

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102120\
 Data File : VN064234.D
 Acq On : 21 Oct 2020 20:18
 Operator : JC/MD
 Sample : PB132513ZHE#05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB132513ZHE#05

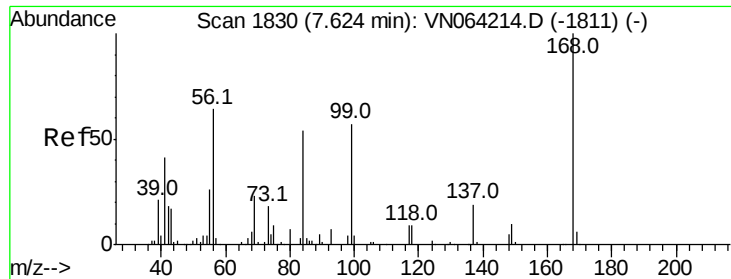
Quant Time: Oct 22 01:51:09 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N102120W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 21 12:48:40 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.62	168	254455	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	443417	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	453490	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	205168	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	194284	51.41	ug/l	0.00
Spiked Amount			Recovery	=	102.82%	
35) Dibromofluoromethane	7.55	113	145697	49.42	ug/l	0.00
Spiked Amount			Recovery	=	98.84%	
50) Toluene-d8	10.06	98	563507	52.69	ug/l	0.00
Spiked Amount			Recovery	=	105.38%	
62) 4-Bromofluorobenzene	12.38	95	248051	57.22	ug/l	0.00
Spiked Amount			Recovery	=	114.44%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	310	0.613	ug/l #	70
16) Acetone	3.78	43	11643	10.768	ug/l	99
18) Methyl Acetate	4.28	43	1810	0.657	ug/l #	90
20) Methylene Chloride	4.51	84	8309	2.882	ug/l #	82
25) 2-Butanone	6.79	43	3345	1.947	ug/l	97
29) Tetrahydrofuran	7.17	42	657	0.639	ug/l #	54
31) Cyclohexane	7.62	56	6823	1.523	ug/l #	27
36) 1,1-Dichloropropene	7.63	75	21886	4.951	ug/l #	53
37) Ethyl Acetate	6.79	43	3345	0.833	ug/l #	71
38) Carbon Tetrachloride	7.62	117	26956	5.359	ug/l #	16
43) Isopropyl Acetate	8.13	43	97638	13.053	ug/l #	87
45) 1,2-Dichloropropane	9.23	63	1531	0.470	ug/l #	45
48) Methyl methacrylate	9.15	41	5471	1.400	ug/l #	17
49) 1,4-Dioxane	9.17	88	105	2.297	ug/l #	20
51) 4-Methyl-2-Pentanone	9.95	43	6496	1.625	ug/l	96
54) cis-1,3-Dichloropropene	9.87	75	37559	6.645	ug/l #	58
56) Ethyl methacrylate	10.51	69	1283	0.281	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	6705	1.309	ug/l #	42
59) 2-Hexanone	10.74	43	96530	33.063	ug/l #	52
74) N-amyl acetate	12.01	43	3364	0.498	ug/l #	48
76) 1,2,3-Trichloropropane	12.38	75	135193	31.257	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	135193	78.914	ug/l #	9

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.00 min

Lab File: VN064234.D

Acq: 21 Oct 2020 20:18

Instrument :

MSVOA_N

ClientSampleId :

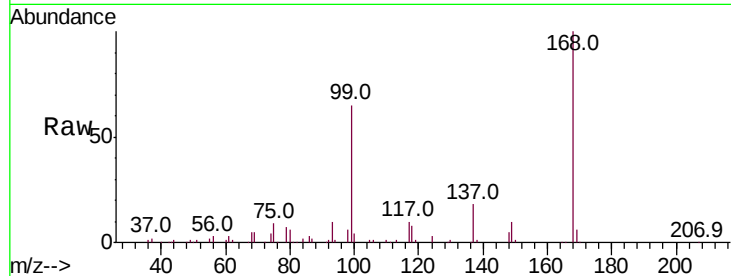
PB132513ZHE#05

Tot Ion:168 Resp: 254455

Ion Ratio Lower Upper

168 100

99 64.6 54.0 81.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.62

120000

100000

80000

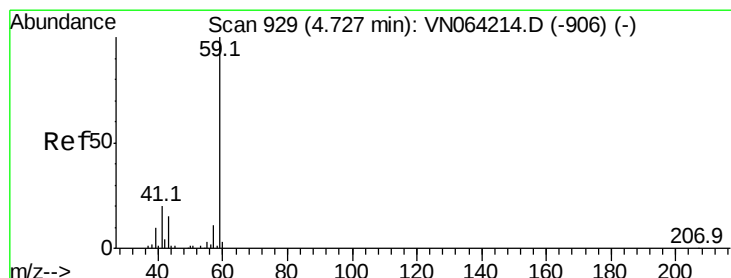
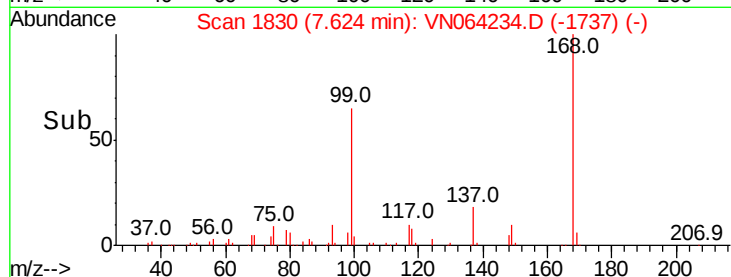
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.613 ug/l

RT: 4.73 min Scan# 929

Delta R.T. 0.00 min

Lab File: VN064234.D

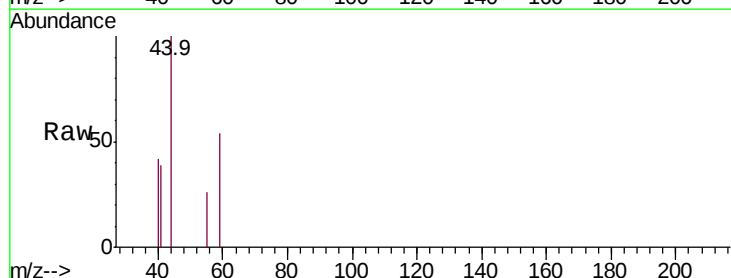
Acq: 21 Oct 2020 20:18

Tgt Ion: 59 Resp: 310

Ion Ratio Lower Upper

59 100

57 0.0 9.2 13.8#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.73

400

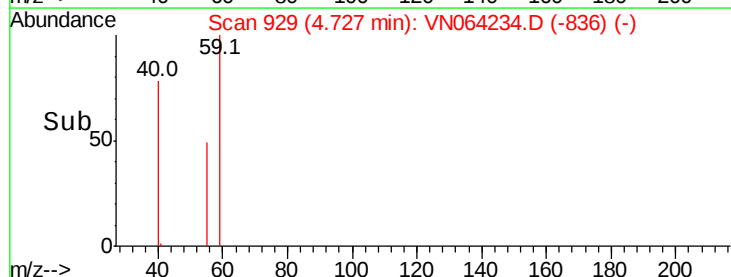
300

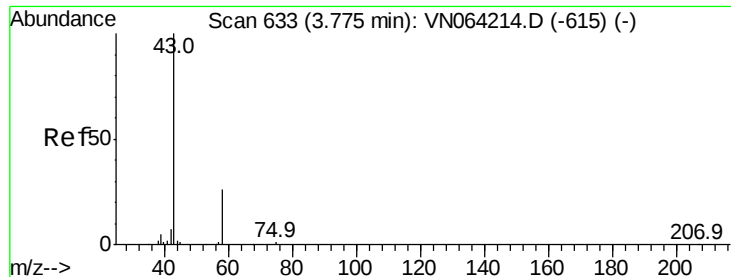
200

100

0

Time-->





#16

Acetone

Concen: 10.768 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN064234.D

Acq: 21 Oct 2020 20:18

Instrument :

MSVOA_N

ClientSampleId :

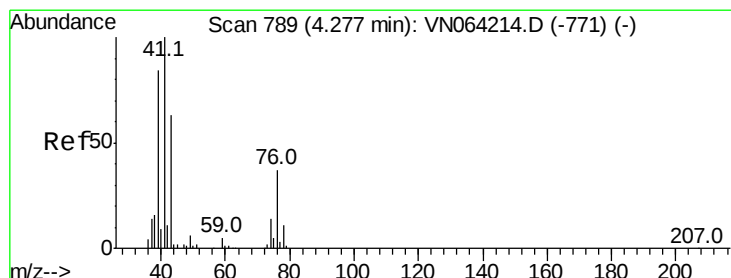
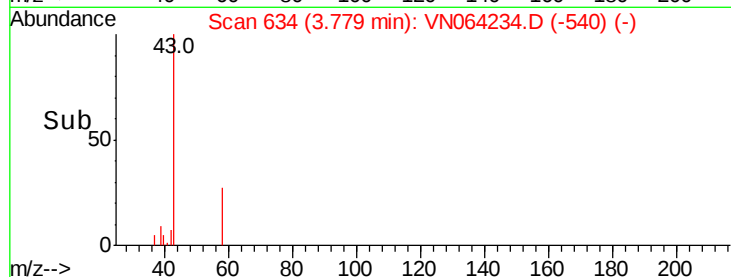
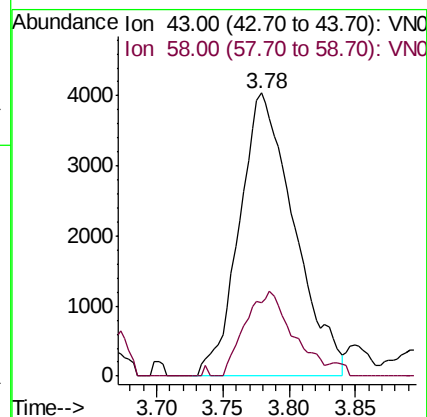
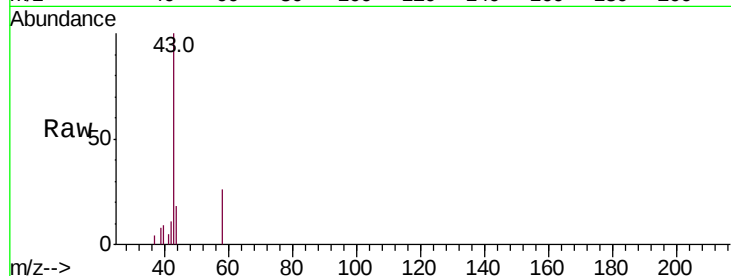
PB132513ZHE#05

