

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100319\
 Data File : VN058524.D
 Acq On : 3 Oct 2019 20:30
 Operator : JC/SP
 Sample : K5176-19
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 30459-61

Quant Time: Oct 04 09:31:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092719W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 30 08:07:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	0.00	168	0m	50.00	ug/l	-7.65
34) 1,4-Difluorobenzene	0.00	114	0	0.00	ug/l	-8.57
63) Chlorobenzene-d5	11.51	117	399784	50.00	ug/l	0.10
72) 1,4-Dichlorobenzene-d4	13.37	152	140991	50.00	ug/l	0.03

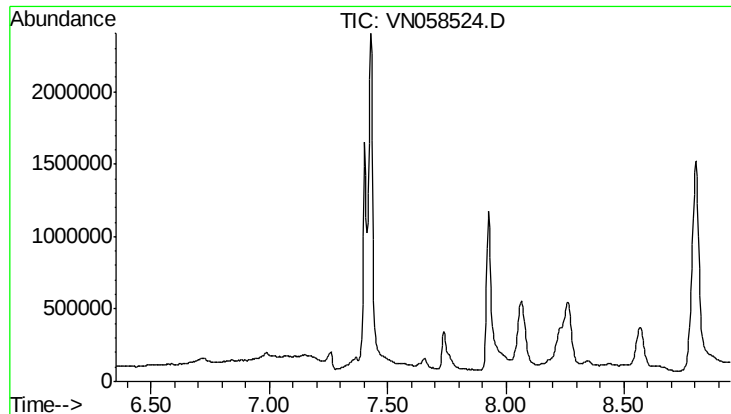
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	0.00	65	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
35) Dibromofluoromethane	0.00	113	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
50) Toluene-d8	10.30	98	580705	0.00	ug/l	0.21
Spiked Amount	50.000		Recovery	=	0.00%	
62) 4-Bromofluorobenzene	12.45	95	166982	0.00	ug/l	0.05
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

						Qvalue
64) Tetrachloroethene	10.79	164	2266	0.892	ug/l #	74
68) m/p-Xylenes	11.60	106	1987	0.367	ug/l #	47
69) o-Xylene	12.02	106	5563	1.067	ug/l	93
70) Styrene	12.03	104	2194	0.259	ug/l #	74
71) Bromoform	12.15	173	31	0.711	ug/l #	29
73) Isopropylbenzene	12.30	105	2656	0.255	ug/l	87
74) N-amyl acetate	12.08	43	7323	1.767	ug/l #	46
76) 1,2,3-Trichloropropane	12.45	75	92831	36.048	ug/l #	100
79) 2-Chlorotoluene	12.63	91	1660	0.229	ug/l	79
80) 1,3,5-Trimethylbenzene	12.78	105	3231	0.370	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.45	75	92831	109.482	ug/l #	8
82) 4-Chlorotoluene	12.63	91	1660	0.225	ug/l	78
84) 1,2,4-Trimethylbenzene	13.08	105	12179	1.394	ug/l	90
89) n-Butylbenzene	13.82	91	4946	0.640	ug/l	75
90) Hexachloroethane	13.87	117	315	0.246	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.29	75	270	0.497	ug/l #	62
95) Naphthalene	15.14	128	25286	3.644	ug/l #	94
96) 1,2,3-Trichlorobenzene	15.30	180	850	0.335	ug/l #	18

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



#1

Pentafluorobenzene

Concen: 0.000 ug/l

Expected RT: 7.65 min

Lab File: VN058524.D

Acq: 3 Oct 2019 20:30

Tot Ion: 168

Sig Exp Ratio

168 100

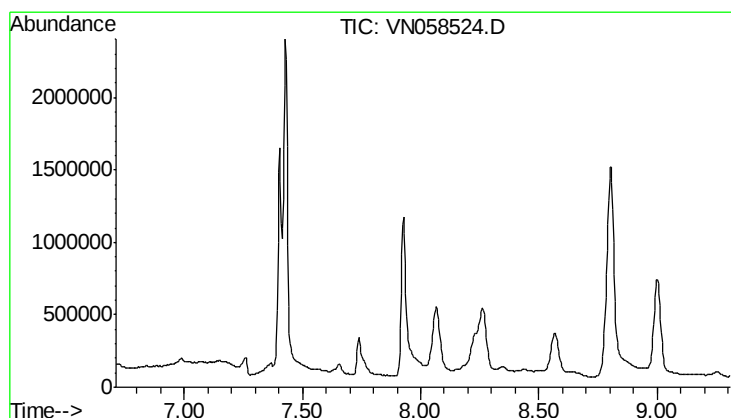
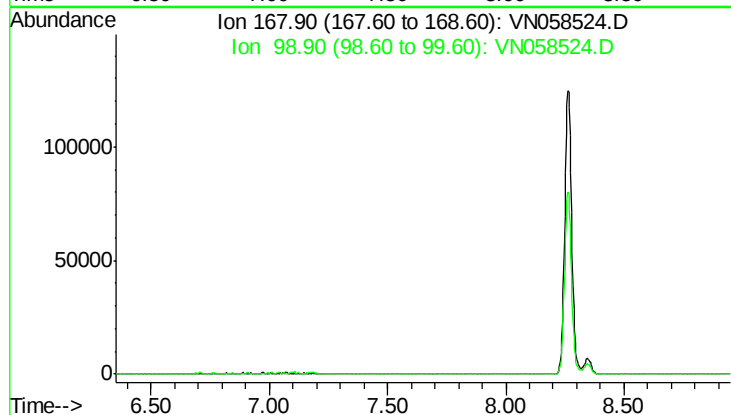
99 59.6

Instrument :

MSVOA_N

ClientSampleId :

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#33

1,2-Dichloroethane-d4

Concen: 0.000 ug/l

Expected RT: 8.01 min

Lab File: VN058524.D

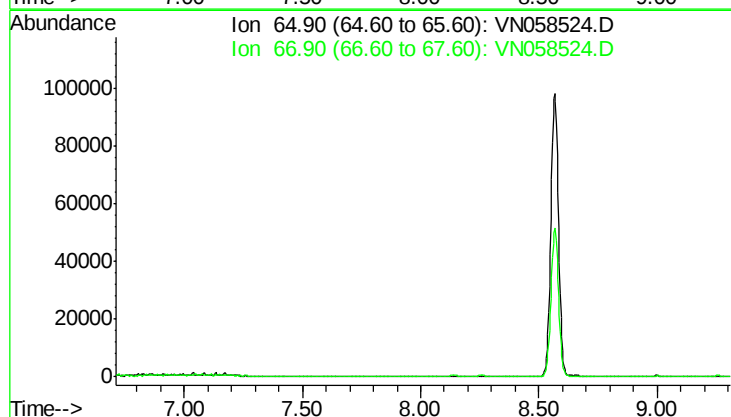
Acq: 3 Oct 2019 20:30

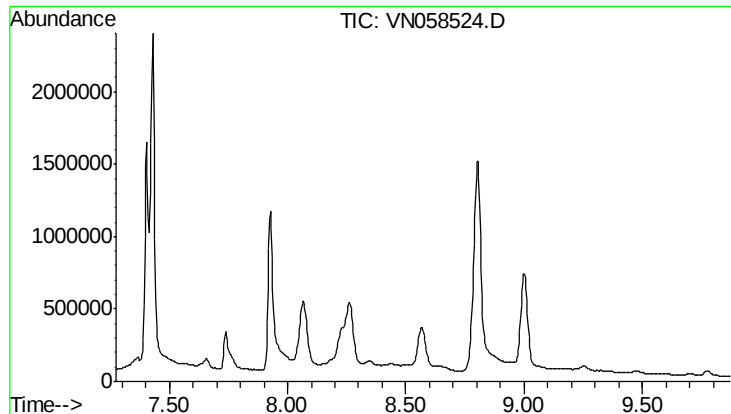
Tgt Ion: 65

Sig Exp Ratio

65 100

67 51.2

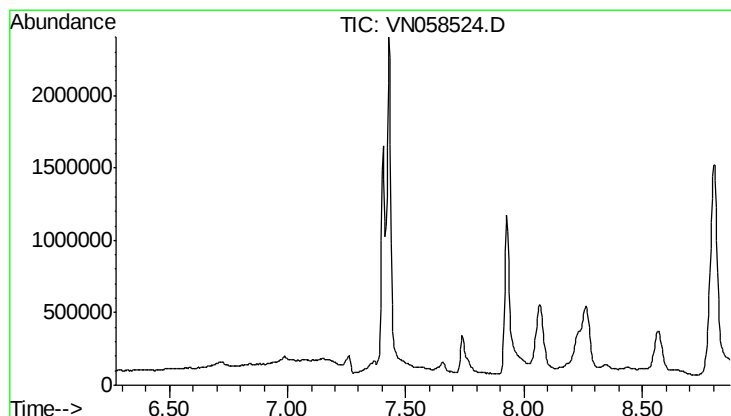
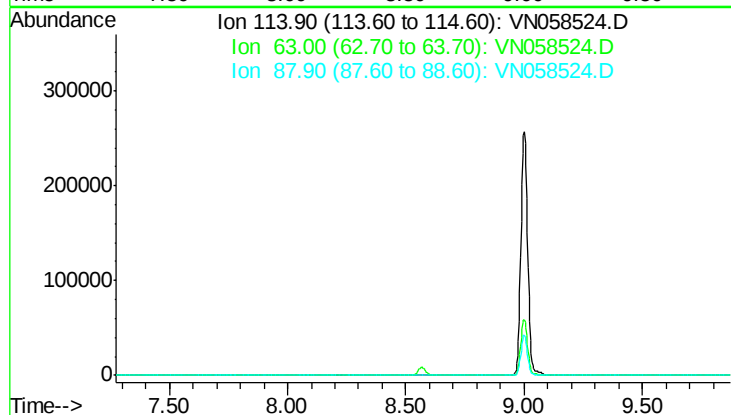




