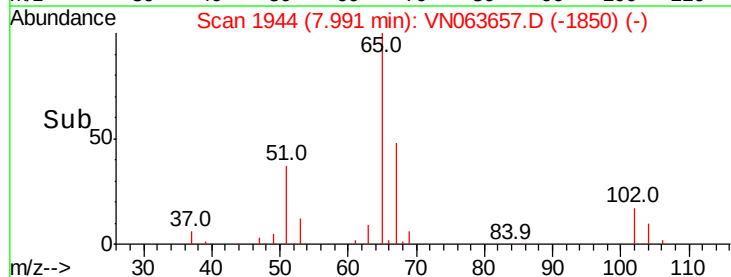
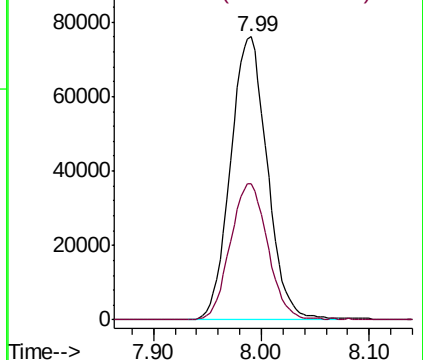


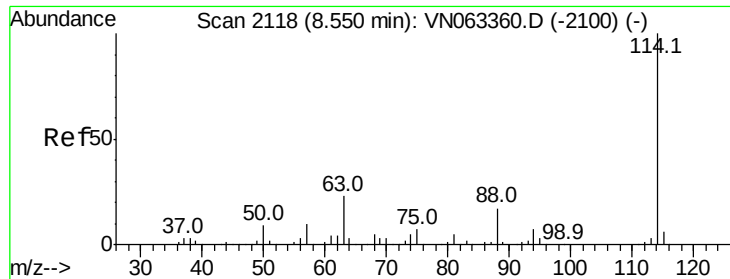
#33
1,2-Dichloroethane-d4
Concen: 52.397 ug/l
RT: 7.99 min Scan# 1944
Delta R.T. 0.00 min
Lab File: VN063657.D
Acq: 25 Sep 2020 3:49

Tgt Ion: 65 Resp: 180623
Ion Ratio Lower Upper
65 100
67 48.8 0.0 104.2



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

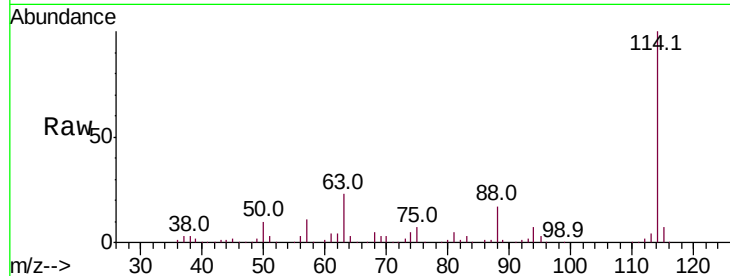




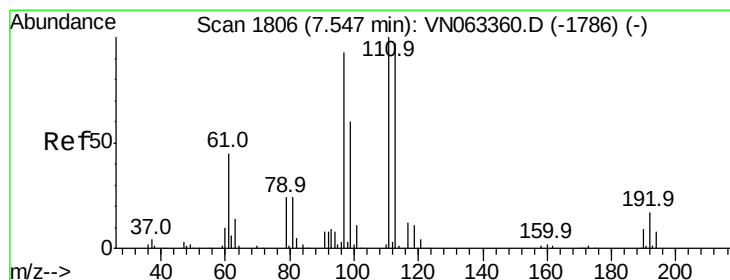
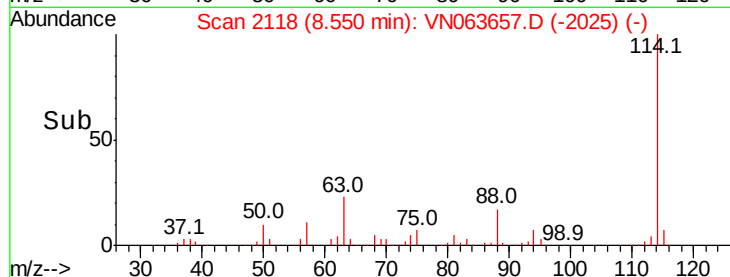
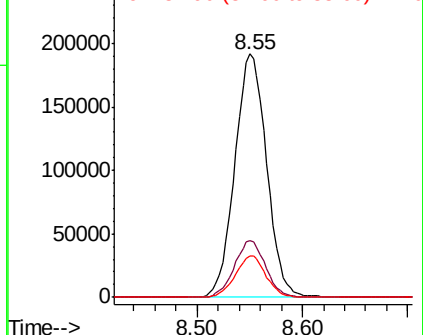
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN063657.D
 Acq: 25 Sep 2020 3:49

Instrument :
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Tot Ion	Ratio	Lower	Upper
114	100		
63	23.5	0.0	46.4
88	17.1	0.0	33.2

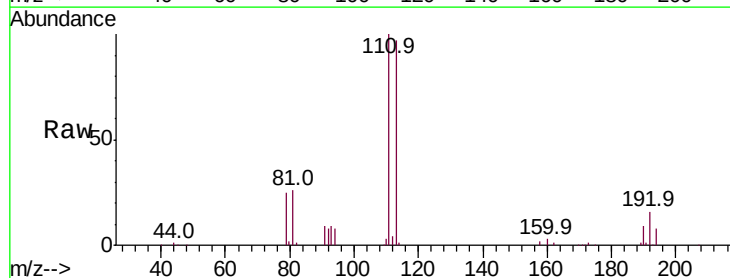


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

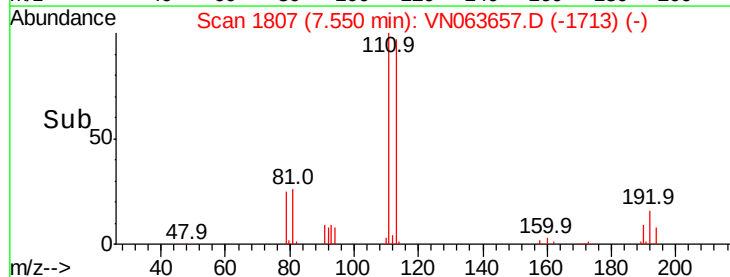
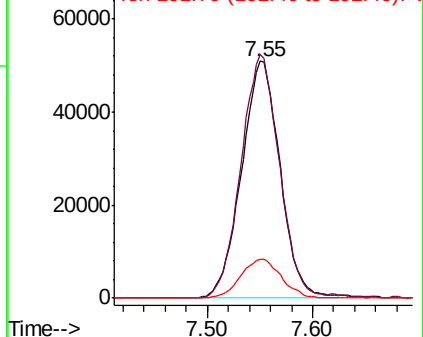


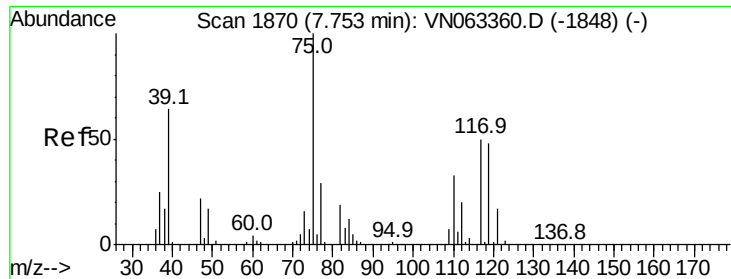
#35
 Dibromofluoromethane
 Concen: 46.787 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN063657.D
 Acq: 25 Sep 2020 3:49

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.8	82.9	124.3
192	17.2	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