Tot Ion: 43 Resp: 11643

Ion Ratio Lower Upper

43 100

58 25.8 21.0 31.4



#18

Methyl Acetate

Concen: 0.657 ug/l

RT: 4.28 min Scan# 789

Delta R.T. 0.00 min

Lab File: VN064234.D

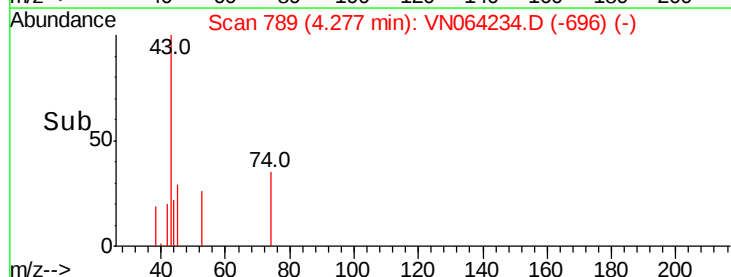
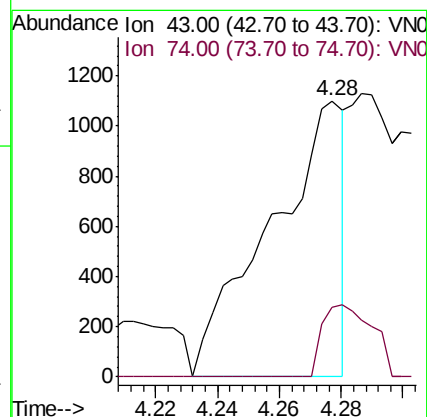
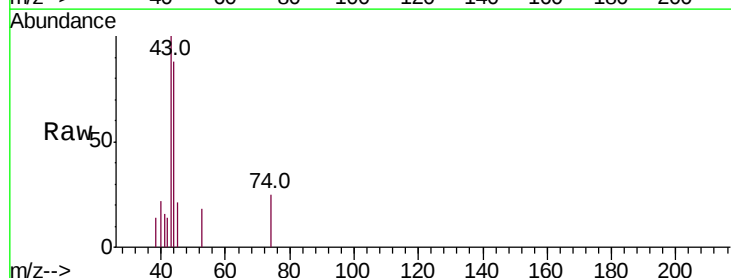
Acq: 21 Oct 2020 20:18

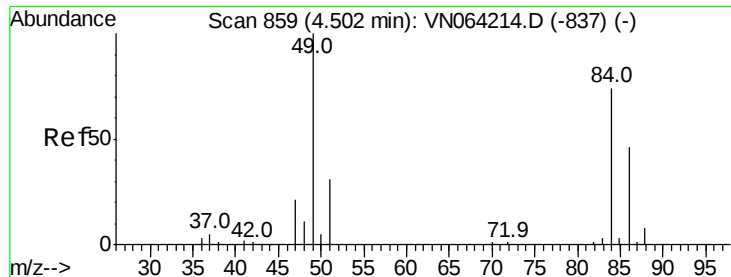
Tgt Ion: 43 Resp: 1810

Ion Ratio Lower Upper

43 100

74 17.5 17.9 26.9#

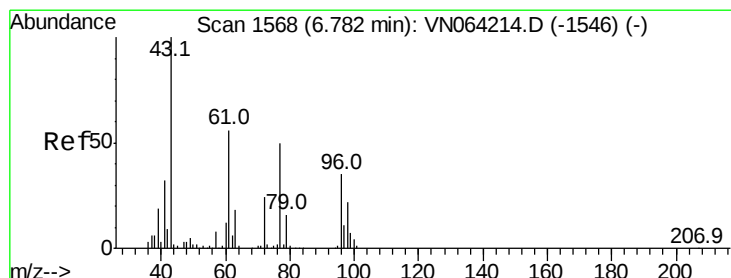
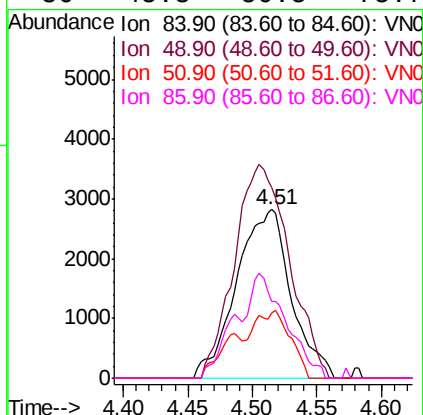
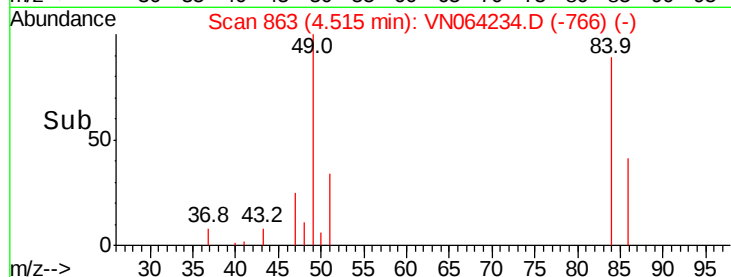
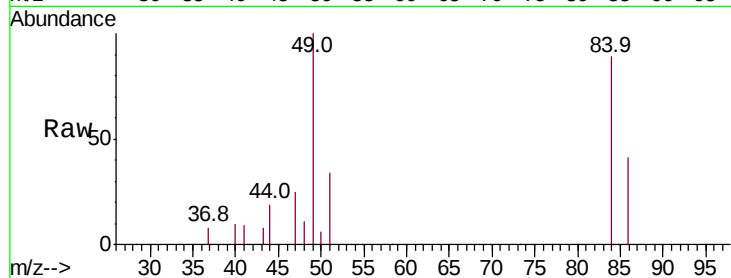




#20
Methvlene Chloride
Concen: 2.882 ug/l
RT: 4.51 min Scan# 863
Delta R.T. 0.01 min
Lab File: VN064234.D
Acq: 21 Oct 2020 20:18

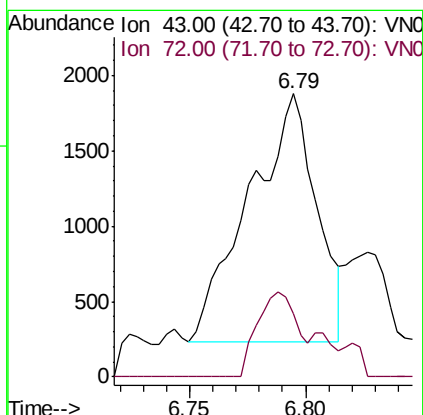
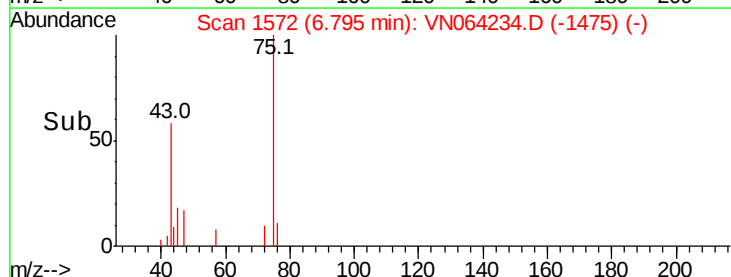
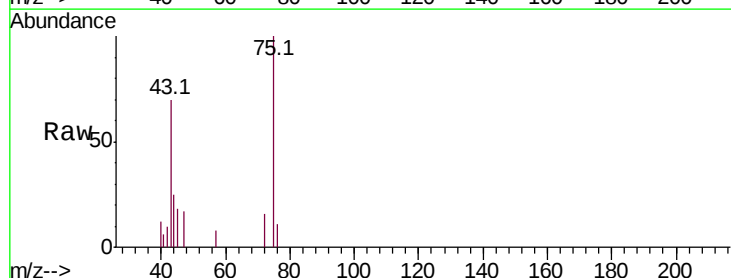
Instrument :
MSVOA_N
ClientSampleId :
PB132513ZHE#05

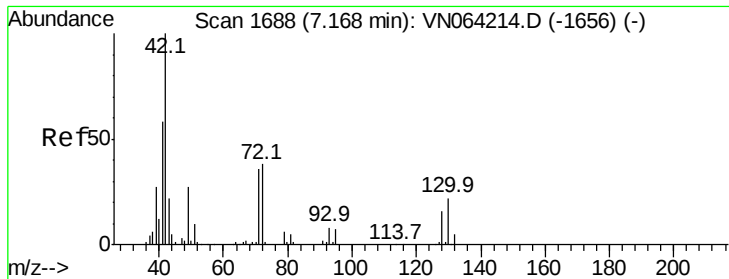
Tot Ion: 84 Resp: 8309
Ion Ratio Lower Upper
84 100
49 112.9 108.5 162.7
51 38.6 33.8 50.8
86 45.8 50.5 75.7#



#25
2-Butanone
Concen: 1.947 ug/l
RT: 6.79 min Scan# 1572
Delta R.T. 0.01 min
Lab File: VN064234.D
Acq: 21 Oct 2020 20:18

Tgt Ion: 43 Resp: 3345
Ion Ratio Lower Upper
43 100
72 25.5 19.4 29.0





#29

Tetrahydrofuran

Concen: 0.639 ug/l

RT: 7.17 min Scan# 1688

Delta R.T. 0.00 min

Lab File: VN064234.D

Acq: 21 Oct 2020 20:18

Instrument :

MSVOA_N

ClientSampleId :

PB132513ZHE#05

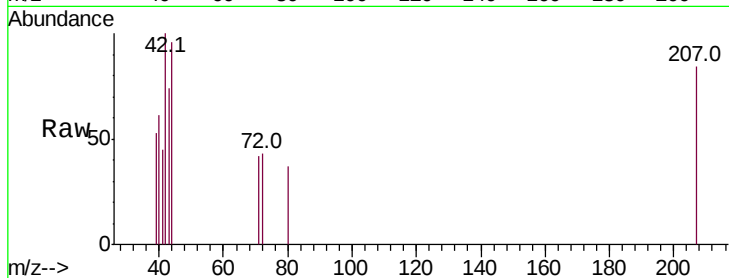
Tot Ion: 42 Resp: 657

Ion Ratio Lower Upper

42 100

72 9.9 30.8 46.2#

71 9.9 29.0 43.6#

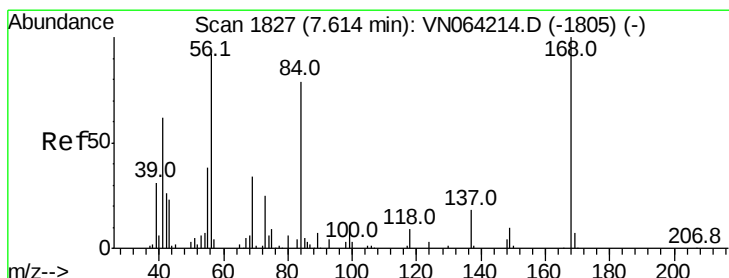
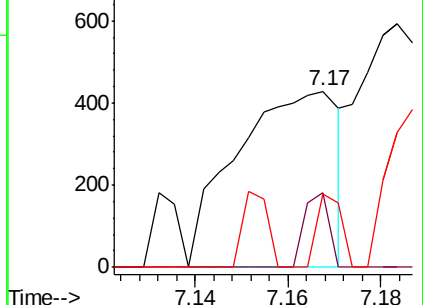
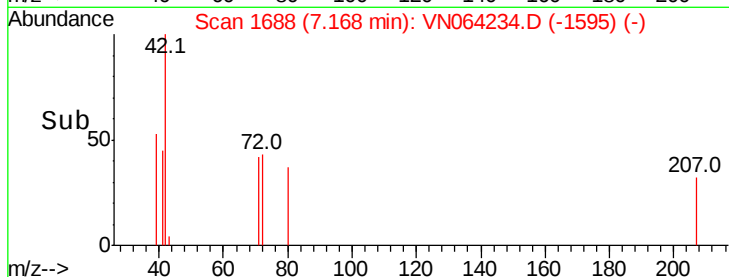


Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

Time-->



#31

Cyclohexane

Concen: 1.523 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN064234.D

Acq: 21 Oct 2020 20:18

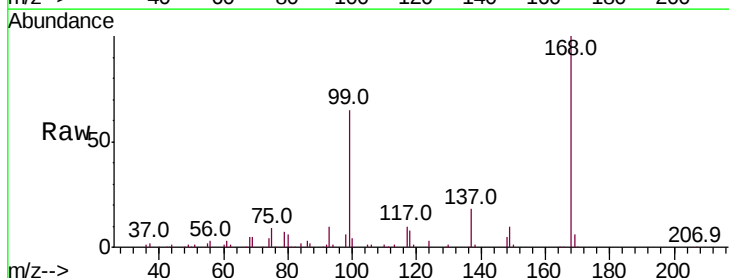
Tgt Ion: 56 Resp: 6823

Ion Ratio Lower Upper

56 100

69 163.0 29.8 44.6#

84 72.9 68.1 102.1

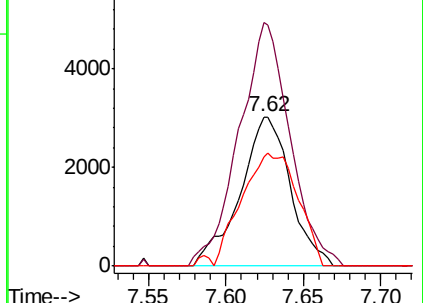
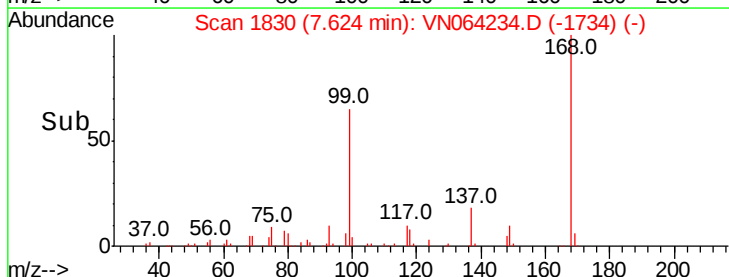


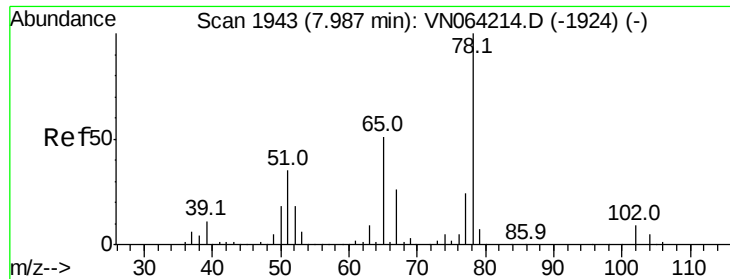
Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

Time-->





#33

1,2-Dichloroethane-d4

Concen: 51.414 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN064234.D

Acq: 21 Oct 2020 20:18

Instrument :

MSVOA_N

ClientSampleId :

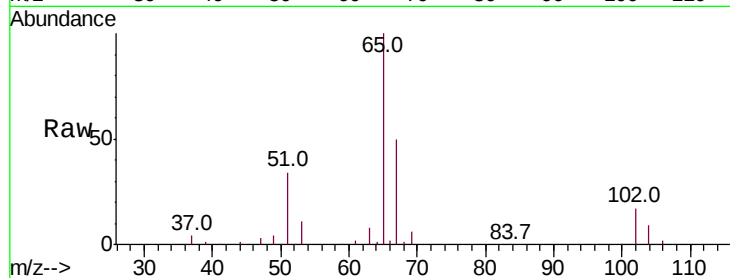
PB132513ZHE#05

Tot Ion: 65 Resp: 194284

Ion Ratio Lower Upper

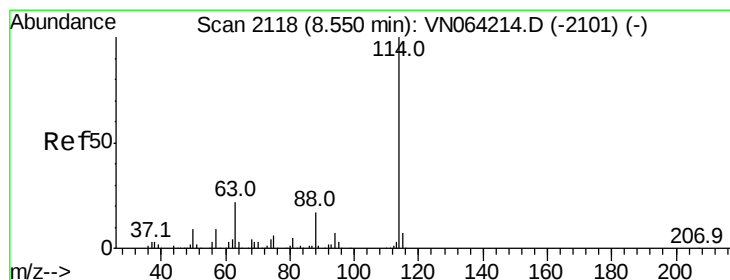
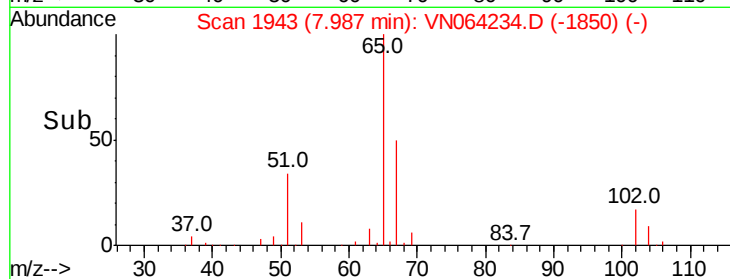
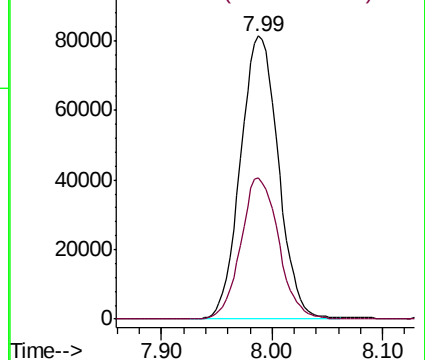
65 100

67 49.8 0.0 100.2



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: VN064234.D

Acq: 21 Oct 2020 20:18

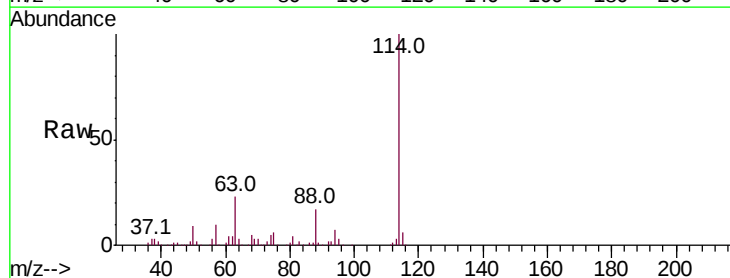
Tgt Ion: 114 Resp: 443417

Ion Ratio Lower Upper

114 100

63 22.7 0.0 44.0

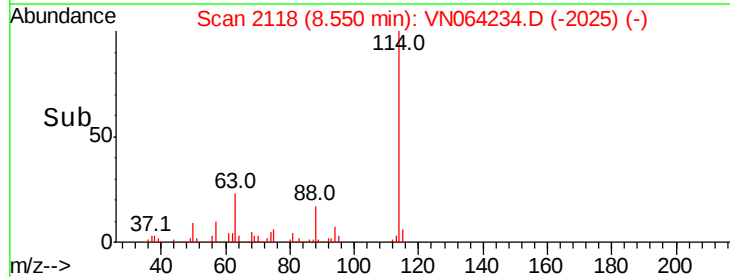
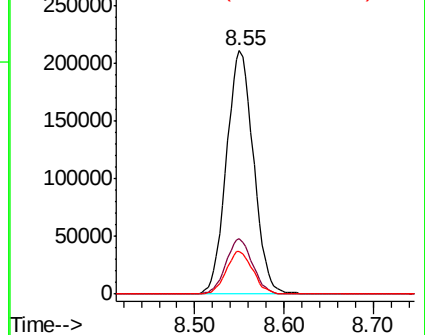
88 17.4 0.0 34.2

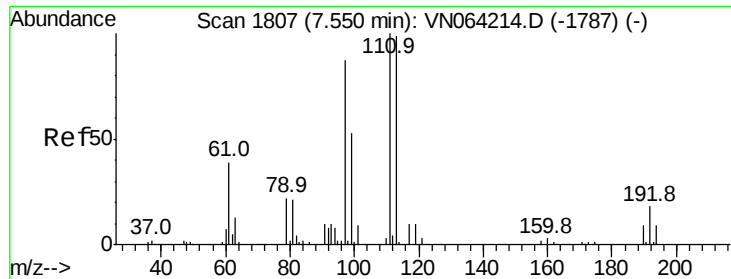


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0

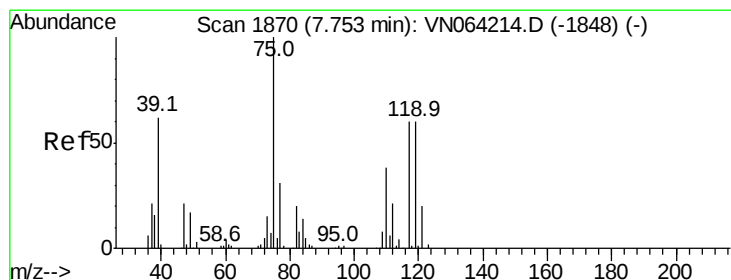
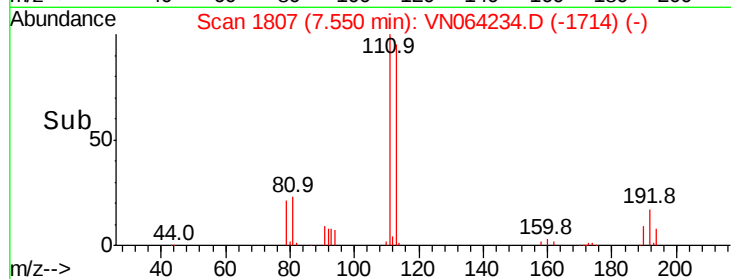
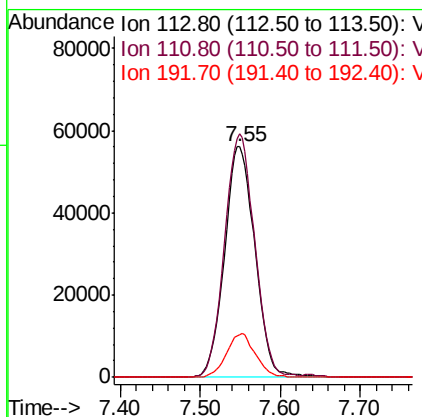
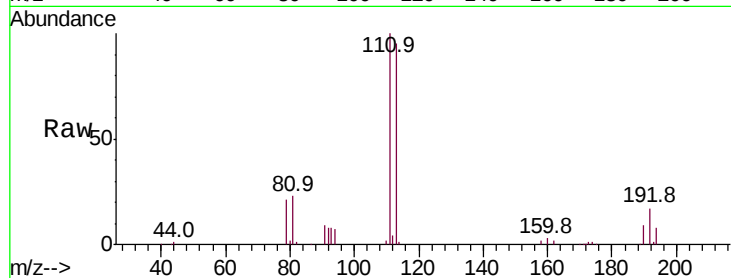




