

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090320\
 Data File : VN063213.D
 Acq On : 3 Sep 2020 12:24
 Operator : JC/MD
 Sample : PB131389TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB131389TB

Quant Time: Sep 04 04:03:26 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N083120W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 01 04:21:28 2020
 Response via : Initial Calibration

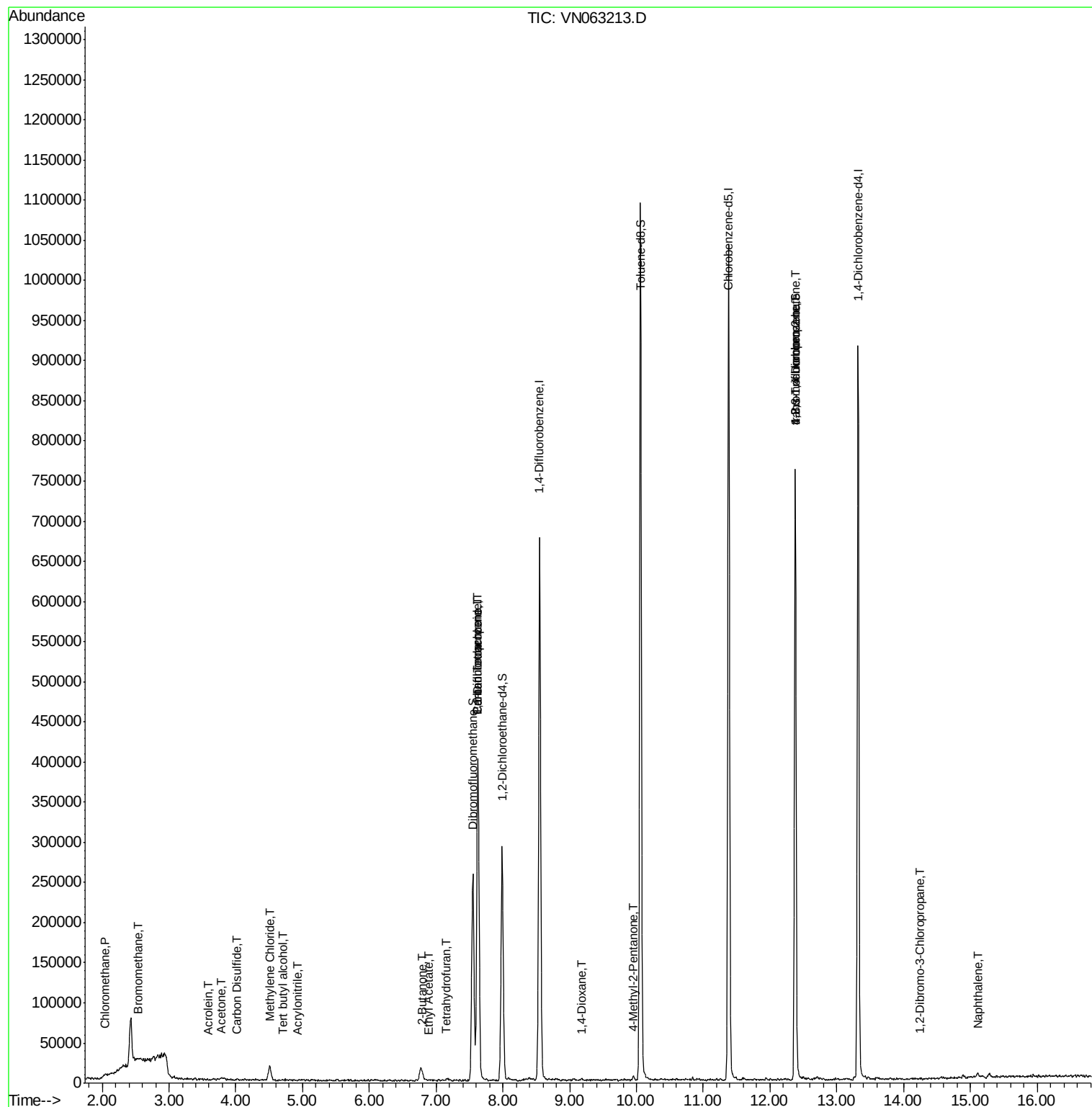
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	299413	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	587605	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	564921	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	220147	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	237890	48.60	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.20%	
35) Dibromofluoromethane	7.55	113	185877	49.31	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.62%	
50) Toluene-d8	10.06	98	728540	50.21	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.42%	
62) 4-Bromofluorobenzene	12.38	95	251928	49.63	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.26%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.03	50	1631	0.380	ug/l #	87
5) Bromomethane	2.53	94	1095	0.274	ug/l #	26
7) Trichlorofluoromethane	2.98	101	291	Below Cal	#	19
11) Tert butyl alcohol	4.71	59	450	0.749	ug/l #	68
13) Acrolein	3.59	56	61	16.019	ug/l #	50
15) Acrylonitrile	4.91	53	30	2.422	ug/l #	1
16) Acetone	3.78	43	4279	3.075	ug/l	95
17) Carbon Disulfide	4.01	76	2130	0.218	ug/l #	61
20) Methylene Chloride	4.50	84	11833	2.558	ug/l	95
25) 2-Butanone	6.79	43	1390	0.645	ug/l #	54
29) Tetrahydrofuran	7.16	42	486	0.326	ug/l #	90
31) Cyclohexane	7.62	56	9304	Below Cal	#	47
36) 1,1-Dichloropropene	7.62	75	28711	5.083	ug/l #	47
37) Ethyl Acetate	6.90	43	660	0.503	ug/l #	72
38) Carbon Tetrachloride	7.63	117	33537	5.854	ug/l #	15
49) 1,4-Dioxane	9.17	88	379	5.900	ug/l #	74
51) 4-Methyl-2-Pentanone	9.96	43	2627	0.525	ug/l	94
76) 1,2,3-Trichloropropane	12.38	75	146001	33.754	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	146001	81.583	ug/l #	10
92) 1,2-Dibromo-3-Chloropropan	14.25	75	237	0.221	ug/l #	7
95) Naphthalene	15.11	128	3807	0.300	ug/l #	95

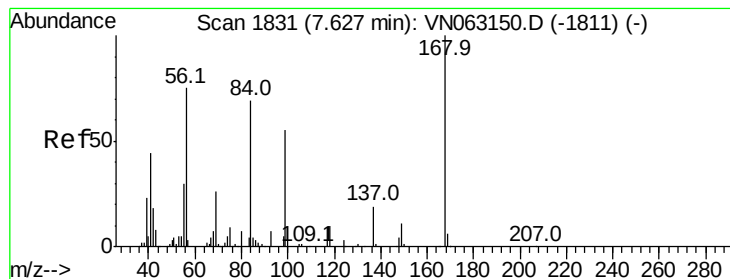
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Sep 01 04:21:28 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.00 min

Lab File: VN063213.D

Acq: 3 Sep 2020 12:24

Instrument :

MSVOA_N

ClientSampleId :

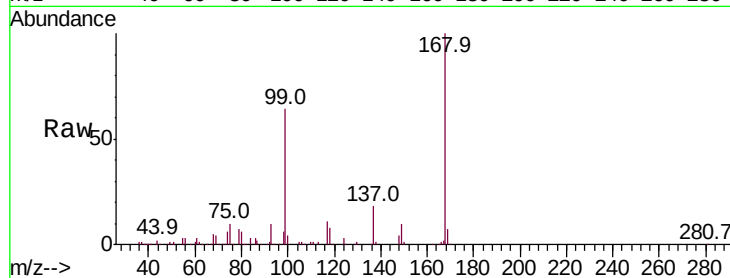
PB131389TB

Tot Ion:168 Resp: 299413

Ion Ratio Lower Upper

168 100

99 63.7 54.2 81.2



Abundance Ion 167.90 (167.60 to 168.60): VN063213.D (-1738) (-)

Ion 98.90 (98.60 to 99.60): VN063213.D (-1738) (-)

7.63

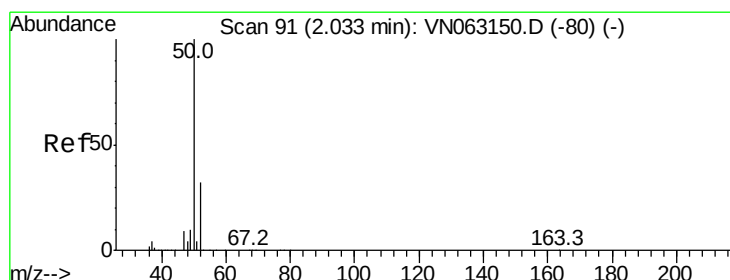
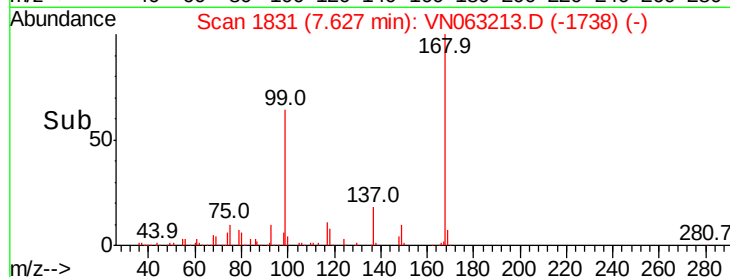
100000

50000

0

Time-->

7.55 7.60 7.65 7.70



#3

Chloromethane

Concen: 0.380 ug/l

RT: 2.03 min Scan# 91

Delta R.T. -0.00 min

Lab File: VN063213.D

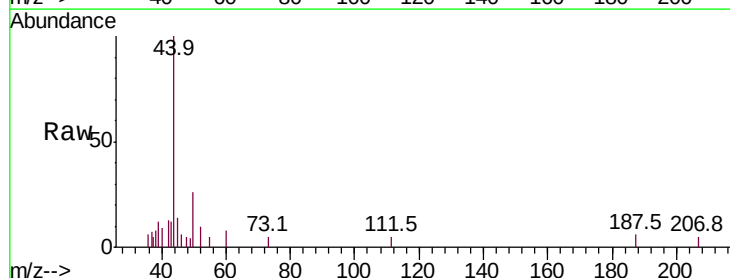
Acq: 3 Sep 2020 12:24

Tgt Ion: 50 Resp: 1631

Ion Ratio Lower Upper

50 100

52 39.5 25.8 38.6#



Abundance Ion 49.90 (49.60 to 50.60): VN063213.D (-1) (-)

Ion 51.90 (51.60 to 52.60): VN063213.D (-1) (-)

