

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101520\
 Data File : VN064147.D
 Acq On : 15 Oct 2020 16:43
 Operator : JC/MD
 Sample : L4408-10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WP-1

Quant Time: Oct 16 02:25:32 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101420W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 15 01:16:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	298432	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	570941	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	589899	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	216654	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	235565	55.42	ug/l	0.00
Spiked Amount			Recovery	=	110.84%	
35) Dibromofluoromethane	7.55	113	194262	49.16	ug/l	0.00
Spiked Amount			Recovery	=	98.32%	
50) Toluene-d8	10.06	98	733064	49.16	ug/l	0.00
Spiked Amount			Recovery	=	98.32%	
62) 4-Bromofluorobenzene	12.38	95	257486	50.24	ug/l	0.00
Spiked Amount			Recovery	=	100.48%	

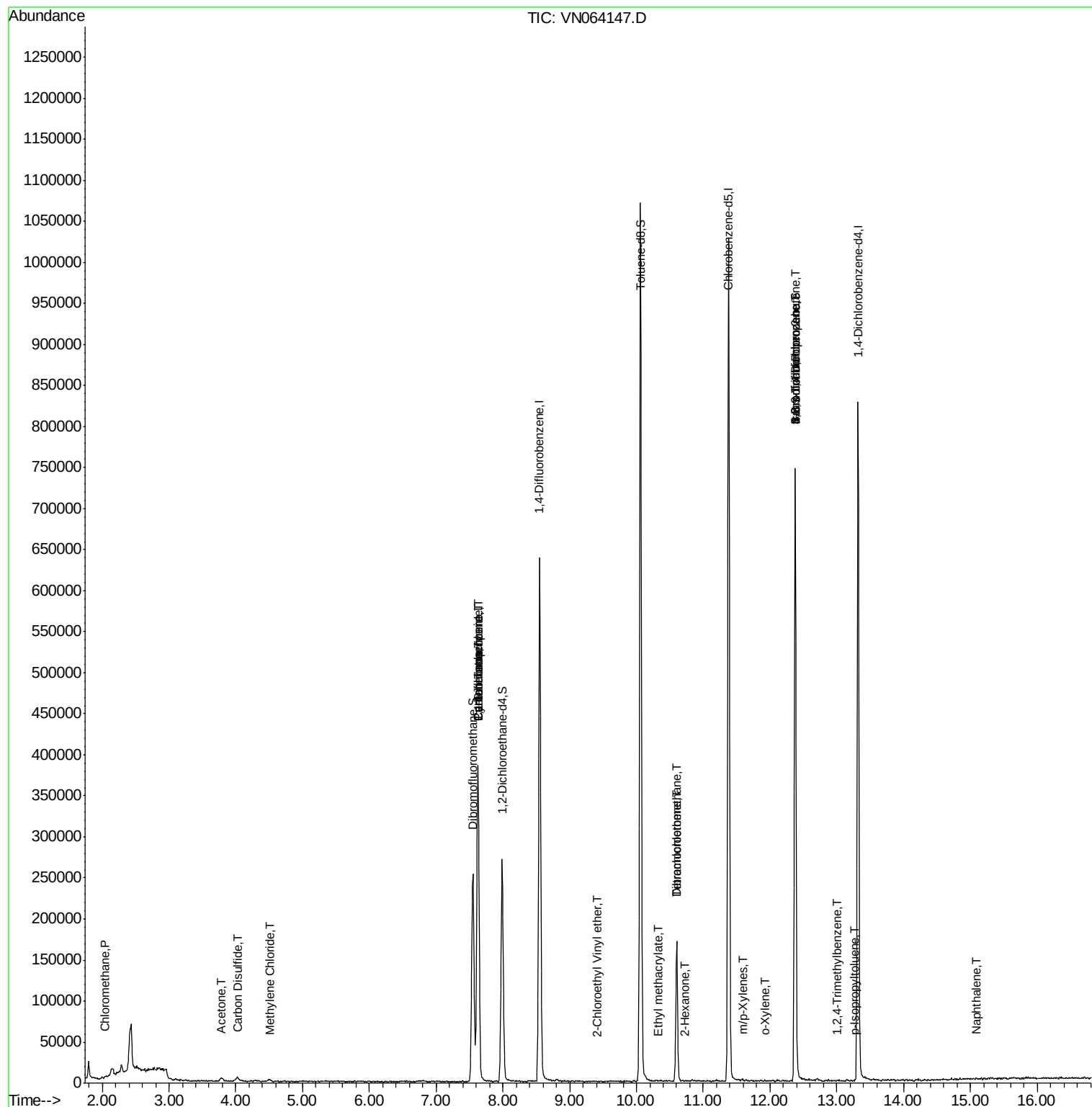
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	1973	0.563	ug/l #	85
16) Acetone	3.79	43	6104	4.842	ug/l	92
17) Carbon Disulfide	4.01	76	4825	0.568	ug/l #	92
20) Methylene Chloride	4.51	84	1003	0.257	ug/l #	35
31) Cyclohexane	7.63	56	7174	1.527	ug/l #	9
36) 1,1-Dichloropropene	7.63	75	24563	4.463	ug/l #	47
38) Carbon Tetrachloride	7.62	117	31597	5.340	ug/l #	16
56) Ethyl methacrylate	10.33	69	62	2.308	ug/l #	1
58) 2-Chloroethyl Vinyl ether	9.41	63	30	12.228	ug/l #	48
59) 2-Hexanone	10.72	43	620	7.000	ug/l #	24
60) Dibromochloromethane	10.60	129	35500	7.450	ug/l #	11
64) Tetrachloroethene	10.60	164	39272	8.830	ug/l	97
68) m/p-Xylenes	11.59	106	192	2.214	ug/l #	1
69) o-Xylene	11.92	106	33	1.587	ug/l #	1
71) Bromoform	12.37	173	786	2.423	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	133277	26.221	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	133277	80.110	ug/l #	12
84) 1,2,4-Trimethylbenzene	13.01	105	391	0.214	ug/l #	31
86) p-Isopropyltoluene	13.26	119	189	0.677	ug/l #	50
95) Naphthalene	15.10	128	205	3.815	ug/l #	70

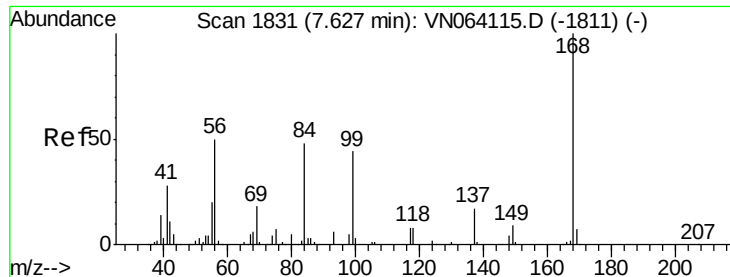
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN064147.D

Acq: 15 Oct 2020 16:43

Instrument :

MSVOA_N

ClientSampleId :

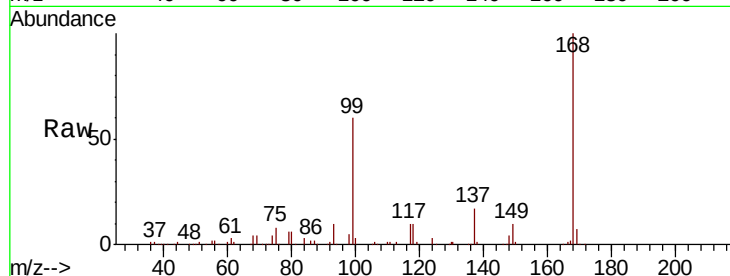
WP-1

Tot Ion:168 Resp: 298432

Ion Ratio Lower Upper

168 100

99 59.7 43.6 65.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

150000

100000

50000

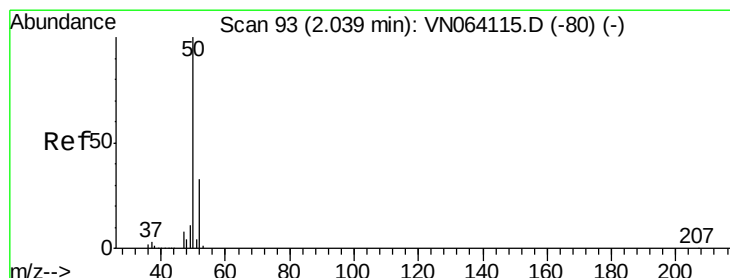
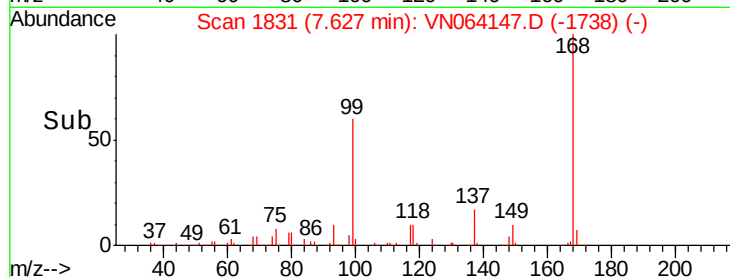
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Time-->

7.50

7.60

7.70



#3

Chloromethane

Concen: 0.563 ug/l

RT: 2.04 min Scan# 92

Delta R.T. -0.00 min

Lab File: VN064147.D

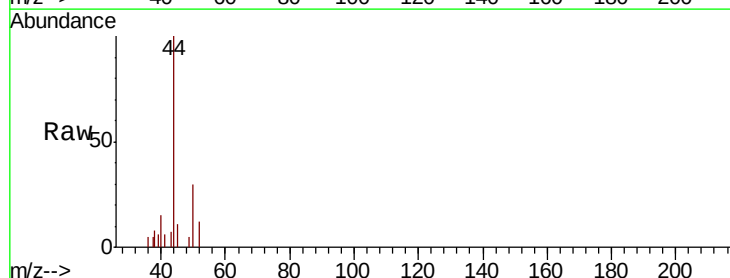
Acq: 15 Oct 2020 16:43

Tgt Ion: 50 Resp: 1973

Ion Ratio Lower Upper

50 100

52 40.8 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.04

1000

500

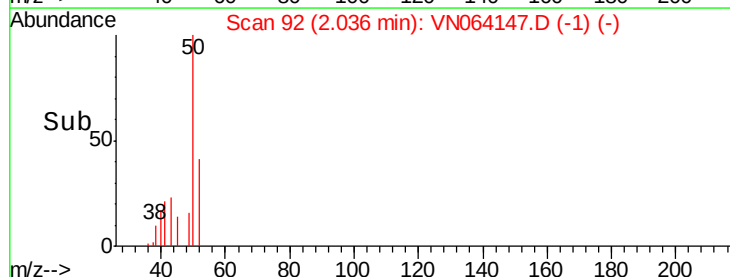
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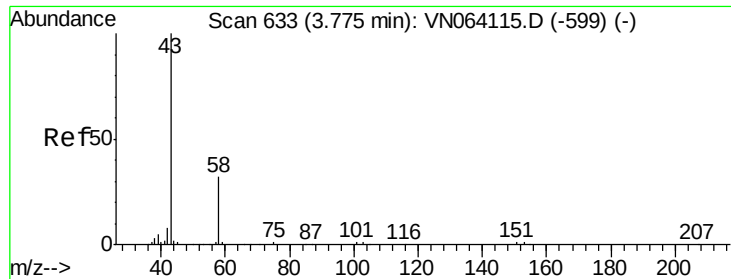
Time-->