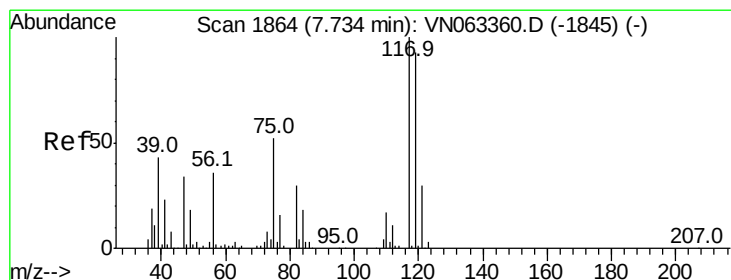
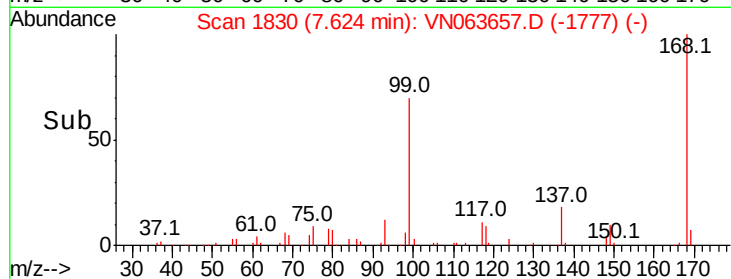
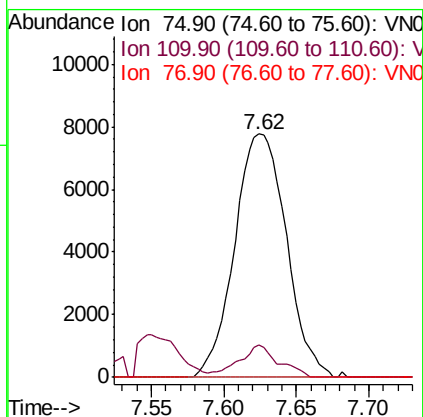
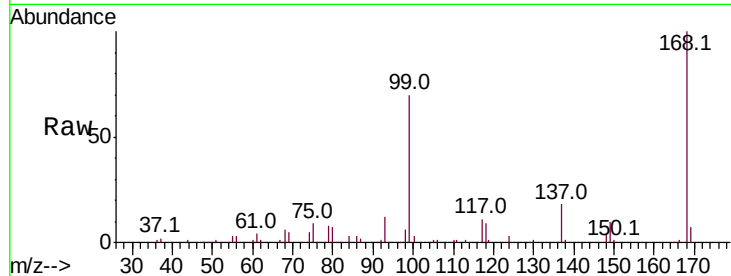




#36
 1,1-Dichloropropene
 Concen: 4.518 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN063657.D
 Acq: 25 Sep 2020 3:49

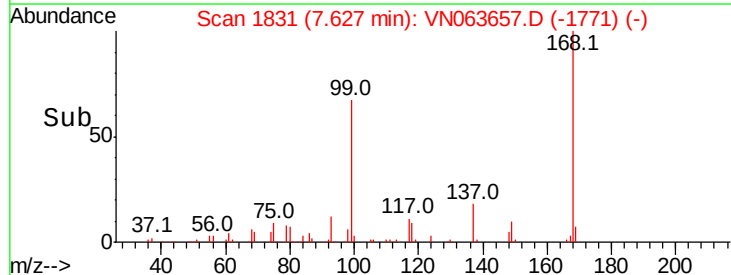
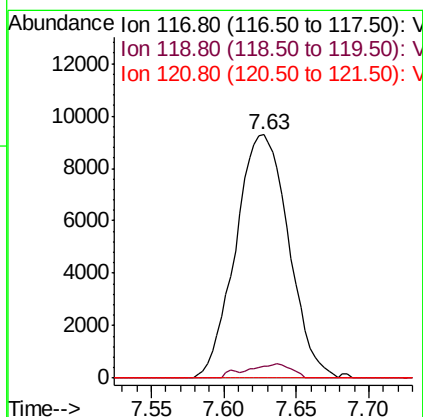
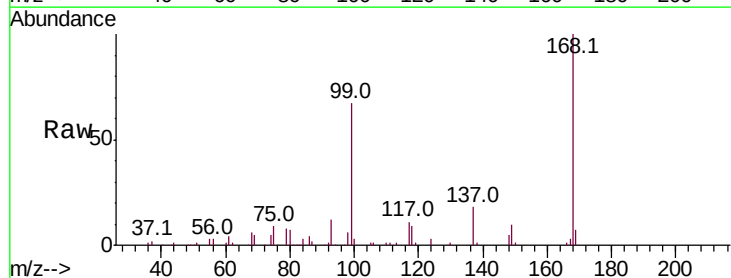
Instrument :
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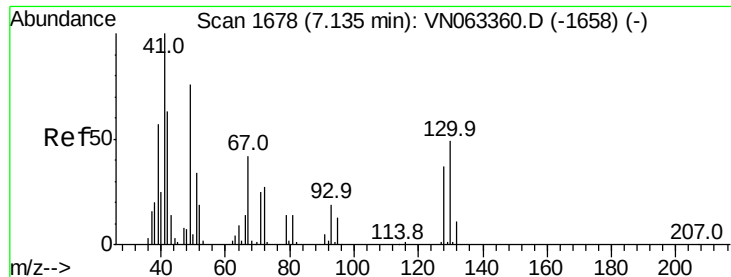
Tot Ion: 75 Resp: 19262
 Ion Ratio Lower Upper
 75 100
 110 10.2 16.5 49.5#
 77 0.0 24.6 36.8#



#38
 Carbon Tetrachloride
 Concen: 5.413 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.11 min
 Lab File: VN063657.D
 Acq: 25 Sep 2020 3:49

Tgt Ion: 117 Resp: 23559
 Ion Ratio Lower Upper
 117 100
 119 5.0 74.5 111.7#
 121 0.0 24.1 36.1#

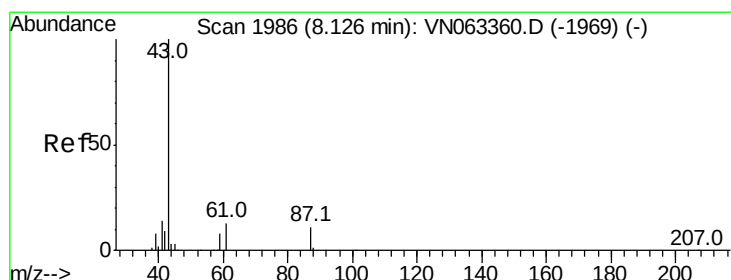
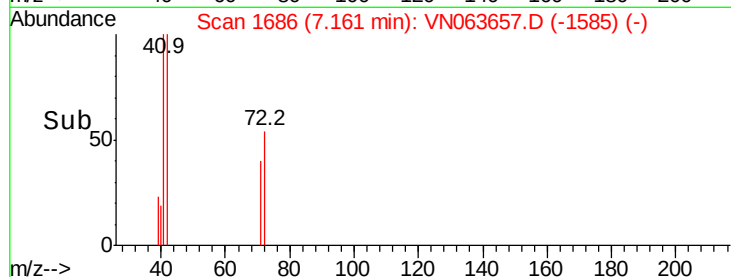
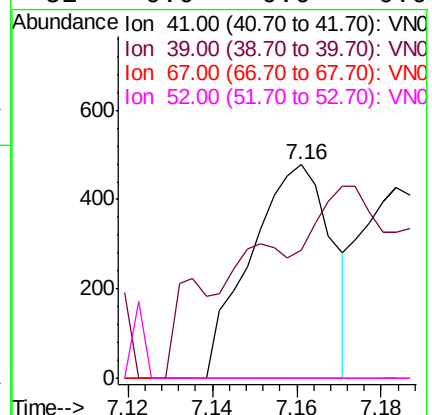
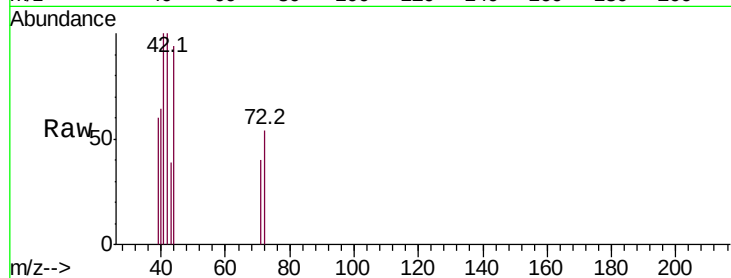




