

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091620\
 Data File : VN063387.D
 Acq On : 17 Sep 2020 1:04
 Operator : JC/MD
 Sample : PB131646ZHE#14
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB131646ZHE#14

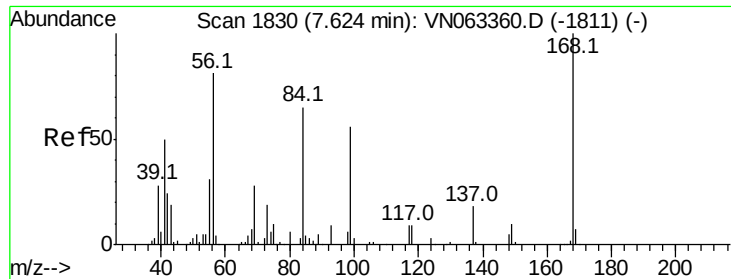
Quant Time: Sep 17 05:11:55 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 16 13:05:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	253757	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	462252	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	462160	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	193823	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	199814	46.26	ug/l	0.00
Spiked Amount			Recovery	=	92.52%	
35) Dibromofluoromethane	7.55	113	148613	46.44	ug/l	0.00
Spiked Amount			Recovery	=	92.88%	
50) Toluene-d8	10.06	98	598878	49.77	ug/l	0.00
Spiked Amount			Recovery	=	99.54%	
62) 4-Bromofluorobenzene	12.38	95	236796	53.68	ug/l	0.00
Spiked Amount			Recovery	=	107.36%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.55	94	463	0.231	ug/l	92
16) Acetone	3.78	43	12247	8.822	ug/l	100
18) Methyl Acetate	4.28	43	4665	1.324	ug/l #	71
20) Methylene Chloride	4.50	84	9401	2.673	ug/l	94
25) 2-Butanone	6.80	43	2883	1.350	ug/l	93
29) Tetrahydrofuran	7.17	42	1972	1.352	ug/l #	51
31) Cyclohexane	7.63	56	7102	1.190	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	24591	4.993	ug/l #	49
38) Carbon Tetrachloride	7.62	117	28650	5.699	ug/l #	17
43) Isopropyl Acetate	8.13	43	101119	11.700	ug/l	99
48) Methyl methacrylate	9.14	41	5971	1.406	ug/l #	15
49) 1,4-Dioxane	9.23	88	154	2.527	ug/l #	1
51) 4-Methyl-2-Pentanone	9.95	43	9099	1.881	ug/l	90
54) cis-1,3-Dichloropropene	9.87	75	40763	6.621	ug/l #	65
56) Ethyl methacrylate	10.51	69	1494	0.285	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	6691	1.105	ug/l #	42
59) 2-Hexanone	10.74	43	110030	31.390	ug/l #	54
74) N-amyl acetate	12.01	43	5853	0.796	ug/l #	48
76) 1,2,3-Trichloropropane	12.38	75	134036	27.939	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	4454	0.344	ug/l	93
81) trans-1,4-Dichloro-2-buten	12.38	75	134036	76.599	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: VN063387.D

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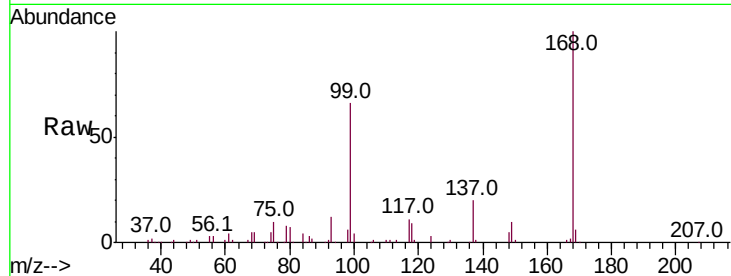
PB131646ZHE#14

Tot Ion:168 Resp: 253757

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): VNO

7.63

120000

100000

80000

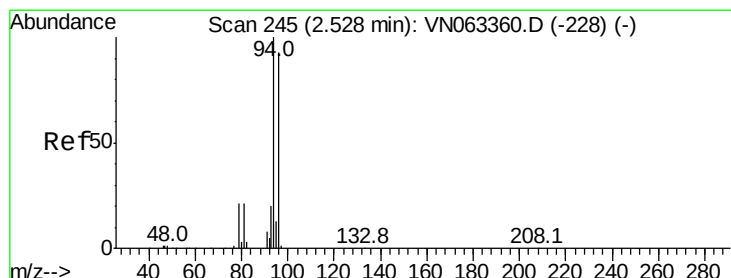
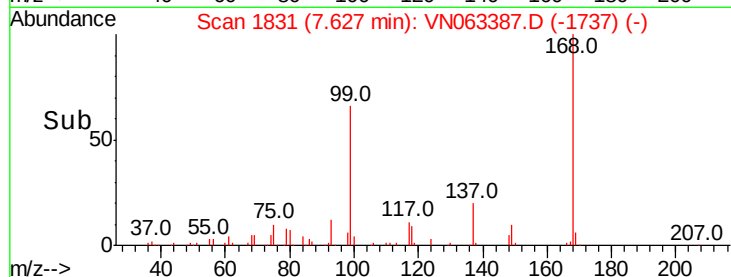
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#5

Bromomethane

Concen: 0.231 ug/l

RT: 2.55 min Scan# 253

Delta R.T. 0.03 min

Lab File: VN063387.D

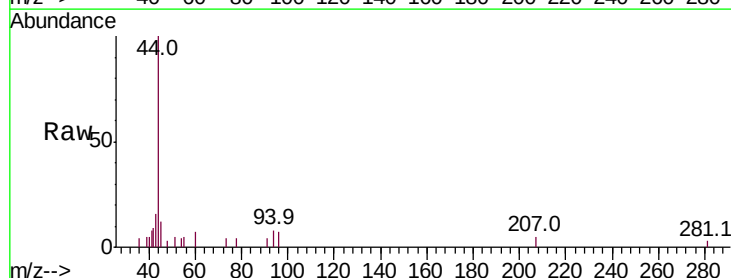
Acq: 17 Sep 2020 1:04

Tgt Ion: 94 Resp: 463

Ion Ratio Lower Upper

94 100

96 85.0 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.55

400

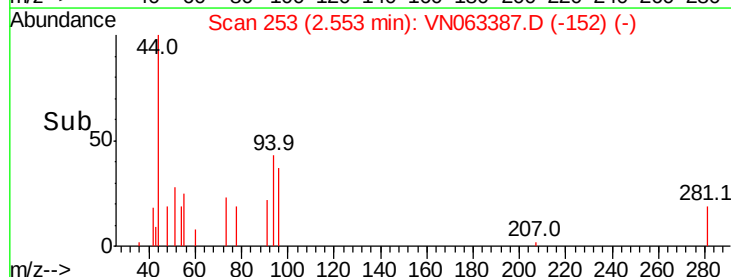
300

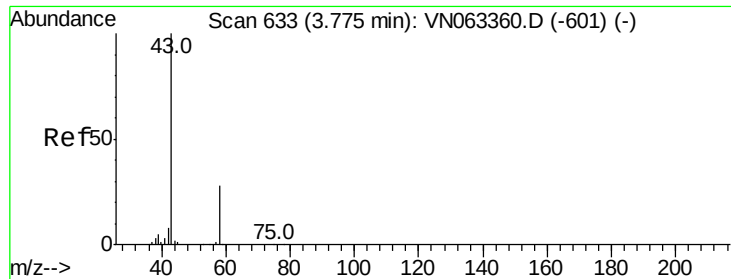
200

100

0

Time--> 2.52 2.54 2.56





#16

Acetone

Concen: 8.822 ug/l

RT: 3.78 min Scan# 633

Delta R.T. -0.00 min

Lab File: VN063387.D

Acq: 17 Sep 2020 1:04

Instrument :

MSVOA_N

ClientSampleId :

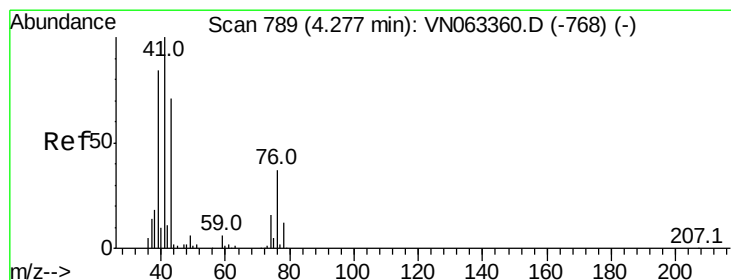
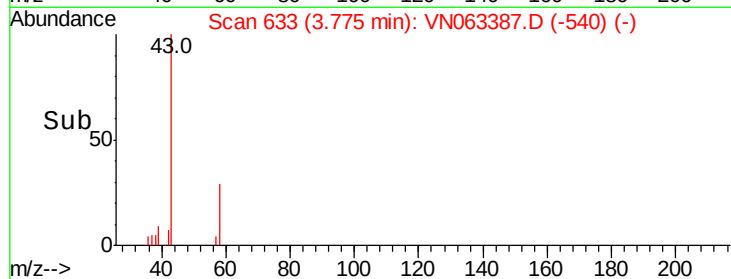
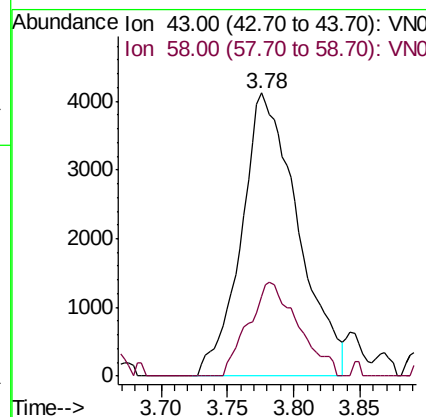
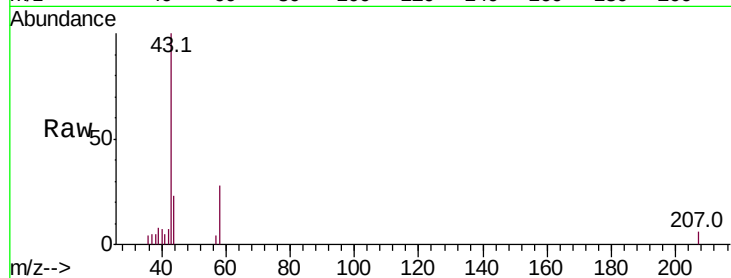
PB131646ZHE#14