#34
 1,4-Difluorobenzene
 Concen: 0.000 ug/l
 Expected RT: 8.57 min
 Lab File: VN058524.D
 Acq: 3 Oct 2019 20:30

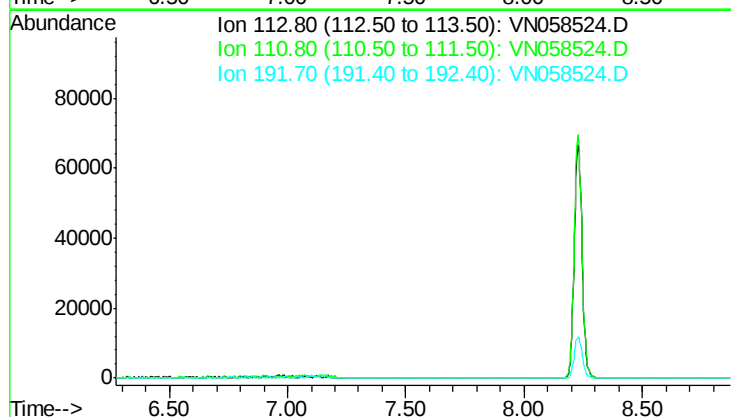
Instrument :
 MSVOA_N
 ClientSampleId :
 30459-61

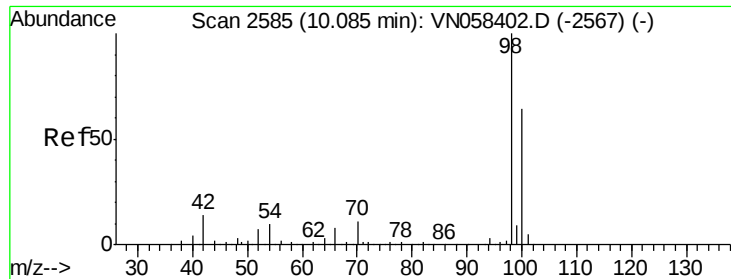
Tot Ion: 114
 Sig Exp Ratio
 114 100
 63 22.5
 88 16.1



#35
 Dibromofluoromethane
 Concen: 0.000 ug/l
 Expected RT: 7.57 min
 Lab File: VN058524.D
 Acq: 3 Oct 2019 20:30

Tgt Ion: 113
 Sig Exp Ratio
 113 100
 111 104.3
 192 18.6





#50

Toluene-d8

Concen: 0.000 ug/l

RT: 10.30 min Scan# 2651

Delta R.T. 0.21 min

Lab File: VN058524.D

Acq: 3 Oct 2019 20:30

Instrument :

MSVOA_N

ClientSampleId :

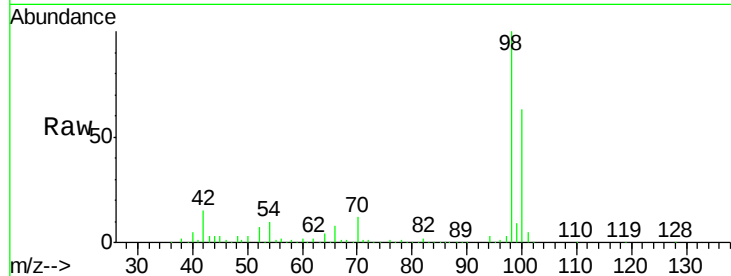
30459-61

Tot Ion: 98 Resp: 580705

Ion Ratio Lower Upper

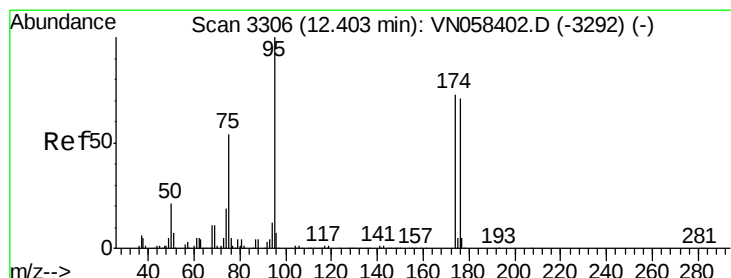
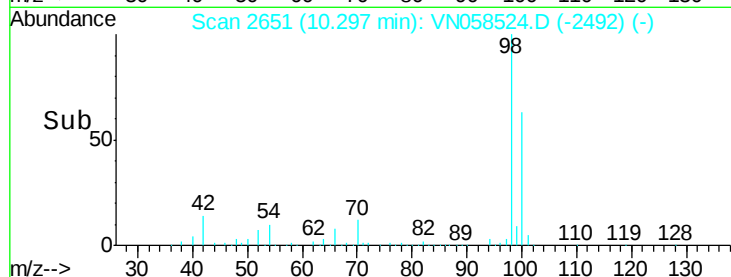
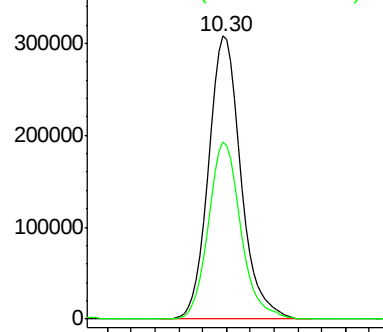
98 100

100 62.7 51.0 76.6



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#62

4-Bromofluorobenzene

Concen: 0.000 ug/l

RT: 12.45 min Scan# 3322

Delta R.T. 0.05 min

Lab File: VN058524.D

Acq: 3 Oct 2019 20:30

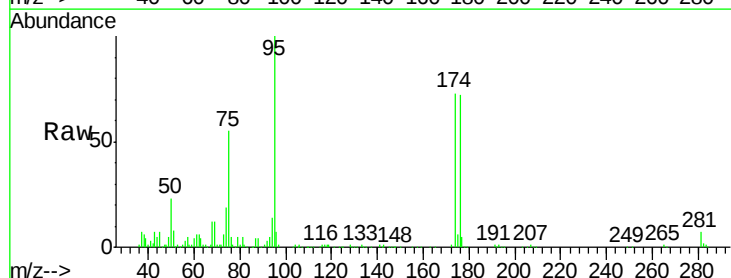
Tgt Ion: 95 Resp: 166982

Ion Ratio Lower Upper

95 100

174 73.7 0.0 150.6

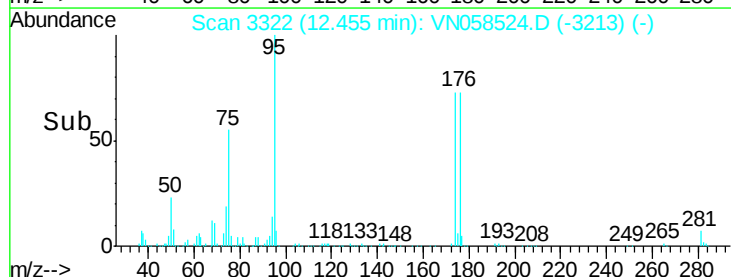
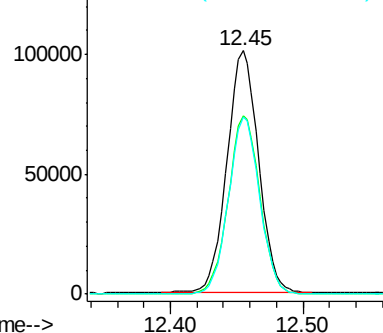
176 72.2 0.0 146.2

