

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091019\
 Data File : VN057830.D
 Acq On : 10 Sep 2019 3:12
 Operator : JC/SP
 Sample : VN0910WBL02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 10 07:14:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	290860	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	490962	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	445673	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	227787	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	316981	53.81	ug/l	0.00
Spiked Amount						
35) Dibromofluoromethane	7.58	113	218344	48.18	ug/l	0.00
Spiked Amount						
50) Toluene-d8	10.09	98	894667	50.85	ug/l	0.00
Spiked Amount						
62) 4-Bromofluorobenzene	12.40	95	283916	42.35	ug/l	0.00
Spiked Amount						

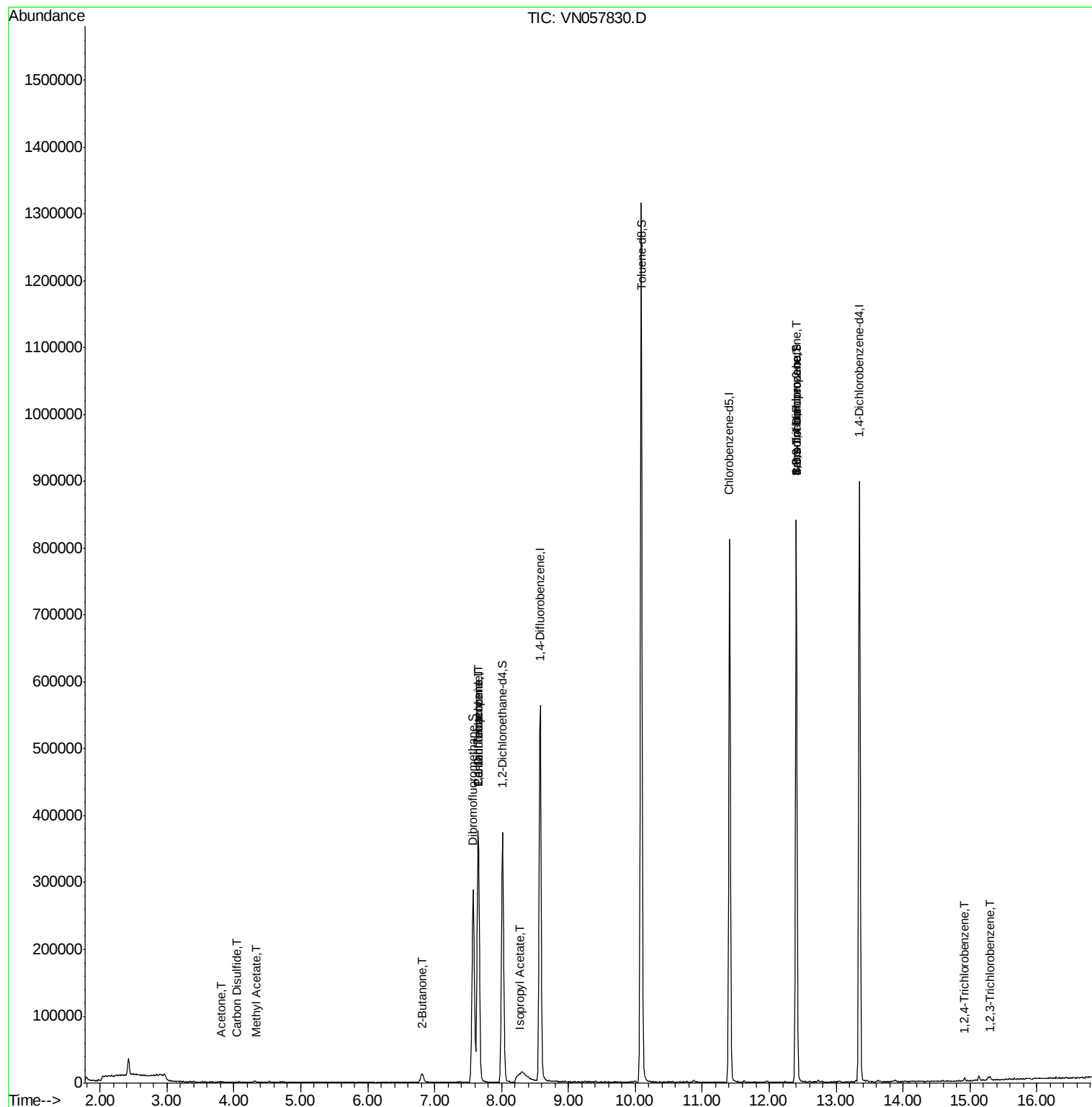
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.53	94	156	Below Cal		84
16) Acetone	3.81	43	853	0.442	ug/l #	47
17) Carbon Disulfide	4.04	76	851	0.335	ug/l #	75
18) Methyl Acetate	4.32	43	2114	0.411	ug/l #	71
20) Methylene Chloride	4.53	84	742	Below Cal	#	48
25) 2-Butanone	6.81	43	938	0.336	ug/l #	49
31) Cyclohexane	7.65	56	7813	Below Cal	#	36
36) 1,1-Dichloropropene	7.65	75	25261	4.437	ug/l #	51
38) Carbon Tetrachloride	7.65	117	30050	5.781	ug/l #	16
43) Isopropyl Acetate	8.27	43	15445	1.561	ug/l #	56
71) Bromoform	12.41	173	911	0.361	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	155391	30.156	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	155391	106.119	ug/l #	6
93) 1,2,4-Trichlorobenzene	14.91	180	1688	0.320	ug/l	86
95) Naphthalene	15.13	128	5920	Below Cal		96
96) 1,2,3-Trichlorobenzene	15.30	180	1725	1.365	ug/l	98

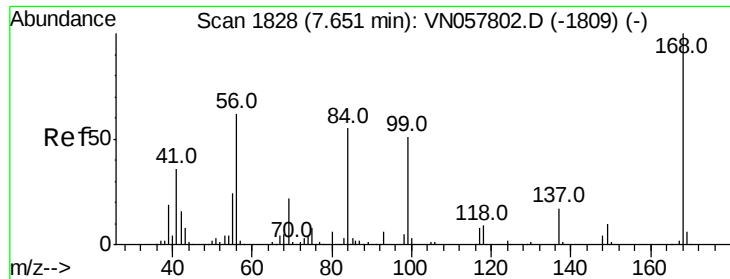
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN057830.D

Acq: 10 Sep 2019 3:12

Instrument :

MSVOA_N

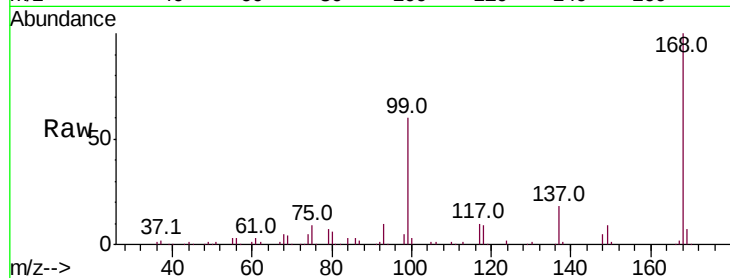
ClientSampled :

Tot Ion:168 Resp: 290860

Ion Ratio Lower Upper

168 100

99 59.6 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): VN057802.D (-1809) (-)