Tot Ion: 43 Resp: 12247

Ion Ratio Lower Upper

43 100

58 28.1 22.3 33.5



#18

Methyl Acetate

Concen: 1.324 ug/l

RT: 4.28 min Scan# 791

Delta R.T. 0.01 min

Lab File: VN063387.D

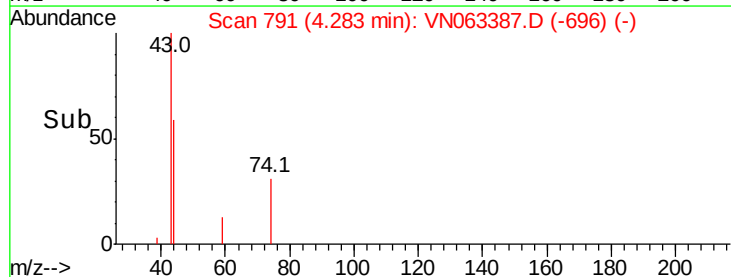
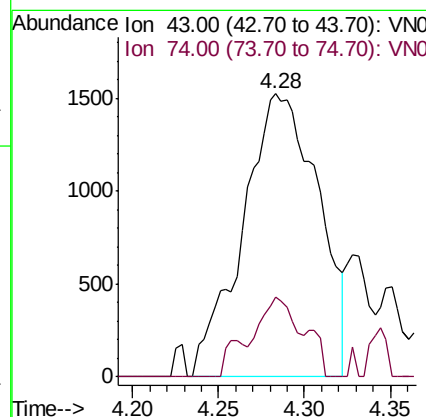
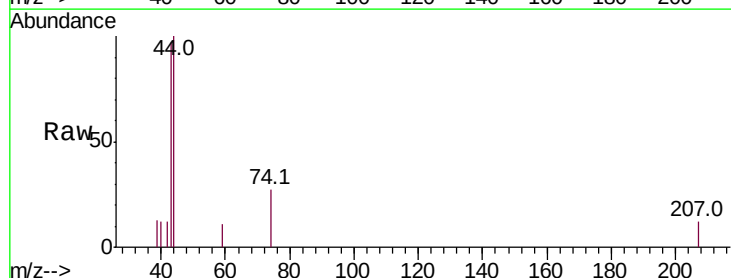
Acq: 17 Sep 2020 1:04

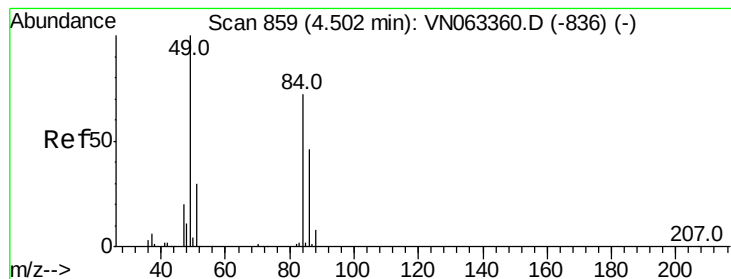
Tgt Ion: 43 Resp: 4665

Ion Ratio Lower Upper

43 100

74 8.1 17.4 26.2#





#20

Methvlene Chloride

Concen: 2.673 ug/l

RT: 4.50 min Scan# 859

Delta R.T. -0.00 min

Lab File: VN063387.D

Acq: 17 Sep 2020 1:04

Instrument :

MSVOA_N

ClientSampleId :

PB131646ZHE#14

Tot Ion: 84 Resp: 9401

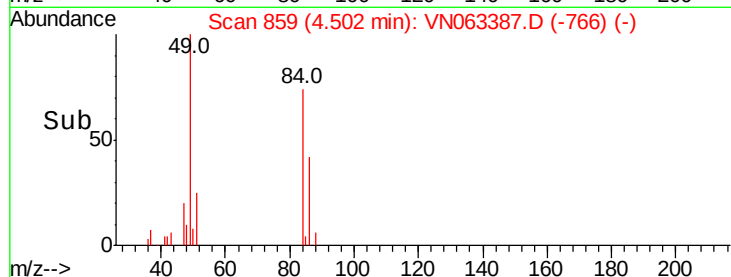
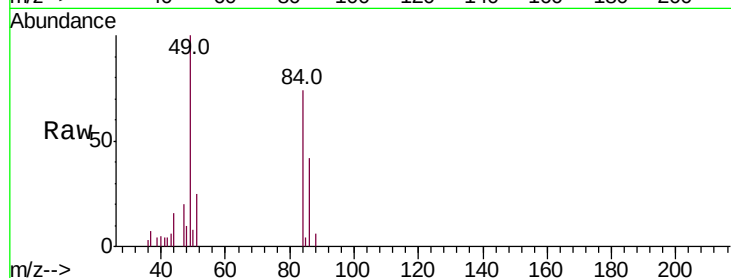
Ion Ratio Lower Upper

84 100

49 135.7 110.7 166.1

51 33.8 32.9 49.3

86 57.2 51.1 76.7

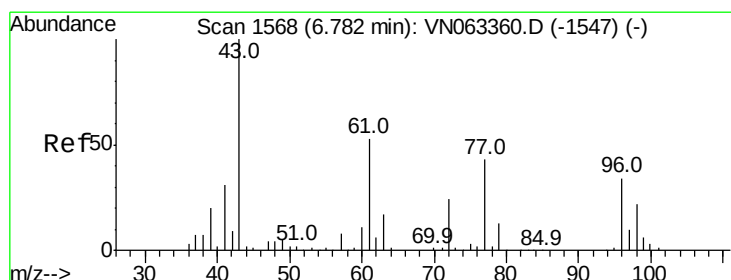
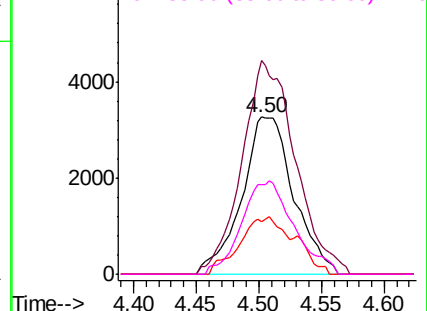


Abundance Ion 83.90 (83.60 to 84.60): VNO

Ion 48.90 (48.60 to 49.60): VNO

Ion 50.90 (50.60 to 51.60): VNO

Ion 85.90 (85.60 to 86.60): VNO



#25

2-Butanone

Concen: 1.350 ug/l

RT: 6.80 min Scan# 1574

Delta R.T. 0.02 min

Lab File: VN063387.D

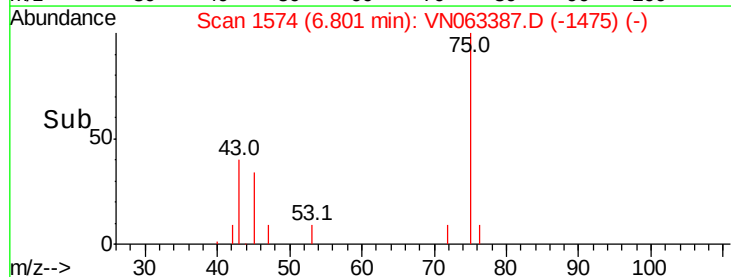
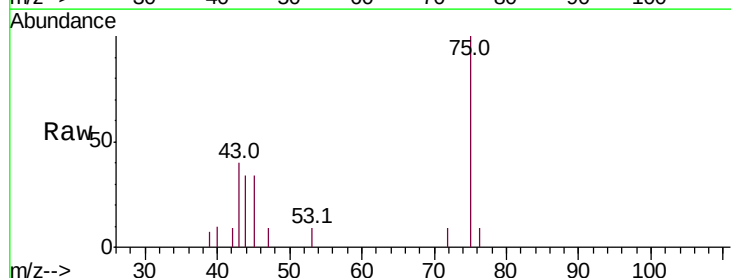
Acq: 17 Sep 2020 1:04

Tgt Ion: 43 Resp: 2883

Ion Ratio Lower Upper

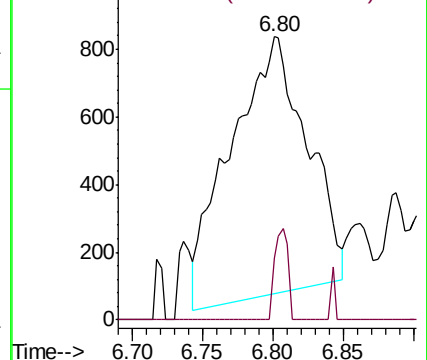
43 100

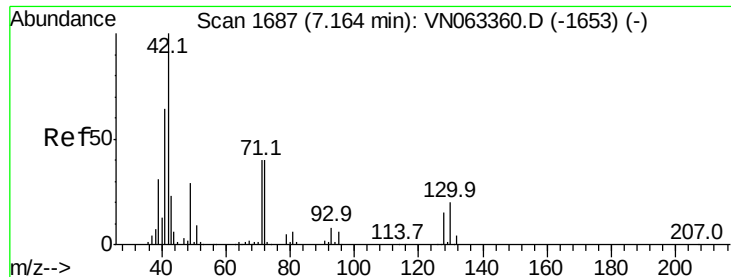
72 27.5 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 72.00 (71.70 to 72.70): VNO





#29

Tetrahydrofuran

Concen: 1.352 ug/l

RT: 7.17 min Scan# 1690

Delta R.T. 0.01 min

Lab File: VN063387.D

Acq: 17 Sep 2020 1:04

Instrument :

MSVOA_N

ClientSampleId :

