

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN081319\
 Data File : VN057257.D
 Acq On : 13 Aug 2019 19:48
 Operator : JC/SP
 Sample : K4290-07
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WP-4

Quant Time: Aug 14 06:32:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081319W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 14 06:25:03 2019
 Response via : Initial Calibration

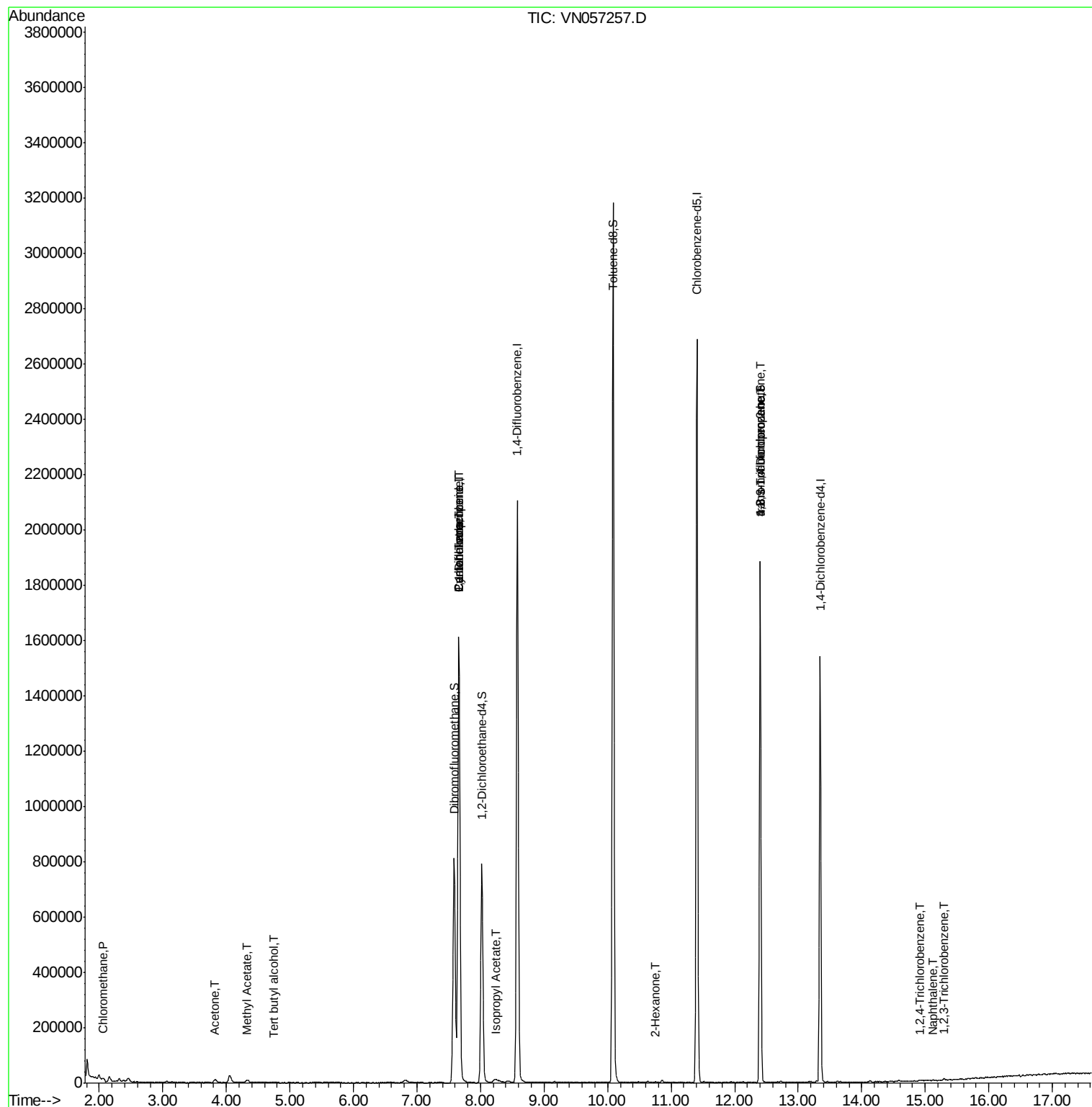
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	1480157	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	2062528	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1694572	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	455495	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.02	65	677852	45.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.80%	
35) Dibromofluoromethane	7.58	113	624240	47.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.80%	
50) Toluene-d8	10.09	98	2353278	48.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.98%	
62) 4-Bromofluorobenzene	12.40	95	642225	38.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	77.98%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.05	50	2973	0.210	ug/l	100
11) Tert butyl alcohol	4.75	59	697	0.347	ug/l #	87
16) Acetone	3.82	43	16176	3.160	ug/l	97
18) Methyl Acetate	4.32	43	18754	0.263	ug/l #	72
31) Cyclohexane	7.66	56	20736	0.980	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	87666	4.862	ug/l #	48
38) Carbon Tetrachloride	7.66	117	122899	6.416	ug/l #	15
43) Isopropyl Acetate	8.23	43	10018	0.420	ug/l #	52
59) 2-Hexanone	10.76	43	2007	0.202	ug/l #	52
73) Isopropylbenzene	12.25	105	1159	Below Cal		78
74) N-amyl acetate	12.07	43	546	Below Cal	#	40
75) 1,1,2,2-Tetrachloroethane	12.40	83	166	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	298331	36.467	ug/l #	100
77) Bromobenzene	12.53	156	397	Below Cal	#	38
78) n-propylbenzene	12.59	91	2047	Below Cal		92
79) 2-Chlorotoluene	12.68	91	1383	Below Cal		71
80) 1,3,5-Trimethylbenzene	12.74	105	1774	Below Cal		95
81) trans-1,4-Dichloro-2-buten	12.40	75	298331	87.973	ug/l #	16
83) tert-Butylbenzene	12.99	119	831	Below Cal	#	75
85) sec-Butylbenzene	13.18	105	1800	Below Cal	#	71
93) 1,2,4-Trichlorobenzene	14.91	180	1260	3.442	ug/l	75
94) Hexachlorobutadiene	15.01	225	460	Below Cal		84
95) Naphthalene	15.13	128	2353	0.238	ug/l #	79
96) 1,2,3-Trichlorobenzene	15.30	180	1960	4.569	ug/l	94

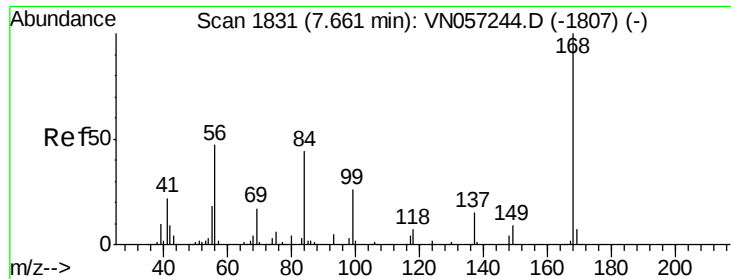
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Aug 14 06:25:03 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. -0.00 min

Lab File: VN057257.D

Acq: 13 Aug 2019 19:48

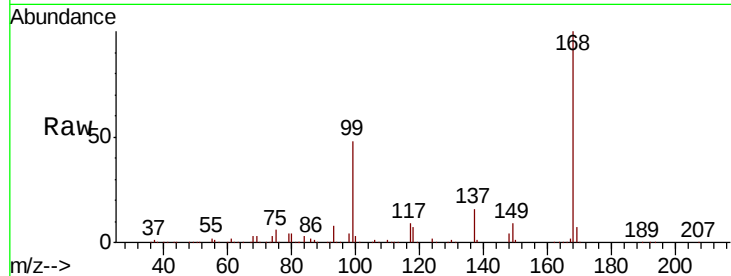
Instrument :
MSVOA_N
ClientSampled :
WP-4

Tgt Ion:168 Resp: 1480157

Ion Ratio Lower Upper

168 100

99 48.3 38.6 58.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.66

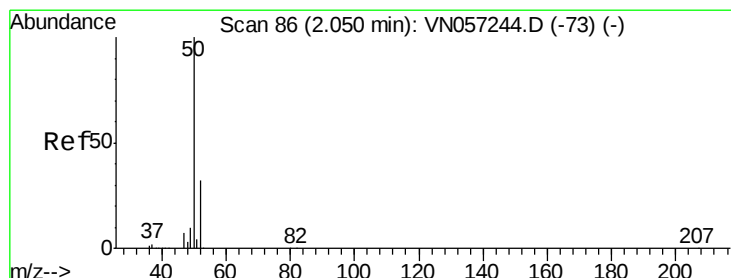
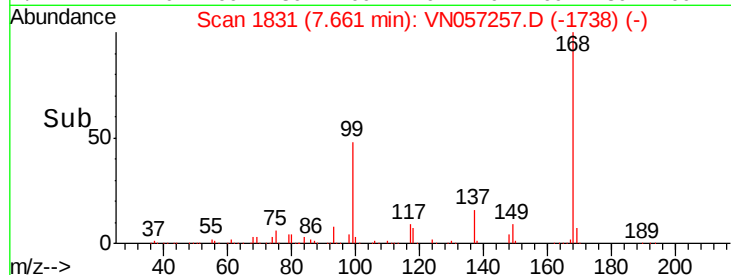
600000