2.03

1000

800

600

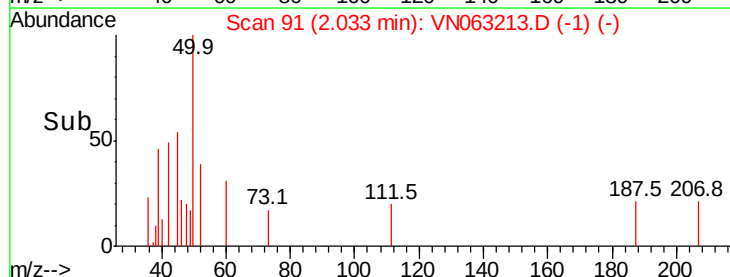
400

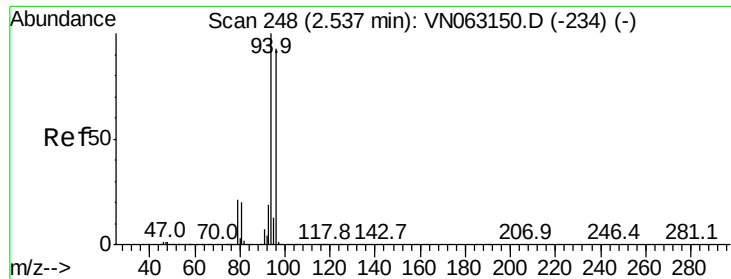
200

0

Time-->

2.00 2.02 2.04 2.06 2.08





#5

Bromomethane

Concen: 0.274 ug/l

RT: 2.53 min Scan# 247

Delta R.T. -0.00 min

Lab File: VN063213.D

Acq: 3 Sep 2020 12:24

Instrument :

MSVOA_N

ClientSampled :

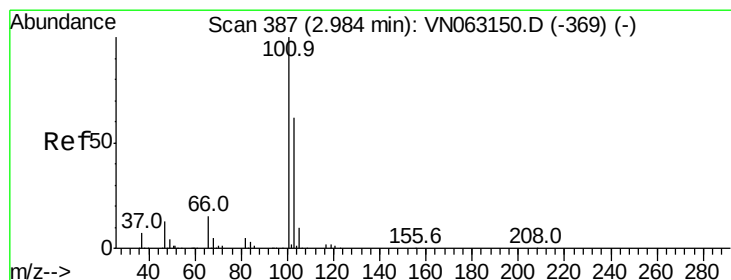
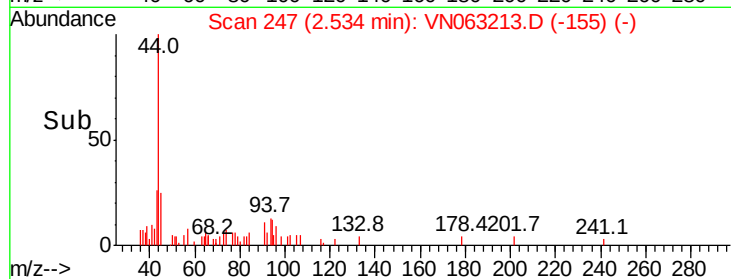
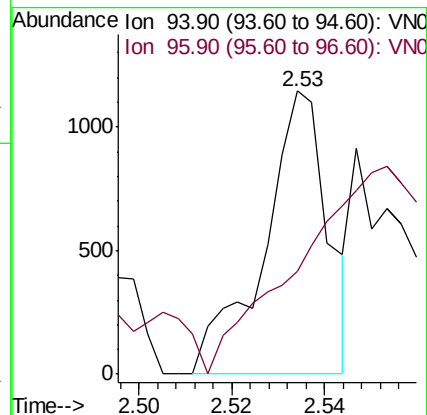
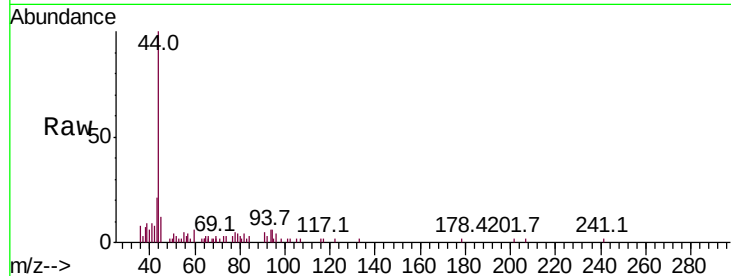
PB131389TB

Tot Ion: 94 Resp: 1095

Ion Ratio Lower Upper

94 100

96 22.1 74.4 111.6#



#7

Trichlorofluoromethane

Concen: Below Cal

RT: 2.98 min Scan# 385

Delta R.T. -0.01 min

Lab File: VN063213.D

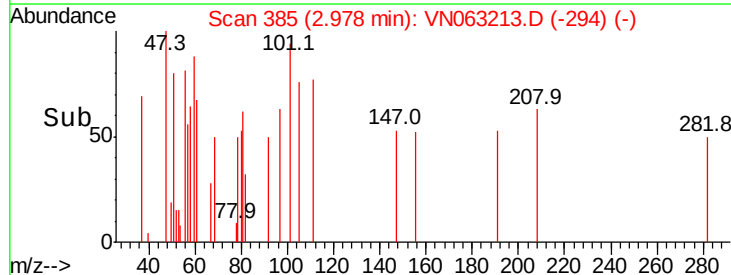
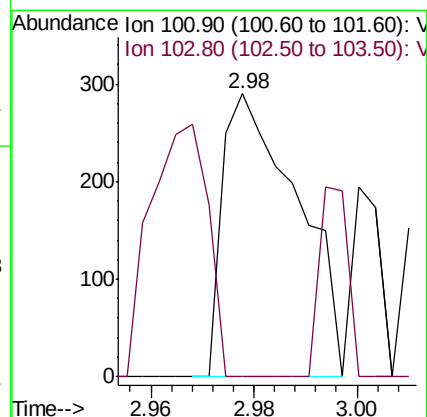
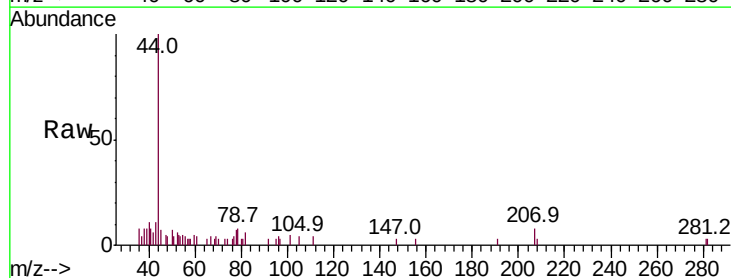
Acq: 3 Sep 2020 12:24

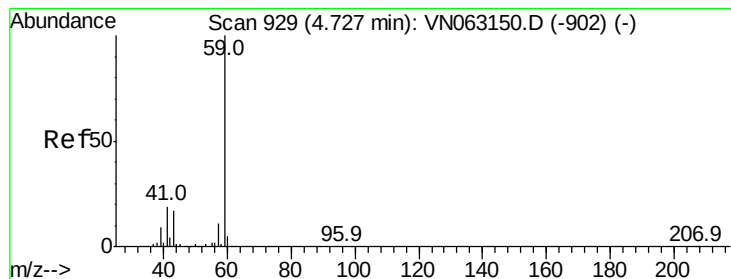
Tgt Ion: 101 Resp: 291

Ion Ratio Lower Upper

101 100

103 0.0 49.7 74.5#





#11

Tert butyl alcohol

Concen: 0.749 ug/l

RT: 4.71 min Scan# 924

Delta R.T. -0.02 min

Lab File: VN063213.D

Acq: 3 Sep 2020 12:24

Instrument :

MSVOA_N

ClientSampled :

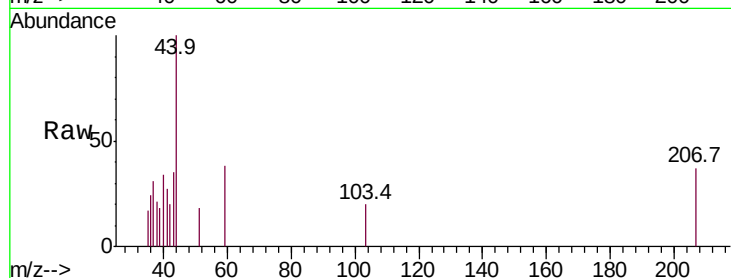
PB131389TB

Tot Ion: 59 Resp: 450

Ion Ratio Lower Upper

59 100

57 22.4 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.71

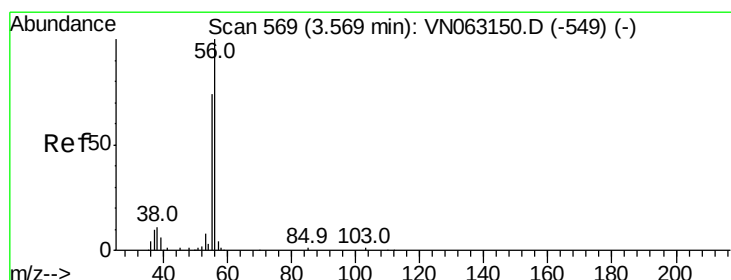
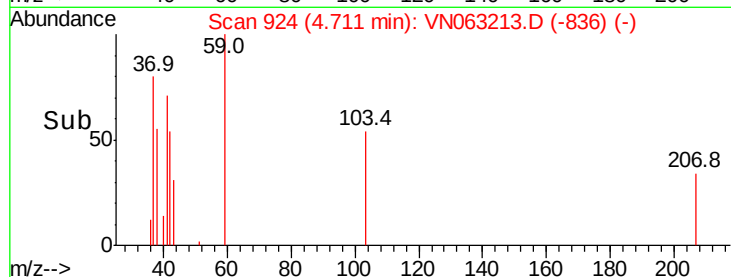
300

200

100

0

Time--> 4.68 4.70 4.72 4.74



#13

Acrolein

Concen: 16.019 ug/l

RT: 3.59 min Scan# 576

Delta R.T. 0.02 min

Lab File: VN063213.D

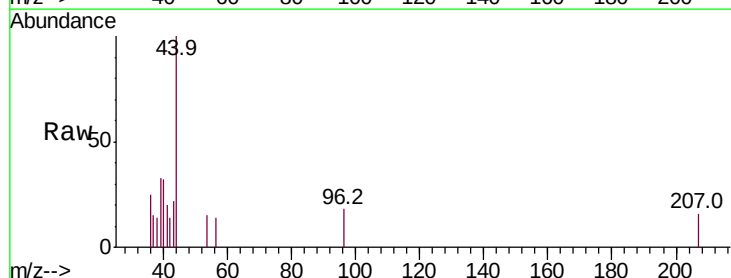
Acq: 3 Sep 2020 12:24

Tgt Ion: 56 Resp: 61

Ion Ratio Lower Upper

56 100

55 109.8 55.4 83.0#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.59

200

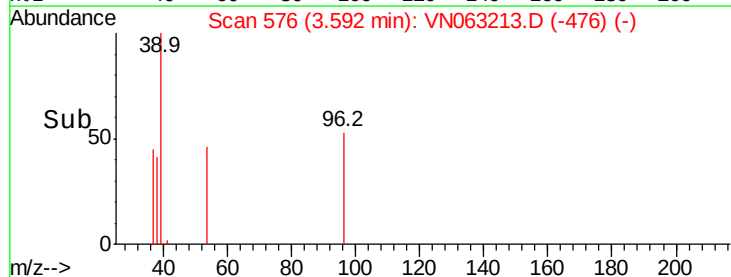
150

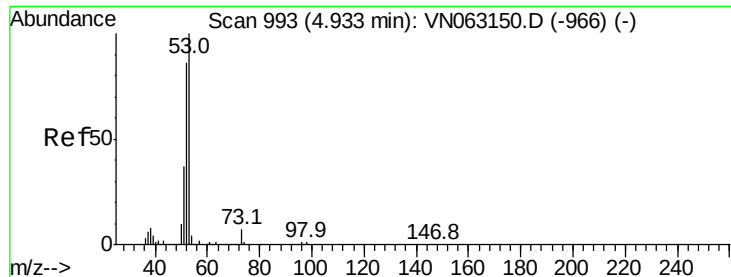
100

50

0

Time--> 3.58 3.59 3.60





#15

Acrylonitrile

Concen: 2.422 ug/l

RT: 4.91 min Scan# 987

Delta R.T. -0.02 min

Lab File: VN063213.D

Acq: 3 Sep 2020 12:24

Instrument :