PB131646ZHE#14

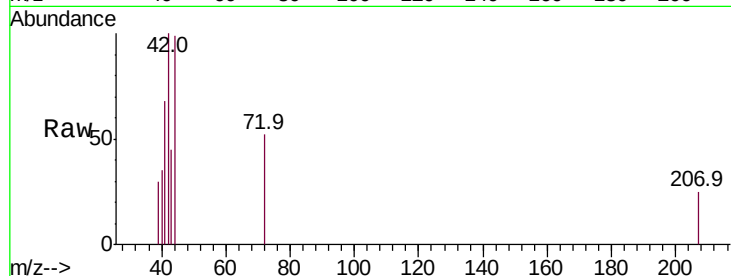
Tot Ion: 42 Resp: 1972

Ion Ratio Lower Upper

42 100

72 19.2 32.1 48.1#

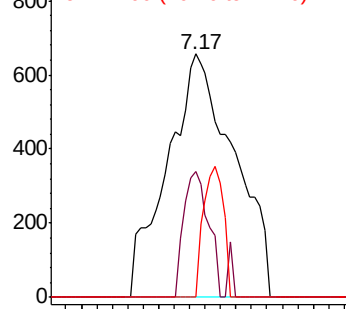
71 0.0 31.2 46.8#



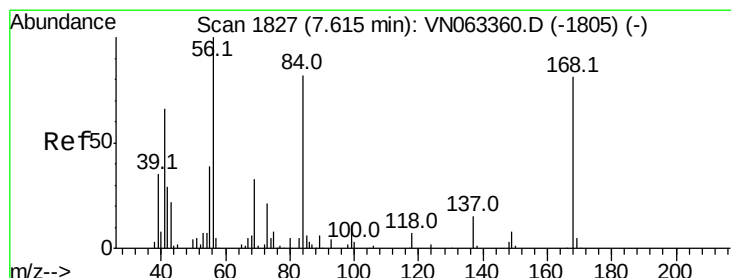
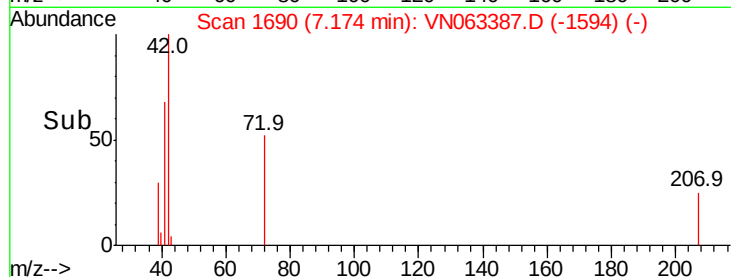
Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



Time-->



#31

Cyclohexane

Concen: 1.190 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. 0.02 min

Lab File: VN063387.D

Acq: 17 Sep 2020 1:04

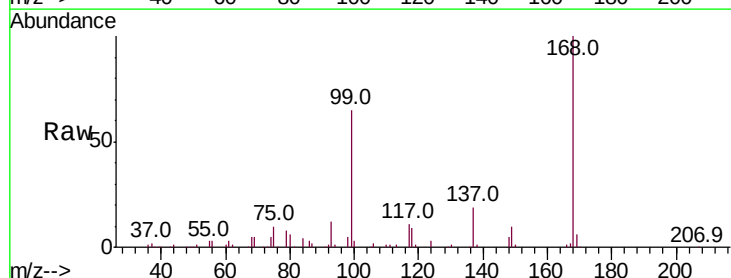
Tgt Ion: 56 Resp: 7102

Ion Ratio Lower Upper

56 100

69 167.9 26.1 39.1#

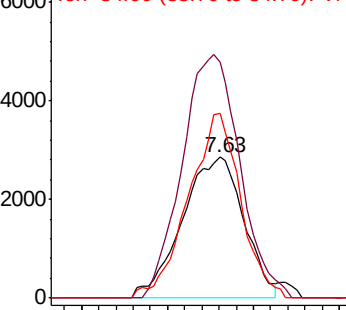
84 131.1 65.4 98.2#



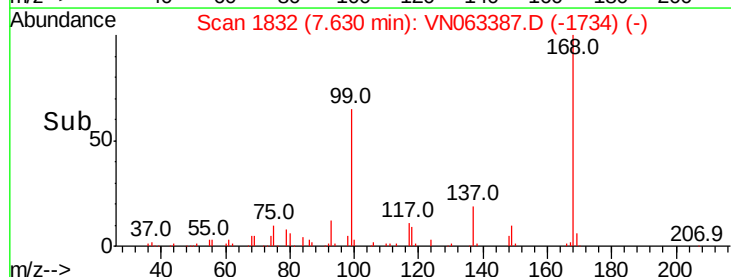
Abundance Ion 56.00 (55.70 to 56.70): VN0

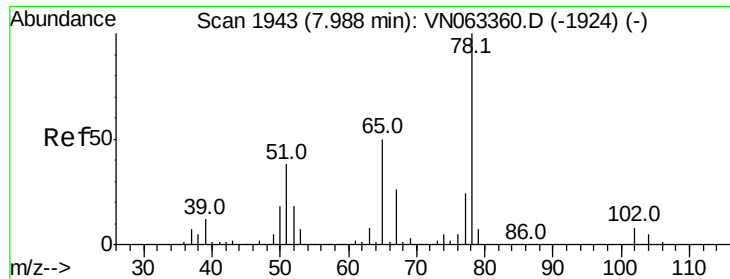
Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



Time-->

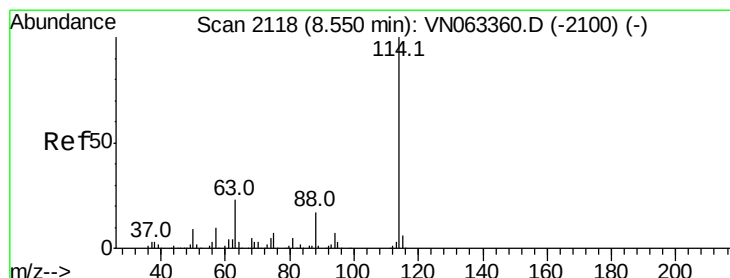
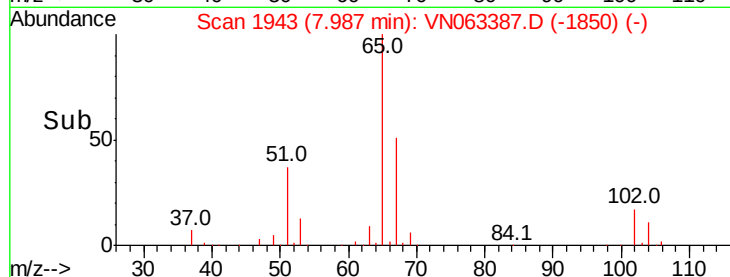
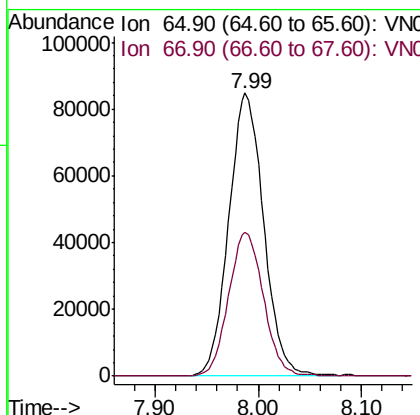
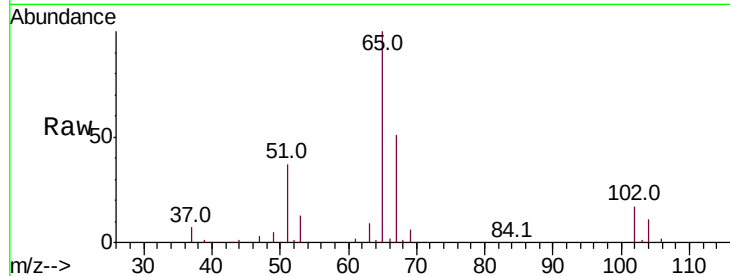




#33
 1,2-Dichloroethane-d4
 Concen: 46.257 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. -0.00 min
 Lab File: VN063387.D
 Acq: 17 Sep 2020 1:04

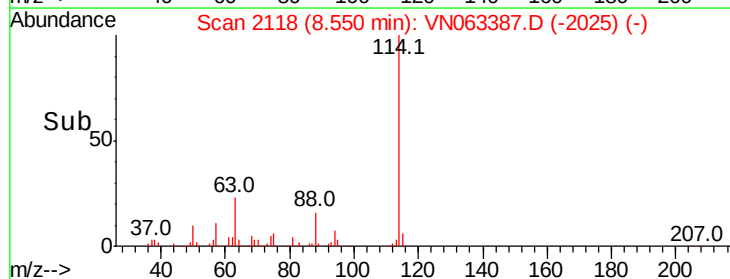
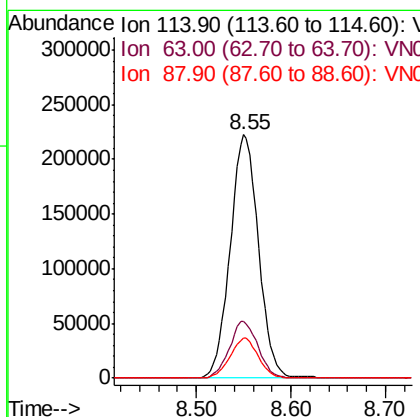
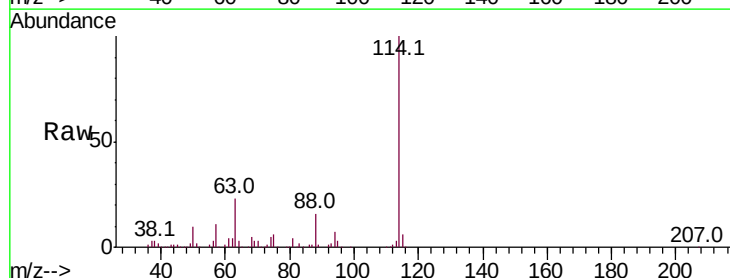
Instrument :
 MSVOA_N
 ClientSampleId :
 PB131646ZHE#14

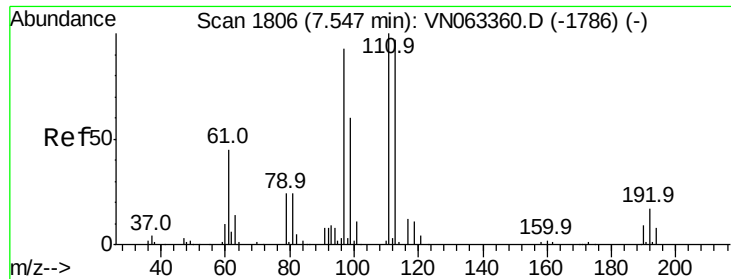
Tot Ion: 65 Resp: 199814
 Ion Ratio Lower Upper
 65 100
 67 50.8 0.0 104.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN063387.D
 Acq: 17 Sep 2020 1:04

Tgt Ion: 114 Resp: 462252
 Ion Ratio Lower Upper
 114 100
 63 23.4 0.0 46.4
 88 16.4 0.0 33.2

