

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092220\
 Data File : VN063566.D
 Acq On : 23 Sep 2020 5:40
 Operator : JC/MD
 Sample : PB131772ZHE#04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB131772ZHE#04

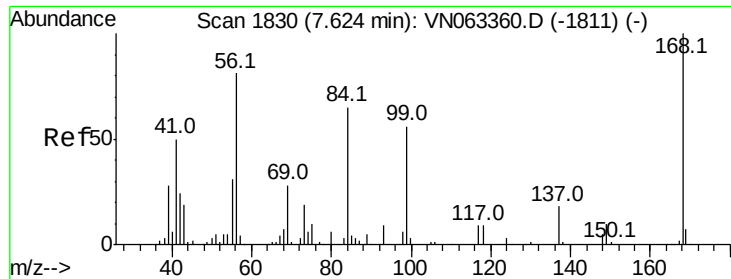
Quant Time: Sep 23 07:23:40 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 16 13:05:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	212892	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	411962	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	411560	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	170667	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	180865	49.91	ug/l	0.00
Spiked Amount			Recovery	=	99.82%	
35) Dibromofluoromethane	7.55	113	131807	46.22	ug/l	0.00
Spiked Amount			Recovery	=	92.44%	
50) Toluene-d8	10.06	98	519427	48.44	ug/l	0.00
Spiked Amount			Recovery	=	96.88%	
62) 4-Bromofluorobenzene	12.38	95	208521	53.04	ug/l	0.00
Spiked Amount			Recovery	=	106.08%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	398	0.793	ug/l #	72
16) Acetone	3.78	43	31166	26.759	ug/l	94
18) Methyl Acetate	4.29	43	3296	1.115	ug/l #	78
20) Methylene Chloride	4.50	84	17880	6.059	ug/l #	85
25) 2-Butanone	6.80	43	3329	1.858	ug/l	92
29) Tetrahydrofuran	7.18	42	501	0.410	ug/l #	73
31) Cyclohexane	7.62	56	6444	1.287	ug/l #	30
36) 1,1-Dichloropropene	7.62	75	20279	4.621	ug/l #	50
37) Ethyl Acetate	6.80	43	3329	0.773	ug/l #	72
38) Carbon Tetrachloride	7.63	117	24036	5.365	ug/l #	17
43) Isopropyl Acetate	8.13	43	77959	10.122	ug/l	100
45) 1,2-Dichloropropane	9.23	63	1816	0.532	ug/l #	43
48) Methyl methacrylate	9.15	41	4536	1.199	ug/l #	15
51) 4-Methyl-2-Pentanone	9.95	43	10266	2.381	ug/l	90
54) cis-1,3-Dichloropropene	9.87	75	31797	5.795	ug/l #	59
56) Ethyl methacrylate	10.52	69	1532	0.328	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	6149	1.140	ug/l #	42
59) 2-Hexanone	10.74	43	88316	28.271	ug/l #	54
74) N-amyl acetate	12.01	43	5292	0.817	ug/l #	50
76) 1,2,3-Trichloropropane	12.38	75	113416	26.849	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	4478	0.393	ug/l	94
81) trans-1,4-Dichloro-2-buten	12.38	75	113416	73.609	ug/l #	7

(#) = 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: VN063566.D

Acq: 23 Sep 2020 5:40

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ClientSampleId :

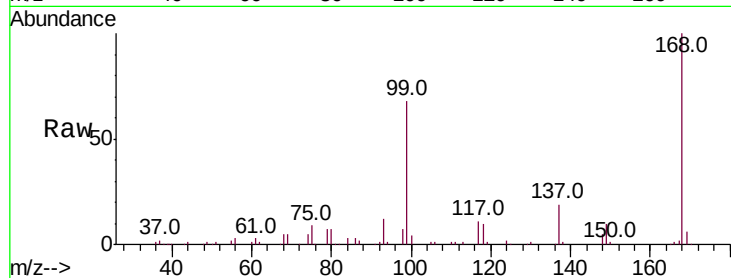
PB131772ZHE#04

Tot Ion:168 Resp: 212892

Ion Ratio Lower Upper

168 100

99 67.9 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

80000

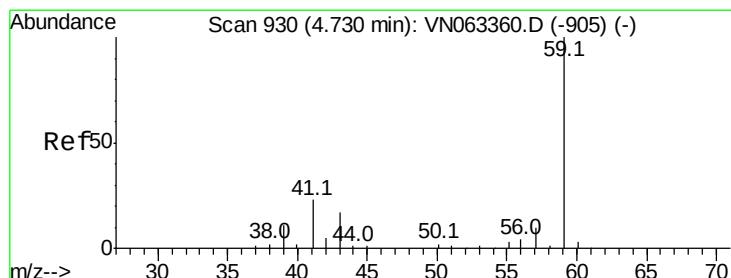
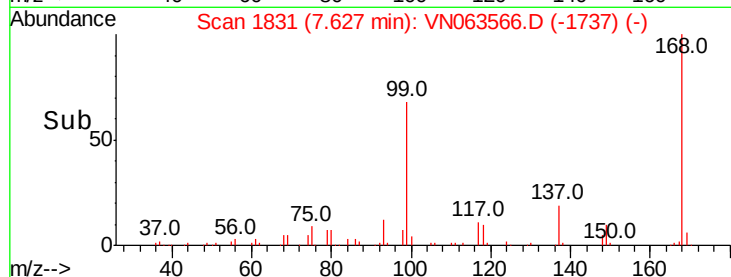
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 0.793 ug/l

RT: 4.73 min Scan# 929

Delta R.T. -0.00 min

Lab File: VN063566.D

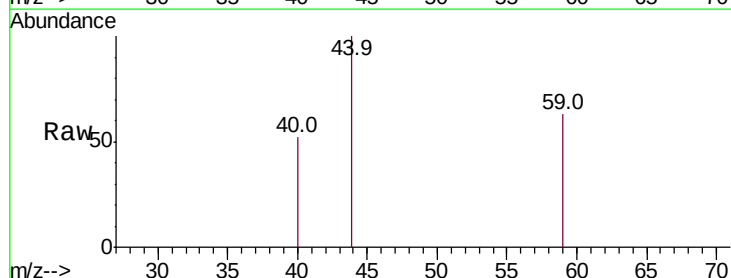
Acq: 23 Sep 2020 5:40

Tgt Ion: 59 Resp: 398

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.73

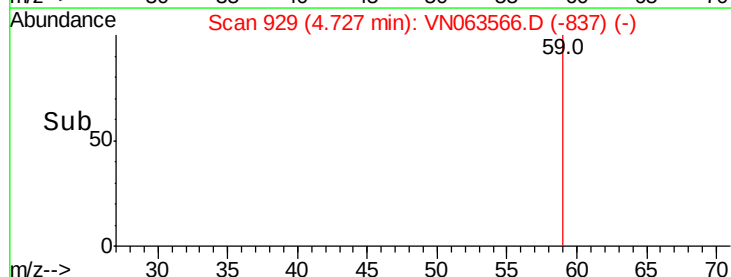
300

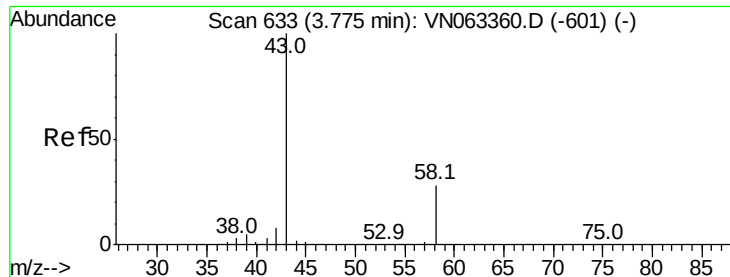
200

100

0

Time--> 4.71 4.72 4.73 4.74 4.75





#16

Acetone

Concen: 26.759 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN063566.D

Acq: 23 Sep 2020 5:40

Instrument :

MSVOA_N

ClientSampleId :

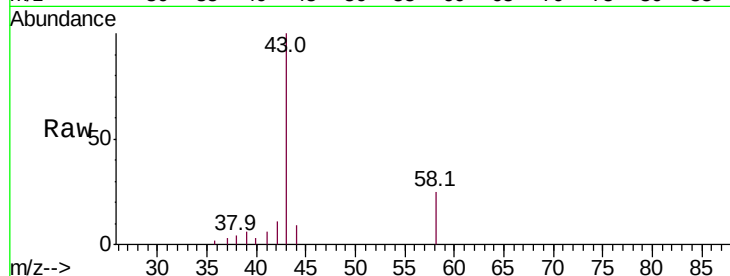
PB131772ZHE#04

Tot Ion: 43 Resp: 31166

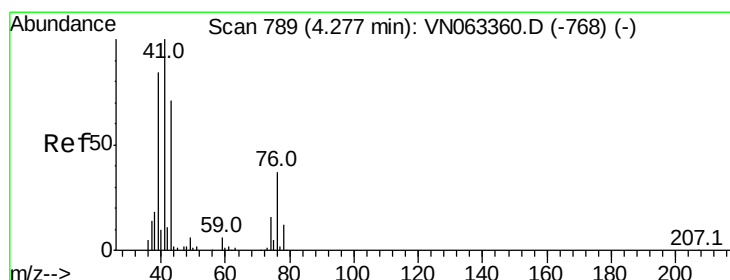
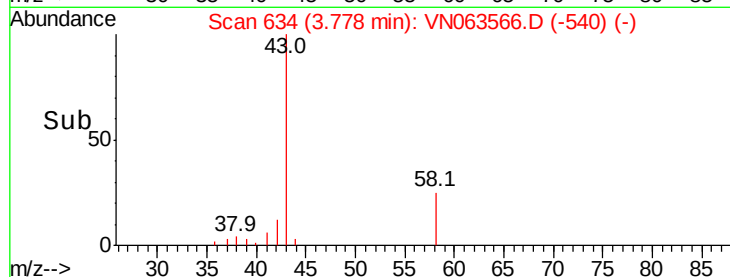
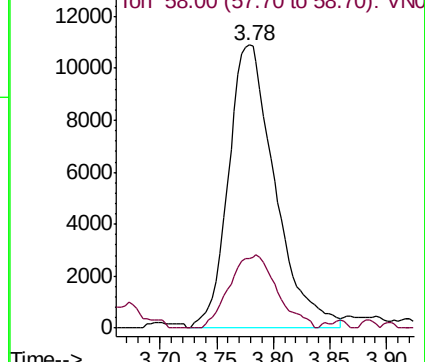
Ion Ratio Lower Upper

43 100

58 24.7 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VN063566.D (-540) (-)



