

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091620\
 Data File : VN063390.D
 Acq On : 17 Sep 2020 2:16
 Operator : JC/MD
 Sample : PB131646ZHE#17
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB131646ZHE#17

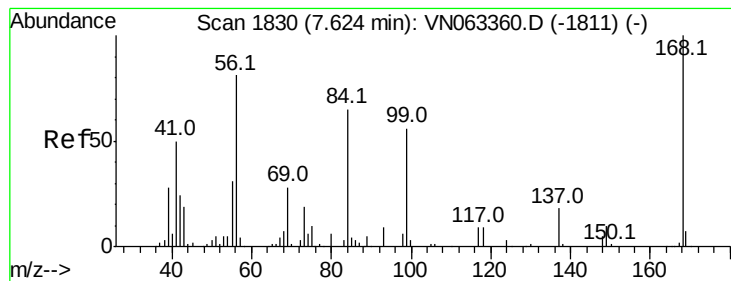
Quant Time: Sep 17 05:12:35 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 16 13:05:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	240684	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	458045	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	450016	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	189628	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	198933	48.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.10%	
35) Dibromofluoromethane	7.55	113	144532	45.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.16%	
50) Toluene-d8	10.06	98	586656	49.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.40%	
62) 4-Bromofluorobenzene	12.38	95	231052	52.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.72%	

Target Compounds					Qvalue	
16) Acetone	3.78	43	12877	9.780	ug/l	96
18) Methyl Acetate	4.29	43	4231	1.266	ug/l #	75
20) Methylene Chloride	4.51	84	13324	3.994	ug/l	95
25) 2-Butanone	6.80	43	2727	1.347	ug/l	93
29) Tetrahydrofuran	7.16	42	697	0.504	ug/l	97
31) Cyclohexane	7.62	56	6815	1.204	ug/l #	7
36) 1,1-Dichloropropene	7.62	75	23262	4.767	ug/l #	47
38) Carbon Tetrachloride	7.62	117	28935	5.809	ug/l #	18
43) Isopropyl Acetate	8.13	43	88830	10.373	ug/l	99
45) 1,2-Dichloropropane	9.23	63	1985	0.523	ug/l #	43
48) Methyl methacrylate	9.15	41	4700	1.117	ug/l #	15
49) 1,4-Dioxane	9.17	88	67	1.110	ug/l #	1
51) 4-Methyl-2-Pentanone	9.96	43	7303	1.523	ug/l	89
54) cis-1,3-Dichloropropene	9.87	75	37483	6.145	ug/l #	61
56) Ethyl methacrylate	10.51	69	1132	0.218	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	5730	0.955	ug/l #	42
59) 2-Hexanone	10.74	43	102045	29.379	ug/l #	53
71) Bromoform	12.38	173	1164	0.446	ug/l #	1
74) N-amyl acetate	12.01	43	3724	0.518	ug/l #	48
76) 1,2,3-Trichloropropane	12.38	75	129620	27.617	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	10710	0.845	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.38	75	129620	75.714	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: VN063390.D

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ClientSampleId :

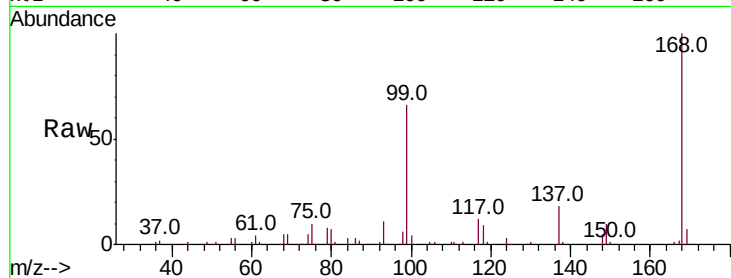
PB131646ZHE#17

Tot Ion:168 Resp: 240684

Ion Ratio Lower Upper

168 100

99 66.0 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

100000

80000

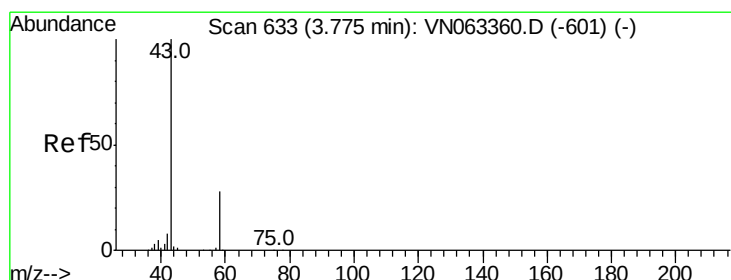
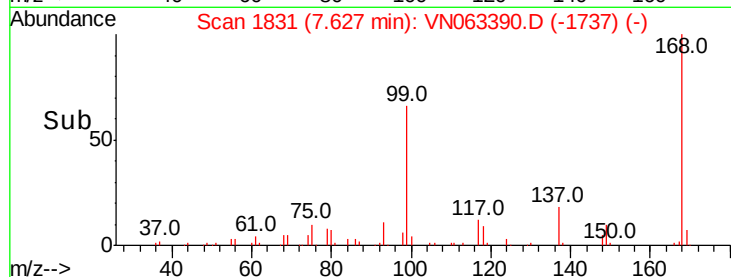
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#16

Acetone

Concen: 9.780 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN063390.D

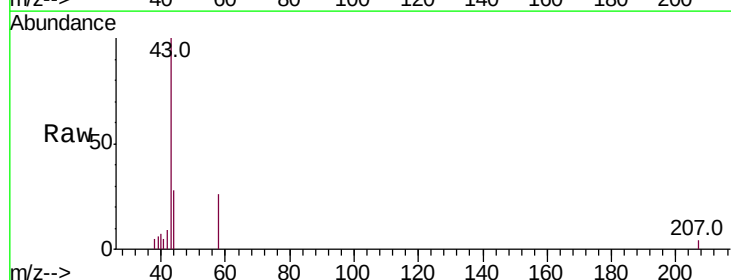
Acq: 17 Sep 2020 2:16

Tgt Ion: 43 Resp: 12877

Ion Ratio Lower Upper

43 100

58 25.9 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.78

5000

4000

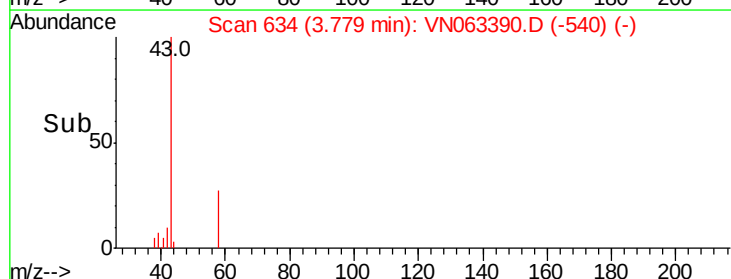
3000

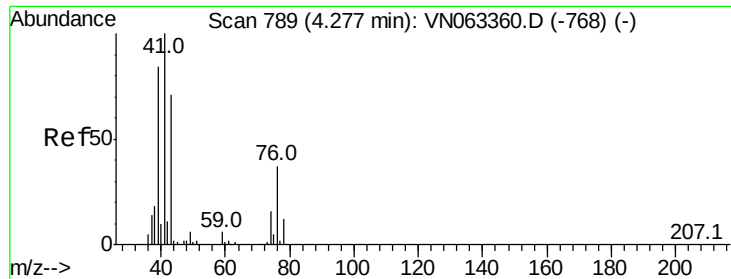
2000

1000

0

Time--> 3.70 3.75 3.80 3.85

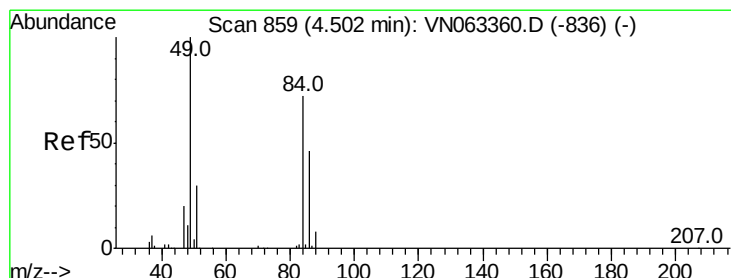
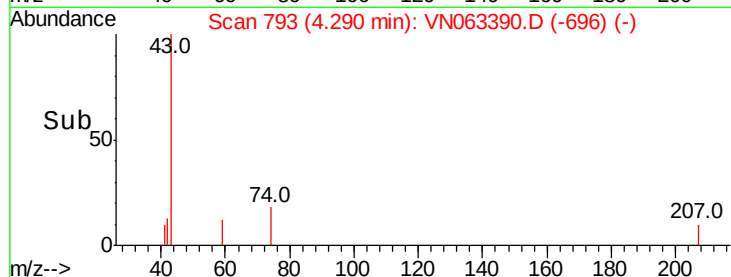
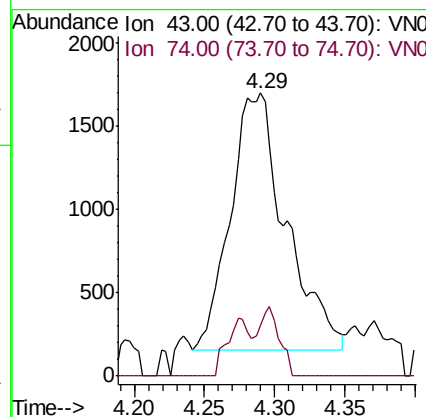
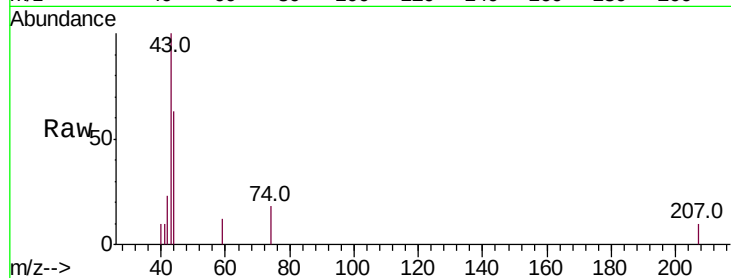




#18
Methvl Acetate
Concen: 1.266 ug/l
RT: 4.29 min Scan# 793
Delta R.T. 0.01 min
Lab File: VN063390.D
Acq: 17 Sep 2020 2:16