400000

200000

0

Time-->



#3

Chloromethane

Concen: 0.210 ug/l

RT: 2.05 min Scan# 87

Delta R.T. 0.00 min

Lab File: VN057257.D

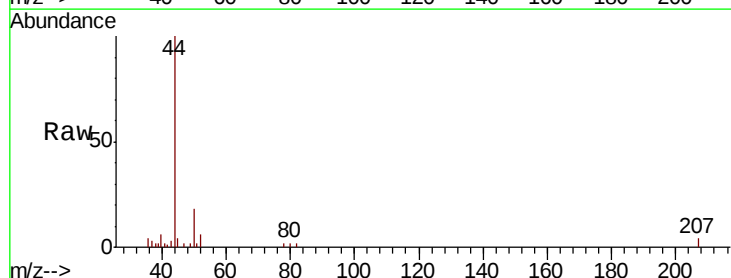
Acq: 13 Aug 2019 19:48

Tgt Ion: 50 Resp: 2973

Ion Ratio Lower Upper

50 100

52 32.1 25.6 38.4



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2.05

2000

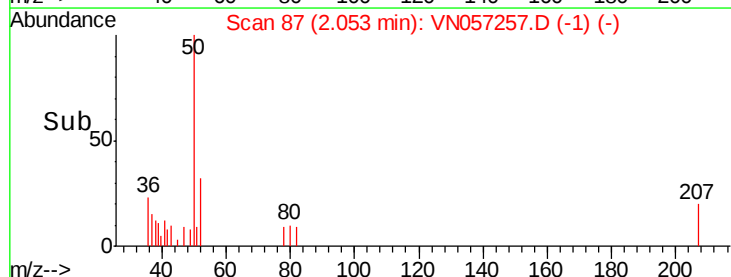
1500

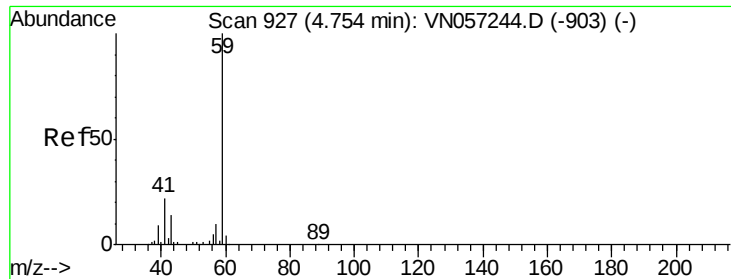
1000

500

0

Time-->

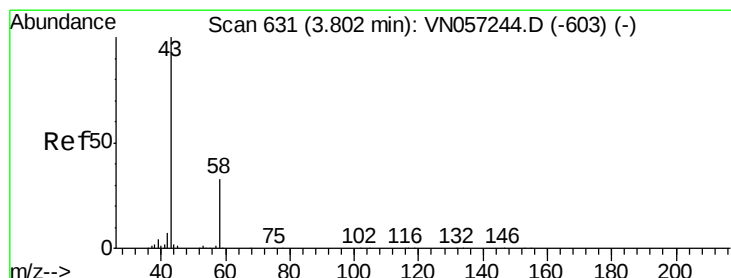
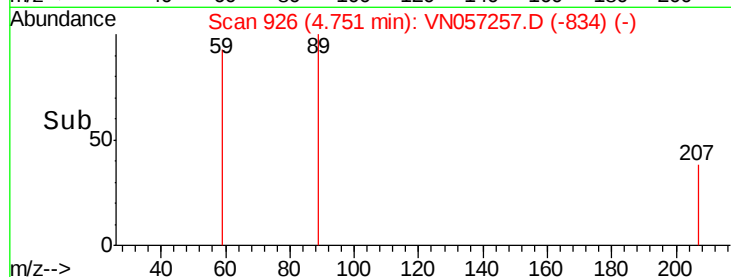
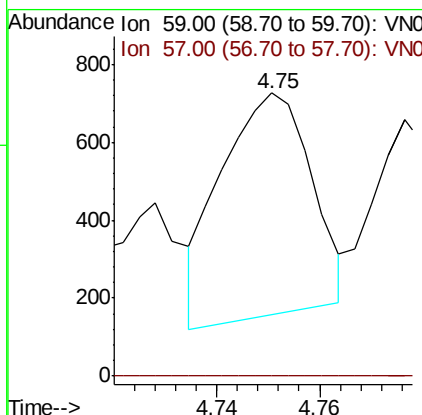
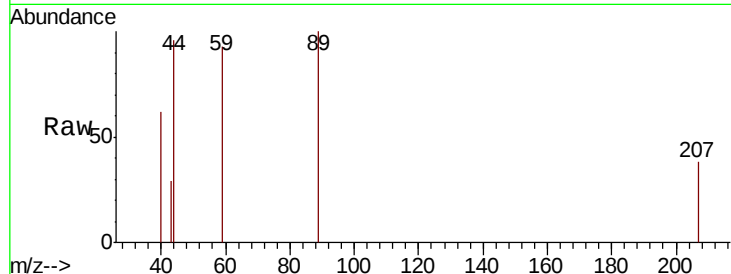




#11
Tert butyl alcohol
Concen: 0.347 ug/l
RT: 4.75 min Scan# 926
Delta R.T. -0.00 min
Lab File: VN057257.D
Acq: 13 Aug 2019 19:48

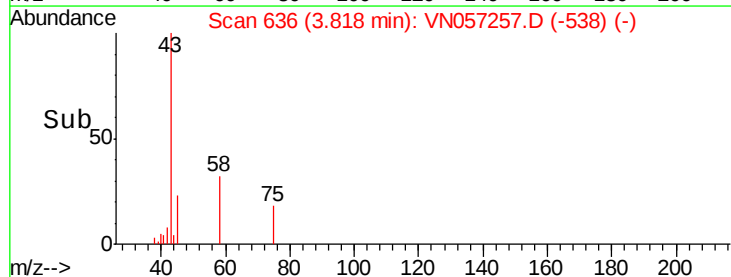
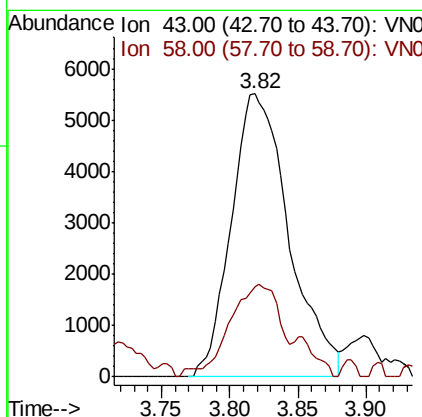
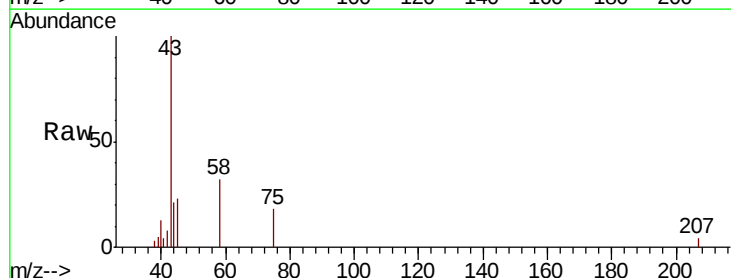
Instrument :
MSVOA_N
ClientSampled :
WP-4

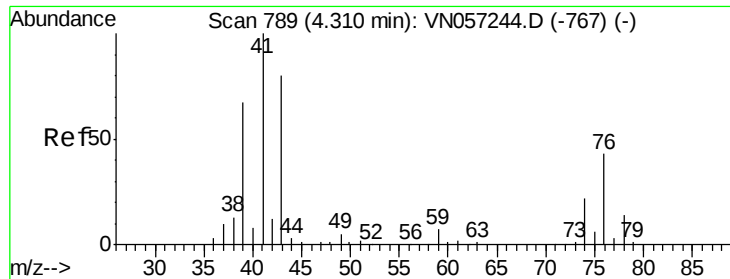
Tgt Ion: 59 Resp: 697
Ion Ratio Lower Upper
59 100
57 0.0 3.4 5.2#



#16
Acetone
Concen: 3.160 ug/l
RT: 3.82 min Scan# 636
Delta R.T. 0.02 min
Lab File: VN057257.D
Acq: 13 Aug 2019 19:48

Tgt Ion: 43 Resp: 16176
Ion Ratio Lower Upper
43 100
58 31.9 26.7 40.1

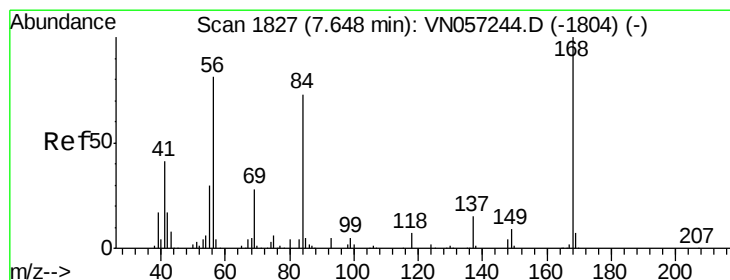
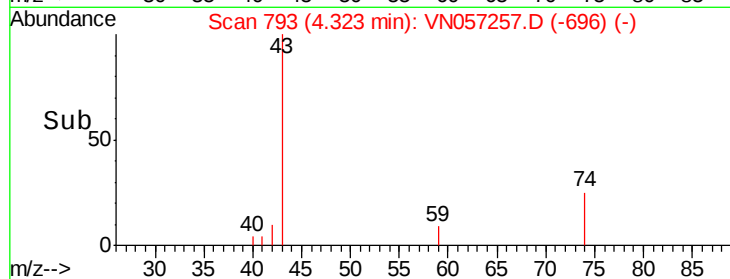
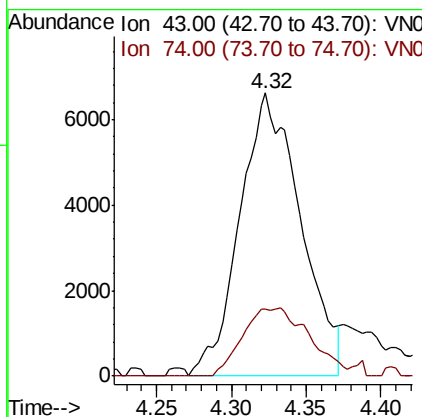
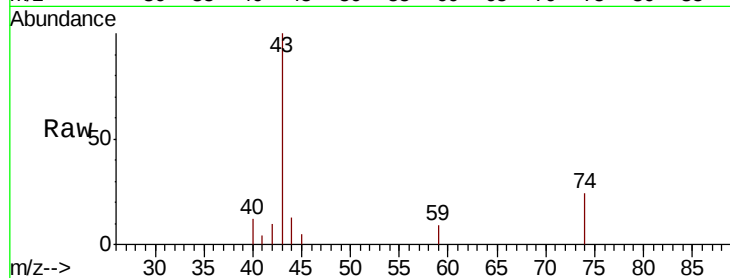




#18
Methyl Acetate
Concen: 0.263 ug/l
RT: 4.32 min Scan# 793
Delta R.T. 0.01 min
Lab File: VN057257.D
Acq: 13 Aug 2019 19:48

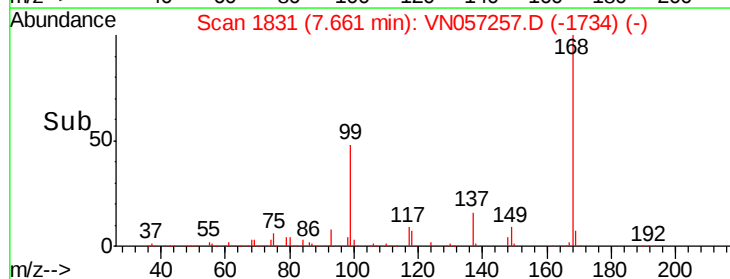
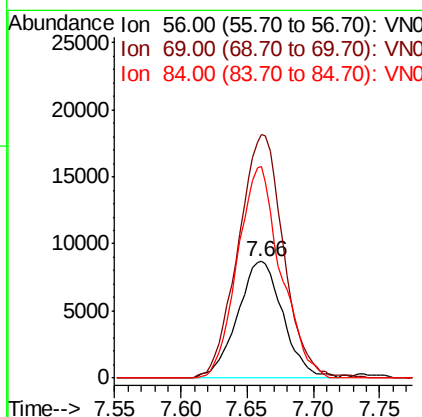
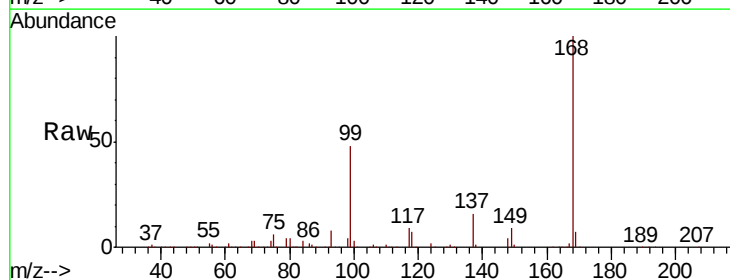
Instrument :
MSVOA_N
ClientSampleId :
WP-4

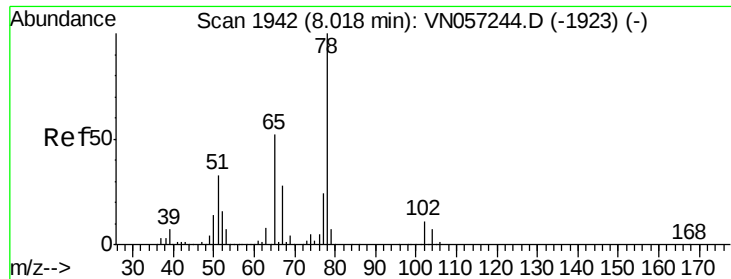
Tgt Ion: 43 Resp: 18754
Ion Ratio Lower Upper
43 100
74 11.8 20.6 31.0#



#31
Cyclohexane
Concen: 0.980 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN057257.D
Acq: 13 Aug 2019 19:48

Tgt Ion: 56 Resp: 20736
Ion Ratio Lower Upper
56 100
69 209.2 27.8 41.8#
84 181.4 72.0 108.0#





#33

1,2-Dichloroethane-d4

Concen: 45.398 ug/l

RT: 8.02 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN057257.D

Acq: 13 Aug 2019 19:48

Instrument :