MSVOA_N

ClientSampled :

PB131389TB

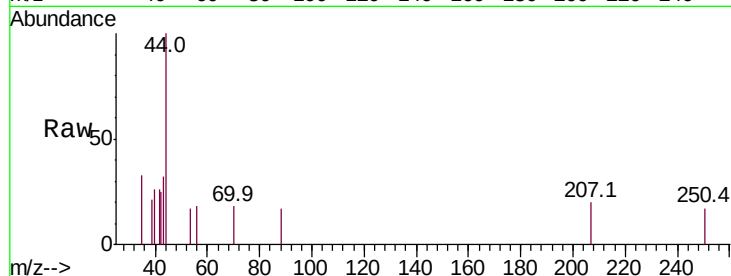
Tot Ion: 53 Resp: 30

Ion Ratio Lower Upper

53 100

52 393.3 67.2 100.8#

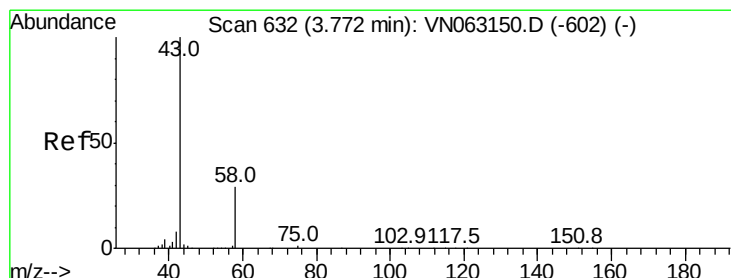
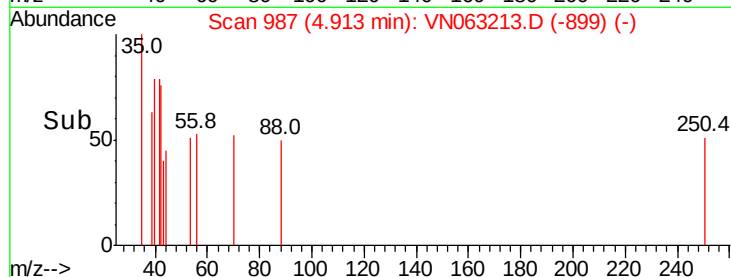
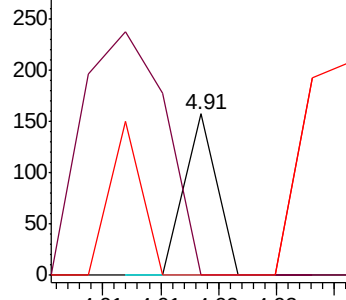
51 96.7 30.2 45.4#



Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0



#16

Acetone

Concen: 3.075 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.01 min

Lab File: VN063213.D

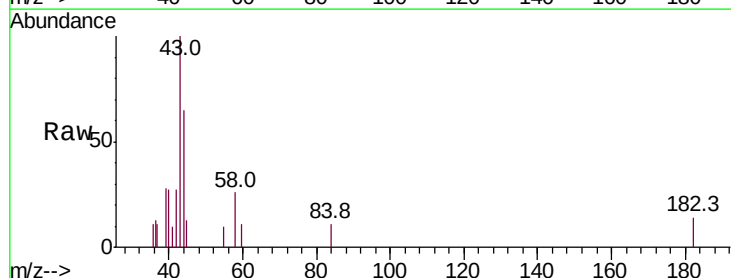
Acq: 3 Sep 2020 12:24

Tgt Ion: 43 Resp: 4279

Ion Ratio Lower Upper

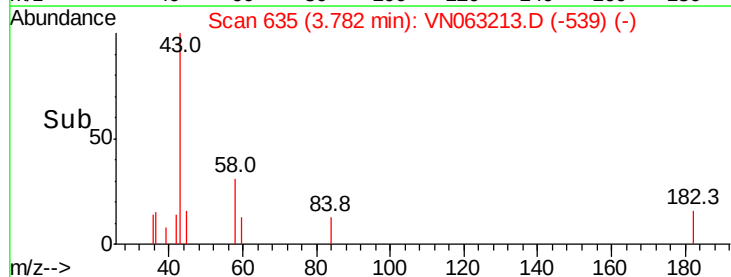
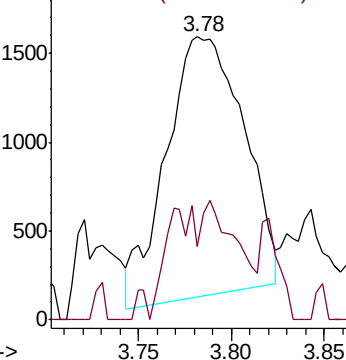
43 100

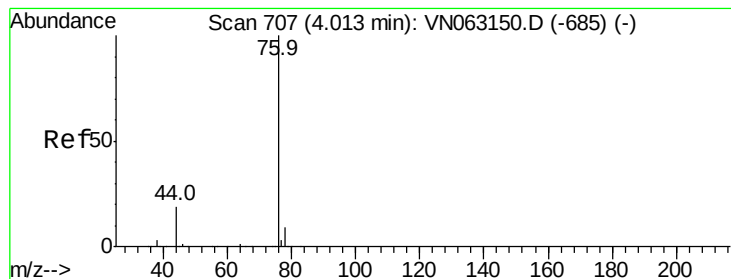
58 31.5 23.1 34.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#17

Carbon Disulfide

Concen: 0.218 ug/l

RT: 4.01 min Scan# 707

Delta R.T. -0.00 min

Lab File: VN063213.D

Acq: 3 Sep 2020 12:24

Instrument :

MSVOA_N

ClientSampled :

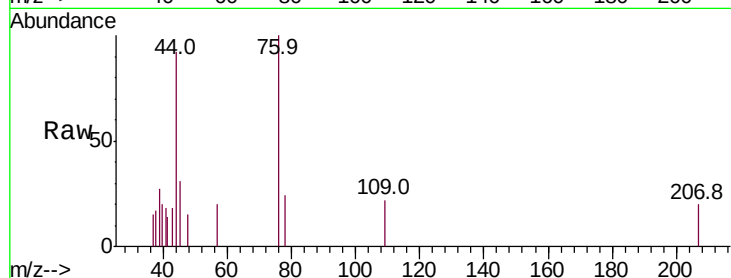
PB131389TB

Tot Ion: 76 Resp: 2130

Ion Ratio Lower Upper

76 100

78 23.5 7.5 11.3#



Abundance Ion 75.90 (75.60 to 76.60): VN063150.D (-685) (-)

Ion 77.90 (77.60 to 78.60): VN063150.D (-685) (-)

4.01

1200

1000

800

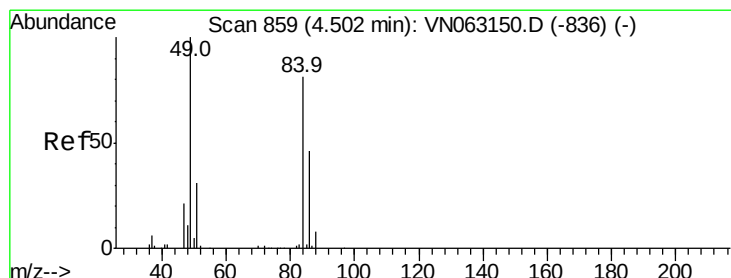
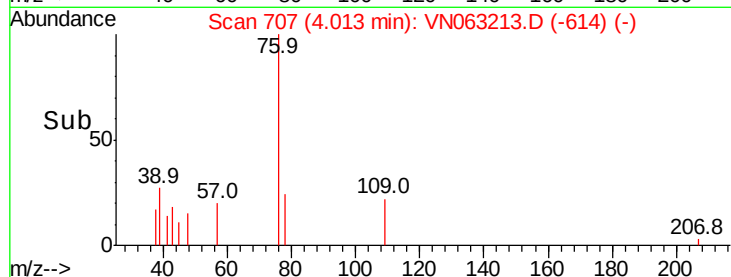
600

400

200

0

Time--> 3.95 4.00 4.05



#20

Methylene Chloride

Concen: 2.558 ug/l

RT: 4.50 min Scan# 859

Delta R.T. 0.00 min

Lab File: VN063213.D

Acq: 3 Sep 2020 12:24

Tgt Ion: 84 Resp: 11833

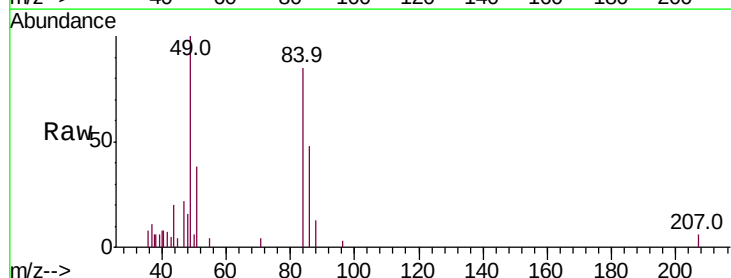
Ion Ratio Lower Upper

84 100

49 117.4 98.4 147.6

51 44.7 30.4 45.6

86 56.4 45.7 68.5



Abundance Ion 83.90 (83.60 to 84.60): VN063150.D (-836) (-)

Ion 48.90 (48.60 to 49.60): VN063150.D (-836) (-)

Ion 50.90 (50.60 to 51.60): VN063150.D (-836) (-)

Ion 85.90 (85.60 to 86.60): VN063150.D (-836) (-)