2.00

2.05

2.10





#16

Acetone

Concen: 4.842 ug/l

RT: 3.79 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN064147.D

Acq: 15 Oct 2020 16:43

Instrument :

MSVOA_N

ClientSampled :

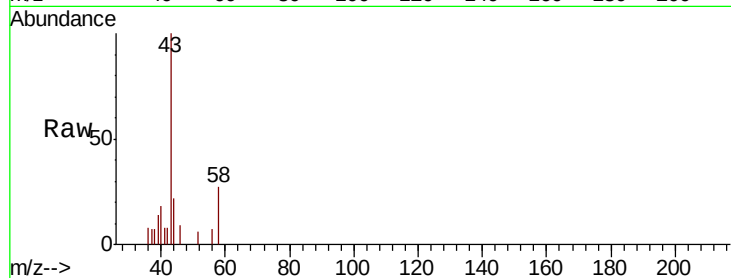
WP-1

Tot Ion: 43 Resp: 6104

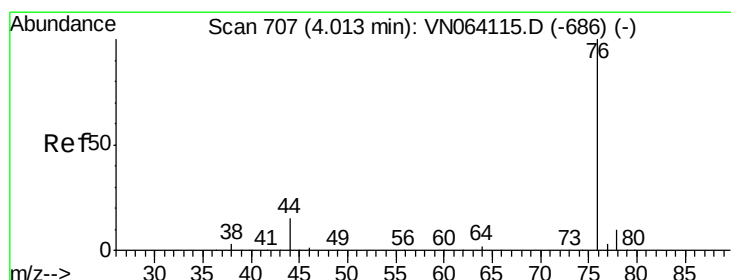
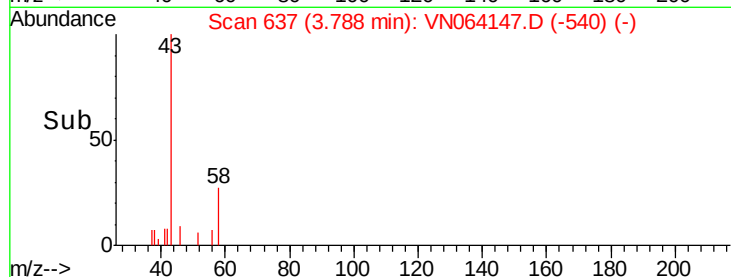
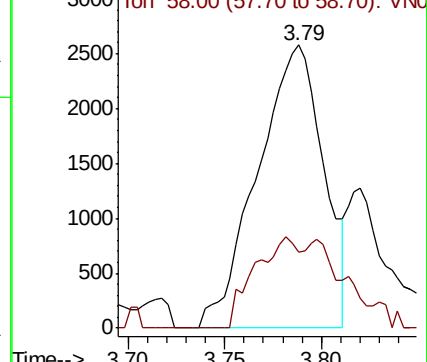
Ion Ratio Lower Upper

43 100

58 26.9 25.2 37.8



Abundance Ion 43.00 (42.70 to 43.70): VN064147.D (-599) (-)



#17

Carbon Disulfide

Concen: 0.568 ug/l

RT: 4.01 min Scan# 707

Delta R.T. 0.00 min

Lab File: VN064147.D

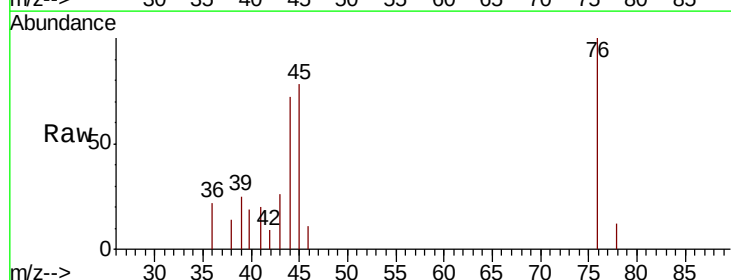
Acq: 15 Oct 2020 16:43

Tgt Ion: 76 Resp: 4825

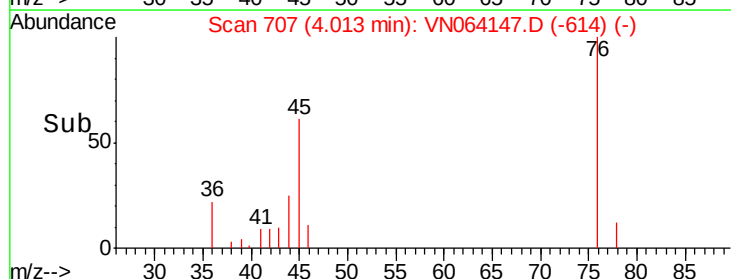
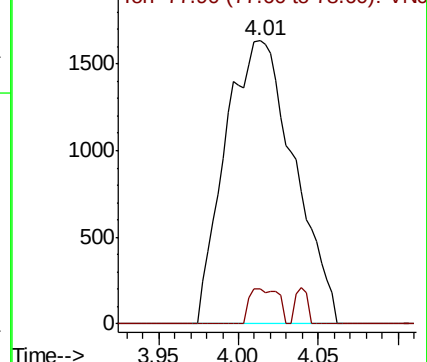
Ion Ratio Lower Upper

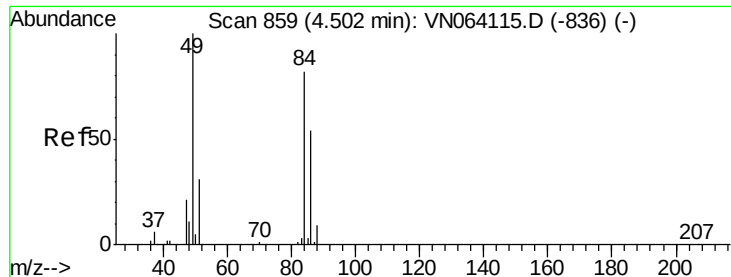
76 100

78 12.5 7.6 11.4#



Abundance Ion 75.90 (75.60 to 76.60): VN064147.D (-614) (-)

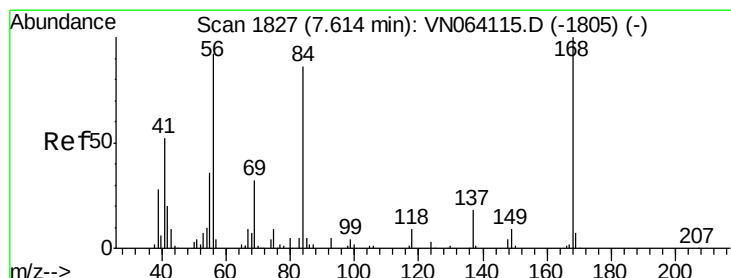
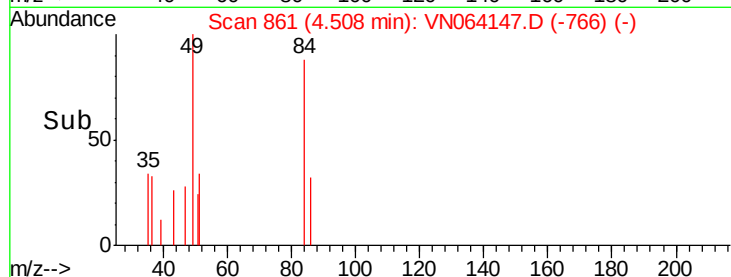
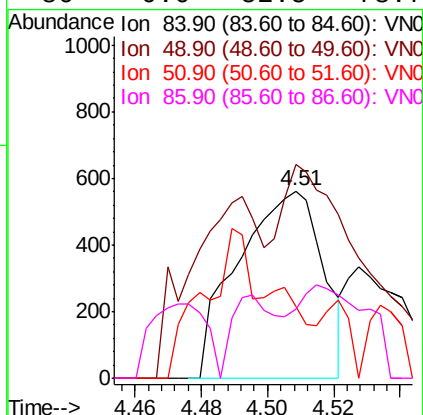
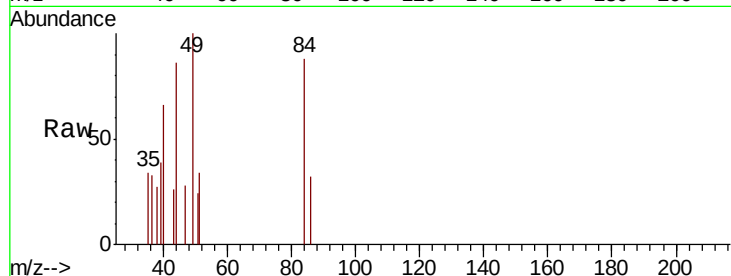




#20
Methylene Chloride
Concen: 0.257 ug/l
RT: 4.51 min Scan# 861
Delta R.T. 0.01 min
Lab File: VN064147.D
Acq: 15 Oct 2020 16:43