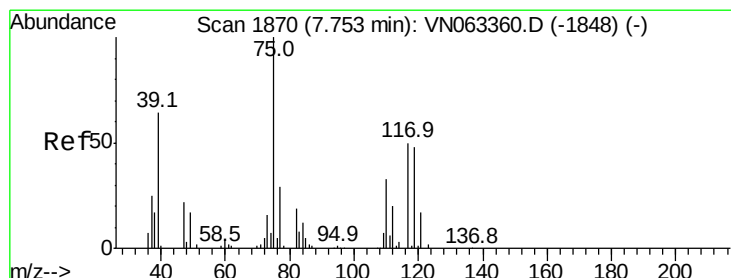
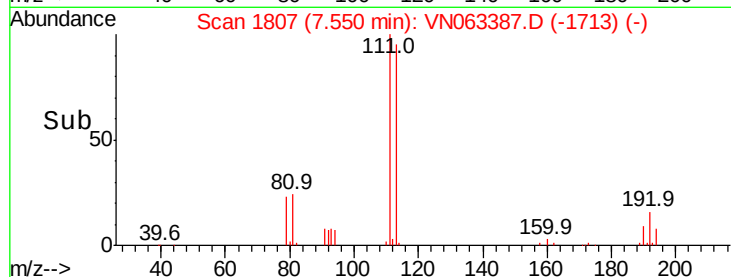
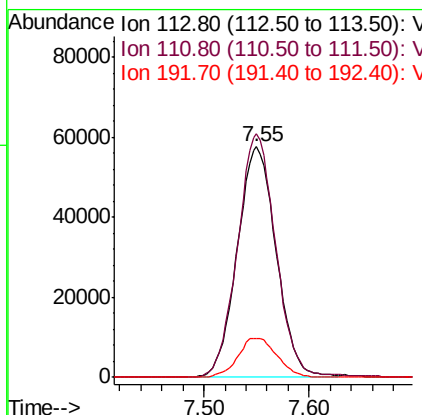
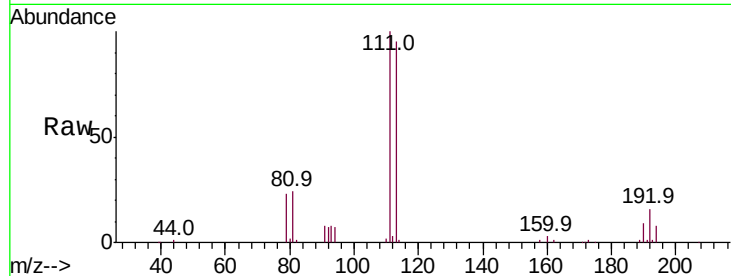




#35
 Dibromofluoromethane
 Concen: 46.440 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN063387.D
 Acq: 17 Sep 2020 1:04

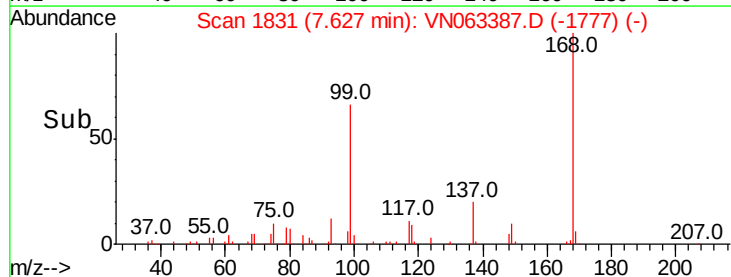
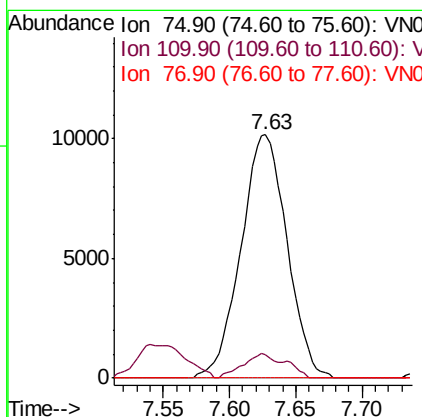
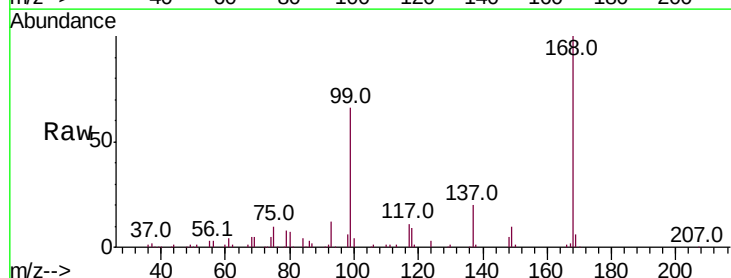
Instrument :
 MSVOA_N
 ClientSampleId :
 PB131646ZHE#14

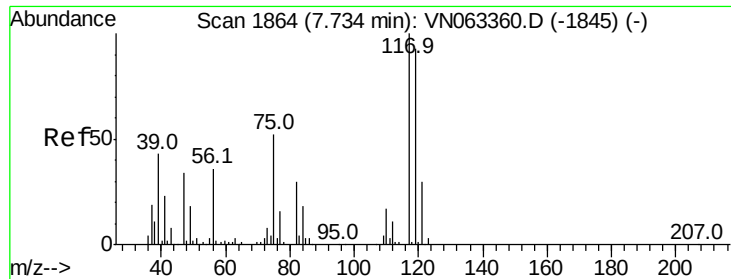
Tot Ion:113 Resp: 148613
 Ion Ratio Lower Upper
 113 100
 111 102.7 82.9 124.3
 192 17.1 13.9 20.9



#36
 1,1-Dichloropropene
 Concen: 4.993 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN063387.D
 Acq: 17 Sep 2020 1:04

Tgt Ion: 75 Resp: 24591
 Ion Ratio Lower Upper
 75 100
 110 6.9 16.5 49.5#
 77 0.0 24.6 36.8#





#38

Carbon Tetrachloride

Concen: 5.699 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN063387.D

Acq: 17 Sep 2020 1:04

Instrument :

MSVOA_N

ClientSampleId :

PB131646ZHE#14

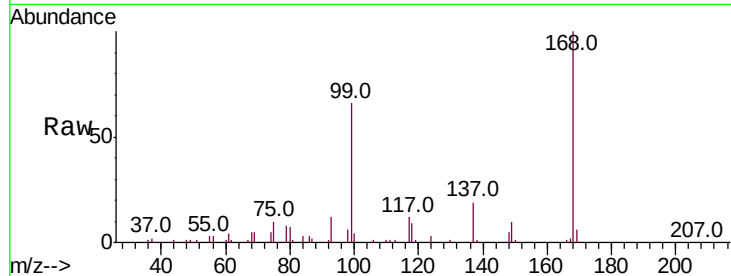
Tot Ion:117 Resp: 28650

Ion Ratio Lower Upper

117 100

119 5.2 74.5 111.7#

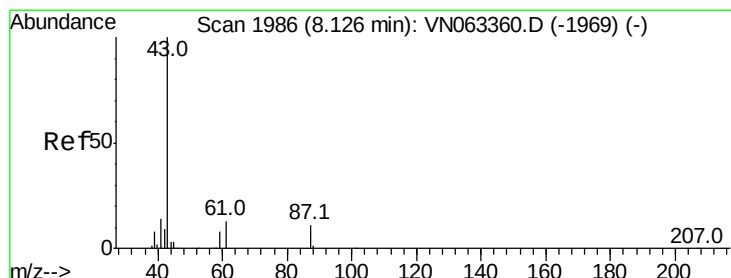
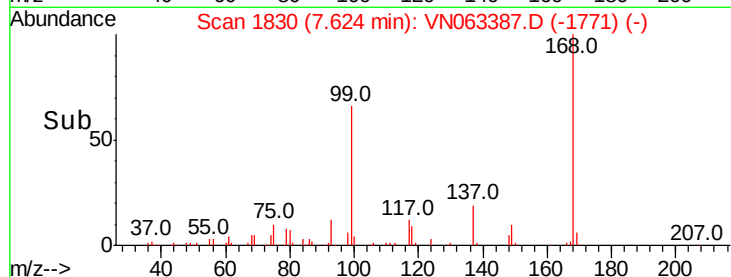
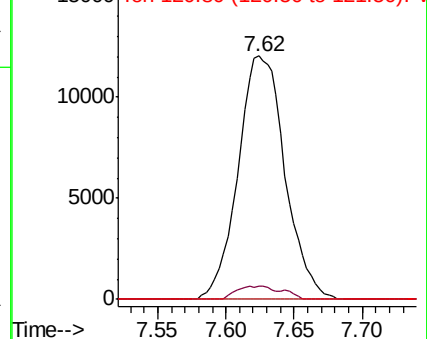
121 0.0 24.1 36.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 11.700 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VN063387.D

Acq: 17 Sep 2020 1:04

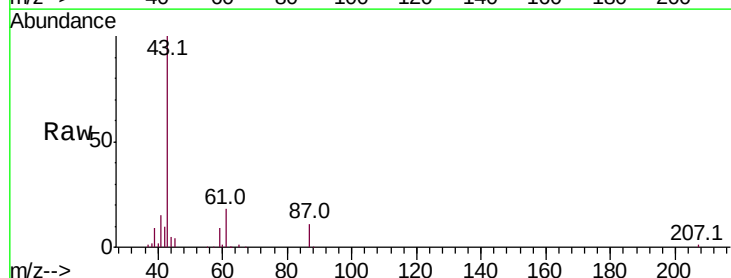
Tgt Ion: 43 Resp: 101119

Ion Ratio Lower Upper

43 100

61 18.1 14.2 21.2

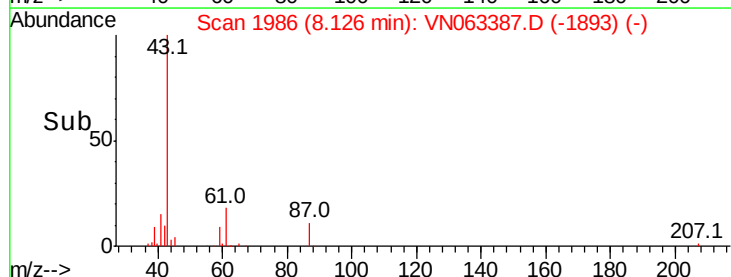
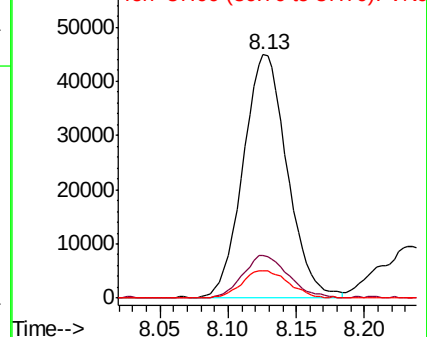
87 11.9 9.0 13.6