Ion 98.90 (98.60 to 99.60): VN057802.D (-1809) (-)

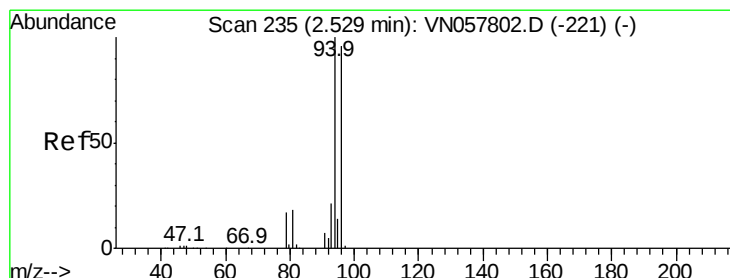
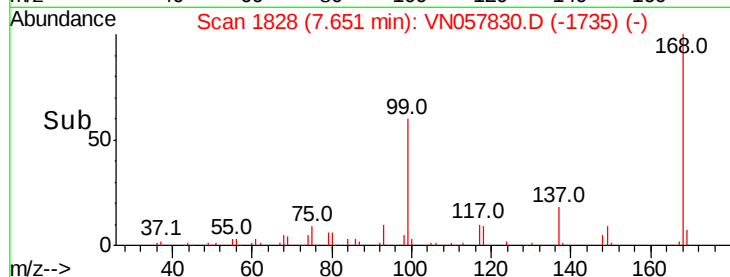
7.65

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.53 min Scan# 234

Delta R.T. -0.00 min

Lab File: VN057830.D

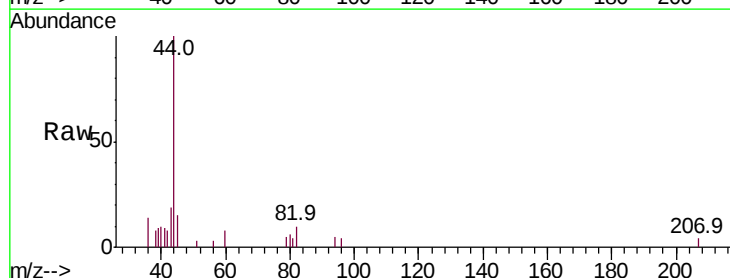
Acq: 10 Sep 2019 3:12

Tgt Ion: 94 Resp: 156

Ion Ratio Lower Upper

94 100

96 80.6 77.0 115.4



Abundance Ion 93.90 (93.60 to 94.60): VN057802.D (-221) (-)

Ion 95.90 (95.60 to 96.60): VN057802.D (-221) (-)

2.53

400

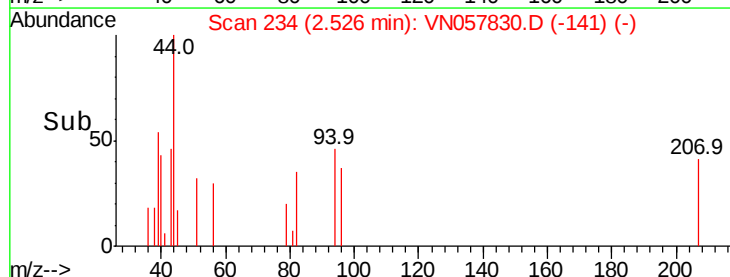
300

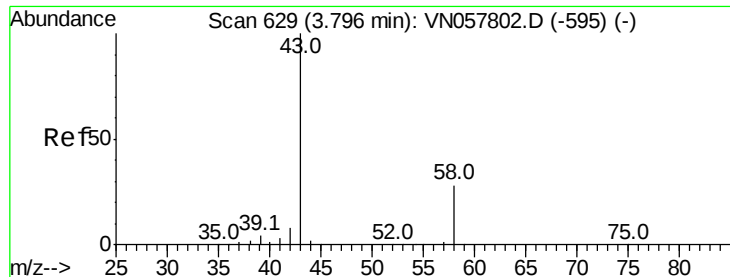
200

100

0

Time-->

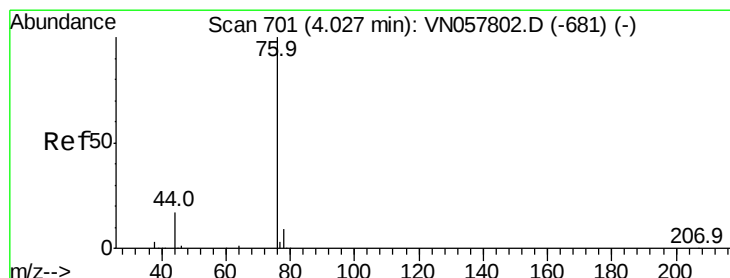
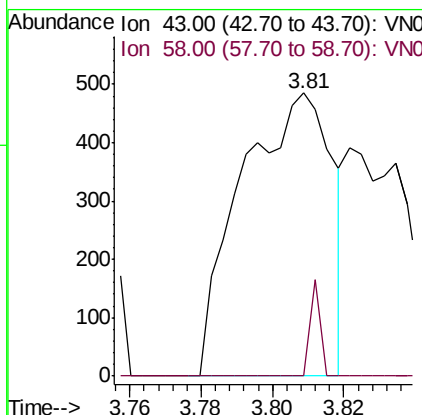
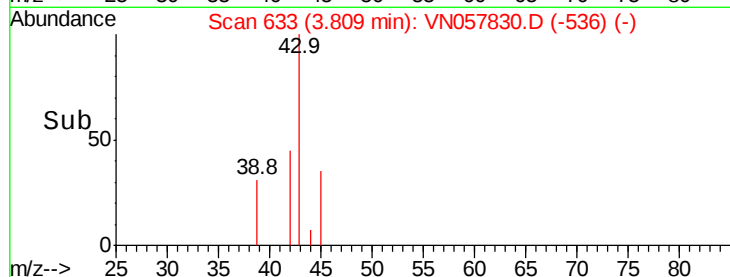
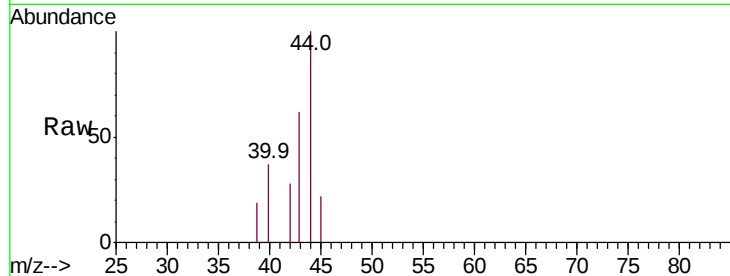




#16
Acetone
Concen: 0.442 ug/l
RT: 3.81 min Scan# 633
Delta R.T. 0.01 min
Lab File: VN057830.D
Acq: 10 Sep 2019 3:12