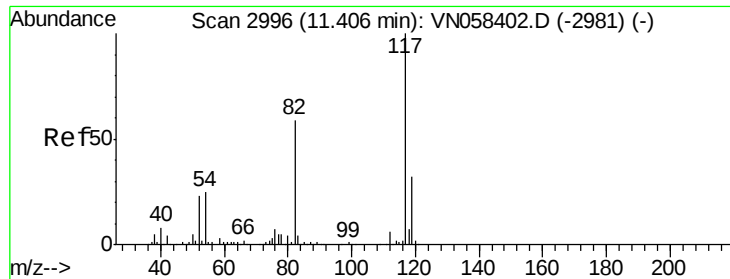


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

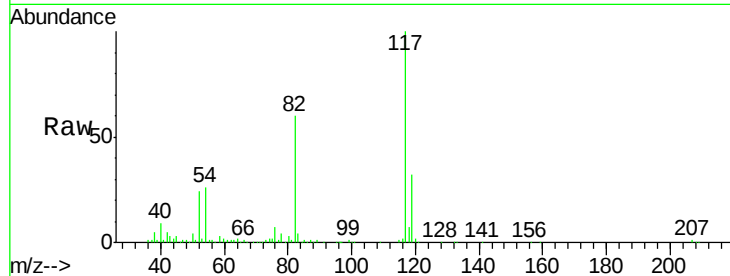




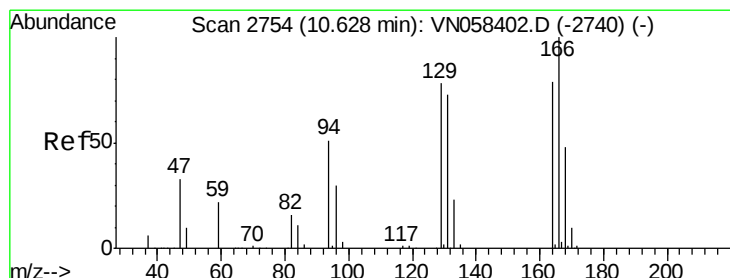
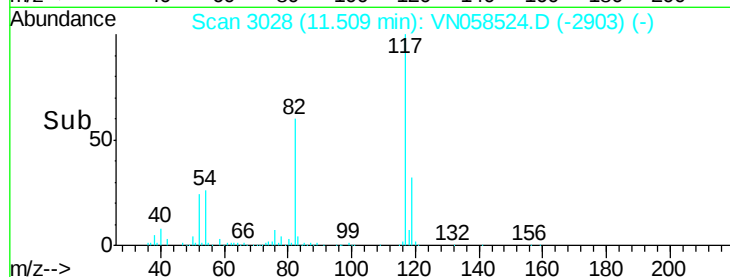
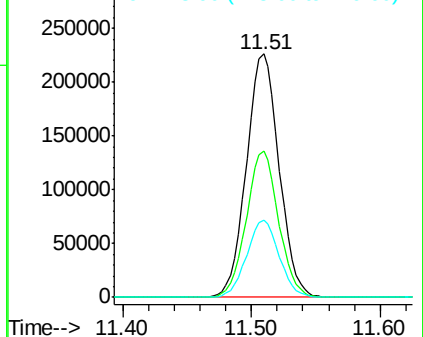
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.10 min
Lab File: VN058524.D
Acq: 3 Oct 2019 20:30

Instrument :
MSVOA_N
ClientSampleId :
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Tot Ion:117 Resp: 399784
Ion Ratio Lower Upper
117 100
82 59.8 47.4 71.0
119 31.7 25.5 38.3

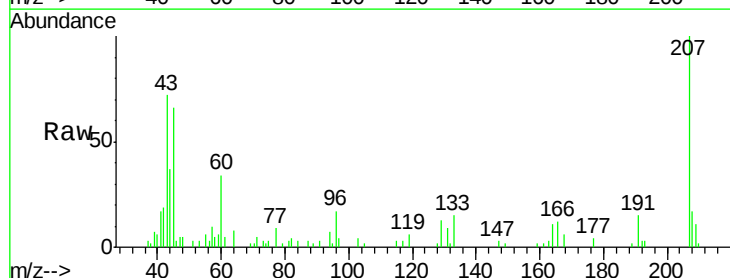


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

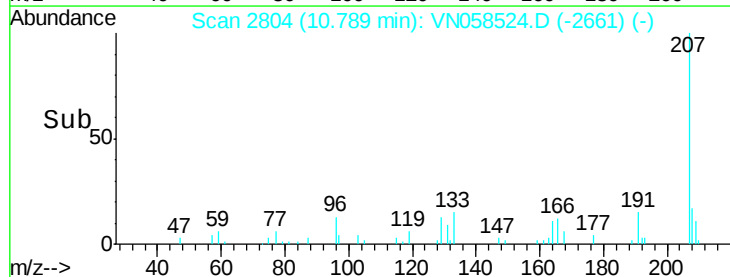
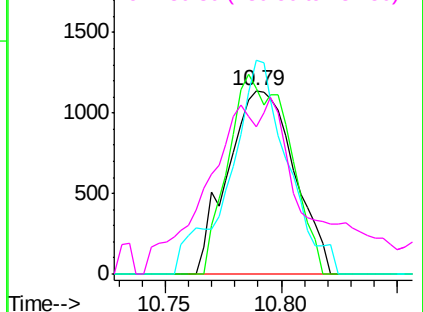


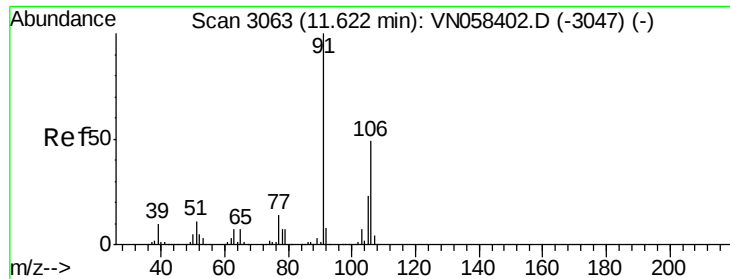
#64
Tetrachloroethene
Concen: 0.892 ug/l
RT: 10.79 min Scan# 2804
Delta R.T. 0.16 min
Lab File: VN058524.D
Acq: 3 Oct 2019 20:30

Tgt Ion:164 Resp: 2266
Ion Ratio Lower Upper
164 100
166 100.9 101.1 151.7#
129 116.4 79.2 118.8
131 53.6 74.1 111.1#



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

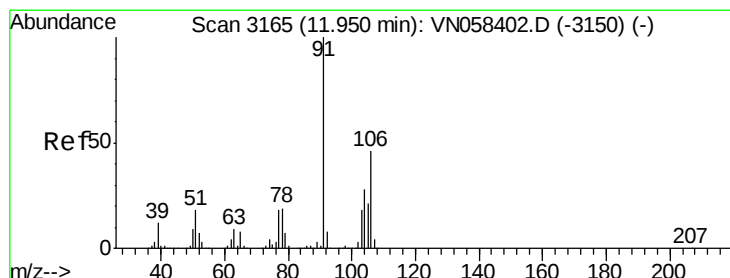
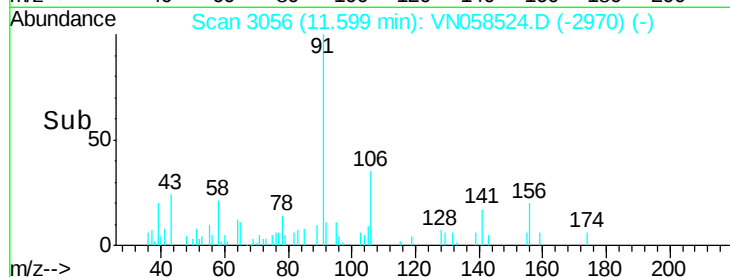
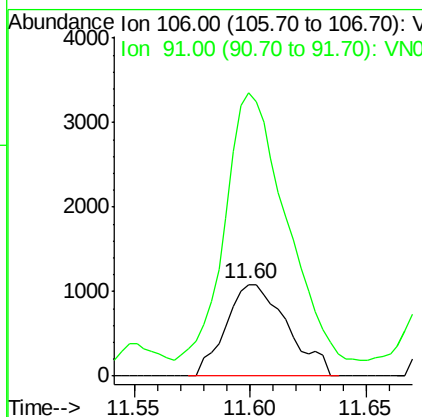
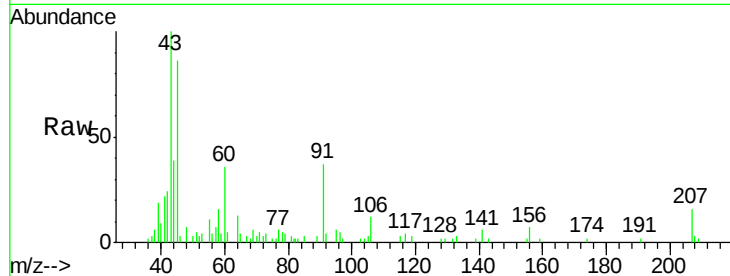




#68
m/p-Xylenes
Concen: 0.367 ug/l
RT: 11.60 min Scan# 3056
Delta R.T. -0.02 min
Lab File: VN058524.D
Acq: 3 Oct 2019 20:30