#41
Methacrylonitrile
Concen: 0.338 ug/l
RT: 7.16 min Scan# 1686
Delta R.T. 0.03 min
Lab File: VN063657.D
Acq: 25 Sep 2020 3:49

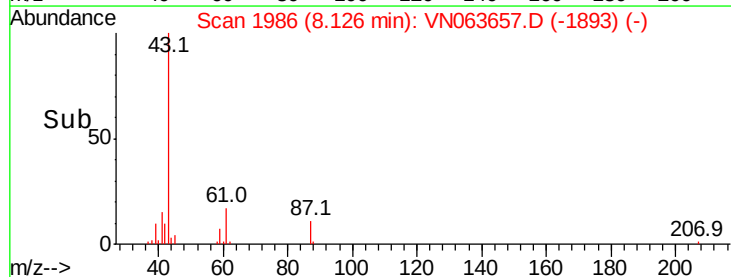
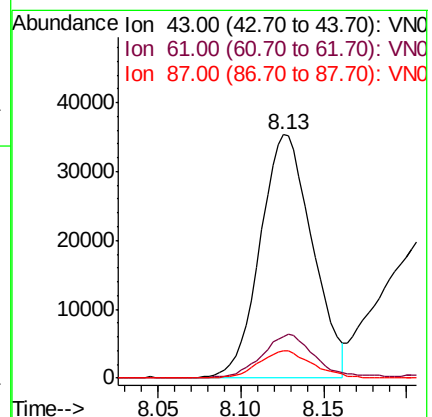
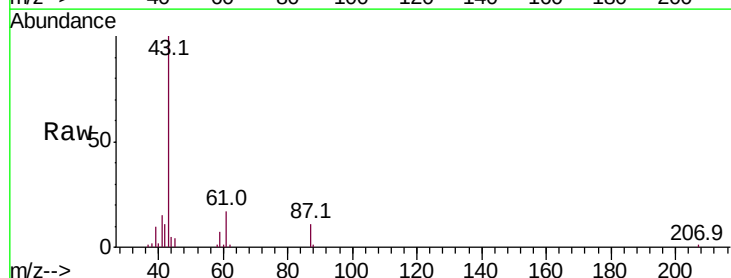
Instrument :
MSVOA_N
ClientSampleId :
PB131852ZHE#02

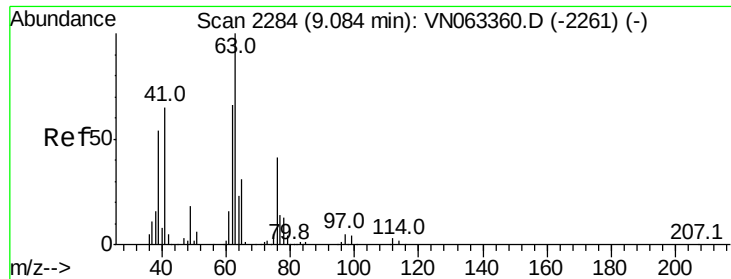
Tot Ion:	41	Resp:	637
Ion	Ratio	Lower	Upper
41	100		
39	22.6	0.0	0.0#
67	0.0	0.0	0.0
52	0.0	0.0	0.0



#43
Isopropyl Acetate
Concen: 10.381 ug/l
RT: 8.13 min Scan# 1986
Delta R.T. -0.00 min
Lab File: VN063657.D
Acq: 25 Sep 2020 3:49

Tgt Ion:	43	Resp:	77668
Ion	Ratio	Lower	Upper
43	100		
61	18.4	14.2	21.2
87	11.4	9.0	13.6





#45

1,2-Dichloropropane

Concen: 0.500 ug/l

RT: 9.24 min Scan# 2332

Delta R.T. 0.15 min

Lab File: VN063657.D

Acq: 25 Sep 2020 3:49

Instrument :

MSVOA_N

ClientSampleId :

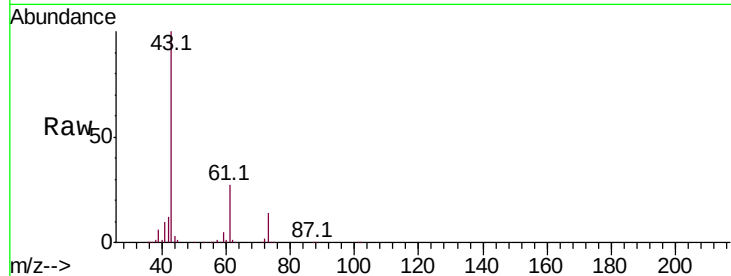
PB131852ZHE#02

Tot Ion: 63 Resp: 1658

Ion Ratio Lower Upper

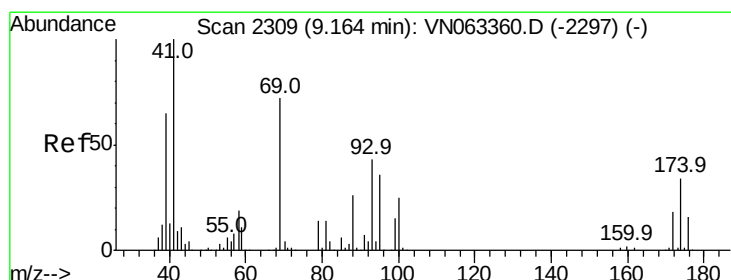
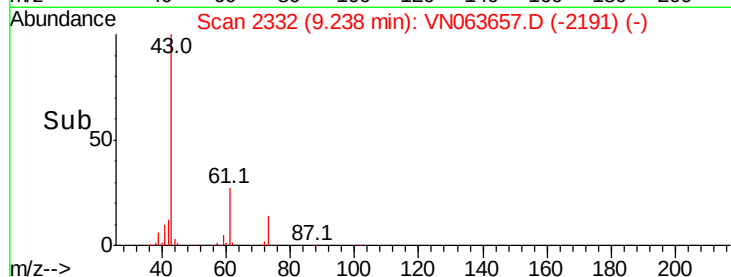
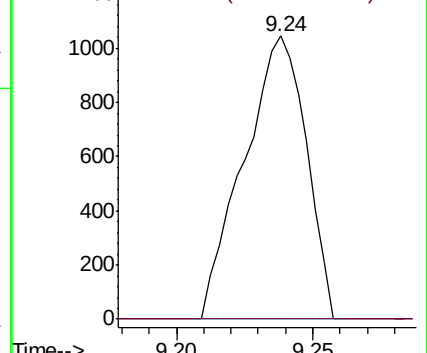
63 100

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: 1.275 ug/l

RT: 9.14 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN063657.D

Acq: 25 Sep 2020 3:49

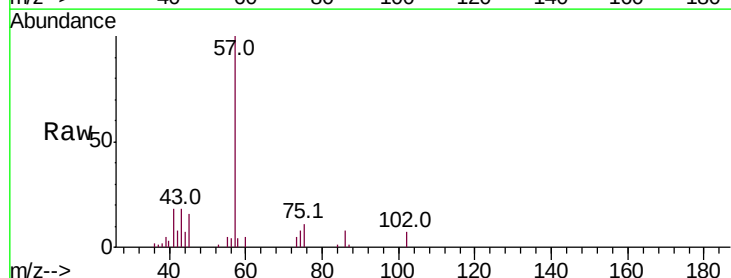
Tgt Ion: 41 Resp: 4686

Ion Ratio Lower Upper

41 100

69 0.0 59.3 88.9#

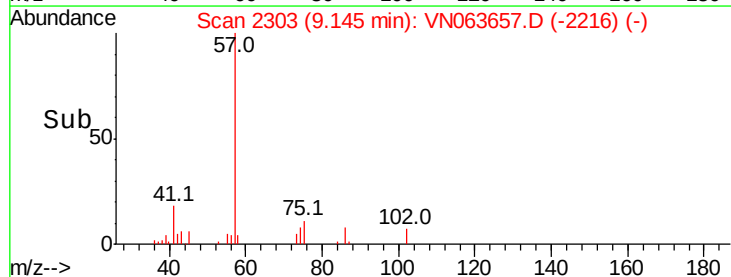
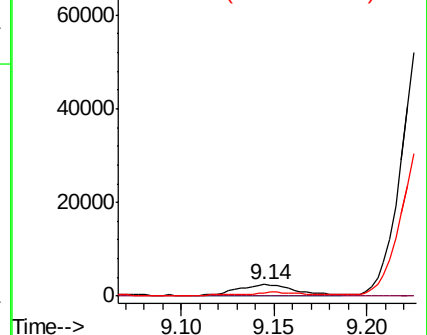
39 0.0 52.9 79.3#