MSVOA_N

ClientSampleId :

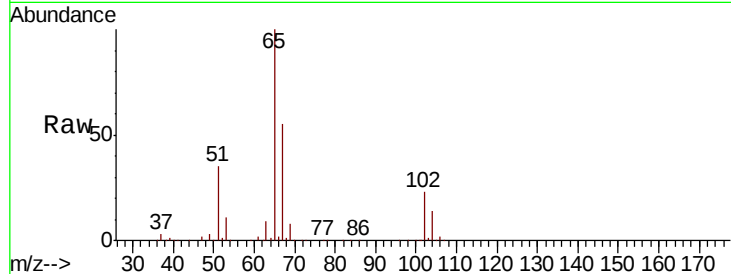
WP-4

Tgt Ion: 65 Resp: 677852

Ion Ratio Lower Upper

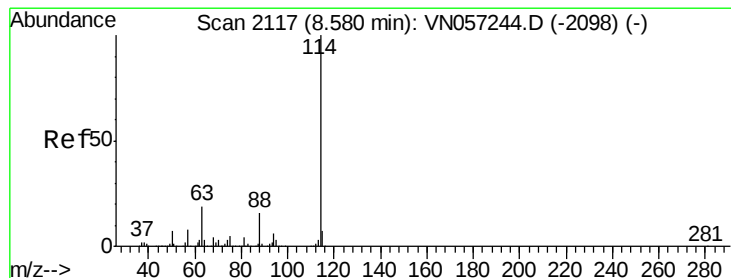
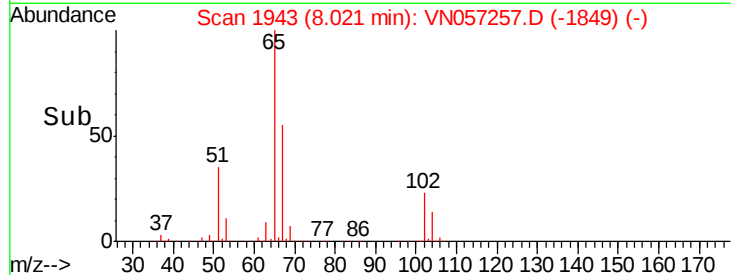
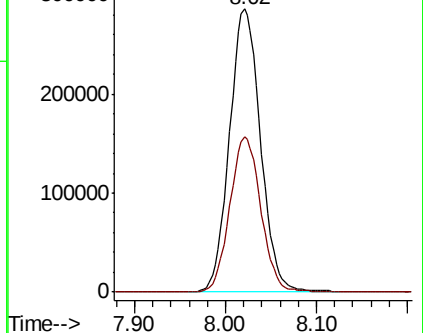
65 100

67 54.8 0.0 107.0



Abundance Ion 64.90 (64.60 to 65.60): VN057257.D (-1849) (-)

Ion 66.90 (66.60 to 67.60): VN057257.D (-1849) (-)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.58 min Scan# 2117

Delta R.T. -0.00 min

Lab File: VN057257.D

Acq: 13 Aug 2019 19:48

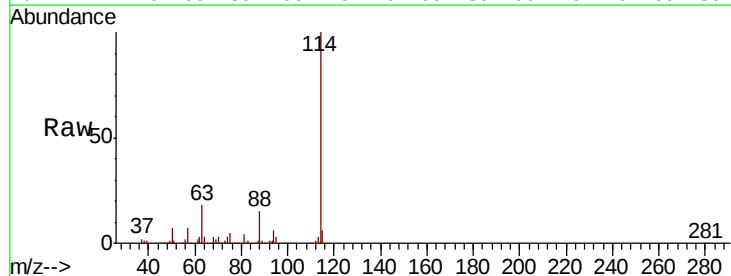
Tgt Ion: 114 Resp: 2062528

Ion Ratio Lower Upper

114 100

63 17.9 0.0 37.0

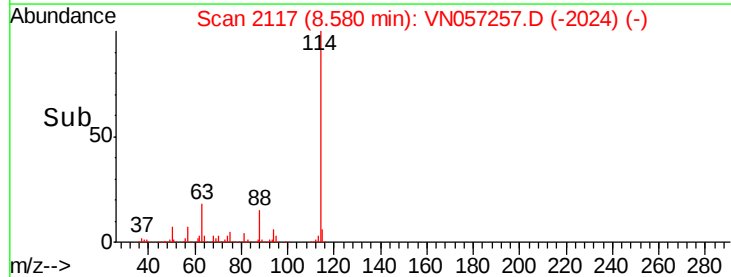
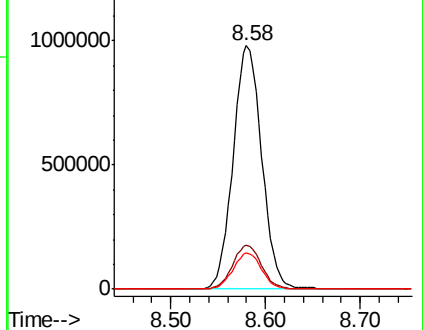
88 14.8 0.0 31.0

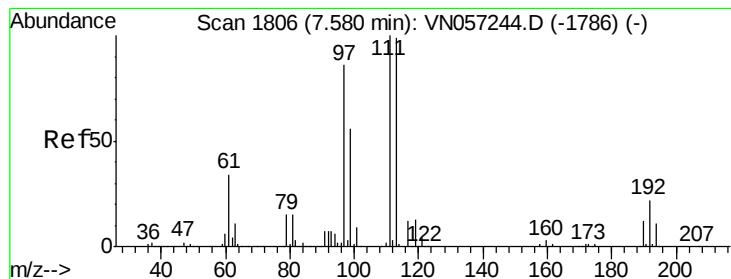


Abundance Ion 113.90 (113.60 to 114.60): VN057257.D (-2024) (-)

Ion 63.00 (62.70 to 63.70): VN057257.D (-2024) (-)

Ion 87.90 (87.60 to 88.60): VN057257.D (-2024) (-)





#35

Dibromofluoromethane

Concen: 47.400 ug/l

RT: 7.58 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN057257.D

Acq: 13 Aug 2019 19:48

Instrument :

MSVOA_N

ClientSampled :

WP-4

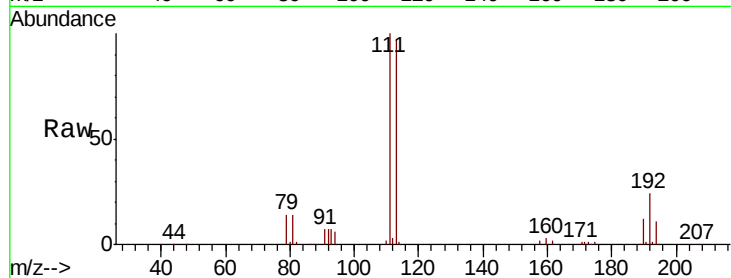
Tgt Ion:113 Resp: 624240

Ion Ratio Lower Upper

113 100

111 102.0 81.4 122.2

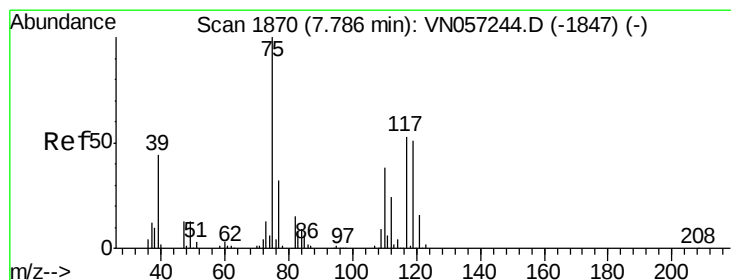
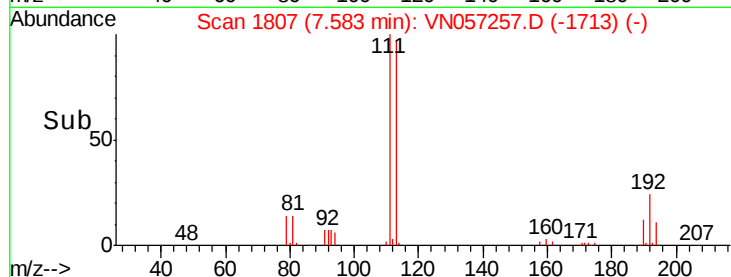
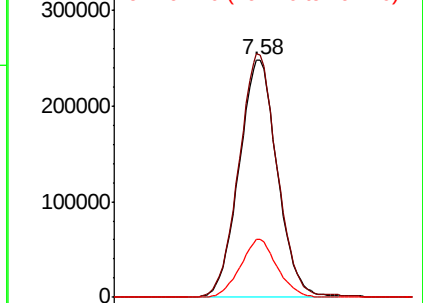
192 23.6 18.8 28.2



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.862 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.12 min

Lab File: VN057257.D

Acq: 13 Aug 2019 19:48

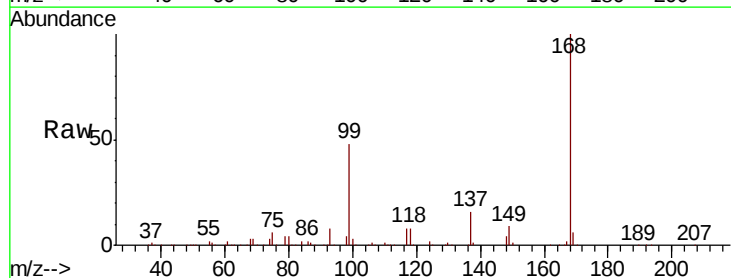
Tgt Ion: 75 Resp: 87666

Ion Ratio Lower Upper

75 100

110 9.1 19.1 57.1#

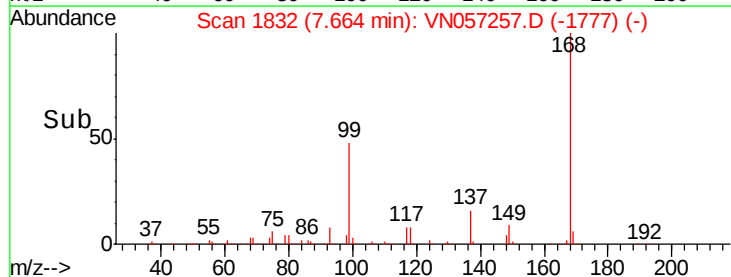
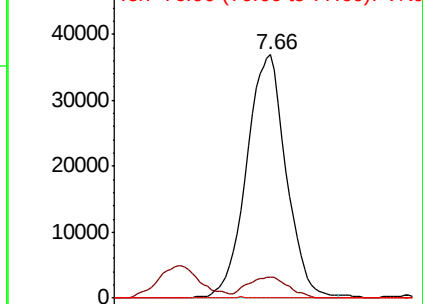
77 0.0 25.2 37.8#

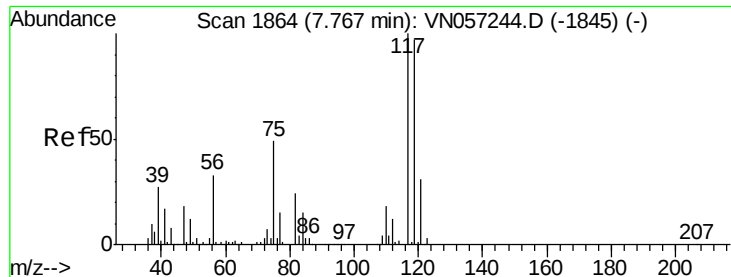


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.416 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN057257.D

Acq: 13 Aug 2019 19:48

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ClientSampleId :