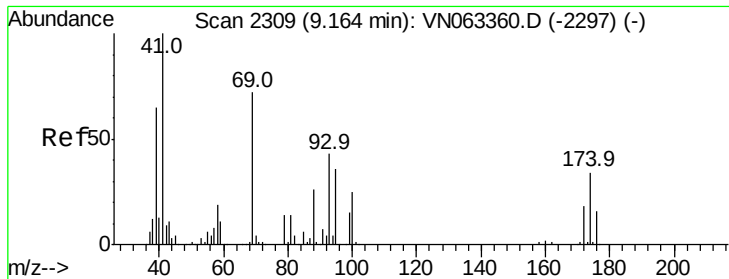


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

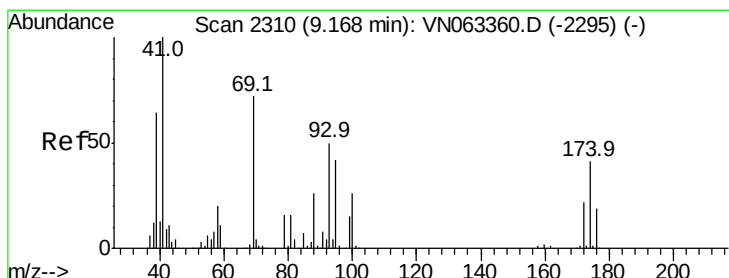
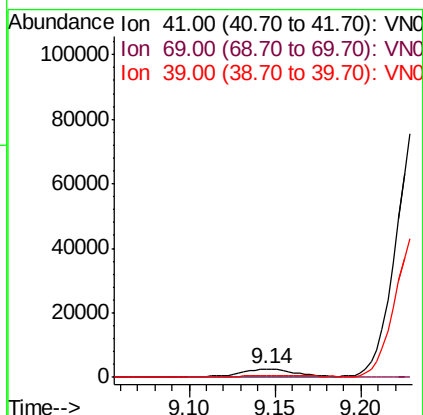
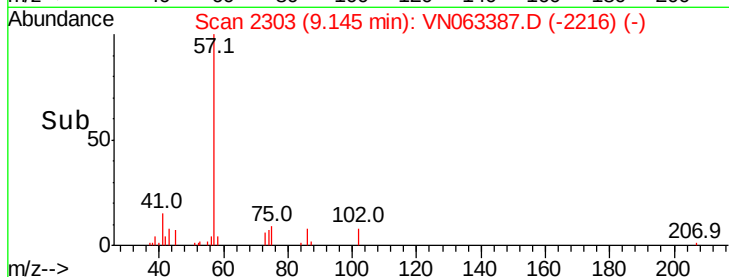
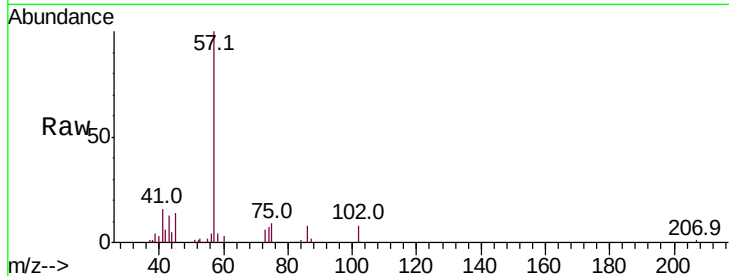




#48
Methvl methacrylate
Concen: 1.406 ug/l
RT: 9.14 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN063387.D
Acq: 17 Sep 2020 1:04

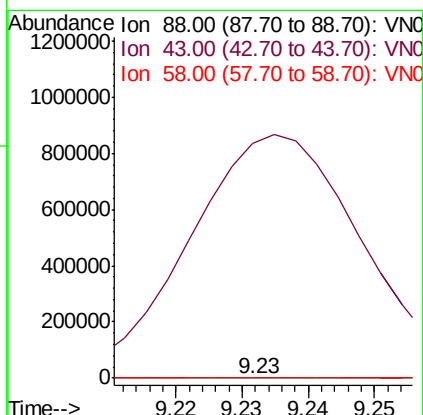
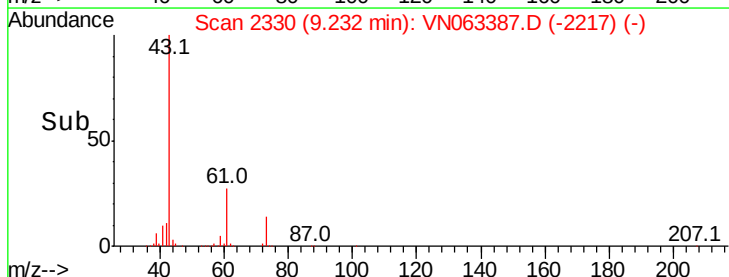
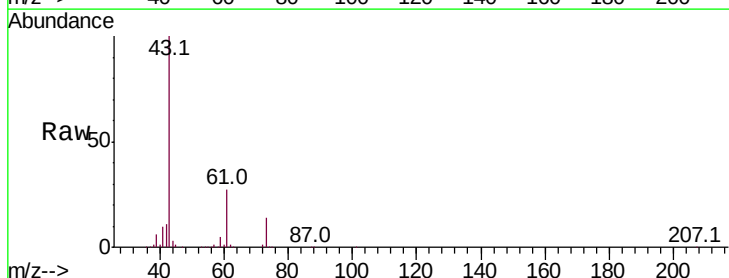
Instrument :
MSVOA_N
ClientSampleId :
PB131646ZHE#14

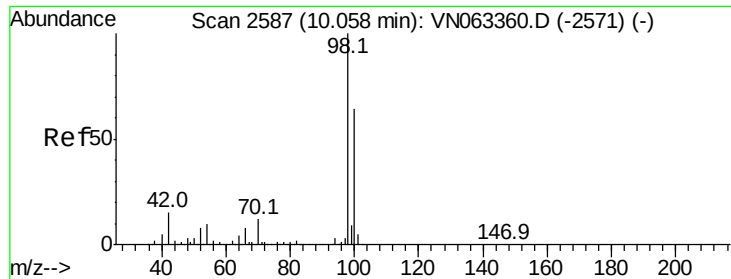
Tot Ion: 41 Resp: 5971
Ion Ratio Lower Upper
41 100
69 0.0 59.3 88.9#
39 0.0 52.9 79.3#



#49
1,4-Dioxane
Concen: 2.527 ug/l
RT: 9.23 min Scan# 2330
Delta R.T. 0.06 min
Lab File: VN063387.D
Acq: 17 Sep 2020 1:04

Tgt Ion: 88 Resp: 154
Ion Ratio Lower Upper
88 100
43 1044592.2 32.6 49.0#
58 3828.6 60.0 90.0#





#50

Toluene-d8

Concen: 49.770 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063387.D

Acq: 17 Sep 2020 1:04

Instrument :

MSVOA_N

ClientSampleId :

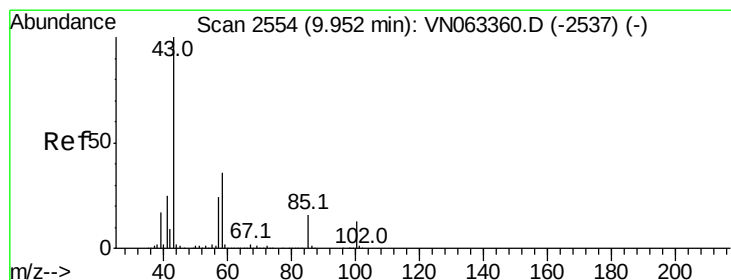
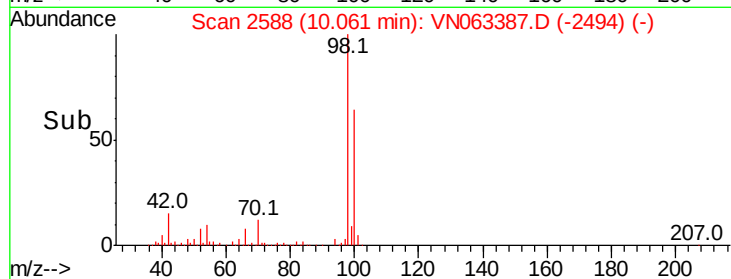
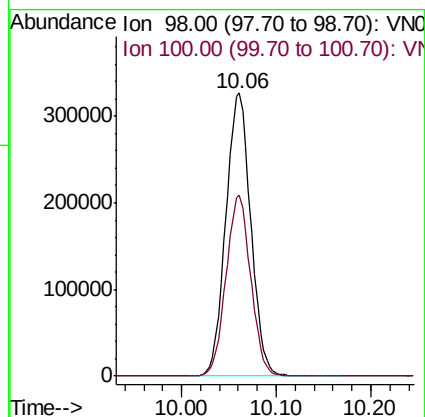
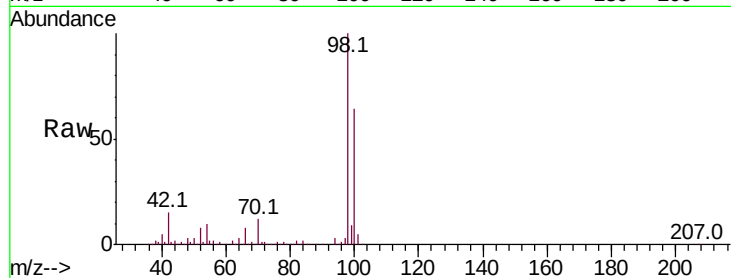
PB131646ZHE#14

Tot Ion: 98 Resp: 598878

Ion Ratio Lower Upper

98 100

100 63.1 50.7 76.1



#51

4-Methyl-2-Pentanone

Concen: 1.881 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN063387.D

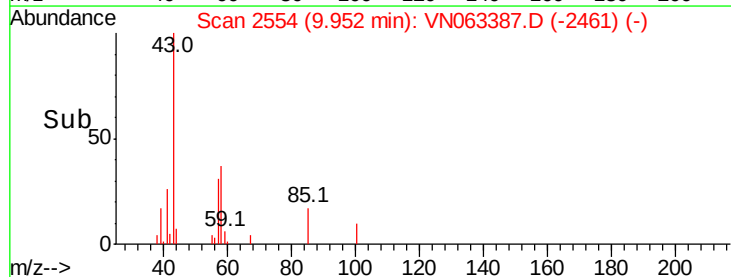
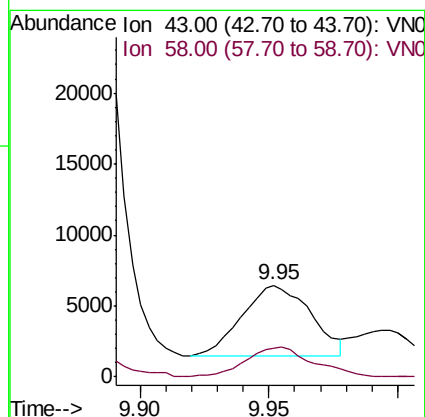
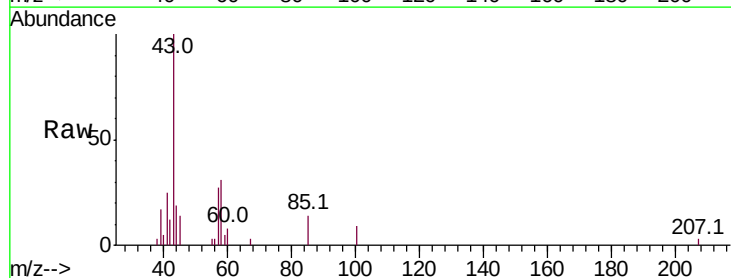
Acq: 17 Sep 2020 1:04