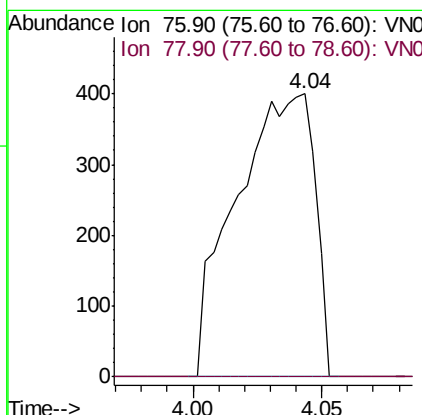
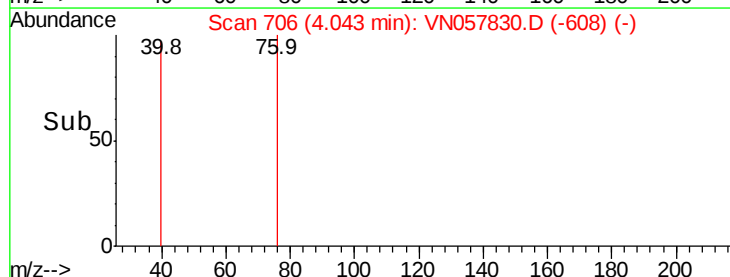
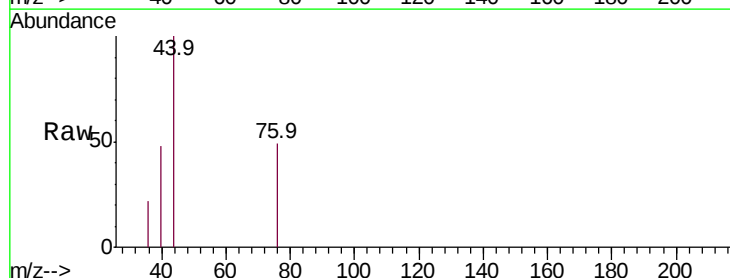
Instrument :
MSVOA_N
ClientSampled :

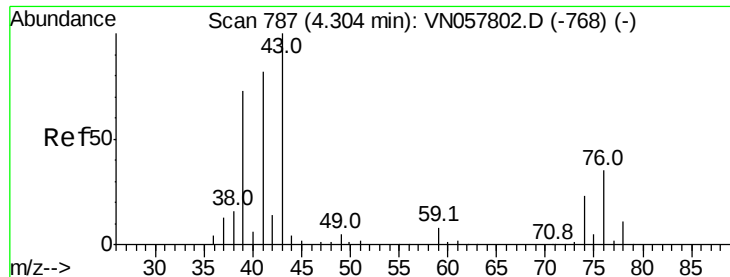
Tot Ion: 43 Resp: 853
Ion Ratio Lower Upper
43 100
58 0.0 22.2 33.2#



#17
Carbon Disulfide
Concen: 0.335 ug/l
RT: 4.04 min Scan# 706
Delta R.T. 0.02 min
Lab File: VN057830.D
Acq: 10 Sep 2019 3:12

Tgt Ion: 76 Resp: 851
Ion Ratio Lower Upper
76 100
78 0.0 7.1 10.7#

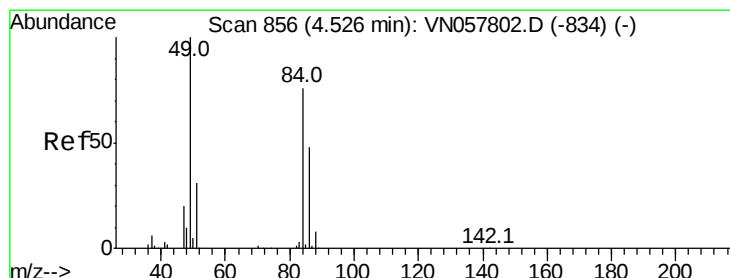
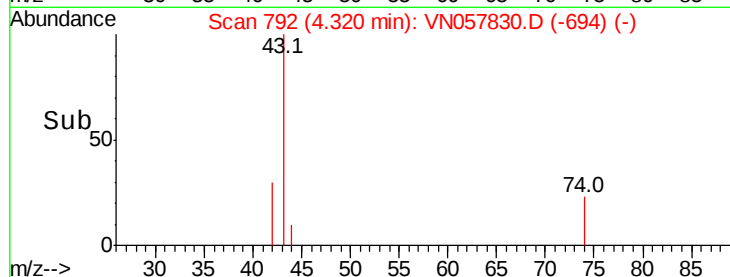
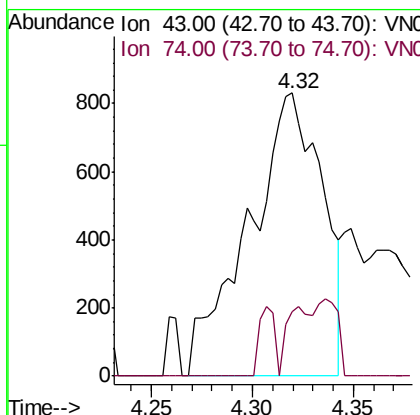
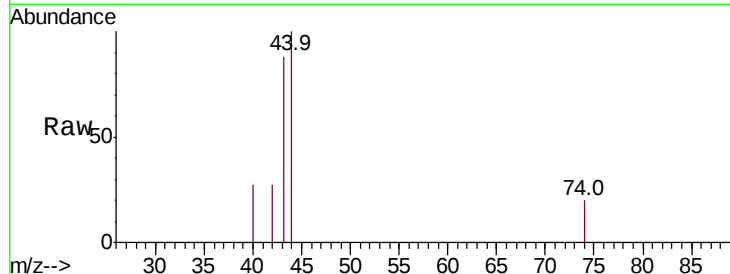




#18
Methyl Acetate
Concen: 0.411 ug/l
RT: 4.32 min Scan# 792
Delta R.T. 0.02 min
Lab File: VN057830.D
Acq: 10 Sep 2019 3:12

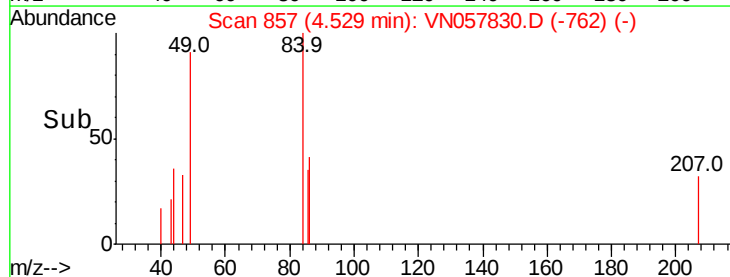
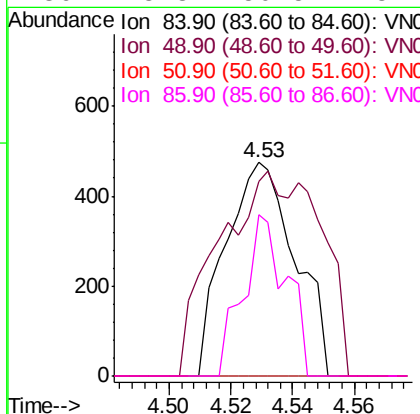
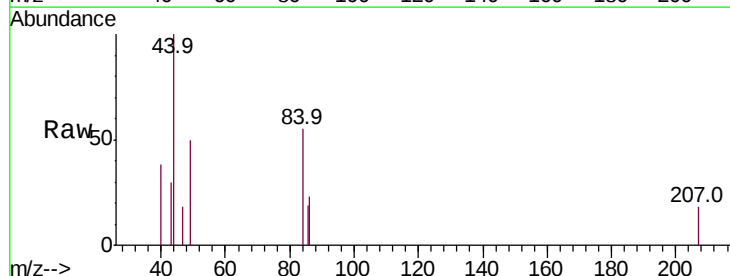
Instrument :
MSVOA_N
ClientSampled :