#35
 Dibromofluoromethane
 Concen: 49.421 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN064234.D
 Acq: 21 Oct 2020 20:18

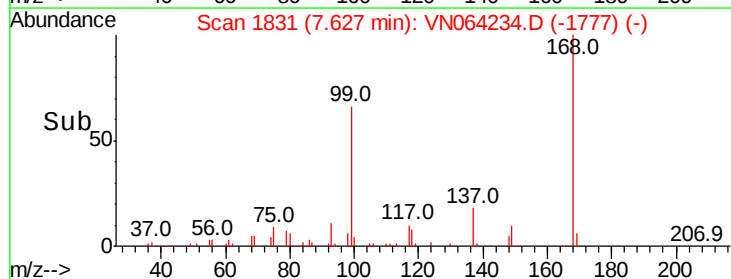
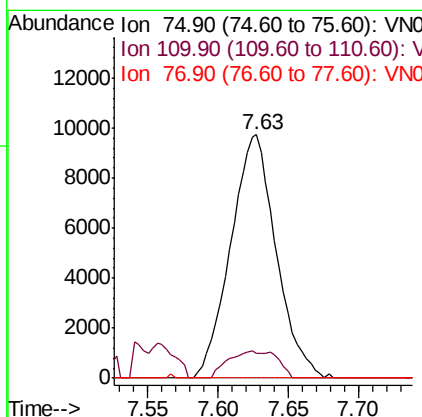
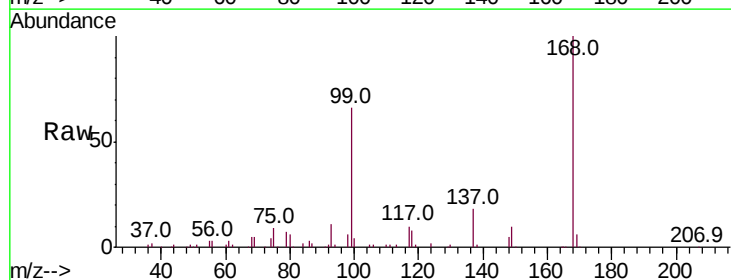
Instrument :
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 PB132513ZHE#05

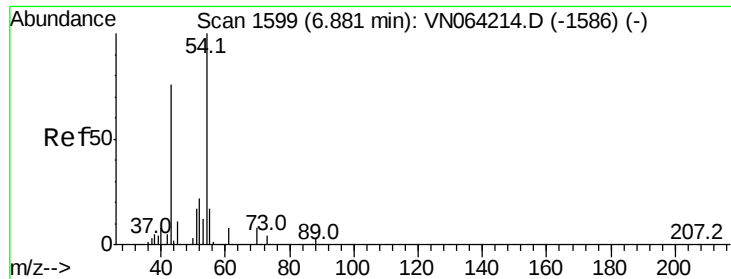
Tot Ion	Ratio	Lower	Upper
113	100		
111	104.2	84.2	126.2
192	18.0	15.2	22.8



#36
 1,1-Dichloropropene
 Concen: 4.951 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN064234.D
 Acq: 21 Oct 2020 20:18

Tgt Ion	Ratio	Lower	Upper
75	100		
110	11.9	17.2	51.6#
77	0.0	24.9	37.3#





#37

Ethyl Acetate

Concen: 0.833 ug/l

RT: 6.79 min Scan# 1572

Delta R.T. -0.09 min

Lab File: VN064234.D

Acq: 21 Oct 2020 20:18

Instrument :

MSVOA_N

ClientSampleId :

PB132513ZHE#05

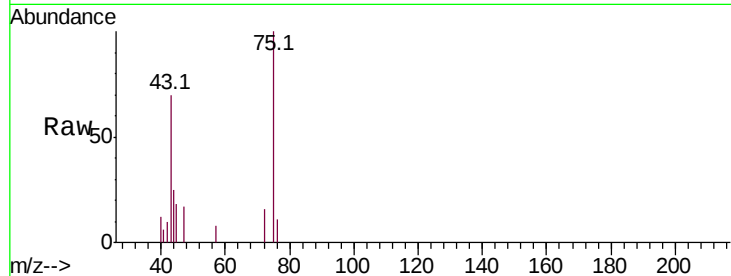
Tot Ion: 43 Resp: 3345

Ion Ratio Lower Upper

43 100

61 0.0 10.0 15.0#

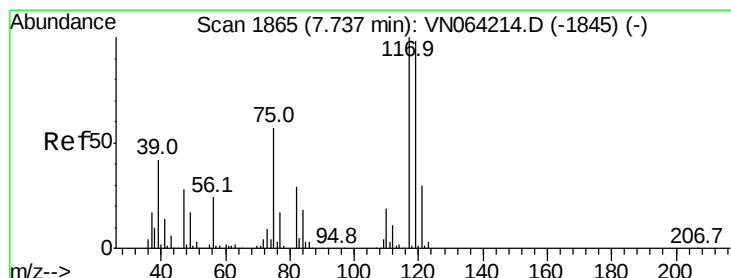
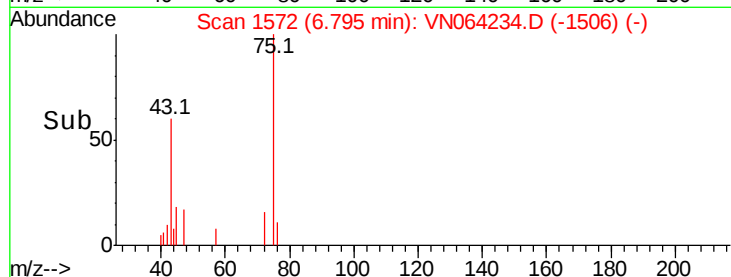
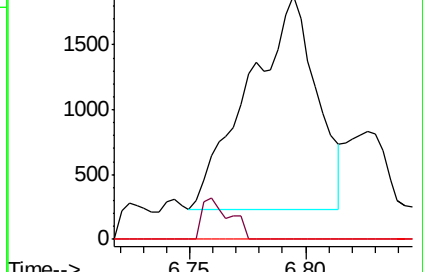
70 0.0 7.5 11.3#



Abundance Ion 43.00 (42.70 to 43.70): VN064234.D (-1586) (-)

Ion 60.90 (60.60 to 61.60): VN064234.D (-1586) (-)

Ion 70.00 (69.70 to 70.70): VN064234.D (-1586) (-)



#38

Carbon Tetrachloride

Concen: 5.359 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN064234.D

Acq: 21 Oct 2020 20:18

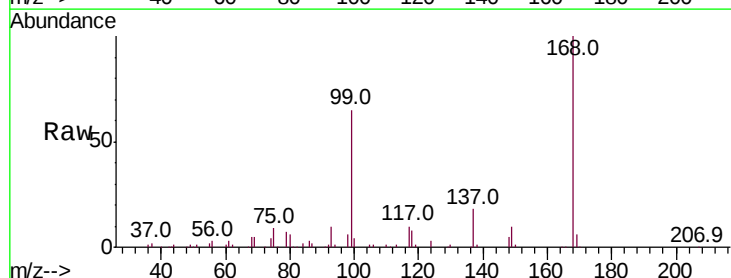
Tgt Ion: 117 Resp: 26956

Ion Ratio Lower Upper

117 100

119 6.7 78.5 117.7#

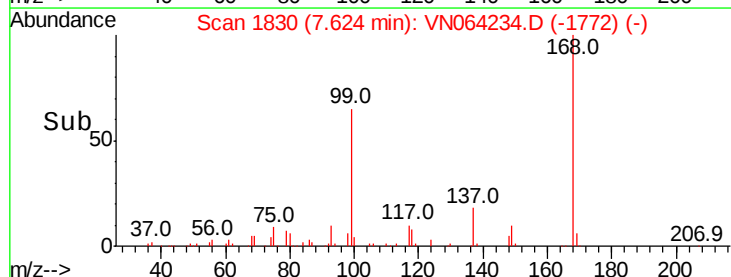
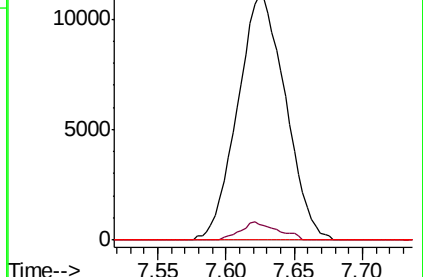
121 0.0 24.3 36.5#

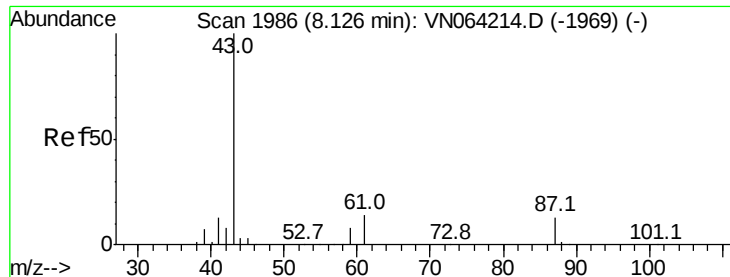


Abundance Ion 116.80 (116.50 to 117.50): VN064234.D (-1772) (-)

Ion 118.80 (118.50 to 119.50): VN064234.D (-1772) (-)

Ion 120.80 (120.50 to 121.50): VN064234.D (-1772) (-)





#43

Isopropyl Acetate

Concen: 13.053 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. 0.00 min

Lab File: VN064234.D

Acq: 21 Oct 2020 20:18

Instrument :

MSVOA_N

ClientSampleId :

