

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102120\
 Data File : VN064244.D
 Acq On : 22 Oct 2020 3:50
 Operator : JC/MD
 Sample : PB132513ZHE#09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB132513ZHE#09

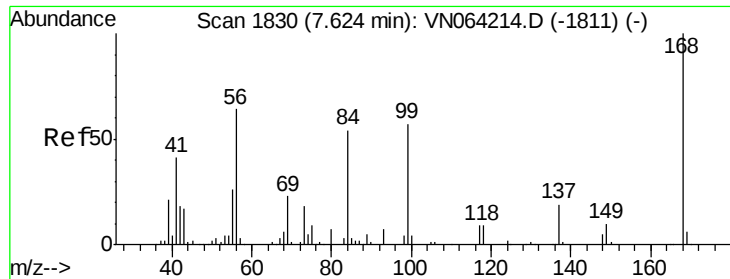
Quant Time: Oct 22 05:53:30 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N102120W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 21 12:48:40 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	262549	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	458607	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	459722	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	210763	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	204010	52.32	ug/l	0.00
Spiked Amount			Recovery	=	104.64%	
35) Dibromofluoromethane	7.55	113	149009	48.87	ug/l	0.00
Spiked Amount			Recovery	=	97.74%	
50) Toluene-d8	10.06	98	583697	52.77	ug/l	0.00
Spiked Amount			Recovery	=	105.54%	
62) 4-Bromofluorobenzene	12.38	95	262057	58.45	ug/l	0.00
Spiked Amount			Recovery	=	116.90%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	430	0.824	ug/l #	70
16) Acetone	3.79	43	10271	9.207	ug/l	97
18) Methyl Acetate	4.27	43	1160	0.408	ug/l	98
20) Methylene Chloride	4.50	84	7461	2.508	ug/l	94
25) 2-Butanone	6.78	43	2198	1.240	ug/l	98
29) Tetrahydrofuran	7.17	42	1431	1.350	ug/l #	69
31) Cyclohexane	7.62	56	6046	1.308	ug/l #	26
36) 1,1-Dichloropropene	7.63	75	22062	4.825	ug/l #	51
38) Carbon Tetrachloride	7.62	117	27888	5.361	ug/l #	15
43) Isopropyl Acetate	8.13	43	92391	11.942	ug/l #	90
45) 1,2-Dichloropropane	9.23	63	1496	0.444	ug/l #	45
48) Methyl methacrylate	9.14	41	4978	1.232	ug/l #	17
49) 1,4-Dioxane	9.24	88	207	4.378	ug/l #	1
51) 4-Methyl-2-Pentanone	9.96	43	6657	1.610	ug/l	91
52) Toluene	10.12	92	1663	0.206	ug/l	84
54) cis-1,3-Dichloropropene	9.87	75	35597	6.089	ug/l #	60
57) 1,3-Dichloropropane	10.74	76	5559	1.049	ug/l #	42
59) 2-Hexanone	10.74	43	95824	31.734	ug/l #	54
74) N-amyl acetate	12.01	43	5069	0.730	ug/l #	47
76) 1,2,3-Trichloropropane	12.37	75	136999	30.833	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.37	75	136999	77.845	ug/l #	9

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN064244.D

Acq: 22 Oct 2020 3:50

Instrument :

MSVOA_N

ClientSampleId :

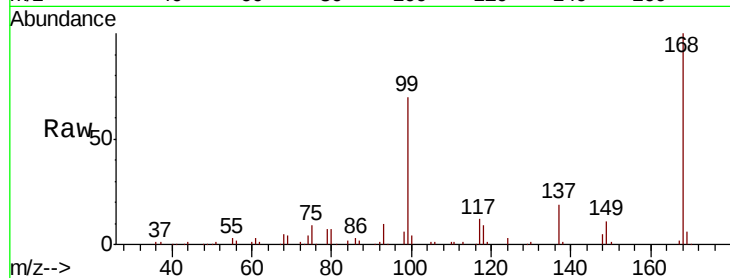
PB132513ZHE#09

Tot Ion:168 Resp: 262549

Ion Ratio Lower Upper

168 100

99 69.7 54.0 81.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

120000

100000

80000

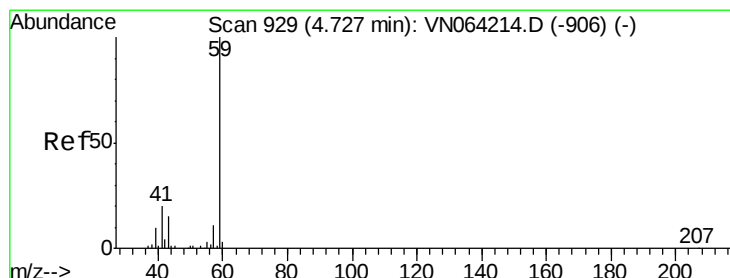
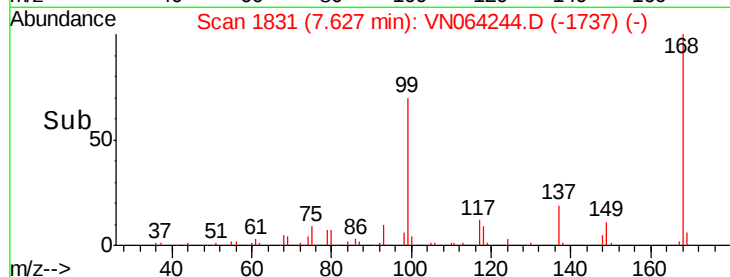
60000

40000

20000

0

Time--> 7.50 7.60 7.70 7.80



#11

Tert butyl alcohol

Concen: 0.824 ug/l

RT: 4.73 min Scan# 931

Delta R.T. 0.01 min

Lab File: VN064244.D

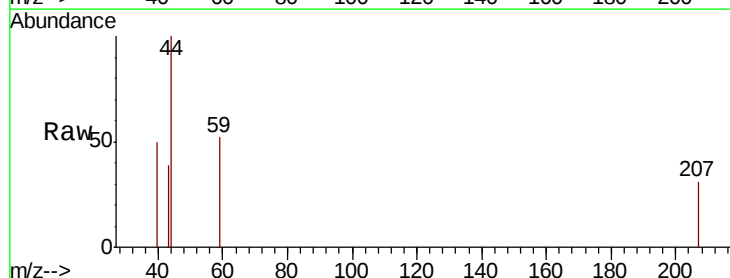
Acq: 22 Oct 2020 3:50

Tgt Ion: 59 Resp: 430

Ion Ratio Lower Upper

59 100

57 0.0 9.2 13.8#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.73

300

250

200

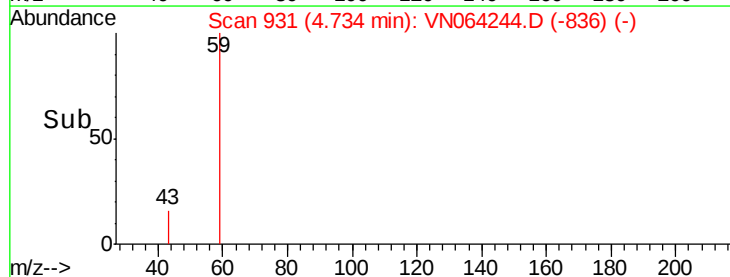
150

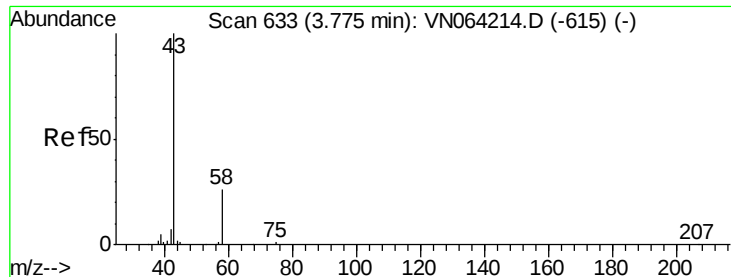
100

50

0

Time--> 4.70 4.72 4.74 4.76





#16

Acetone

Concen: 9.207 ug/l

RT: 3.79 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN064244.D

Acq: 22 Oct 2020 3:50

Instrument :

MSVOA_N

ClientSampleId :

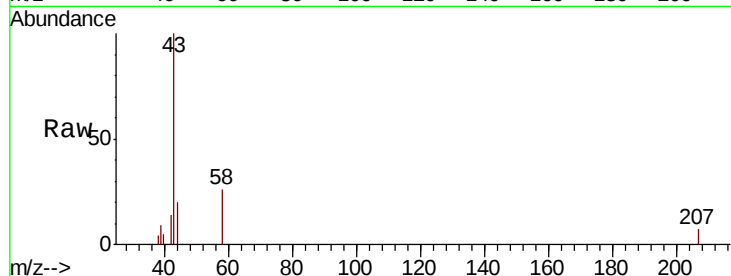
PB132513ZHE#09

Tot Ion: 43 Resp: 10271

Ion Ratio Lower Upper

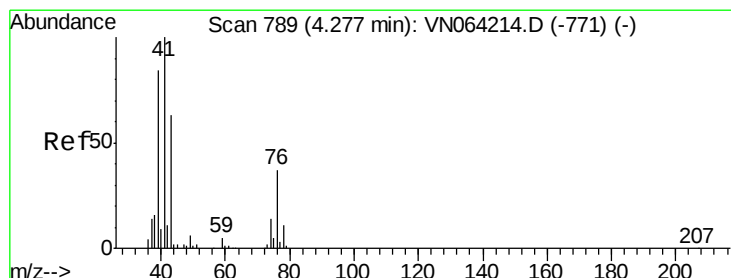
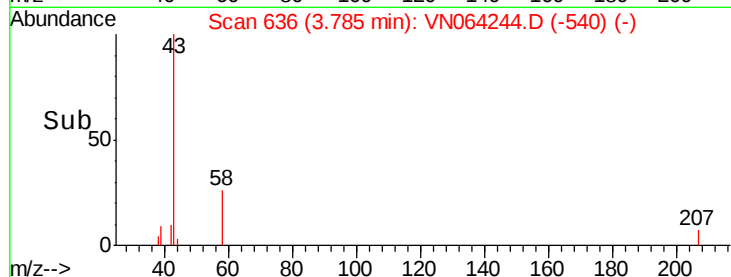
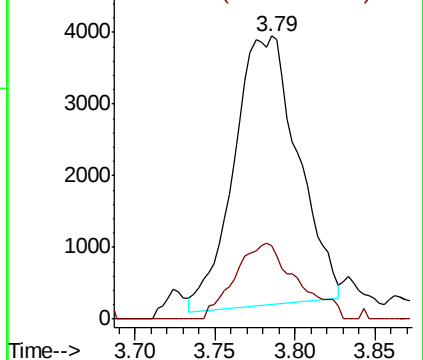
43 100