8000

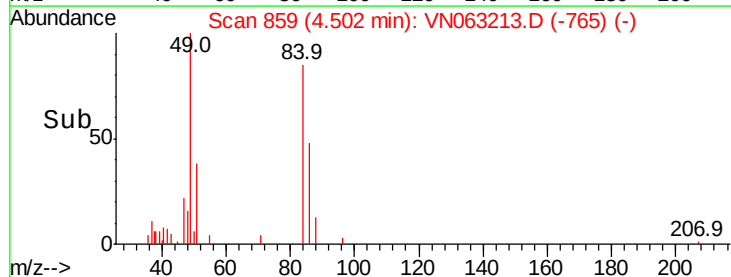
6000

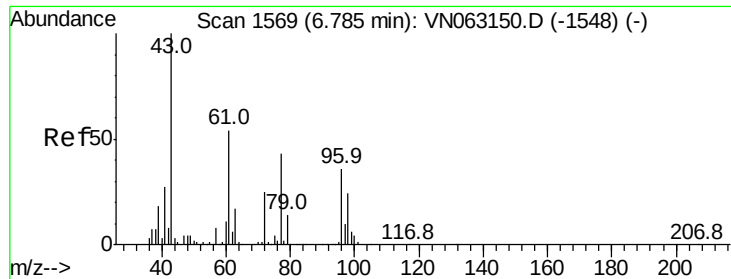
4000

2000

0

Time--> 4.40 4.45 4.50 4.55





#25

2-Butanone

Concen: 0.645 ug/l

RT: 6.79 min Scan# 1572

Delta R.T. 0.01 min

Lab File: VN063213.D

Acq: 3 Sep 2020 12:24

Instrument :

MSVOA_N

ClientSampleId :

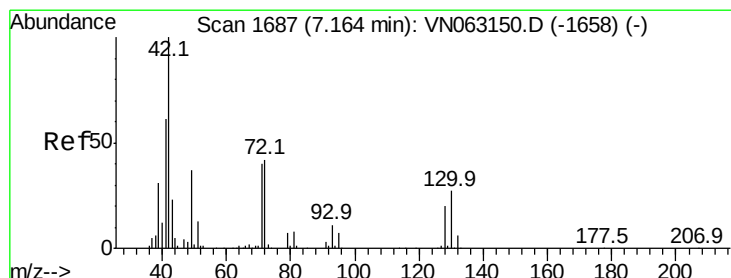
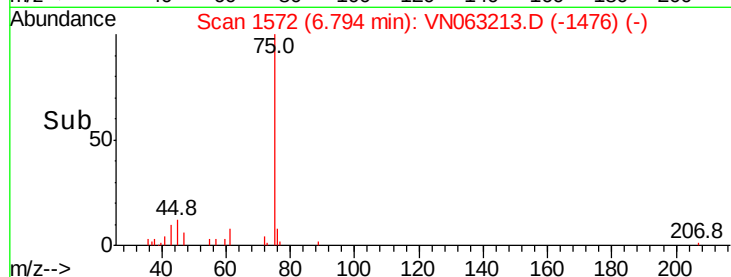
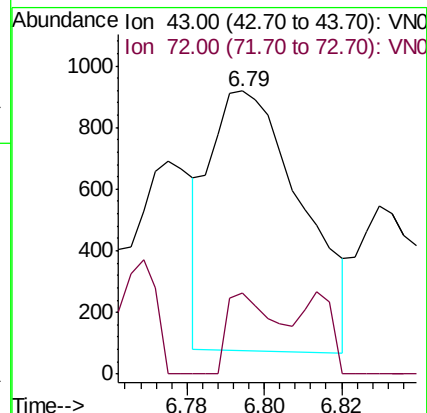
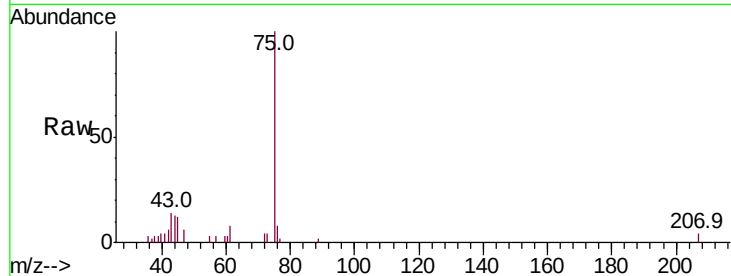
PB131389TB

Tot Ion: 43 Resp: 1390

Ion Ratio Lower Upper

43 100

72 48.3 20.2 30.4#



#29

Tetrahydrofuran

Concen: 0.326 ug/l

RT: 7.16 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VN063213.D

Acq: 3 Sep 2020 12:24

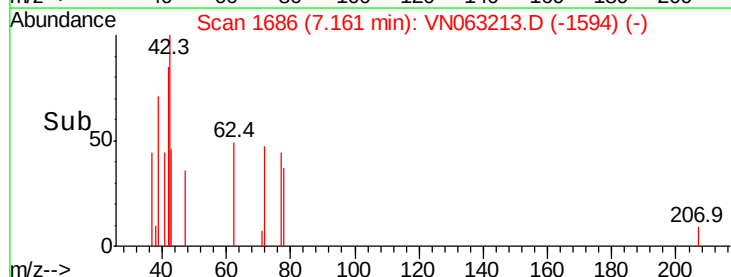
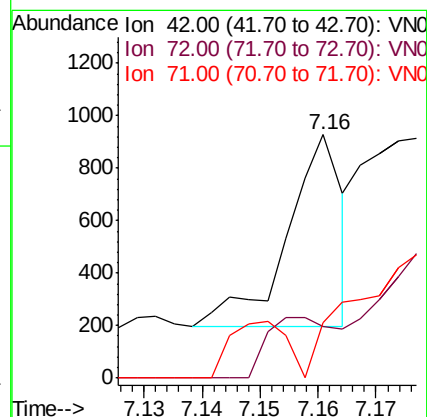
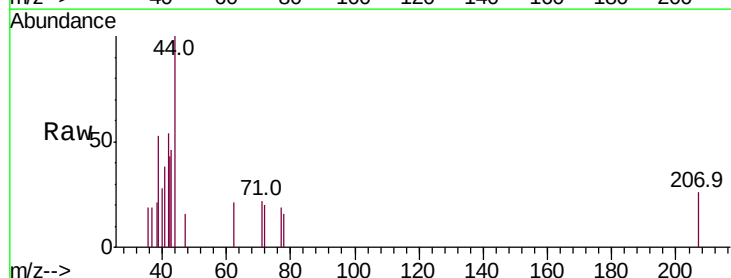
Tgt Ion: 42 Resp: 486

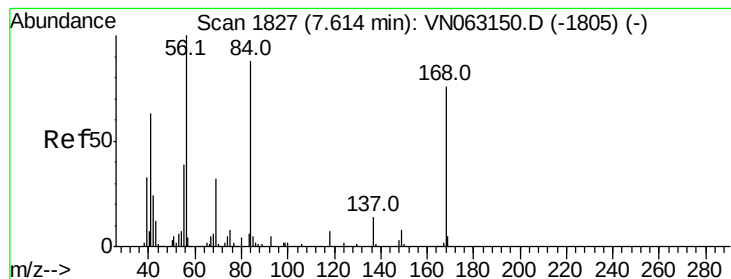
Ion Ratio Lower Upper

42 100

72 40.5 33.9 50.9

71 29.4 31.9 47.9#





#31

Cyclohexane

Concen: Below Cal

RT: 7.62 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN063213.D

Acq: 3 Sep 2020 12:24

Instrument :

MSVOA_N

ClientSampleId :

PB131389TB

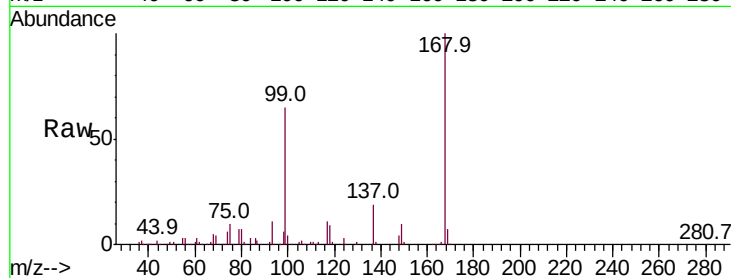
Tot Ion: 56 Resp: 9304

Ion Ratio Lower Upper

56 100

69 118.5 25.4 38.0#

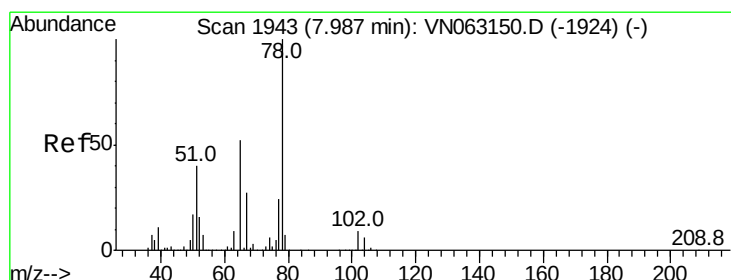
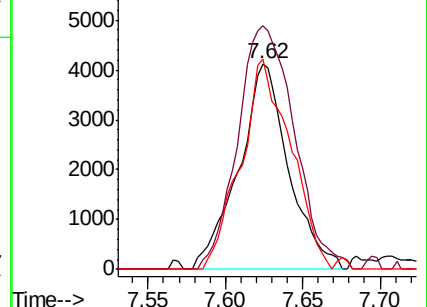
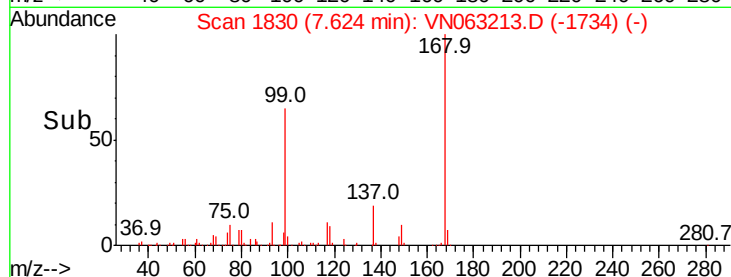
84 102.1 70.2 105.4



Abundance Ion 56.00 (55.70 to 56.70): VN063213.D (-1805) (-)

Ion 69.00 (68.70 to 69.70): VN063213.D (-1805) (-)

Ion 84.00 (83.70 to 84.70): VN063213.D (-1805) (-)