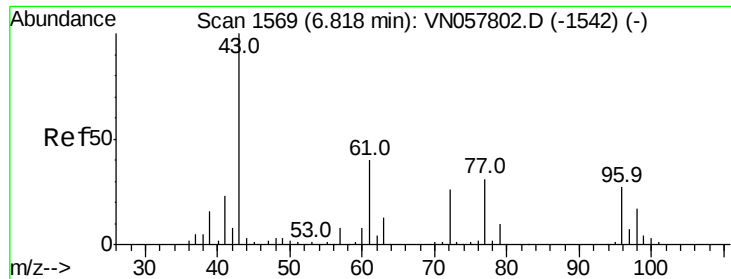
Tot Ion: 43 Resp: 2114
Ion Ratio Lower Upper
43 100
74 8.3 17.9 26.9#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.53 min Scan# 857
Delta R.T. 0.00 min
Lab File: VN057830.D
Acq: 10 Sep 2019 3:12

Tgt Ion: 84 Resp: 742
Ion Ratio Lower Upper
84 100
49 56.0 104.8 157.2#
51 0.0 33.0 49.4#
86 75.8 50.5 75.7#





#25

2-Butanone

Concen: 0.336 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. -0.01 min

Lab File: VN057830.D

Acq: 10 Sep 2019 3:12

Instrument :

MSVOA_N

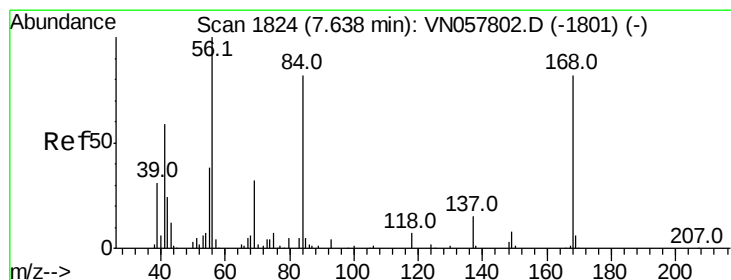
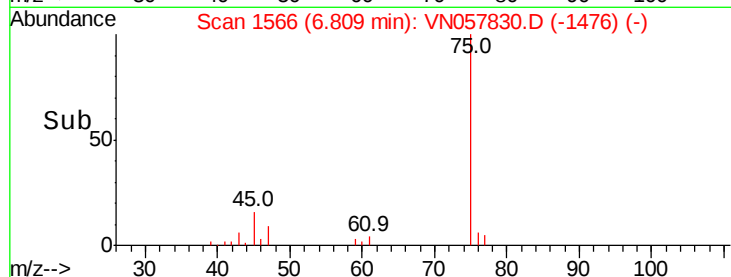
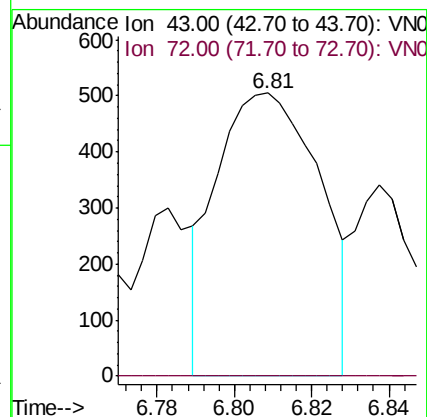
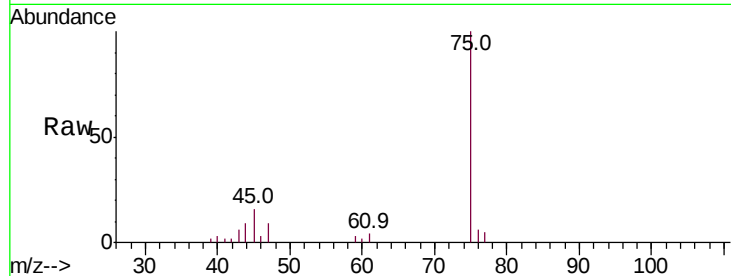
ClientSampled :

Tot Ion: 43 Resp: 938

Ion Ratio Lower Upper

43 100

72 0.0 20.6 30.8#



#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VN057830.D

Acq: 10 Sep 2019 3:12

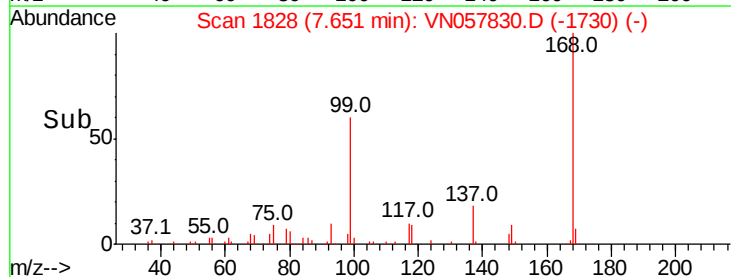
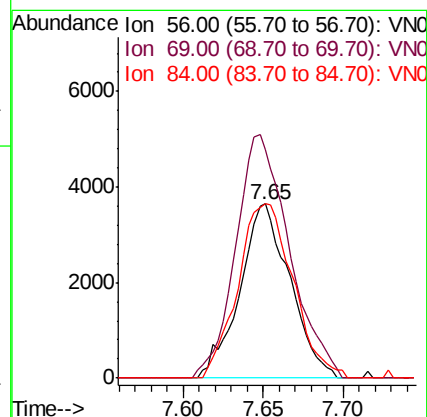
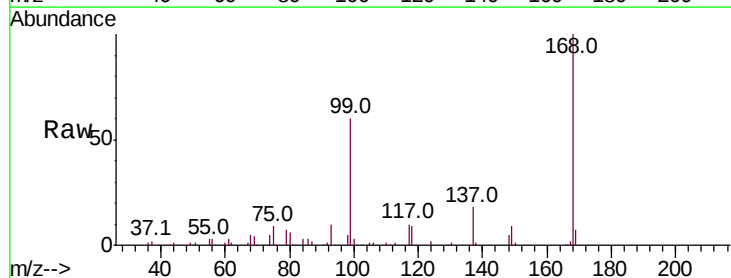
Tgt Ion: 56 Resp: 7813

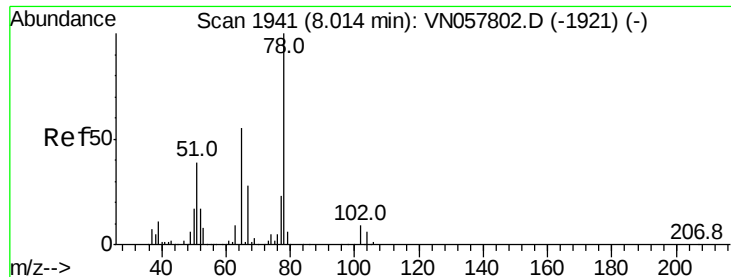
Ion Ratio Lower Upper

56 100

69 130.6 25.9 38.9#

84 99.8 65.6 98.4#





#33

1,2-Dichloroethane-d4

Concen: 53.806 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN057830.D

Acq: 10 Sep 2019 3:12

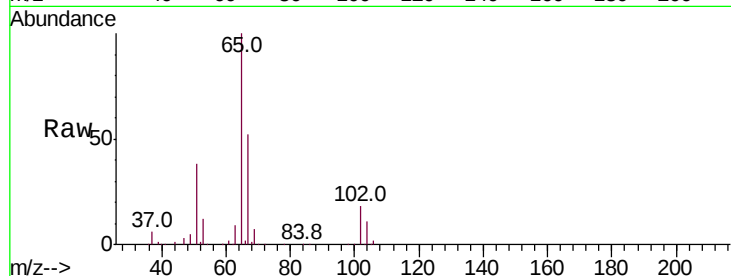
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 65 Resp: 316981