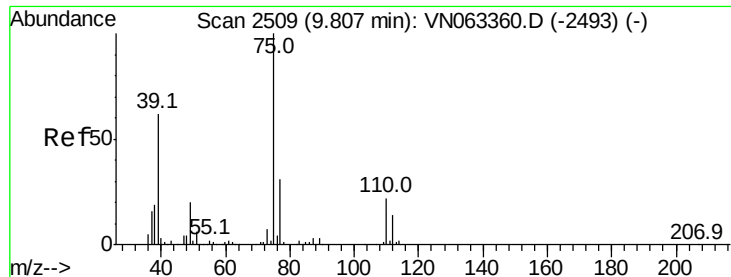
Tgt Ion: 43 Resp: 9099

Ion Ratio Lower Upper

43 100

58 41.9 29.0 43.6





#54

cis-1,3-Dichloropropene

Concen: 6.621 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063387.D

Acq: 17 Sep 2020 1:04

Instrument :

MSVOA_N

ClientSampleId :

PB131646ZHE#14

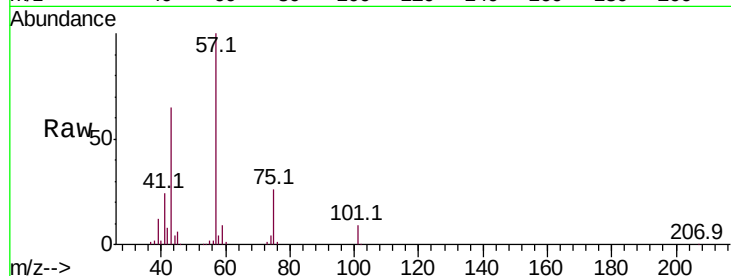
Tot Ion: 75 Resp: 40763

Ion Ratio Lower Upper

75 100

77 0.0 24.6 37.0#

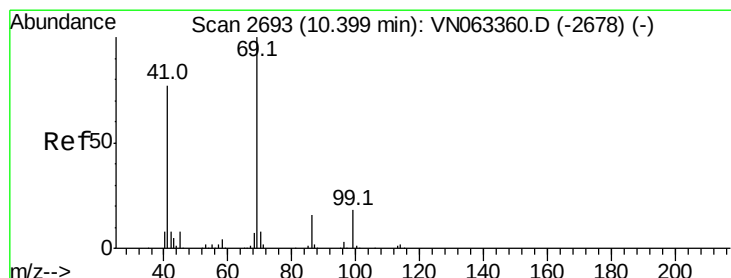
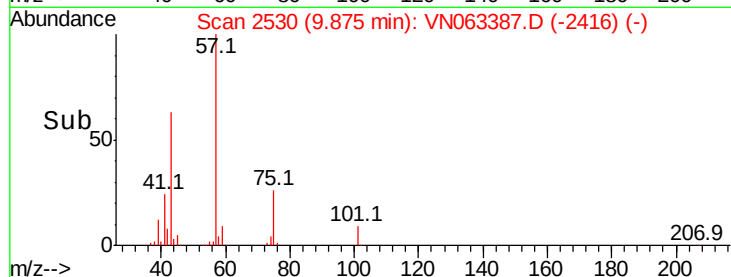
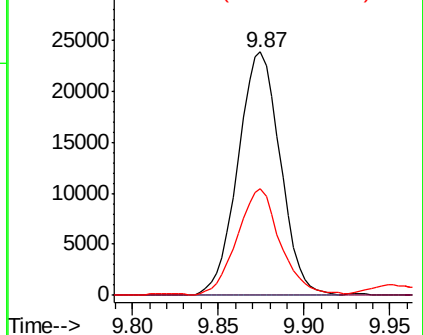
39 43.8 49.8 74.8#



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: 0.285 ug/l

RT: 10.51 min Scan# 2728

Delta R.T. 0.11 min

Lab File: VN063387.D

Acq: 17 Sep 2020 1:04

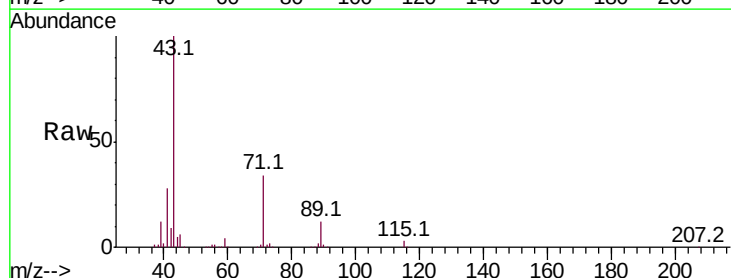
Tgt Ion: 69 Resp: 1494

Ion Ratio Lower Upper

69 100

41 8028.6 61.0 91.6#

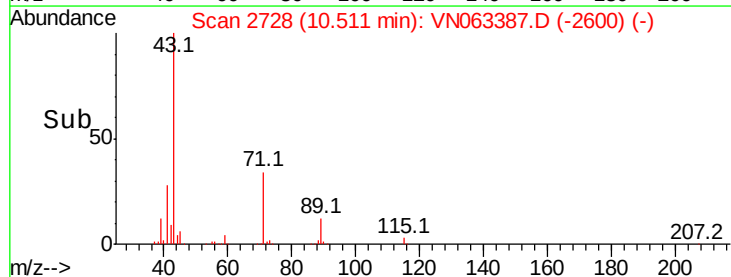
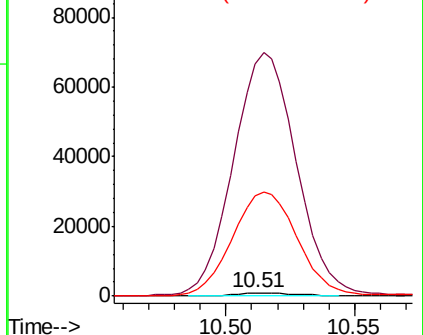
39 3542.2 39.2 58.8#

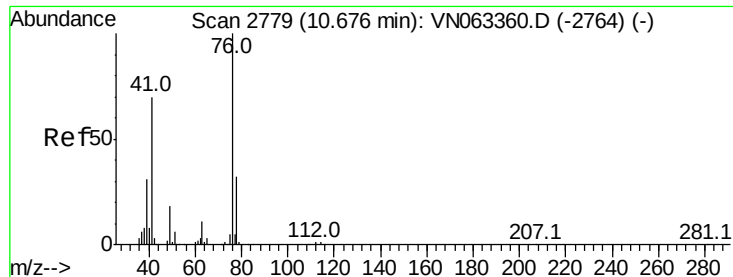


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 1.105 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063387.D

Acq: 17 Sep 2020 1:04

Instrument :

MSVOA_N

ClientSampleId :

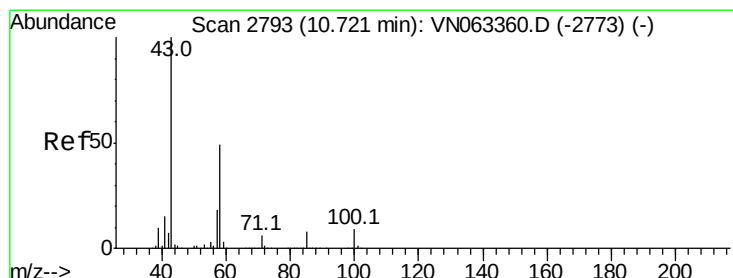
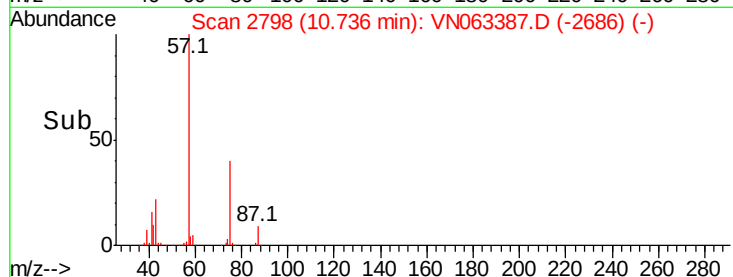
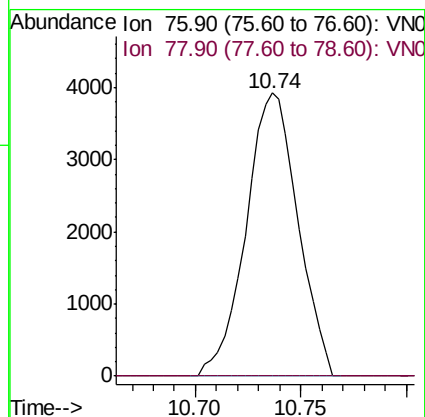
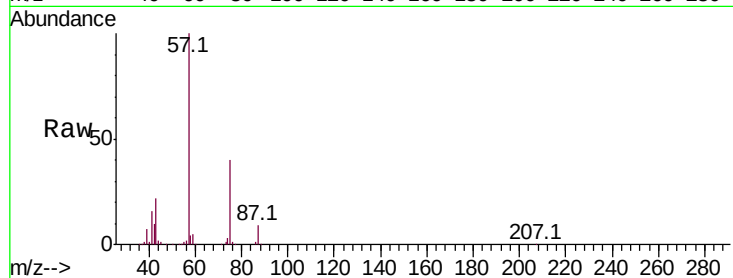
PB131646ZHE#14