PB132513ZHE#05

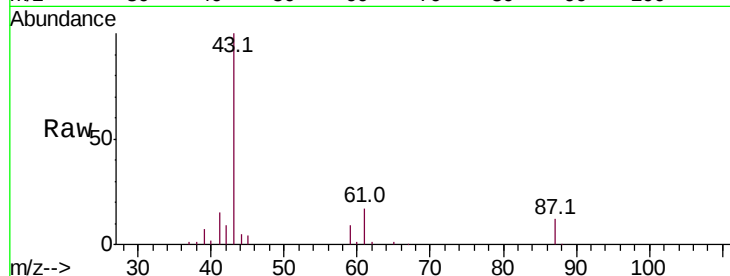
Tot Ion: 43 Resp: 97638

Ion Ratio Lower Upper

43 100

61 15.5 19.6 29.4#

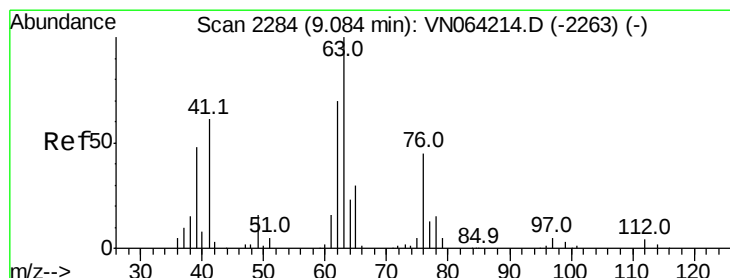
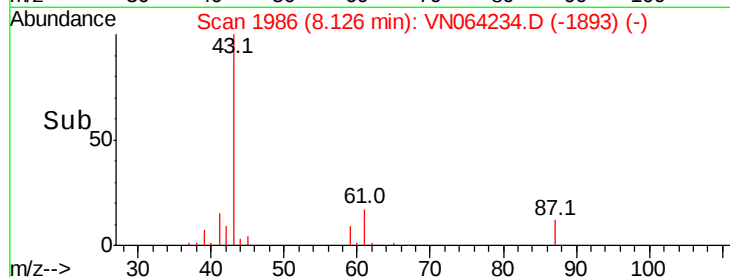
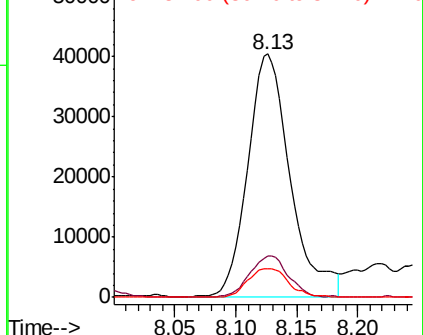
87 11.4 9.8 14.6



Abundance Ion 43.00 (42.70 to 43.70): VN064234.D (-1969) (-)

Ion 61.00 (60.70 to 61.70): VN064234.D (-1969) (-)

Ion 87.00 (86.70 to 87.70): VN064234.D (-1969) (-)



#45

1,2-Dichloropropane

Concen: 0.470 ug/l

RT: 9.23 min Scan# 2329

Delta R.T. 0.14 min

Lab File: VN064234.D

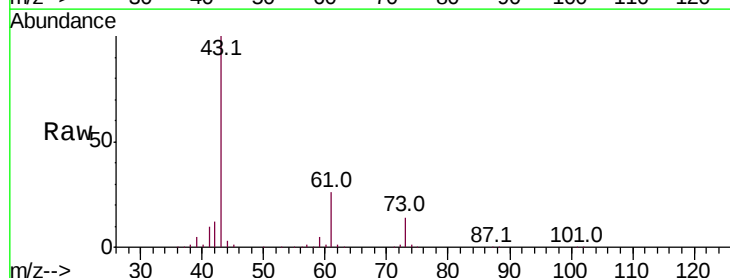
Acq: 21 Oct 2020 20:18

Tgt Ion: 63 Resp: 1531

Ion Ratio Lower Upper

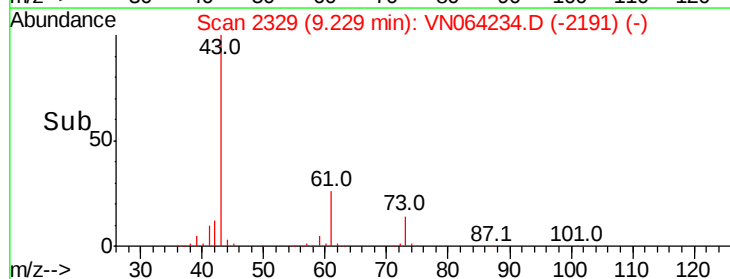
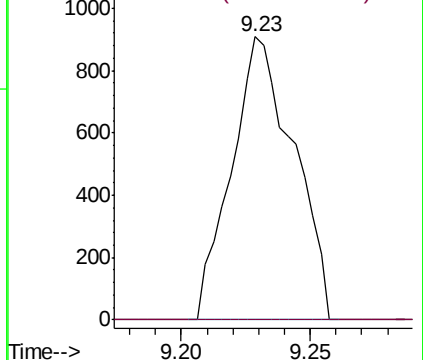
63 100

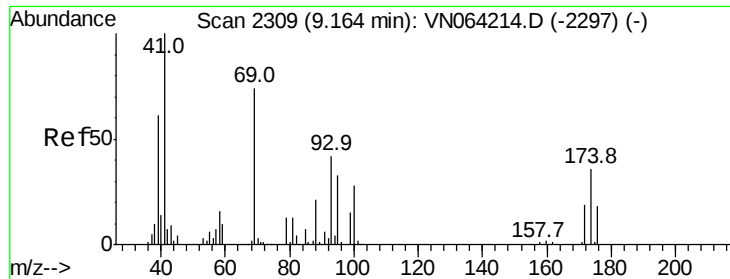
65 0.0 24.0 36.0#



Abundance Ion 62.90 (62.60 to 63.60): VN064234.D (-2191) (-)

Ion 64.90 (64.60 to 65.60): VN064234.D (-2191) (-)

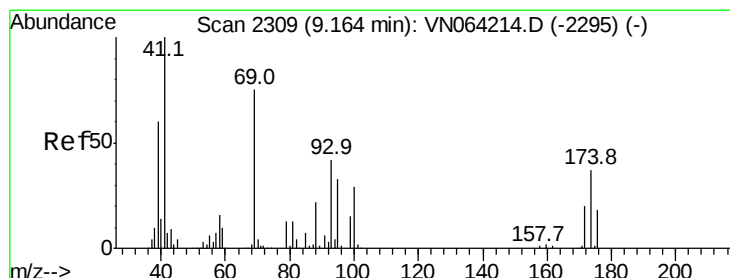
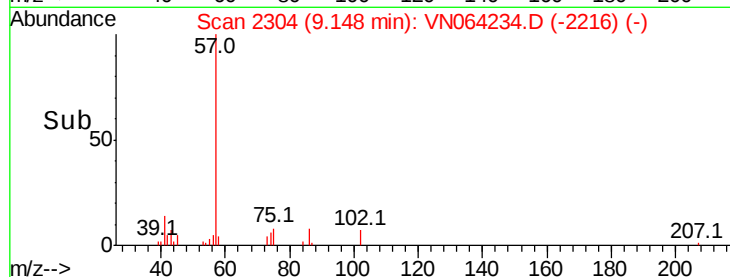
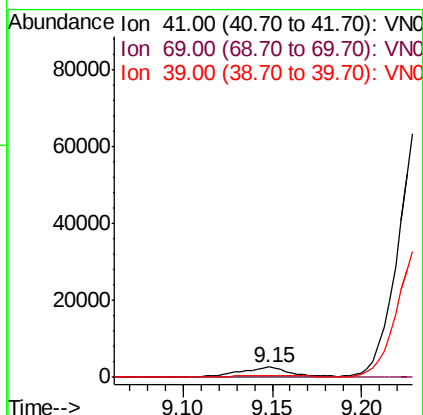
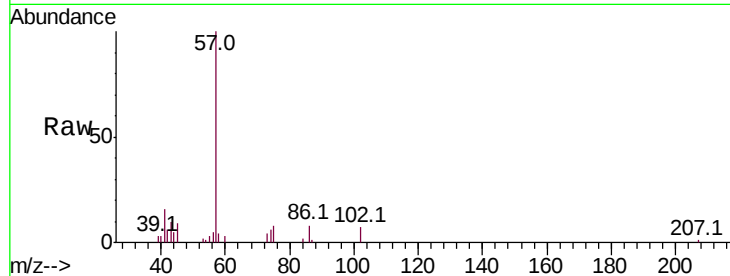




#48
Methvl methacrylate
Concen: 1.400 ug/l
RT: 9.15 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN064234.D
Acq: 21 Oct 2020 20:18

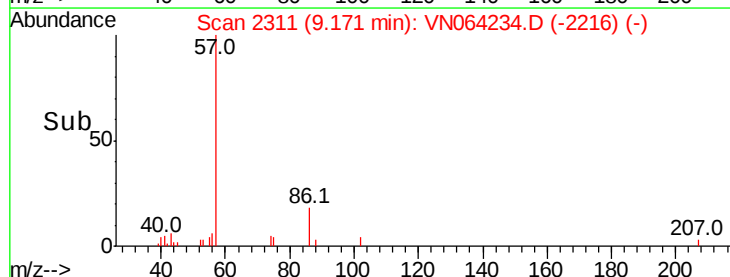
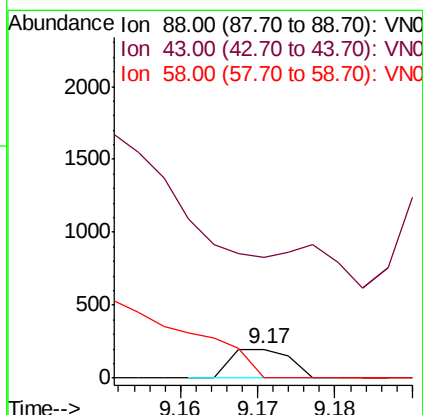
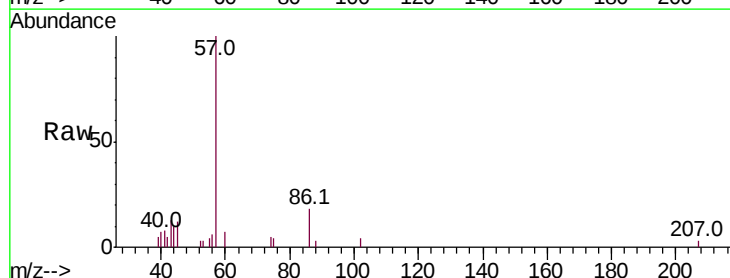
Instrument :
MSVOA_N
ClientSampleId :
PB132513ZHE#05