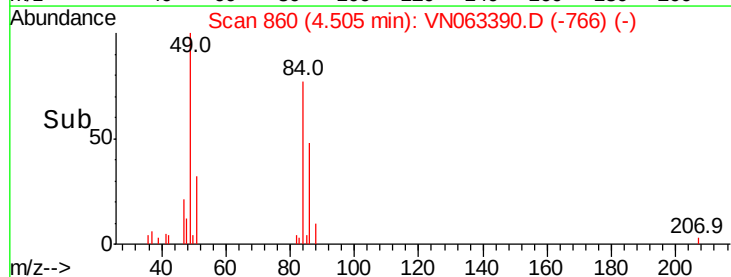
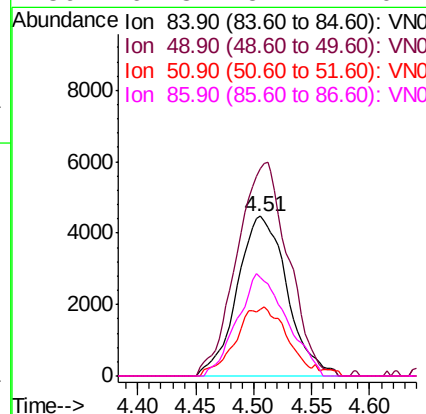
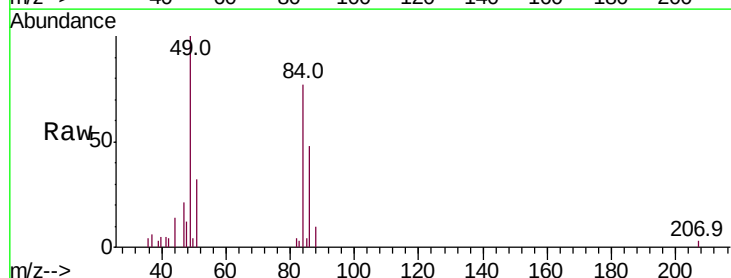
Instrument :
MSVOA_N
ClientSampleId :
PB131646ZHE#17

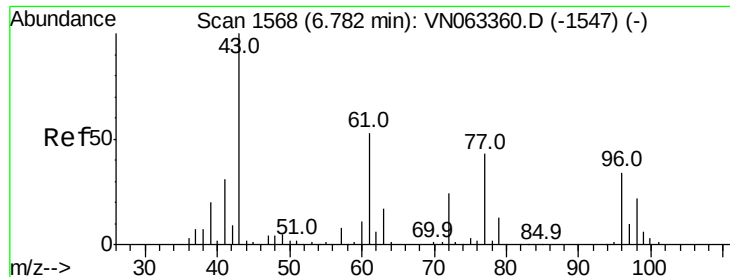
Tot Ion: 43 Resp: 4231
Ion Ratio Lower Upper
43 100
74 10.1 17.4 26.2#



#20
Methylene Chloride
Concen: 3.994 ug/l
RT: 4.51 min Scan# 860
Delta R.T. 0.00 min
Lab File: VN063390.D
Acq: 17 Sep 2020 2:16

Tgt Ion: 84 Resp: 13324
Ion Ratio Lower Upper
84 100
49 129.9 110.7 166.1
51 41.8 32.9 49.3
86 61.8 51.1 76.7





#25

2-Butanone

Concen: 1.347 ug/l

RT: 6.80 min Scan# 1573

Delta R.T. 0.02 min

Lab File: VN063390.D

Acq: 17 Sep 2020 2:16

Instrument :

MSVOA_N

ClientSampleId :

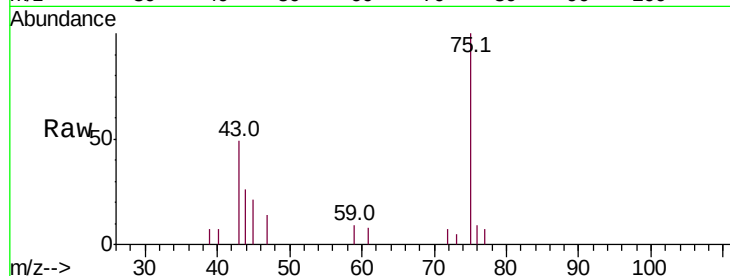
PB131646ZHE#17

Tot Ion: 43 Resp: 2727

Ion Ratio Lower Upper

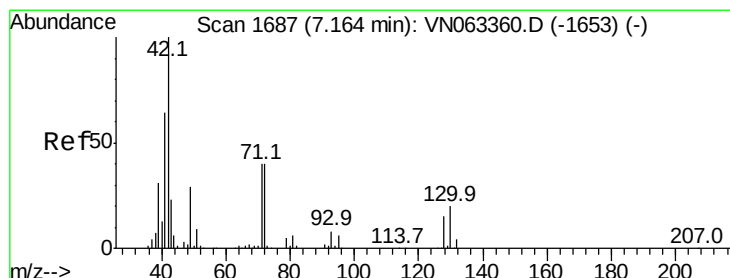
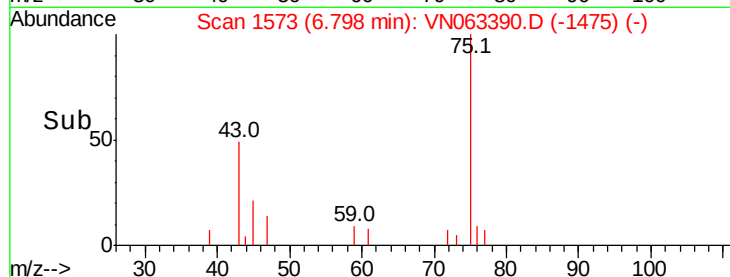
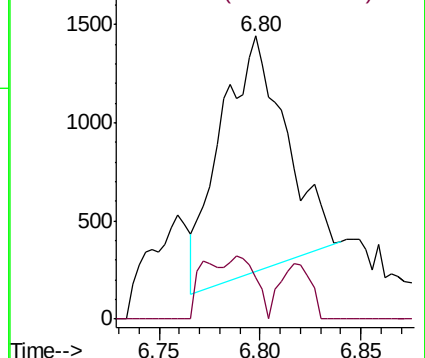
43 100

72 20.4 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#29

Tetrahydrofuran

Concen: 0.504 ug/l

RT: 7.16 min Scan# 1687

Delta R.T. -0.00 min

Lab File: VN063390.D

Acq: 17 Sep 2020 2:16

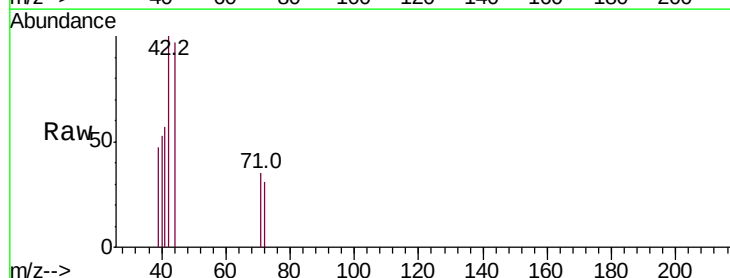
Tgt Ion: 42 Resp: 697

Ion Ratio Lower Upper

42 100

72 43.6 32.1 48.1

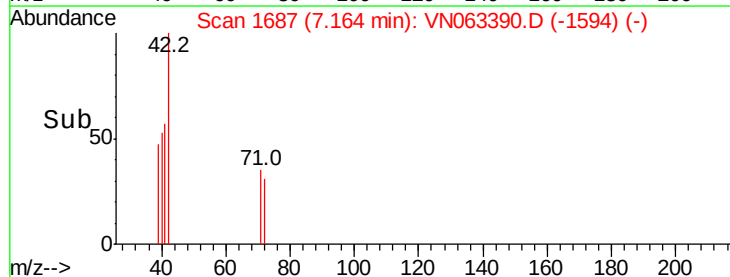
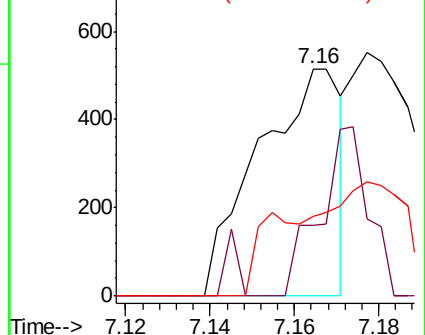
71 38.5 31.2 46.8

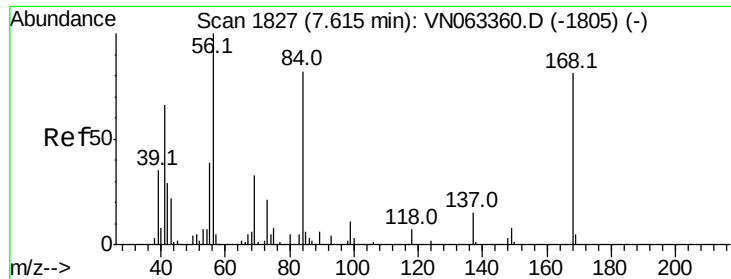


Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

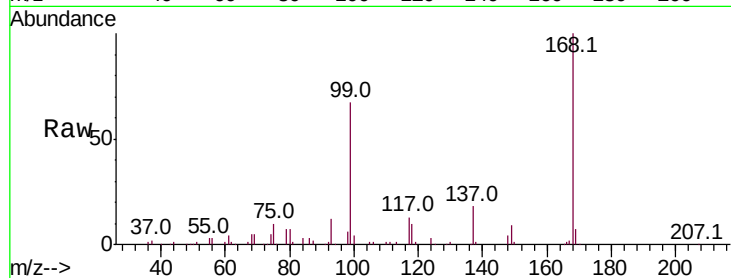




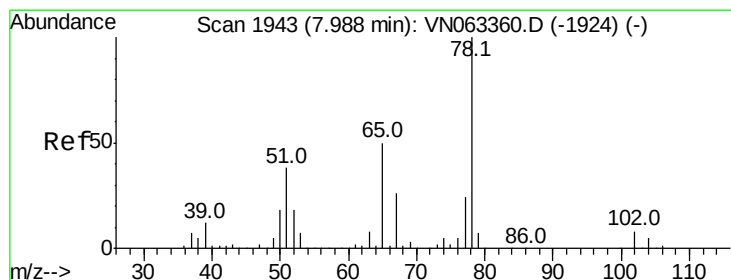
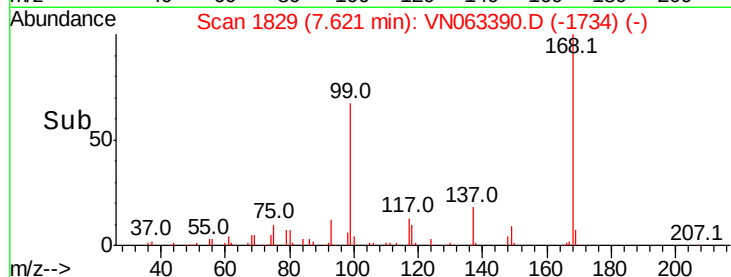
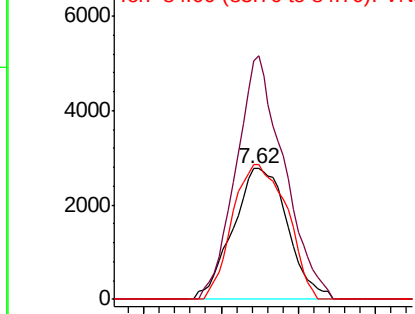
#31
Cyclohexane
Concen: 1.204 ug/l
RT: 7.62 min Scan# 1829
Delta R.T. 0.01 min
Lab File: VN063390.D
Acq: 17 Sep 2020 2:16