Tot Ion: 76 Resp: 6691

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#



#59

2-Hexanone

Concen: 31.390 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063387.D

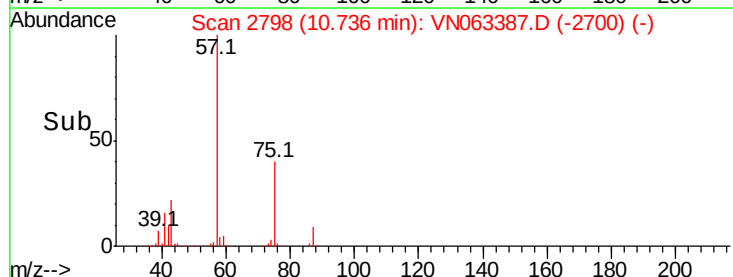
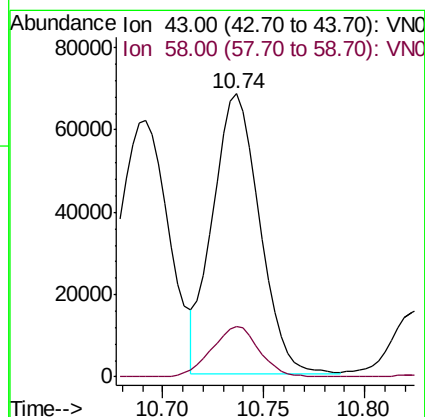
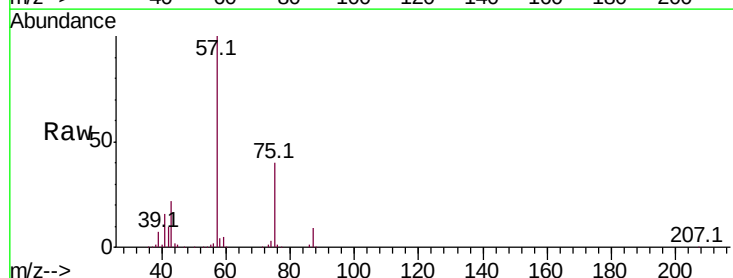
Acq: 17 Sep 2020 1:04

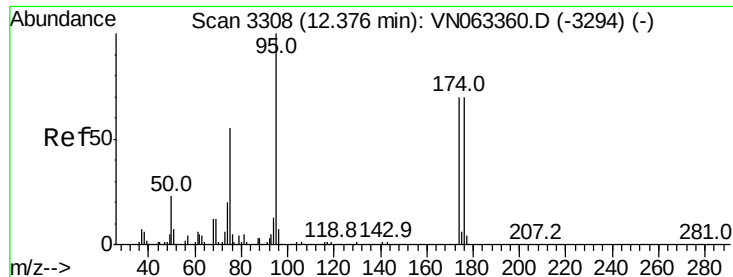
Tgt Ion: 43 Resp: 110030

Ion Ratio Lower Upper

43 100

58 18.2 24.7 74.1#





#62

4-Bromofluorobenzene

Concen: 53.683 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063387.D

Acq: 17 Sep 2020 1:04

Instrument :

MSVOA_N

ClientSampleId :

PB131646ZHE#14

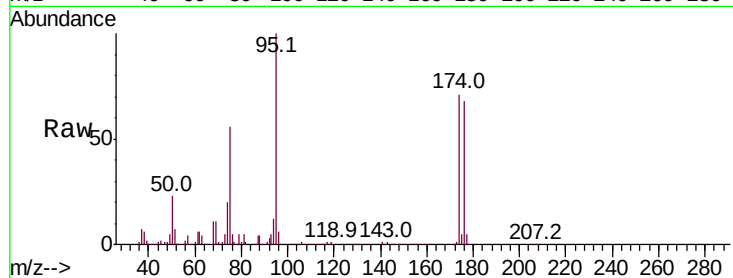
Tot Ion: 95 Resp: 236796

Ion Ratio Lower Upper

95 100

174 70.2 0.0 140.8

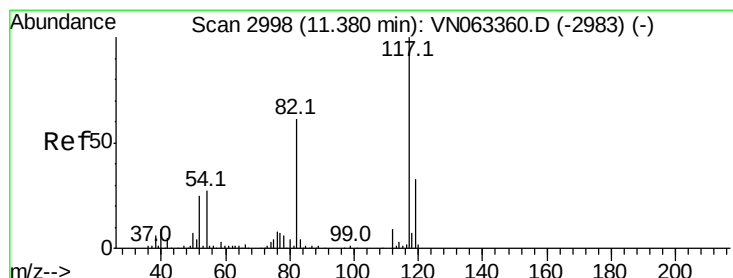
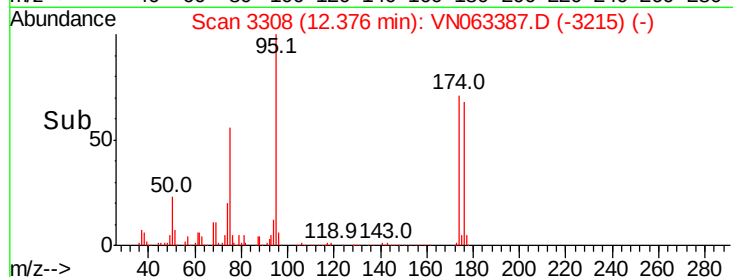
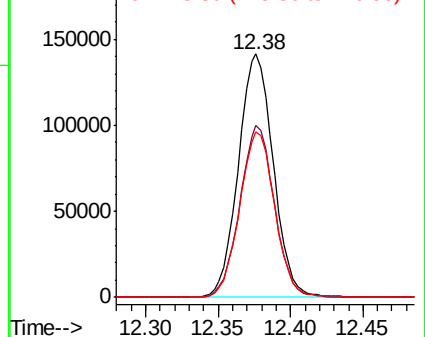
176 68.5 0.0 137.6



Abundance Ion 94.90 (94.60 to 95.60): VN063387.D (-2905) (-)

Ion 173.80 (173.50 to 174.50): VN063387.D (-2905) (-)

Ion 175.80 (175.50 to 176.50): VN063387.D (-2905) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. -0.00 min

Lab File: VN063387.D

Acq: 17 Sep 2020 1:04

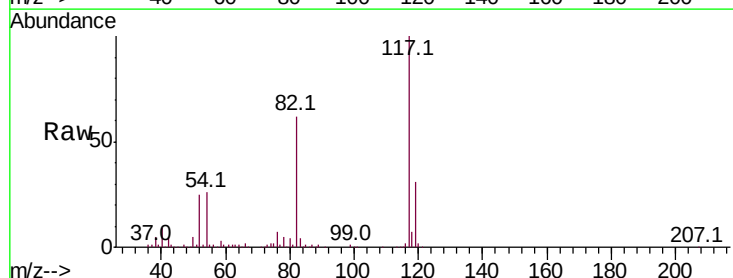
Tgt Ion: 117 Resp: 462160

Ion Ratio Lower Upper

117 100

82 62.2 49.2 73.8

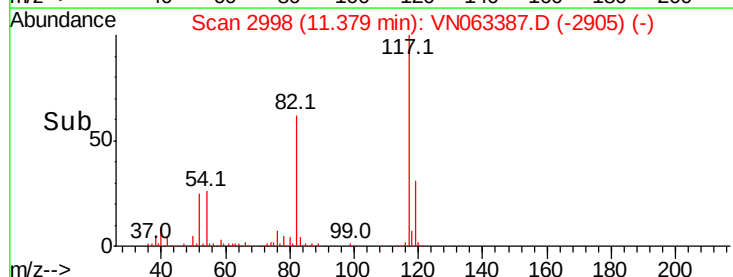
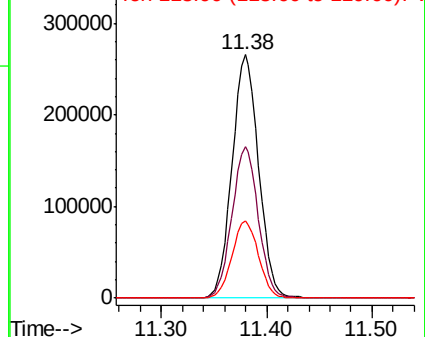
119 31.5 26.2 39.4

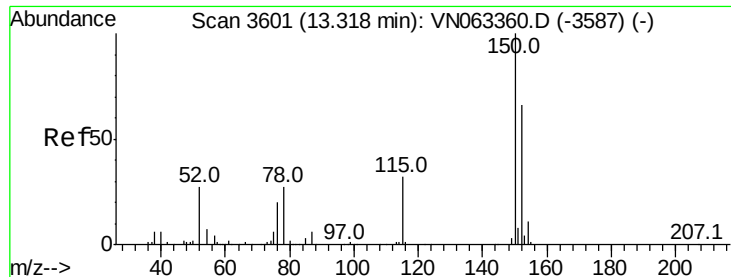


Abundance Ion 116.90 (116.60 to 117.60): VN063387.D (-2905) (-)

Ion 82.00 (81.70 to 82.70): VN063387.D (-2905) (-)

Ion 118.90 (118.60 to 119.60): VN063387.D (-2905) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. -0.00 min

Lab File: VN063387.D

Acq: 17 Sep 2020 1:04

Instrument :

MSVOA_N

ClientSampleId :

PB131646ZHE#14

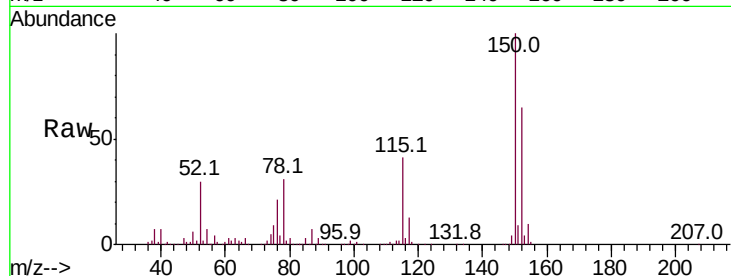
Tot Ion:152 Resp: 193823

Ion Ratio Lower Upper

152 100

115 64.2 32.2 96.6

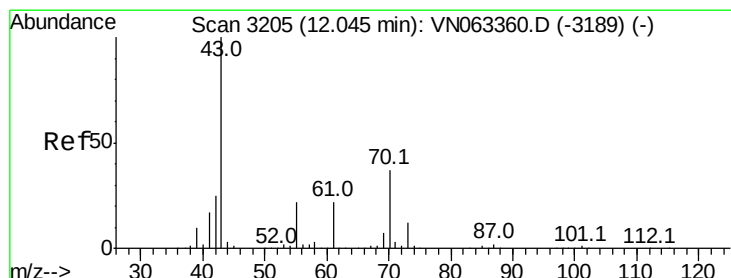
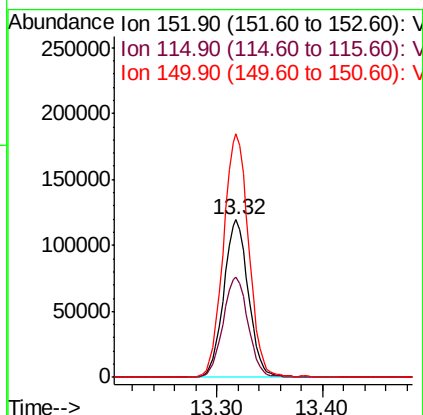
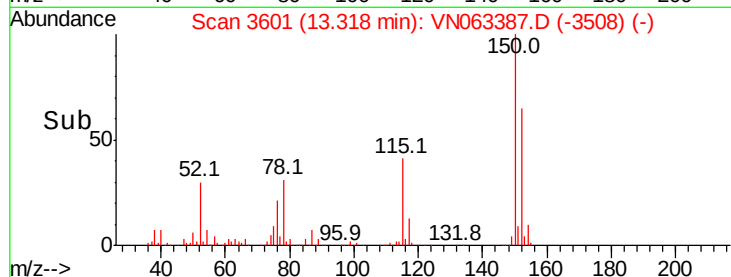
150 157.3 0.0 343.4