#18

Methyl Acetate

Concen: 1.115 ug/l

RT: 4.29 min Scan# 792

Delta R.T. 0.01 min

Lab File: VN063566.D

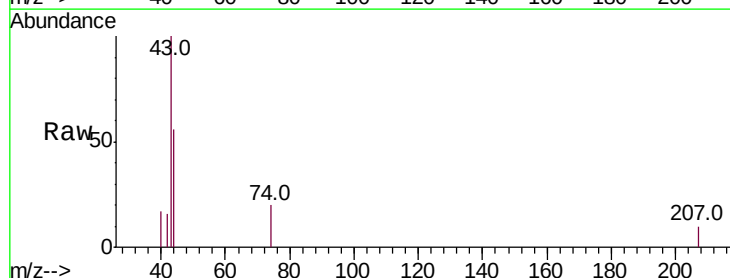
Acq: 23 Sep 2020 5:40

Tgt Ion: 43 Resp: 3296

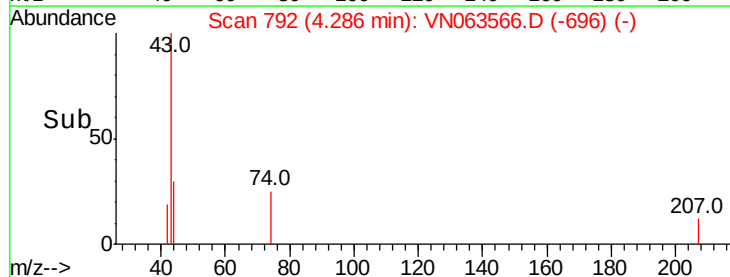
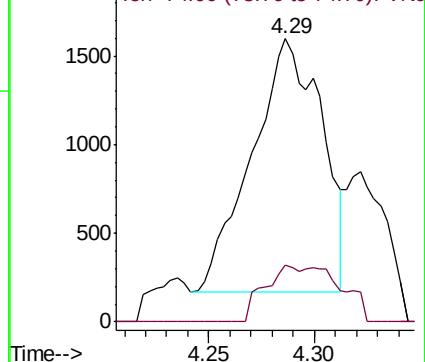
Ion Ratio Lower Upper

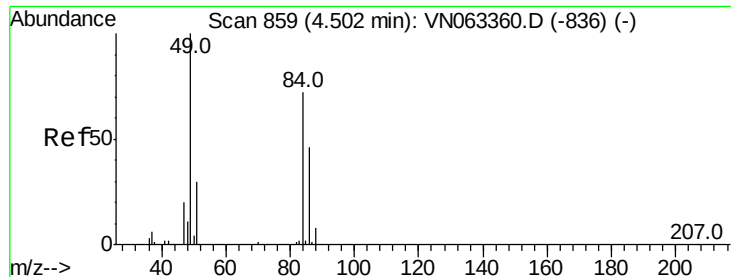
43 100

74 11.3 17.4 26.2#



Abundance Ion 43.00 (42.70 to 43.70): VN063566.D (-696) (-)

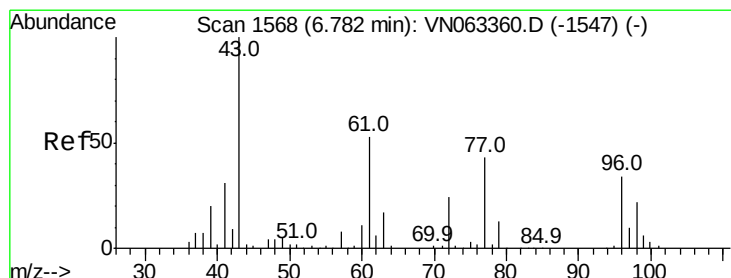
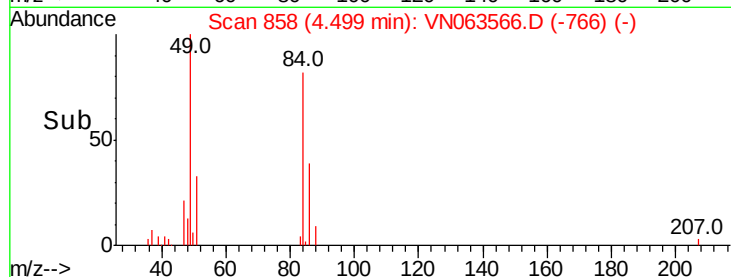
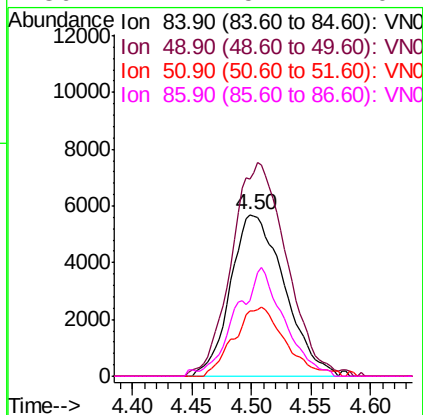
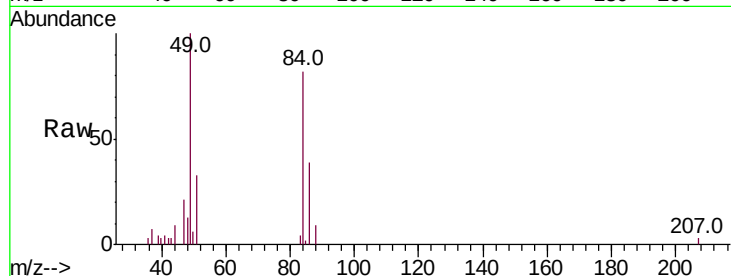




#20
Methvlene Chloride
Concen: 6.059 ug/l
RT: 4.50 min Scan# 858
Delta R.T. -0.00 min
Lab File: VN063566.D
Acq: 23 Sep 2020 5:40

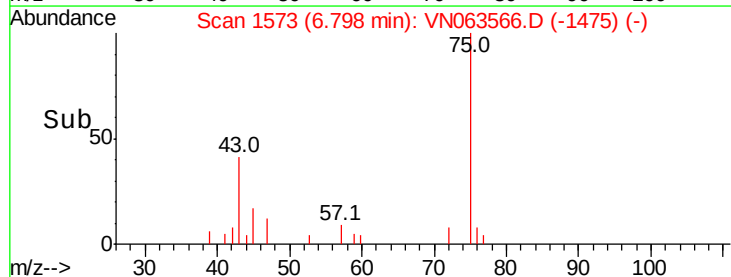
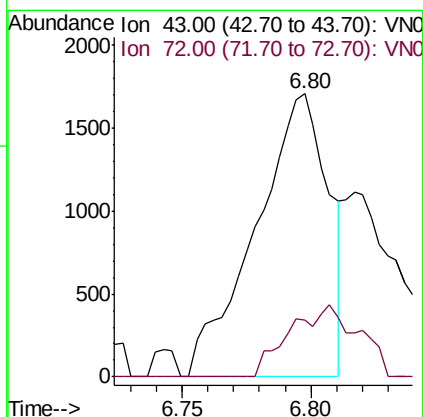
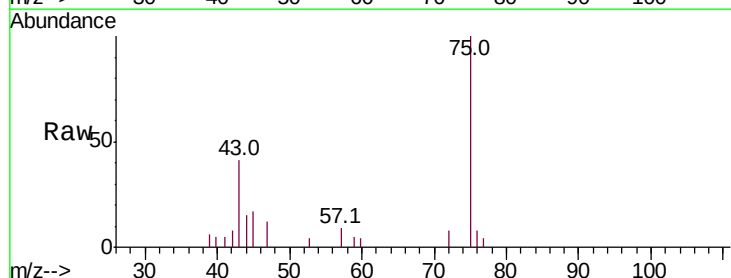
Instrument :
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PB131772ZHE#04

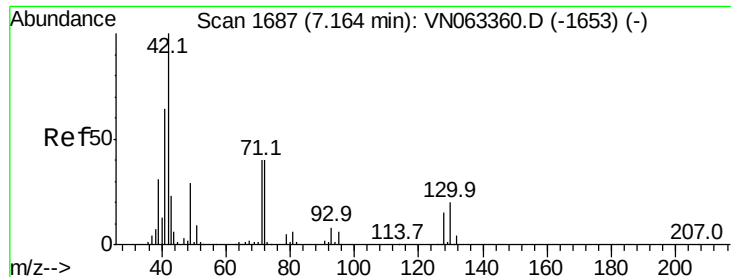
Tot Ion: 84 Resp: 17880
Ion Ratio Lower Upper
84 100
49 119.4 110.7 166.1
51 40.4 32.9 49.3
86 47.1 51.1 76.7#



#25
2-Butanone
Concen: 1.858 ug/l
RT: 6.80 min Scan# 1573
Delta R.T. 0.02 min
Lab File: VN063566.D
Acq: 23 Sep 2020 5:40

Tgt Ion: 43 Resp: 3329
Ion Ratio Lower Upper
43 100
72 20.0 19.2 28.8





#29

Tetrahydrofuran

Concen: 0.410 ug/l

RT: 7.18 min Scan# 1693

Delta R.T. 0.02 min

Lab File: VN063566.D

Acq: 23 Sep 2020 5:40

Instrument :

MSVOA_N

ClientSampleId :

PB131772ZHE#04

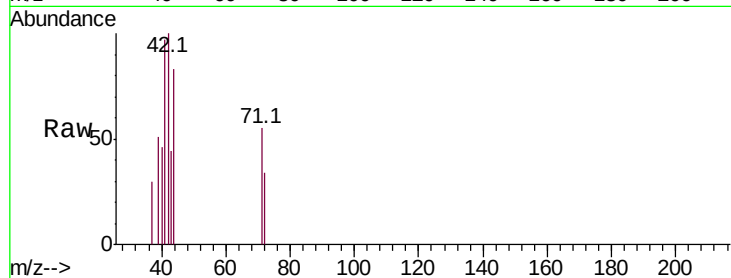
Tot Ion: 42 Resp: 501

Ion Ratio Lower Upper

42 100

72 54.3 32.1 48.1#

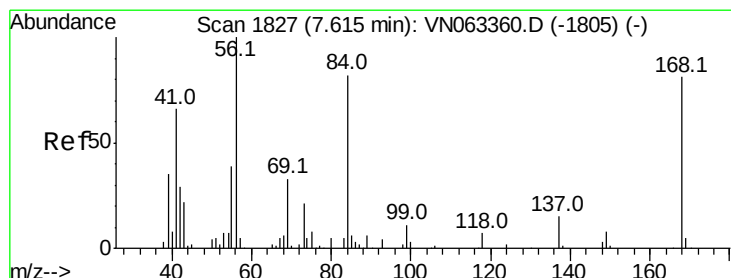
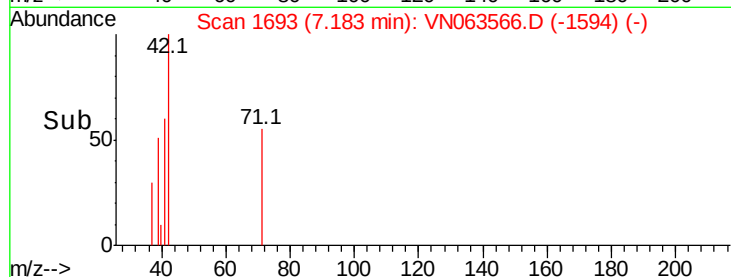
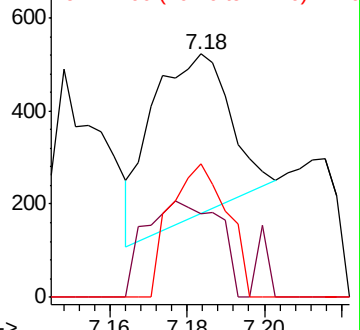
71 58.1 31.2 46.8#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 1.287 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN063566.D