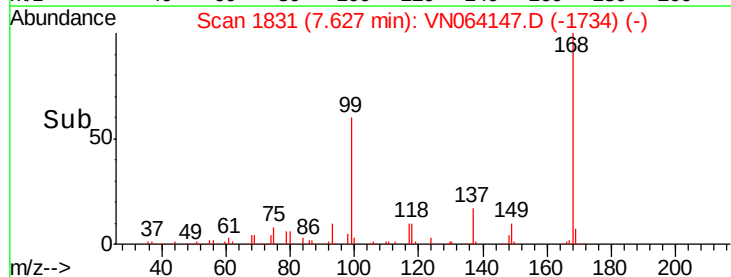
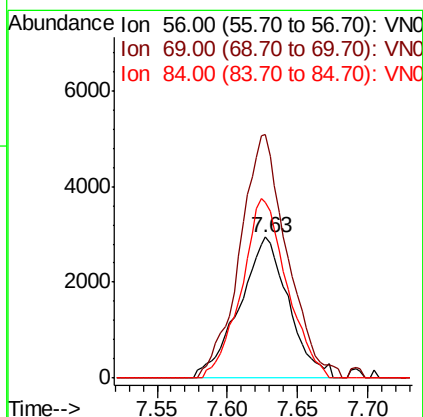
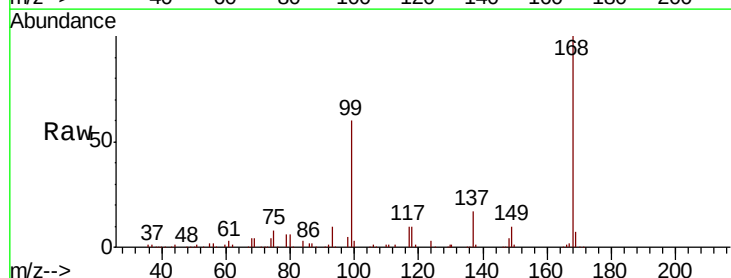
Instrument :
MSVOA_N
ClientSampled :
WP-1

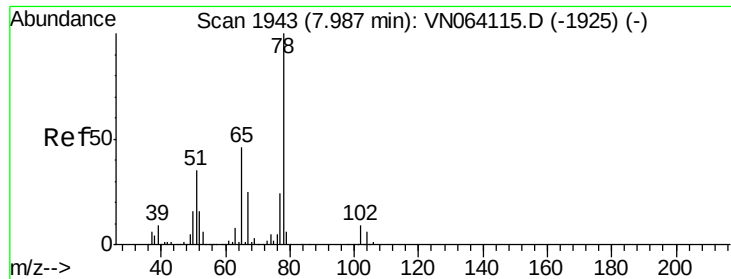
Tot Ion: 84 Resp: 1003
Ion Ratio Lower Upper
84 100
49 58.6 97.4 146.0#
51 0.0 29.7 44.5#
86 0.0 52.5 78.7#



#31
Cyclohexane
Concen: 1.527 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN064147.D
Acq: 15 Oct 2020 16:43

Tgt Ion: 56 Resp: 7174
Ion Ratio Lower Upper
56 100
69 173.1 27.8 41.6#
84 124.6 73.2 109.8#

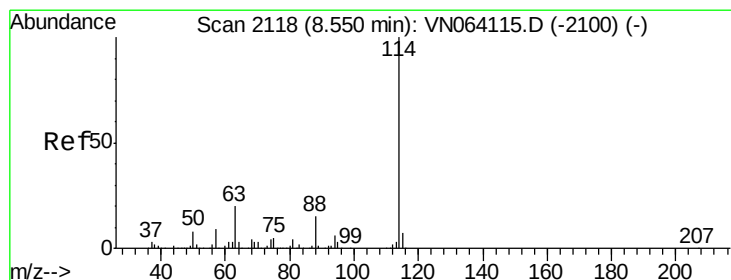
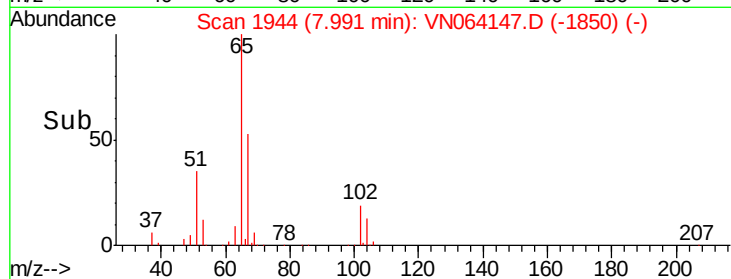
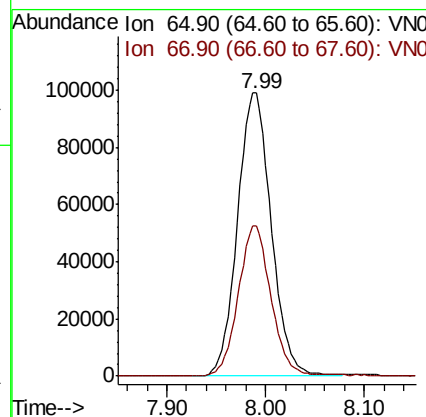
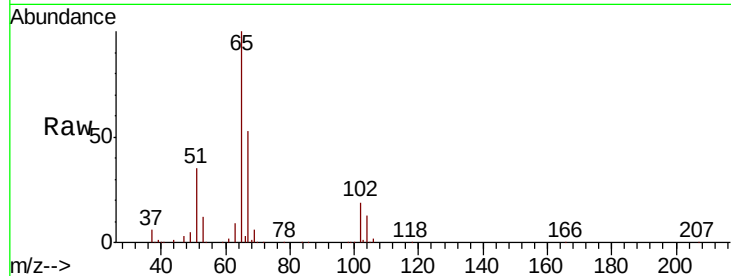




#33
 1,2-Dichloroethane-d4
 Concen: 55.423 ug/l
 RT: 7.99 min Scan# 1944
 Delta R.T. 0.00 min
 Lab File: VN064147.D
 Acq: 15 Oct 2020 16:43

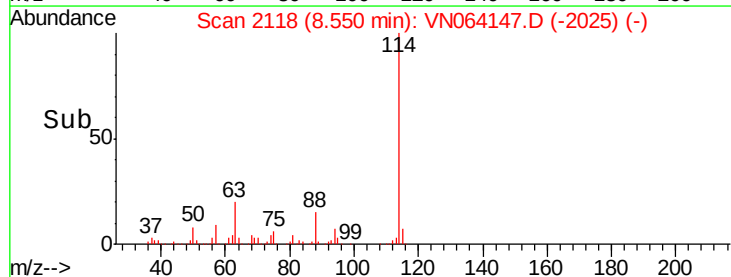
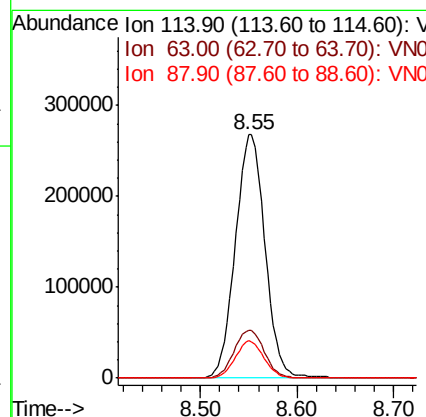
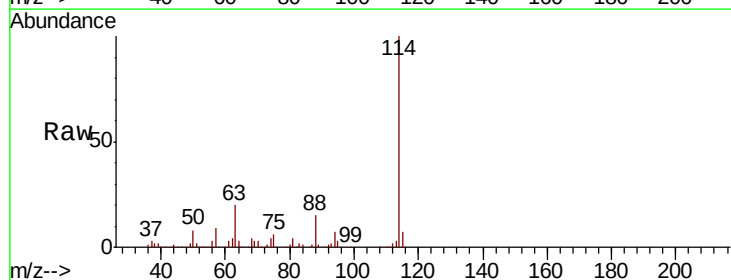
Instrument :
 MSVOA_N
 ClientSampled :
 WP-1

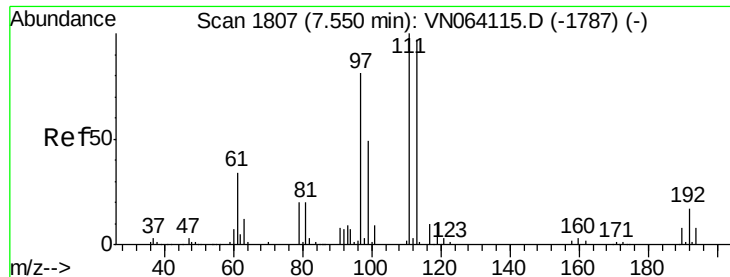
Tot Ion: 65 Resp: 235565
 Ion Ratio Lower Upper
 65 100
 67 51.6 0.0 105.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN064147.D
 Acq: 15 Oct 2020 16:43

Tgt Ion: 114 Resp: 570941
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 41.0
 88 15.5 0.0 29.2

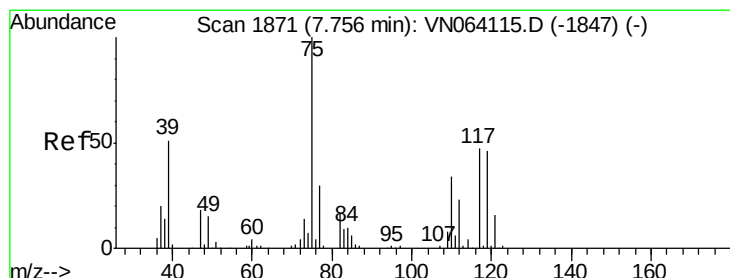
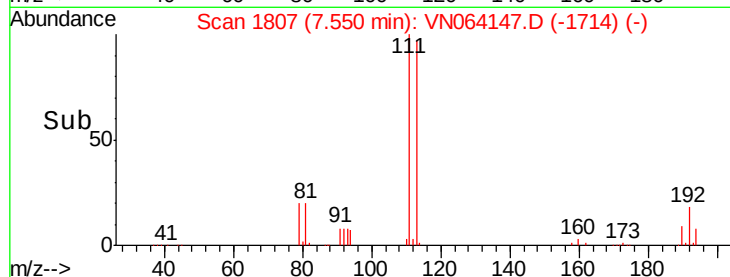
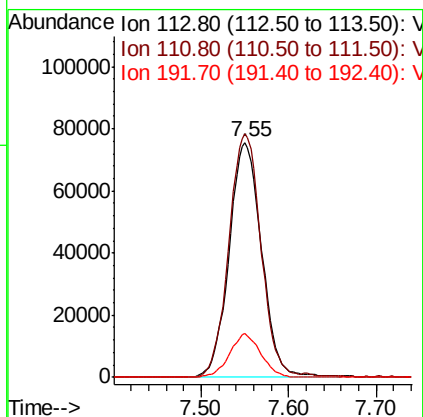
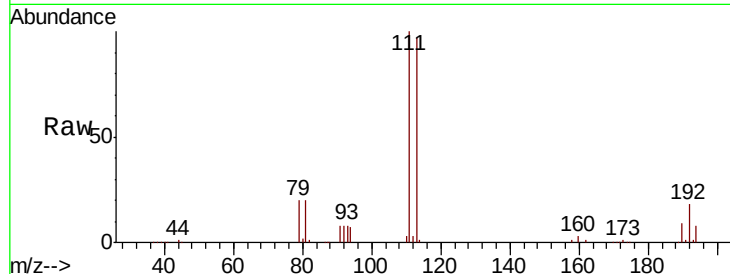