58 28.0 21.0 31.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 0.408 ug/l

RT: 4.27 min Scan# 788

Delta R.T. -0.00 min

Lab File: VN064244.D

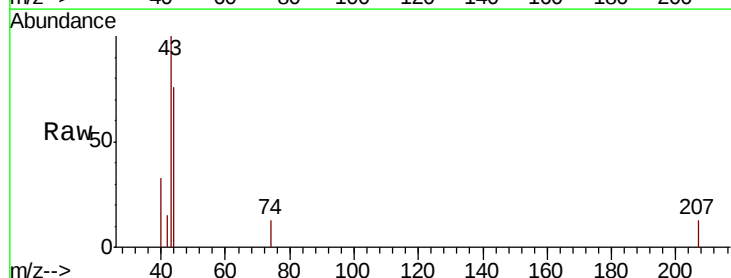
Acq: 22 Oct 2020 3:50

Tgt Ion: 43 Resp: 1160

Ion Ratio Lower Upper

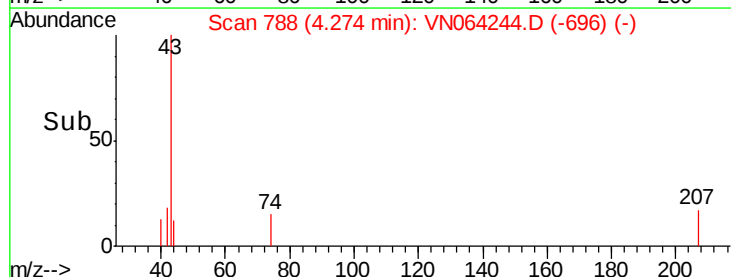
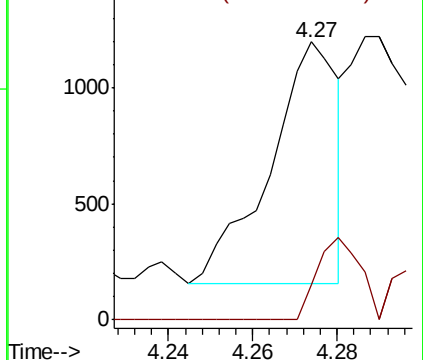
43 100

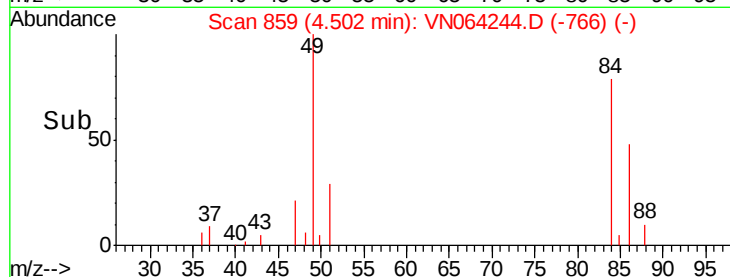
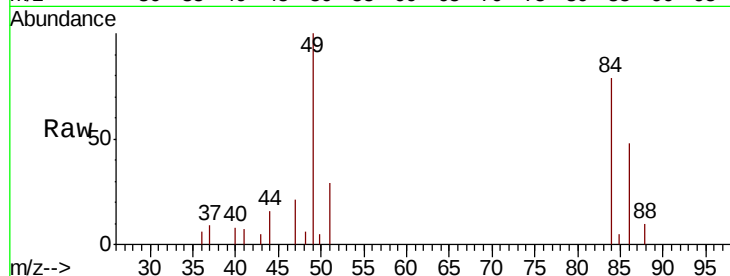
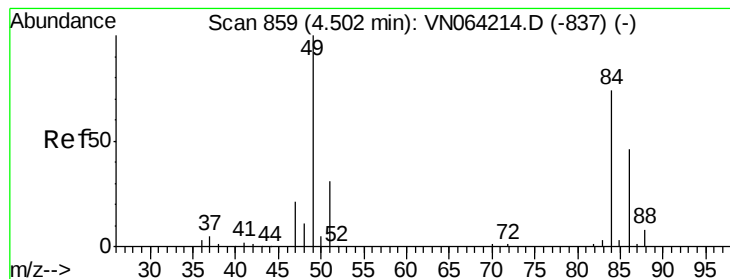
74 21.6 17.9 26.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#20

Methylene Chloride

Concen: 2.508 ug/l

RT: 4.50 min Scan# 859

Delta R.T. 0.00 min

Lab File: VN064244.D

Acq: 22 Oct 2020 3:50

Instrument :

MSVOA_N

ClientSampleId :

PB132513ZHE#09

Tot Ion: 84 Resp: 7461

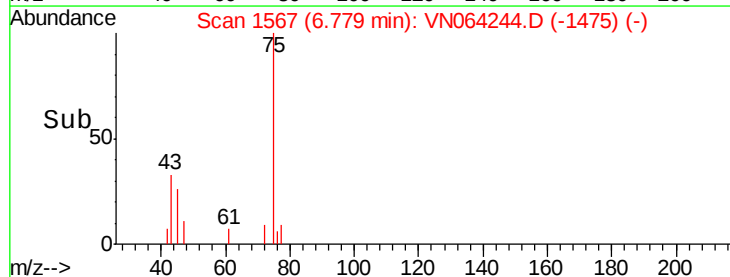
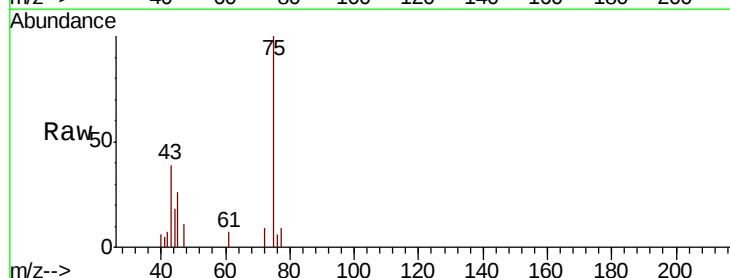
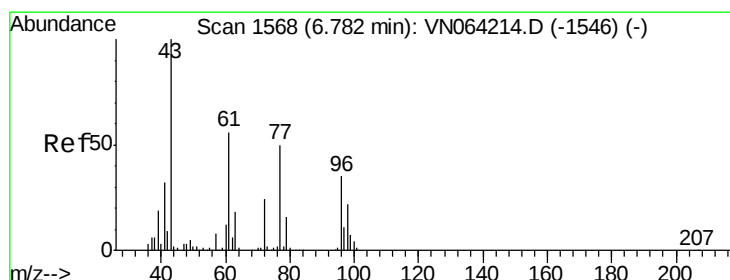
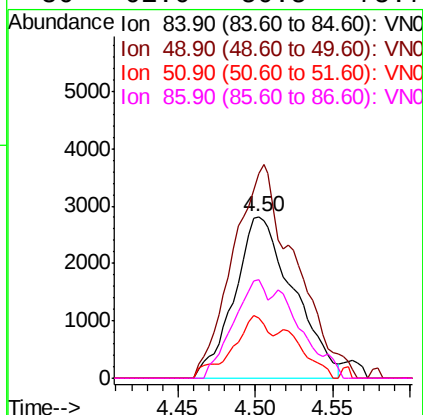
Ion Ratio Lower Upper

84 100

49 126.4 108.5 162.7

51 37.1 33.8 50.8

86 61.0 50.5 75.7



#25

2-Butanone

Concen: 1.240 ug/l

RT: 6.78 min Scan# 1567

Delta R.T. -0.00 min

Lab File: VN064244.D

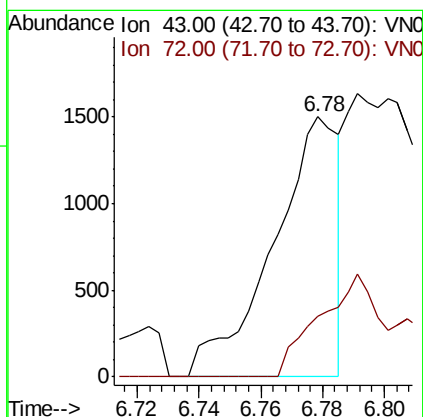
Acq: 22 Oct 2020 3:50

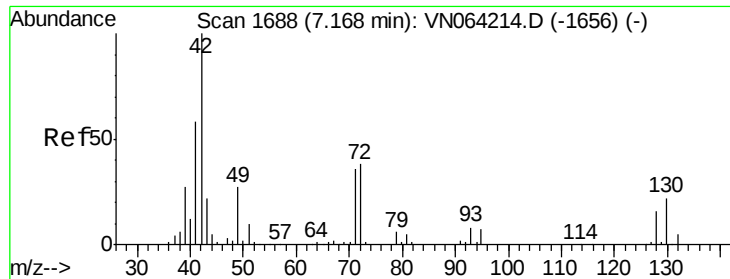
Tgt Ion: 43 Resp: 2198

Ion Ratio Lower Upper

43 100

72 23.3 19.4 29.0





#29

Tetrahydrofuran

Concen: 1.350 ug/l

RT: 7.17 min Scan# 1690

Delta R.T. 0.01 min

Lab File: VN064244.D

Acq: 22 Oct 2020 3:50

Instrument :

MSVOA_N

ClientSampleId :