Instrument :
MSVOA_N
ClientSampled :
PB131646ZHE#17

Tot Ion: 56 Resp: 6815
Ion Ratio Lower Upper
56 100
69 182.6 26.1 39.1#
84 103.3 65.4 98.2#

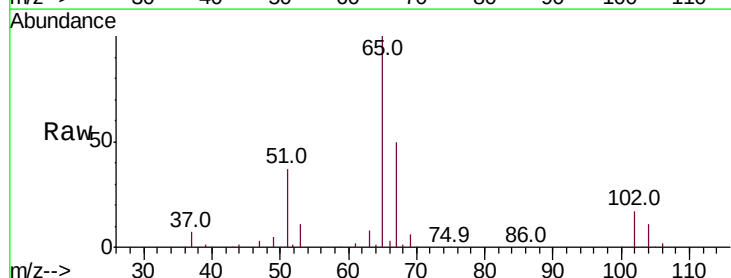


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

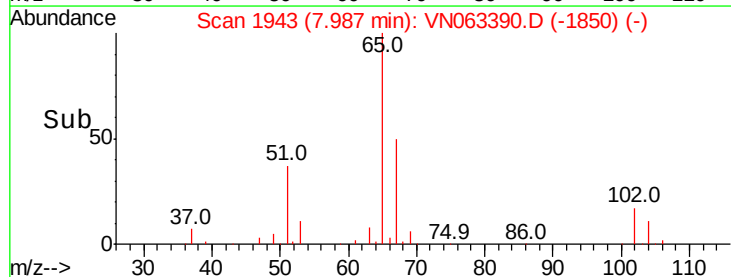
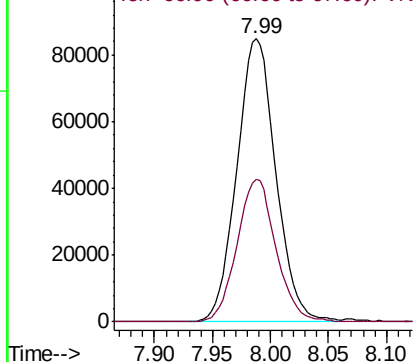


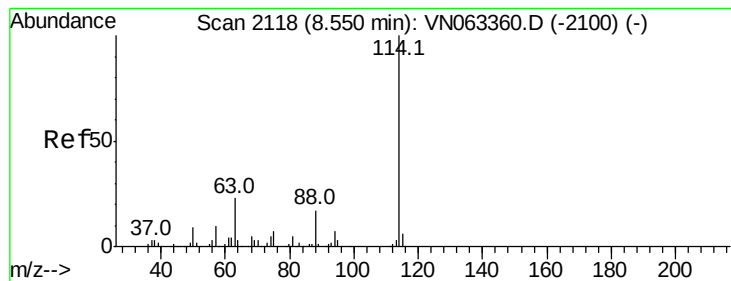
#33
1,2-Dichloroethane-d4
Concen: 48.555 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. -0.00 min
Lab File: VN063390.D
Acq: 17 Sep 2020 2:16

Tgt Ion: 65 Resp: 198933
Ion Ratio Lower Upper
65 100
67 50.3 0.0 104.2



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN063390.D

Acq: 17 Sep 2020 2:16

Instrument :

MSVOA_N

ClientSampleId :

PB131646ZHE#17

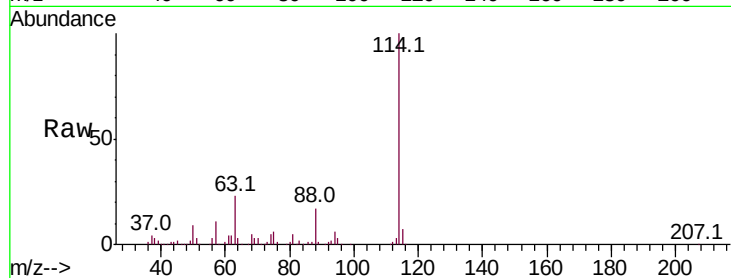
Tot Ion:114 Resp: 458045

Ion Ratio Lower Upper

114 100

63 23.1 0.0 46.4

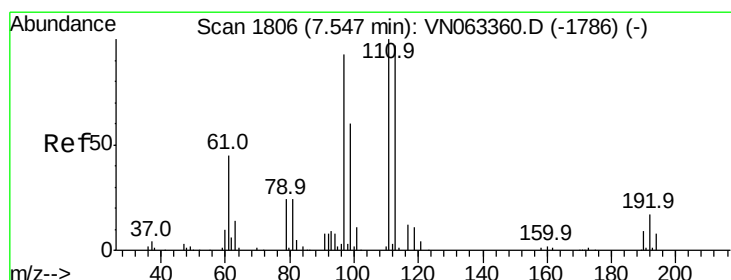
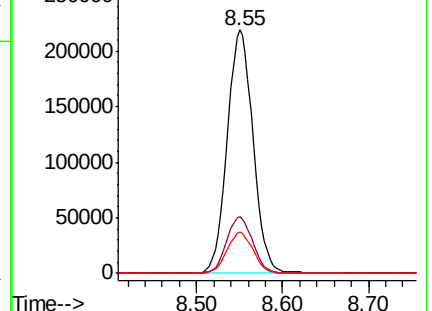
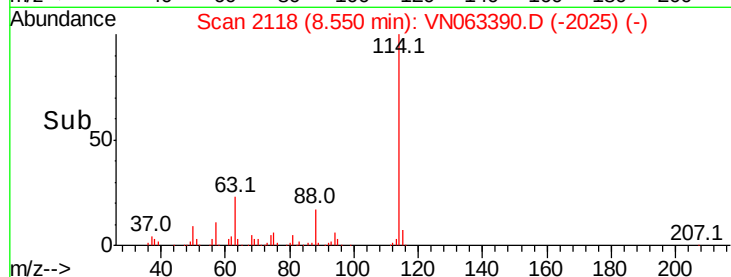
88 16.8 0.0 33.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 45.580 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063390.D

Acq: 17 Sep 2020 2:16

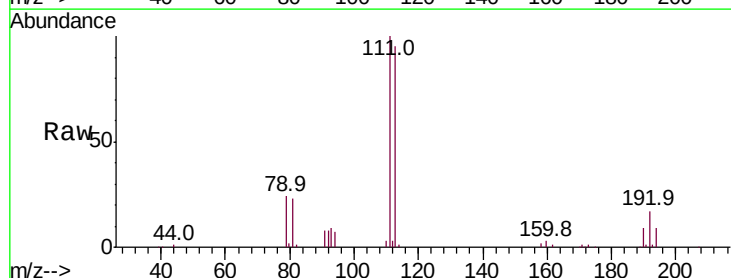
Tgt Ion:113 Resp: 144532

Ion Ratio Lower Upper

113 100

111 103.8 82.9 124.3

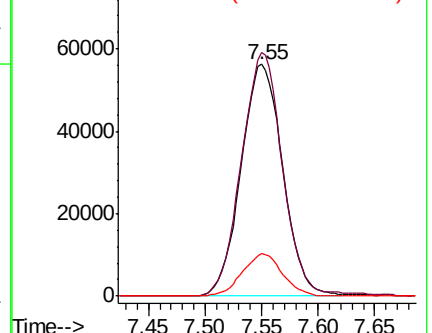
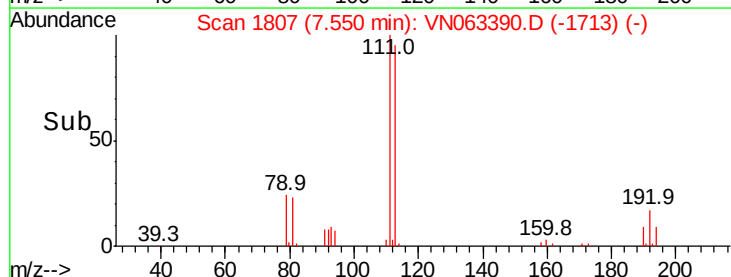
192 17.8 13.9 20.9

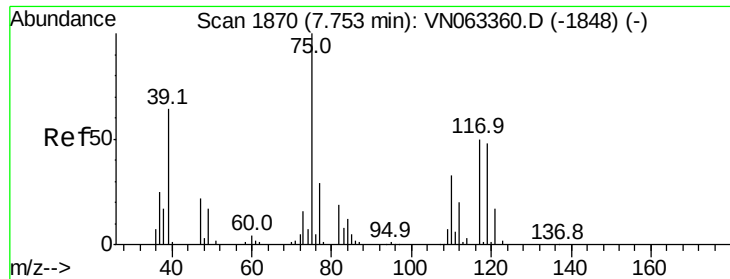


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.767 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.13 min

Lab File: VN063390.D

Acq: 17 Sep 2020 2:16

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PB131646ZHE#17

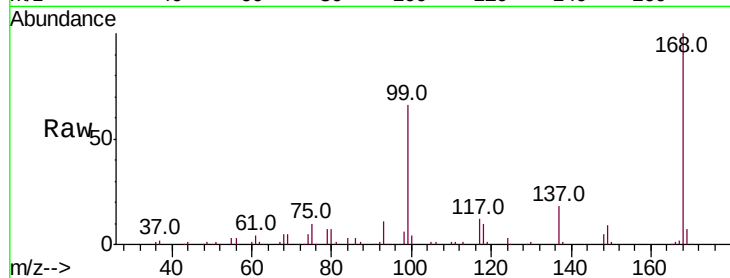
Tot Ion: 75 Resp: 23262

Ion Ratio Lower Upper

75 100

110 4.3 16.5 49.5#

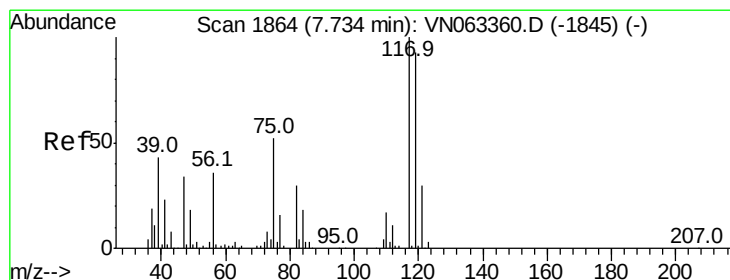
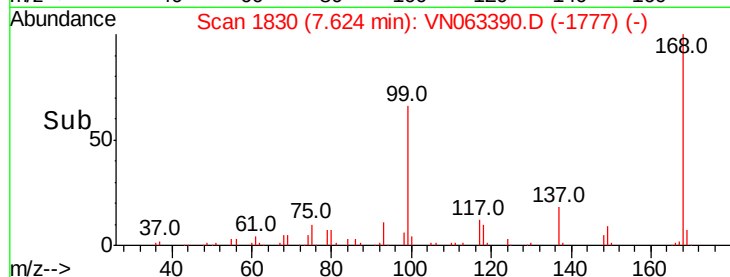
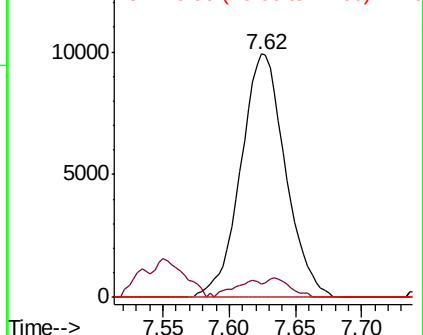
77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VN063360.D (-1848) (-)