WP-4

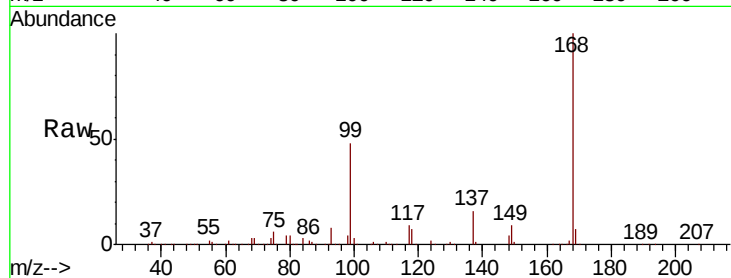
Tgt Ion: 117 Resp: 122899

Ion Ratio Lower Upper

117 100

119 4.9 77.8 116.6#

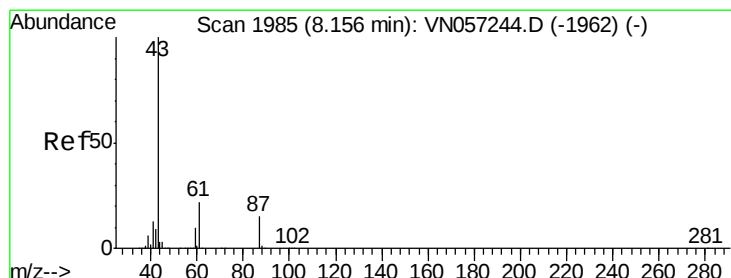
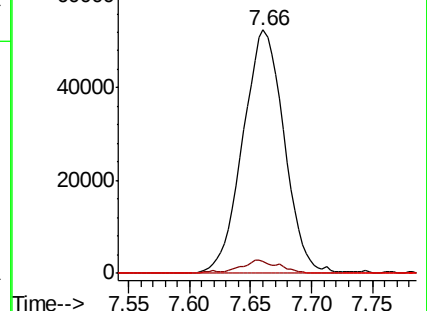
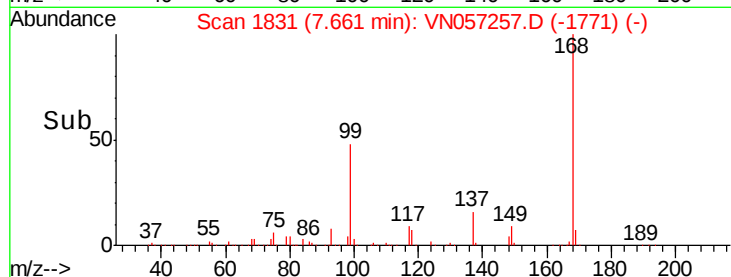
121 0.0 24.9 37.3#



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: 0.420 ug/l

RT: 8.23 min Scan# 2008

Delta R.T. 0.07 min

Lab File: VN057257.D

Acq: 13 Aug 2019 19:48

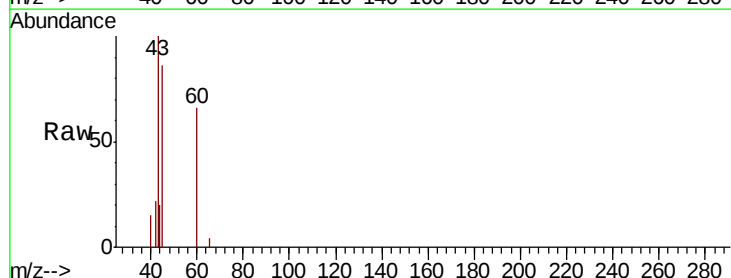
Tgt Ion: 43 Resp: 10018

Ion Ratio Lower Upper

43 100

61 0.0 23.5 35.3#

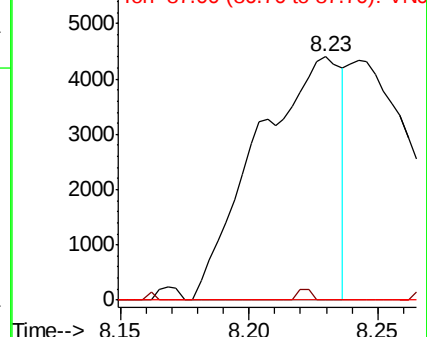
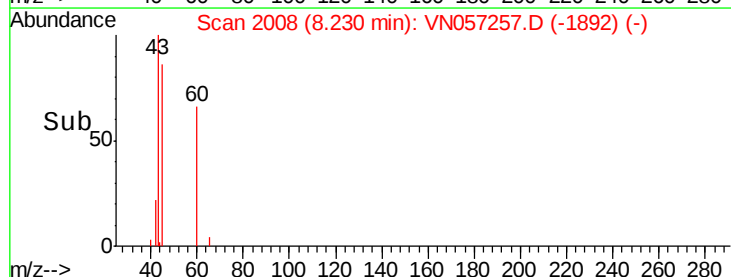
87 0.0 12.1 18.1#

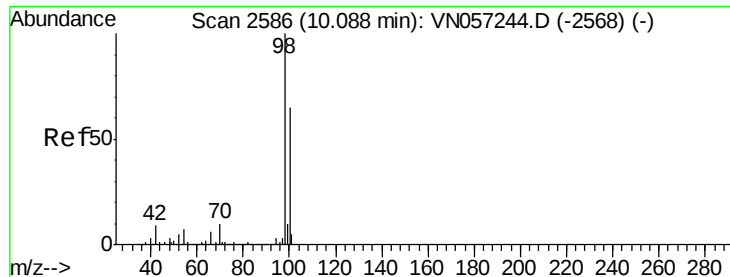


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#50

Toluene-d8

Concen: 48.991 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN057257.D

Acq: 13 Aug 2019 19:48

Instrument :

MSVOA_N

ClientSampled :

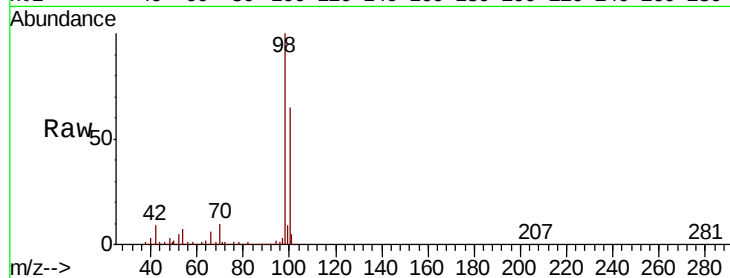
WP-4

Tgt Ion: 98 Resp: 2353278

Ion Ratio Lower Upper

98 100

100 65.0 51.8 77.6



Abundance Ion 98.00 (97.70 to 98.70): VN057244.D (-2568) (-)

Ion 100.00 (99.70 to 100.70): VN057257.D (-2493) (-)

10.09

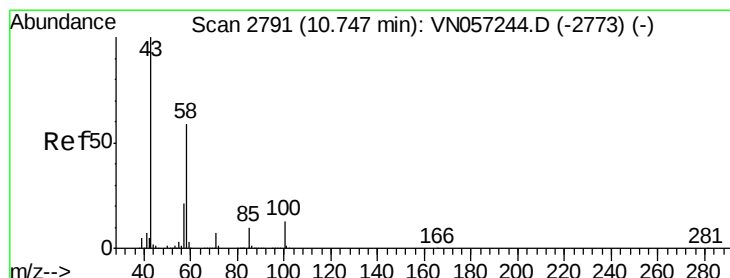
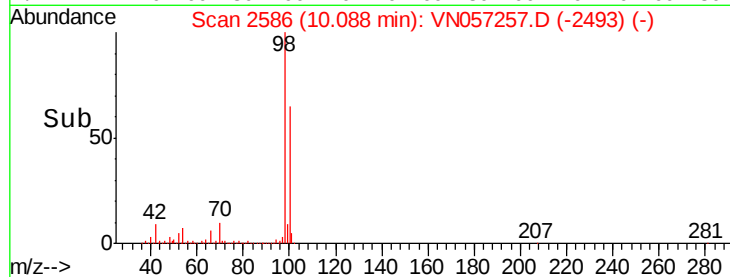
1500000

1000000

500000

0

Time-->



#59

2-Hexanone

Concen: 0.202 ug/l

RT: 10.76 min Scan# 2794

Delta R.T. 0.01 min

Lab File: VN057257.D

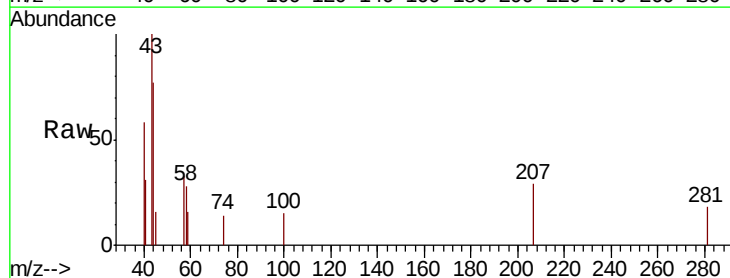
Acq: 13 Aug 2019 19:48

Tgt Ion: 43 Resp: 2007

Ion Ratio Lower Upper

43 100

58 22.9 29.1 87.4#



Abundance Ion 43.00 (42.70 to 43.70): VN057244.D (-2773) (-)

Ion 58.00 (57.70 to 58.70): VN057257.D (-2698) (-)

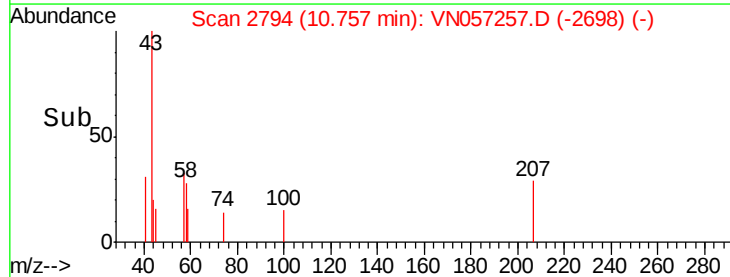
10.76

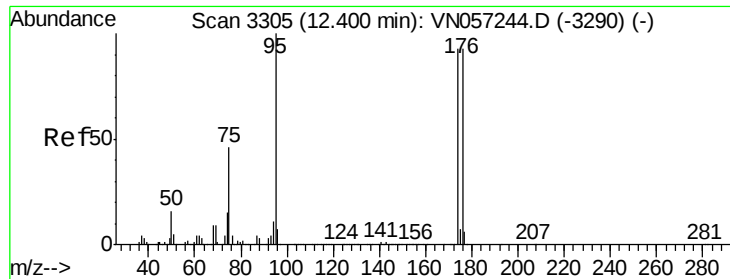
1000

500

0

Time-->

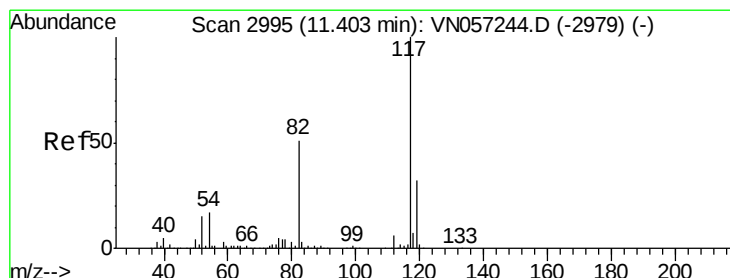
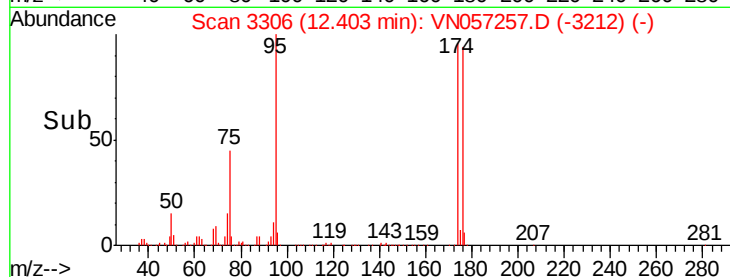
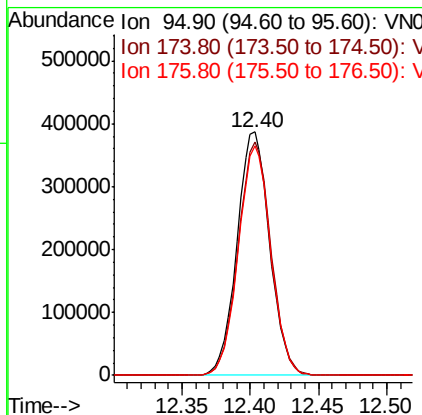
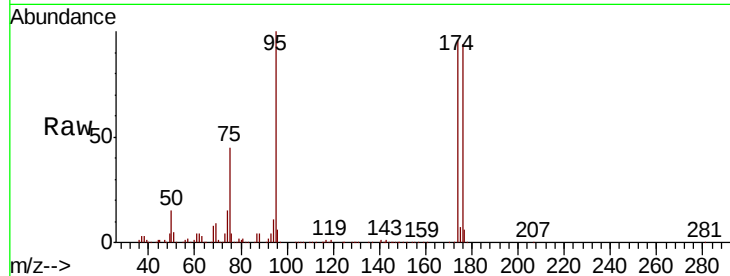