Ion Ratio Lower Upper

65 100

67 52.6 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VN057802.D (-1921) (-)

Ion 66.90 (66.60 to 67.60): VN057802.D (-1921) (-)

8.01

150000

100000

50000

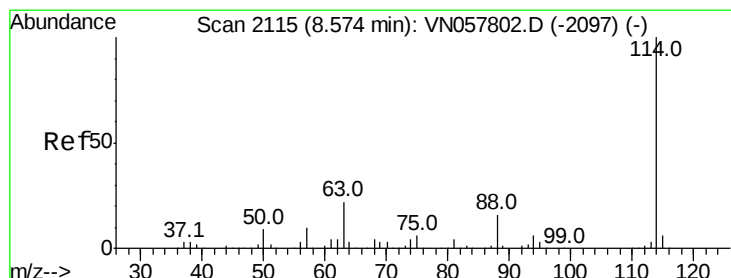
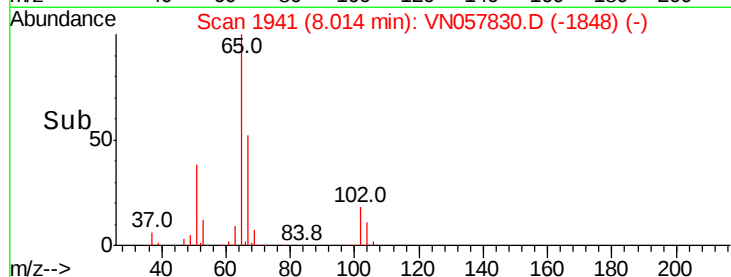
0

7.90

8.00

8.10

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.58 min Scan# 2116

Delta R.T. 0.00 min

Lab File: VN057830.D

Acq: 10 Sep 2019 3:12

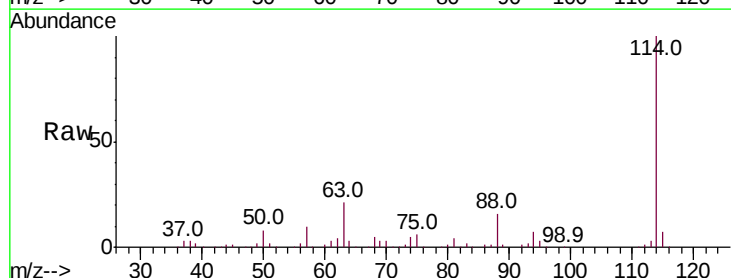
Tgt Ion: 114 Resp: 490962

Ion Ratio Lower Upper

114 100

63 21.5 0.0 44.0

88 16.0 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): VN057802.D (-2097) (-)

Ion 63.00 (62.70 to 63.70): VN057802.D (-2097) (-)

Ion 87.90 (87.60 to 88.60): VN057802.D (-2097) (-)

8.58

300000

250000

200000

150000

100000

50000

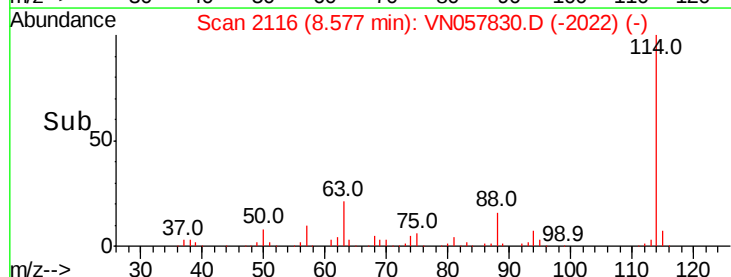
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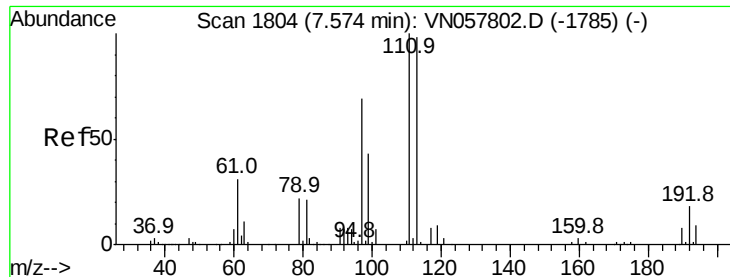
8.50

8.60

8.70

Time-->





#35

Dibromofluoromethane

Concen: 48.185 ug/l

RT: 7.58 min Scan# 1805

Delta R.T. 0.00 min

Lab File: VN057830.D

Acq: 10 Sep 2019 3:12

Instrument :
MSVOA_N
ClientSampleId :

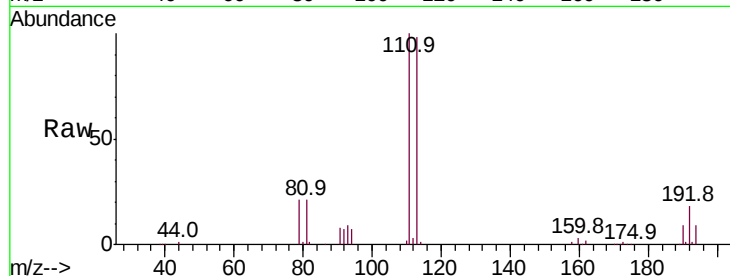
Tot Ion:113 Resp: 218344

Ion Ratio Lower Upper

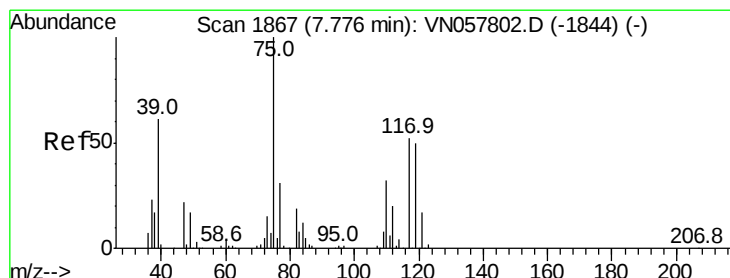
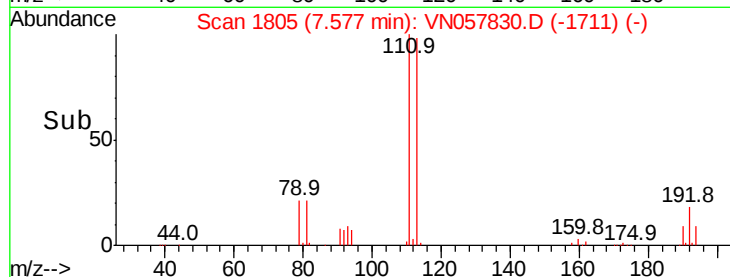
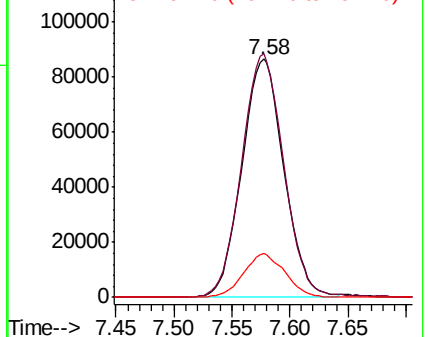
113 100