#35
 Dibromofluoromethane
 Concen: 49.158 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN064147.D
 Acq: 15 Oct 2020 16:43

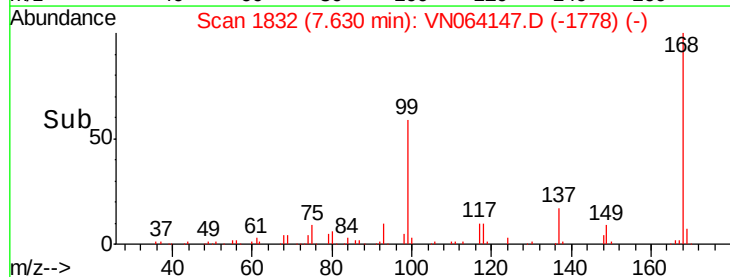
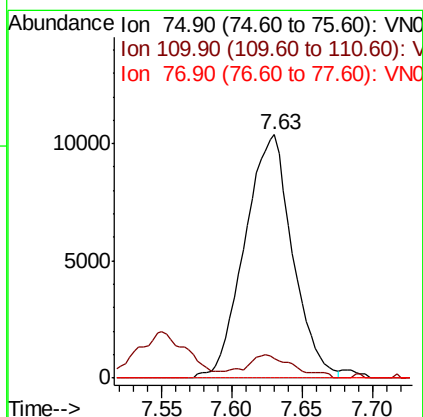
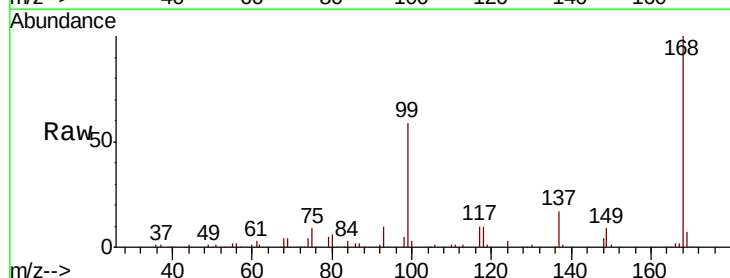
Instrument :
 MSVOA_N
 ClientSampleId :
 WP-1

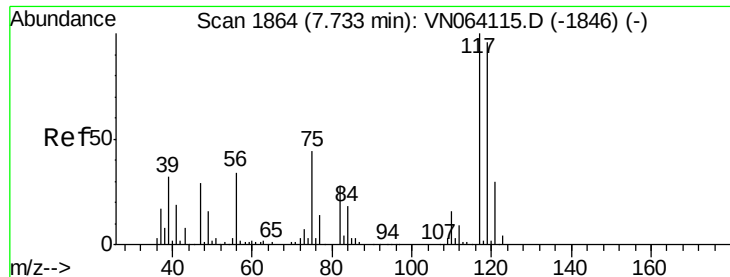
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.4	81.9	122.9
192	18.0	14.3	21.5



#36
 1,1-Dichloropropene
 Concen: 4.463 ug/l
 RT: 7.63 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN064147.D
 Acq: 15 Oct 2020 16:43

Tgt Ion	Ratio	Lower	Upper
75	100		
110	6.5	17.8	53.3#
77	0.0	24.9	37.3#





#38

Carbon Tetrachloride

Concen: 5.340 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN064147.D

Acq: 15 Oct 2020 16:43

Instrument :

MSVOA_N

ClientSampleId :

WP-1

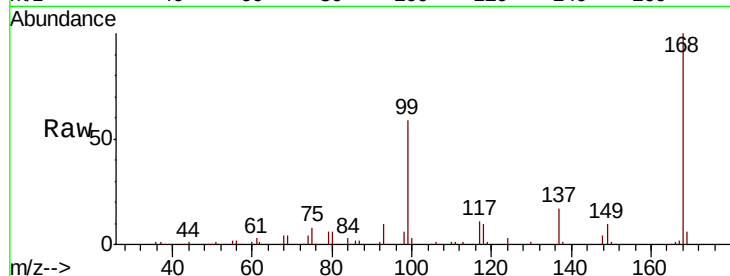
Tot Ion: 117 Resp: 31597

Ion Ratio Lower Upper

117 100

119 5.8 77.0 115.4#

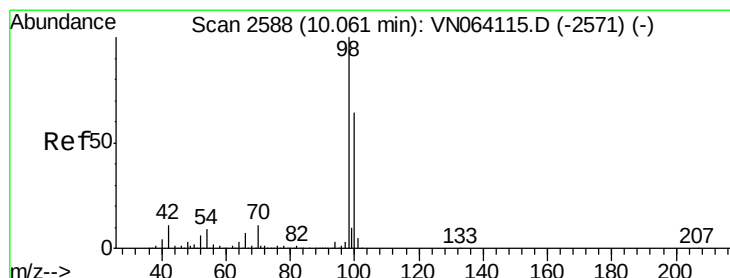
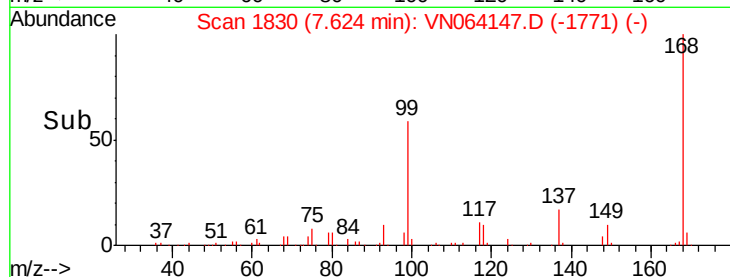
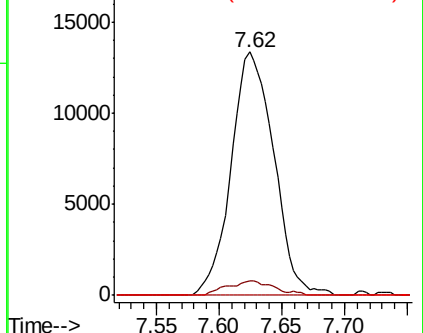
121 0.0 24.2 36.4#



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



#50

Toluene-d8

Concen: 49.164 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN064147.D

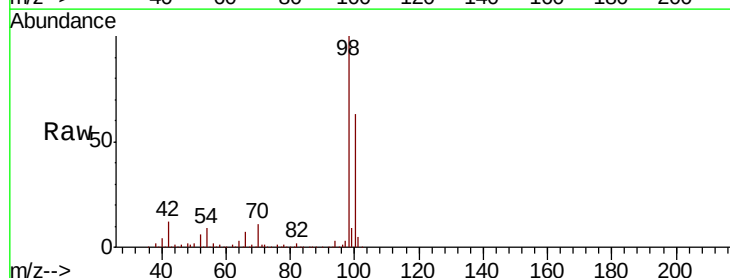
Acq: 15 Oct 2020 16:43

Tgt Ion: 98 Resp: 733064

Ion Ratio Lower Upper

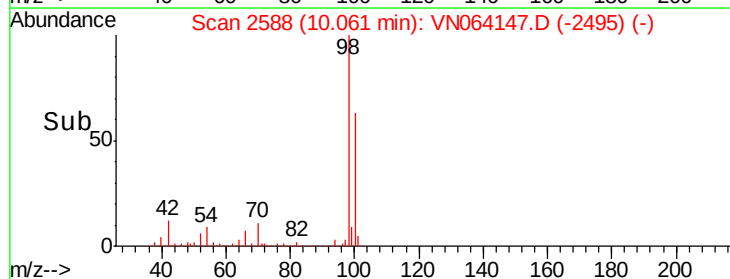
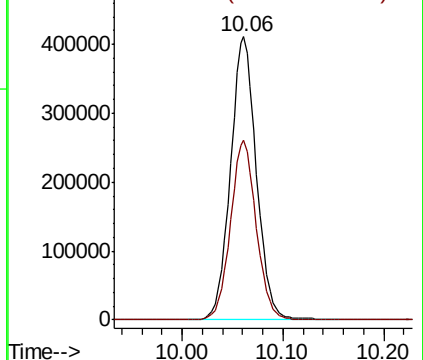
98 100

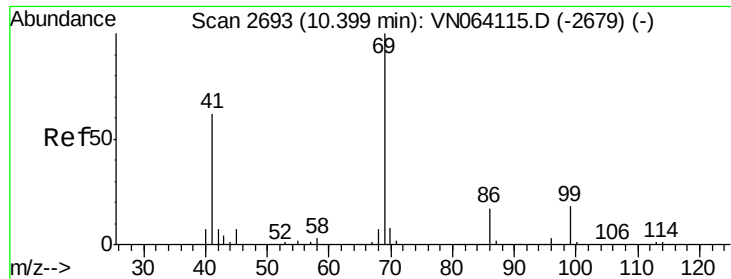
100 63.0 50.8 76.2



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN





#56

Ethyl methacrylate

Concen: 2.308 ug/l

RT: 10.33 min Scan# 2672

Delta R.T. -0.07 min

Lab File: VN064147.D

Acq: 15 Oct 2020 16:43

Instrument :

MSVOA_N

ClientSampled :

WP-1

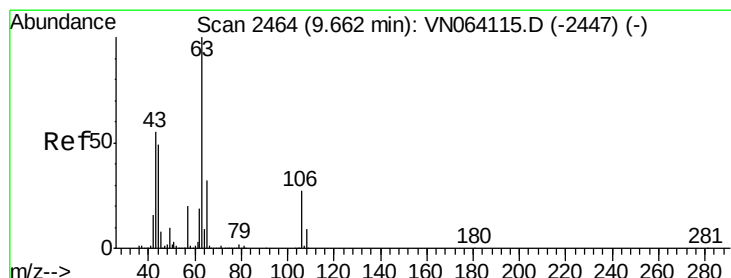
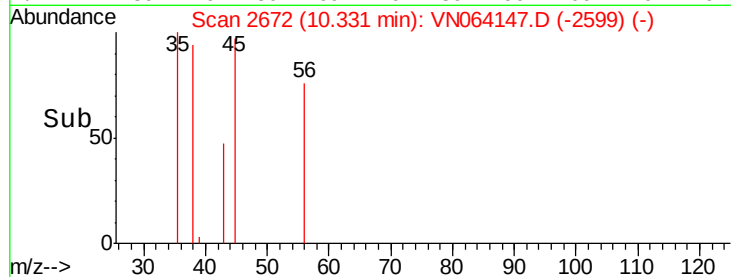
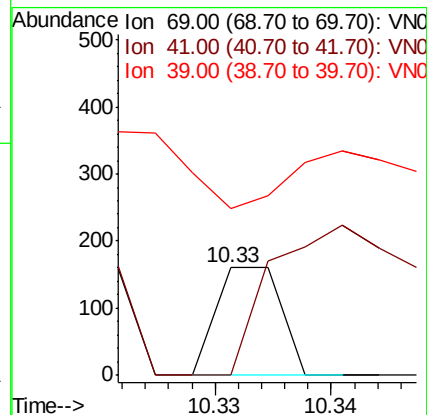
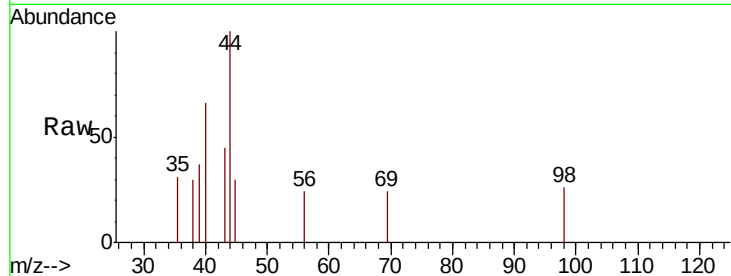
Tot Ion: 69 Resp: 62