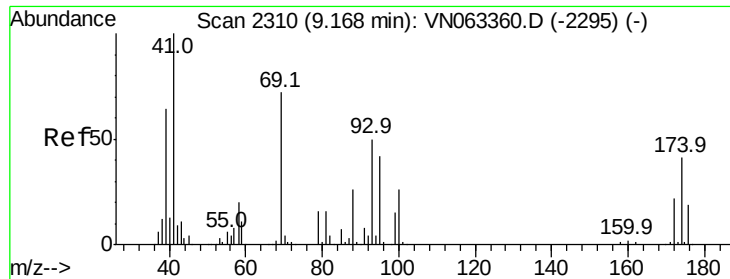


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#49

1,4-Dioxane

Concen: 3.242 ug/l

RT: 9.24 min Scan# 2333

Delta R.T. 0.07 min

Lab File: VN063657.D

Acq: 25 Sep 2020 3:49

Instrument :

MSVOA_N

ClientSampleId :

PB131852ZHE#02

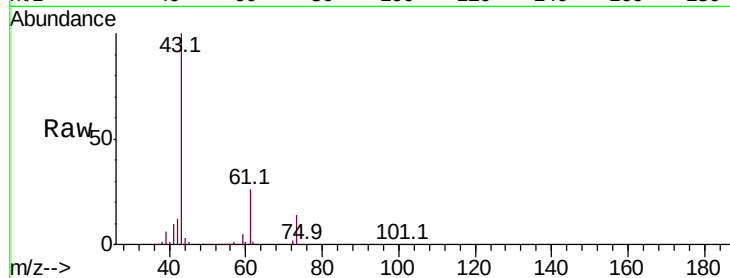
Tot Ion: 88 Resp: 171

Ion Ratio Lower Upper

88 100

43 795632.2 32.6 49.0#

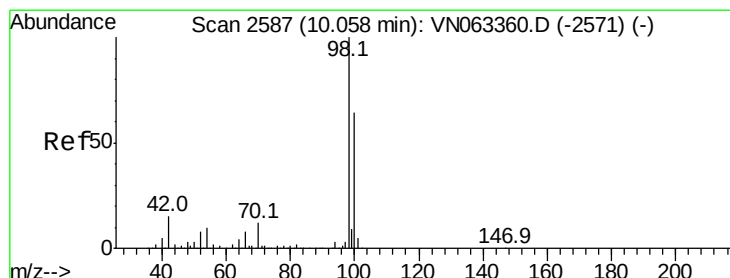
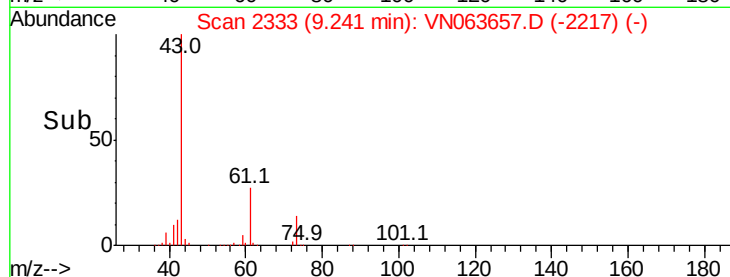
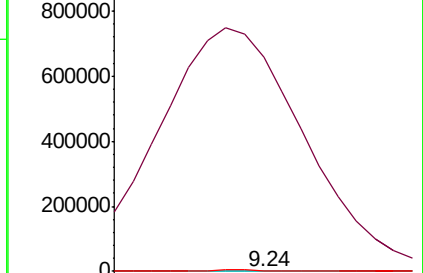
58 3774.3 60.0 90.0#



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



#50

Toluene-d8

Concen: 49.621 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063657.D

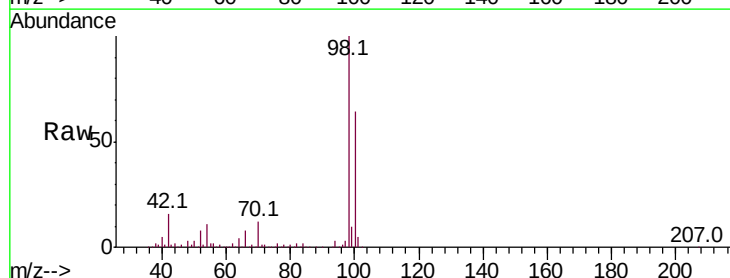
Acq: 25 Sep 2020 3:49

Tgt Ion: 98 Resp: 516914

Ion Ratio Lower Upper

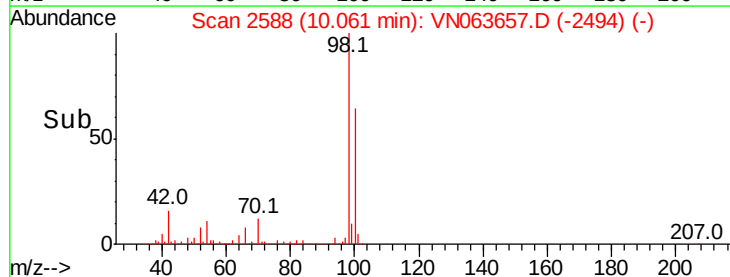
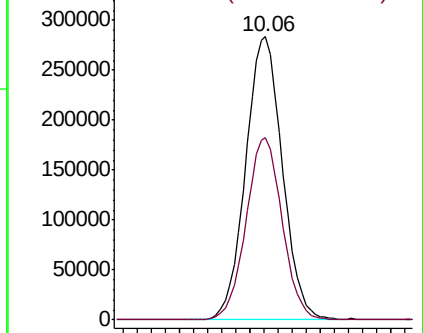
98 100

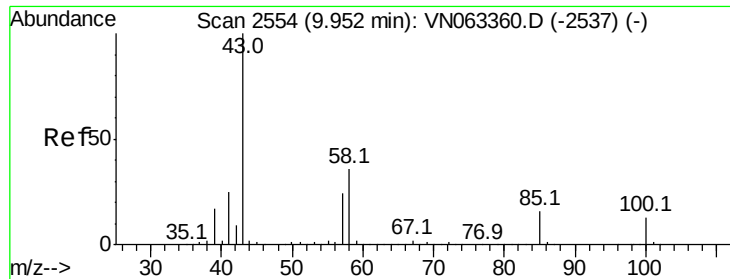
100 63.4 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 1.752 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN063657.D

Acq: 25 Sep 2020 3:49

Instrument :

MSVOA_N

ClientSampleId :