PB132513ZHE#09

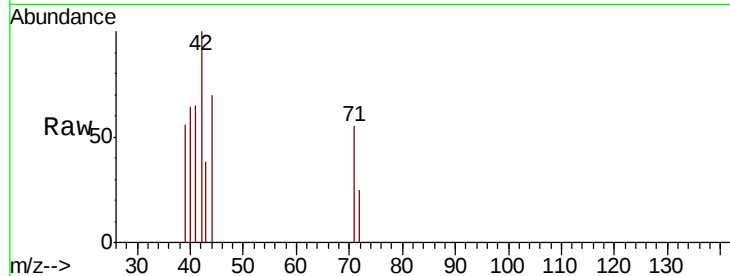
Tot Ion: 42 Resp: 1431

Ion Ratio Lower Upper

42 100

72 9.3 30.8 46.2#

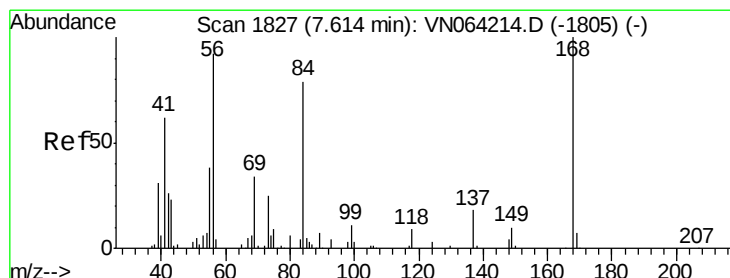
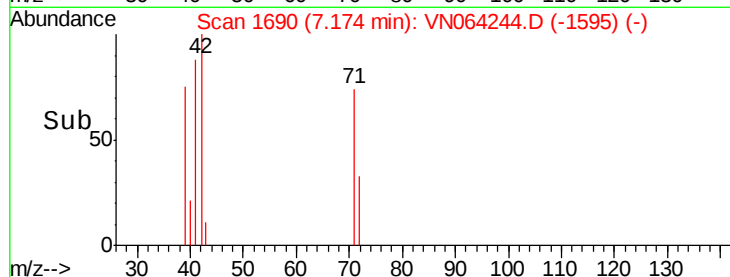
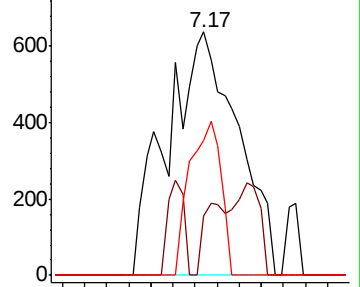
71 28.2 29.0 43.6#



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: 1.308 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN064244.D

Acq: 22 Oct 2020 3:50

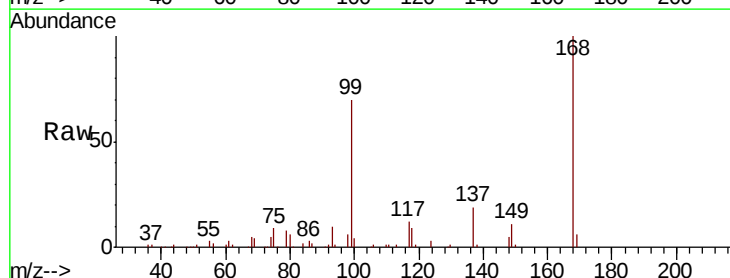
Tgt Ion: 56 Resp: 6046

Ion Ratio Lower Upper

56 100

69 170.2 29.8 44.6#

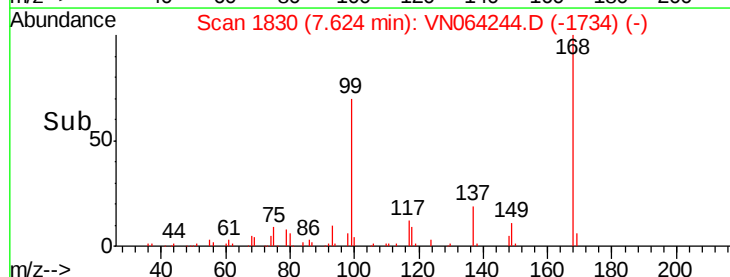
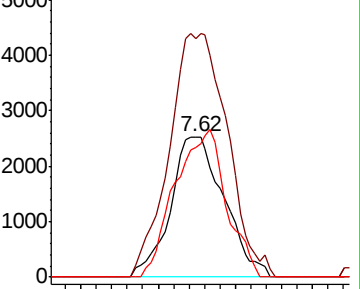
84 92.9 68.1 102.1

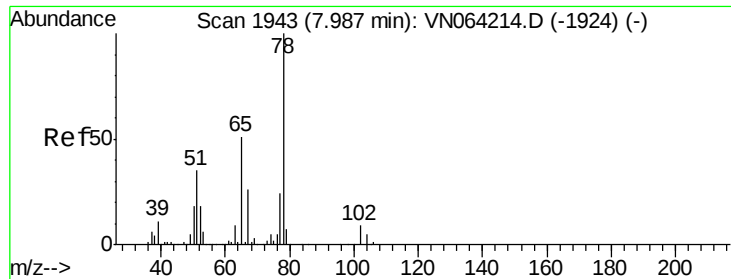


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

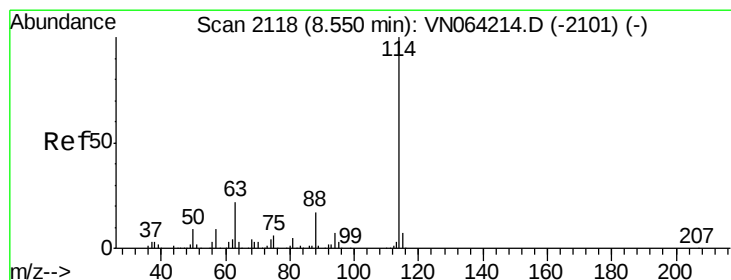
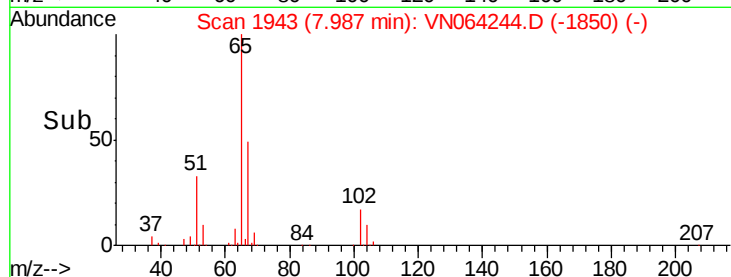
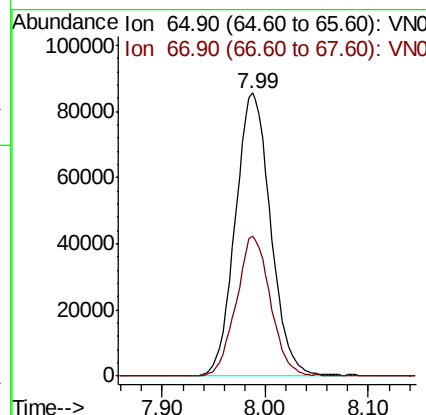
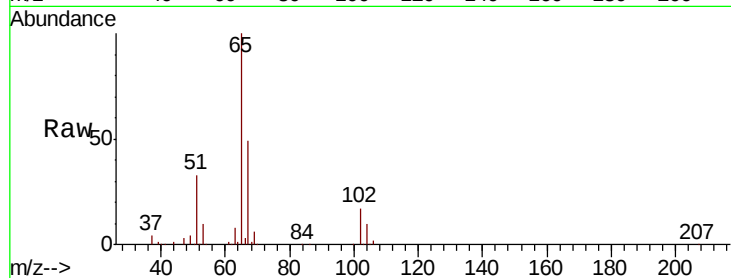




#33
 1,2-Dichloroethane-d4
 Concen: 52.323 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. 0.00 min
 Lab File: VN064244.D
 Acq: 22 Oct 2020 3:50

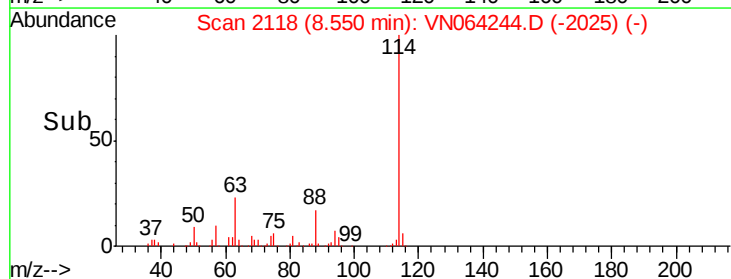
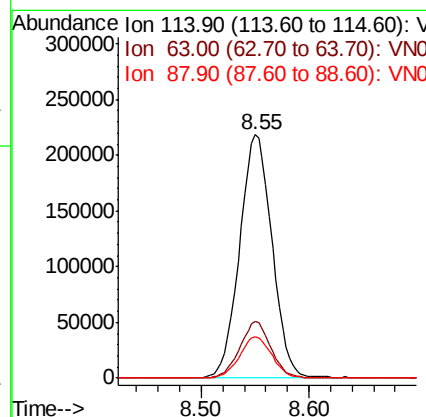
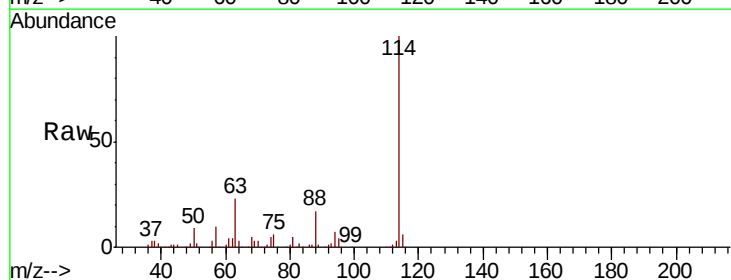
Instrument :
 MSVOA_N
 ClientSampleId :
 PB132513ZHE#09

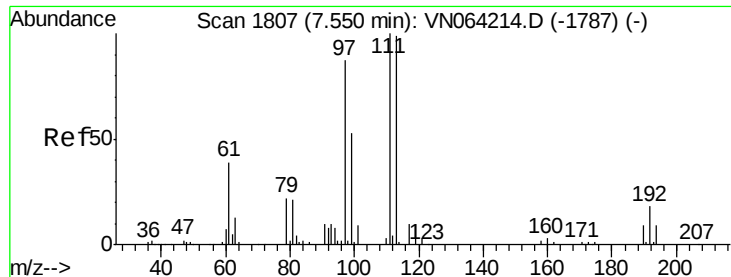
Tot Ion: 65 Resp: 204010
 Ion Ratio Lower Upper
 65 100
 67 47.7 0.0 100.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN064244.D
 Acq: 22 Oct 2020 3:50

Tgt Ion: 114 Resp: 458607
 Ion Ratio Lower Upper
 114 100
 63 23.2 0.0 44.0
 88 17.0 0.0 34.2