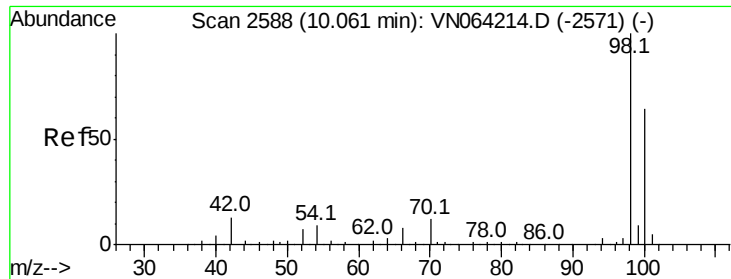
Tot Ion: 41 Resp: 5471
Ion Ratio Lower Upper
41 100
69 0.5 57.3 85.9#
39 0.0 48.6 73.0#



#49
1,4-Dioxane
Concen: 2.297 ug/l
RT: 9.17 min Scan# 2311
Delta R.T. 0.01 min
Lab File: VN064234.D
Acq: 21 Oct 2020 20:18

Tgt Ion: 88 Resp: 105
Ion Ratio Lower Upper
88 100
43 0.0 34.6 52.0#
58 0.0 59.0 88.6#





#50

Toluene-d8

Concen: 52.693 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN064234.D

Acq: 21 Oct 2020 20:18

Instrument :

MSVOA_N

ClientSampleId :

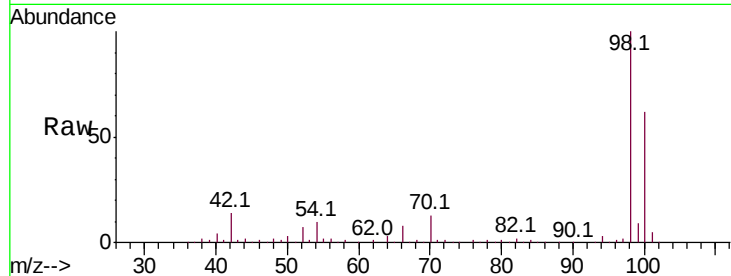
PB132513ZHE#05

Tot Ion: 98 Resp: 563507

Ion Ratio Lower Upper

98 100

100 63.0 50.8 76.2



Abundance Ion 98.00 (97.70 to 98.70): VN064214.D (-2571) (-)

Ion 100.00 (99.70 to 100.70): VN064214.D (-2571) (-)

10.06

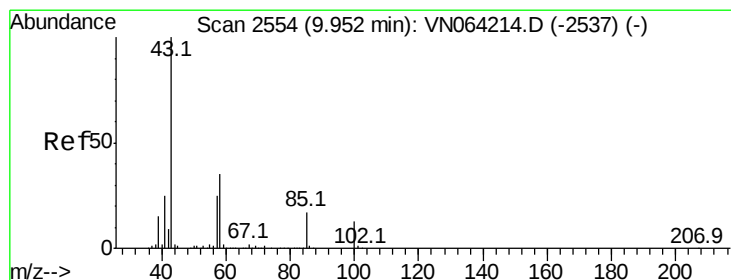
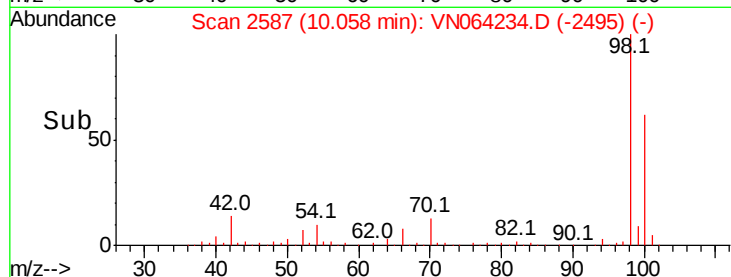
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.625 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN064234.D

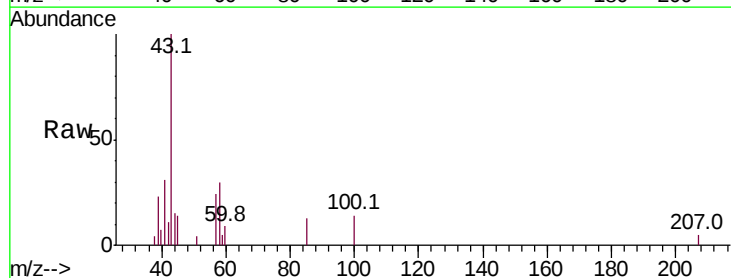
Acq: 21 Oct 2020 20:18

Tgt Ion: 43 Resp: 6496

Ion Ratio Lower Upper

43 100

58 38.0 28.6 42.8



Abundance Ion 43.00 (42.70 to 43.70): VN064214.D (-2537) (-)

Ion 58.00 (57.70 to 58.70): VN064214.D (-2537) (-)

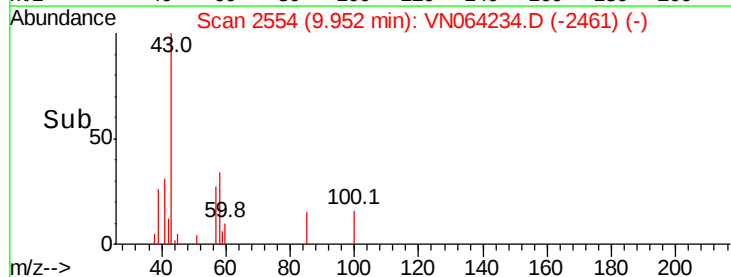
15000

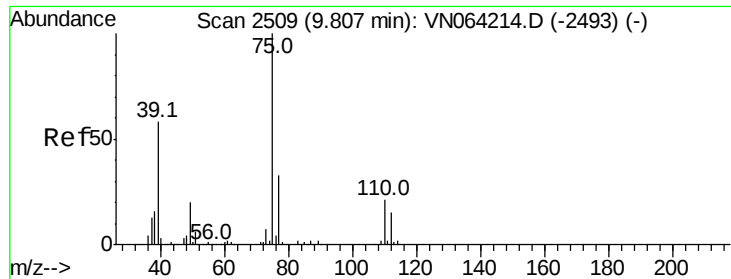
10000

5000

0

Time-->





#54

cis-1,3-Dichloropropene

Concen: 6.645 ug/l

RT: 9.87 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN064234.D

Acq: 21 Oct 2020 20:18

Instrument :

MSVOA_N

ClientSampleId :

PB132513ZHE#05

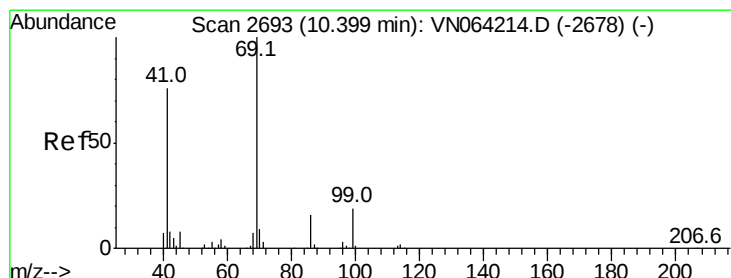
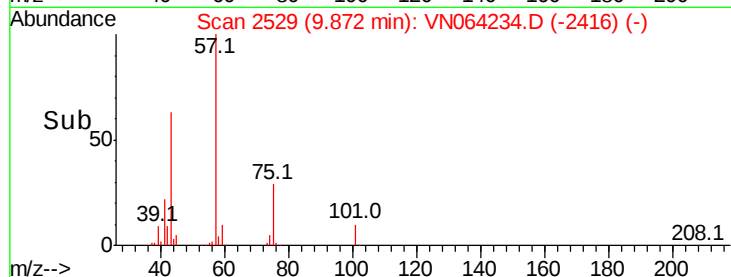
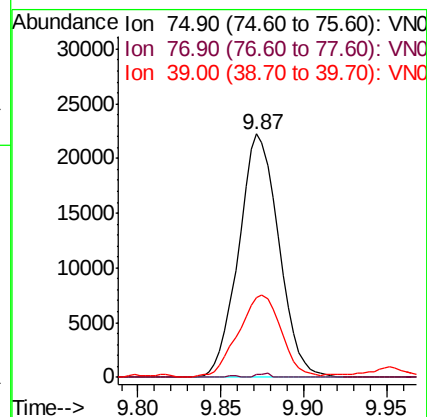
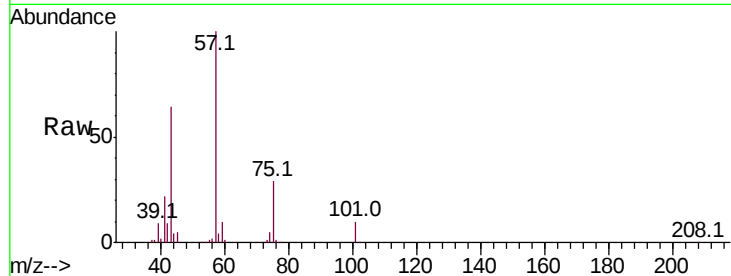
Tot Ion: 75 Resp: 37559

Ion Ratio Lower Upper

75 100

77 1.0 26.6 39.8#

39 32.8 46.7 70.1#



#56

Ethyl methacrylate

Concen: 0.281 ug/l

RT: 10.51 min Scan# 2729

Delta R.T. 0.12 min

Lab File: VN064234.D

Acq: 21 Oct 2020 20:18

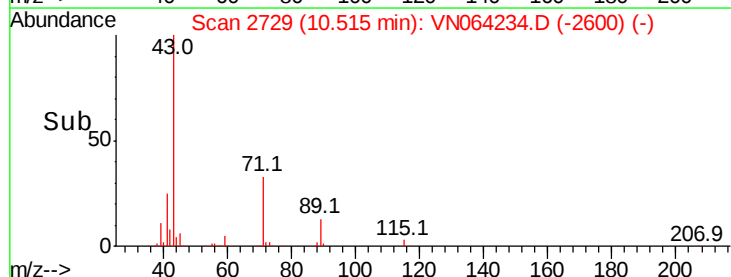
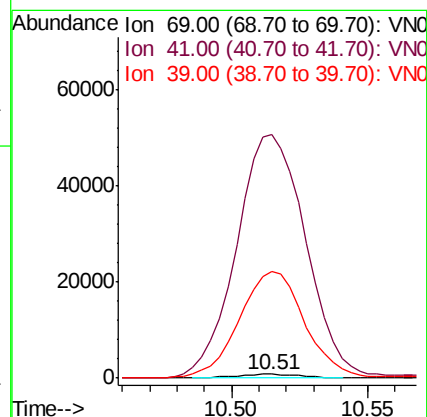
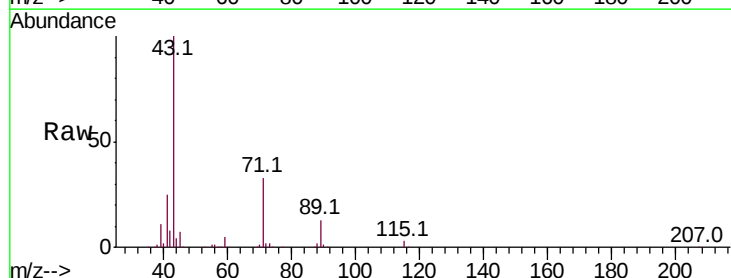
Tgt Ion: 69 Resp: 1283