Acq: 23 Sep 2020 5:40

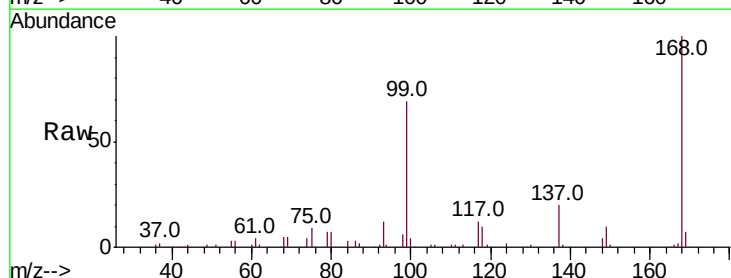
Tgt Ion: 56 Resp: 6444

Ion Ratio Lower Upper

56 100

69 149.6 26.1 39.1#

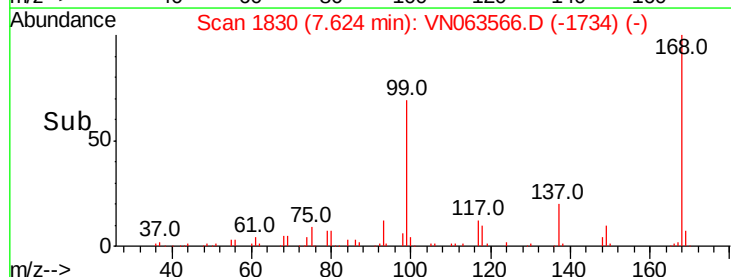
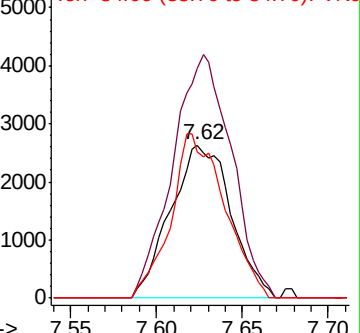
84 95.3 65.4 98.2

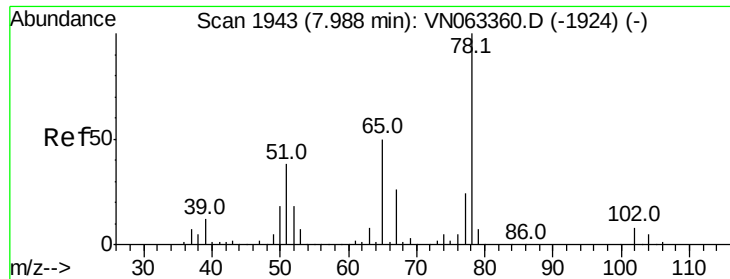


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

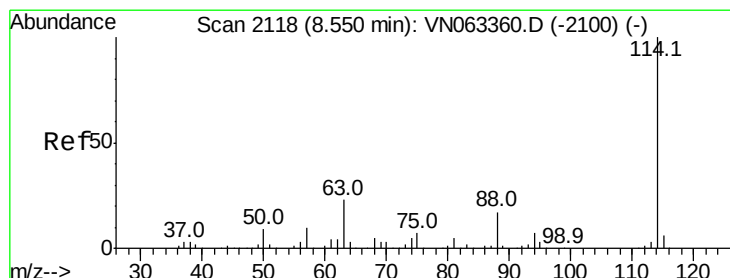
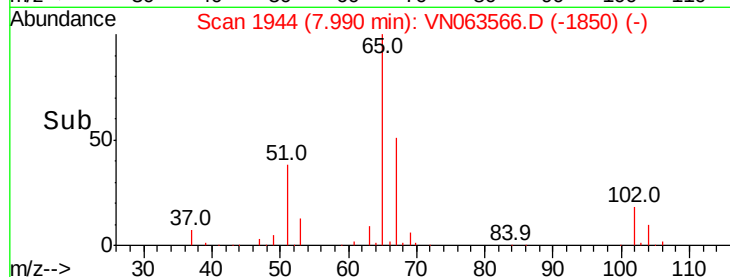
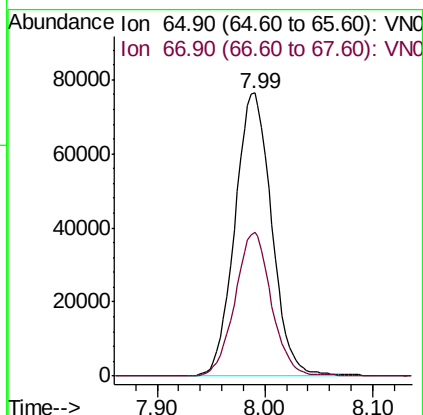
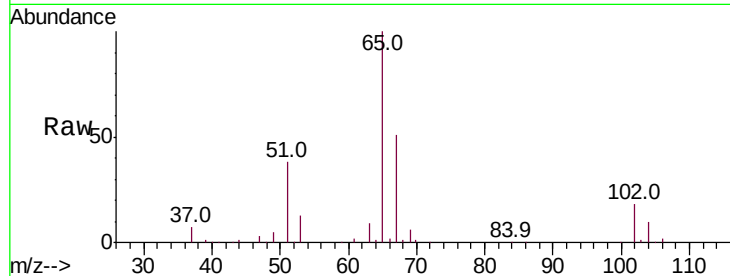




#33
 1,2-Dichloroethane-d4
 Concen: 49.908 ug/l
 RT: 7.99 min Scan# 1944
 Delta R.T. 0.00 min
 Lab File: VN063566.D
 Acq: 23 Sep 2020 5:40

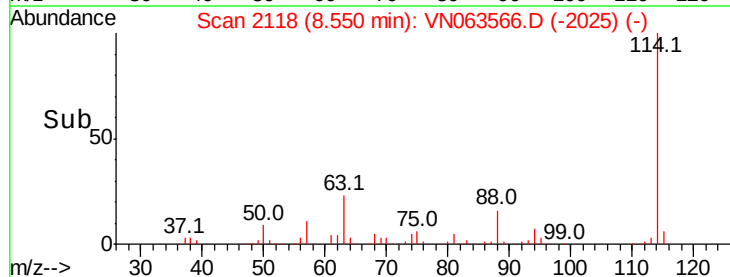
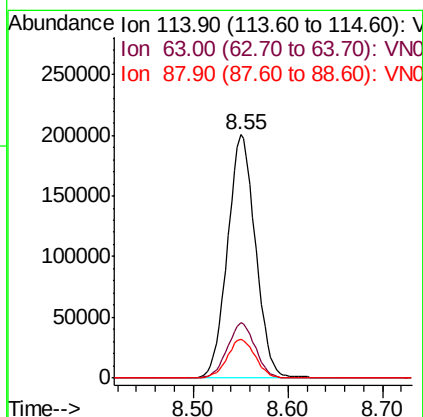
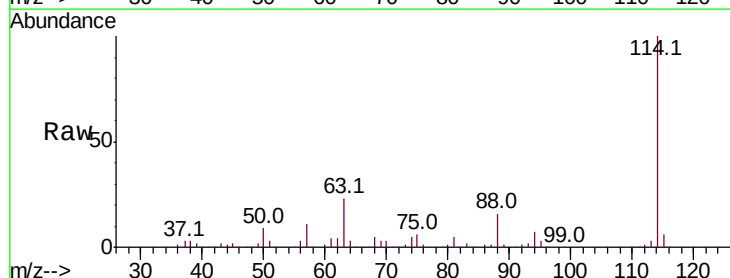
Instrument :
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 PB131772ZHE#04

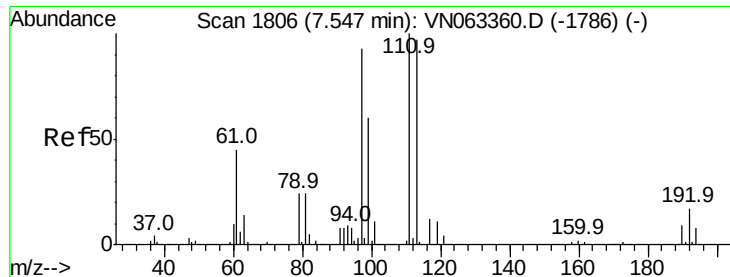
Tot Ion: 65 Resp: 180865
 Ion Ratio Lower Upper
 65 100
 67 50.1 0.0 104.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN063566.D
 Acq: 23 Sep 2020 5:40

Tgt Ion: 114 Resp: 411962
 Ion Ratio Lower Upper
 114 100
 63 22.6 0.0 46.4
 88 15.8 0.0 33.2

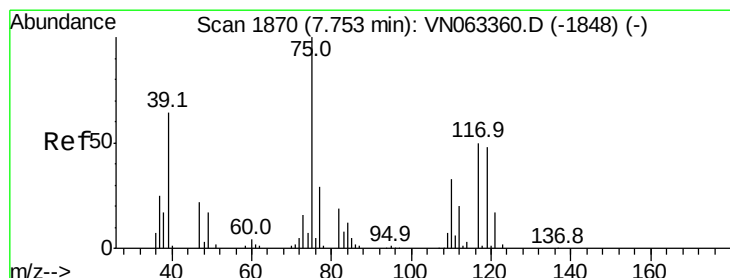
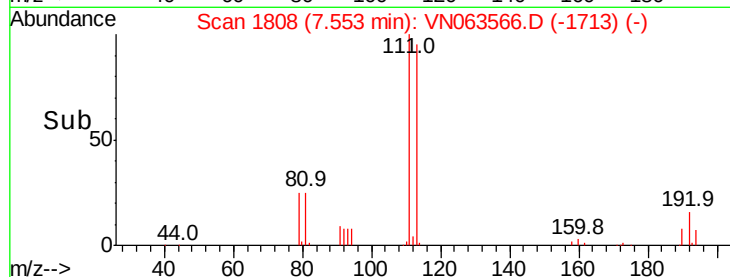
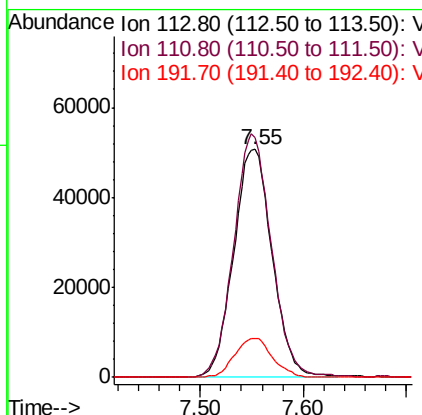
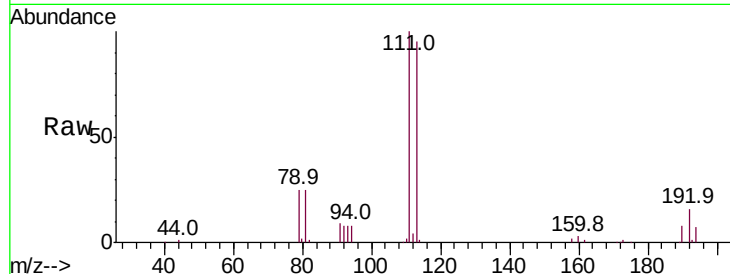