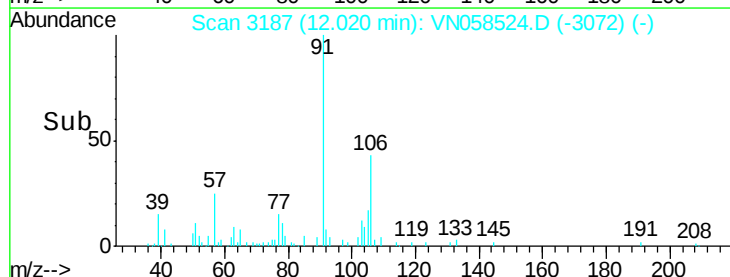
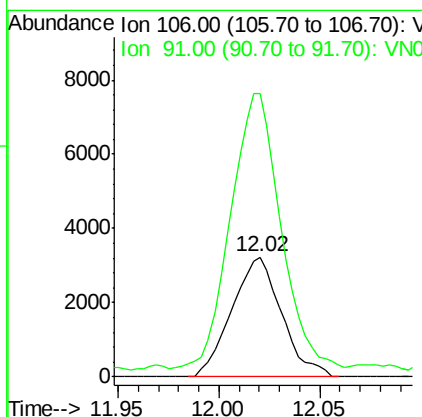
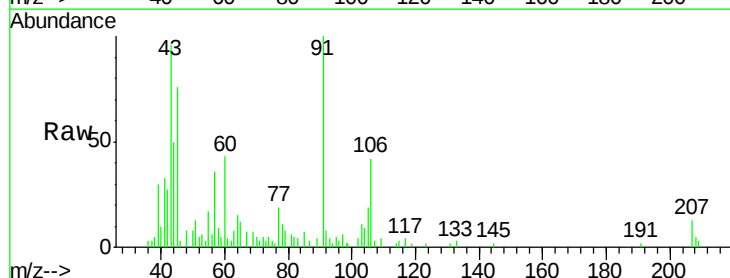
Instrument :
MSVOA_N
ClientSampleId :
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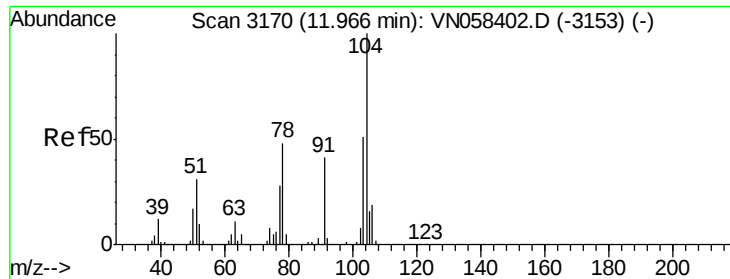
Tot Ion:106 Resp: 1987
Ion Ratio Lower Upper
106 100
91 288.1 165.0 247.4#



#69
o-Xylene
Concen: 1.067 ug/l
RT: 12.02 min Scan# 3187
Delta R.T. 0.07 min
Lab File: VN058524.D
Acq: 3 Oct 2019 20:30

Tgt Ion:106 Resp: 5563
Ion Ratio Lower Upper
106 100
91 229.1 109.1 327.4





#70

Stvrene

Concen: 0.259 ug/l

RT: 12.03 min Scan# 3191

Delta R.T. 0.07 min

Lab File: VN058524.D

Acq: 3 Oct 2019 20:30

Instrument :

MSVOA_N

ClientSampleId :

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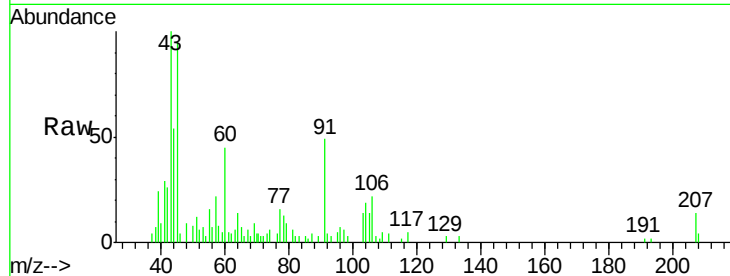
Tot Ion:104 Resp: 2194

Ion Ratio Lower Upper

104 100

78 53.2 42.8 64.2

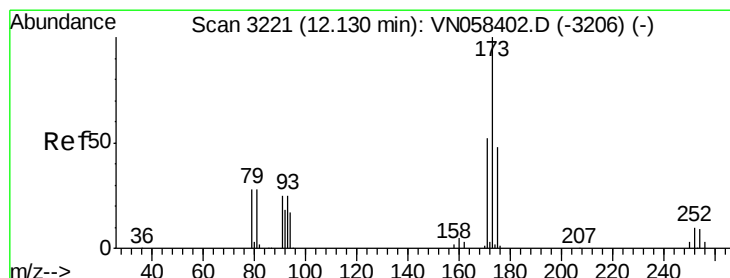
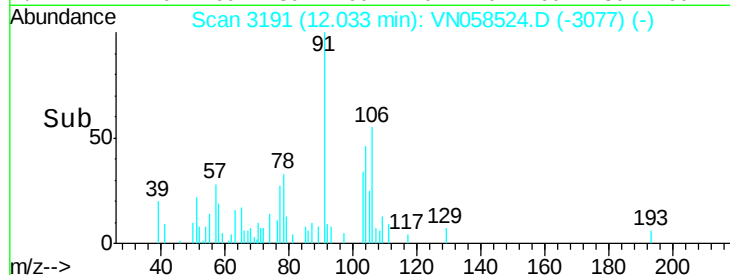
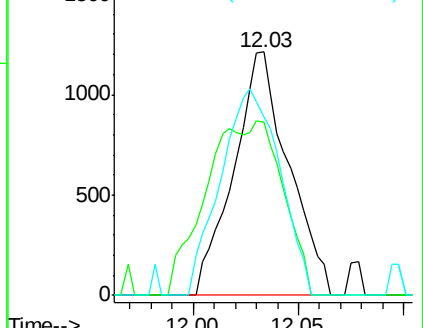
103 92.0 43.7 65.5#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN

Ion 103.00 (102.70 to 103.70): V



#71

Bromoform

Concen: 0.711 ug/l

RT: 12.15 min Scan# 3228

Delta R.T. 0.02 min

Lab File: VN058524.D

Acq: 3 Oct 2019 20:30

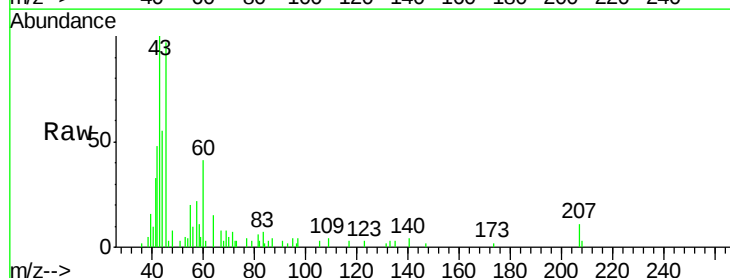
Tgt Ion:173 Resp: 31

Ion Ratio Lower Upper

173 100

175 0.0 24.3 73.0#

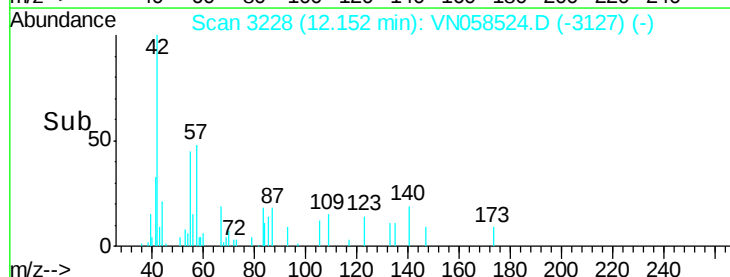
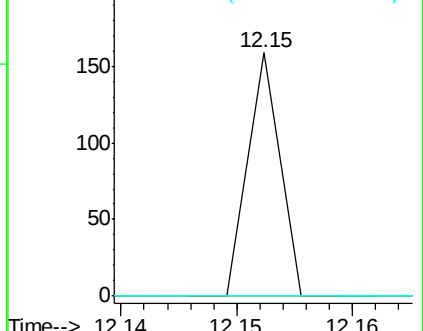
254 0.0 0.1 0.1#

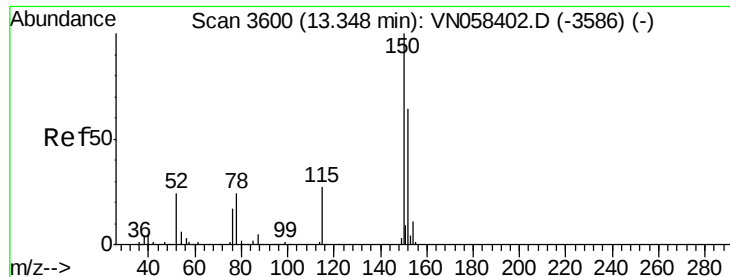


Abundance Ion 172.70 (172.40 to 173.40): V

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: 13.37 min Scan# 3608

Delta R.T. 0.03 min

Lab File: VN058524.D

Acq: 3 Oct 2019 20:30

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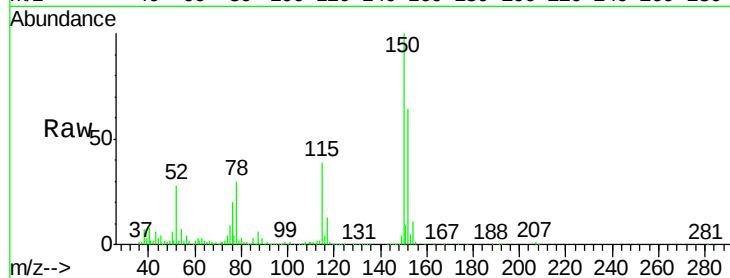
Tot Ion:152 Resp: 140991