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-ethyl acetate

Concen: 0.796 ug/l

RT: 12.01 min Scan# 3195

Delta R.T. -0.03 min

Lab File: VN063387.D

Acq: 17 Sep 2020 1:04

Tgt Ion: 43 Resp: 5853

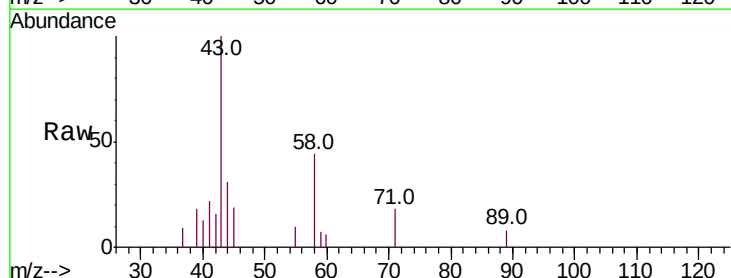
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 2.7 17.7 26.5#

61 0.0 17.4 26.2#

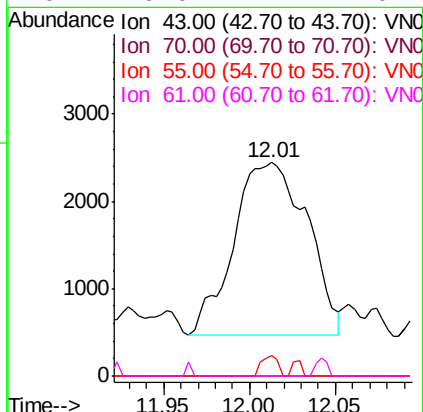
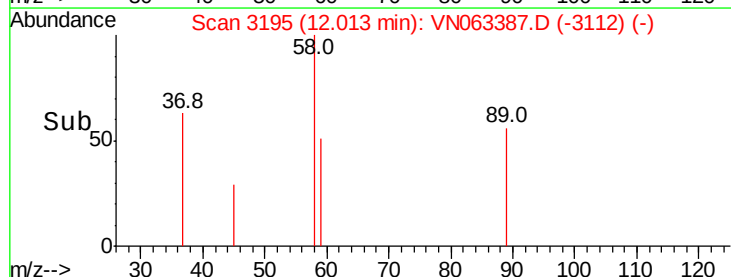


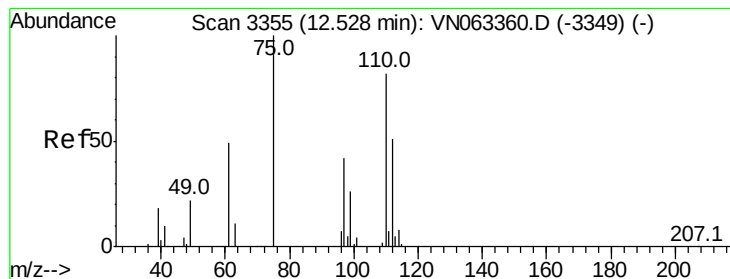
Abundance Ion 43.00 (42.70 to 43.70): V

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: 27.939 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063387.D

Acq: 17 Sep 2020 1:04

Instrument :

MSVOA_N

ClientSampleId :

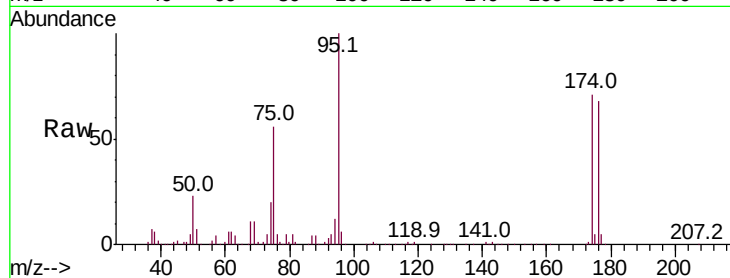
PB131646ZHE#14

Tot Ion: 75 Resp: 134036

Ion Ratio Lower Upper

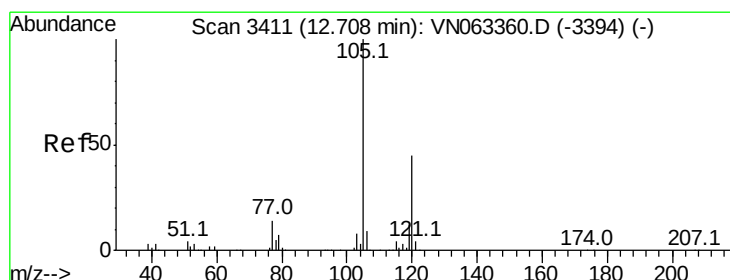
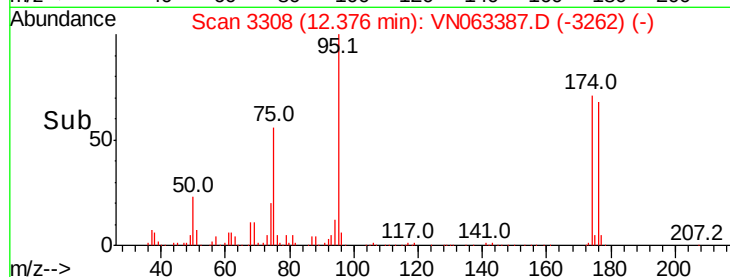
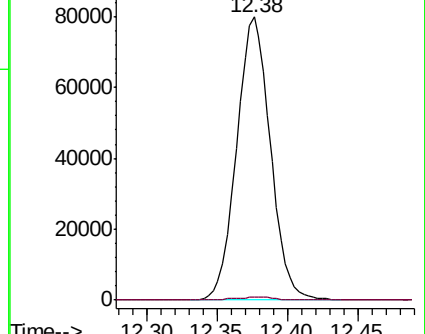
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN063360.D (-3349) (-)

Ion 77.00 (76.70 to 77.70): VN063360.D (-3349) (-)



#80

1,3,5-Trimethylbenzene

Concen: 0.344 ug/l

RT: 12.71 min Scan# 3412

Delta R.T. 0.00 min

Lab File: VN063387.D

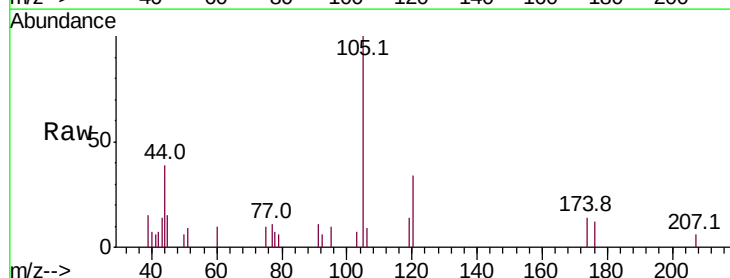
Acq: 17 Sep 2020 1:04

Tgt Ion: 105 Resp: 4454

Ion Ratio Lower Upper

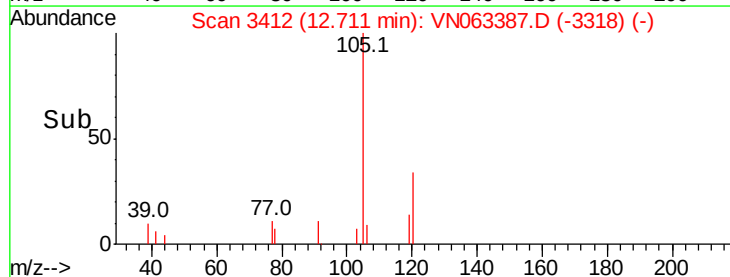
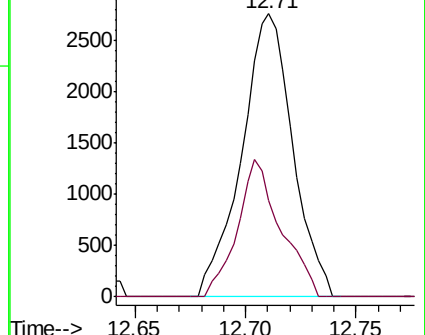
105 100

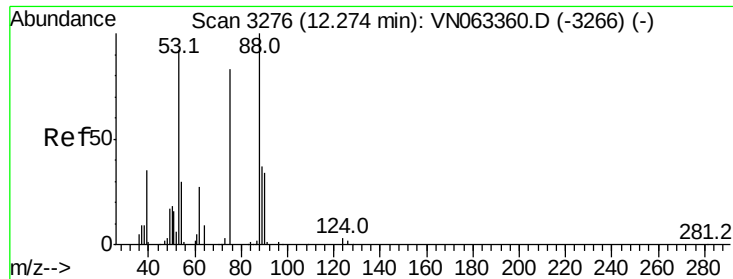
120 41.1 22.9 68.8



Abundance Ion 105.00 (104.70 to 105.70): VN063360.D (-3394) (-)

Ion 120.00 (119.70 to 120.70): VN063360.D (-3394) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 76.599 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063387.D

Acq: 17 Sep 2020 1:04

Instrument :

MSVOA_N

ClientSampleId :

PB131646ZHE#14

Tot Ion: 75 Resp: 134036

Ion Ratio Lower Upper

75 100

53 0.0 85.7 128.5#

89 0.1 38.0 57.0#