#35
 Dibromofluoromethane
 Concen: 46.217 ug/l
 RT: 7.55 min Scan# 1808
 Delta R.T. 0.01 min
 Lab File: VN063566.D
 Acq: 23 Sep 2020 5:40

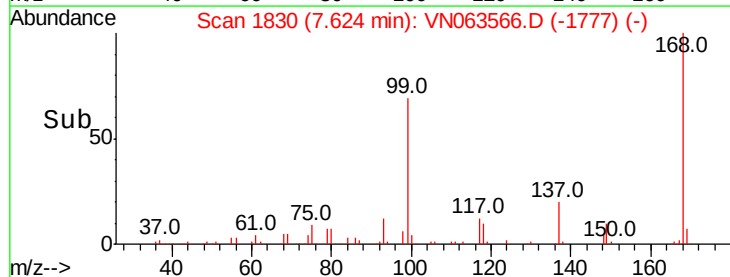
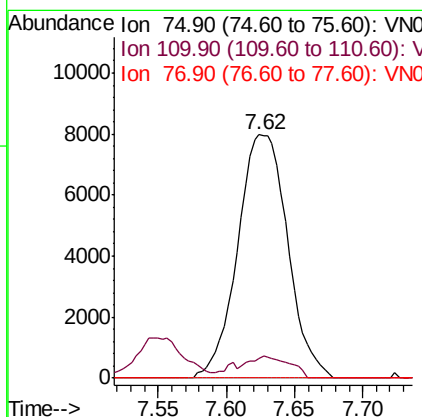
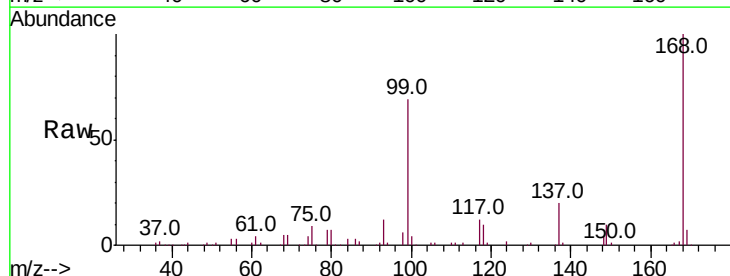
Instrument :
 MSVOA_N
 ClientSampleId :
 PB131772ZHE#04

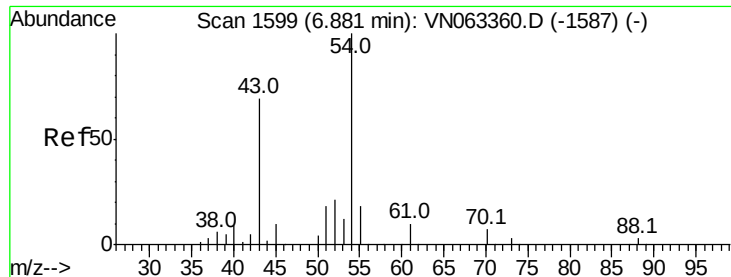
Tot Ion	Ratio	Lower	Upper
113	100		
111	104.2	82.9	124.3
192	16.8	13.9	20.9



#36
 1,1-Dichloropropene
 Concen: 4.621 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN063566.D
 Acq: 23 Sep 2020 5:40

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.5	16.5	49.5#
77	0.0	24.6	36.8#

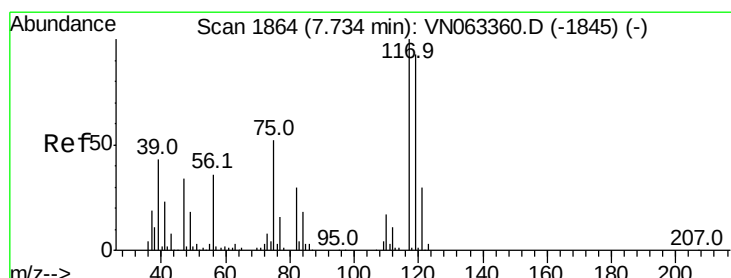
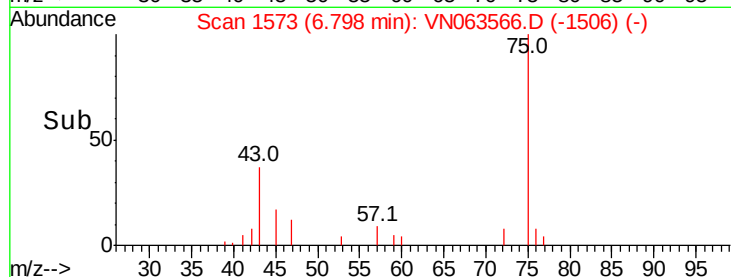
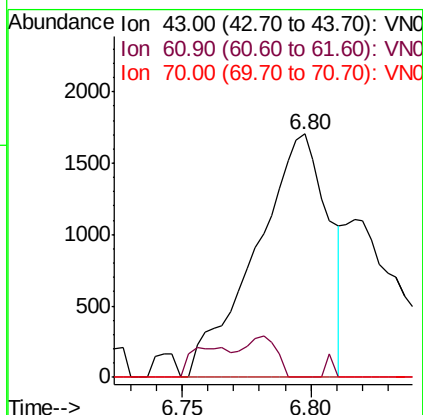
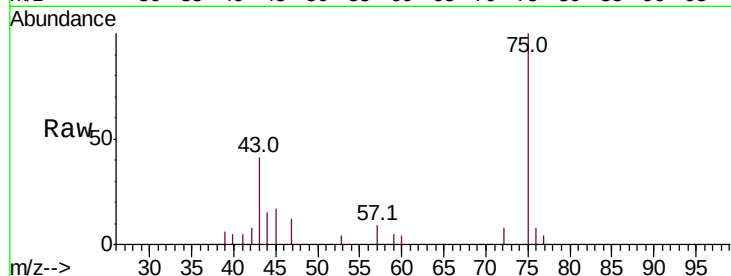




#37
Ethyl Acetate
Concen: 0.773 ug/l
RT: 6.80 min Scan# 1573
Delta R.T. -0.08 min
Lab File: VN063566.D
Acq: 23 Sep 2020 5:40

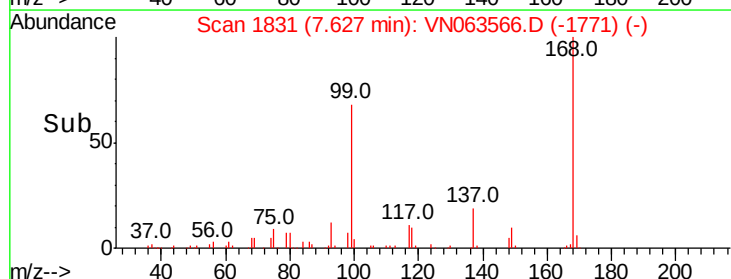
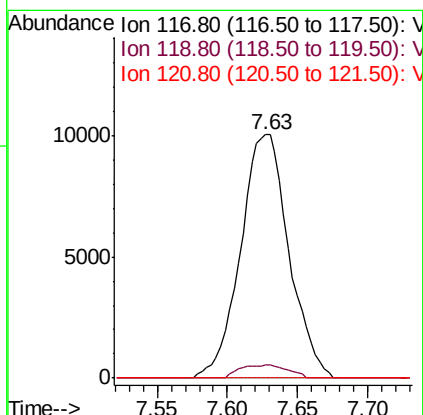
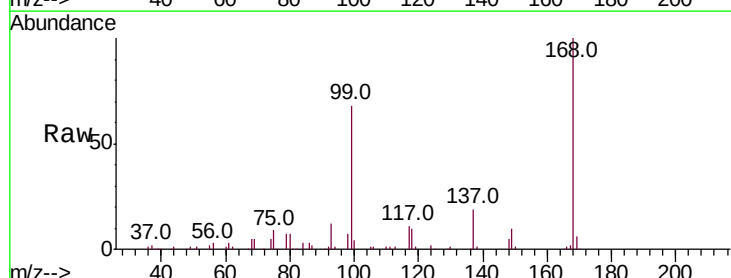
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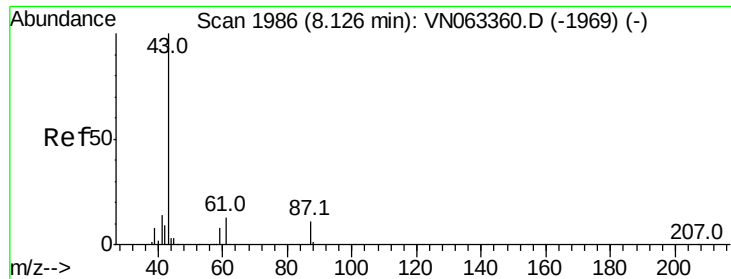
Tot Ion: 43 Resp: 3329
Ion Ratio Lower Upper
43 100
61 0.9 10.6 15.8#
70 0.0 7.2 10.8#



#38
Carbon Tetrachloride
Concen: 5.365 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. -0.11 min
Lab File: VN063566.D
Acq: 23 Sep 2020 5:40

Tgt Ion: 117 Resp: 24036
Ion Ratio Lower Upper
117 100
119 5.2 74.5 111.7#
121 0.0 24.1 36.1#





#43

Isopropyl Acetate

Concen: 10.122 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VN063566.D

Acq: 23 Sep 2020 5:40

Instrument :

MSVOA_N

ClientSampleId :