#62
4-Bromofluorobenzene
Concen: 38.986 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN057257.D
Acq: 13 Aug 2019 19:48

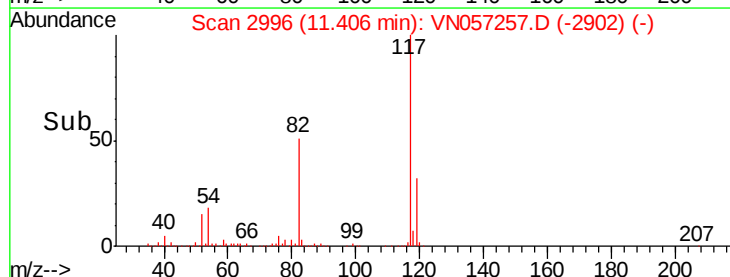
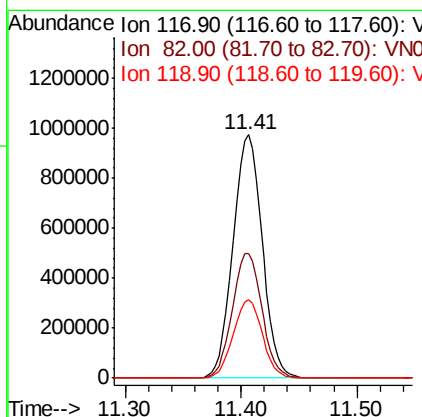
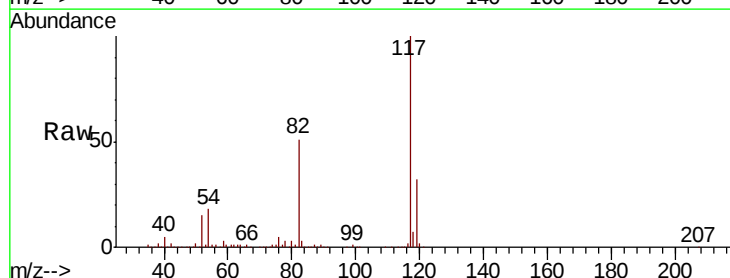
Instrument :
MSVOA_N
ClientSampled :
WP-4

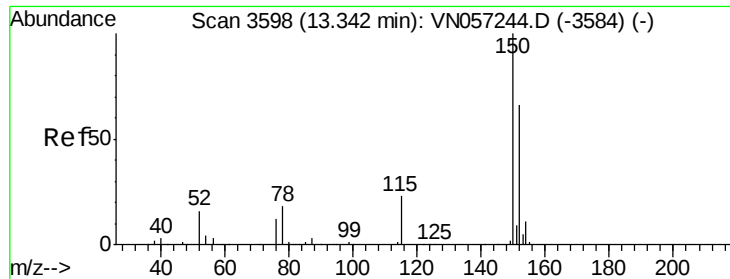
Tgt Ion: 95 Resp: 642225
Ion Ratio Lower Upper
95 100
174 95.8 0.0 187.6
176 93.5 0.0 185.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN057257.D
Acq: 13 Aug 2019 19:48

Tgt Ion: 117 Resp: 1694572
Ion Ratio Lower Upper
117 100
82 51.4 40.9 61.3
119 32.1 25.4 38.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN057257.D

Acq: 13 Aug 2019 19:48

Instrument :

MSVOA_N

ClientSampled :

WP-4

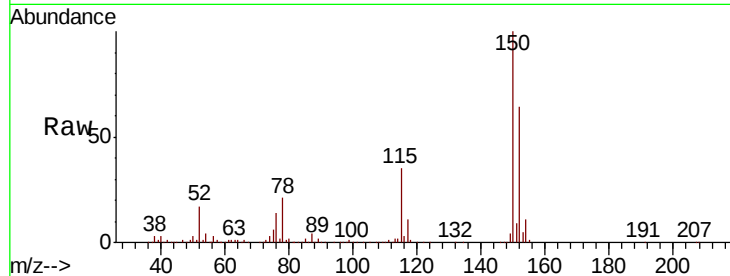
Tgt Ion:152 Resp: 455495

Ion Ratio Lower Upper

152 100

115 54.0 27.6 82.8

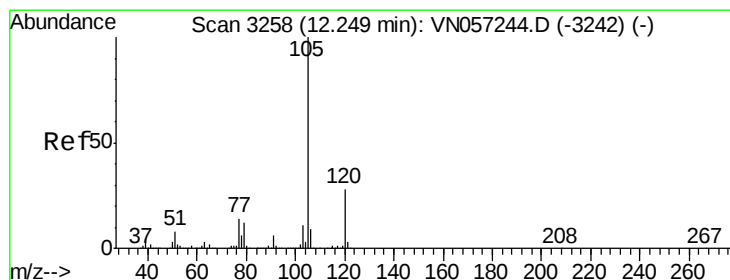
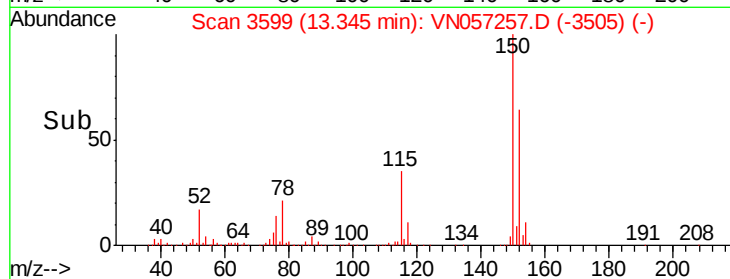
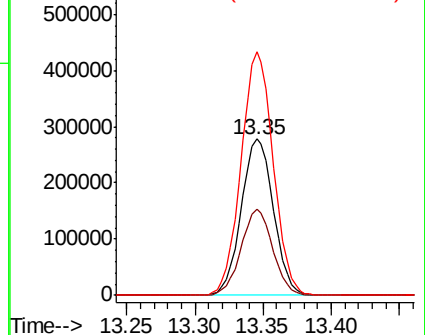
150 155.3 0.0 348.4



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



#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN057257.D

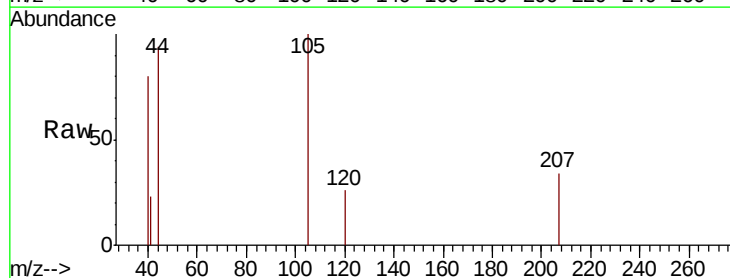
Acq: 13 Aug 2019 19:48

Tgt Ion:105 Resp: 1159

Ion Ratio Lower Upper

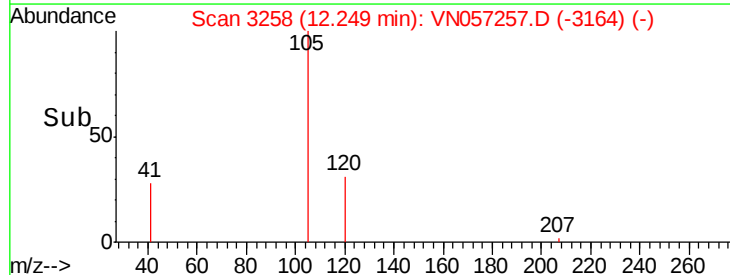
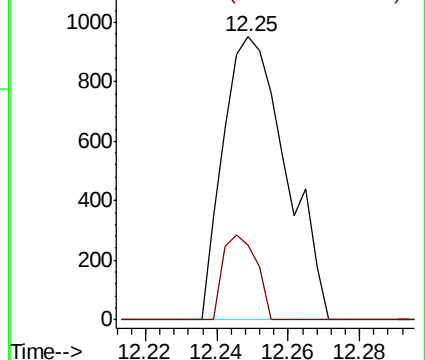
105 100

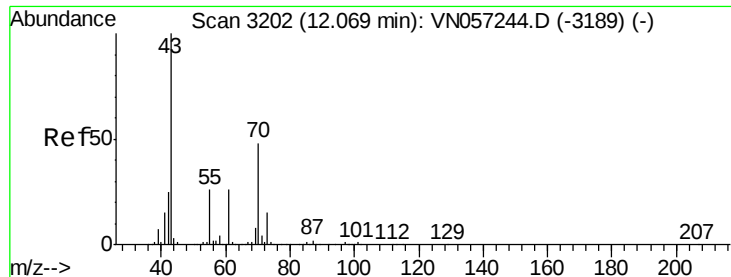
120 16.0 13.8 41.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#74

N-amyI acetate

Concen: Below Cal

RT: 12.07 min Scan# 3203

Delta R.T. 0.00 min

Lab File: VN057257.D

Acq: 13 Aug 2019 19:48

Instrument :

MSVOA_N

ClientSampleId :

WP-4

Tgt Ion: 43 Resp: 546

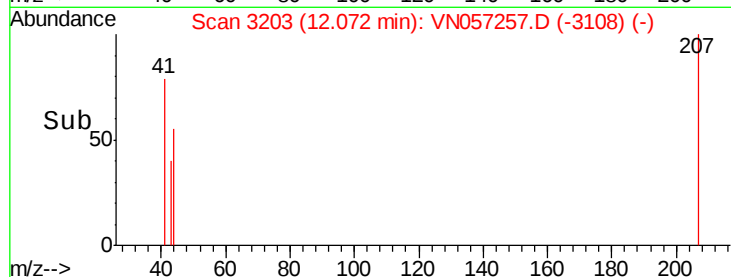
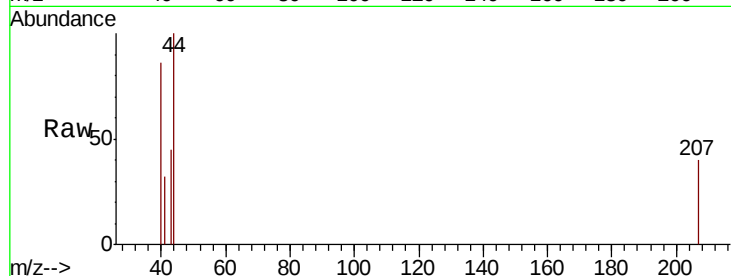
Ion Ratio Lower Upper