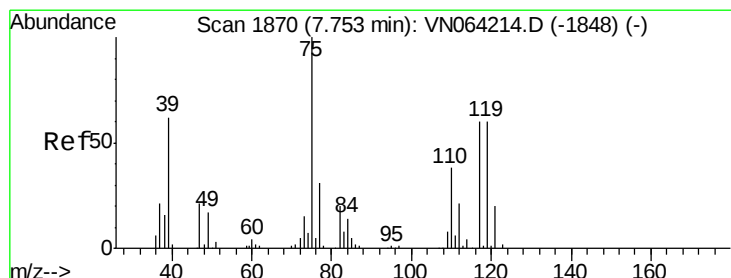
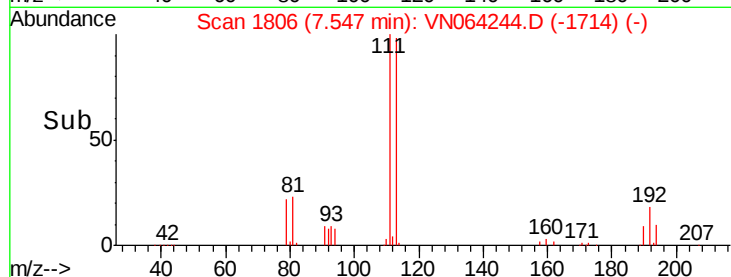
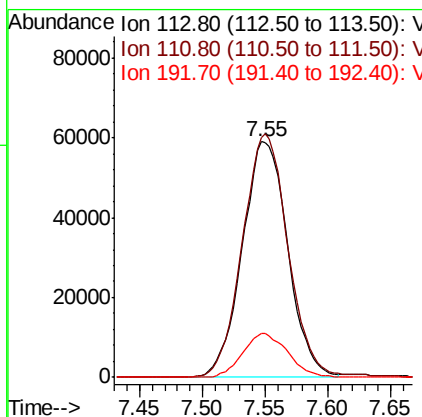
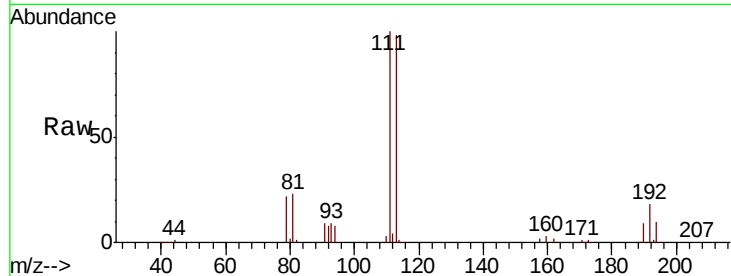




#35
 Dibromofluoromethane
 Concen: 48.871 ug/l
 RT: 7.55 min Scan# 1806
 Delta R.T. -0.00 min
 Lab File: VN064244.D
 Acq: 22 Oct 2020 3:50

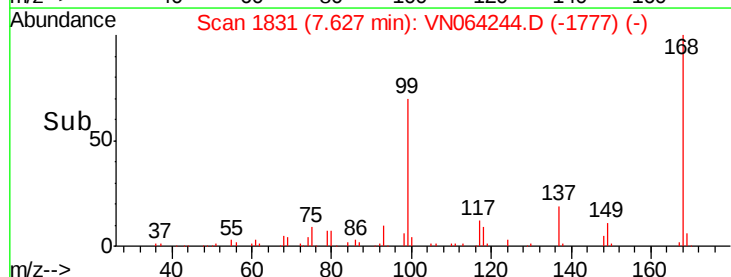
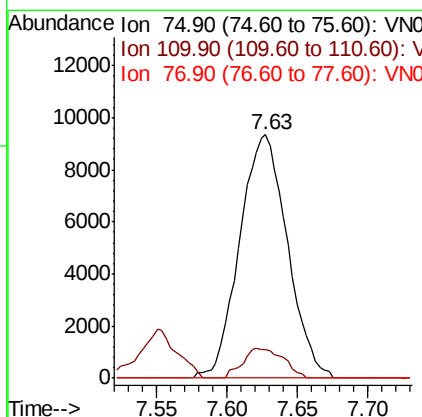
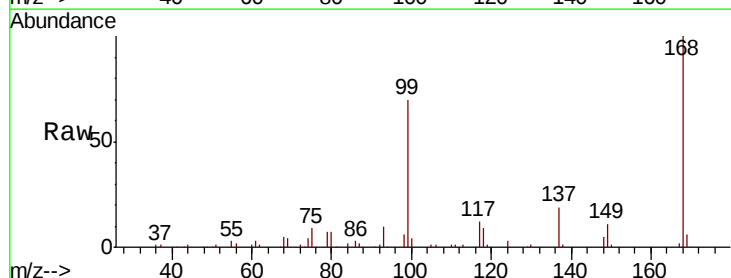
Instrument :
 MSVOA_N
 ClientSampleId :
 PB132513ZHE#09

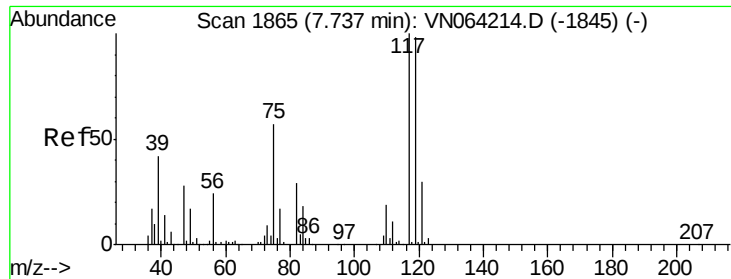
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.2	84.2	126.2
192	18.4	15.2	22.8



#36
 1,1-Dichloropropene
 Concen: 4.825 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN064244.D
 Acq: 22 Oct 2020 3:50

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.4	17.2	51.6#
77	0.0	24.9	37.3#





#38

Carbon Tetrachloride

Concen: 5.361 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN064244.D

Acq: 22 Oct 2020 3:50

Instrument :

MSVOA_N

ClientSampleId :

PB132513ZHE#09

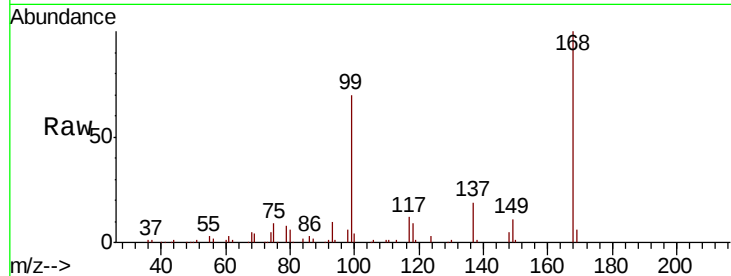
Tot Ion:117 Resp: 27888

Ion Ratio Lower Upper

117 100

119 4.7 78.5 117.7#

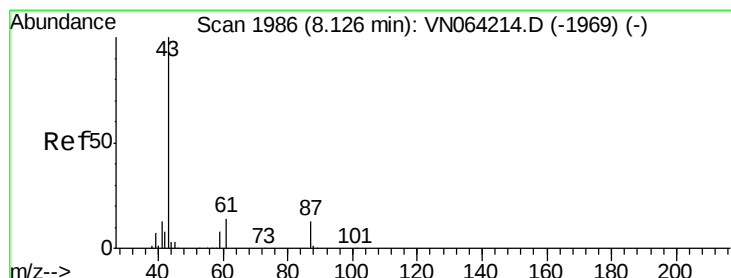
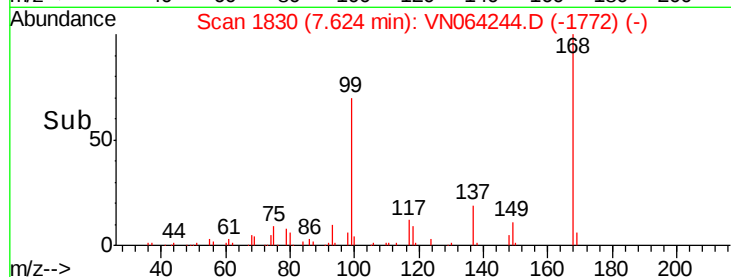
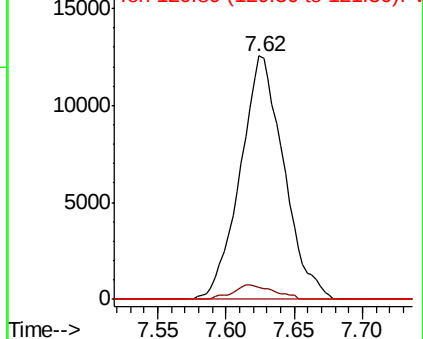
121 0.0 24.3 36.5#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 11.942 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. 0.00 min

Lab File: VN064244.D

Acq: 22 Oct 2020 3:50

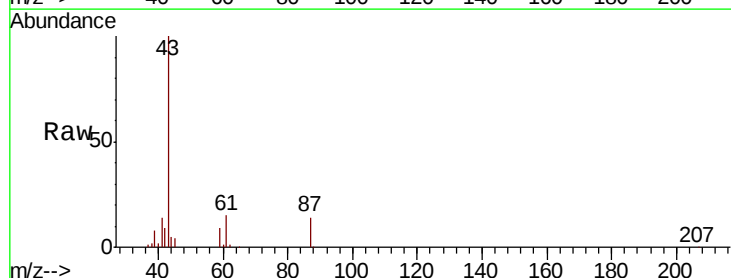
Tgt Ion: 43 Resp: 92391

Ion Ratio Lower Upper

43 100

61 17.3 19.6 29.4#

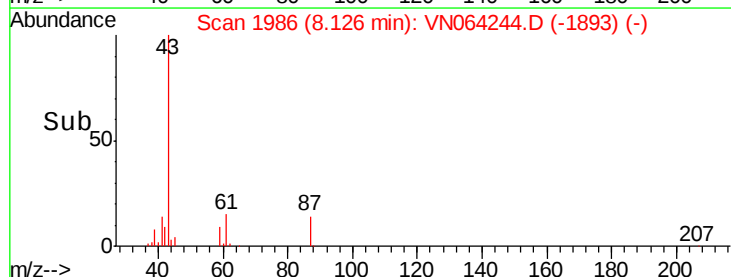
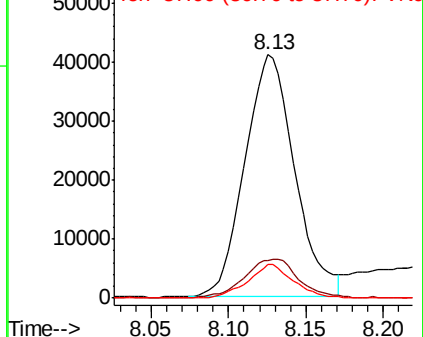
87 12.6 9.8 14.6