PB131772ZHE#04

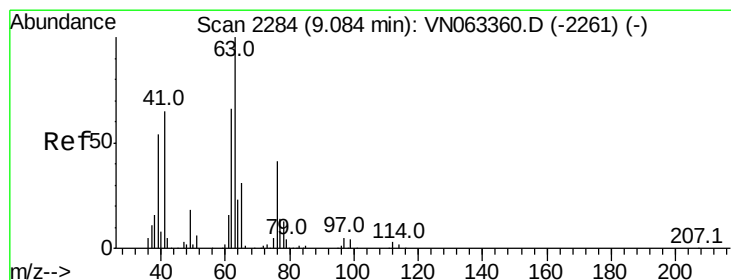
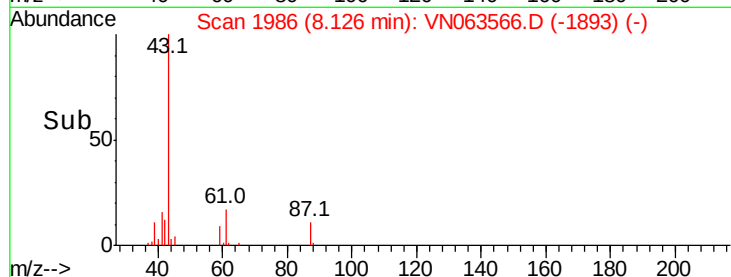
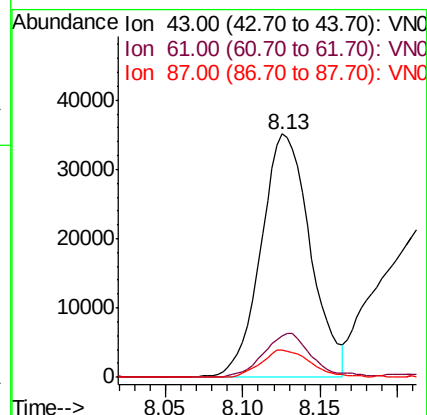
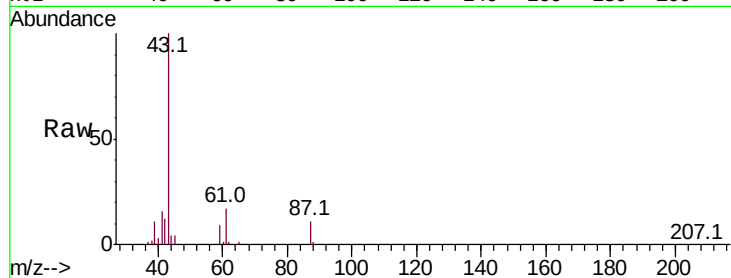
Tot Ion: 43 Resp: 77959

Ion Ratio Lower Upper

43 100

61 17.5 14.2 21.2

87 11.2 9.0 13.6



#45

1,2-Dichloropropane

Concen: 0.532 ug/l

RT: 9.23 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN063566.D

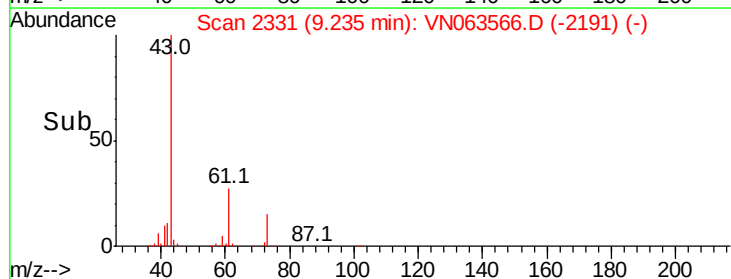
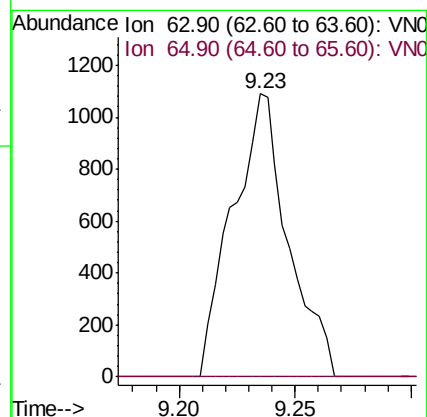
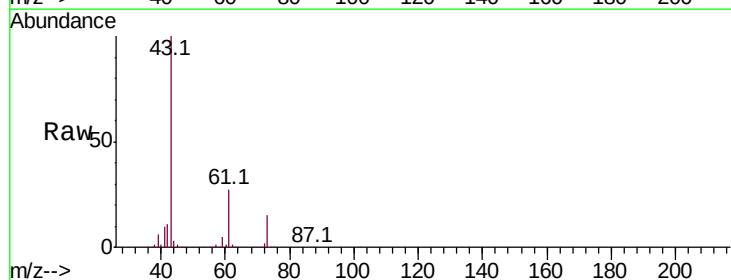
Acq: 23 Sep 2020 5:40

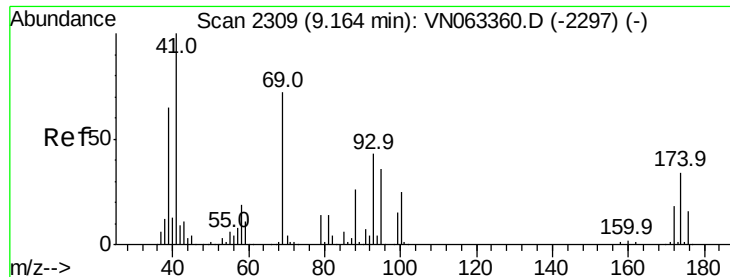
Tgt Ion: 63 Resp: 1816

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.6#

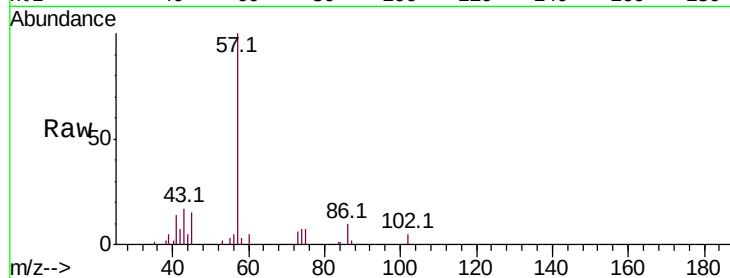




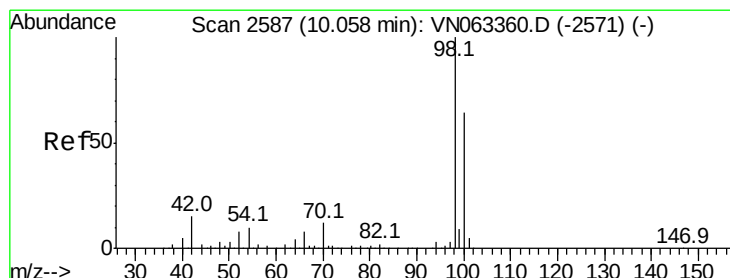
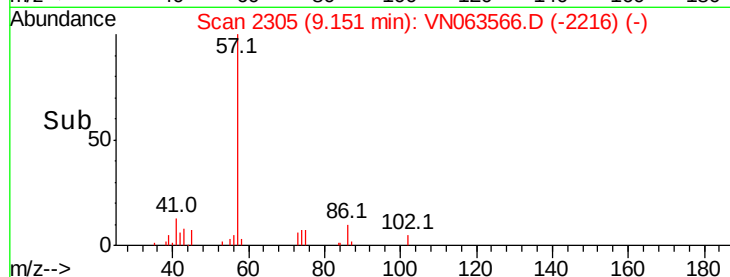
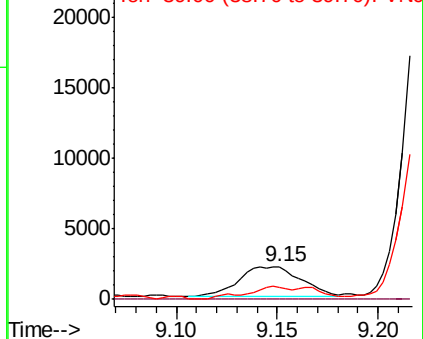
#48
Methvl methacrylate
Concen: 1.199 ug/l
RT: 9.15 min Scan# 2305
Delta R.T. -0.01 min
Lab File: VN063566.D
Acq: 23 Sep 2020 5:40

Instrument :
MSVOA_N
ClientSampleId :
PB131772ZHE#04

Tot Ion: 41 Resp: 4536
Ion Ratio Lower Upper
41 100
69 0.0 59.3 88.9#
39 0.0 52.9 79.3#

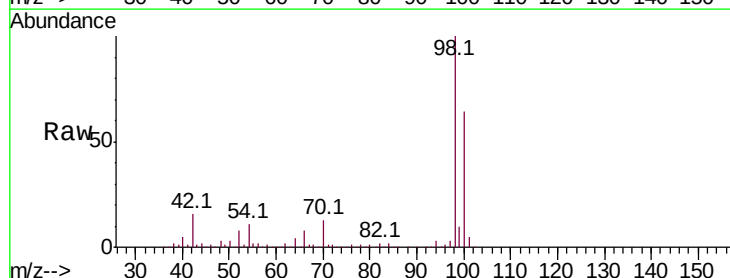


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

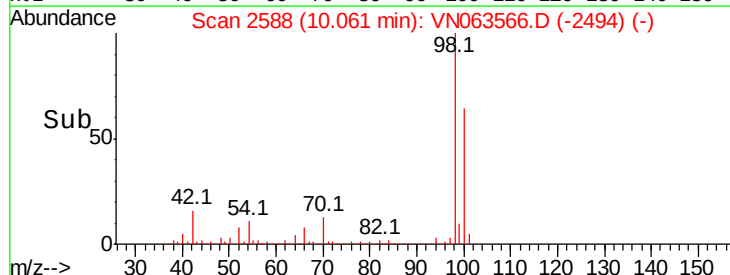
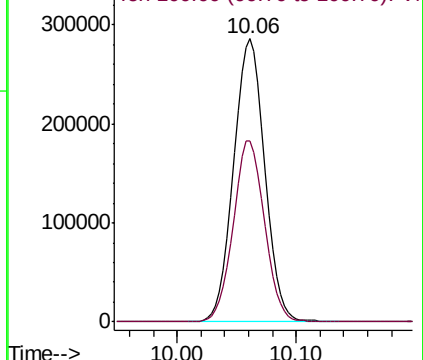


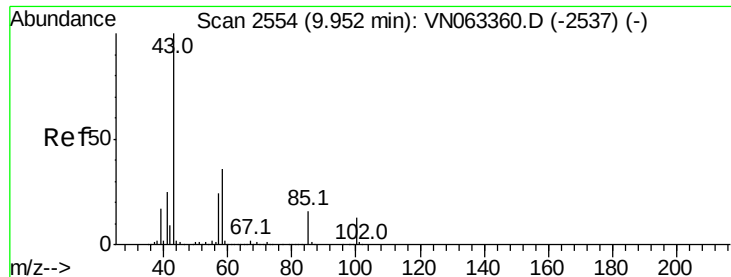
#50
Toluene-d8
Concen: 48.437 ug/l
RT: 10.06 min Scan# 2588
Delta R.T. 0.00 min
Lab File: VN063566.D
Acq: 23 Sep 2020 5:40