43 100

70 0.0 37.4 56.2#

55 0.0 21.0 31.4#

61 0.0 20.9 31.3#

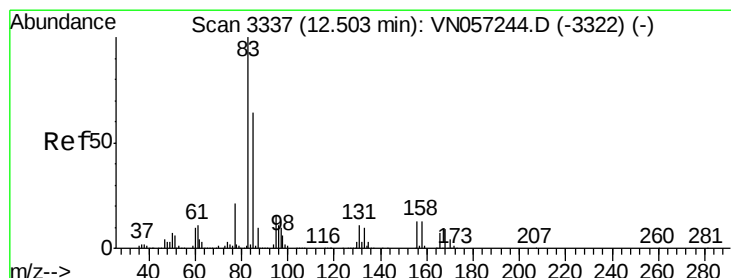
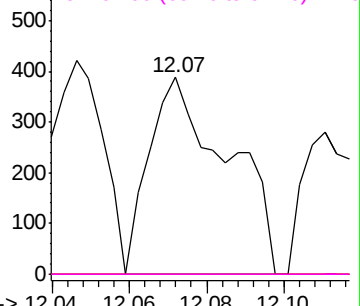


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3305

Delta R.T. -0.10 min

Lab File: VN057257.D

Acq: 13 Aug 2019 19:48

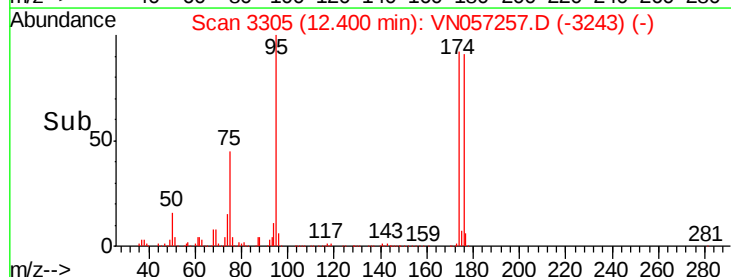
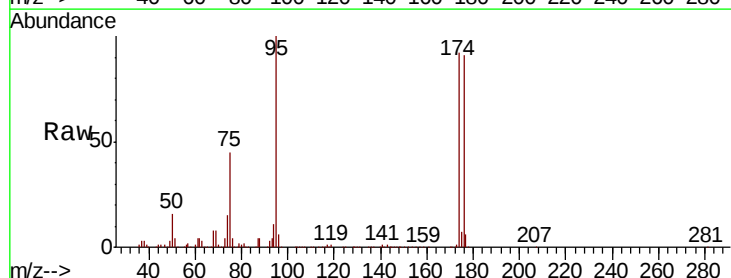
Tgt Ion: 83 Resp: 166

Ion Ratio Lower Upper

83 100

131 513.3 5.6 16.8#

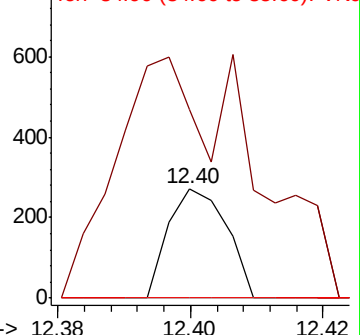
85 0.0 32.3 96.8#

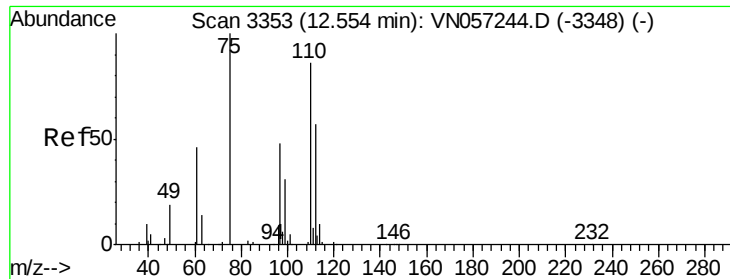


Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VN0





#76

1,2,3-Trichloropropane

Concen: 36.467 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057257.D

Acq: 13 Aug 2019 19:48

Instrument :

MSVOA_N

ClientSampled :

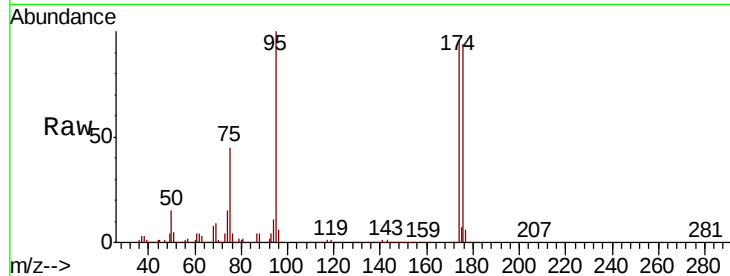
WP-4

Tgt Ion: 75 Resp: 298331

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

200000

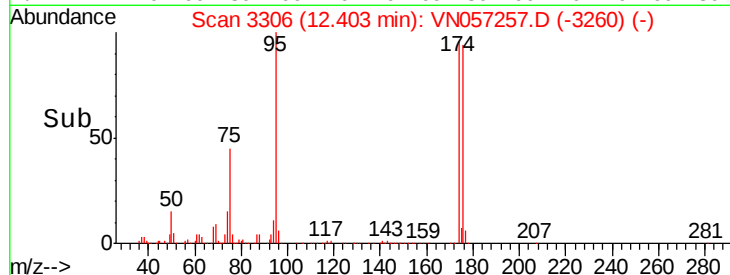
150000

100000

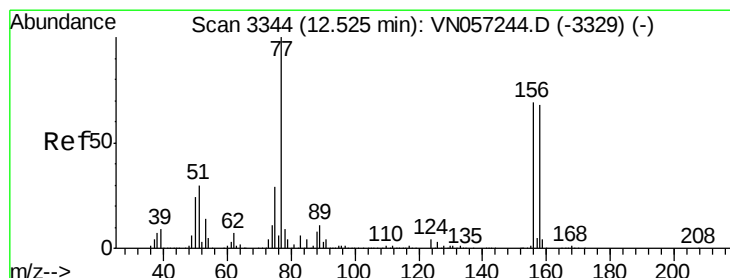
50000

0

12.30 12.40 12.50



Time-->



#77

Bromobenzene

Concen: Below Cal

RT: 12.53 min Scan# 3346

Delta R.T. 0.01 min

Lab File: VN057257.D

Acq: 13 Aug 2019 19:48

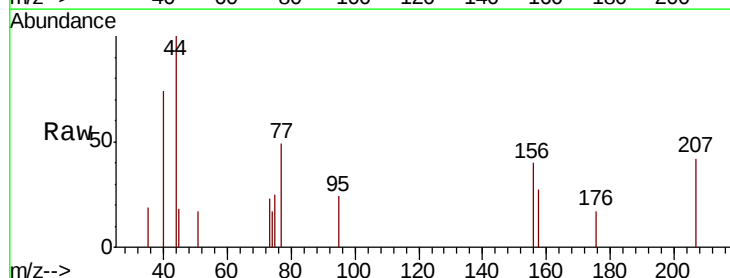
Tgt Ion: 156 Resp: 397

Ion Ratio Lower Upper

156 100

77 119.1 88.0 264.1

158 0.0 49.4 148.0#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V

600

500

400

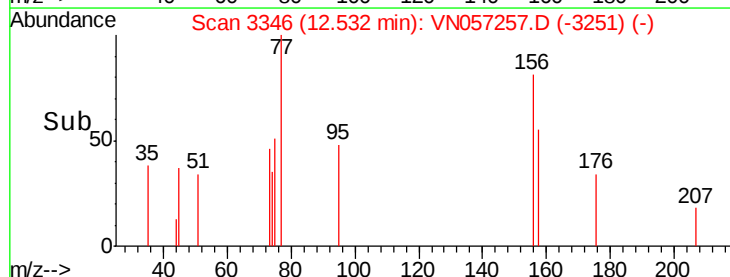
300

200

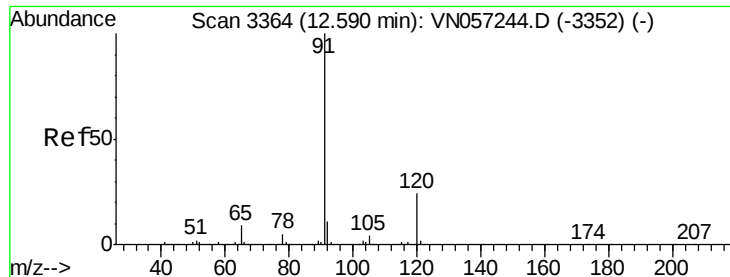
100

0

12.50 12.52 12.54



Time-->



#78

n-propylbenzene

Concen: Below Cal

RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN057257.D

Acq: 13 Aug 2019 19:48

Instrument :

MSVOA_N

ClientSampled :

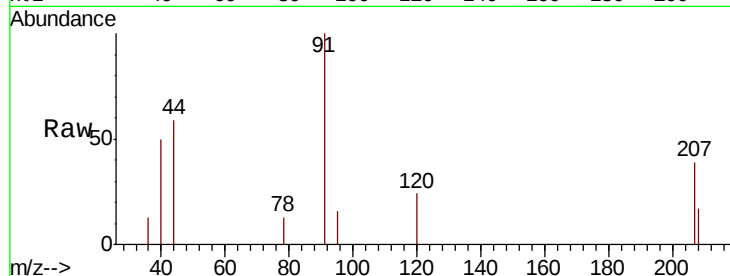
WP-4

Tgt Ion: 91 Resp: 2047

Ion Ratio Lower Upper

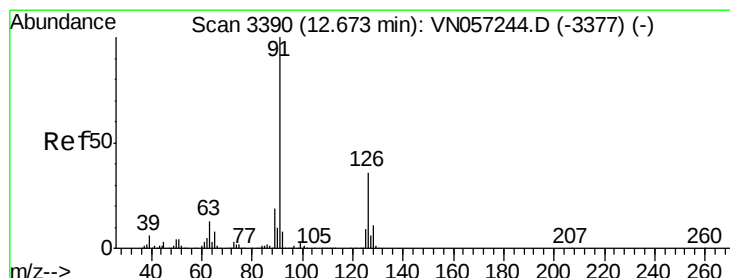
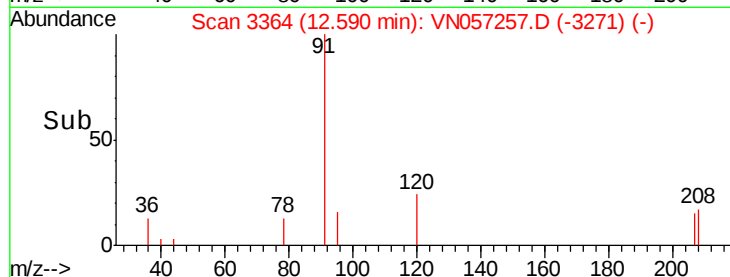
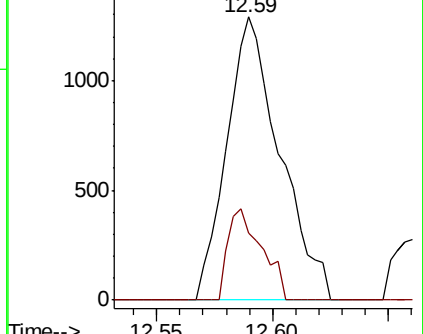
91 100