Ion Ratio Lower Upper

152 100

115 61.2 30.0 90.0

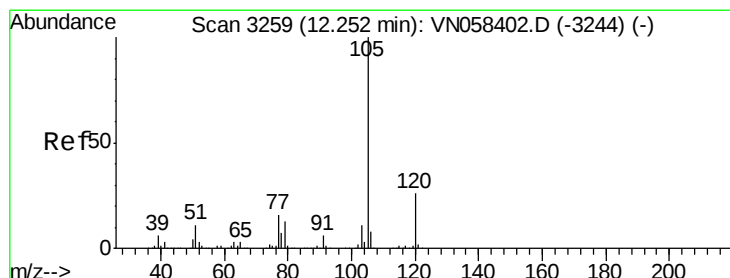
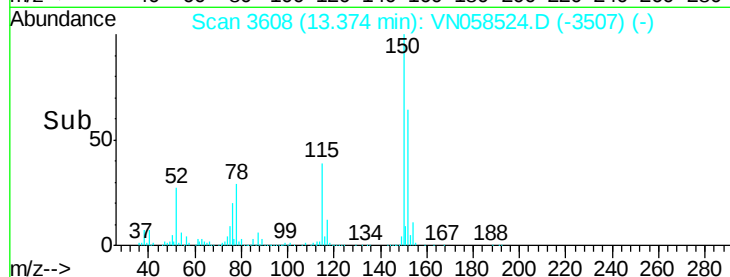
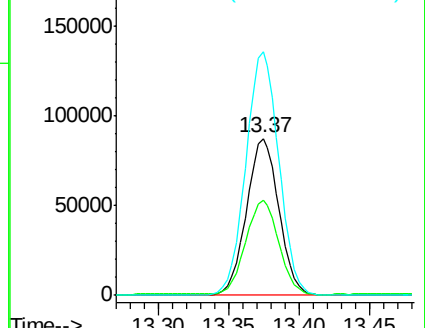
150 157.8 0.0 348.2



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



#73

Isopropylbenzene

Concen: 0.255 ug/l

RT: 12.30 min Scan# 3275

Delta R.T. 0.05 min

Lab File: VN058524.D

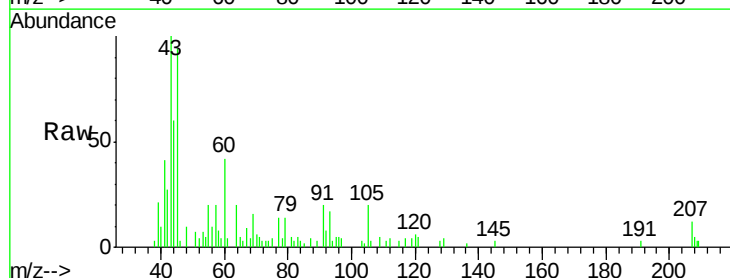
Acq: 3 Oct 2019 20:30

Tgt Ion:105 Resp: 2656

Ion Ratio Lower Upper

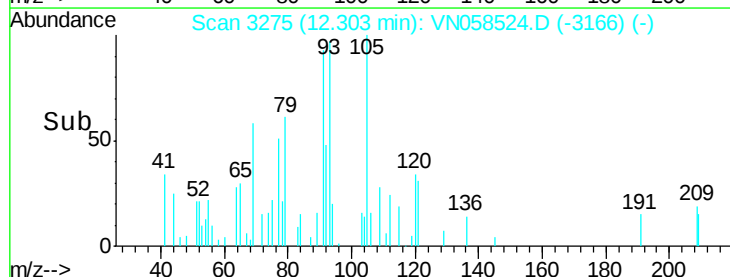
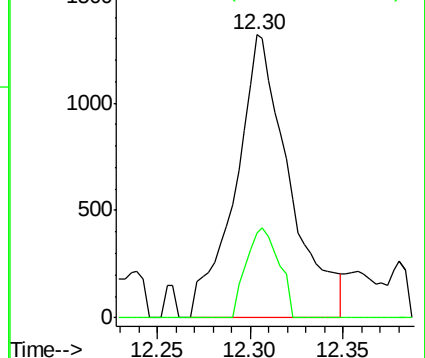
105 100

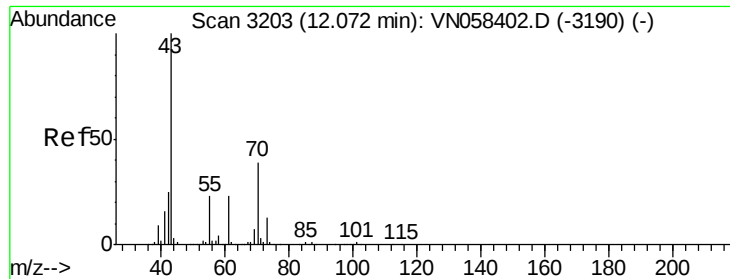
120 19.2 12.8 38.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: 1.767 ug/l

RT: 12.08 min Scan# 3207

Delta R.T. 0.01 min

Lab File: VN058524.D

Acq: 3 Oct 2019 20:30

Instrument :

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Tot Ion: 43 Resp: 7323

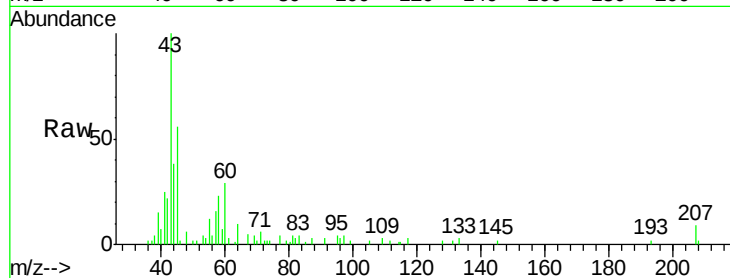
Ion Ratio Lower Upper

43 100

70 0.0 31.4 47.2#

55 0.0 18.2 27.4#

61 1.4 18.3 27.5#

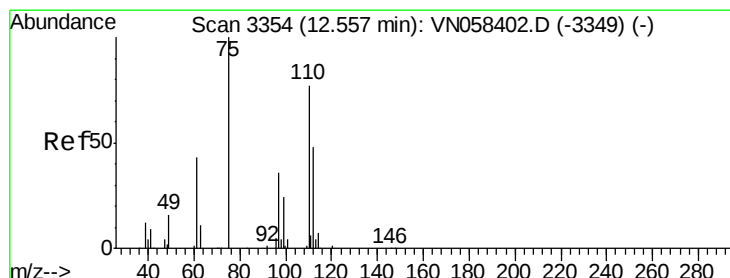
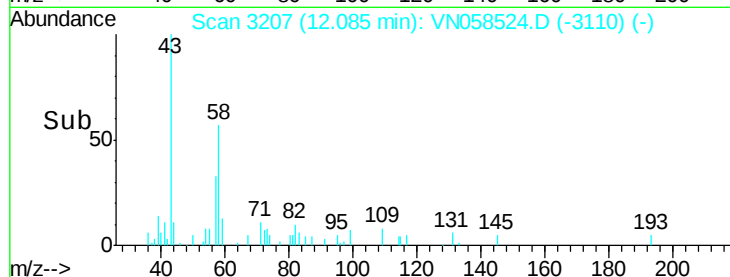
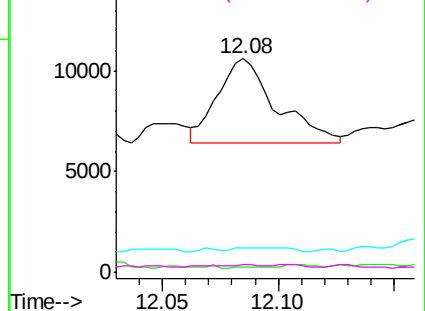


Abundance Ion 43.00 (42.70 to 43.70): VNC

Ion 70.00 (69.70 to 70.70): VNC

Ion 55.00 (54.70 to 55.70): VNC

Ion 61.00 (60.70 to 61.70): VNC



#76

1,2,3-Trichloropropane

Concen: 36.048 ug/l

RT: 12.45 min Scan# 3322

Delta R.T. -0.10 min

Lab File: VN058524.D

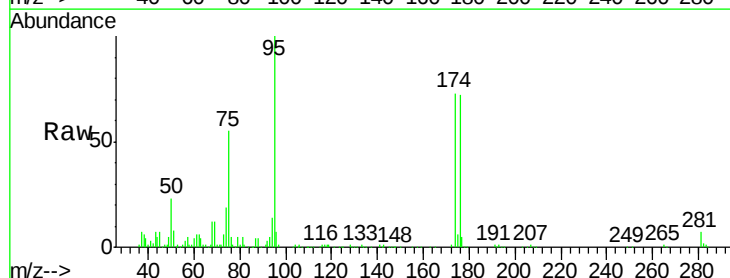
Acq: 3 Oct 2019 20:30

Tgt Ion: 75 Resp: 92831

Ion Ratio Lower Upper

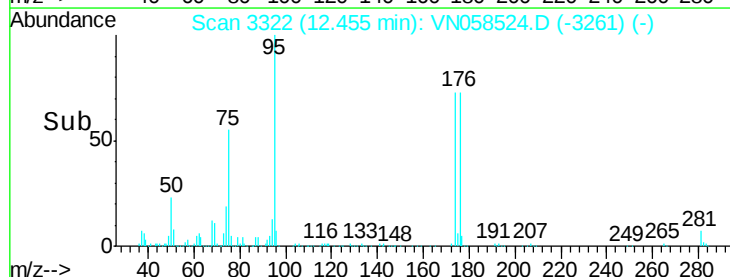
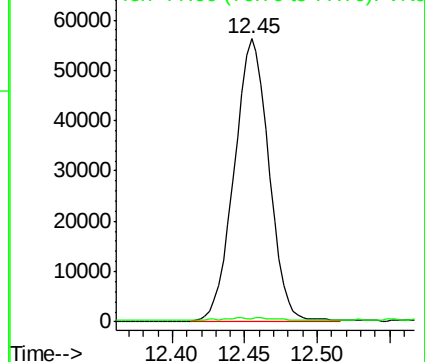
75 100