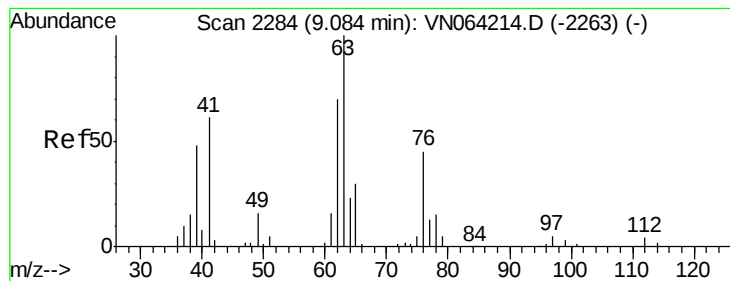


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#45

1,2-Dichloropropane

Concen: 0.444 ug/l

RT: 9.23 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN064244.D

Acq: 22 Oct 2020 3:50

Instrument :

MSVOA_N

ClientSampleId :

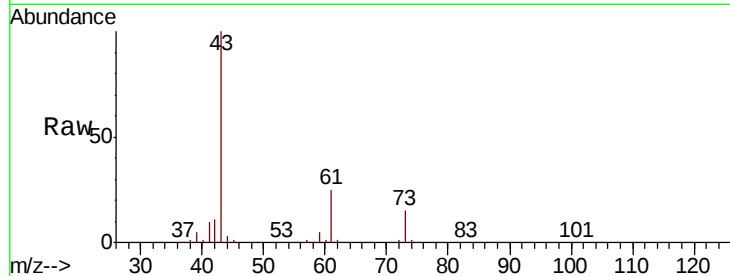
PB132513ZHE#09

Tot Ion: 63 Resp: 1496

Ion Ratio Lower Upper

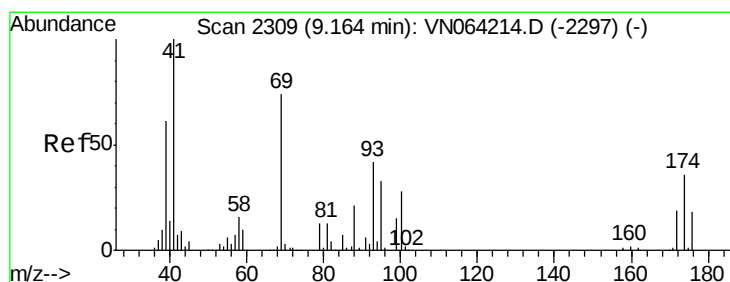
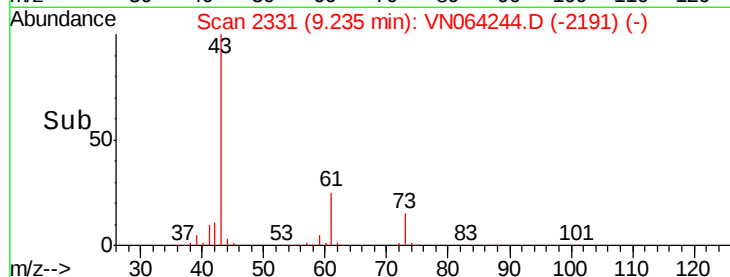
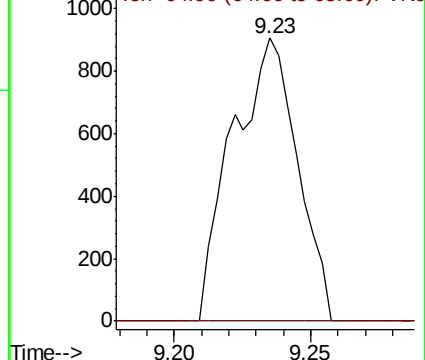
63 100

65 0.0 24.0 36.0#



Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO



#48

Methyl methacrylate

Concen: 1.232 ug/l

RT: 9.14 min Scan# 2301

Delta R.T. -0.03 min

Lab File: VN064244.D

Acq: 22 Oct 2020 3:50

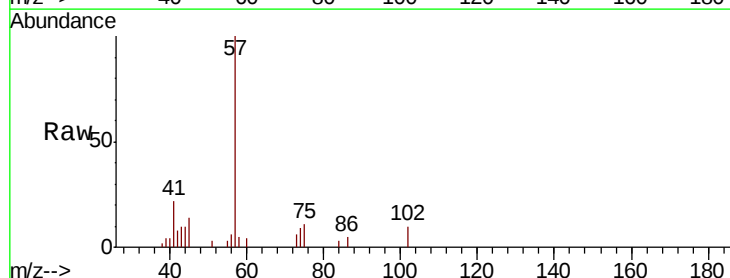
Tgt Ion: 41 Resp: 4978

Ion Ratio Lower Upper

41 100

69 0.0 57.3 85.9#

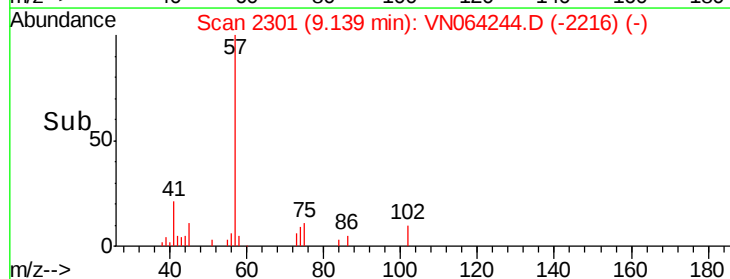
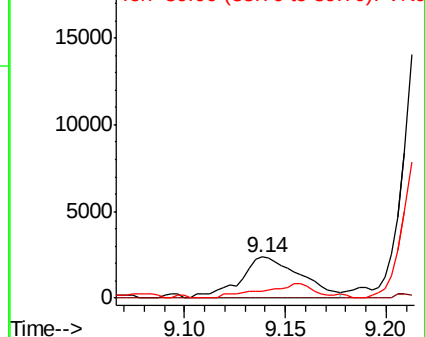
39 0.0 48.6 73.0#

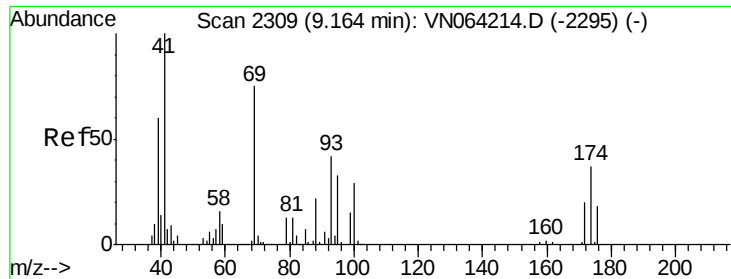


Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 39.00 (38.70 to 39.70): VNO





#49

1,4-Dioxane

Concen: 4.378 ug/l

RT: 9.24 min Scan# 2332

Delta R.T. 0.07 min

Lab File: VN064244.D

Acq: 22 Oct 2020 3:50

Instrument :

MSVOA_N

ClientSampleId :

PB132513ZHE#09

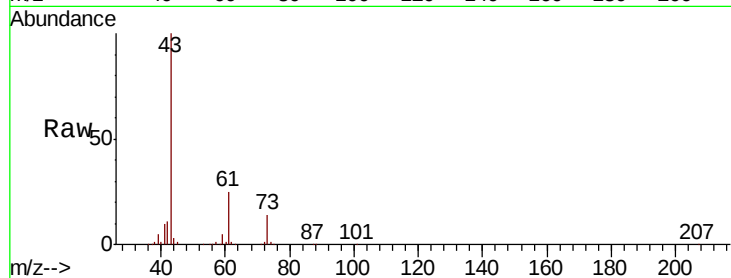
Tot Ion: 88 Resp: 207

Ion Ratio Lower Upper

88 100

43 677030.9 34.6 52.0#

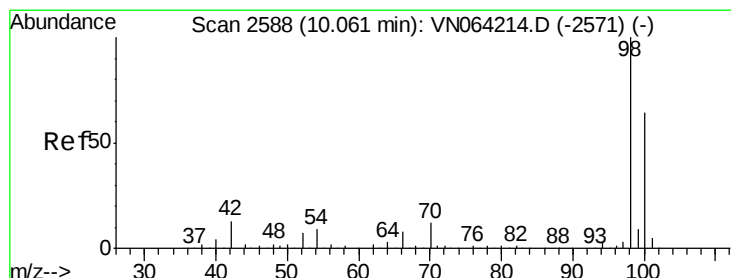
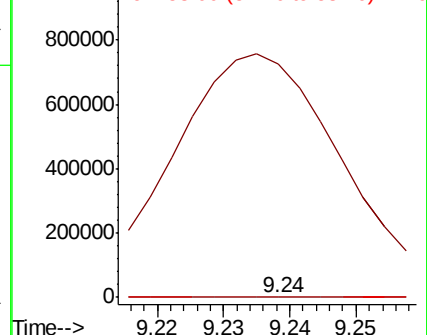
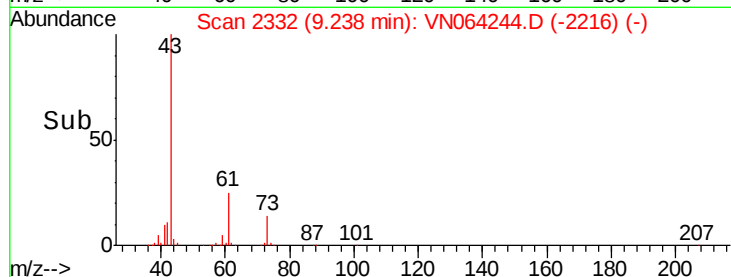
58 2366.2 59.0 88.6#



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: 52.773 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN064244.D