Tgt Ion: 98 Resp: 519427
Ion Ratio Lower Upper
98 100
100 64.4 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: 2.381 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN063566.D

Acq: 23 Sep 2020 5:40

Instrument :

MSVOA_N

ClientSampleId :

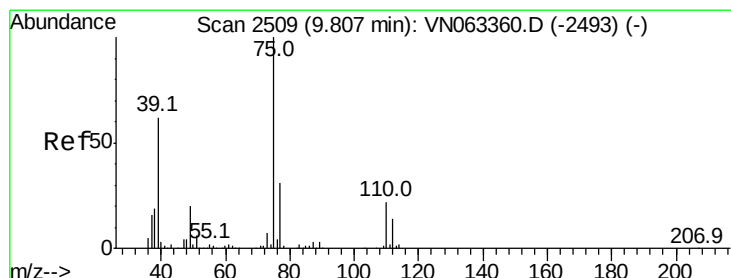
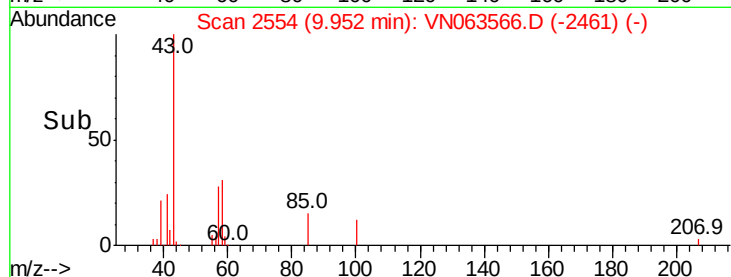
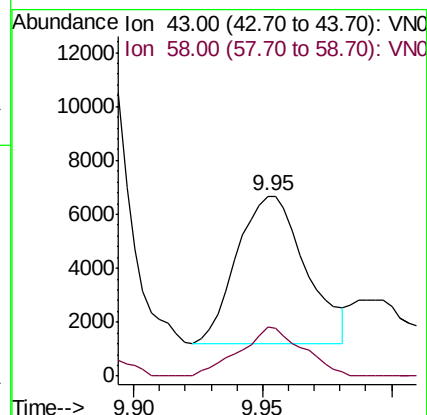
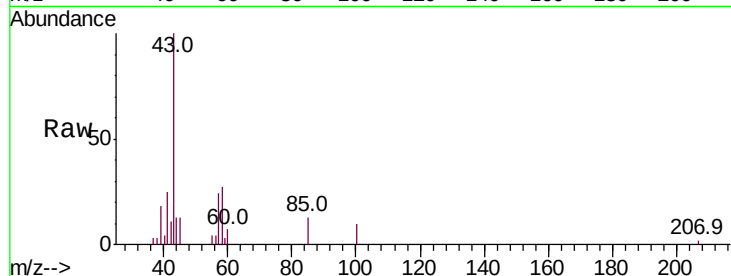
PB131772ZHE#04

Tot Ion: 43 Resp: 10266

Ion Ratio Lower Upper

43 100

58 30.4 29.0 43.6



#54

cis-1,3-Dichloropropene

Concen: 5.795 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063566.D

Acq: 23 Sep 2020 5:40

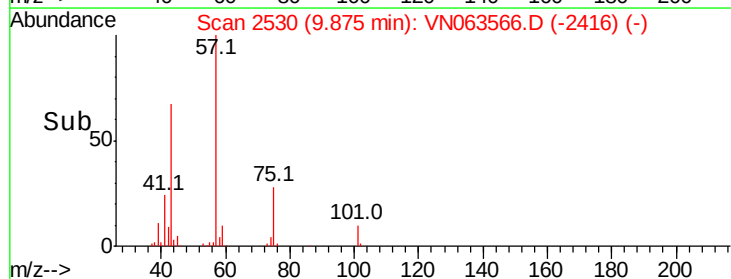
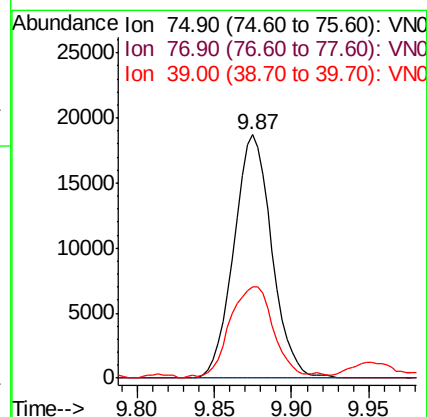
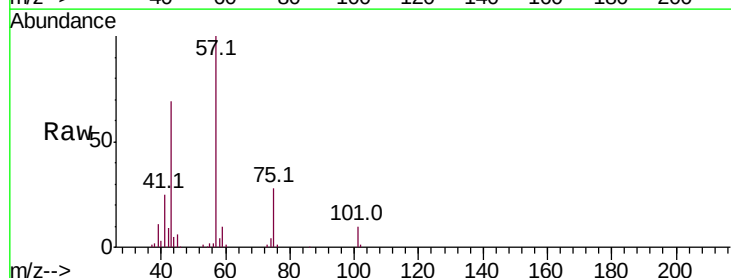
Tgt Ion: 75 Resp: 31797

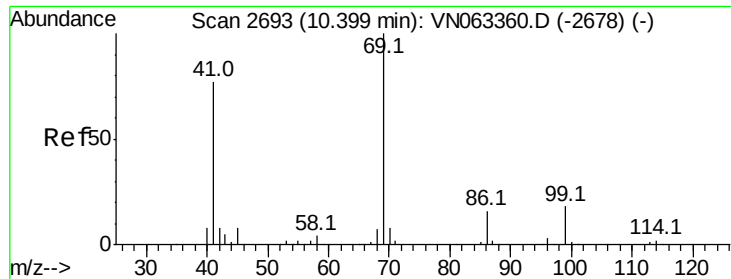
Ion Ratio Lower Upper

75 100

77 0.0 24.6 37.0#

39 36.6 49.8 74.8#





#56

Ethyl methacrylate

Concen: 0.328 ug/l

RT: 10.52 min Scan# 2730

Delta R.T. 0.12 min

Lab File: VN063566.D

Acq: 23 Sep 2020 5:40

Instrument :

MSVOA_N

ClientSampleId :

PB131772ZHE#04

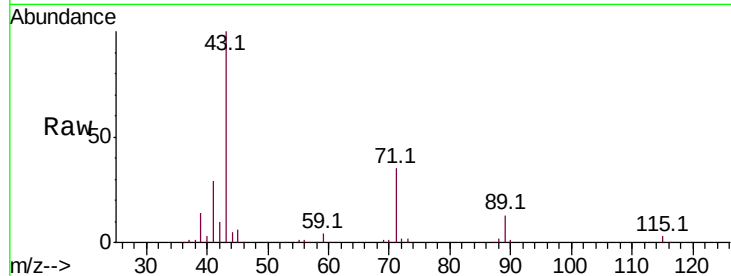
Tot Ion: 69 Resp: 1532

Ion Ratio Lower Upper

69 100

41 5268.1 61.0 91.6#

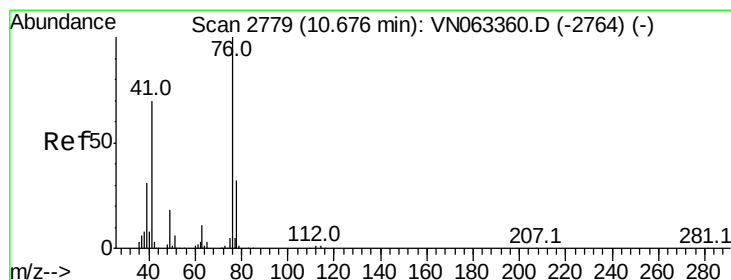
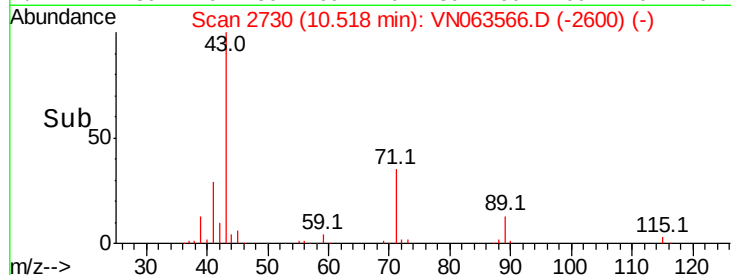
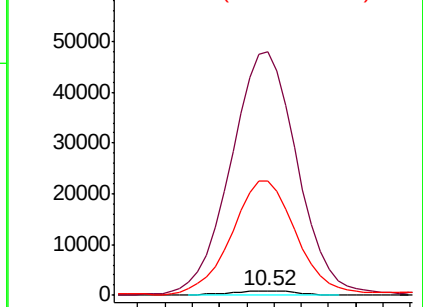
39 2403.0 39.2 58.8#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.140 ug/l

RT: 10.74 min Scan# 2799

Delta R.T. 0.06 min

Lab File: VN063566.D

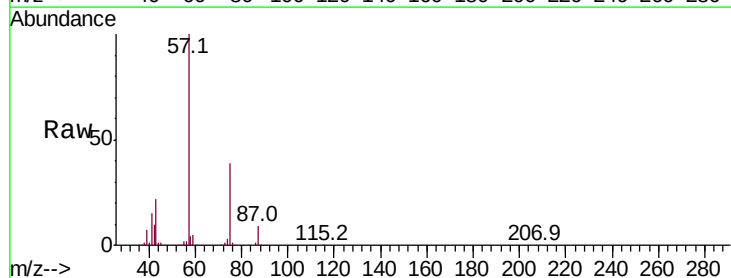
Acq: 23 Sep 2020 5:40

Tgt Ion: 76 Resp: 6149

Ion Ratio Lower Upper

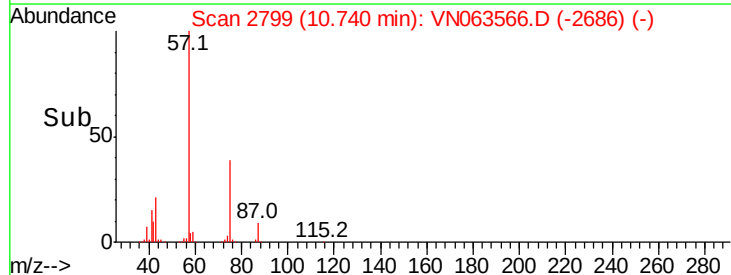
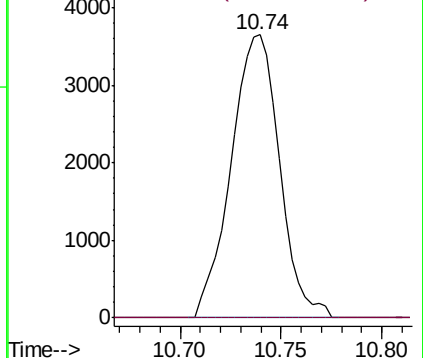
76 100