Ion 109.90 (109.60 to 110.60): VN063360.D (-1848) (-)

Ion 76.90 (76.60 to 77.60): VN063360.D (-1848) (-)



#38

Carbon Tetrachloride

Concen: 5.809 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN063390.D

Acq: 17 Sep 2020 2:16

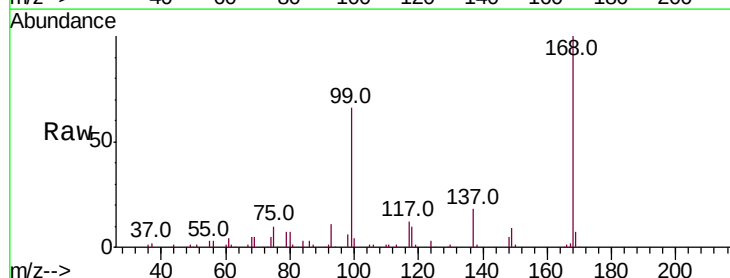
Tgt Ion: 117 Resp: 28935

Ion Ratio Lower Upper

117 100

119 6.2 74.5 111.7#

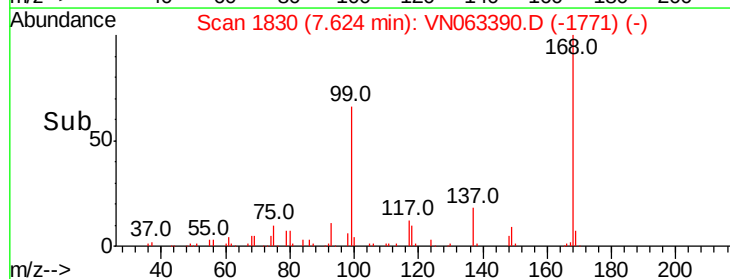
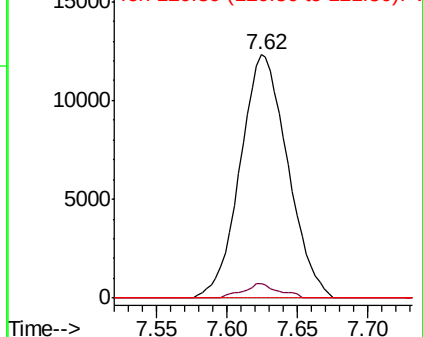
121 0.0 24.1 36.1#

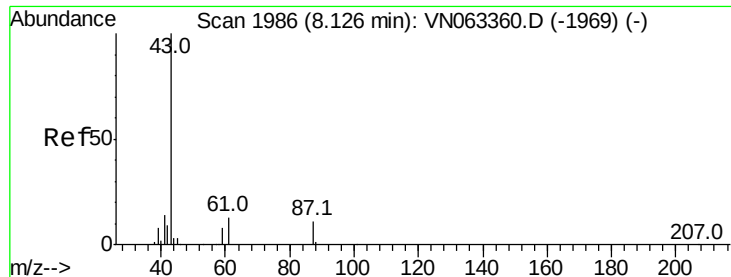


Abundance Ion 116.80 (116.50 to 117.50): VN063360.D (-1845) (-)

Ion 118.80 (118.50 to 119.50): VN063360.D (-1845) (-)

Ion 120.80 (120.50 to 121.50): VN063360.D (-1845) (-)





#43

Isopropyl Acetate

Concen: 10.373 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VN063390.D

Acq: 17 Sep 2020 2:16

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ClientSampleId :

PB131646ZHE#17

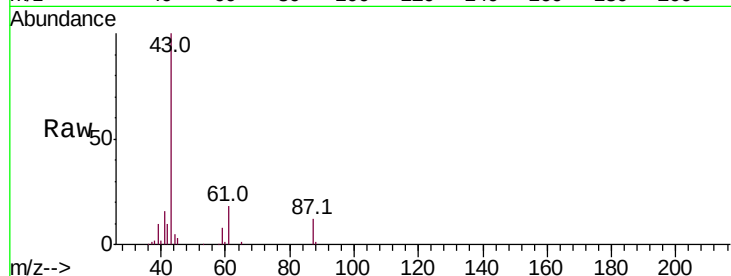
Tot Ion: 43 Resp: 88830

Ion Ratio Lower Upper

43 100

61 18.1 14.2 21.2

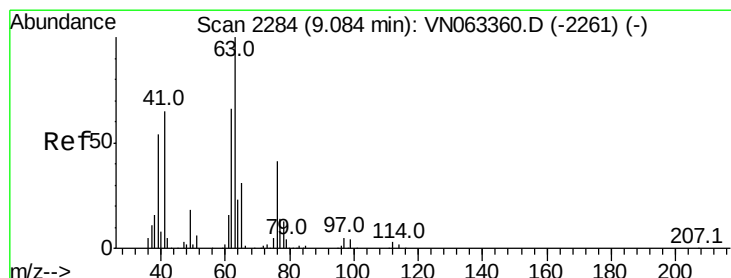
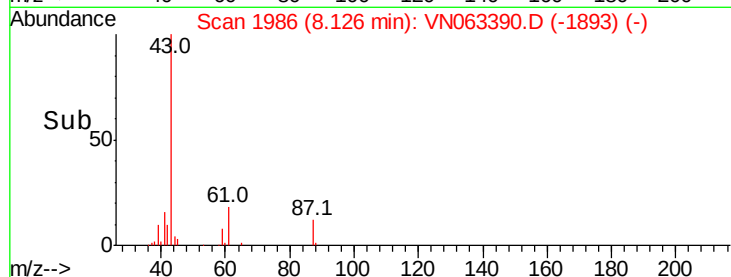
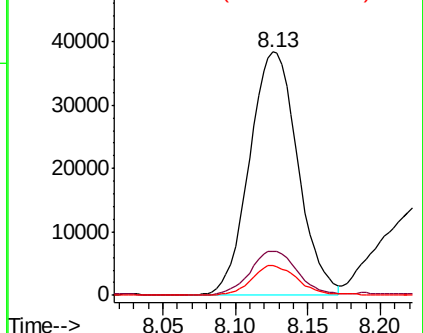
87 11.6 9.0 13.6



Abundance Ion 43.00 (42.70 to 43.70): VN063360.D (-1969) (-)

Ion 61.00 (60.70 to 61.70): VN063360.D (-1969) (-)

Ion 87.00 (86.70 to 87.70): VN063360.D (-1969) (-)



#45

1,2-Dichloropropane

Concen: 0.523 ug/l

RT: 9.23 min Scan# 2330

Delta R.T. 0.15 min

Lab File: VN063390.D

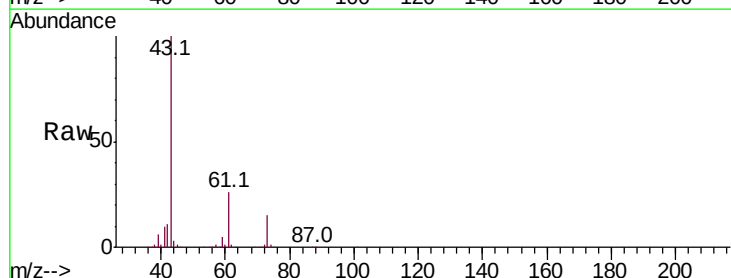
Acq: 17 Sep 2020 2:16

Tgt Ion: 63 Resp: 1985

Ion Ratio Lower Upper

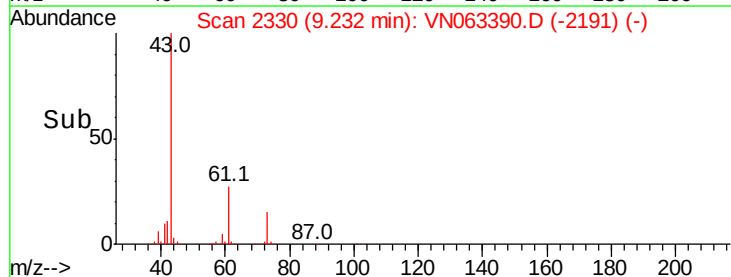
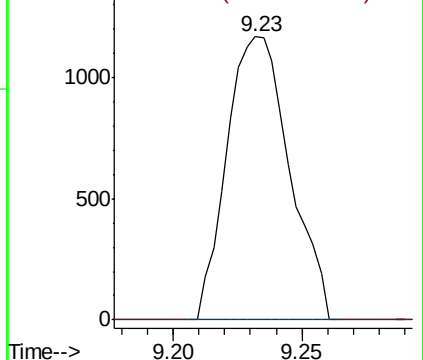
63 100

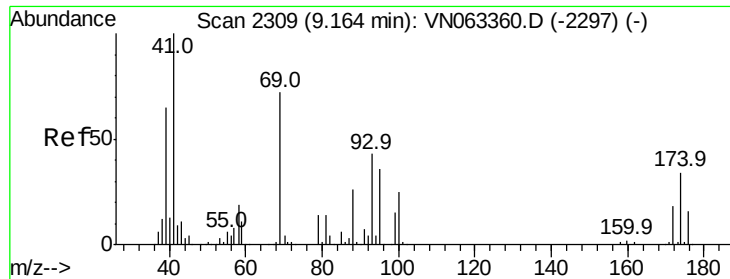
65 0.0 25.0 37.6#



Abundance Ion 62.90 (62.60 to 63.60): VN063360.D (-2261) (-)

Ion 64.90 (64.60 to 65.60): VN063360.D (-2261) (-)