Ion Ratio Lower Upper

69 100

41 290.3 49.3 73.9#

39 235.5 32.7 49.1#



#58

2-Chloroethyl Vinyl ether

Concen: 12.228 ug/l

RT: 9.41 min Scan# 2386

Delta R.T. -0.25 min

Lab File: VN064147.D

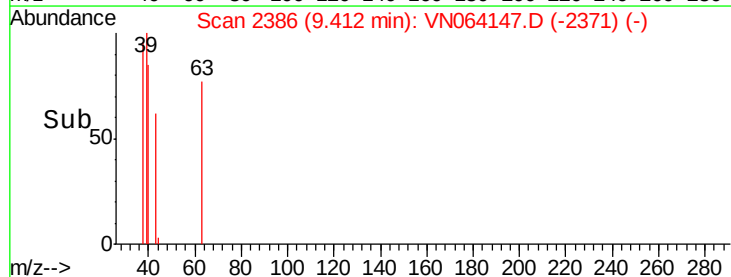
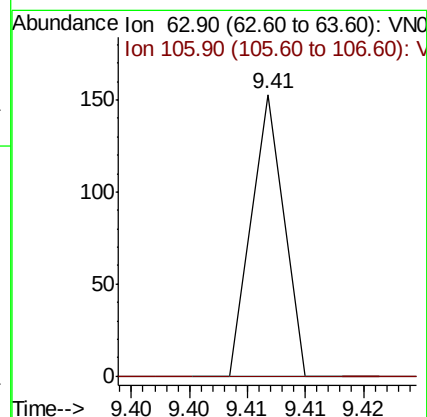
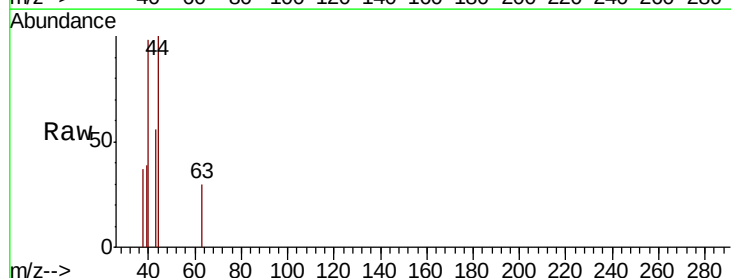
Acq: 15 Oct 2020 16:43

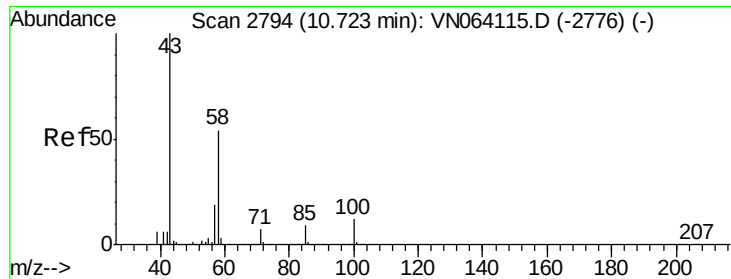
Tgt Ion: 63 Resp: 30

Ion Ratio Lower Upper

63 100

106 0.0 21.8 32.6#





#59

2-Hexanone

Concen: 7.000 ug/l

RT: 10.72 min Scan# 2792

Delta R.T. -0.01 min

Lab File: VN064147.D

Acq: 15 Oct 2020 16:43

Instrument :

MSVOA_N

ClientSampled :

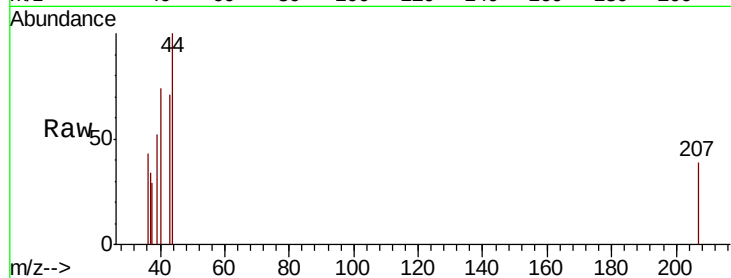
WP-1

Tot Ion: 43 Resp: 620

Ion Ratio Lower Upper

43 100

58 0.0 27.2 81.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.72

400

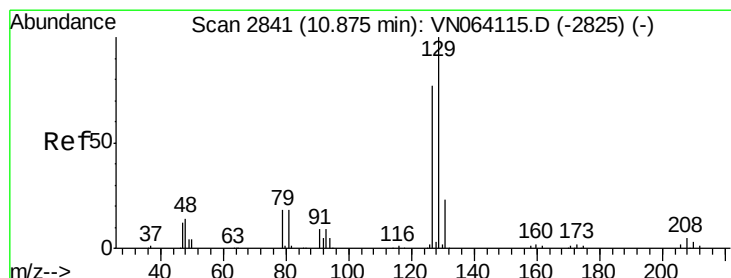
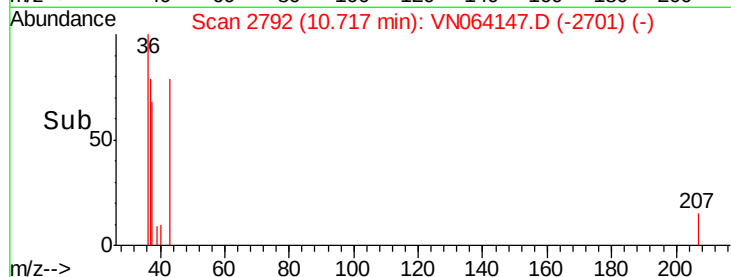
300

200

100

0

Time--> 10.68 10.70 10.72 10.74



#60

Dibromochloromethane

Concen: 7.450 ug/l

RT: 10.60 min Scan# 2756

Delta R.T. -0.27 min

Lab File: VN064147.D

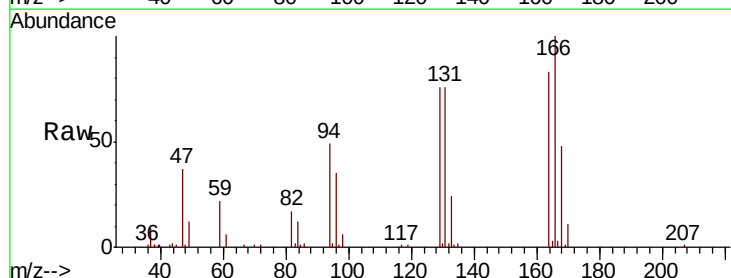
Acq: 15 Oct 2020 16:43

Tgt Ion: 129 Resp: 35500

Ion Ratio Lower Upper

129 100

127 0.0 38.2 114.6#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

20000

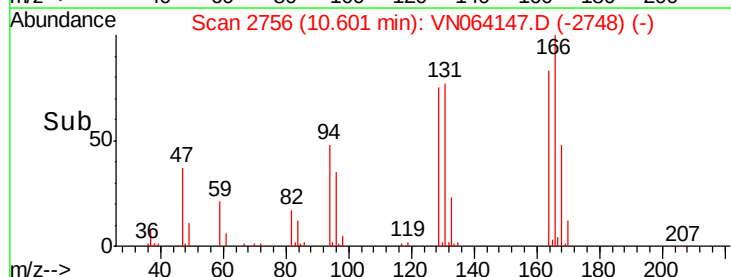
15000

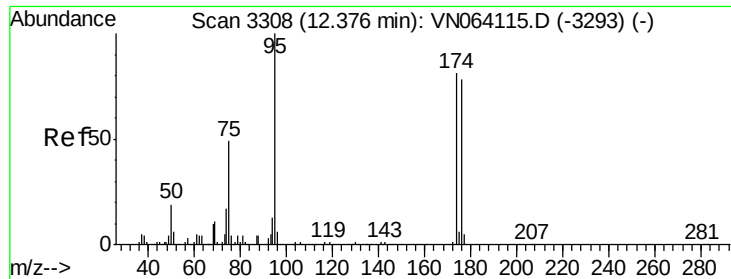
10000

5000

0

Time--> 10.55 10.60 10.65

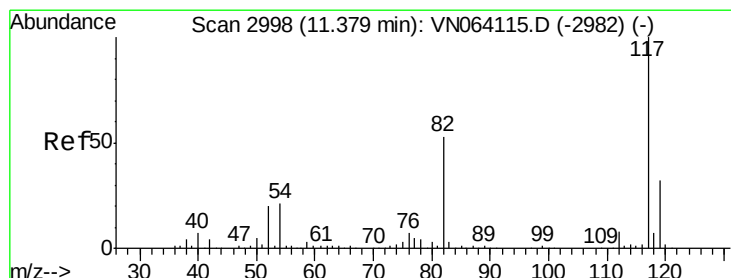
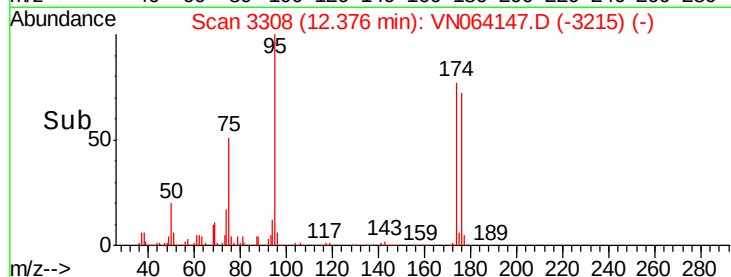
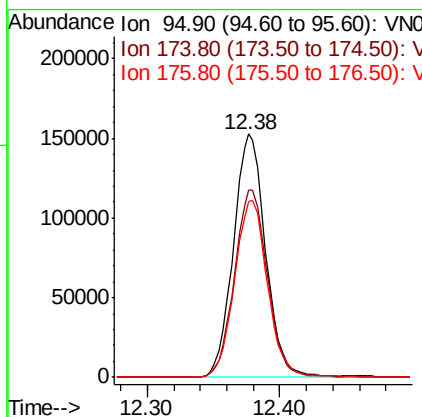
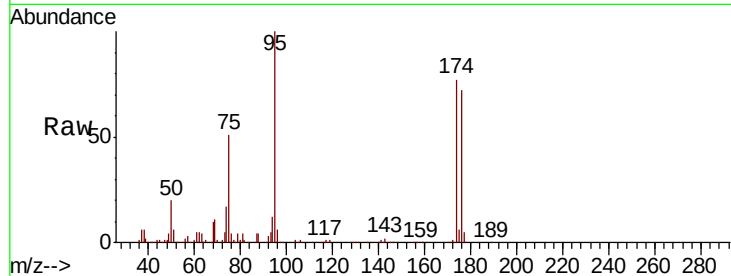