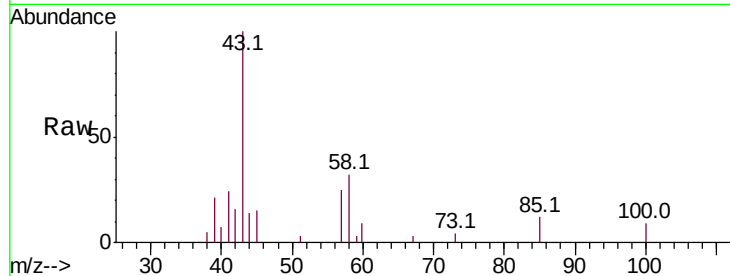
PB131852ZHE#02

Tot Ion: 43 Resp: 7337

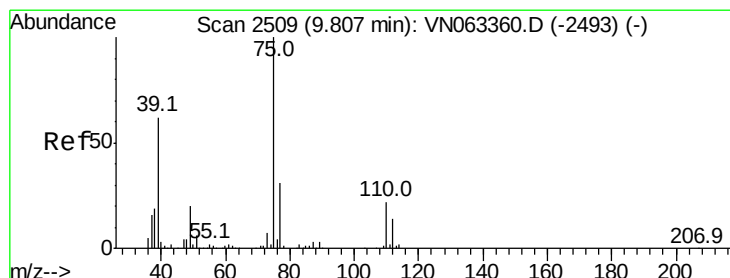
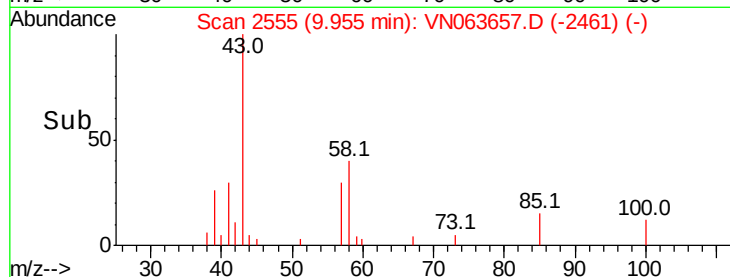
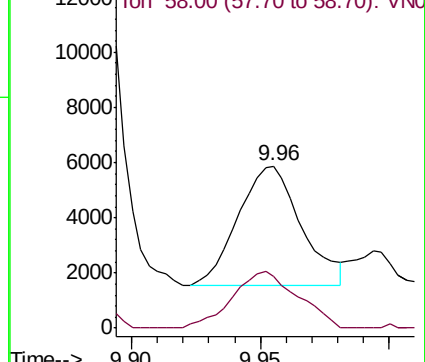
Ion Ratio Lower Upper

43 100

58 49.4 29.0 43.6#



Abundance Ion 43.00 (42.70 to 43.70): VN063360.D (-2537) (-)



#54

cis-1,3-Dichloropropene

Concen: 5.772 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063657.D

Acq: 25 Sep 2020 3:49

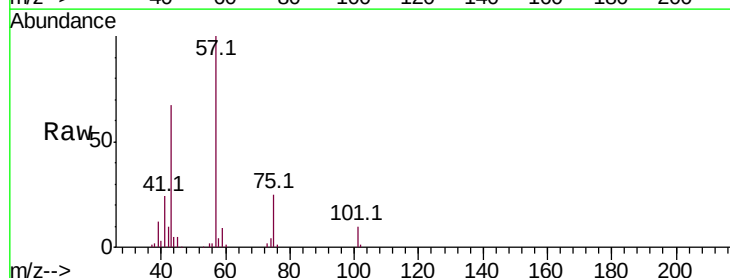
Tgt Ion: 75 Resp: 30764

Ion Ratio Lower Upper

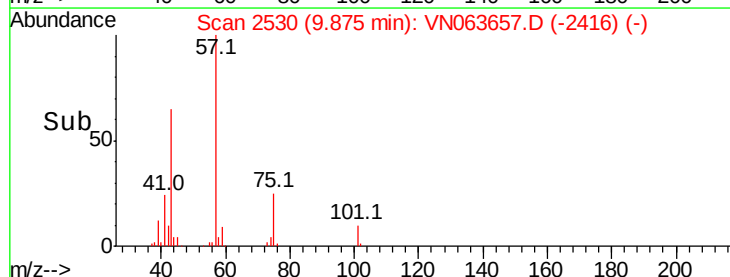
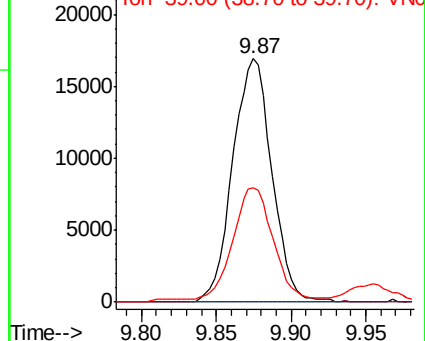
75 100

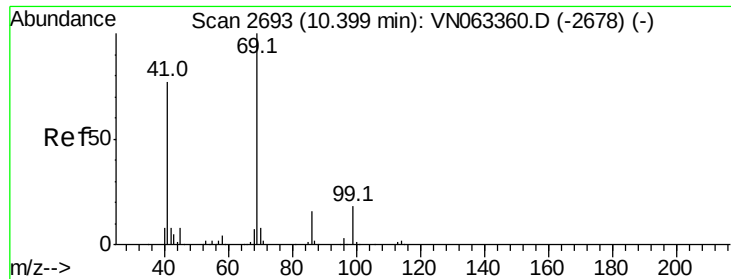
77 0.0 24.6 37.0#

39 46.1 49.8 74.8#



Abundance Ion 74.90 (74.60 to 75.60): VN063360.D (-2493) (-)





#56

Ethyl methacrylate

Concen: 0.348 ug/l

RT: 10.51 min Scan# 2729

Delta R.T. 0.12 min

Lab File: VN063657.D

Acq: 25 Sep 2020 3:49

Instrument :

MSVOA_N

ClientSampleId :

PB131852ZHE#02

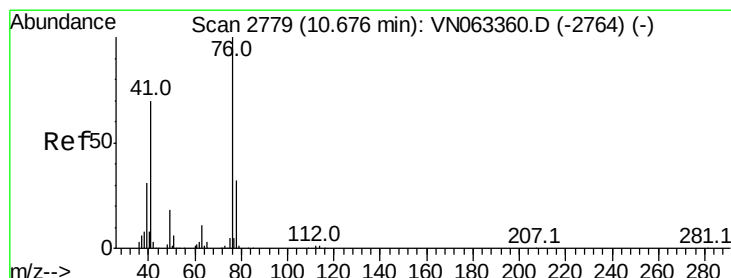
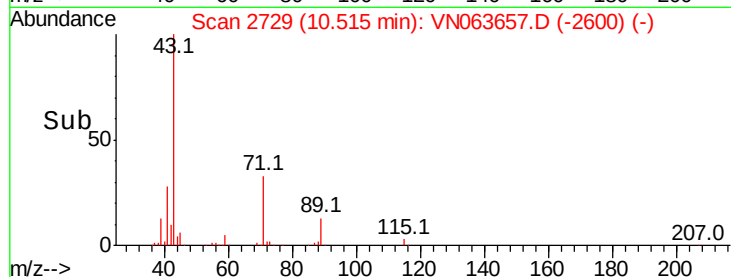
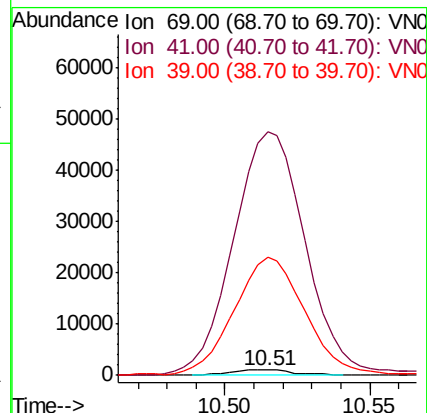
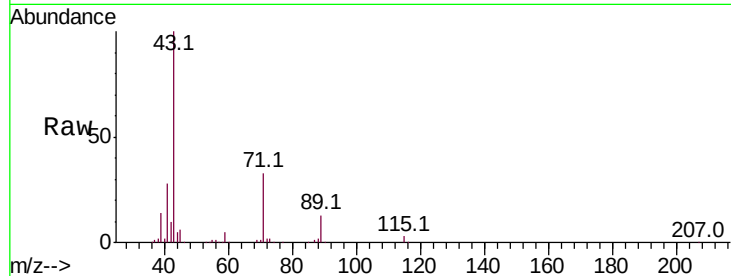
Tot Ion: 69 Resp: 1578