120 20.4 12.1 36.3



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN057257.D

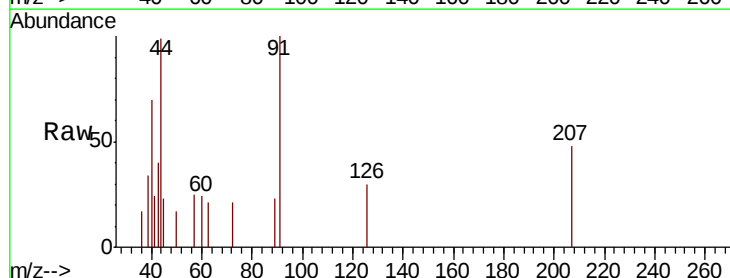
Acq: 13 Aug 2019 19:48

Tgt Ion: 91 Resp: 1383

Ion Ratio Lower Upper

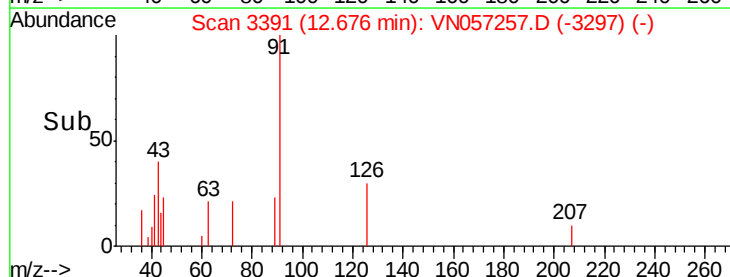
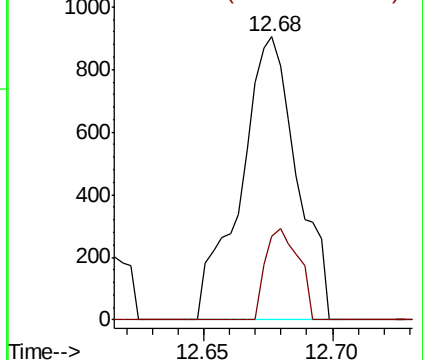
91 100

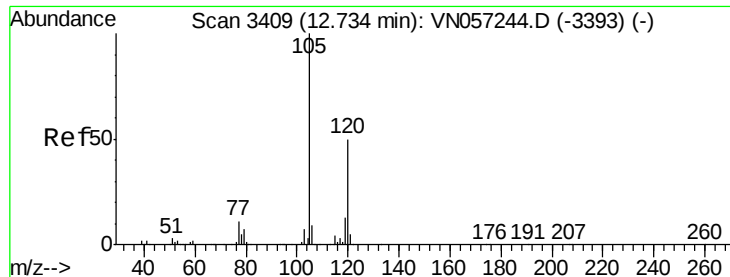
126 19.0 18.0 54.0



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

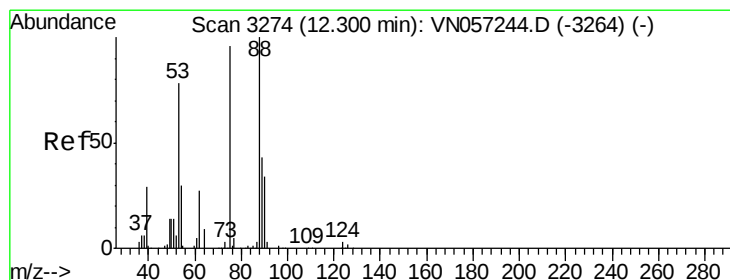
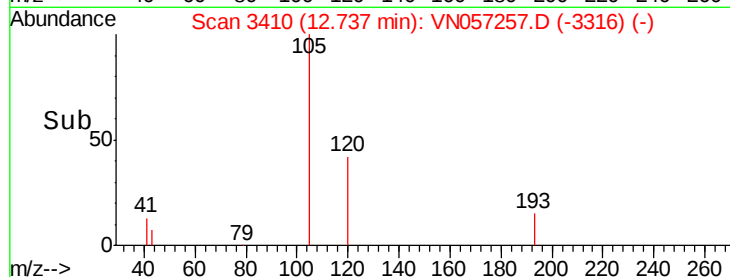
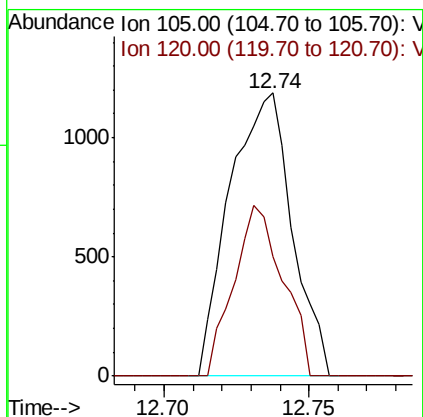
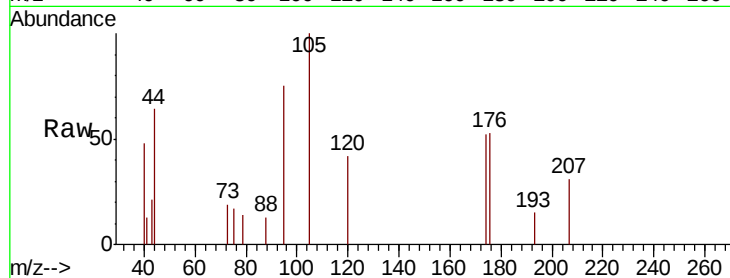




#80
 1,3,5-Trimethylbenzene
 Concen: Below Cal
 RT: 12.74 min Scan# 3410
 Delta R.T. 0.00 min
 Lab File: VN057257.D
 Acq: 13 Aug 2019 19:48

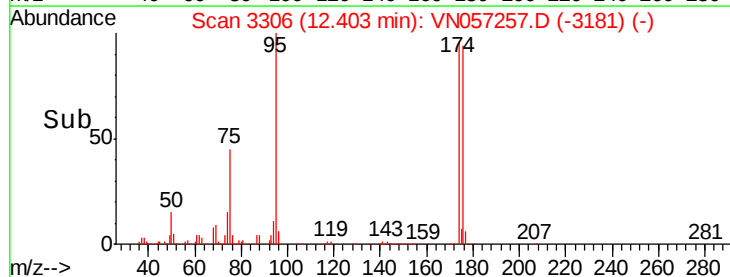
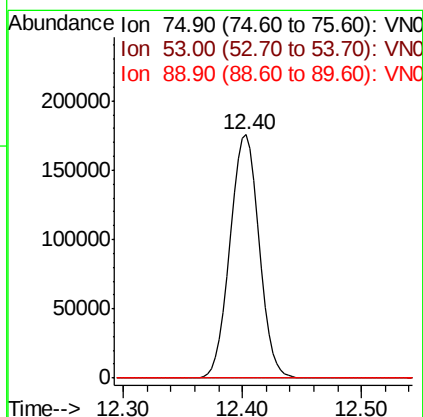
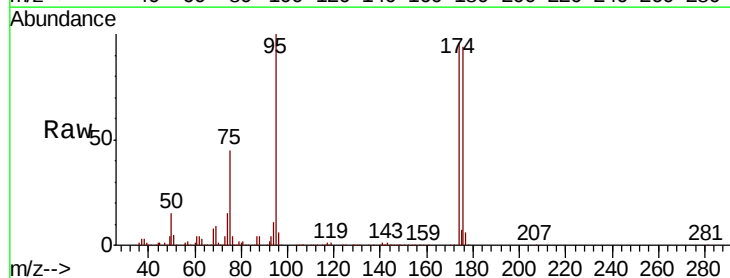
Instrument :
 MSVOA_N
 ClientSampled :
 WP-4

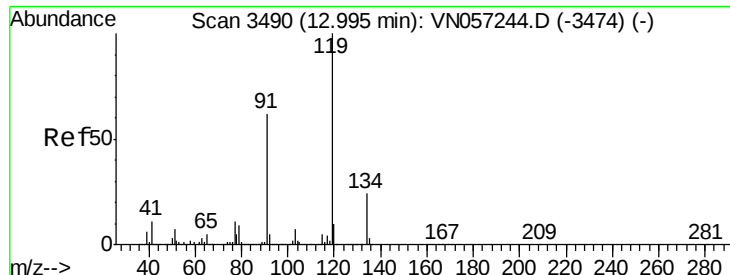
Tgt Ion: 105 Resp: 1774
 Ion Ratio Lower Upper
 105 100
 120 47.3 25.3 75.8



#81
 trans-1,4-Dichloro-2-butene
 Concen: 87.973 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.10 min
 Lab File: VN057257.D
 Acq: 13 Aug 2019 19:48

Tgt Ion: 75 Resp: 298331
 Ion Ratio Lower Upper
 75 100
 53 0.0 65.8 98.6#
 89 0.0 36.7 55.1#

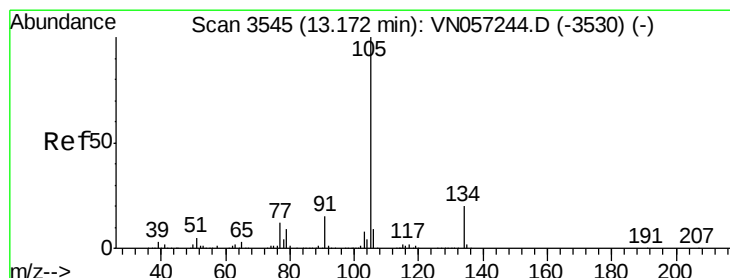
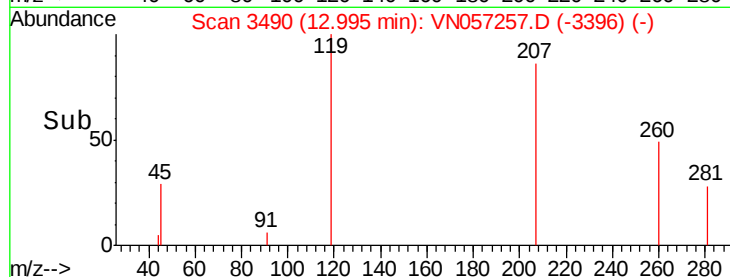
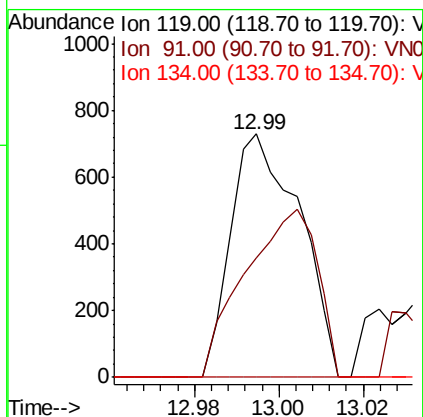
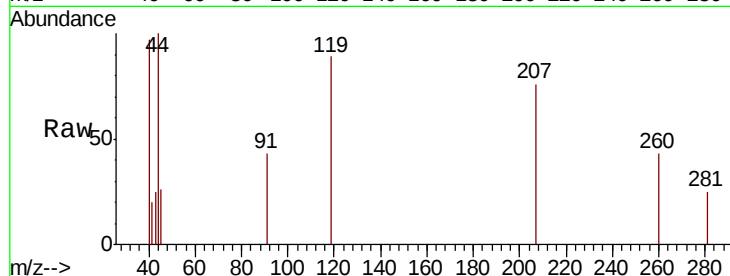




#83
tert-Butylbenzene
Concen: Below Cal
RT: 12.99 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VN057257.D
Acq: 13 Aug 2019 19:48