#62
4-Bromofluorobenzene
Concen: 50.240 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN064147.D
Acq: 15 Oct 2020 16:43

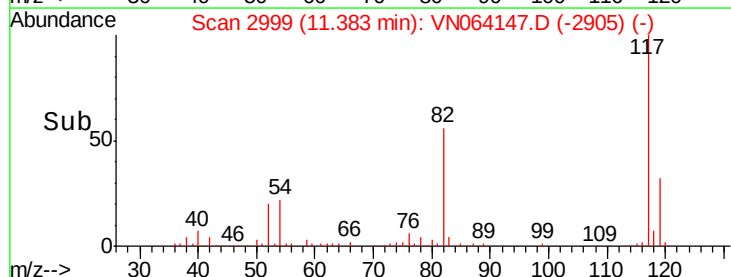
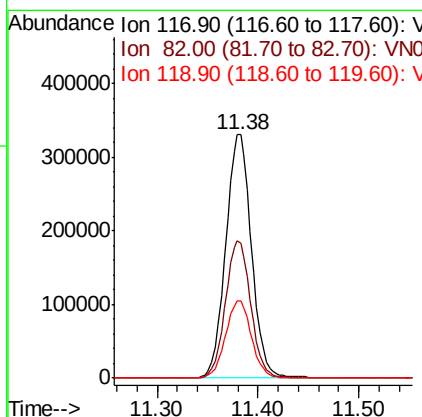
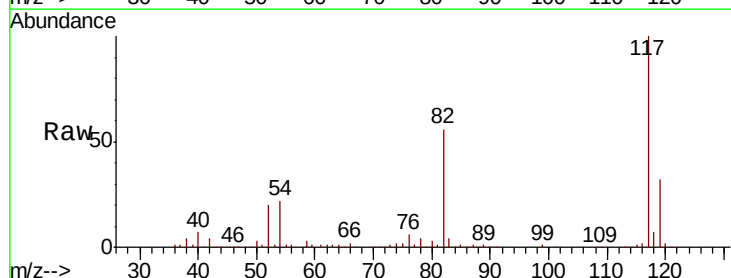
Instrument :
MSVOA_N
ClientSampleId :
WP-1

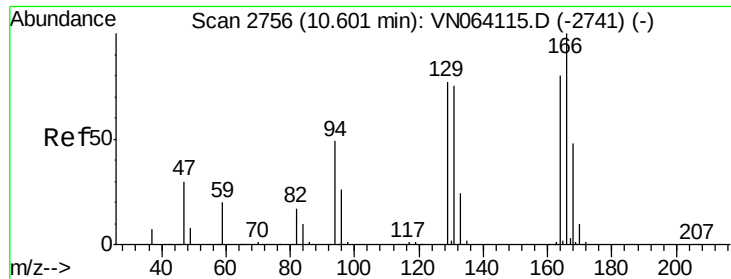
Tot Ion: 95 Resp: 257486
Ion Ratio Lower Upper
95 100
174 79.3 0.0 164.8
176 74.7 0.0 157.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2999
Delta R.T. 0.00 min
Lab File: VN064147.D
Acq: 15 Oct 2020 16:43

Tgt Ion: 117 Resp: 589899
Ion Ratio Lower Upper
117 100
82 55.6 42.6 63.8
119 31.7 25.5 38.3





#64

Tetrachloroethene

Concen: 8.830 ug/l

RT: 10.60 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VN064147.D

Acq: 15 Oct 2020 16:43

Instrument :

MSVOA_N

ClientSampleId :

WP-1

Tot Ion:164 Resp: 39272

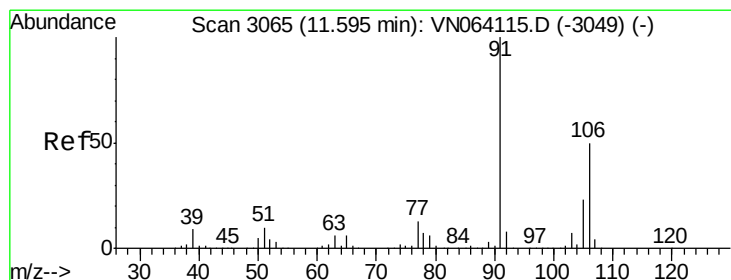
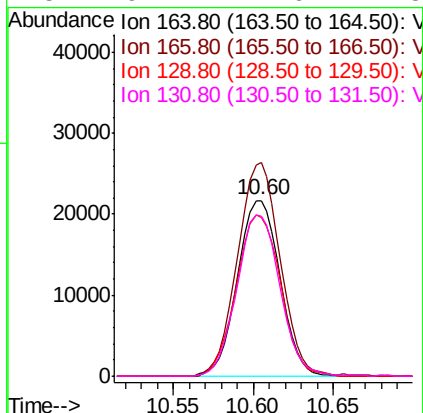
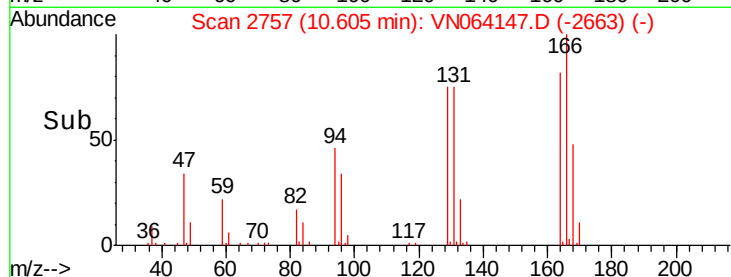
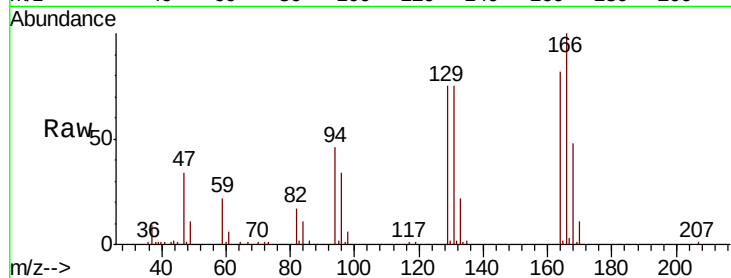
Ion Ratio Lower Upper

164 100

166 121.5 99.7 149.5

129 90.6 77.0 115.4

131 91.2 74.6 111.8



#68

m/p-Xylenes

Concen: 2.214 ug/l

RT: 11.59 min Scan# 3062

Delta R.T. -0.01 min

Lab File: VN064147.D

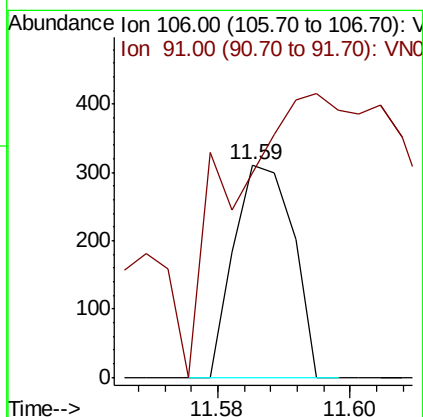
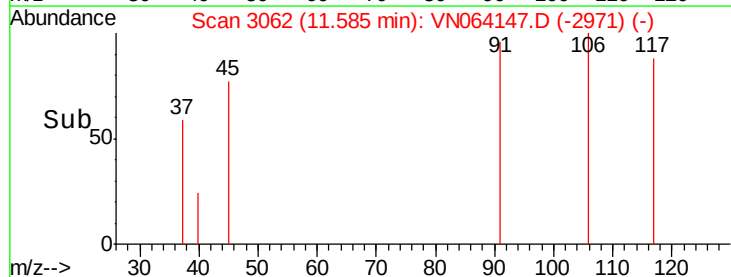
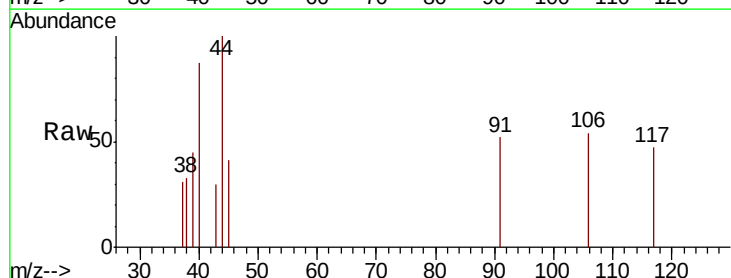
Acq: 15 Oct 2020 16:43