#33

1,2-Dichloroethane-d4

Concen: 48.603 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. -0.00 min

Lab File: VN063213.D

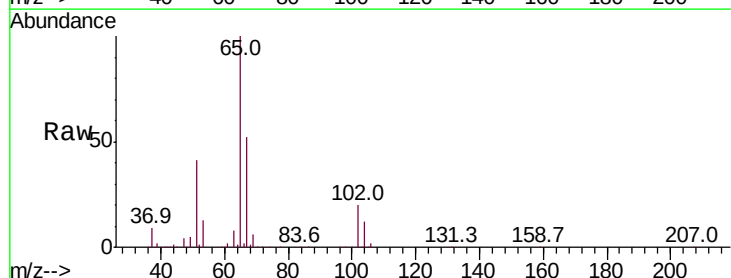
Acq: 3 Sep 2020 12:24

Tgt Ion: 65 Resp: 237890

Ion Ratio Lower Upper

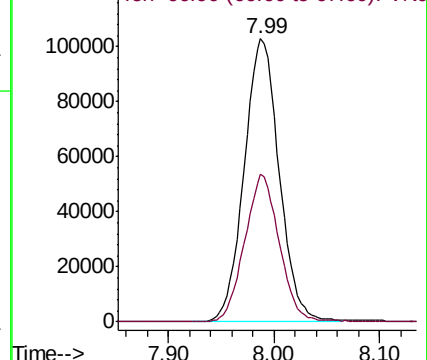
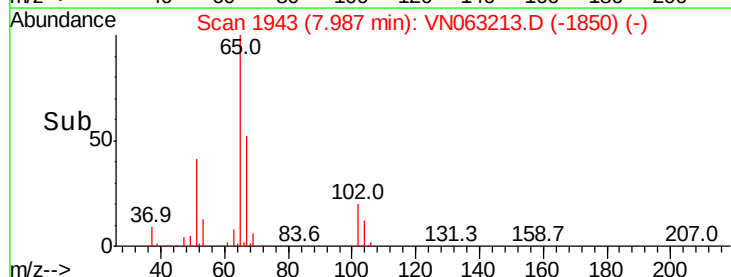
65 100

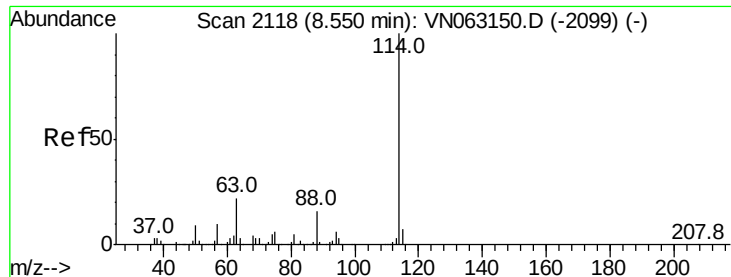
67 51.1 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VN063213.D (-1850) (-)

Ion 66.90 (66.60 to 67.60): VN063213.D (-1850) (-)

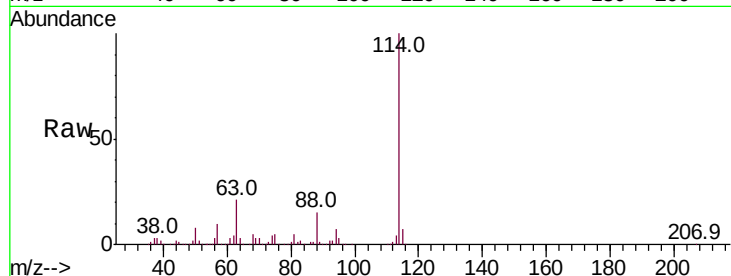




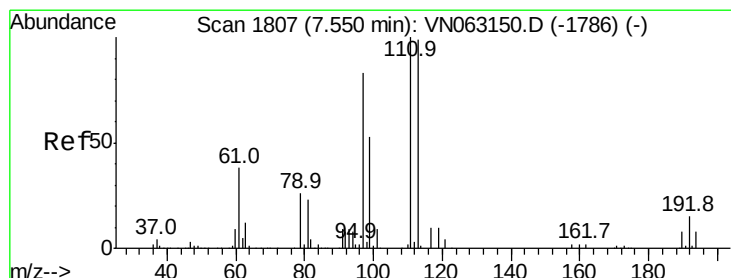
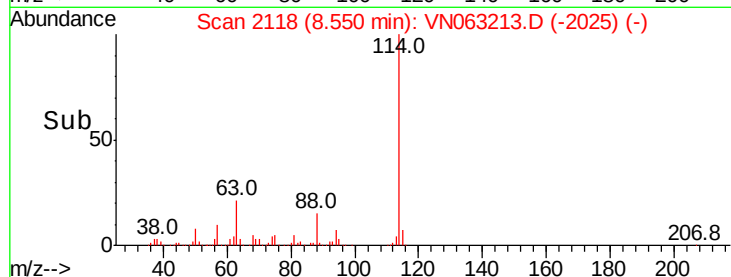
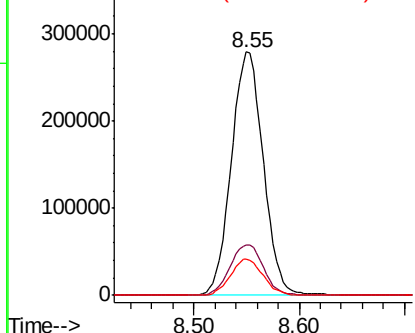
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN063213.D
 Acq: 3 Sep 2020 12:24

Instrument :
 MSVOA_N
 ClientSampleId :
 PB131389TB

Tot Ion:114 Resp: 587605
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 43.0
 88 15.0 0.0 31.6

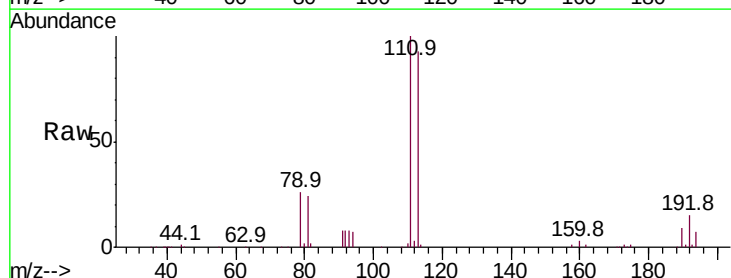


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

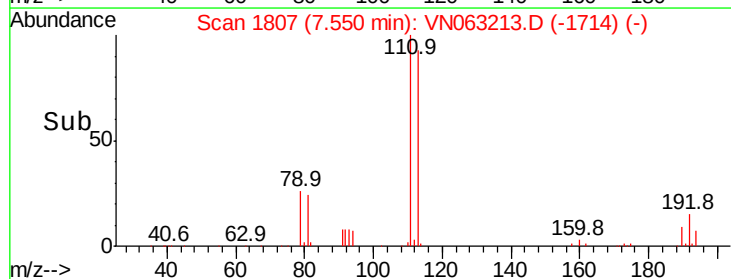
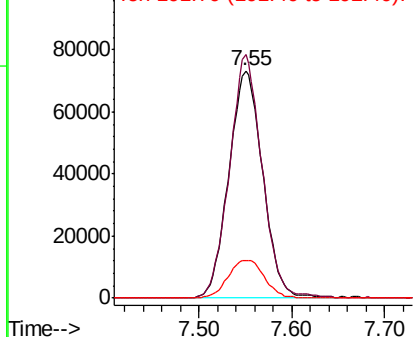


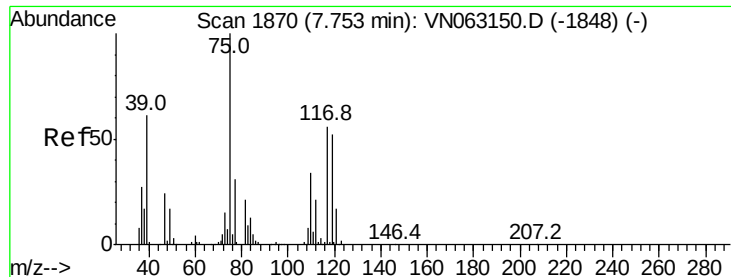
#35
 Dibromofluoromethane
 Concen: 49.307 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. -0.00 min
 Lab File: VN063213.D
 Acq: 3 Sep 2020 12:24

Tgt Ion:113 Resp: 185877
 Ion Ratio Lower Upper
 113 100
 111 103.0 80.7 121.1
 192 17.9 12.6 19.0



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: 5.083 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.13 min

Lab File: VN063213.D

Acq: 3 Sep 2020 12:24

Instrument :

MSVOA_N

ClientSampleId :

PB131389TB

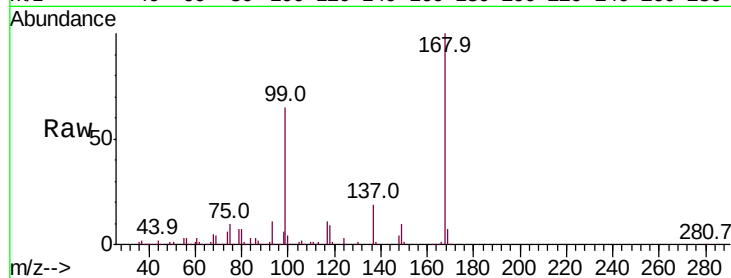
Tot Ion: 75 Resp: 28711

Ion Ratio Lower Upper

75 100

110 5.0 16.6 49.8#

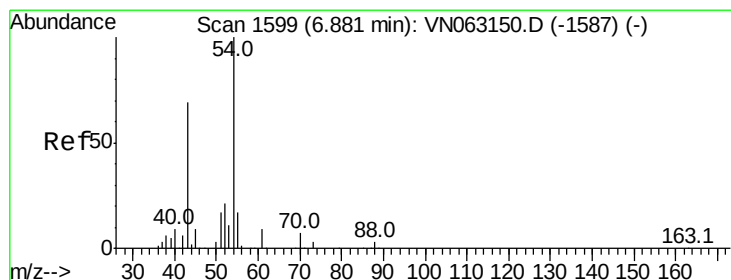
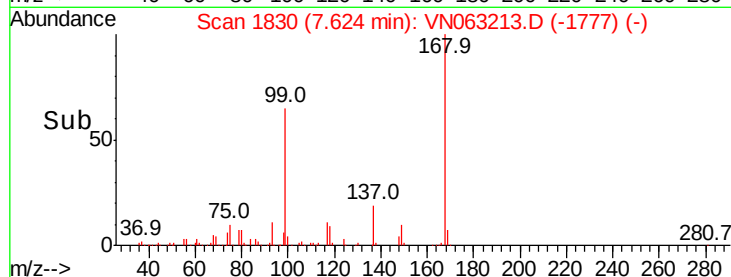
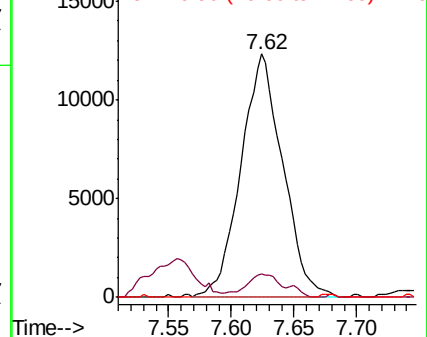
77 0.0 25.4 38.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#37