Ion Ratio Lower Upper

69 100

41 5244.5 61.0 91.6#

39 2427.0 39.2 58.8#



#57

1,3-Dichloropropane

Concen: 0.906 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063657.D

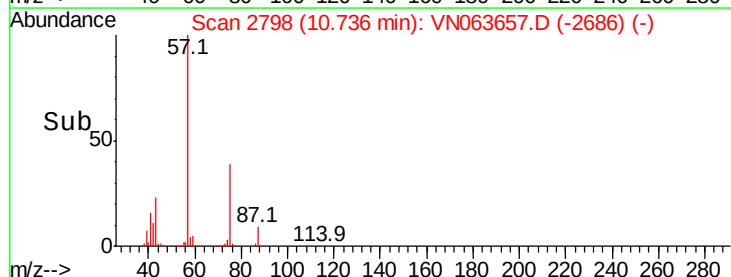
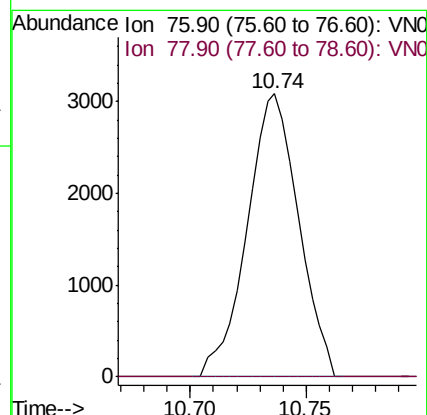
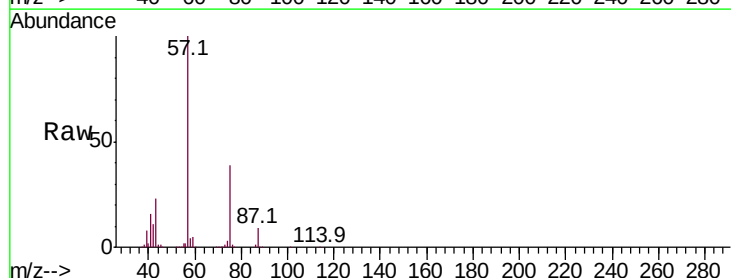
Acq: 25 Sep 2020 3:49

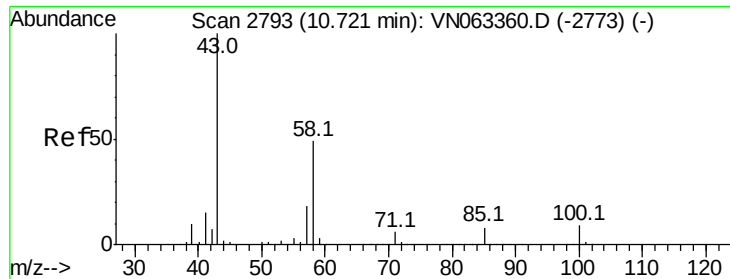
Tgt Ion: 76 Resp: 4750

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#





#59

2-Hexanone

Concen: 29.633 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063657.D

Acq: 25 Sep 2020 3:49

Instrument :

MSVOA_N

ClientSampleId :

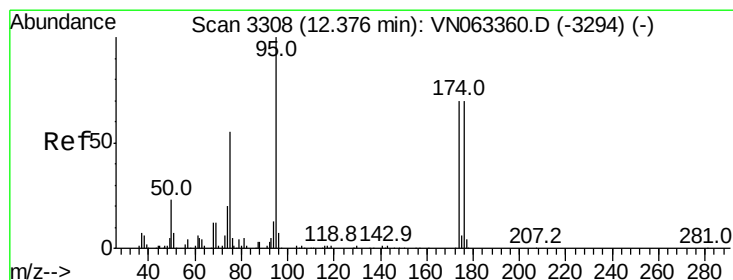
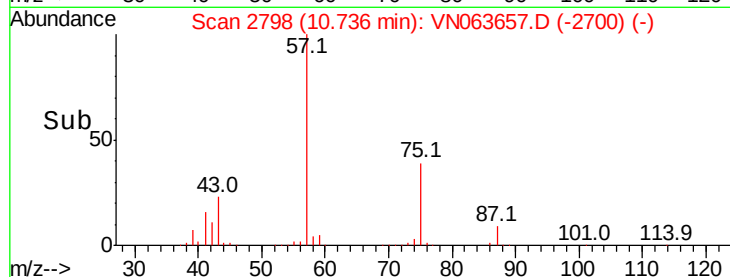
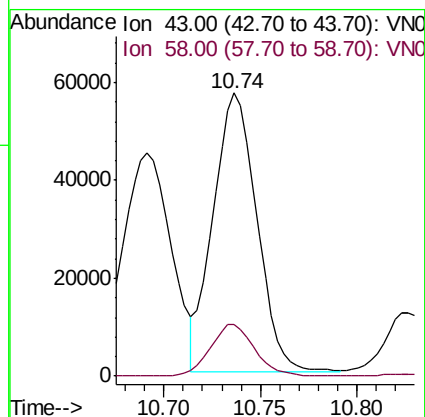
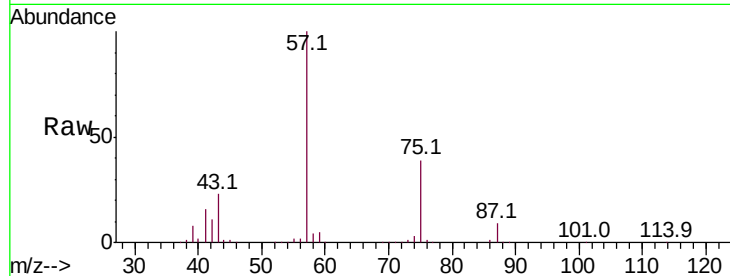
PB131852ZHE#02

Tot Ion: 43 Resp: 89925

Ion Ratio Lower Upper

43 100

58 18.6 24.7 74.1#



#62

4-Bromofluorobenzene

Concen: 52.640 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063657.D

Acq: 25 Sep 2020 3:49

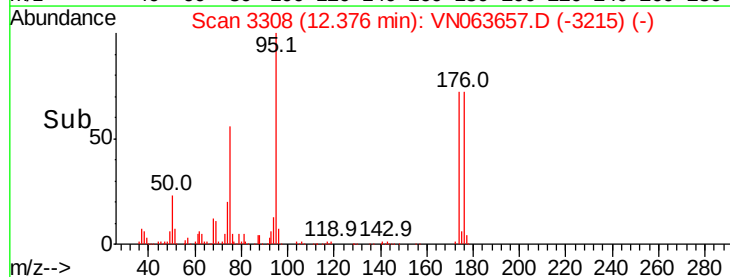
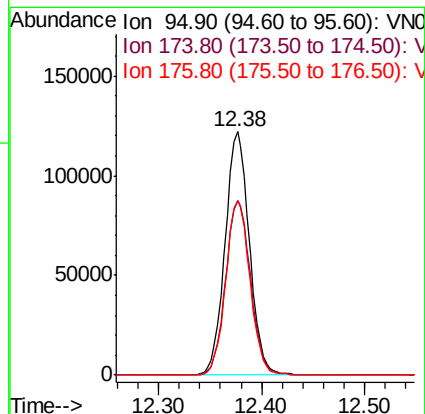
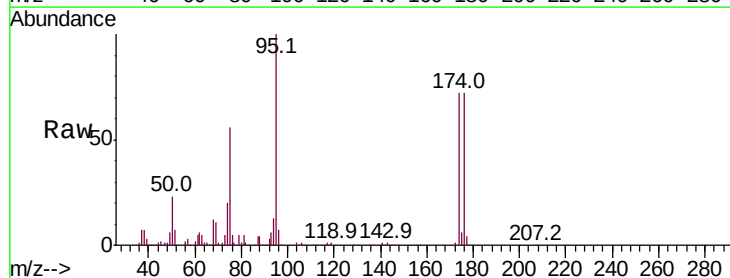
Tgt Ion: 95 Resp: 201021