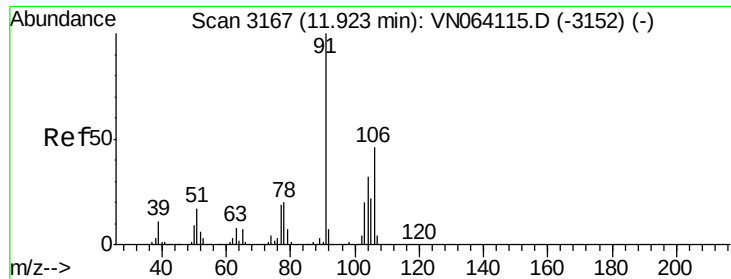
Tgt Ion:106 Resp: 192

Ion Ratio Lower Upper

106 100

91 465.1 162.1 243.1#

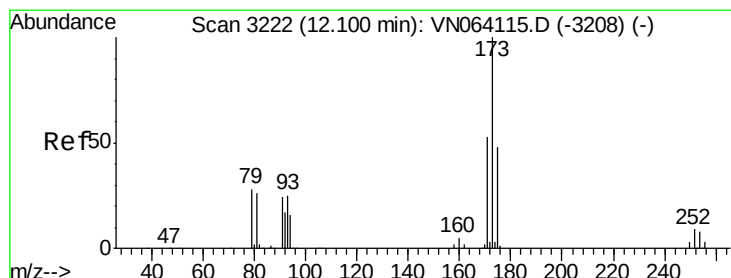
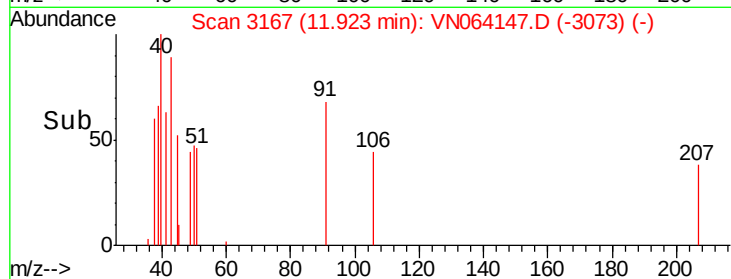
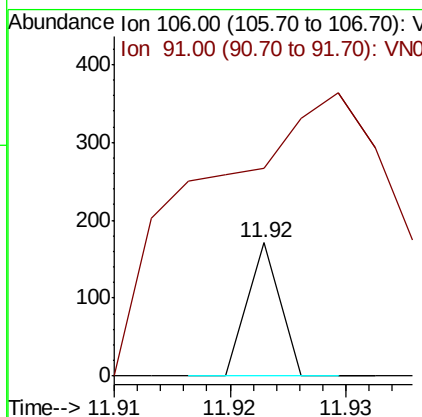
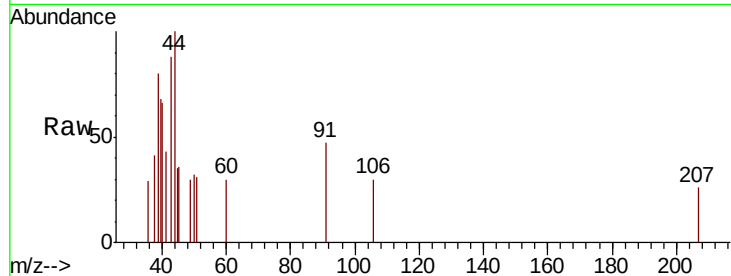




#69
o-Xylene
Concen: 1.587 ug/l
RT: 11.92 min Scan# 3167
Delta R.T. 0.00 min
Lab File: VN064147.D
Acq: 15 Oct 2020 16:43

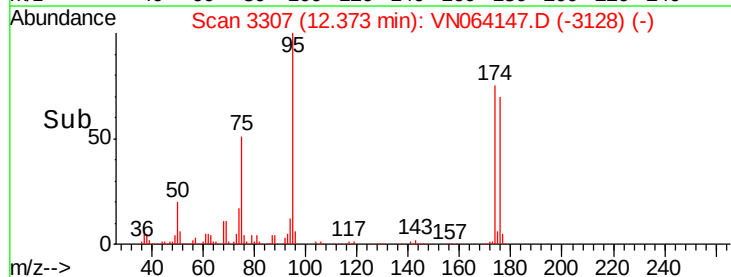
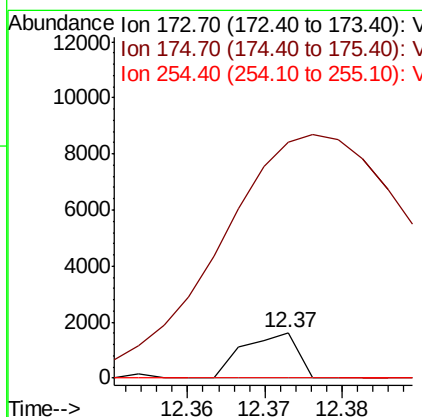
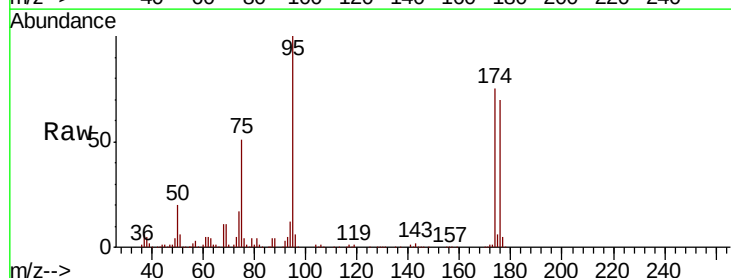
Instrument :
MSVOA_N
ClientSampled :
WP-1

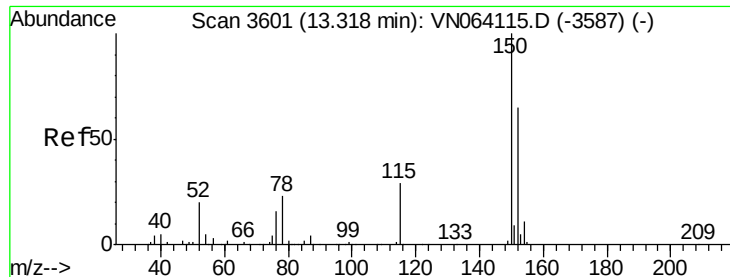
Tot Ion:106 Resp: 33
Ion Ratio Lower Upper
106 100
91 1251.5 107.6 322.8#



#71
Bromoform
Concen: 2.423 ug/l
RT: 12.37 min Scan# 3307
Delta R.T. 0.27 min
Lab File: VN064147.D
Acq: 15 Oct 2020 16:43

Tgt Ion:173 Resp: 786
Ion Ratio Lower Upper
173 100
175 1602.5 23.4 70.2#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN064147.D

Acq: 15 Oct 2020 16:43

Instrument :

MSVOA_N

ClientSampled :

WP-1

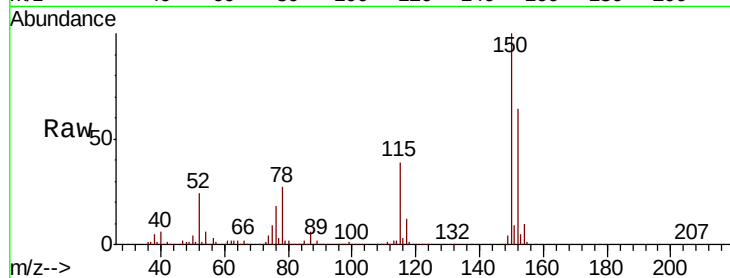
Tot Ion:152 Resp: 216654

Ion Ratio Lower Upper

152 100

115 60.8 29.3 87.8

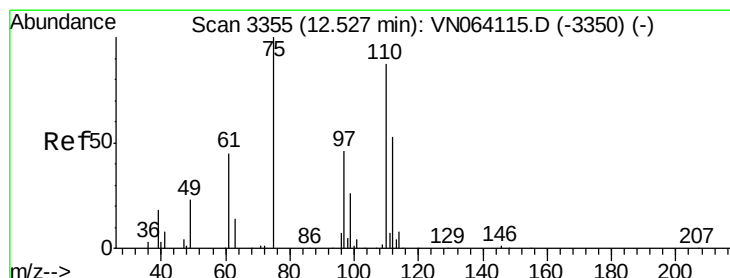
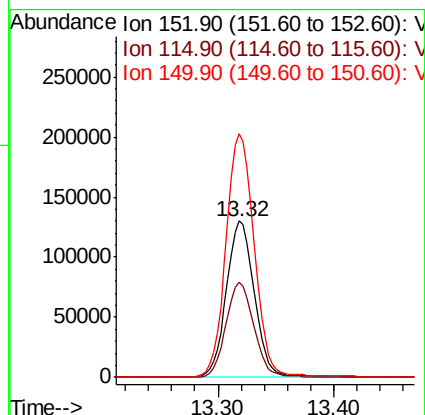
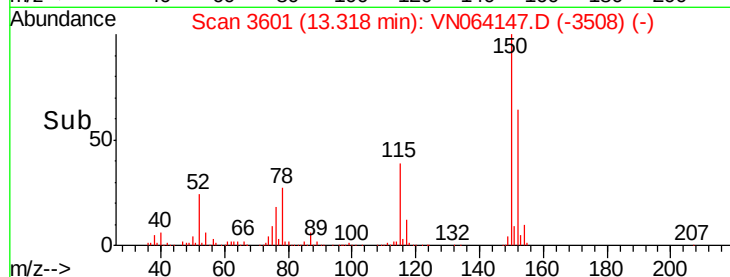
150 157.2 0.0 346.0



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: 26.221 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064147.D

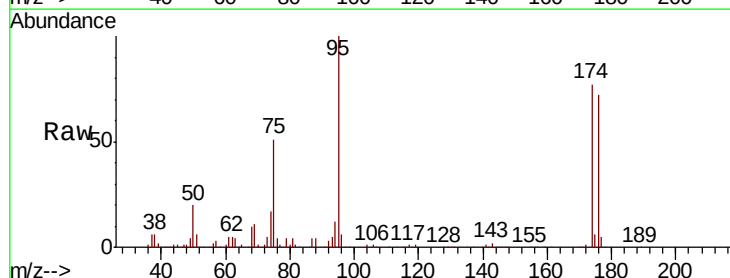
Acq: 15 Oct 2020 16:43

Tgt Ion: 75 Resp: 133277

Ion Ratio Lower Upper

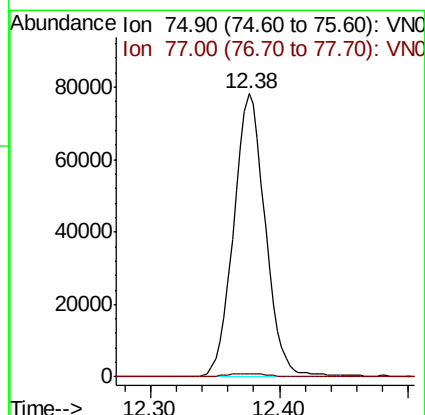
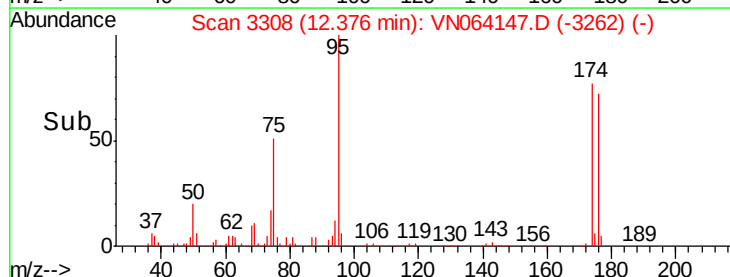
75 100