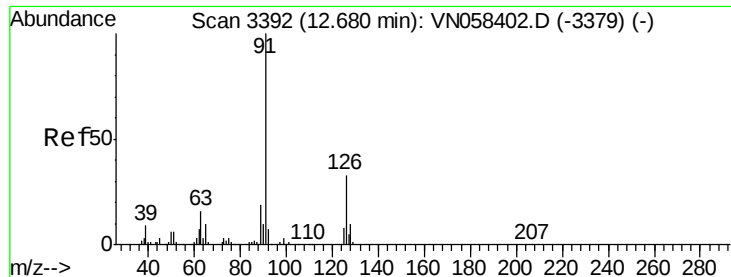
77 0.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNC

Ion 77.00 (76.70 to 77.70): VNC





#79

2-Chlorotoluene

Concen: 0.229 ug/l

RT: 12.63 min Scan# 3378

Delta R.T. -0.05 min

Lab File: VN058524.D

Acq: 3 Oct 2019 20:30

Instrument :

MSVOA_N

ClientSampled :

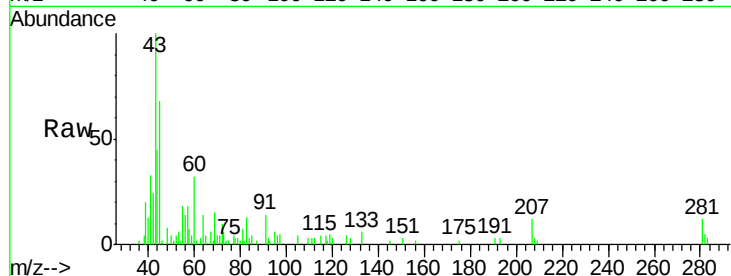
30459-61

Tot Ion: 91 Resp: 1660

Ion Ratio Lower Upper

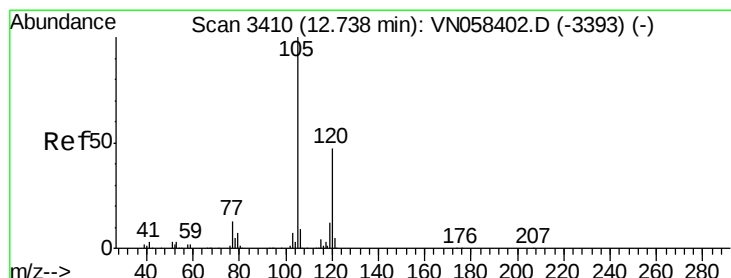
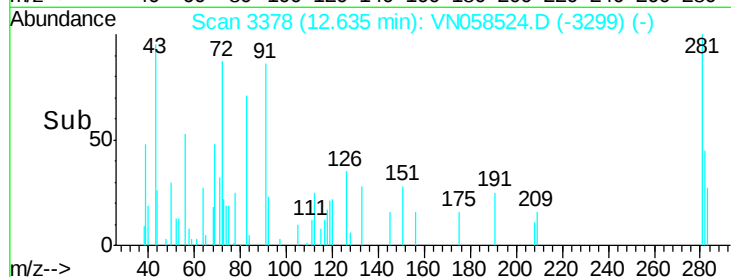
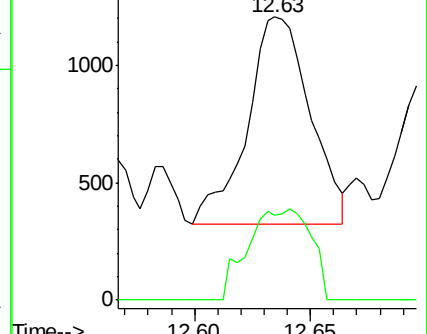
91 100

126 44.2 16.2 48.6



Abundance Ion 91.00 (90.70 to 91.70): VN058402.D (-3379) (-)

Ion 125.90 (125.60 to 126.60): VN058402.D (-3379) (-)



#80

1,3,5-Trimethylbenzene

Concen: 0.370 ug/l

RT: 12.78 min Scan# 3422

Delta R.T. 0.04 min

Lab File: VN058524.D

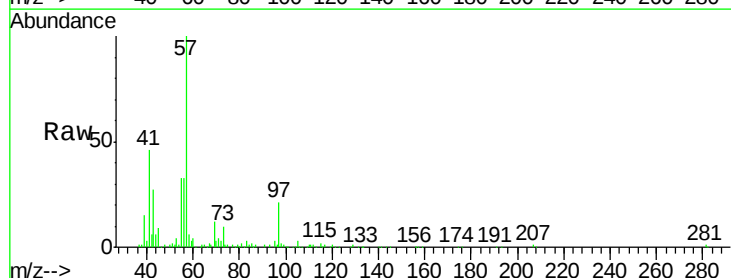
Acq: 3 Oct 2019 20:30

Tgt Ion: 105 Resp: 3231

Ion Ratio Lower Upper

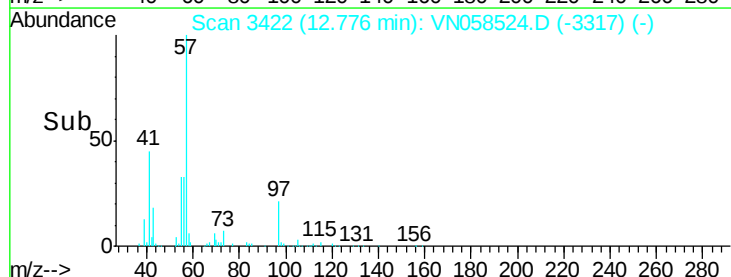
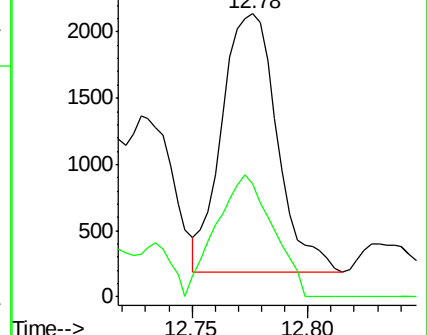
105 100

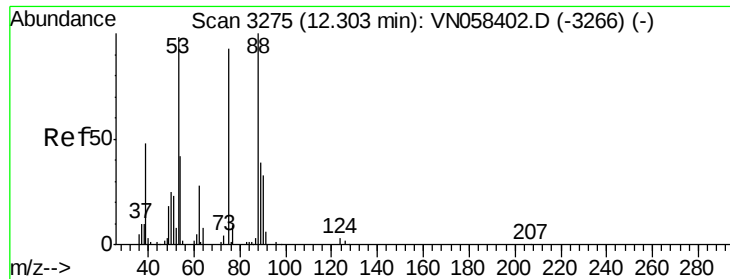
120 48.3 23.5 70.6



Abundance Ion 105.00 (104.70 to 105.70): VN058402.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN058402.D (-3393) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 109.482 ug/l

RT: 12.45 min Scan# 3322

Delta R.T. 0.15 min

Lab File: VN058524.D

Acq: 3 Oct 2019 20:30

Instrument :

MSVOA_N

ClientSampleId :

30459-61

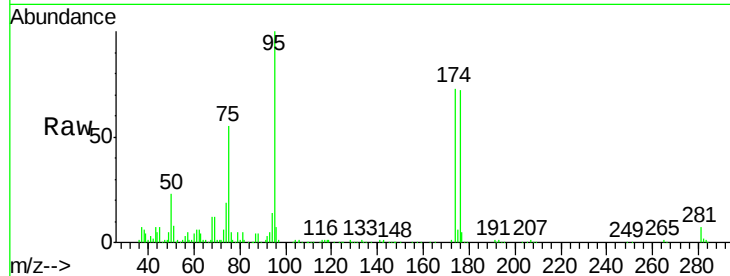
Tot Ion: 75 Resp: 92831

Ion Ratio Lower Upper

75 100

53 0.5 85.4 128.0#

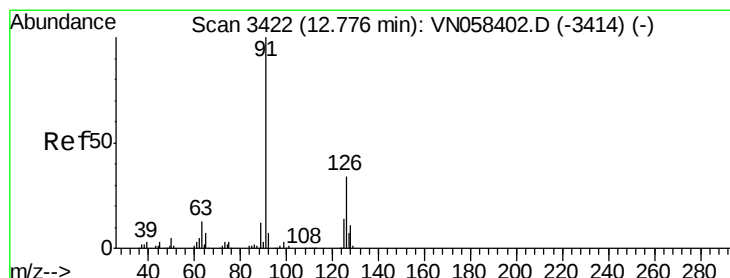
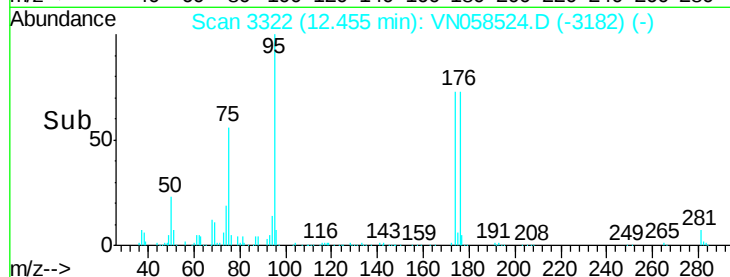
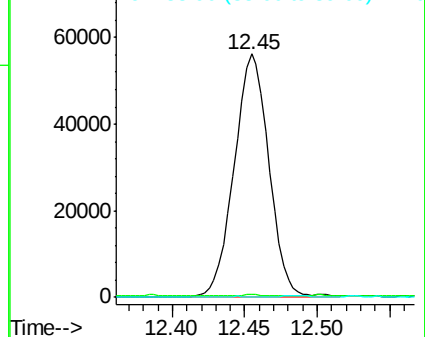
89 0.3 35.0 52.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#82