111 102.5 81.3 121.9

192 18.2 14.6 22.0



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: 4.437 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.13 min

Lab File: VN057830.D

Acq: 10 Sep 2019 3:12

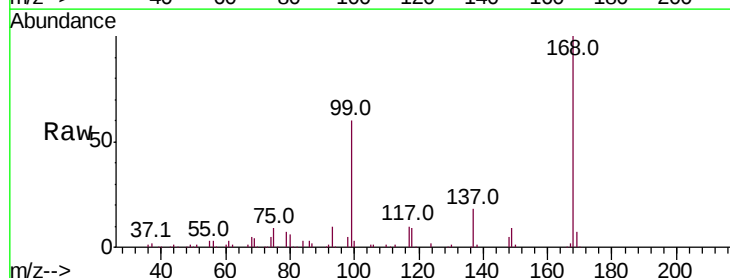
Tgt Ion: 75 Resp: 25261

Ion Ratio Lower Upper

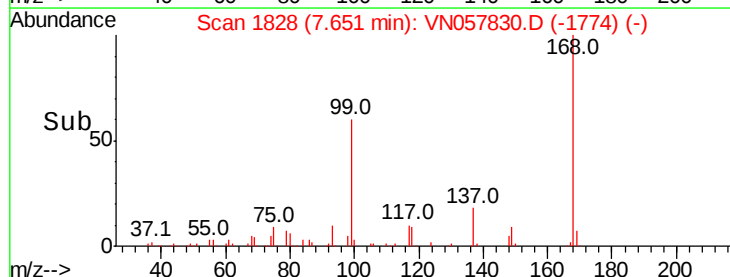
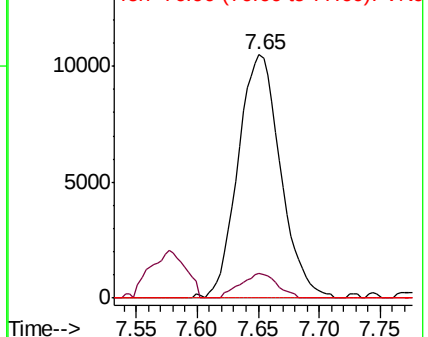
75 100

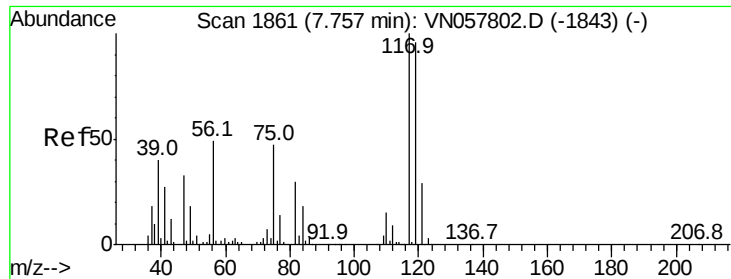
110 8.7 16.3 48.9#

77 0.0 25.0 37.4#



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

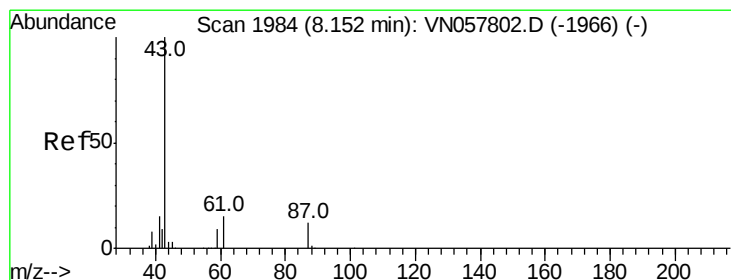
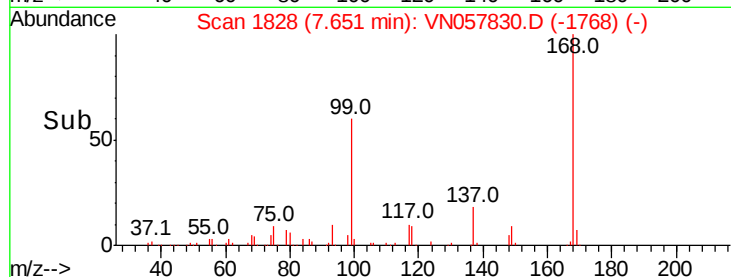
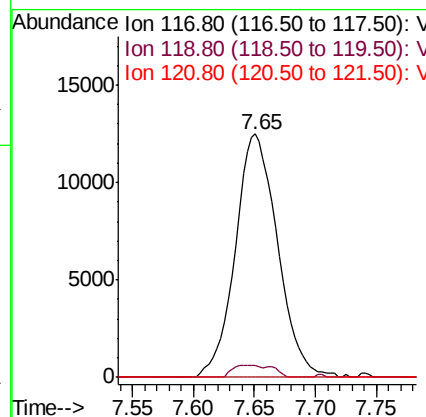
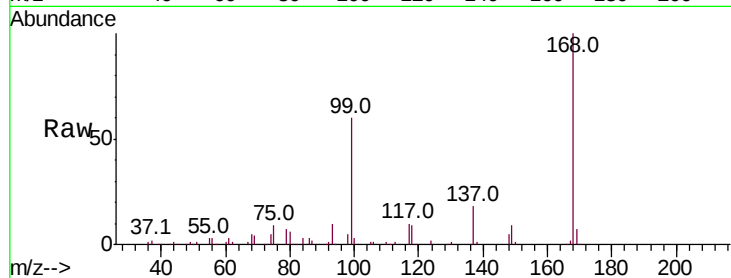




#38
Carbon Tetrachloride
Concen: 5.781 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. -0.11 min
Lab File: VN057830.D
Acq: 10 Sep 2019 3:12

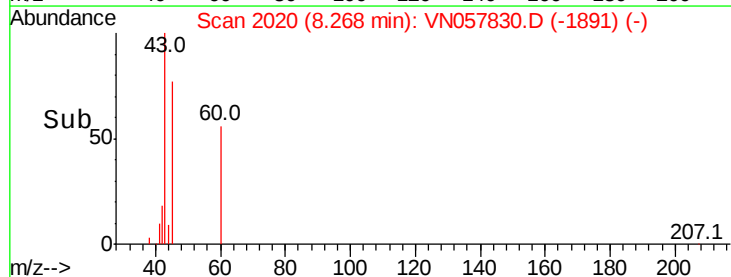
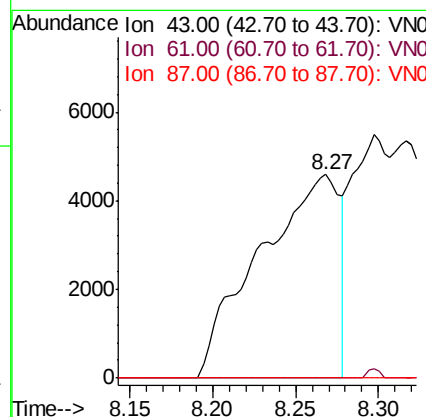
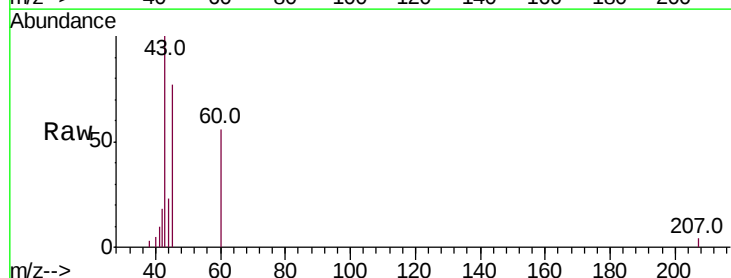
Instrument :
MSVOA_N
ClientSampled :