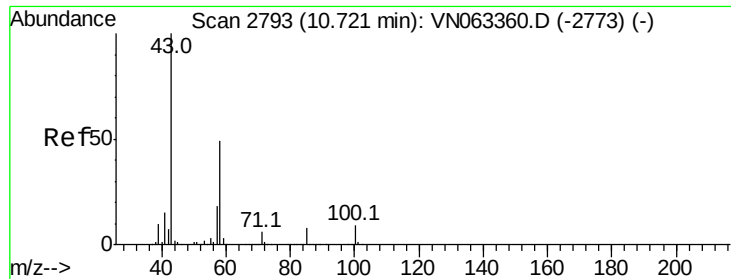
78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0





#59

2-Hexanone

Concen: 28.271 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063566.D

Acq: 23 Sep 2020 5:40

Instrument :

MSVOA_N

ClientSampleId :

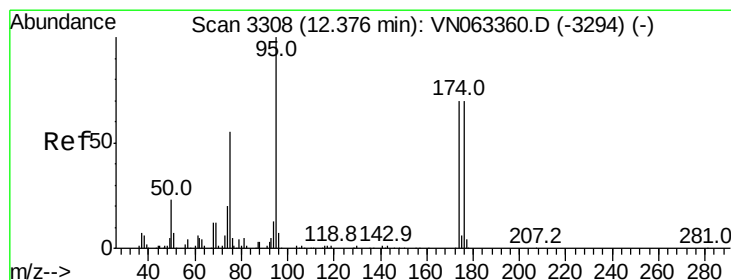
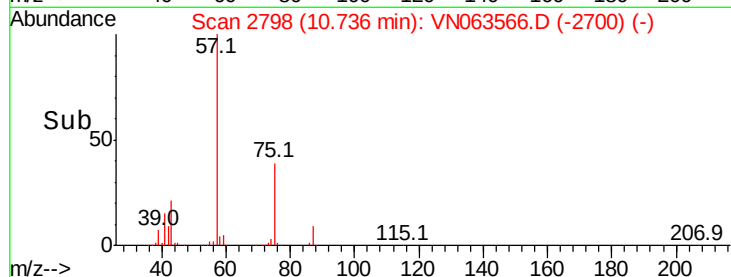
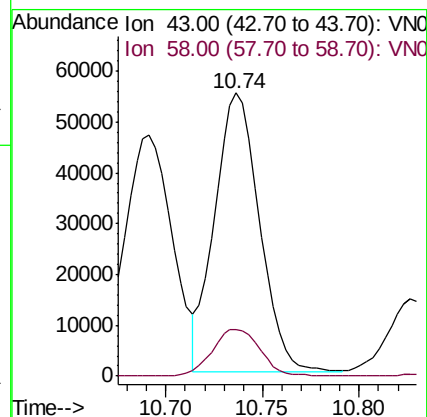
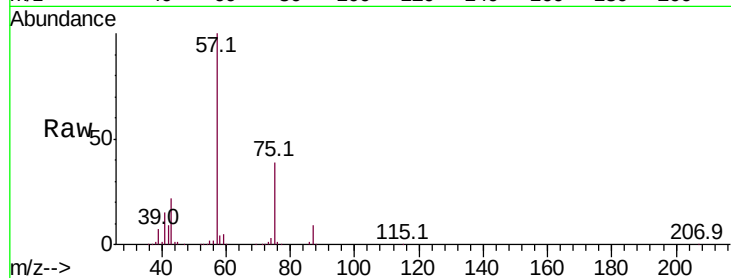
PB131772ZHE#04

Tot Ion: 43 Resp: 88316

Ion Ratio Lower Upper

43 100

58 18.1 24.7 74.1#



#62

4-Bromofluorobenzene

Concen: 53.043 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063566.D

Acq: 23 Sep 2020 5:40

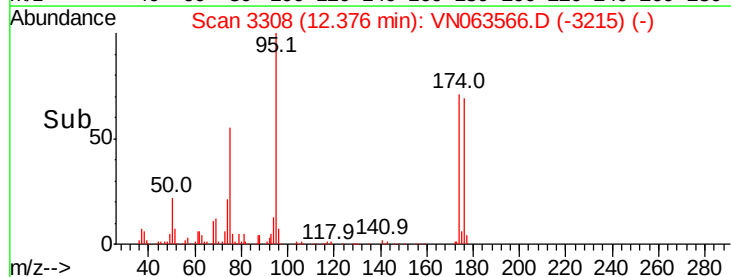
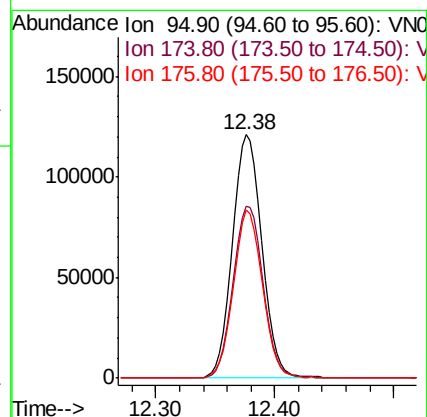
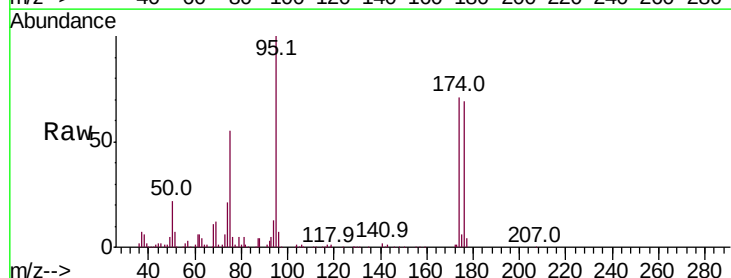
Tgt Ion: 95 Resp: 208521

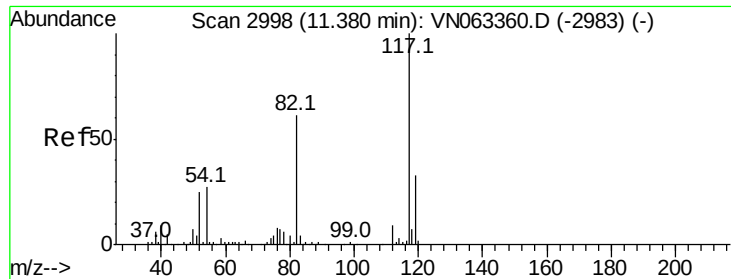
Ion Ratio Lower Upper

95 100

174 71.7 0.0 140.8

176 67.6 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: VN063566.D

Acq: 23 Sep 2020 5:40

Instrument :

MSVOA_N

ClientSampleId :

PB131772ZHE#04

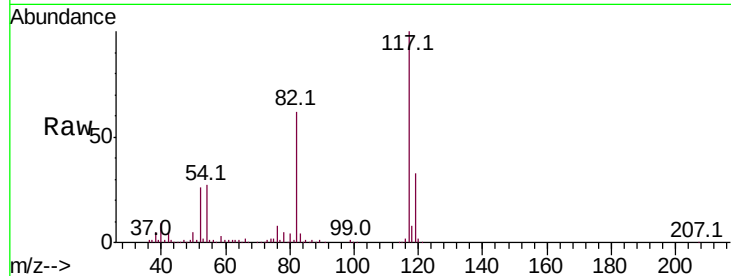
Tot Ion:117 Resp: 411560

Ion Ratio Lower Upper

117 100

82 62.4 49.2 73.8

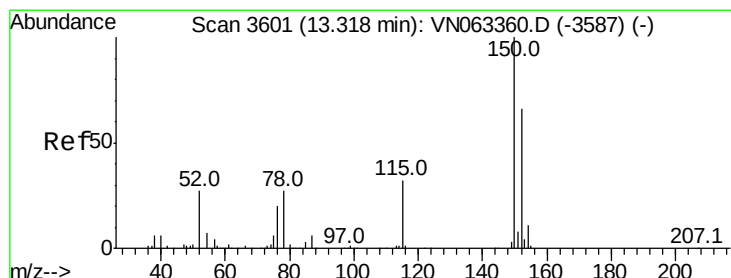
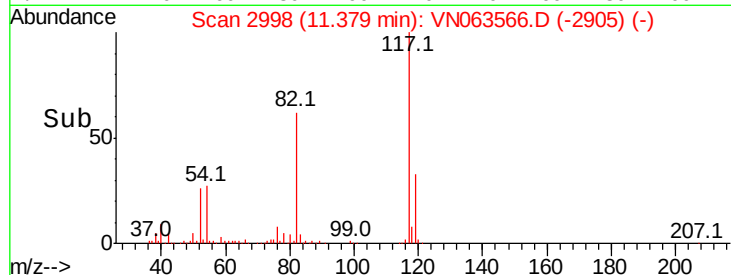
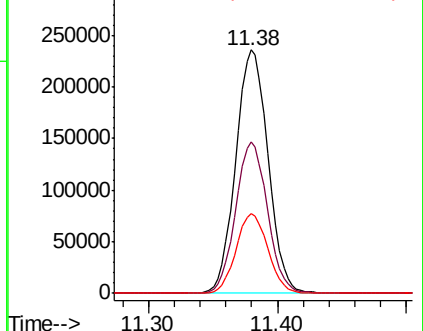
119 32.8 26.2 39.4



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: VN063566.D

Acq: 23 Sep 2020 5:40

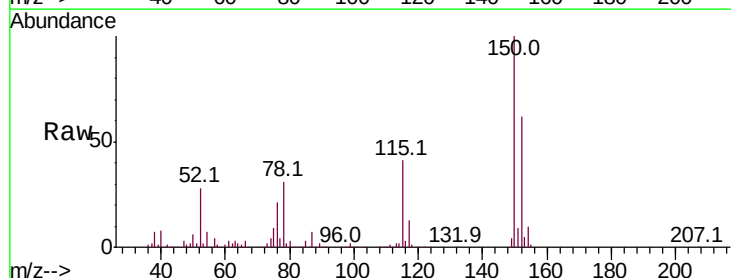
Tgt Ion:152 Resp: 170667

Ion Ratio Lower Upper

152 100

115 64.9 32.2 96.6

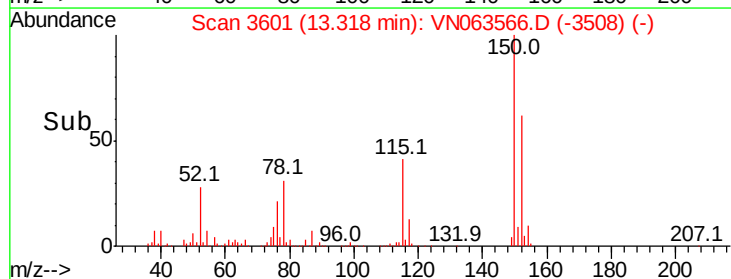
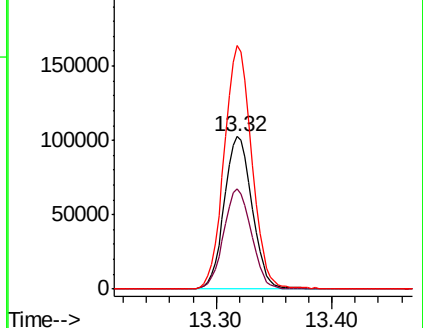
150 157.3 0.0 343.4