Ethyl Acetate

Concen: 0.503 ug/l

RT: 6.90 min Scan# 1605

Delta R.T. 0.02 min

Lab File: VN063213.D

Acq: 3 Sep 2020 12:24

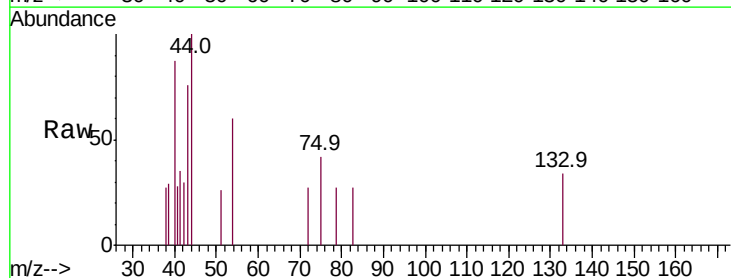
Tgt Ion: 43 Resp: 660

Ion Ratio Lower Upper

43 100

61 0.0 10.2 15.4#

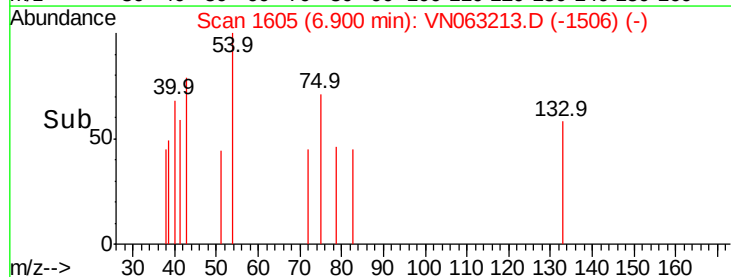
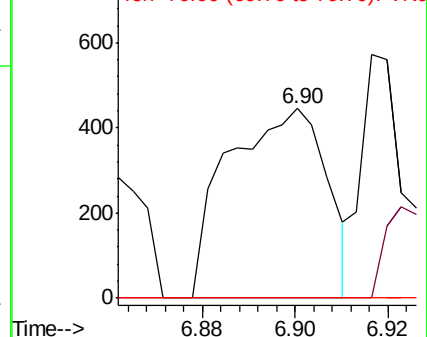
70 0.0 3.0 4.6#

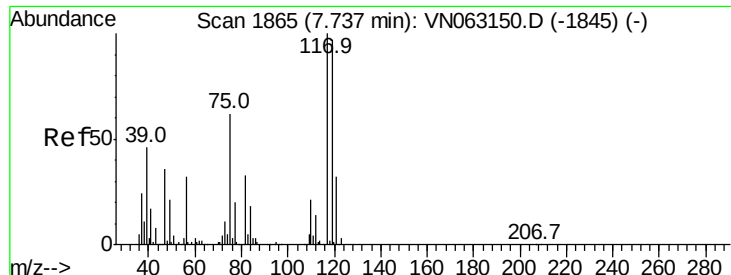


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 70.00 (69.70 to 70.70): VN0





#38

Carbon Tetrachloride

Concen: 5.854 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN063213.D

Acq: 3 Sep 2020 12:24

Instrument :

MSVOA_N

ClientSampleId :

PB131389TB

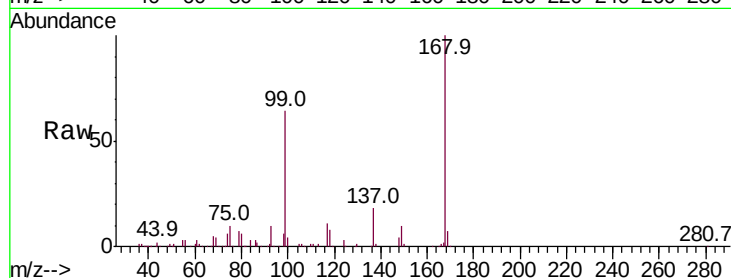
Tot Ion:117 Resp: 33537

Ion Ratio Lower Upper

117 100

119 4.1 77.2 115.8#

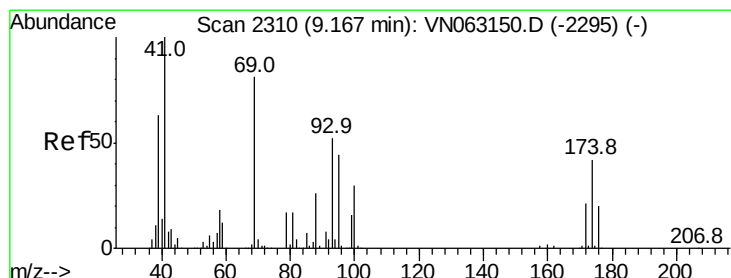
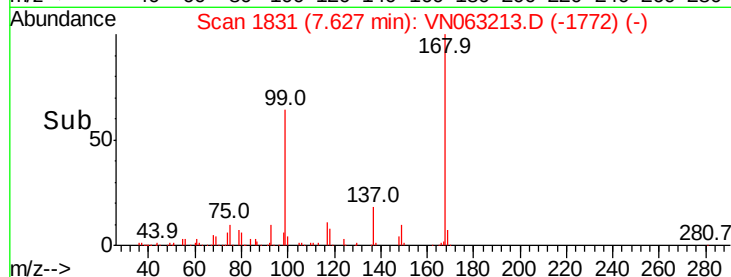
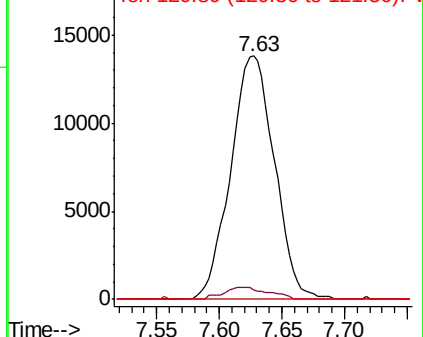
121 0.0 25.6 38.4#



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



#49

1,4-Dioxane

Concen: 5.900 ug/l

RT: 9.17 min Scan# 2312

Delta R.T. 0.01 min

Lab File: VN063213.D

Acq: 3 Sep 2020 12:24

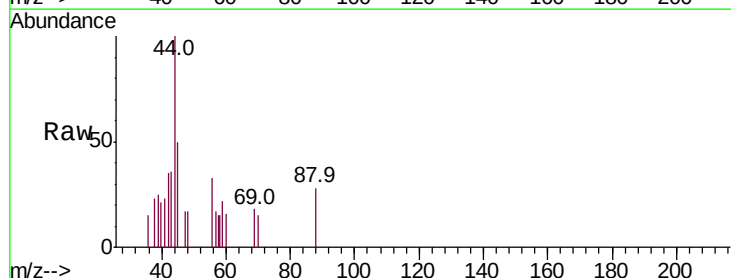
Tgt Ion: 88 Resp: 379

Ion Ratio Lower Upper

88 100

43 13.5 28.6 42.8#

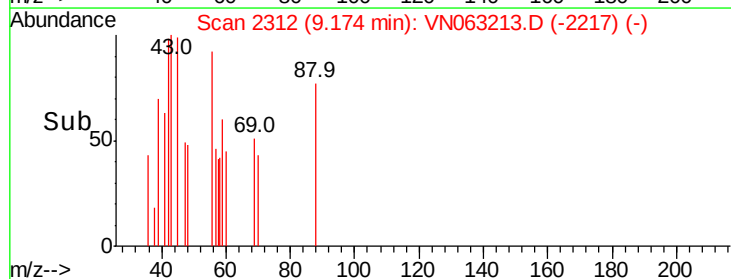
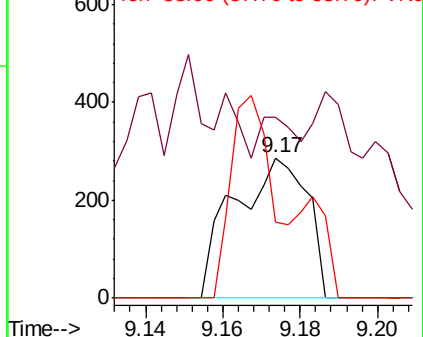
58 81.8 53.2 79.8#

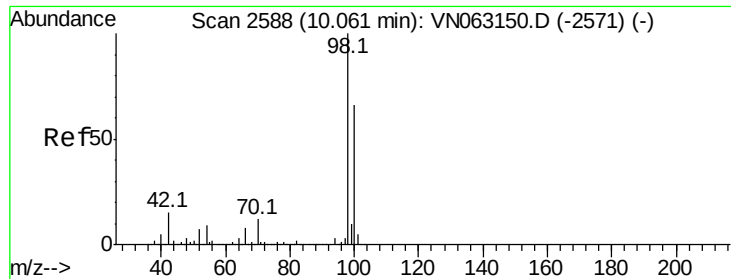


Abundance Ion 88.00 (87.70 to 88.70): V

Ion 43.00 (42.70 to 43.70): V

Ion 58.00 (57.70 to 58.70): V





#50

Toluene-d8

Concen: 50.210 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. -0.00 min

Lab File: VN063213.D

Acq: 3 Sep 2020 12:24

Instrument :

MSVOA_N

ClientSampleId :

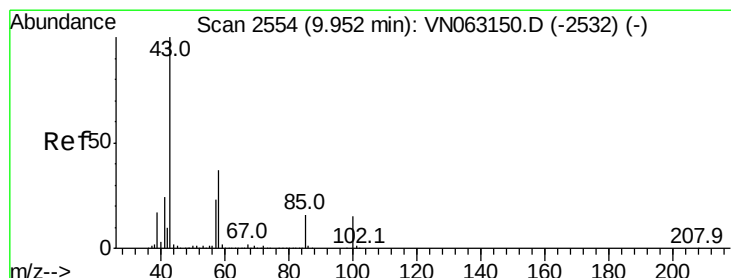
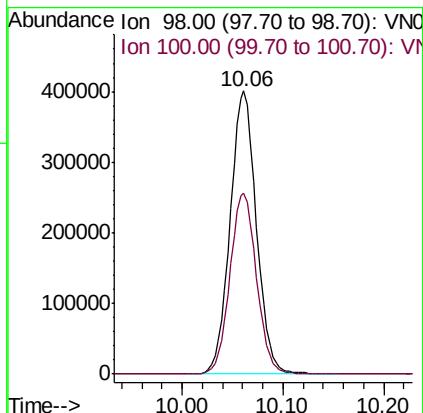
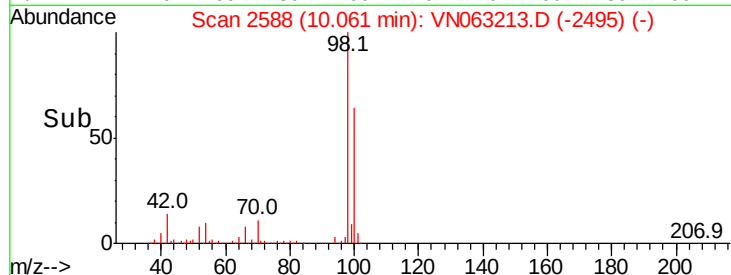
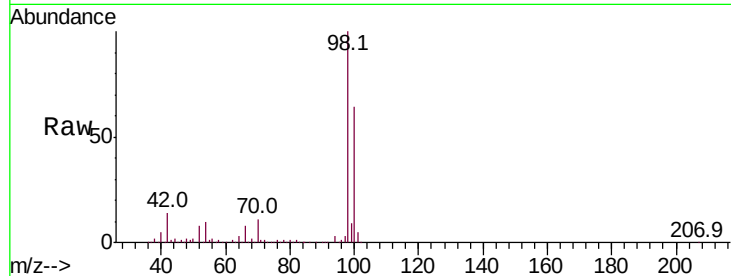
PB131389TB