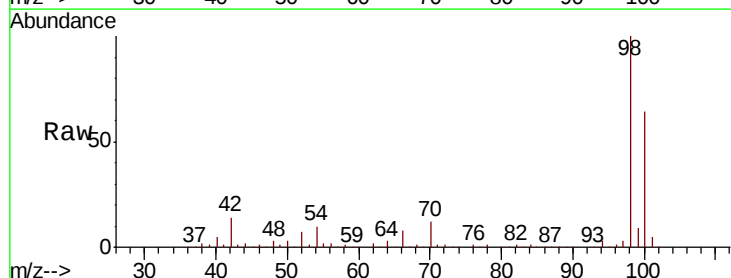
Acq: 22 Oct 2020 3:50

Tgt Ion: 98 Resp: 583697

Ion Ratio Lower Upper

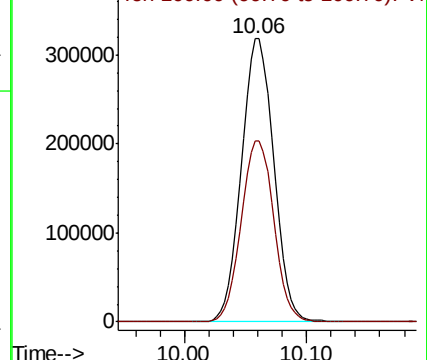
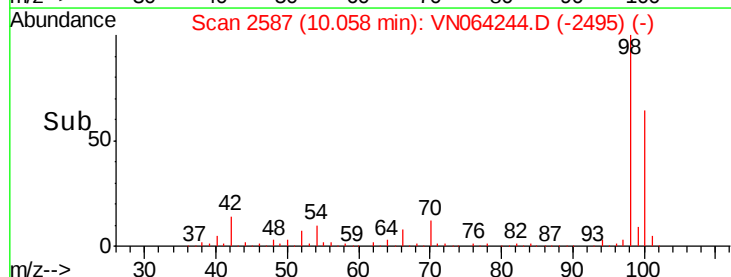
98 100

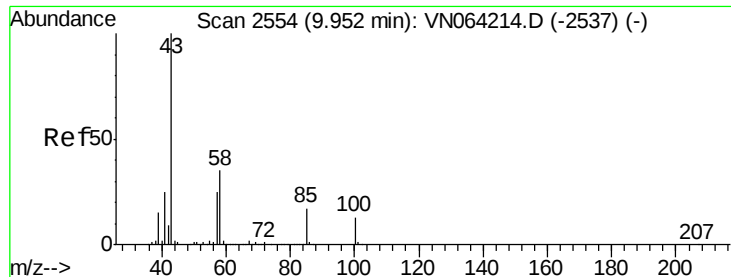
100 64.3 50.8 76.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

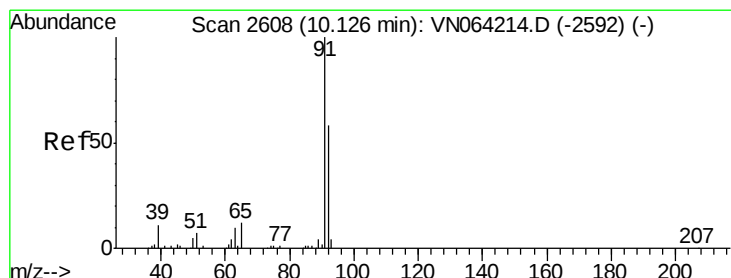
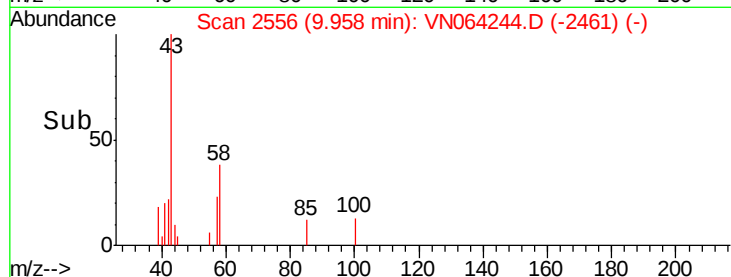
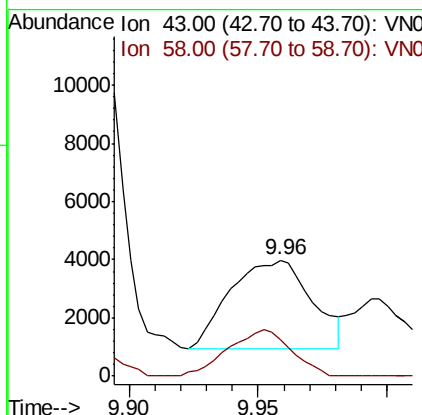
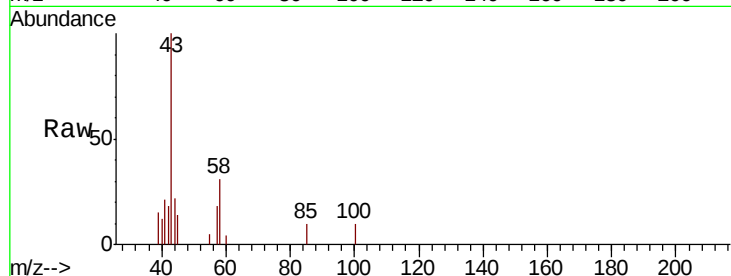




#51
4-Methyl-2-Pentanone
Concen: 1.610 ug/l
RT: 9.96 min Scan# 2556
Delta R.T. 0.01 min
Lab File: VN064244.D
Acq: 22 Oct 2020 3:50

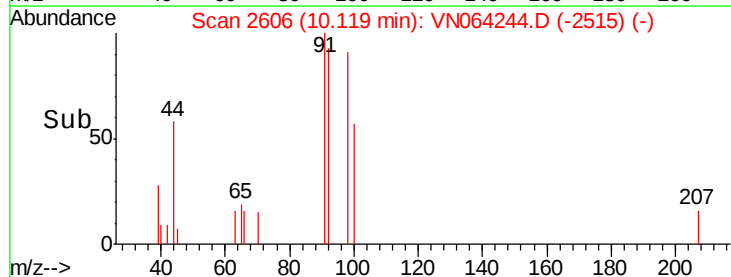
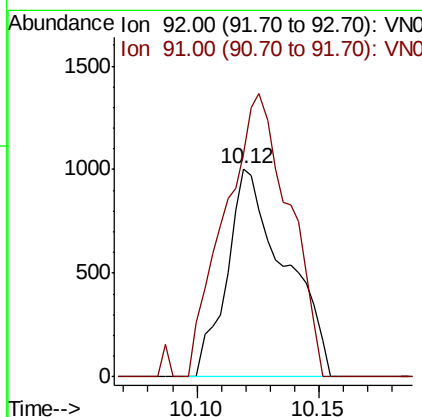
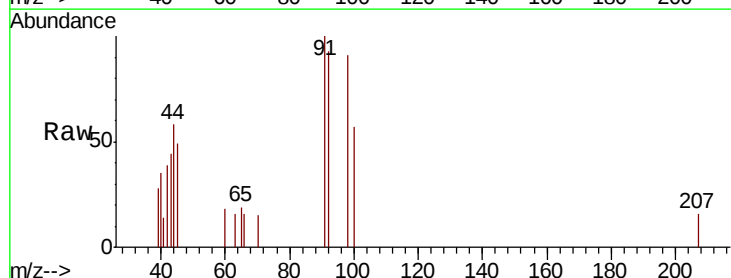
Instrument :
MSVOA_N
ClientSampleId :
PB132513ZHE#09

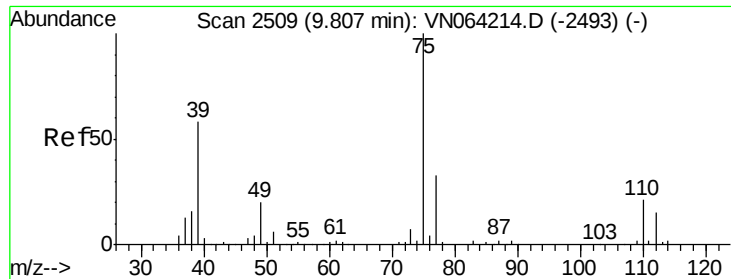
Tot Ion: 43 Resp: 6657
Ion Ratio Lower Upper
43 100
58 41.1 28.6 42.8



#52
Toluene
Concen: 0.206 ug/l
RT: 10.12 min Scan# 2606
Delta R.T. -0.01 min
Lab File: VN064244.D
Acq: 22 Oct 2020 3:50

Tgt Ion: 92 Resp: 1663
Ion Ratio Lower Upper
92 100
91 150.4 137.4 206.2





#54

cis-1,3-Dichloropropene

Concen: 6.089 ug/l

RT: 9.87 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN064244.D

Acq: 22 Oct 2020 3:50

Instrument :

MSVOA_N

ClientSampleId :

PB132513ZHE#09

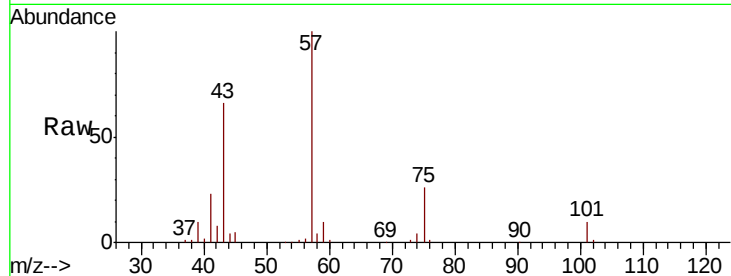
Tot Ion: 75 Resp: 35597

Ion Ratio Lower Upper

75 100

77 0.0 26.6 39.8#

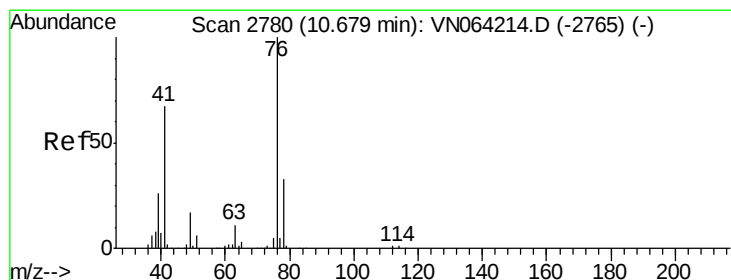
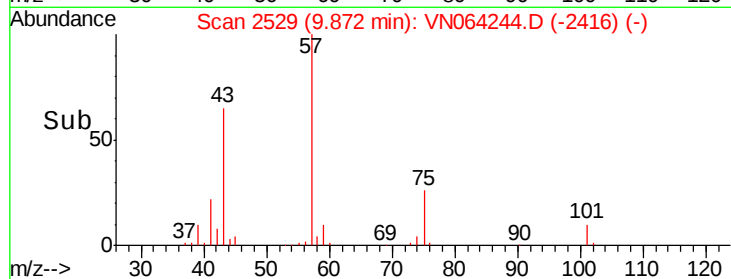
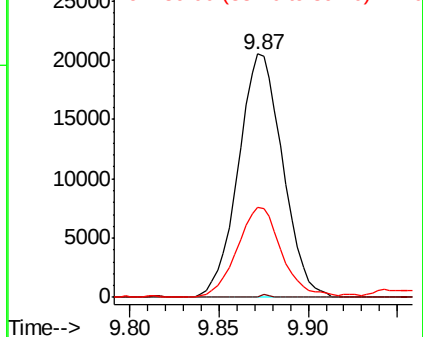
39 36.8 46.7 70.1#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.049 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN064244.D