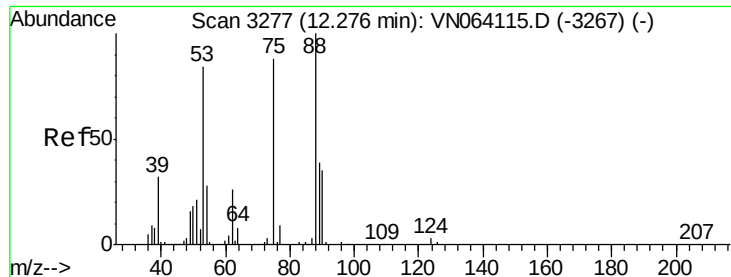
77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 80.110 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064147.D

Acq: 15 Oct 2020 16:43

Instrument :

MSVOA_N

ClientSampled :

WP-1

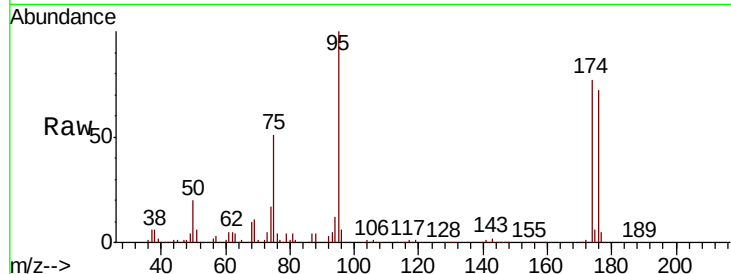
Tot Ion: 75 Resp: 133277

Ion Ratio Lower Upper

75 100

53 0.3 75.7 113.5#

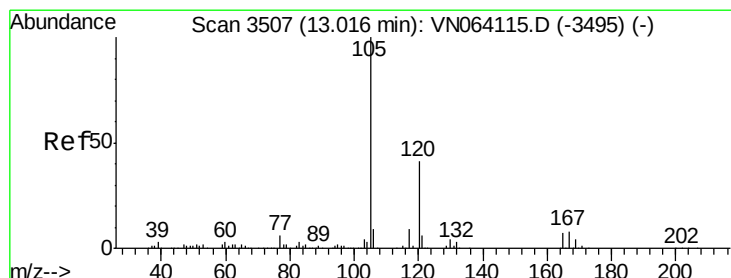
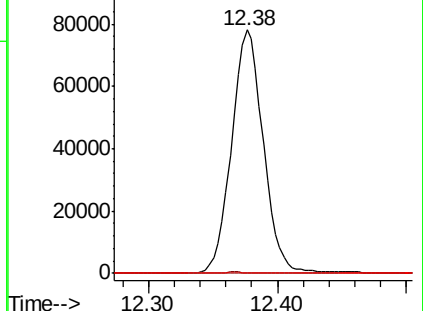
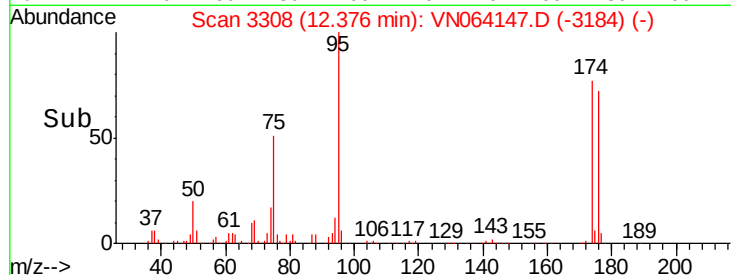
89 0.0 36.6 55.0#



Abundance Ion 74.90 (74.60 to 75.60): VN064115.D (-3267) (-)

Ion 53.00 (52.70 to 53.70): VN064115.D (-3267) (-)

Ion 88.90 (88.60 to 89.60): VN064115.D (-3267) (-)



#84

1,2,4-Trimethylbenzene

Concen: 0.214 ug/l

RT: 13.01 min Scan# 3506

Delta R.T. -0.00 min

Lab File: VN064147.D

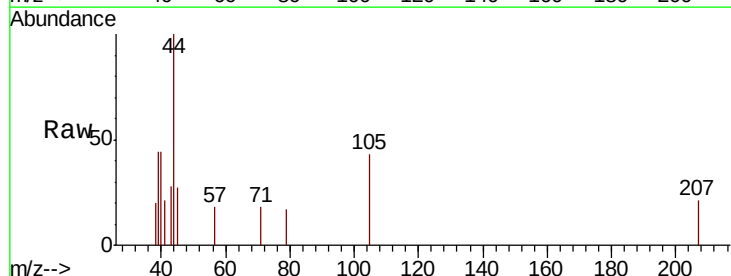
Acq: 15 Oct 2020 16:43

Tgt Ion: 105 Resp: 391

Ion Ratio Lower Upper

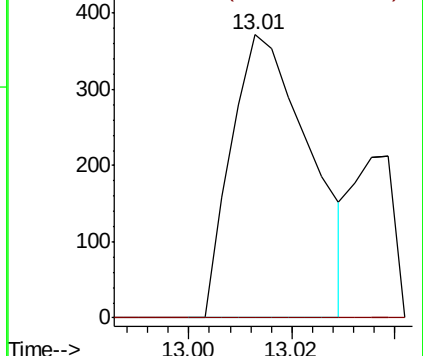
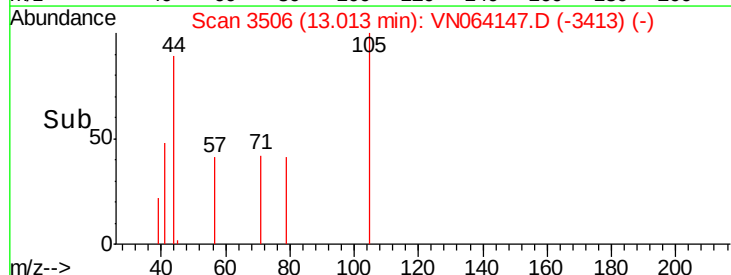
105 100

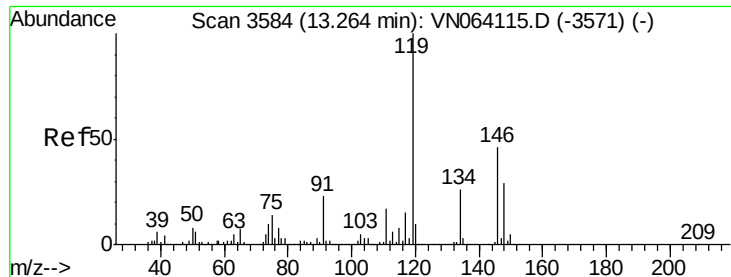
120 0.0 22.8 68.4#



Abundance Ion 105.00 (104.70 to 105.70): VN064115.D (-3495) (-)

Ion 120.00 (119.70 to 120.70): VN064115.D (-3495) (-)

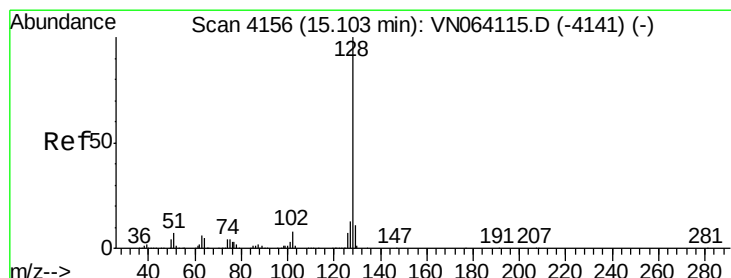
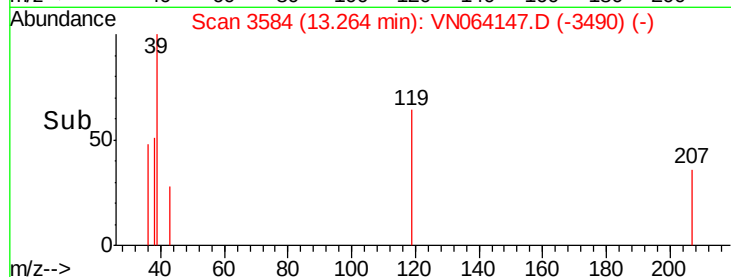
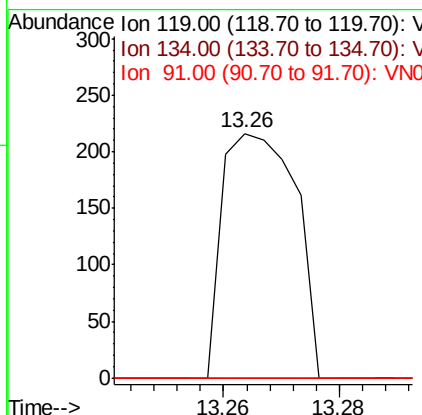
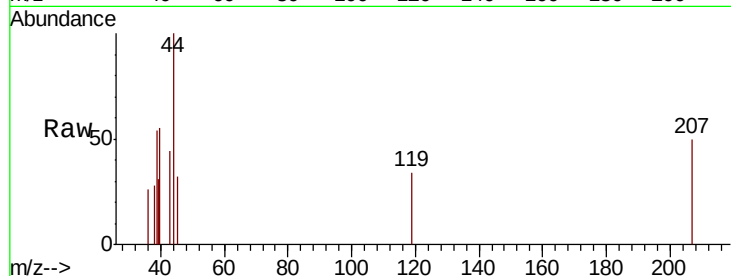




#86
 p-Isopropyltoluene
 Concen: 0.677 ug/l
 RT: 13.26 min Scan# 3584
 Delta R.T. 0.00 min
 Lab File: VN064147.D
 Acq: 15 Oct 2020 16:43

Instrument :
 MSVOA_N
 ClientSampled :
 WP-1

Tot Ion	Ratio	Lower	Upper
119	100		
134	0.0	13.2	39.5#
91	0.0	12.0	36.1#



#95
 Naphthalene
 Concen: 3.815 ug/l
 RT: 15.10 min Scan# 4155
 Delta R.T. -0.00 min
 Lab File: VN064147.D
 Acq: 15 Oct 2020 16:43

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.2	15.4#
129	0.0	8.5	12.7#