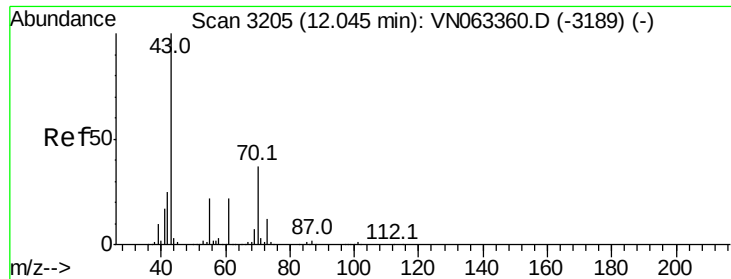


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.817 ug/l

RT: 12.01 min Scan# 3194

Delta R.T. -0.04 min

Lab File: VN063566.D

Acq: 23 Sep 2020 5:40

Instrument :

MSVOA_N

ClientSampleId :

PB131772ZHE#04

Tot Ion: 43 Resp: 5292

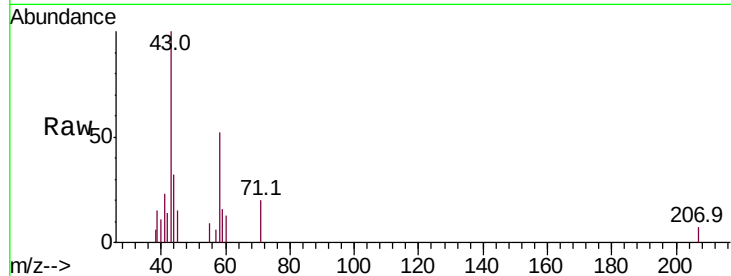
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 5.9 17.7 26.5#

61 0.0 17.4 26.2#

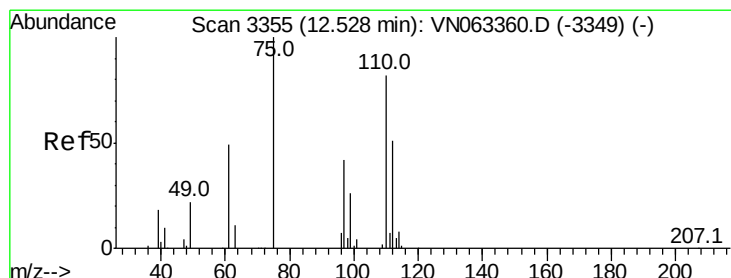
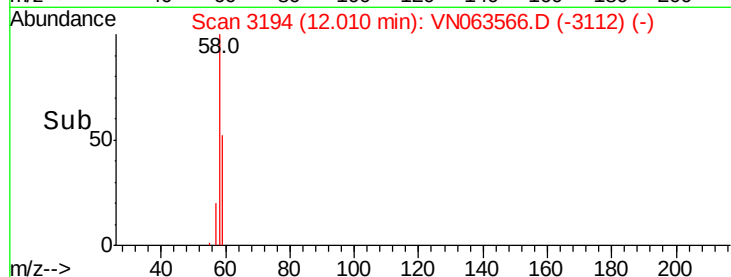
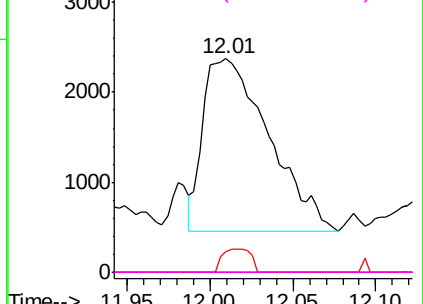


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO



#76

1,2,3-Trichloropropane

Concen: 26.849 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063566.D

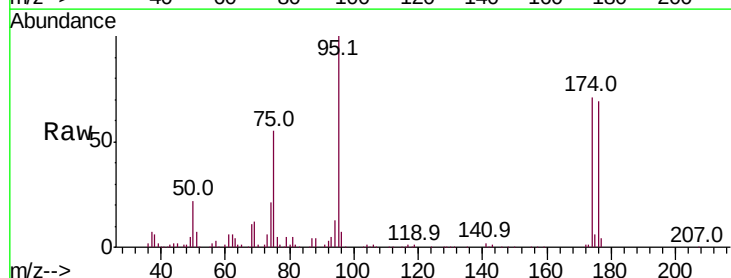
Acq: 23 Sep 2020 5:40

Tgt Ion: 75 Resp: 113416

Ion Ratio Lower Upper

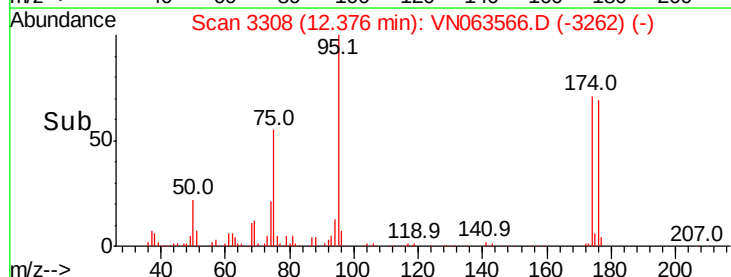
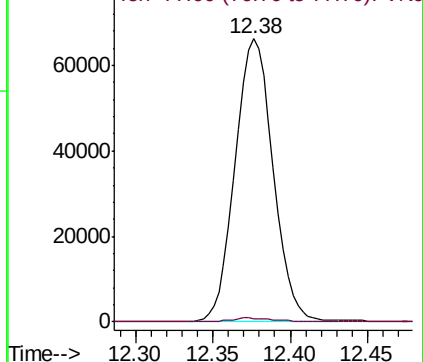
75 100

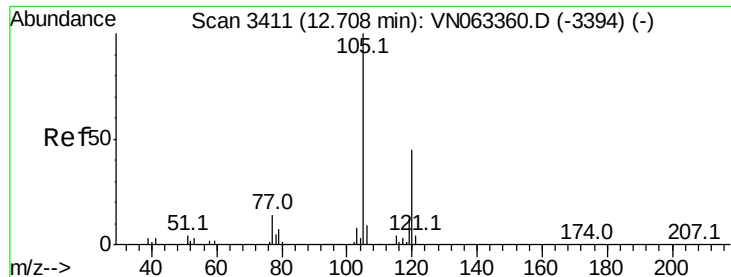
77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO





#80

1,3,5-Trimethylbenzene

Concen: 0.393 ug/l

RT: 12.71 min Scan# 3412

Delta R.T. 0.00 min

Lab File: VN063566.D

Acq: 23 Sep 2020 5:40

Instrument :

MSVOA_N

ClientSampleId :

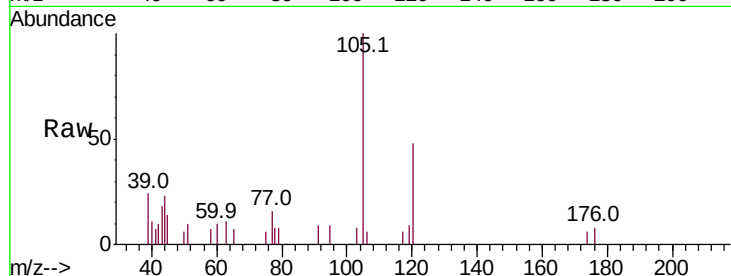
PB131772ZHE#04

Tot Ion:105 Resp: 4478

Ion Ratio Lower Upper

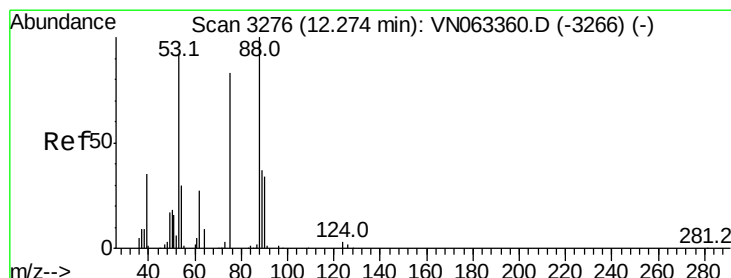
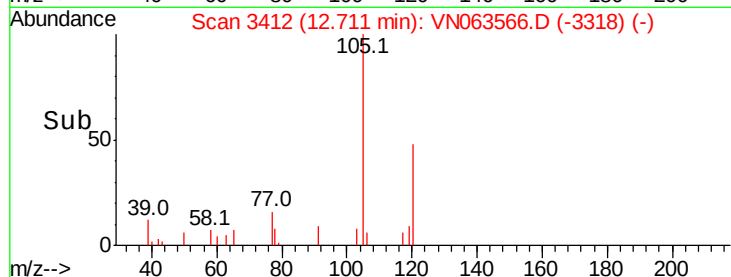
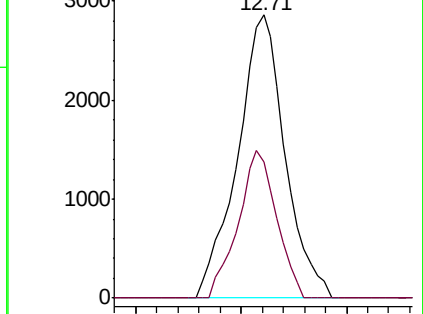
105 100

120 42.0 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: 73.609 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063566.D

Acq: 23 Sep 2020 5:40

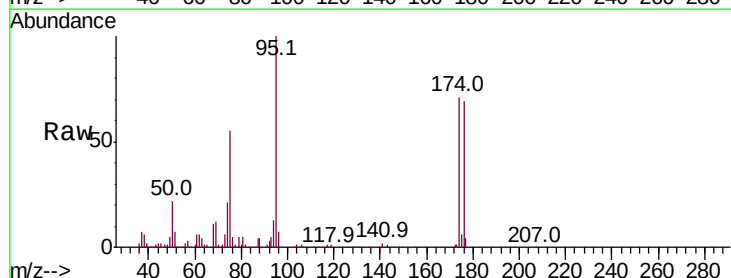
Tgt Ion: 75 Resp: 113416

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