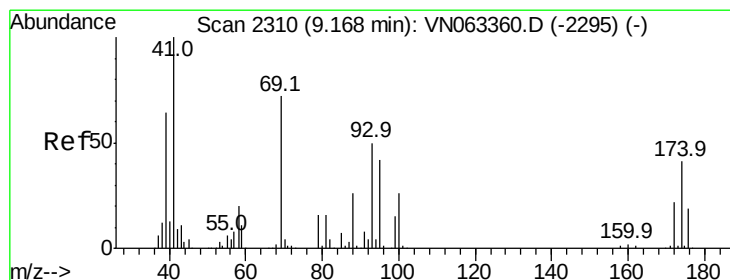
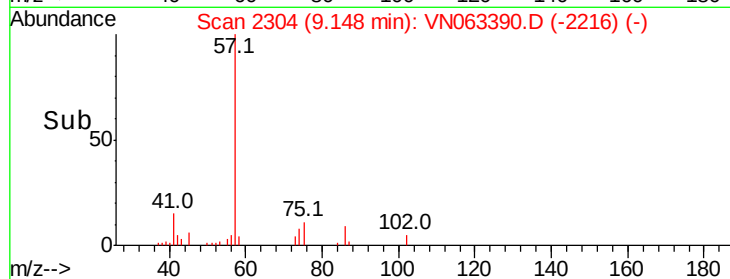
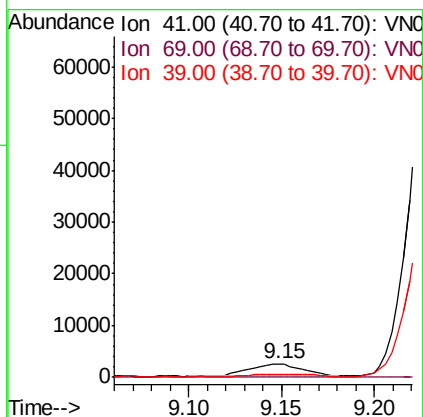
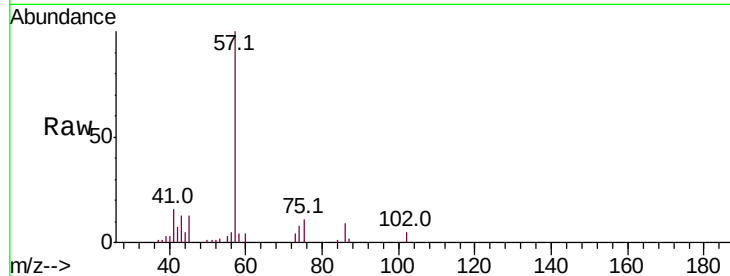




#48
Methvl methacrylate
Concen: 1.117 ug/l
RT: 9.15 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN063390.D
Acq: 17 Sep 2020 2:16

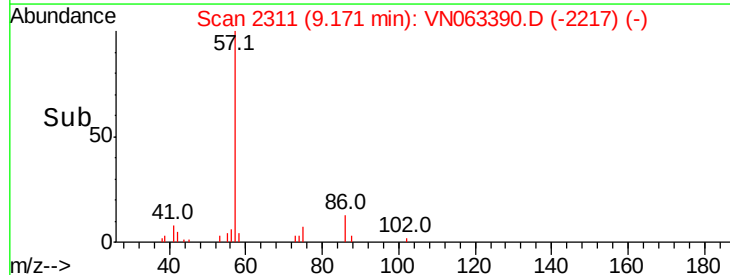
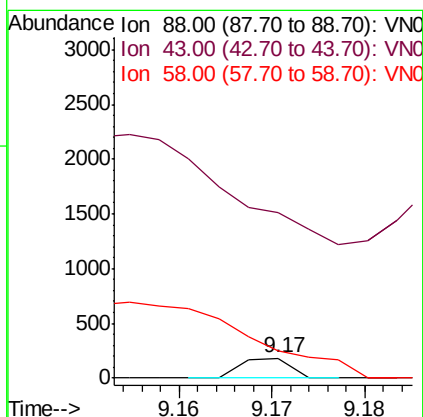
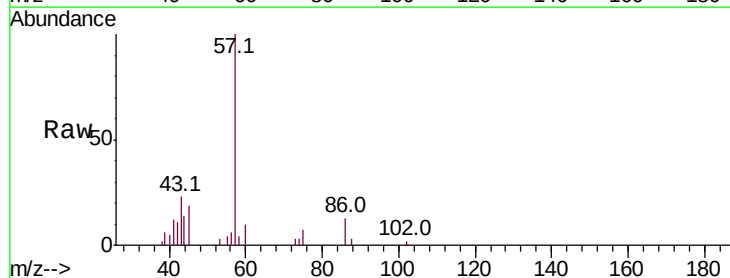
Instrument :
MSVOA_N
ClientSampleId :
PB131646ZHE#17

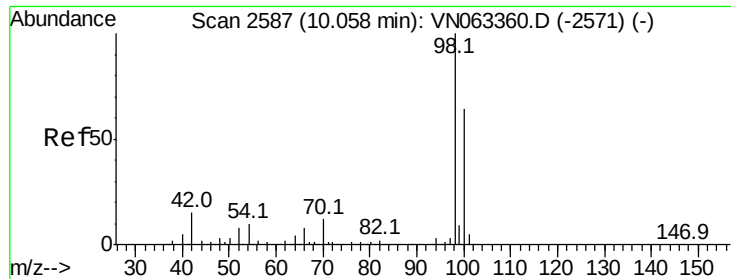
Tot Ion: 41 Resp: 4700
Ion Ratio Lower Upper
41 100
69 0.0 59.3 88.9#
39 0.0 52.9 79.3#



#49
1,4-Dioxane
Concen: 1.110 ug/l
RT: 9.17 min Scan# 2311
Delta R.T. 0.00 min
Lab File: VN063390.D
Acq: 17 Sep 2020 2:16

Tgt Ion: 88 Resp: 67
Ion Ratio Lower Upper
88 100
43 0.0 32.6 49.0#
58 2017.9 60.0 90.0#





#50

Toluene-d8

Concen: 49.202 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN063390.D

Acq: 17 Sep 2020 2:16

Instrument :

MSVOA_N

ClientSampleId :

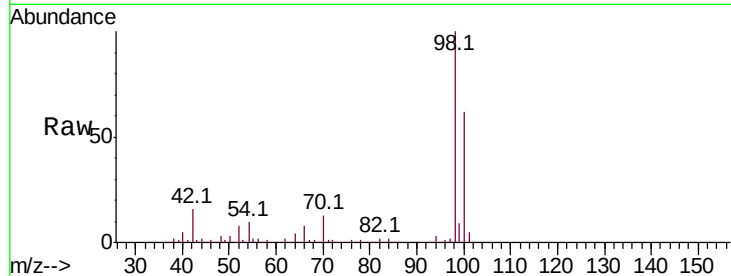
PB131646ZHE#17

Tot Ion: 98 Resp: 586656

Ion Ratio Lower Upper

98 100

100 62.5 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN063360.D (-2571) (-)

Ion 100.00 (99.70 to 100.70): VN063360.D (-2571) (-)

10.06

300000

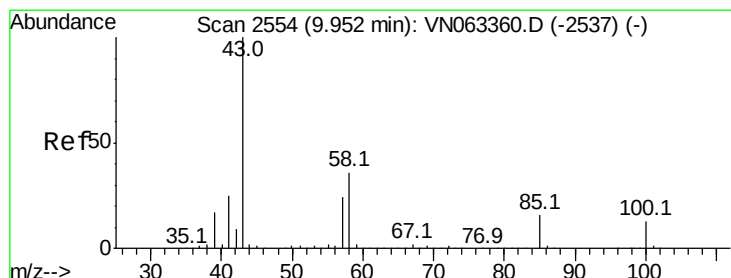
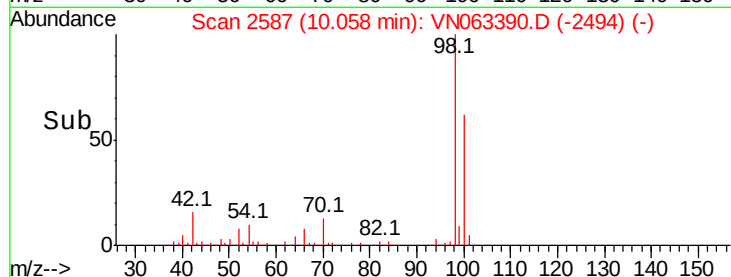
200000

100000

0

10.00 10.05 10.10

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.523 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN063390.D

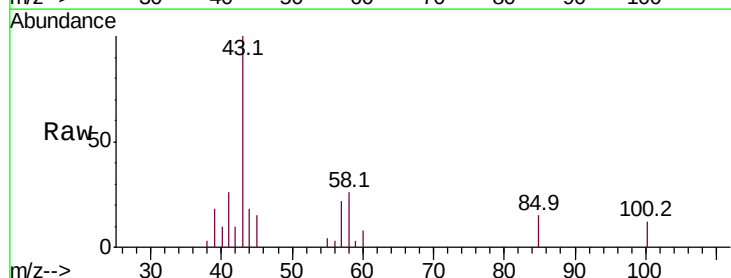
Acq: 17 Sep 2020 2:16

Tgt Ion: 43 Resp: 7303

Ion Ratio Lower Upper

43 100

58 42.7 29.0 43.6



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

Ion 58.00 (57.70 to 58.70): VN063360.D (-2537) (-)

9.96

8000

6000

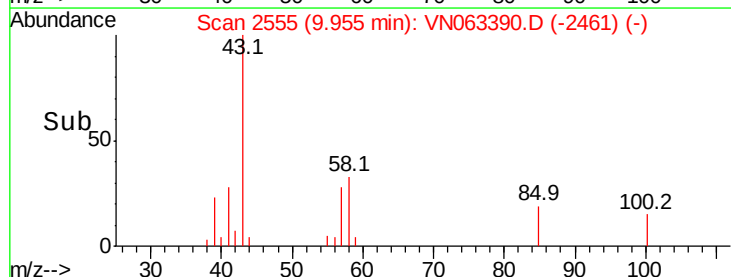
4000

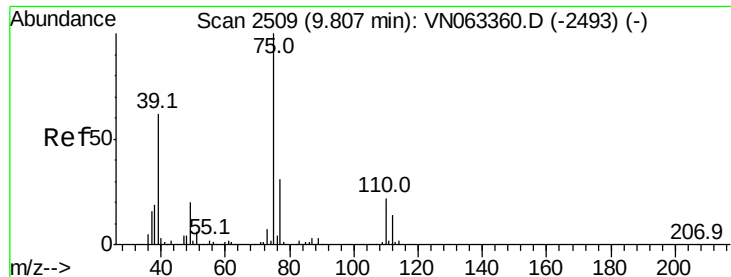
2000

0

9.90 9.95

Time-->





#54

cis-1,3-Dichloropropene

Concen: 6.145 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063390.D

Acq: 17 Sep 2020 2:16

Instrument :

MSVOA_N

ClientSampleId :