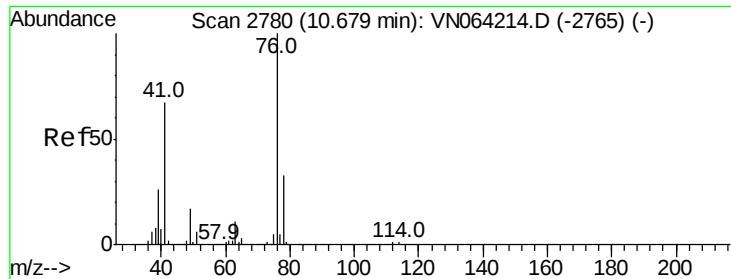
Ion Ratio Lower Upper

69 100

41 7015.6 61.4 92.2#

39 2883.9 36.0 54.0#

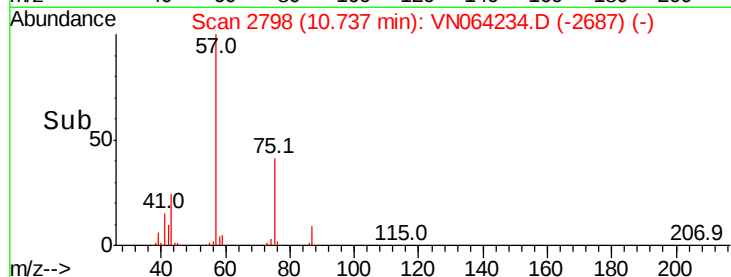
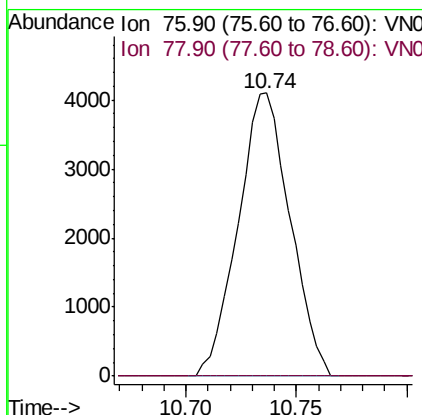
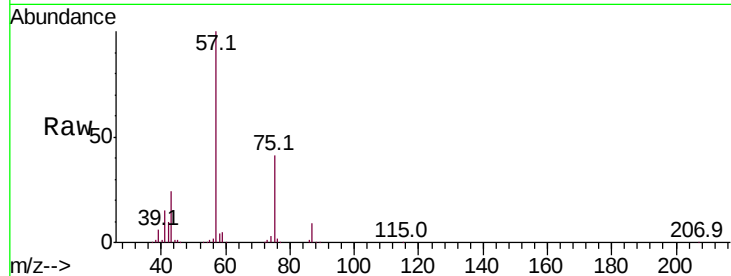




#57
 1,3-Dichloropropane
 Concen: 1.309 ug/l
 RT: 10.74 min Scan# 2798
 Delta R.T. 0.06 min
 Lab File: VN064234.D
 Acq: 21 Oct 2020 20:18

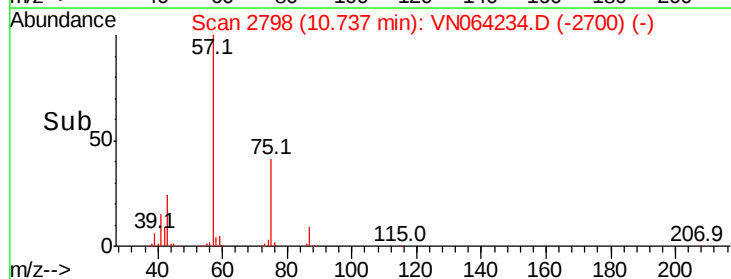
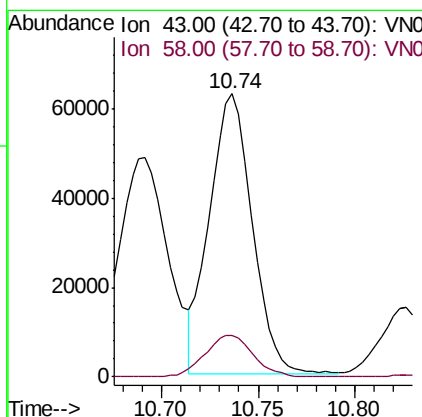
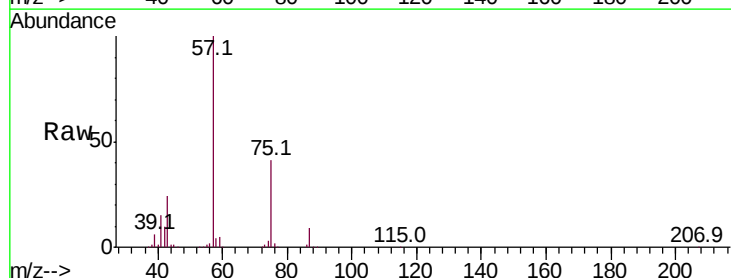
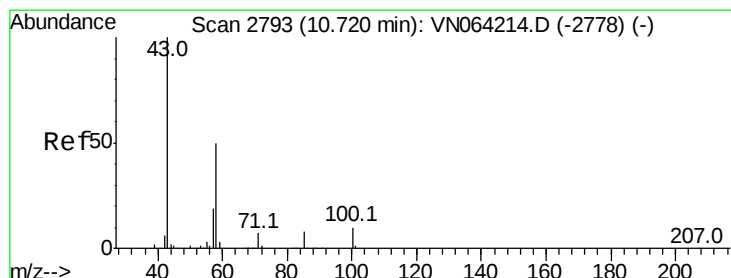
Instrument :
 MSVOA_N
 ClientSampleId :
 PB132513ZHE#05

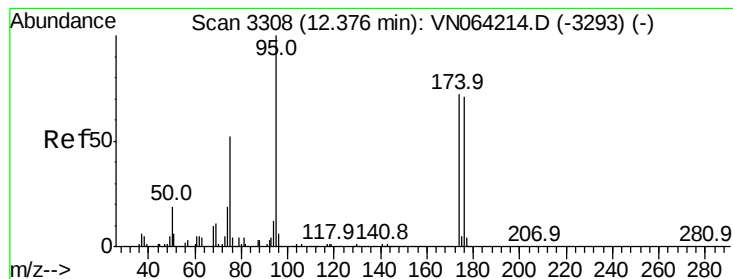
Tot Ion: 76 Resp: 6705
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.2#



#59
 2-Hexanone
 Concen: 33.063 ug/l
 RT: 10.74 min Scan# 2798
 Delta R.T. 0.02 min
 Lab File: VN064234.D
 Acq: 21 Oct 2020 20:18

Tgt Ion: 43 Resp: 96530
 Ion Ratio Lower Upper
 43 100
 58 16.7 24.8 74.3#





#62

4-Bromofluorobenzene

Concen: 57.217 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN064234.D

Acq: 21 Oct 2020 20:18

Instrument :

MSVOA_N

ClientSampleId :

PB132513ZHE#05

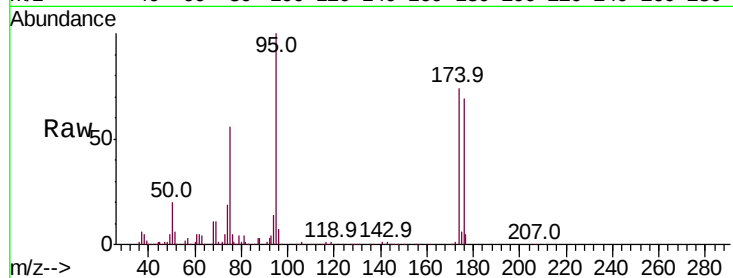
Tot Ion: 95 Resp: 248051

Ion Ratio Lower Upper

95 100

174 72.3 0.0 144.4

176 68.7 0.0 139.2



Abundance Ion 94.90 (94.60 to 95.60): VN064234.D (-3293) (-)

Ion 173.80 (173.50 to 174.50): VN064234.D (-3293) (-)

Ion 175.80 (175.50 to 176.50): VN064234.D (-3293) (-)

12.38

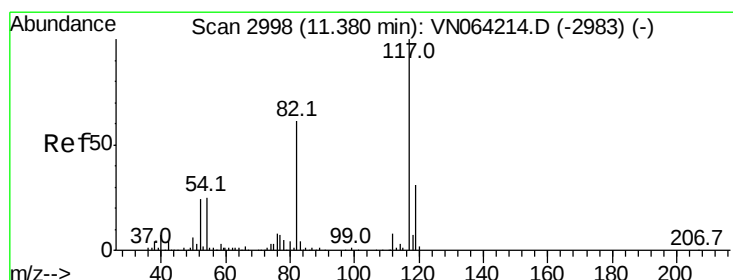
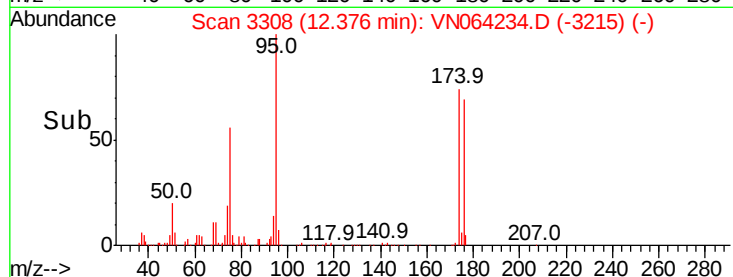
150000

100000

50000

0

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. 0.00 min

Lab File: VN064234.D

Acq: 21 Oct 2020 20:18

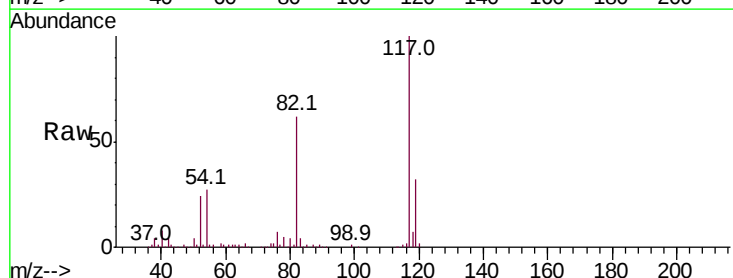
Tgt Ion: 117 Resp: 453490

Ion Ratio Lower Upper

117 100

82 61.9 48.8 73.2

119 32.1 24.7 37.1



Abundance Ion 116.90 (116.60 to 117.60): VN064234.D (-2983) (-)

Ion 82.00 (81.70 to 82.70): VN064234.D (-2983) (-)