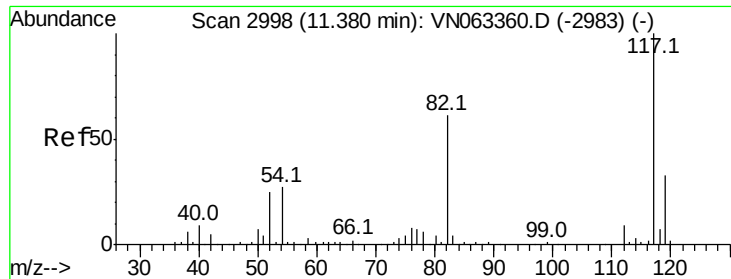
Ion Ratio Lower Upper

95 100

174 73.6 0.0 140.8

176 71.4 0.0 137.6

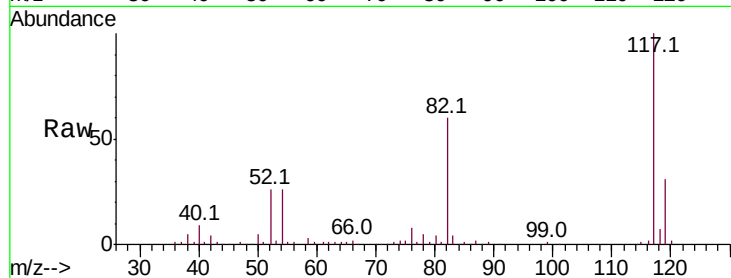




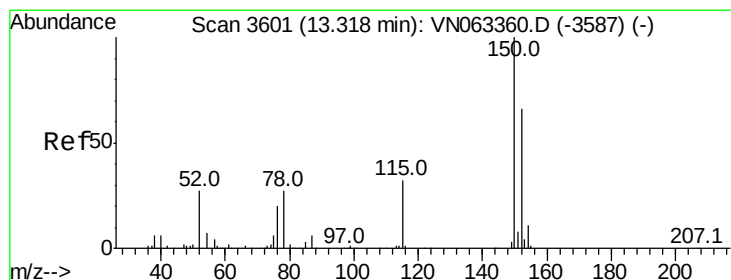
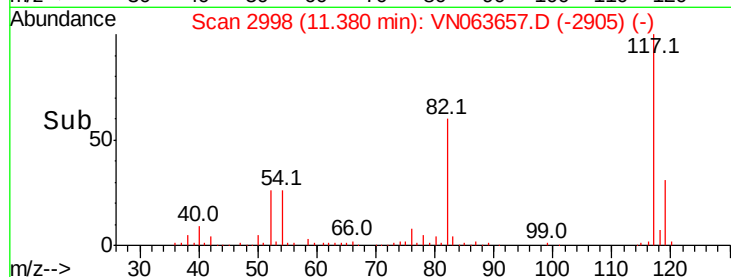
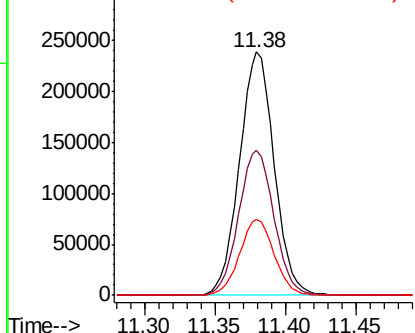
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063657.D
Acq: 25 Sep 2020 3:49

Instrument :
MSVOA_N
ClientSampleId :
PB131852ZHE#02

Tot Ion:117 Resp: 412687
Ion Ratio Lower Upper
117 100
82 59.6 49.2 73.8
119 31.5 26.2 39.4

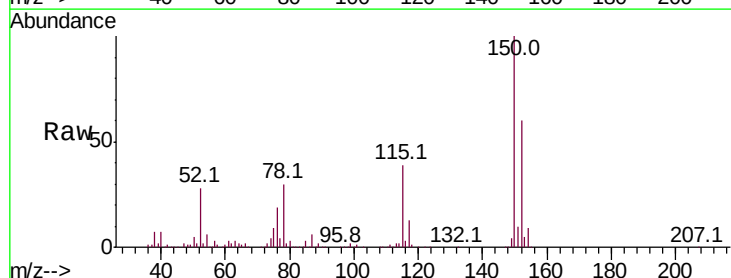


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

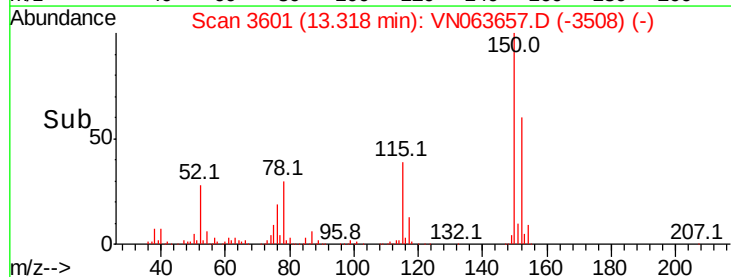
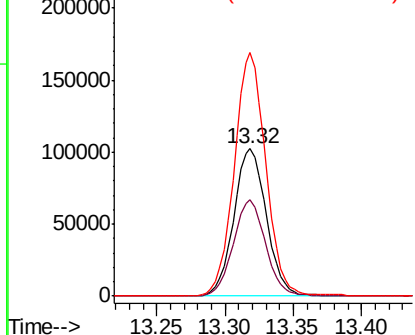


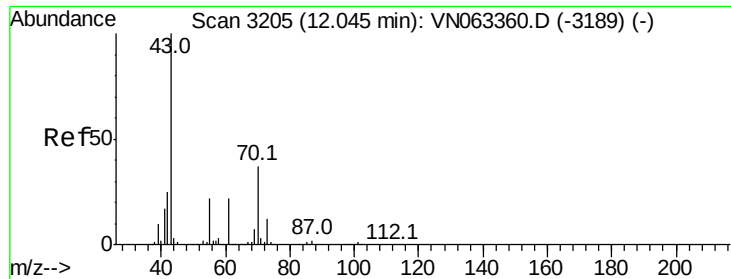
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. -0.00 min
Lab File: VN063657.D
Acq: 25 Sep 2020 3:49

Tgt Ion:152 Resp: 169914
Ion Ratio Lower Upper
152 100
115 64.6 32.2 96.6
150 160.5 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-amyl acetate

Concen: 0.293 ug/l

RT: 12.00 min Scan# 3192

Delta R.T. -0.04 min

Lab File: VN063657.D

Acq: 25 Sep 2020 3:49

Instrument :

MSVOA_N

ClientSampleId :

PB131852ZHE#02

Tot Ion: 43 Resp: 1886

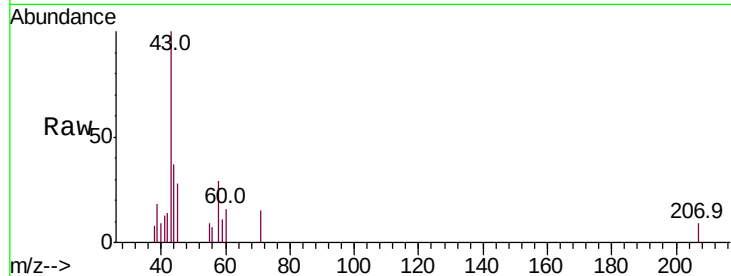
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 11.3 17.7 26.5#