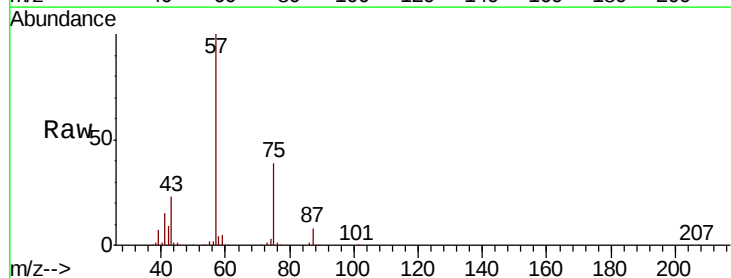
Acq: 22 Oct 2020 3:50

Tgt Ion: 76 Resp: 5559

Ion Ratio Lower Upper

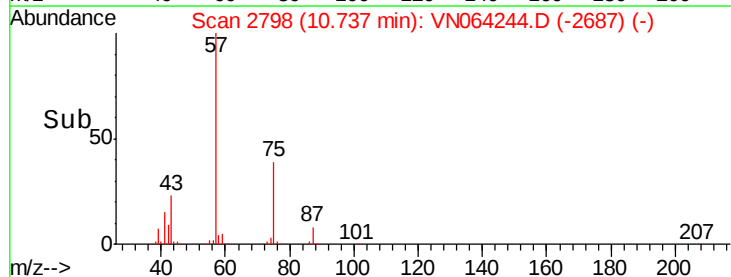
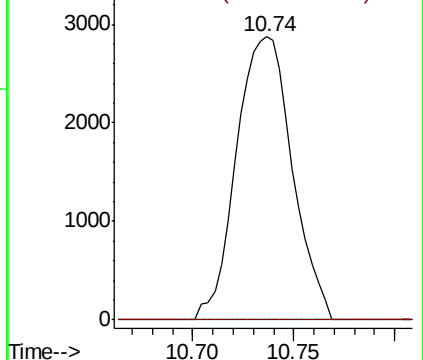
76 100

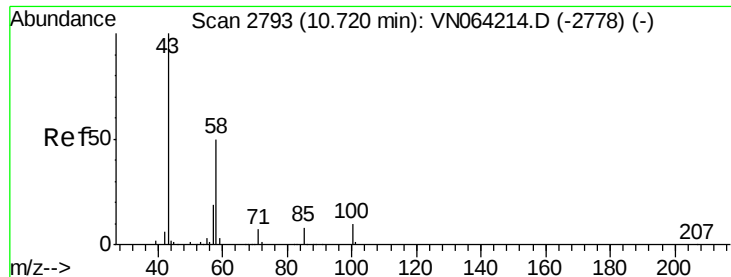
78 0.0 26.2 39.2#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0





#59

2-Hexanone

Concen: 31.734 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN064244.D

Acq: 22 Oct 2020 3:50

Instrument :

MSVOA_N

ClientSampleId :

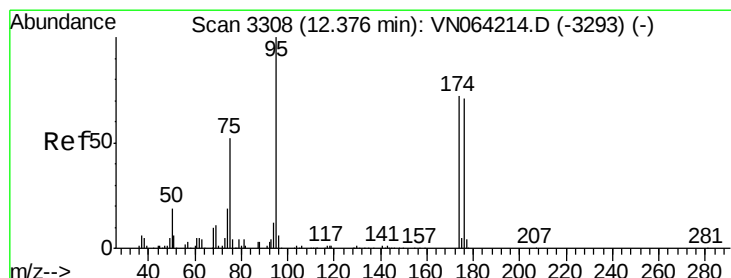
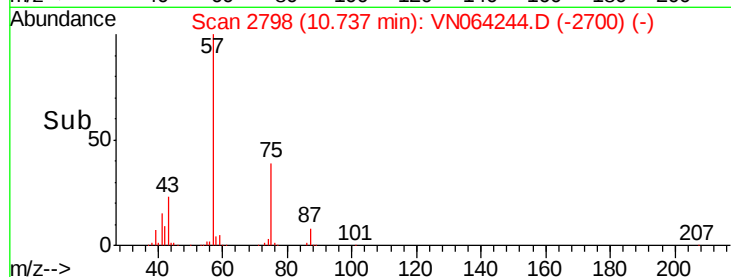
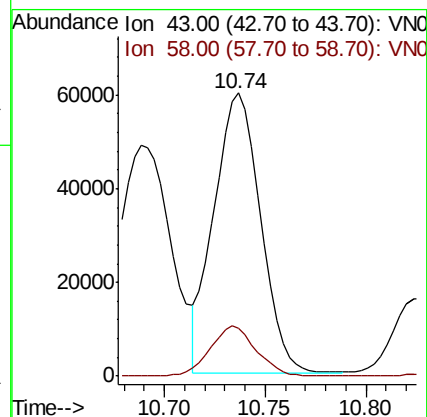
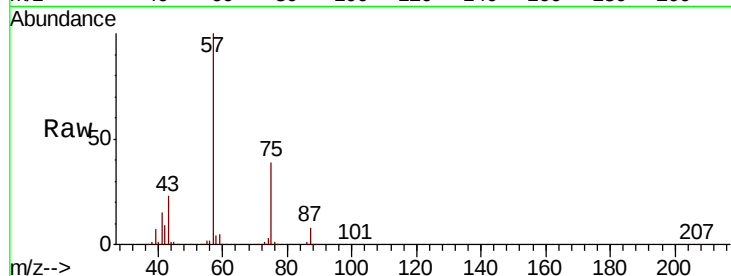
PB132513ZHE#09

Tot Ion: 43 Resp: 95824

Ion Ratio Lower Upper

43 100

58 17.7 24.8 74.3#



#62

4-Bromofluorobenzene

Concen: 58.445 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN064244.D

Acq: 22 Oct 2020 3:50

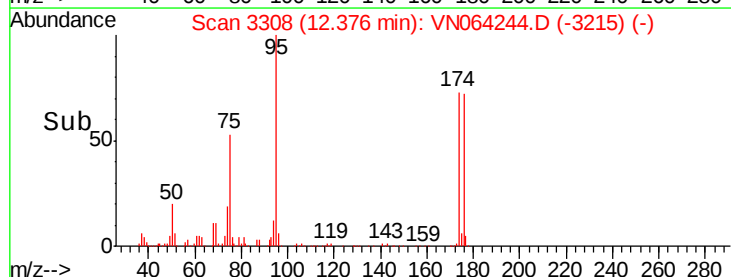
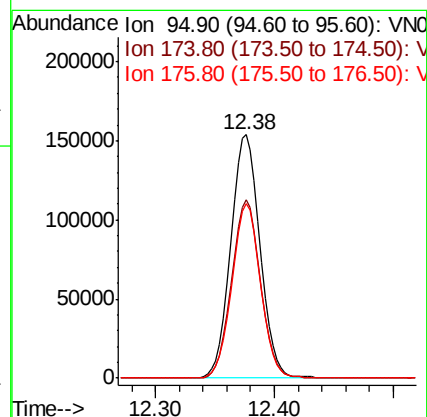
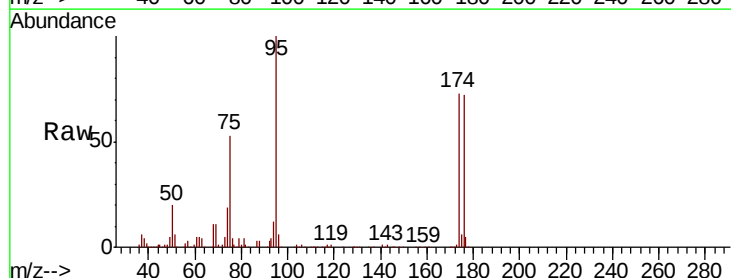
Tgt Ion: 95 Resp: 262057

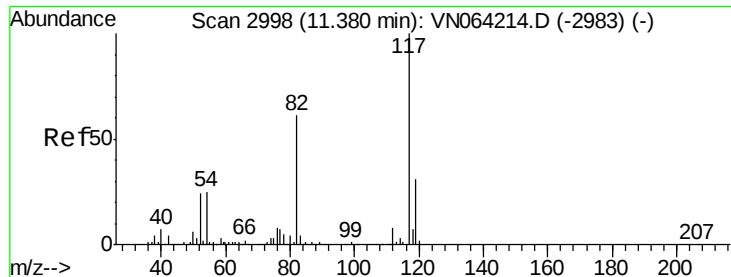
Ion Ratio Lower Upper

95 100

174 72.1 0.0 144.4

176 70.1 0.0 139.2

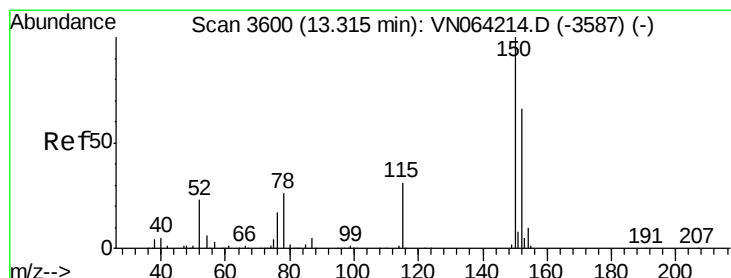
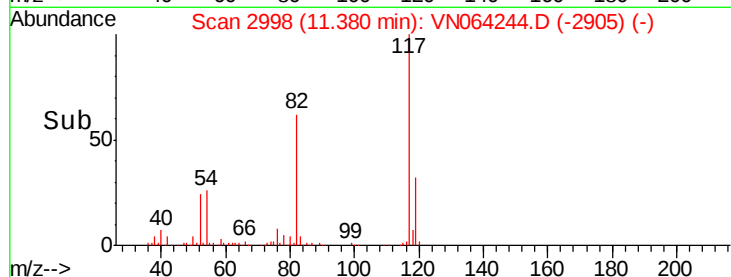
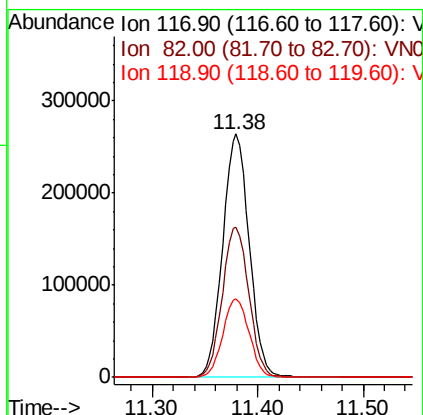
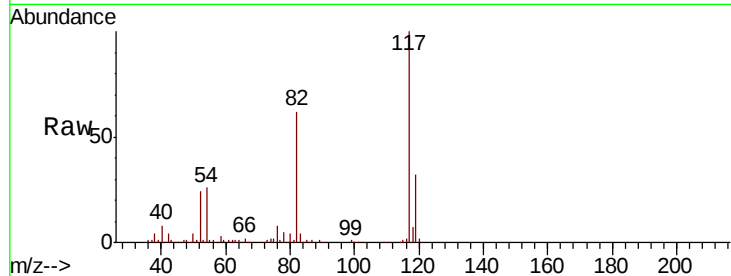