PB131646ZHE#17

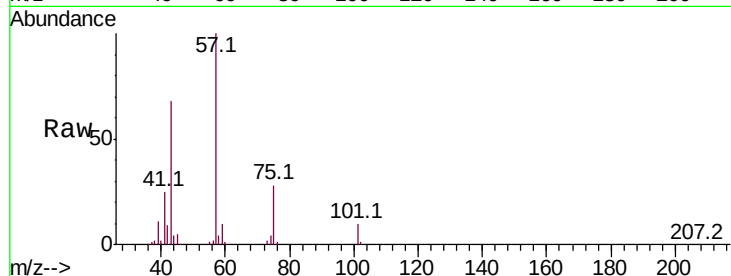
Tot Ion: 75 Resp: 37483

Ion Ratio Lower Upper

75 100

77 0.0 24.6 37.0#

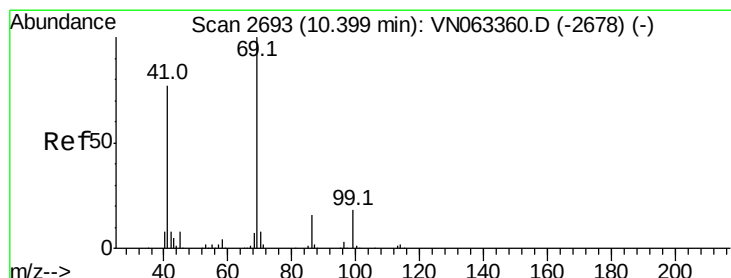
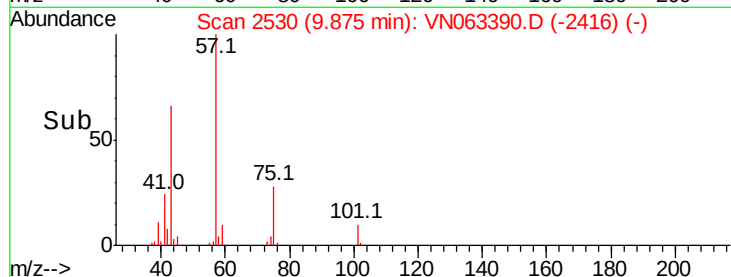
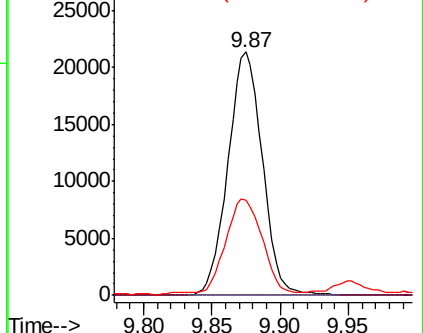
39 38.3 49.8 74.8#



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



#56

Ethyl methacrylate

Concen: 0.218 ug/l

RT: 10.51 min Scan# 2728

Delta R.T. 0.11 min

Lab File: VN063390.D

Acq: 17 Sep 2020 2:16

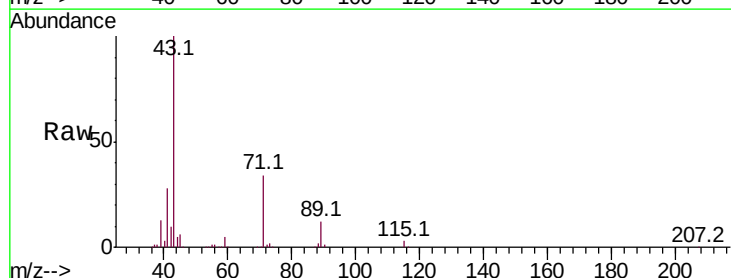
Tgt Ion: 69 Resp: 1132

Ion Ratio Lower Upper

69 100

41 9135.8 61.0 91.6#

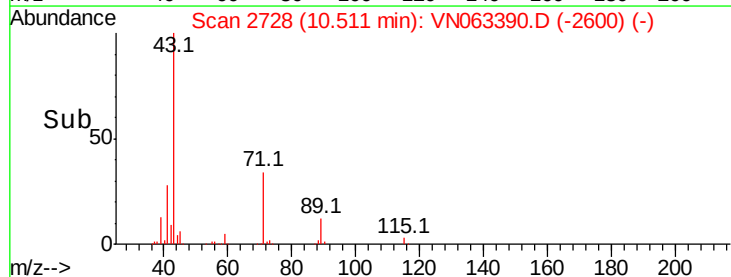
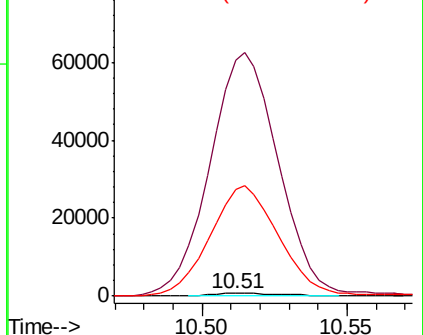
39 4108.7 39.2 58.8#

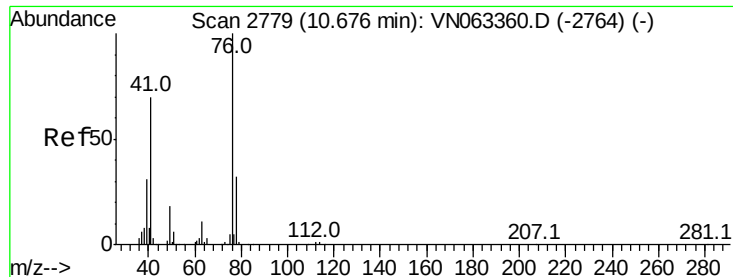


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

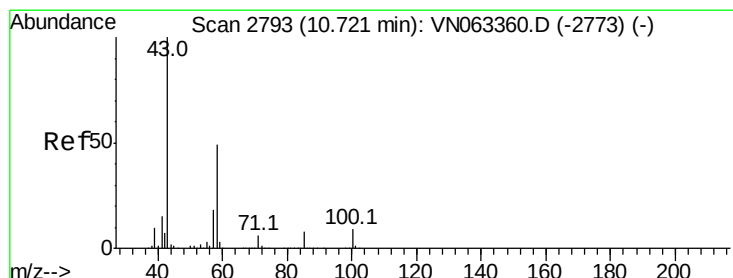
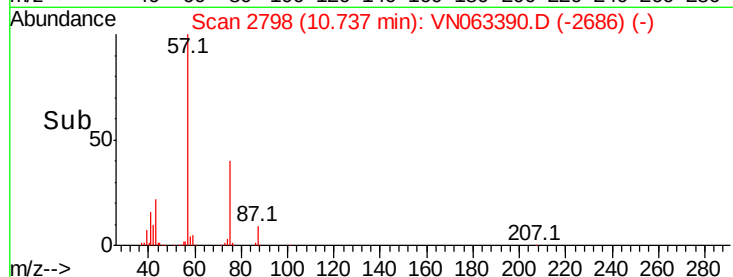
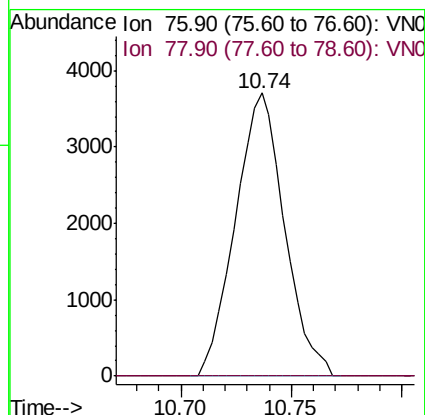
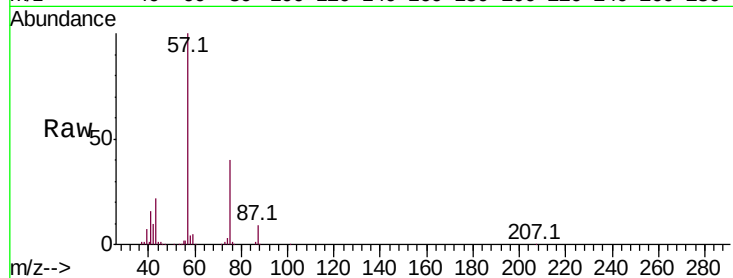




#57
 1,3-Dichloropropane
 Concen: 0.955 ug/l
 RT: 10.74 min Scan# 2798
 Delta R.T. 0.06 min
 Lab File: VN063390.D
 Acq: 17 Sep 2020 2:16

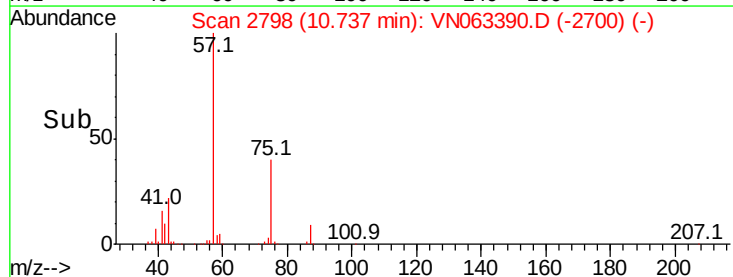
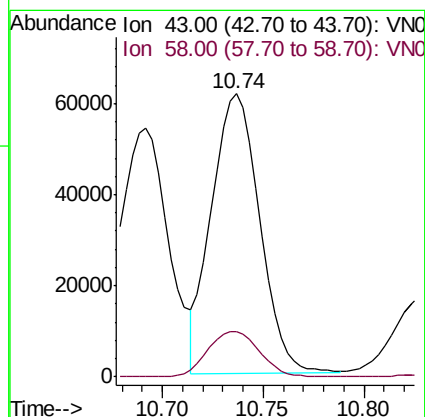
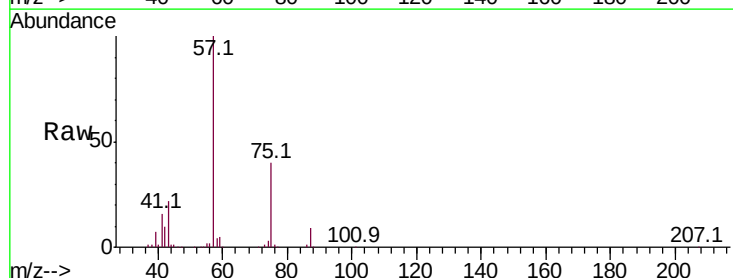
Instrument :
 MSVOA_N
 ClientSampleId :
 PB131646ZHE#17

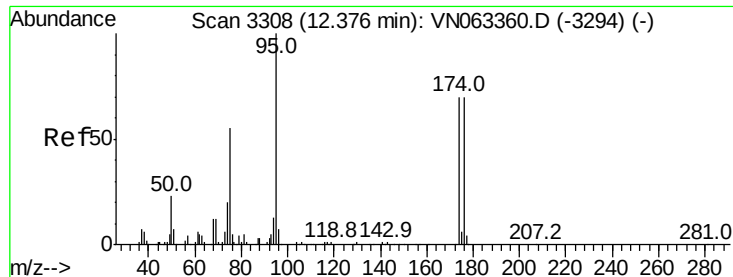
Tot Ion: 76 Resp: 5730
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#