Tot Ion: 98 Resp: 728540

Ion Ratio Lower Upper

98 100

100 64.5 52.0 78.0



#51

4-Methyl-2-Pentanone

Concen: 0.525 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN063213.D

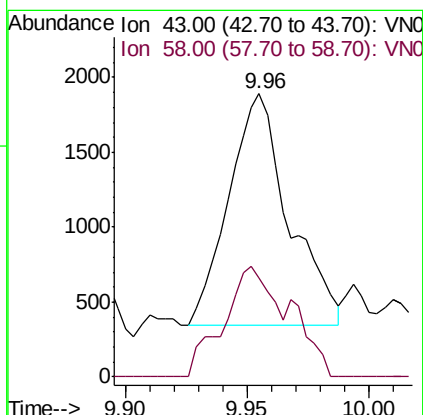
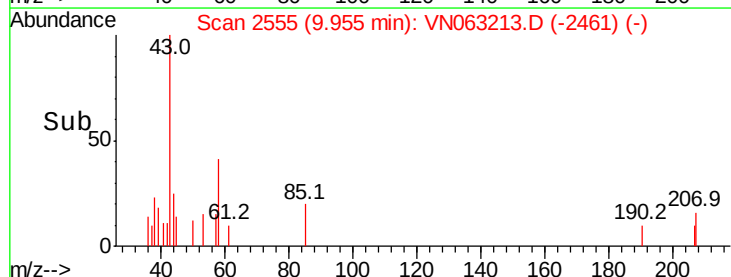
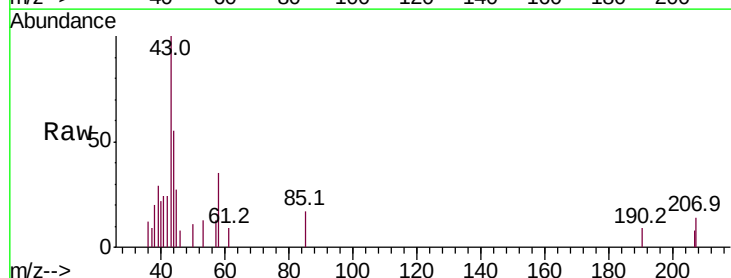
Acq: 3 Sep 2020 12:24

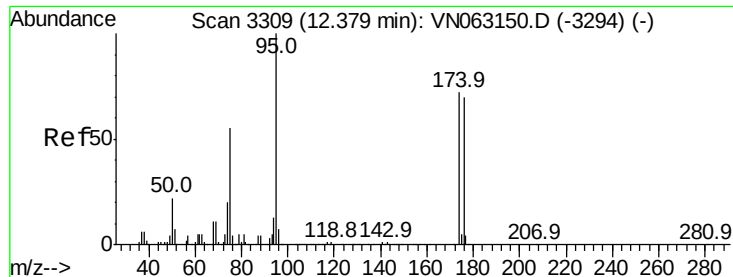
Tgt Ion: 43 Resp: 2627

Ion Ratio Lower Upper

43 100

58 40.2 29.2 43.8





#62

4-Bromofluorobenzene

Concen: 49.635 ug/l

RT: 12.38 min Scan# 3309

Delta R.T. -0.00 min

Lab File: VN063213.D

Acq: 3 Sep 2020 12:24

Instrument :

MSVOA_N

ClientSampleId :

PB131389TB

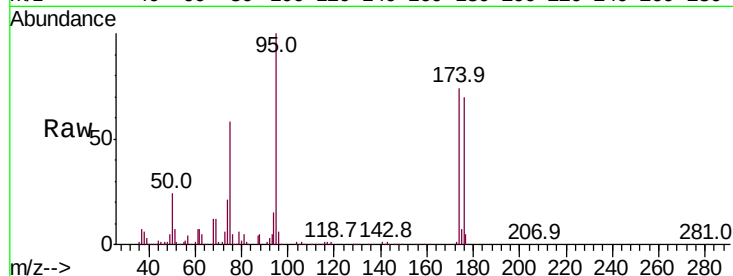
Tot Ion: 95 Resp: 251928

Ion Ratio Lower Upper

95 100

174 74.9 0.0 143.8

176 71.9 0.0 138.4



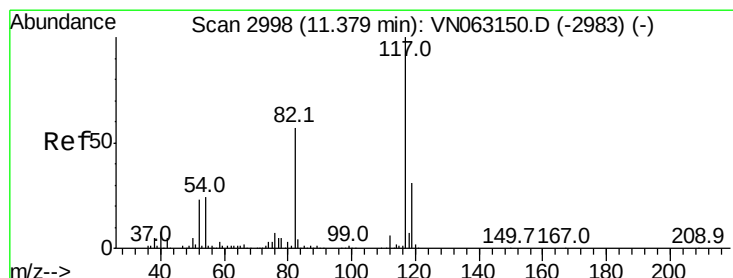
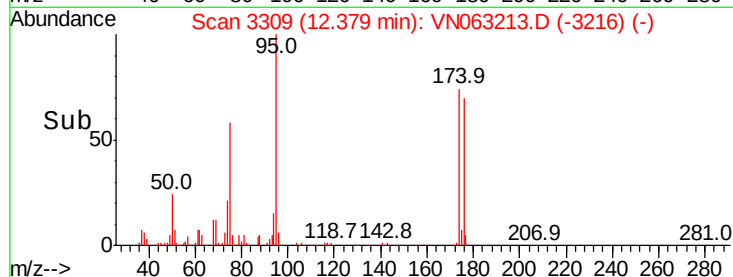
Abundance Ion 94.90 (94.60 to 95.60): VN063213.D (-3294) (-)

Ion 173.80 (173.50 to 174.50): VN063213.D (-3294) (-)

Ion 175.80 (175.50 to 176.50): VN063213.D (-3294) (-)

12.38

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. -0.00 min

Lab File: VN063213.D

Acq: 3 Sep 2020 12:24

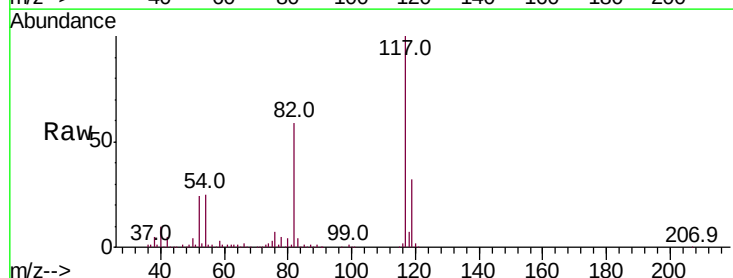
Tgt Ion: 117 Resp: 564921

Ion Ratio Lower Upper

117 100

82 58.8 45.4 68.0

119 32.4 24.6 37.0



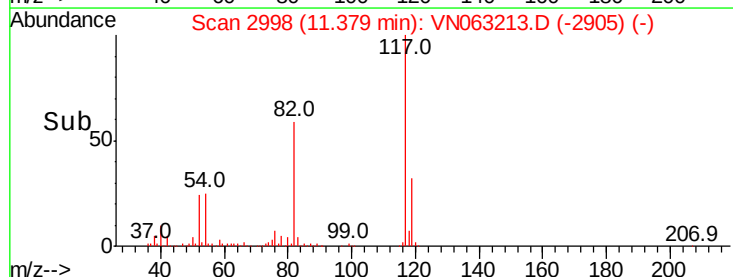
Abundance Ion 116.90 (116.60 to 117.60): VN063213.D (-2983) (-)

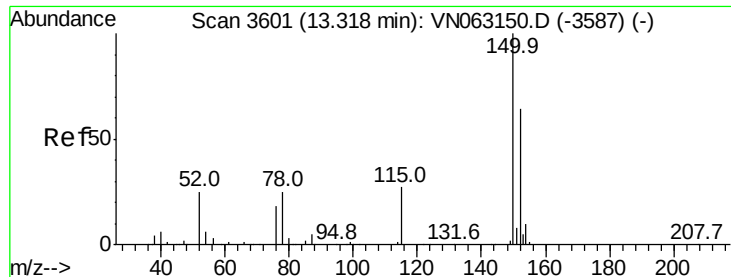
Ion 82.00 (81.70 to 82.70): VN063213.D (-2983) (-)

Ion 118.90 (118.60 to 119.60): VN063213.D (-2983) (-)

11.38

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3602

Delta R.T. 0.00 min

Lab File: VN063213.D

Acq: 3 Sep 2020 12:24

Instrument :

MSVOA_N

ClientSampled :

PB131389TB

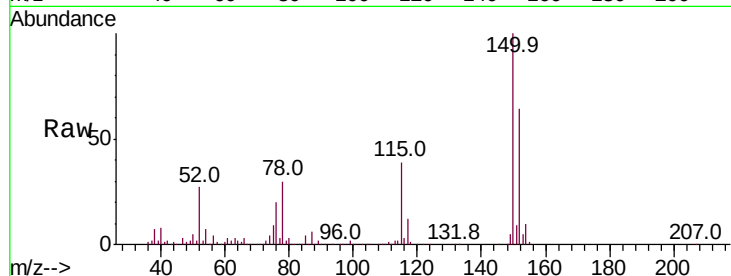
Tot Ion:152 Resp: 220147

Ion Ratio Lower Upper

152 100

115 64.5 32.0 96.2

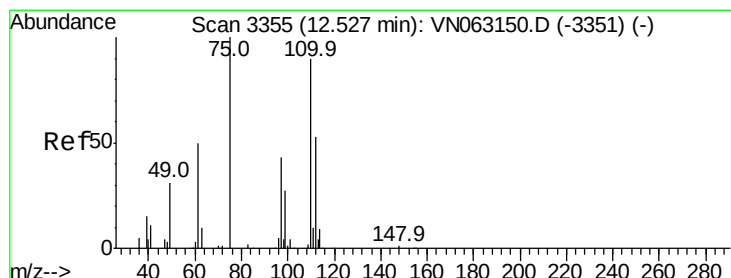
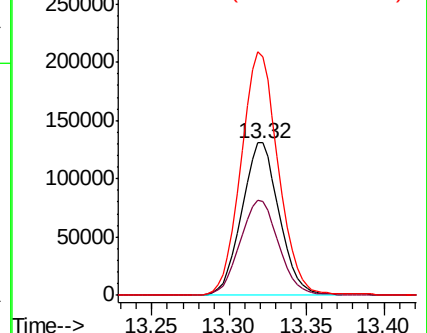
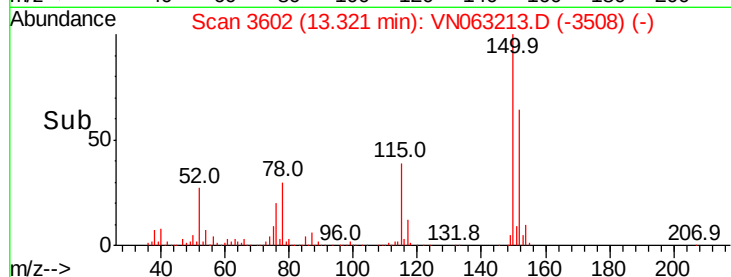
150 159.8 0.0 353.0