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064244.D
Acq: 22 Oct 2020 3:50

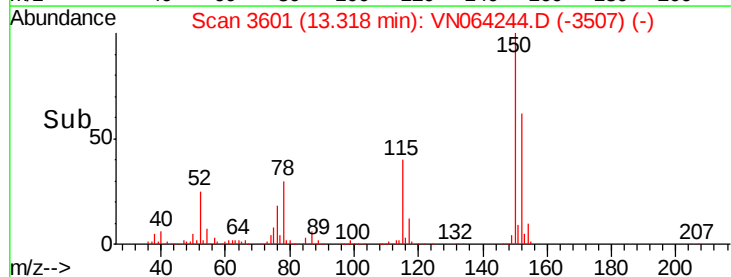
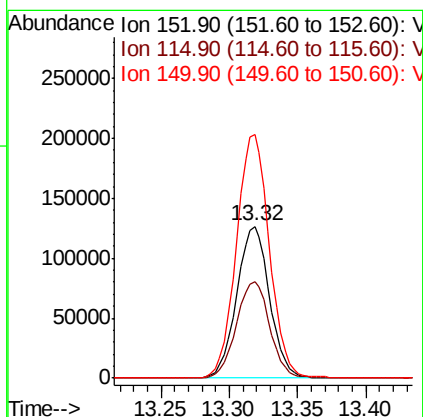
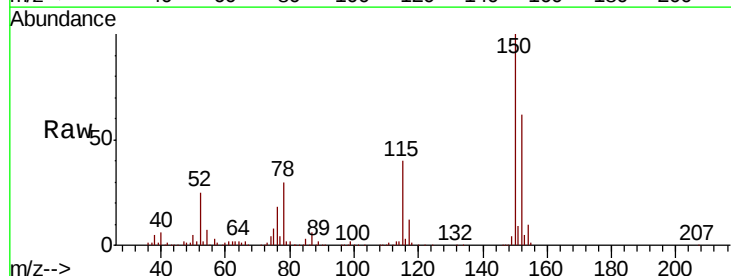
Instrument :
MSVOA_N
ClientSampleId :
PB132513ZHE#09

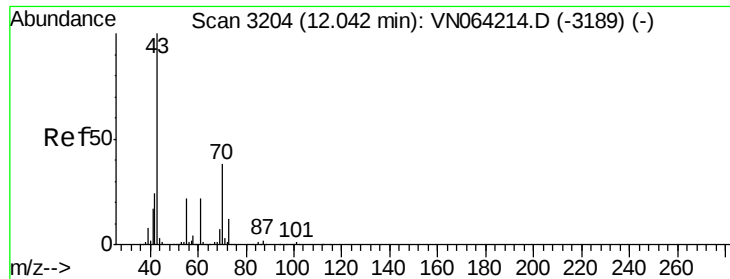
Tot Ion:117 Resp: 459722
Ion Ratio Lower Upper
117 100
82 61.8 48.8 73.2
119 32.5 24.7 37.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. 0.00 min
Lab File: VN064244.D
Acq: 22 Oct 2020 3:50

Tgt Ion:152 Resp: 210763
Ion Ratio Lower Upper
152 100
115 64.8 32.0 96.2
150 161.7 0.0 356.6





#74

N-amvl acetate

Concen: 0.730 ug/l

RT: 12.01 min Scan# 3193

Delta R.T. -0.04 min

Lab File: VN064244.D

Acq: 22 Oct 2020 3:50

Instrument :

MSVOA_N

ClientSampleId :

PB132513ZHE#09

Tot Ion: 43 Resp: 5069

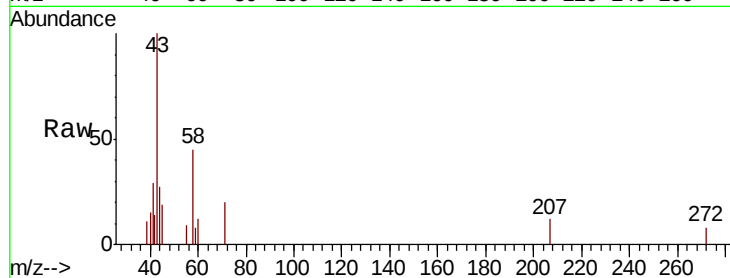
Ion Ratio Lower Upper

43 100

70 0.0 30.2 45.4#

55 2.5 18.0 27.0#

61 0.0 17.4 26.2#

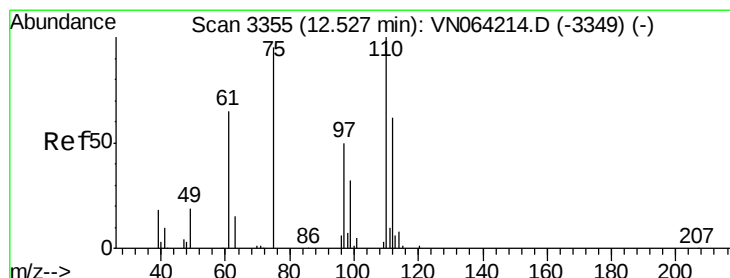
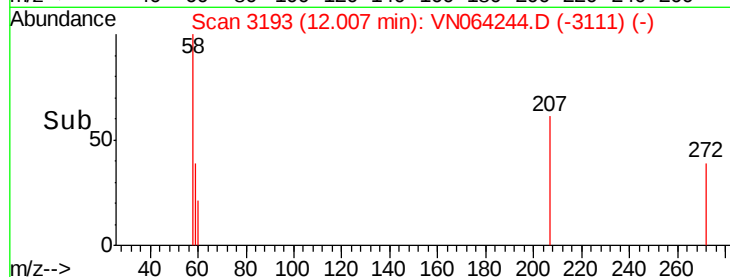
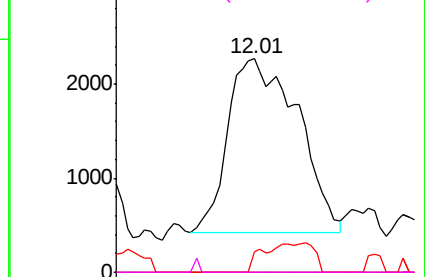


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 30.833 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN064244.D

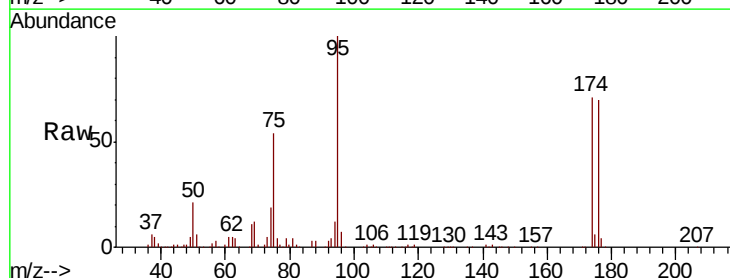
Acq: 22 Oct 2020 3:50

Tgt Ion: 75 Resp: 136999

Ion Ratio Lower Upper

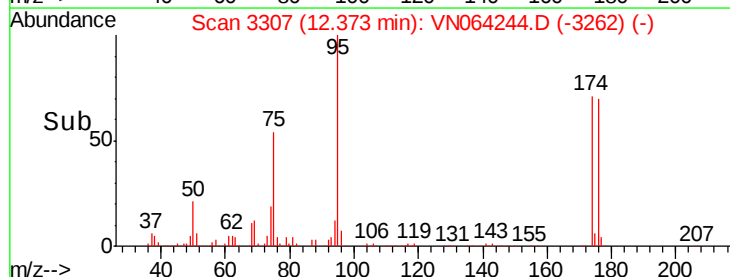
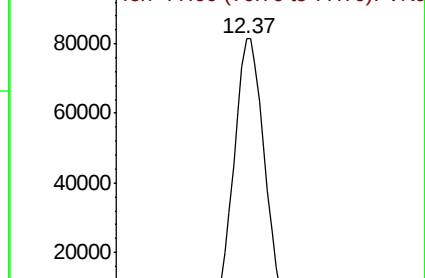
75 100

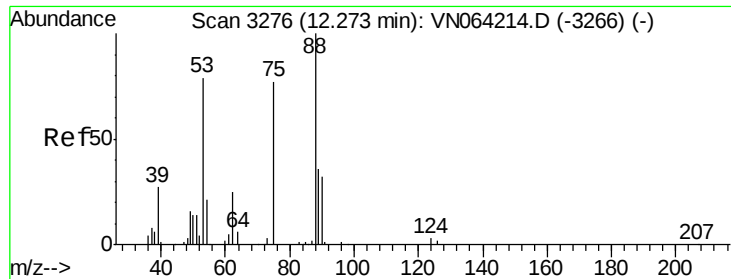
77 0.9 0.0 0.0#



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: 77.845 ug/l
 RT: 12.37 min Scan# 3307
 Delta R.T. 0.10 min
 Lab File: VN064244.D
 Acq: 22 Oct 2020 3:50

Instrument :
 MSVOA_N
 ClientSampleId :
 PB132513ZHE#09

Tot Ion: 75 Resp: 136999
 Ion Ratio Lower Upper
 75 100
 53 0.0 81.0 121.4#
 89 0.0 38.7 58.1#