Ion 118.90 (118.60 to 119.60): VN064234.D (-2983) (-)

11.38

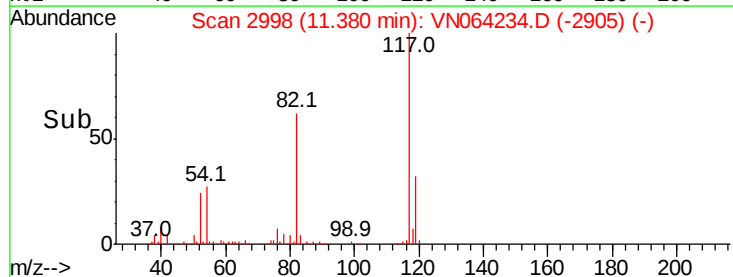
300000

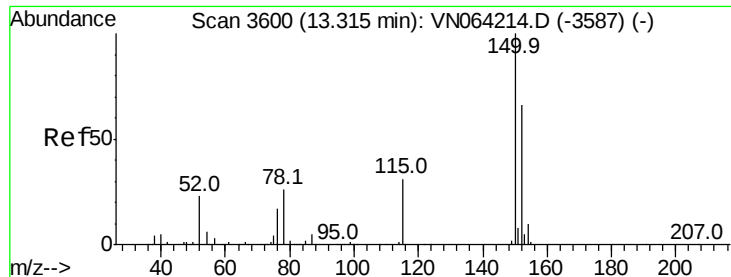
200000

100000

0

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN064234.D

Acq: 21 Oct 2020 20:18

Instrument :

MSVOA_N

ClientSampleId :

PB132513ZHE#05

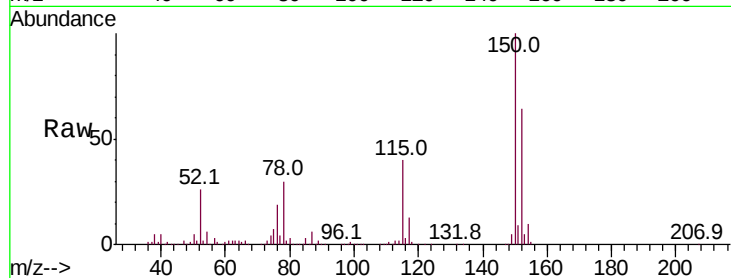
Tot Ion:152 Resp: 205168

Ion Ratio Lower Upper

152 100

115 64.5 32.0 96.2

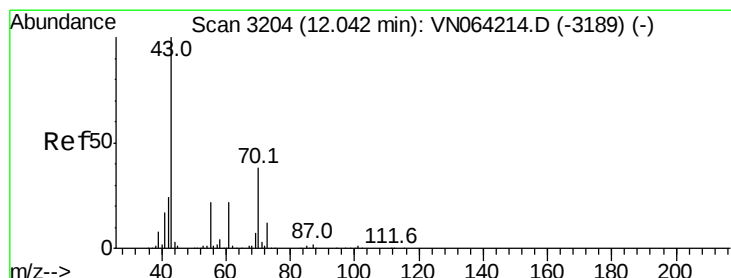
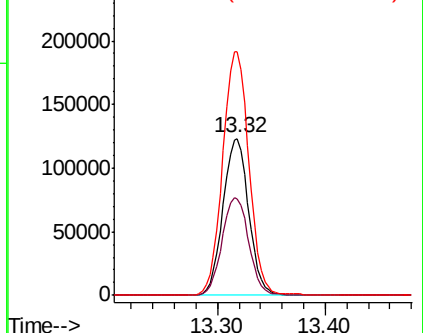
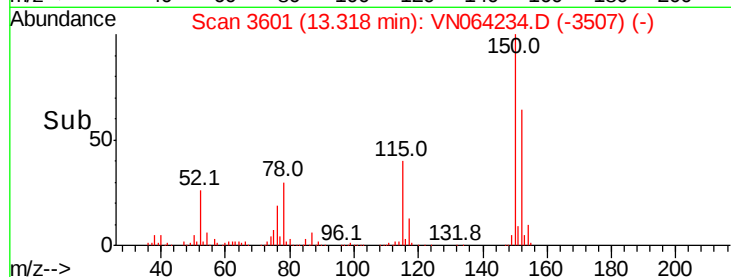
150 158.0 0.0 356.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 0.498 ug/l

RT: 12.01 min Scan# 3193

Delta R.T. -0.04 min

Lab File: VN064234.D

Acq: 21 Oct 2020 20:18

Tgt Ion: 43 Resp: 3364

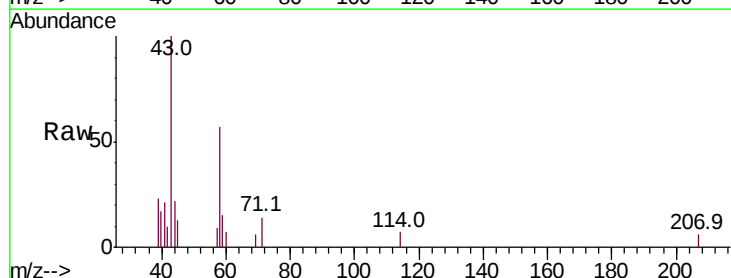
Ion Ratio Lower Upper

43 100

70 0.0 30.2 45.4#

55 3.6 18.0 27.0#

61 0.0 17.4 26.2#

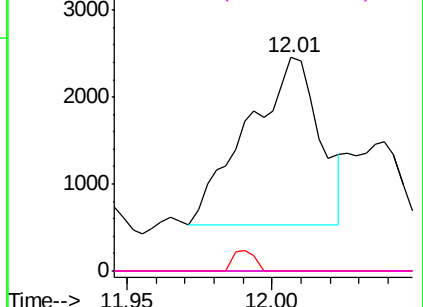
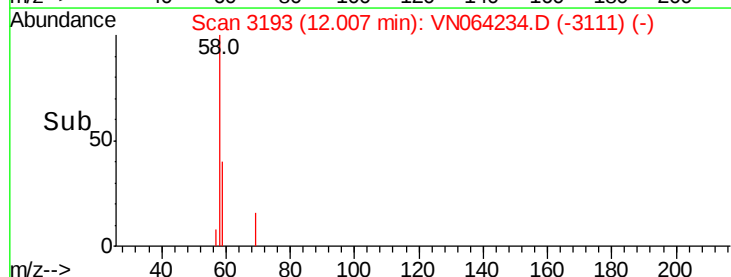


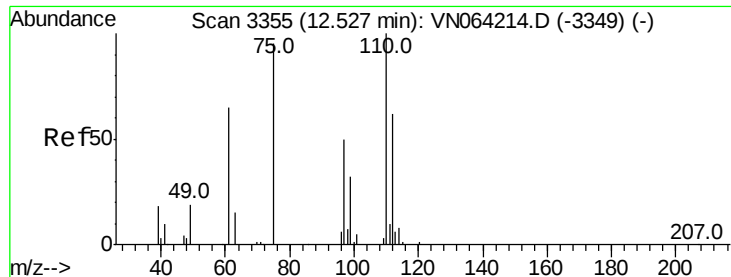
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 31.257 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064234.D

Acq: 21 Oct 2020 20:18

Instrument :

MSVOA_N

ClientSampleId :

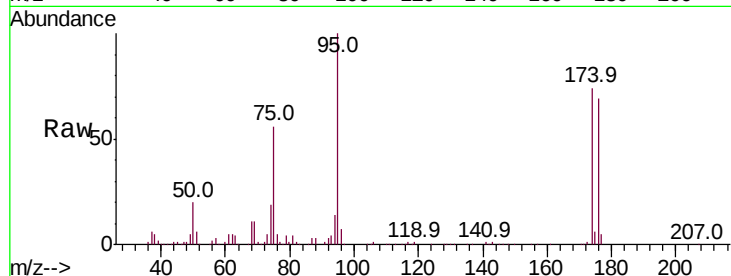
PB132513ZHE#05

Tot Ion: 75 Resp: 135193

Ion Ratio Lower Upper

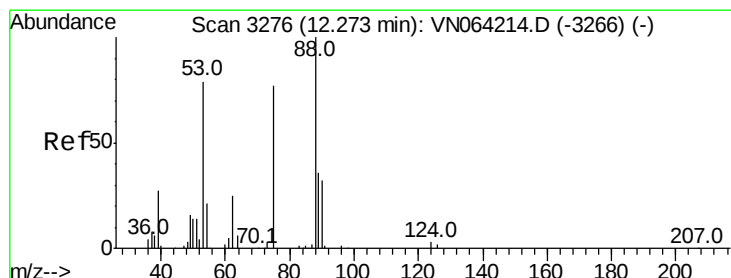
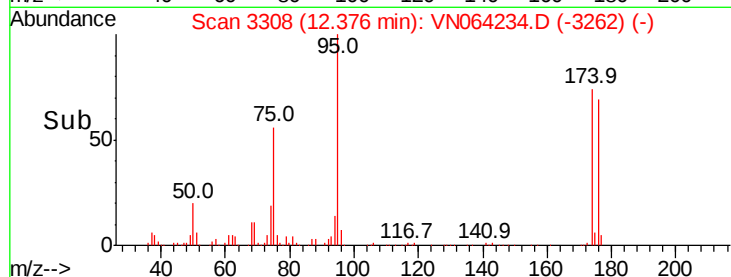
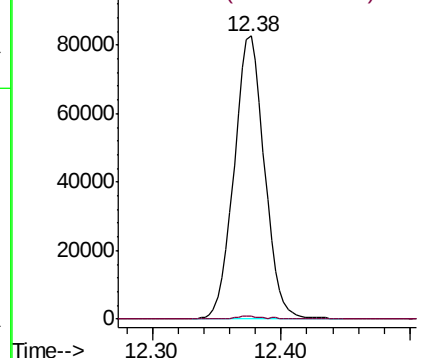
75 100

77 0.8 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: 78.914 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064234.D

Acq: 21 Oct 2020 20:18

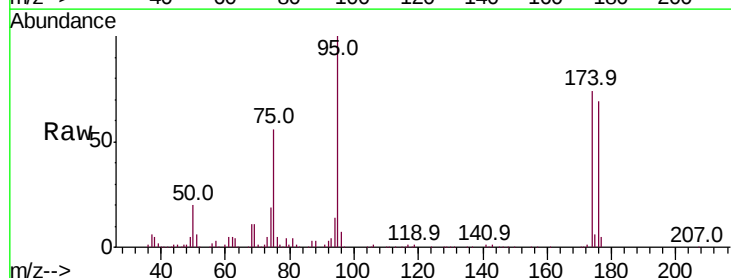
Tgt Ion: 75 Resp: 135193

Ion Ratio Lower Upper

75 100

53 0.0 81.0 121.4#

89 0.1 38.7 58.1#



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