4-Chlorotoluene

Concen: 0.225 ug/l

RT: 12.63 min Scan# 3378

Delta R.T. -0.14 min

Lab File: VN058524.D

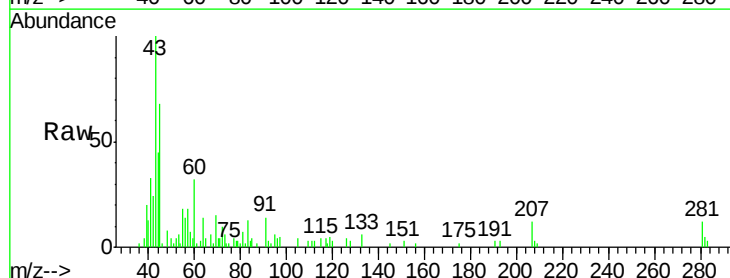
Acq: 3 Oct 2019 20:30

Tgt Ion: 91 Resp: 1660

Ion Ratio Lower Upper

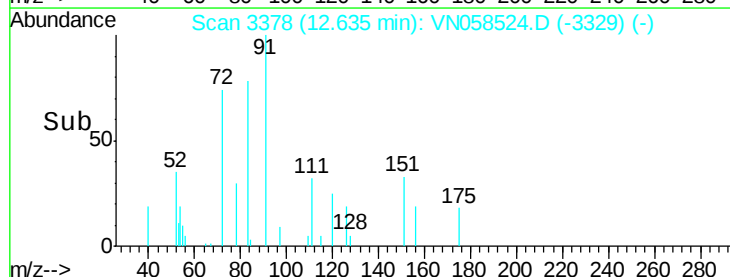
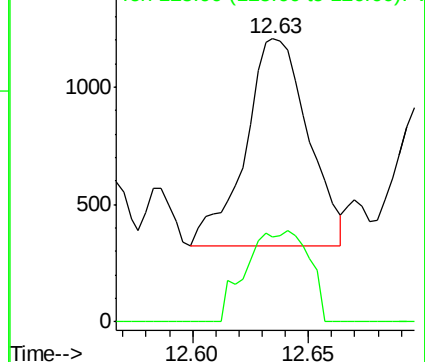
91 100

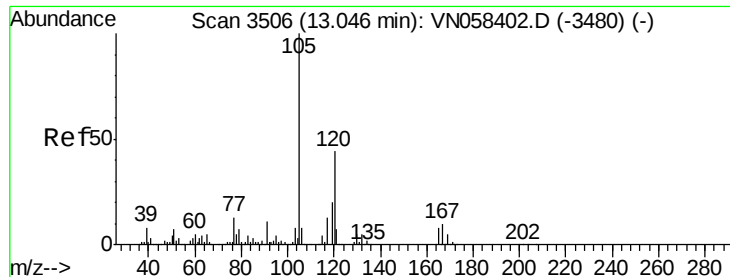
126 44.2 15.9 47.7



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





#84

1,2,4-Trimethylbenzene

Concen: 1.394 ug/l

RT: 13.08 min Scan# 3515

Delta R.T. 0.03 min

Lab File: VN058524.D

Acq: 3 Oct 2019 20:30

Instrument :

MSVOA_N

ClientSampleId :

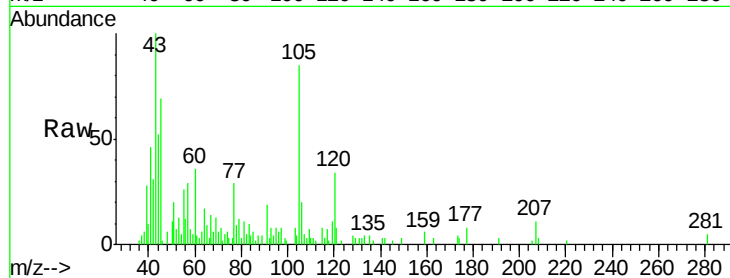
30459-61

Tot Ion:105 Resp: 12179

Ion Ratio Lower Upper

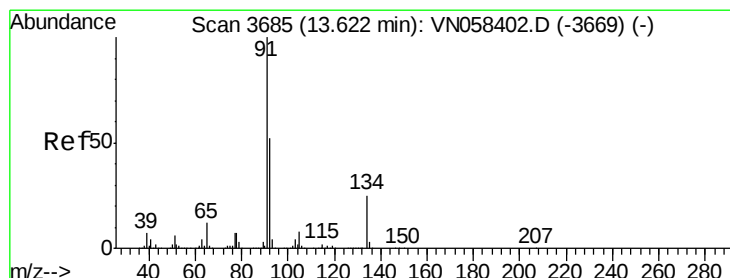
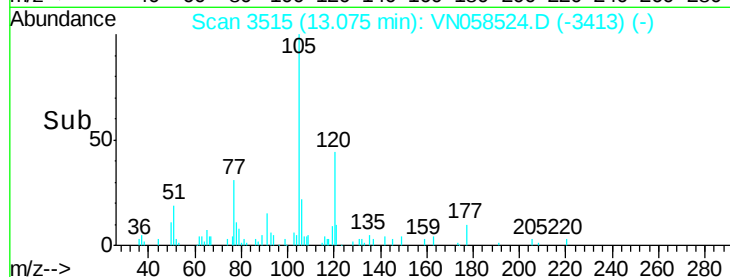
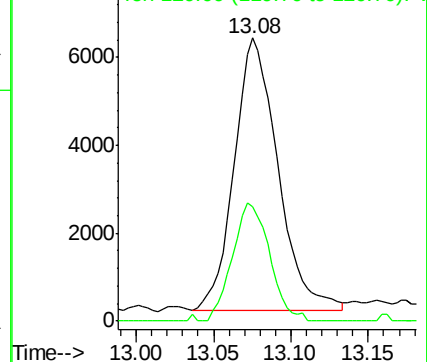
105 100

120 36.9 21.7 65.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#89

n-Butylbenzene

Concen: 0.640 ug/l

RT: 13.82 min Scan# 3746

Delta R.T. 0.20 min

Lab File: VN058524.D

Acq: 3 Oct 2019 20:30

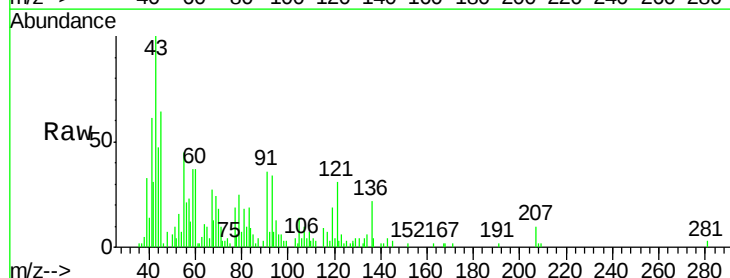
Tgt Ion: 91 Resp: 4946

Ion Ratio Lower Upper

91 100

92 26.3 25.7 77.1

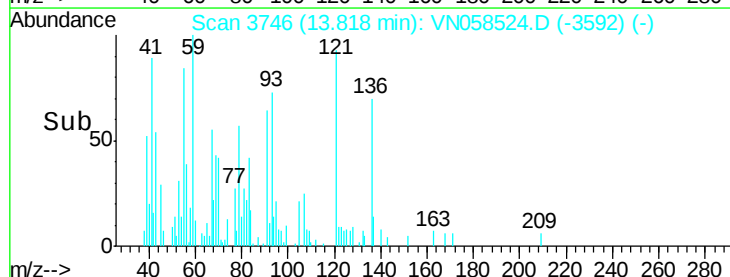
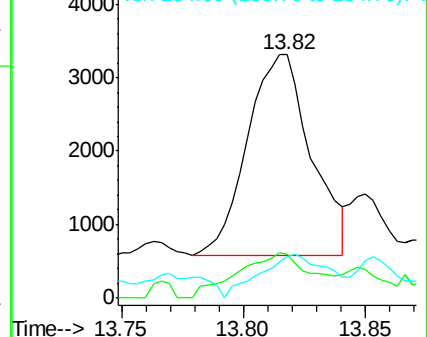
134 23.8 12.2 36.6