#59
 2-Hexanone
 Concen: 29.379 ug/l
 RT: 10.74 min Scan# 2798
 Delta R.T. 0.02 min
 Lab File: VN063390.D
 Acq: 17 Sep 2020 2:16

Tgt Ion: 43 Resp: 102045
 Ion Ratio Lower Upper
 43 100
 58 17.4 24.7 74.1#





#62

4-Bromofluorobenzene

Concen: 52.862 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063390.D

Acq: 17 Sep 2020 2:16

Instrument :

MSVOA_N

ClientSampleId :

PB131646ZHE#17

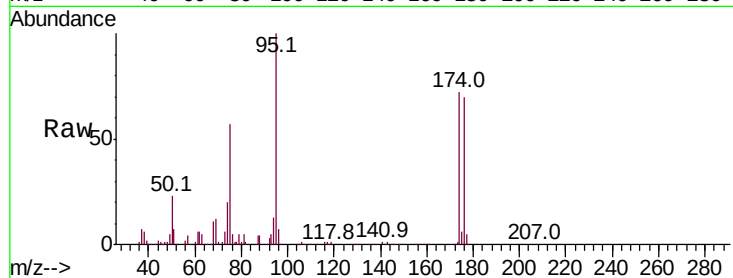
Tot Ion: 95 Resp: 231052

Ion Ratio Lower Upper

95 100

174 71.7 0.0 140.8

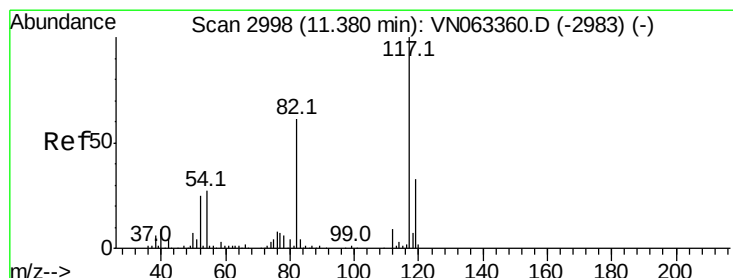
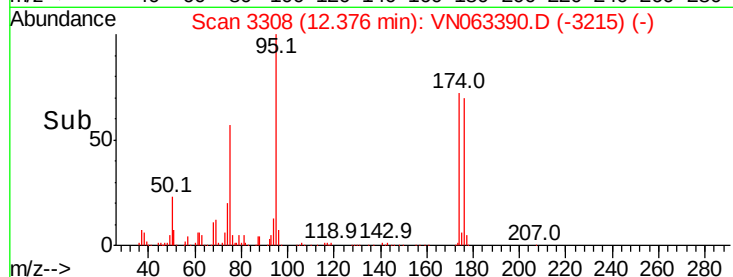
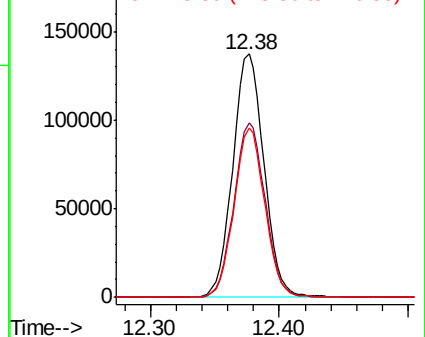
176 68.4 0.0 137.6



Abundance Ion 94.90 (94.60 to 95.60): VN063360.D (-3294) (-)

Ion 173.80 (173.50 to 174.50): VN063360.D (-3294) (-)

Ion 175.80 (175.50 to 176.50): VN063360.D (-3294) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. -0.00 min

Lab File: VN063390.D

Acq: 17 Sep 2020 2:16

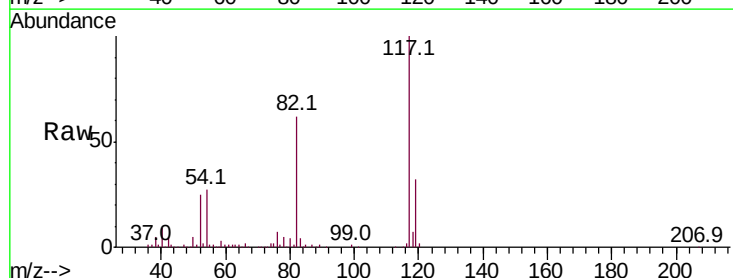
Tgt Ion: 117 Resp: 450016

Ion Ratio Lower Upper

117 100

82 61.9 49.2 73.8

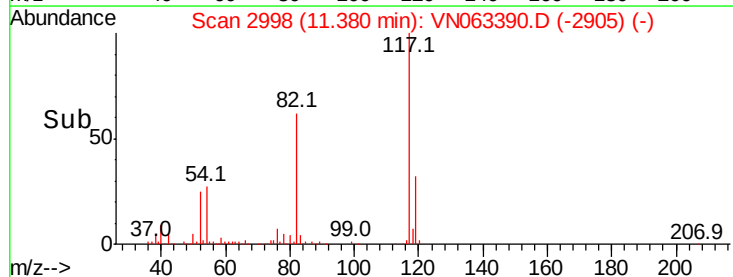
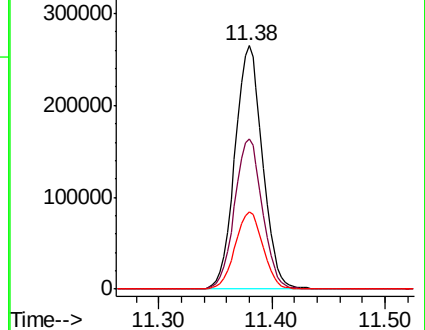
119 31.9 26.2 39.4

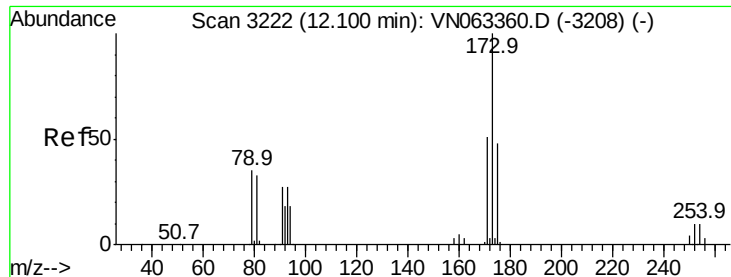


Abundance Ion 116.90 (116.60 to 117.60): VN063360.D (-2983) (-)

Ion 82.00 (81.70 to 82.70): VN063360.D (-2983) (-)

Ion 118.90 (118.60 to 119.60): VN063360.D (-2983) (-)





#71

Bromoform

Concen: 0.446 ug/l

RT: 12.38 min Scan# 3309

Delta R.T. 0.28 min

Lab File: VN063390.D

Acq: 17 Sep 2020 2:16

Instrument :

MSVOA_N

ClientSampleId :

PB131646ZHE#17

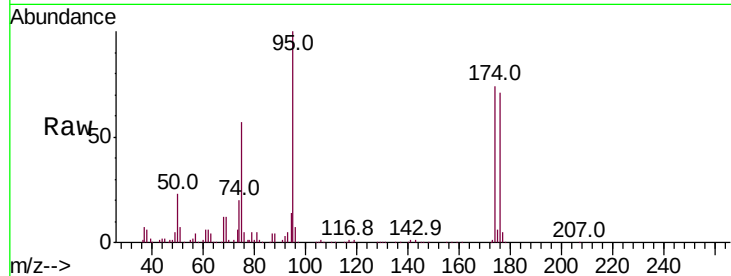
Tot Ion:173 Resp: 1164

Ion Ratio Lower Upper

173 100

175 965.0 24.0 72.0#

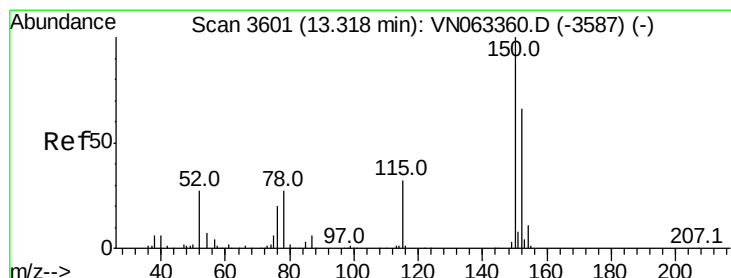
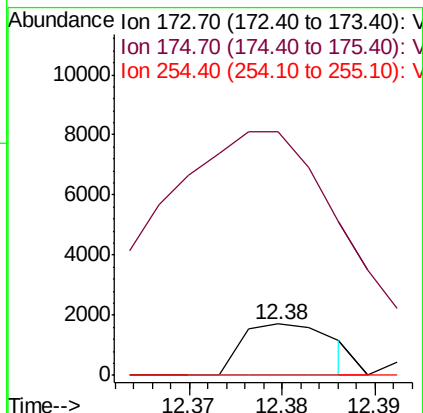
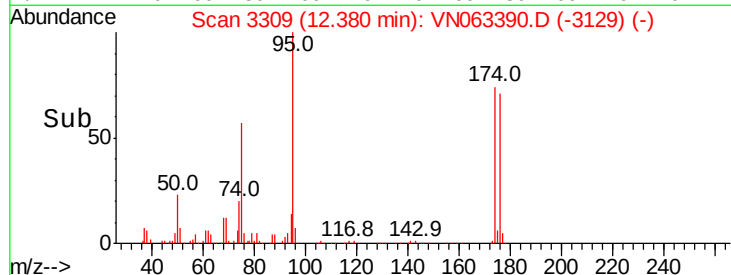
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): 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: VN063390.D