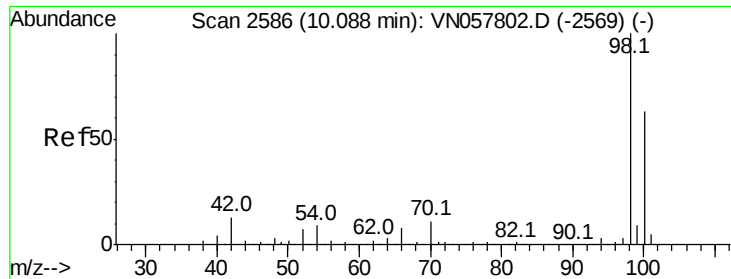
Tot Ion:117 Resp: 30050
Ion Ratio Lower Upper
117 100
119 4.7 76.9 115.3#
121 0.0 23.4 35.2#



#43
Isopropyl Acetate
Concen: 1.561 ug/l
RT: 8.27 min Scan# 2020
Delta R.T. 0.12 min
Lab File: VN057830.D
Acq: 10 Sep 2019 3:12

Tgt Ion: 43 Resp: 15445
Ion Ratio Lower Upper
43 100
61 0.0 20.1 30.1#
87 0.0 9.5 14.3#





#50

Toluene-d8

Concen: 50.853 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN057830.D

Acq: 10 Sep 2019 3:12

Instrument :

MSVOA_N

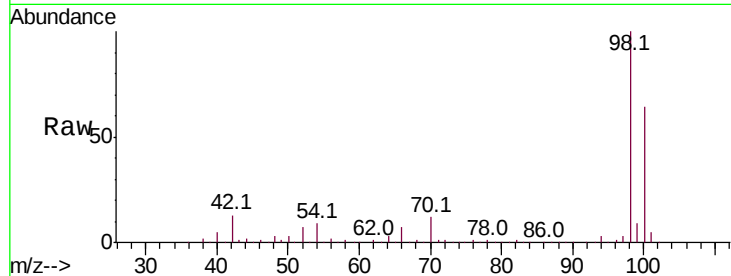
ClientSampleId :

Tot Ion: 98 Resp: 894667

Ion Ratio Lower Upper

98 100

100 63.1 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VN057802.D (-2569) (-)

Ion 100.00 (99.70 to 100.70): VN057802.D (-2569) (-)

10.09

500000

400000

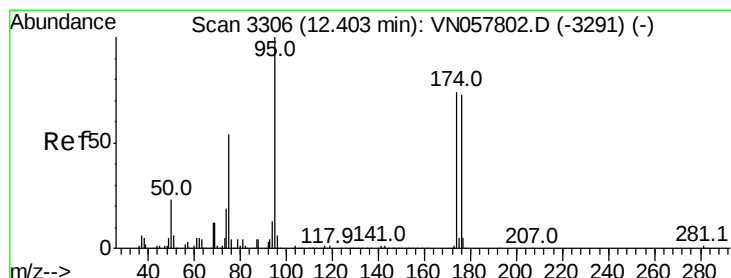
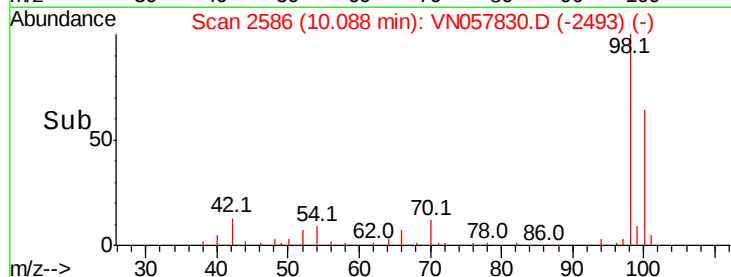
300000

200000

100000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 42.347 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN057830.D

Acq: 10 Sep 2019 3:12

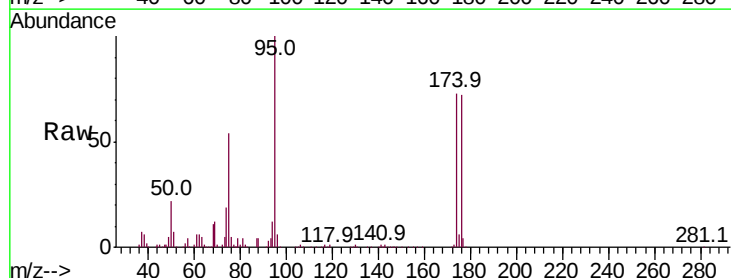
Tgt Ion: 95 Resp: 283916

Ion Ratio Lower Upper

95 100

174 74.2 0.0 150.2

176 72.5 0.0 146.0



Abundance Ion 94.90 (94.60 to 95.60): VN057802.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN057802.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN057802.D (-3291) (-)