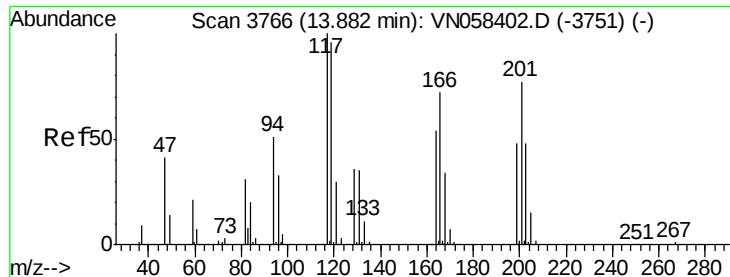


Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V

Ion 134.00 (133.70 to 134.70): V





#90

Hexachloroethane

Concen: 0.246 ug/l

RT: 13.87 min Scan# 3761

Delta R.T. -0.02 min

Lab File: VN058524.D

Acq: 3 Oct 2019 20:30

Instrument :

MSVOA_N

ClientSampleId :

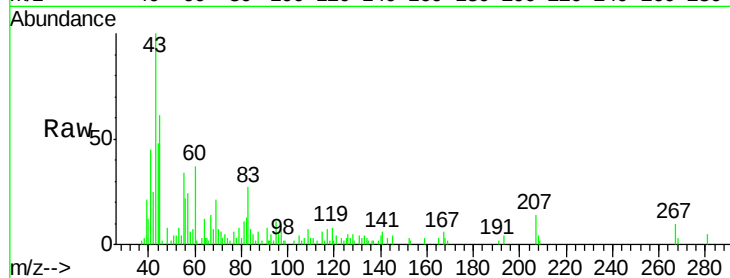
30459-61

Tot Ion:117 Resp: 315

Ion Ratio Lower Upper

117 100

201 0.0 38.6 116.0#

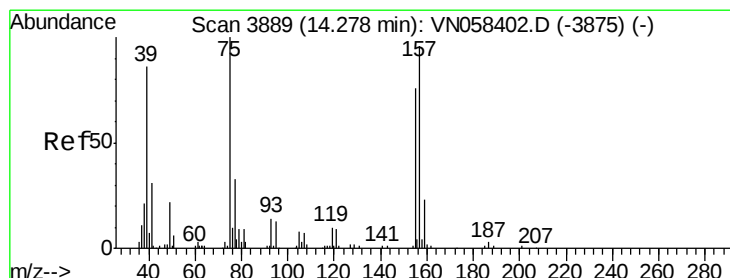
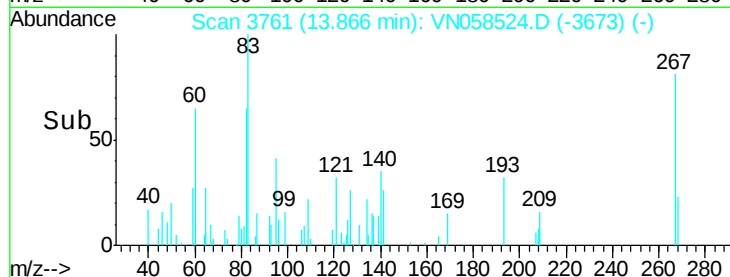


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

13.87

Time-->



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.497 ug/l

RT: 14.29 min Scan# 3892

Delta R.T. 0.01 min

Lab File: VN058524.D

Acq: 3 Oct 2019 20:30

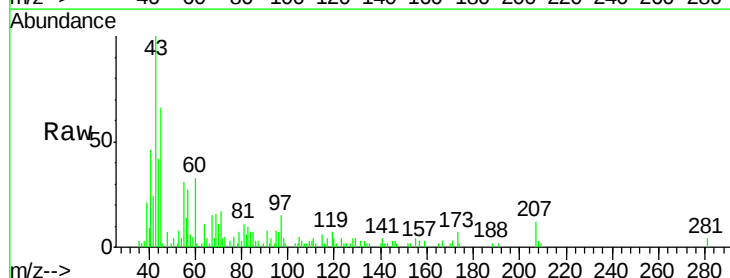
Tgt Ion: 75 Resp: 270

Ion Ratio Lower Upper

75 100

155 17.4 39.2 117.6#

157 110.4 48.7 146.1



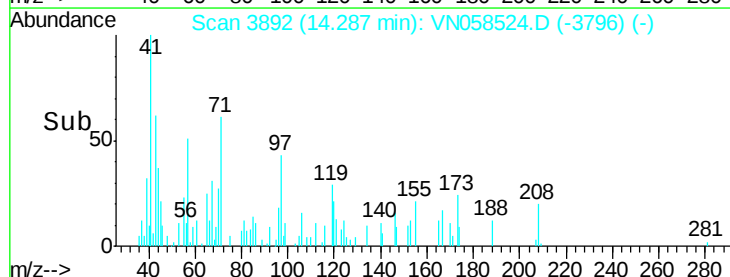
Abundance Ion 74.90 (74.60 to 75.60): V

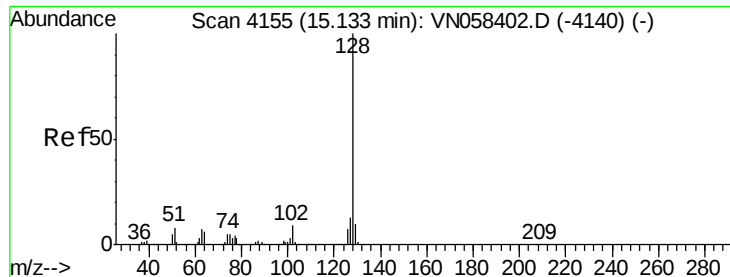
Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

14.29

Time-->





#95

Naphthalene

Concen: 3.644 ug/l

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN058524.D

Acq: 3 Oct 2019 20:30

Instrument :

MSVOA_N

ClientSampled :

30459-61

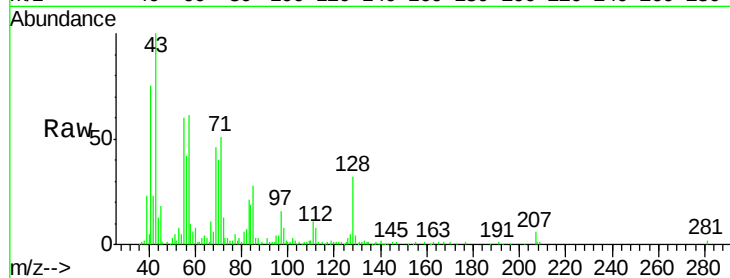
Tot Ion:128 Resp: 25286

Ion Ratio Lower Upper

128 100

127 15.9 10.2 15.4#

129 11.9 8.3 12.5



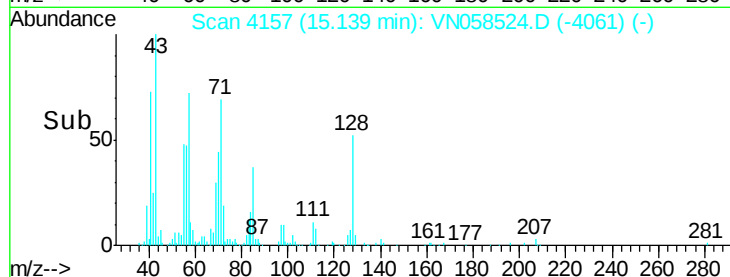
Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

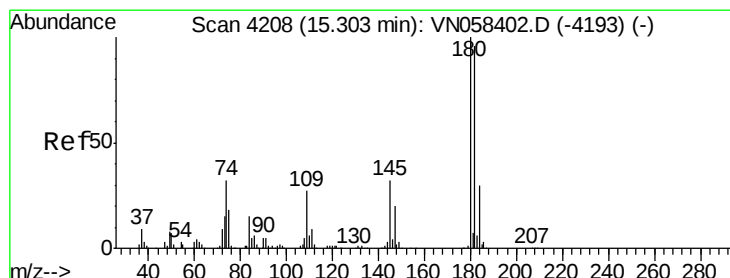
Ion 129.00 (128.70 to 129.70): V

15.14

Time-->



Time-->



#96

1,2,3-Trichlorobenzene

Concen: 0.335 ug/l

RT: 15.30 min Scan# 4207

Delta R.T. -0.00 min

Lab File: VN058524.D

Acq: 3 Oct 2019 20:30

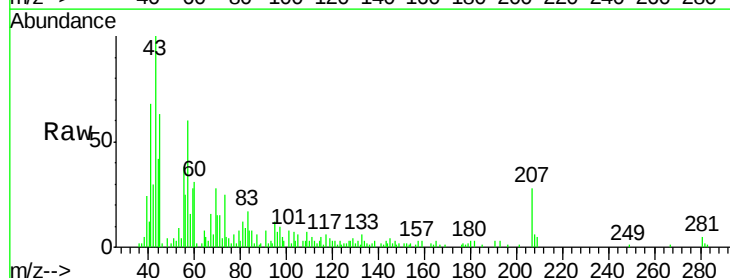
Tgt Ion:180 Resp: 850

Ion Ratio Lower Upper

180 100

182 0.0 48.3 144.9#

145 14.0 16.1 48.3#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

15.30

Time-->