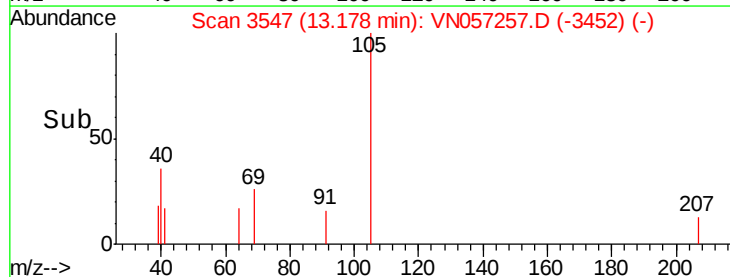
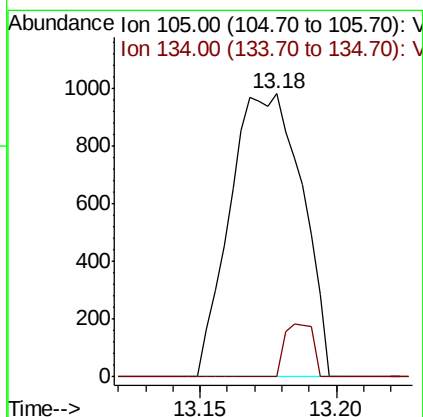
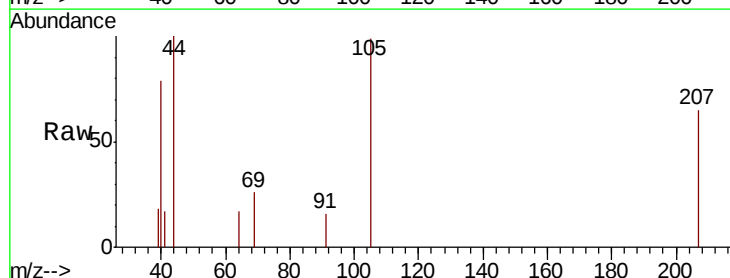
Instrument :
MSVOA_N
ClientSampled :
WP-4

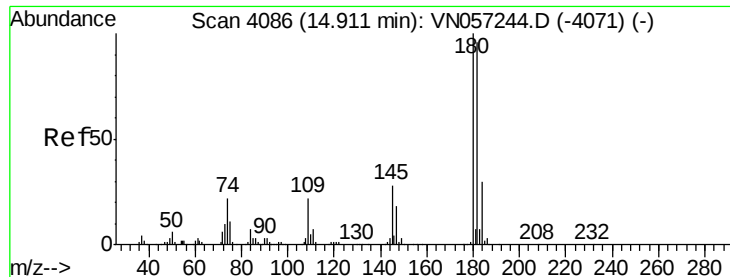
Tgt Ion:119 Resp: 831
Ion Ratio Lower Upper
119 100
91 72.6 30.8 92.3
134 0.0 12.9 38.7#



#85
sec-Butylbenzene
Concen: Below Cal
RT: 13.18 min Scan# 3547
Delta R.T. 0.01 min
Lab File: VN057257.D
Acq: 13 Aug 2019 19:48

Tgt Ion:105 Resp: 1800
Ion Ratio Lower Upper
105 100
134 7.5 10.4 31.2#

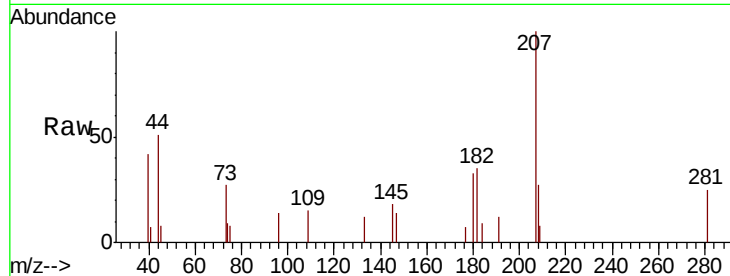




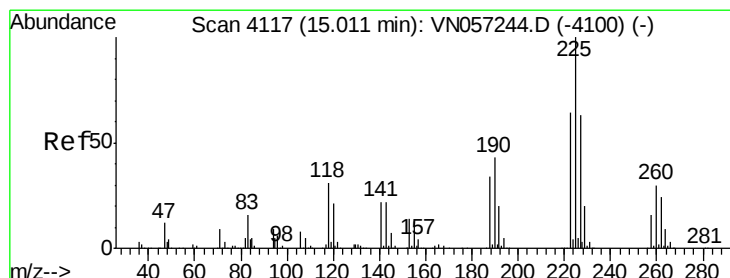
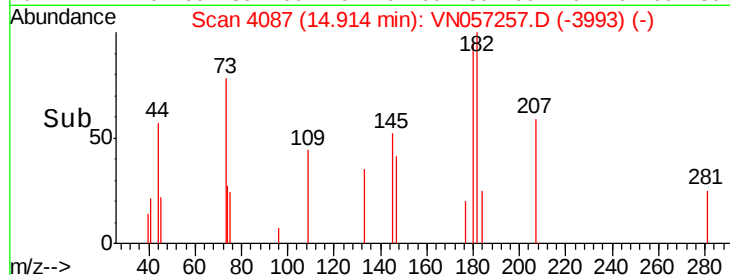
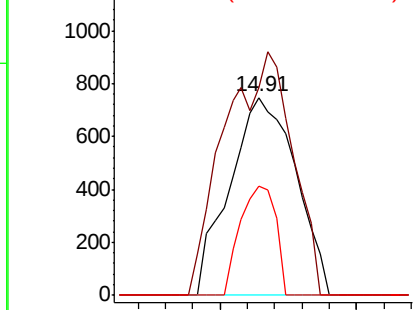
#93
 1,2,4-Trichlorobenzene
 Concen: 3.442 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.00 min
 Lab File: VN057257.D
 Acq: 13 Aug 2019 19:48

Instrument :
 MSVOA_N
 ClientSampled :
 WP-4

Tgt Ion:180 Resp: 1260
 Ion Ratio Lower Upper
 180 100
 182 126.7 47.7 143.1
 145 29.5 14.2 42.6

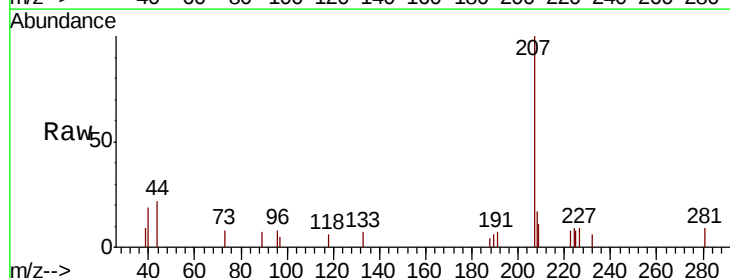


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

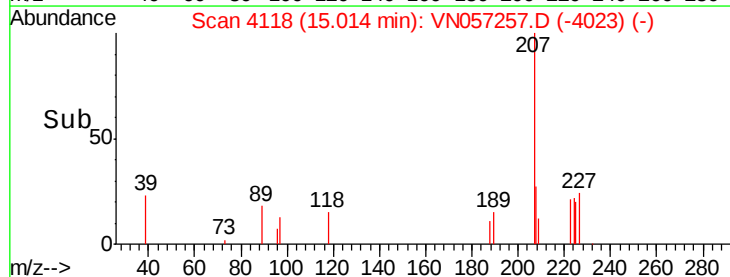
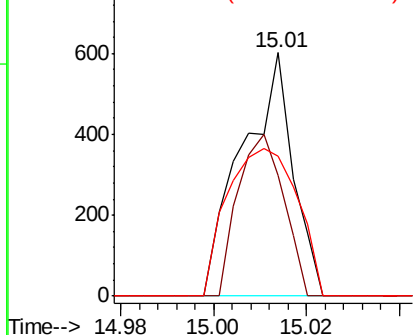


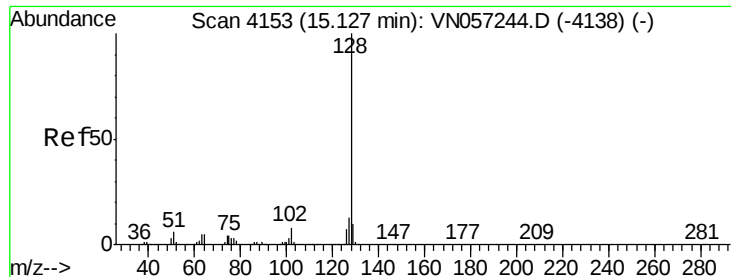
#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4118
 Delta R.T. 0.00 min
 Lab File: VN057257.D
 Acq: 13 Aug 2019 19:48

Tgt Ion:225 Resp: 460
 Ion Ratio Lower Upper
 225 100
 223 59.6 31.4 94.2
 227 83.7 31.4 94.3



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 0.238 ug/l

RT: 15.13 min Scan# 4153

Delta R.T. 0.00 min

Lab File: VN057257.D

Acq: 13 Aug 2019 19:48

Instrument :

MSVOA_N

ClientSampled :

WP-4

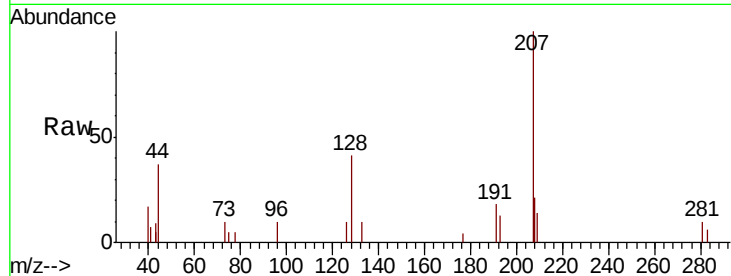
Tgt Ion:128 Resp: 2353

Ion Ratio Lower Upper

128 100

127 6.1 10.4 15.6#

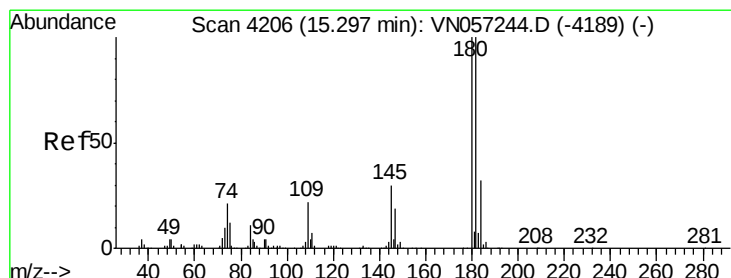
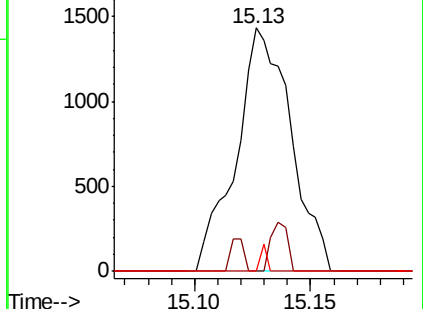
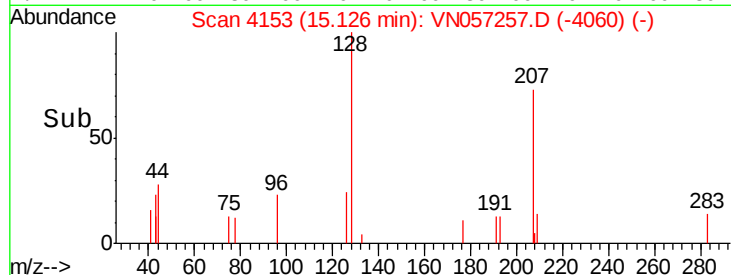
129 1.3 8.5 12.7#



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



#96

1,2,3-Trichlorobenzene

Concen: 4.569 ug/l

RT: 15.30 min Scan# 4206

Delta R.T. 0.00 min

Lab File: VN057257.D

Acq: 13 Aug 2019 19:48

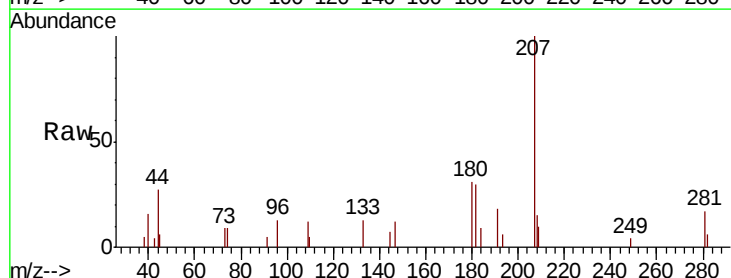
Tgt Ion:180 Resp: 1960

Ion Ratio Lower Upper

180 100

182 95.9 48.9 146.7

145 18.6 15.0 45.1



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