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



#76

1,2,3-Trichloropropane

Concen: 33.754 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063213.D

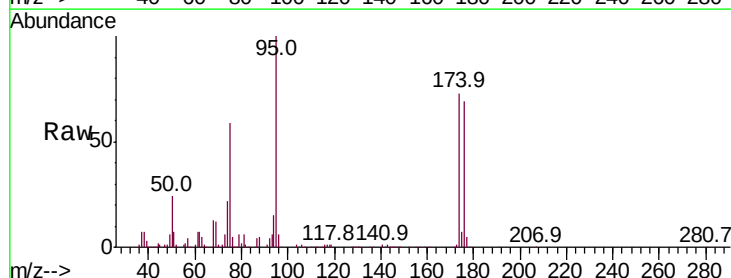
Acq: 3 Sep 2020 12:24

Tgt Ion: 75 Resp: 146001

Ion Ratio Lower Upper

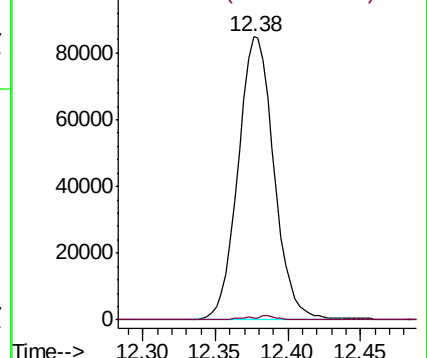
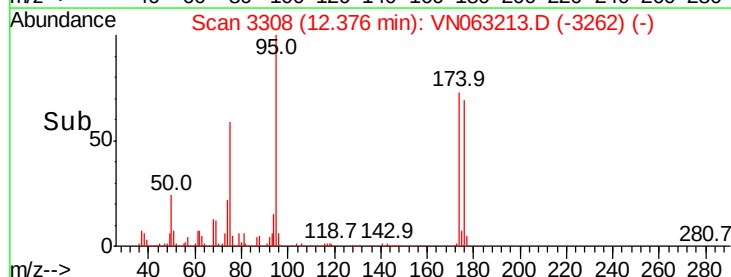
75 100

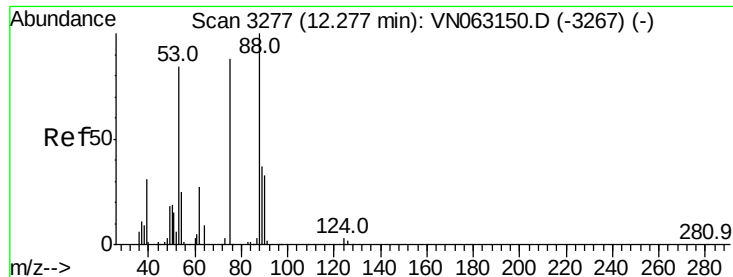
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

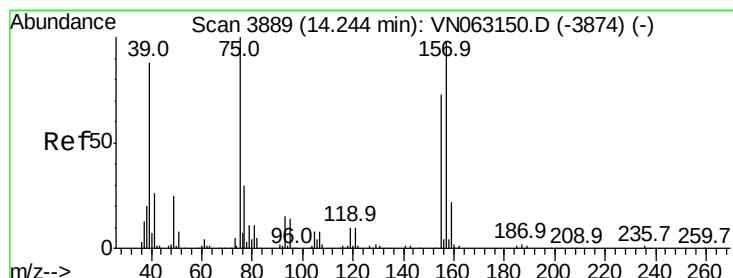
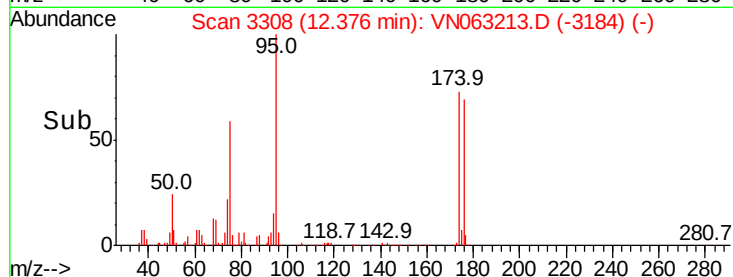
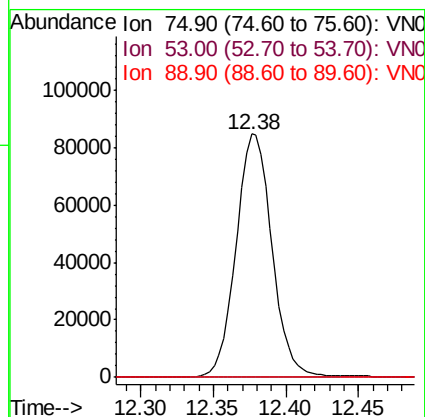
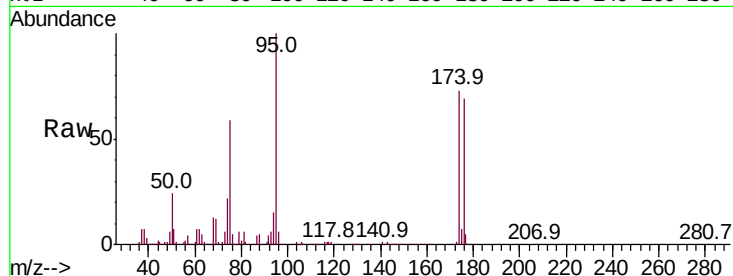




#81
trans-1,4-Dichloro-2-butene
Concen: 81.583 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.10 min
Lab File: VN063213.D
Acq: 3 Sep 2020 12:24

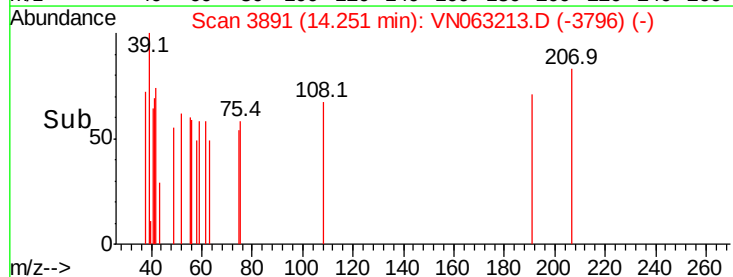
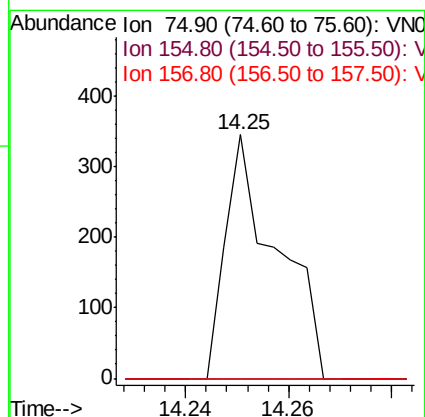
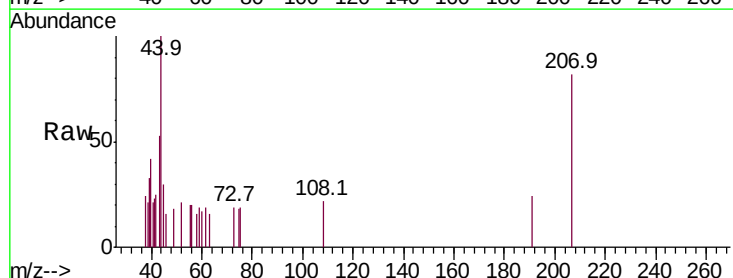
Instrument :
MSVOA_N
ClientSampled :
PB131389TB

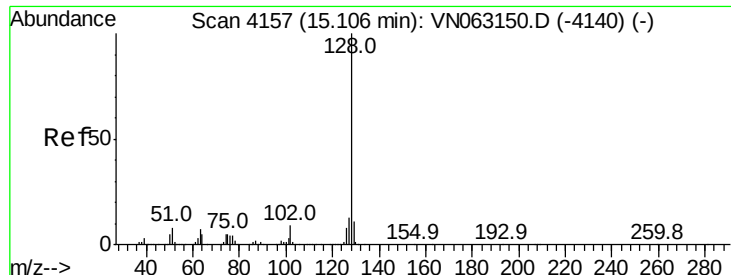
Tot Ion: 75 Resp: 146001
Ion Ratio Lower Upper
75 100
53 0.0 78.7 118.1#
89 0.0 35.3 52.9#



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.221 ug/l
RT: 14.25 min Scan# 3891
Delta R.T. 0.01 min
Lab File: VN063213.D
Acq: 3 Sep 2020 12:24

Tgt Ion: 75 Resp: 237
Ion Ratio Lower Upper
75 100
155 0.0 36.1 108.5#
157 0.0 48.4 145.0#





#95

Naphthalene

Concen: 0.300 ug/l

RT: 15.11 min Scan# 4159

Delta R.T. 0.01 min

Lab File: VN063213.D

Acq: 3 Sep 2020 12:24

Instrument :

MSVOA_N

ClientSampleId :

PB131389TB

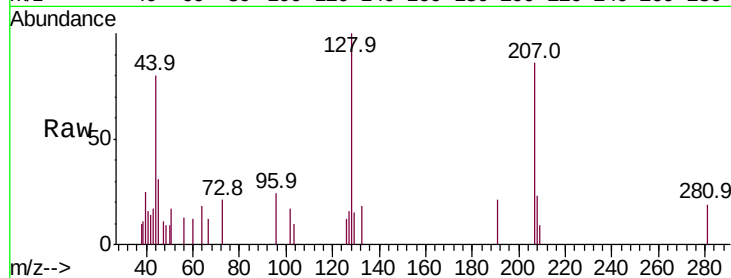
Tot Ion:128 Resp: 3807

Ion Ratio Lower Upper

128 100

127 9.9 10.5 15.7#

129 11.2 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