Acq: 17 Sep 2020 2:16

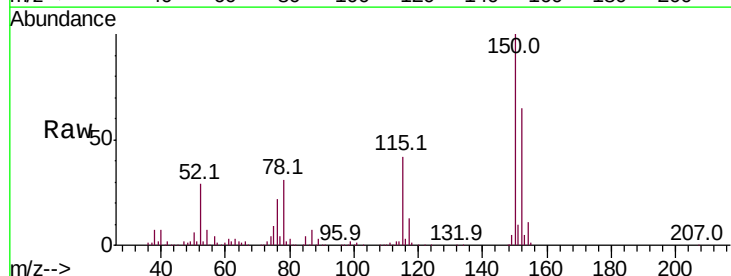
Tgt Ion:152 Resp: 189628

Ion Ratio Lower Upper

152 100

115 64.9 32.2 96.6

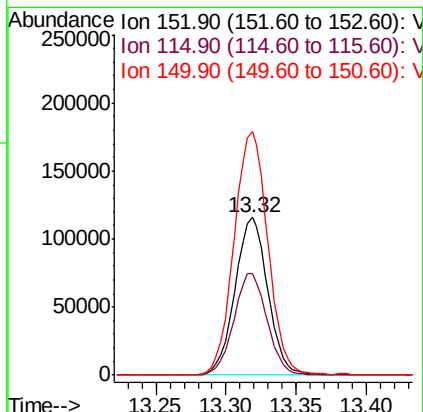
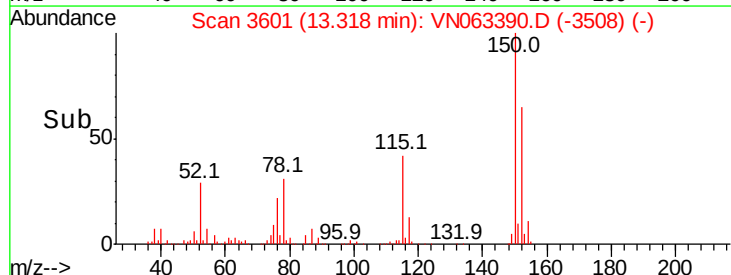
150 158.5 0.0 343.4

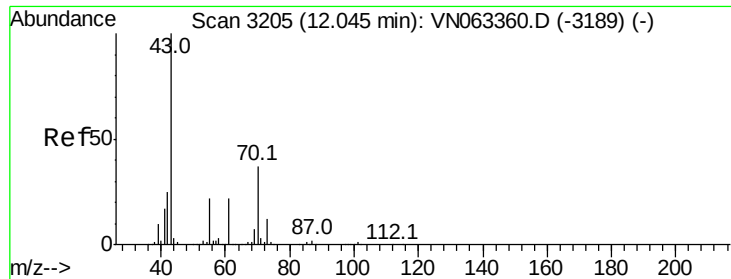


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.518 ug/l

RT: 12.01 min Scan# 3194

Delta R.T. -0.04 min

Lab File: VN063390.D

Acq: 17 Sep 2020 2:16

Instrument :

MSVOA_N

ClientSampleId :

PB131646ZHE#17

Tot Ion: 43 Resp: 3724

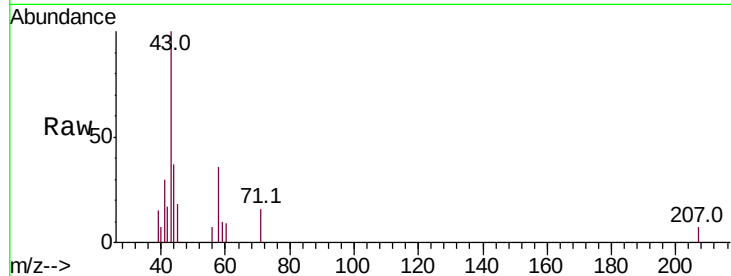
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 1.7 17.7 26.5#

61 0.0 17.4 26.2#

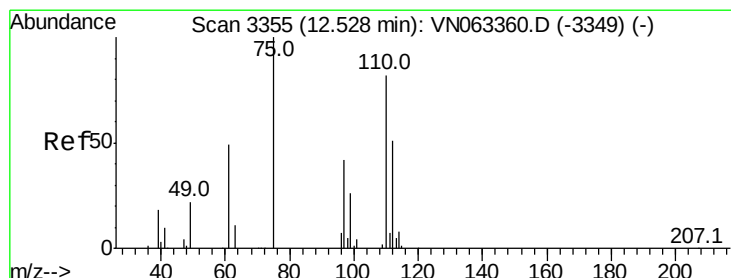
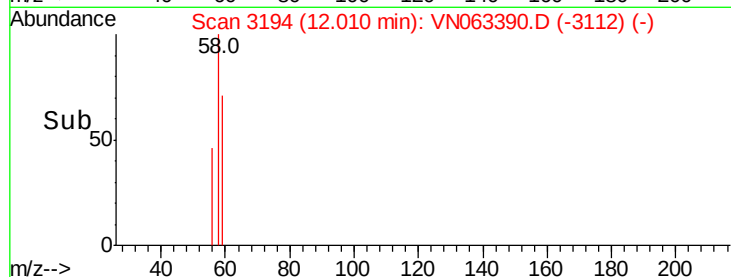
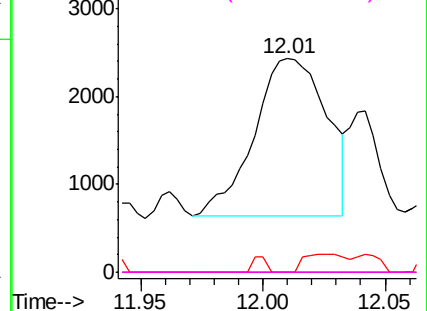


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 27.617 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063390.D

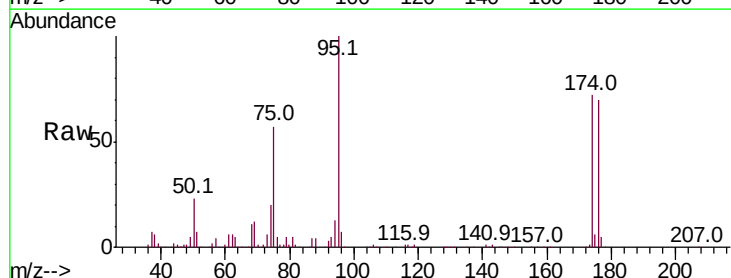
Acq: 17 Sep 2020 2:16

Tgt Ion: 75 Resp: 129620

Ion Ratio Lower Upper

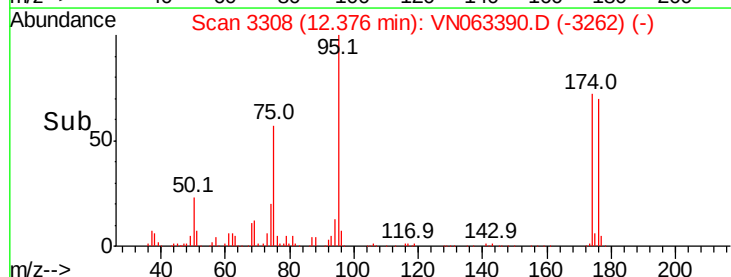
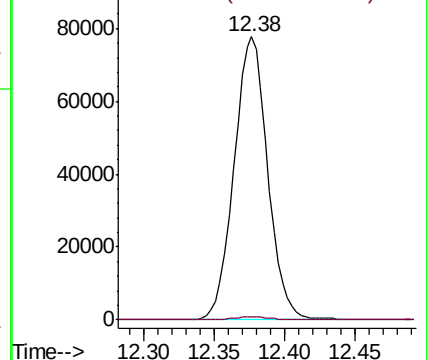
75 100

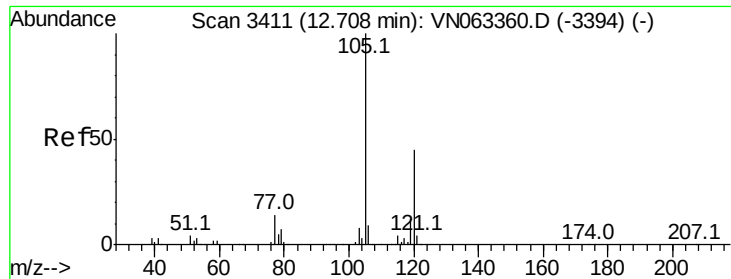
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

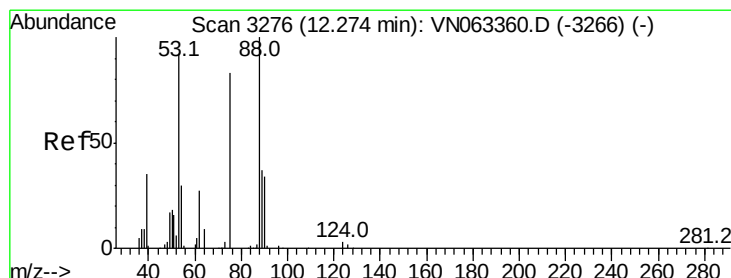
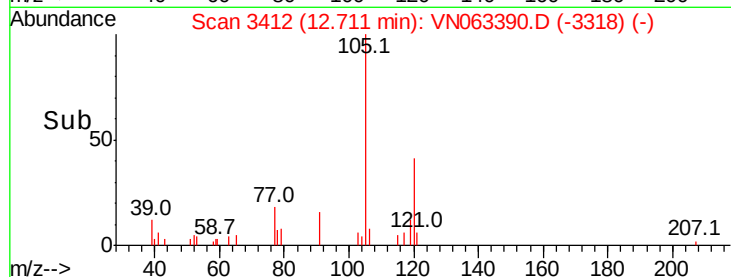
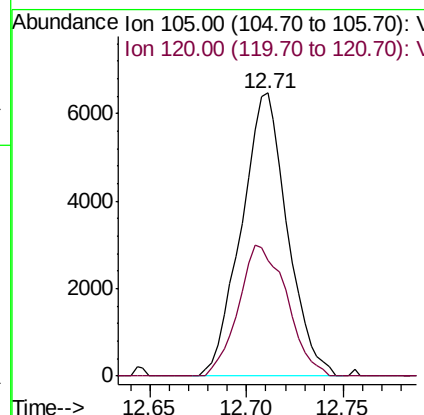
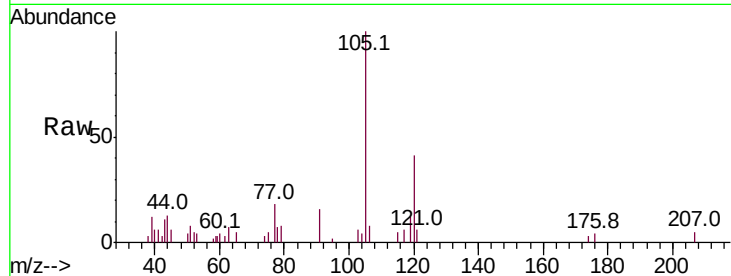




#80
 1,3,5-Trimethylbenzene
 Concen: 0.845 ug/l
 RT: 12.71 min Scan# 3412
 Delta R.T. 0.00 min
 Lab File: VN063390.D
 Acq: 17 Sep 2020 2:16

Instrument :
 MSVOA_N
 ClientSampleId :
 PB131646ZHE#17

Tot Ion:105 Resp: 10710
 Ion Ratio Lower Upper
 105 100
 120 48.5 22.9 68.8



#81
 trans-1,4-Dichloro-2-butene
 Concen: 75.714 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. 0.10 min
 Lab File: VN063390.D
 Acq: 17 Sep 2020 2:16

Tgt Ion: 75 Resp: 129620
 Ion Ratio Lower Upper
 75 100
 53 0.0 85.7 128.5#
 89 0.0 38.0 57.0#