61 0.0 17.4 26.2#

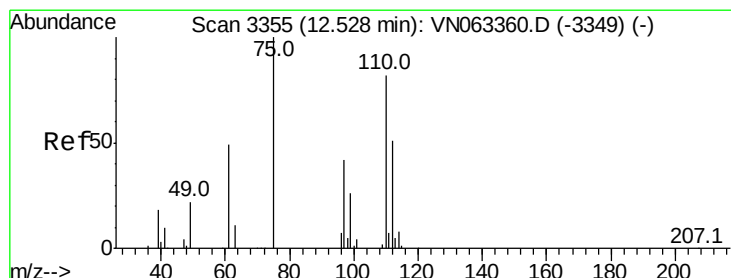
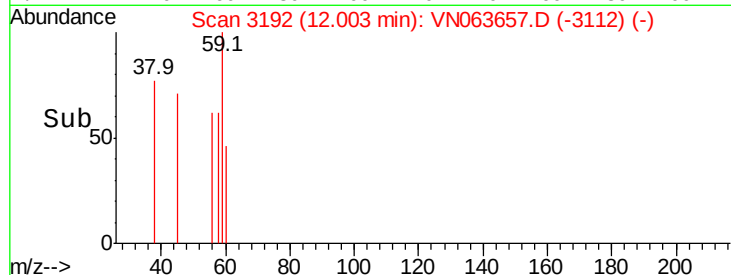
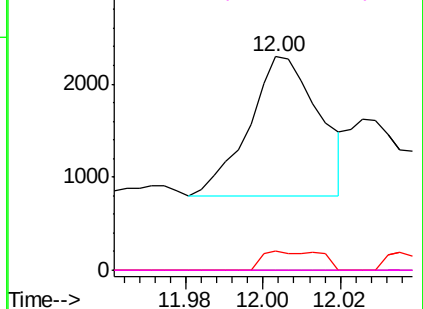


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 27.669 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063657.D

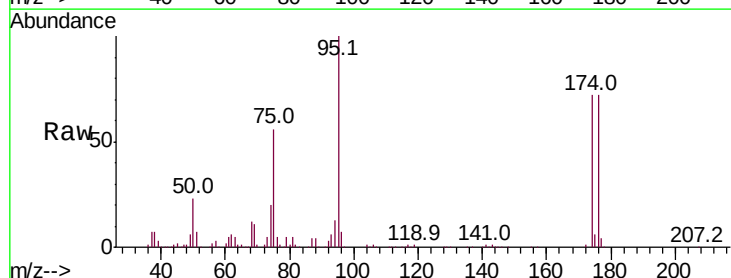
Acq: 25 Sep 2020 3:49

Tgt Ion: 75 Resp: 116365

Ion Ratio Lower Upper

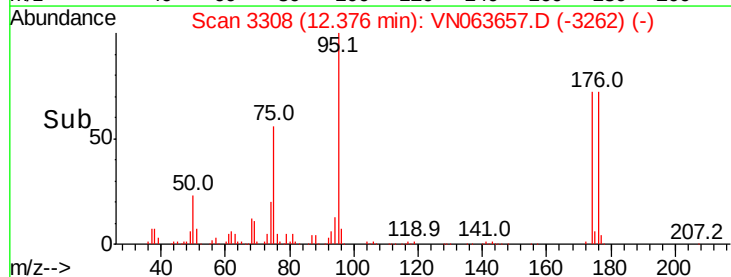
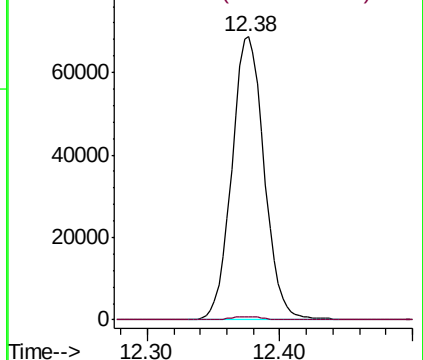
75 100

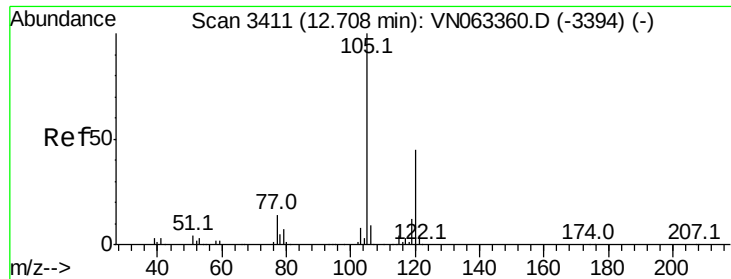
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#80

1,3,5-Trimethylbenzene

Concen: 0.293 ug/l

RT: 12.71 min Scan# 3411

Delta R.T. -0.00 min

Lab File: VN063657.D

Acq: 25 Sep 2020 3:49

Instrument :

MSVOA_N

ClientSampleId :

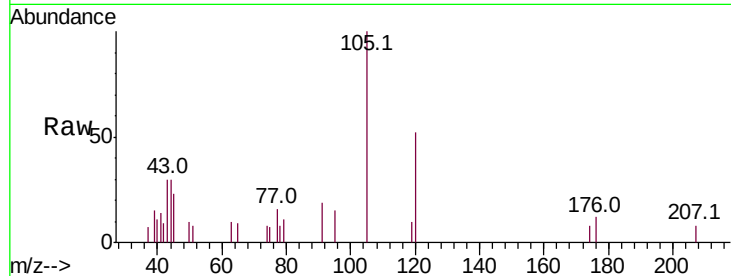
PB131852ZHE#02

Tot Ion:105 Resp: 3324

Ion Ratio Lower Upper

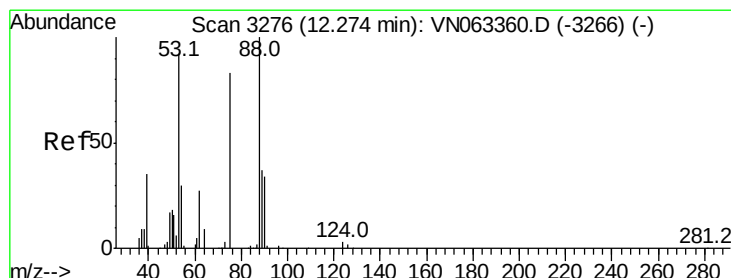
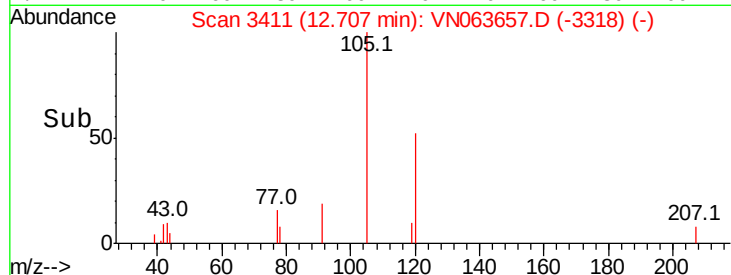
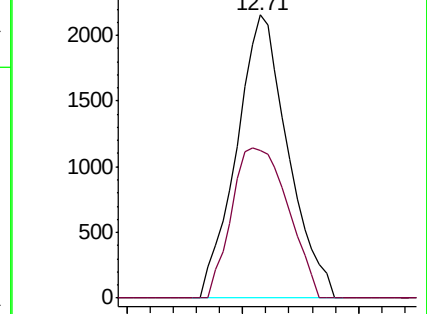
105 100

120 58.0 22.9 68.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 75.858 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063657.D

Acq: 25 Sep 2020 3:49

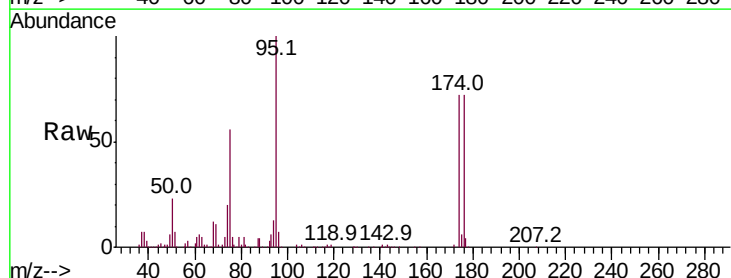
Tgt Ion: 75 Resp: 116365

Ion Ratio Lower Upper

75 100

53 0.1 85.7 128.5#

89 0.0 38.0 57.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