12.40

200000

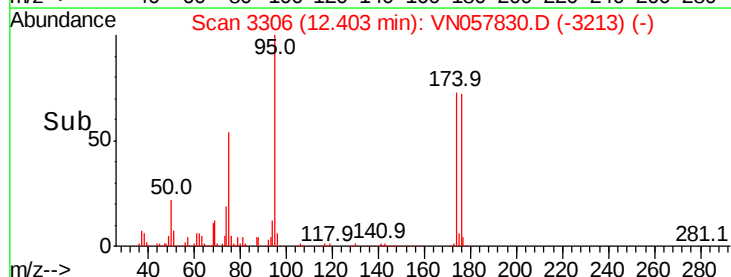
150000

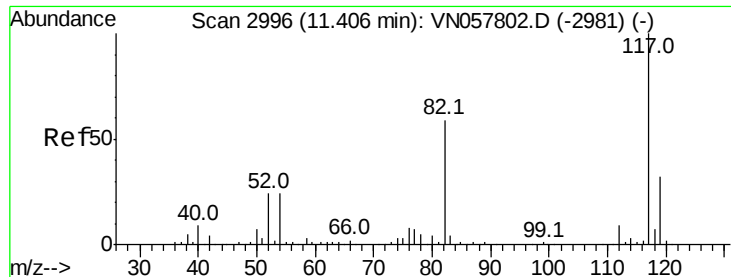
100000

50000

0

Time-->

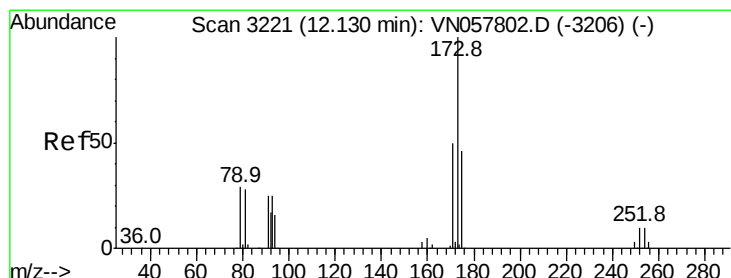
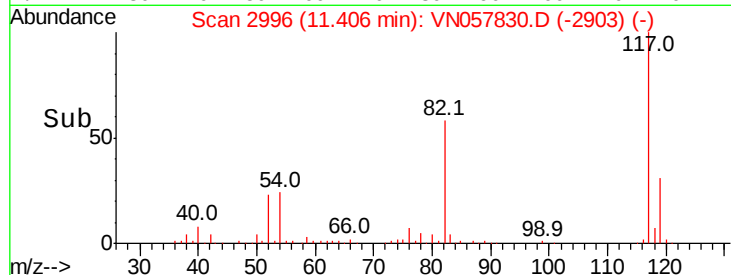
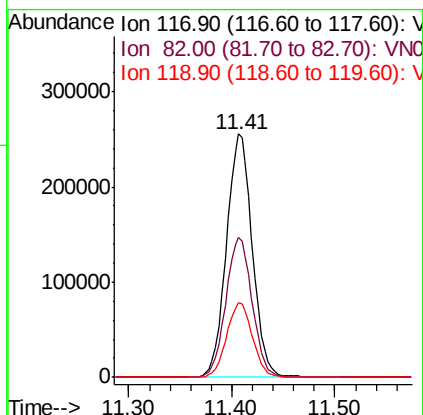
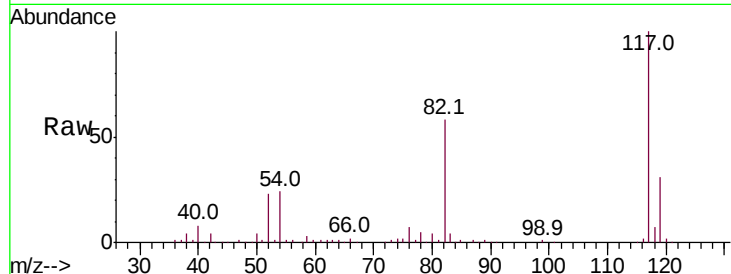




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN057830.D
Acq: 10 Sep 2019 3:12

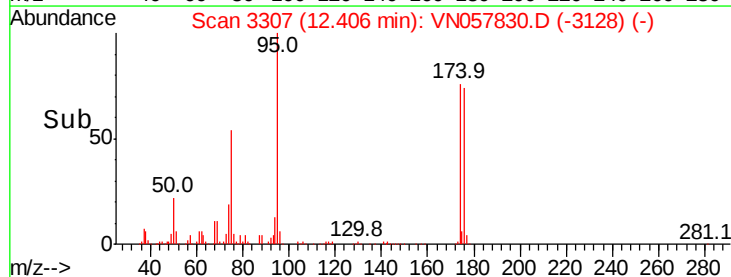
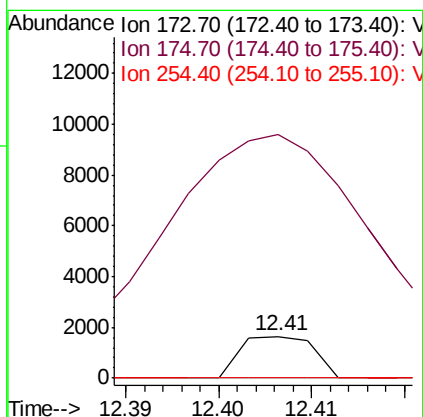
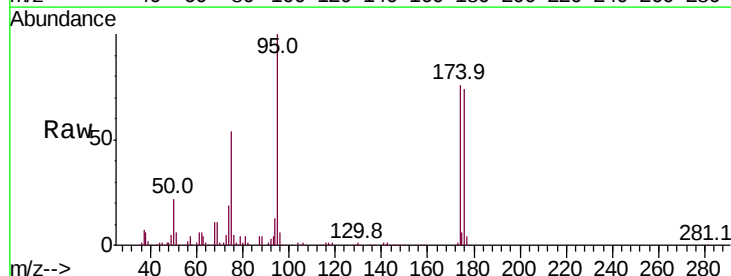
Instrument :
MSVOA_N
ClientSampleId :

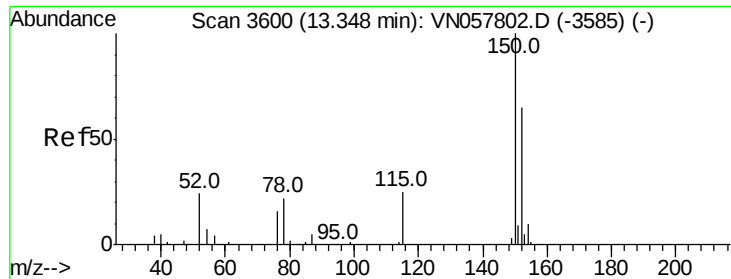
Tot Ion:117 Resp: 445673
Ion Ratio Lower Upper
117 100
82 57.6 47.2 70.8
119 30.8 25.3 37.9



#71
Bromoform
Concen: 0.361 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.28 min
Lab File: VN057830.D
Acq: 10 Sep 2019 3:12

Tgt Ion:173 Resp: 911
Ion Ratio Lower Upper
173 100
175 1522.7 23.5 70.6#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN057830.D

Acq: 10 Sep 2019 3:12

Instrument :

MSVOA_N

ClientSampled :

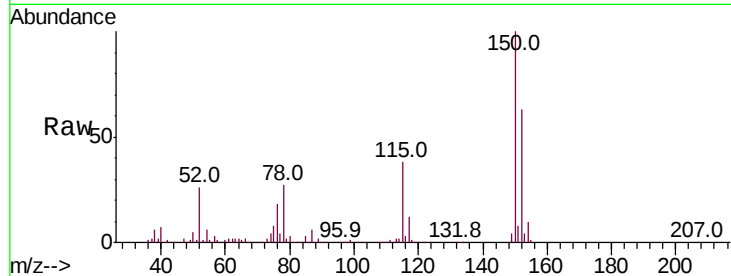
Tot Ion:152 Resp: 227787

Ion Ratio Lower Upper

152 100

115 60.3 30.3 91.0

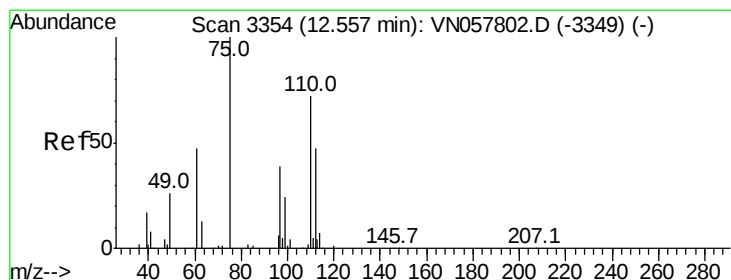
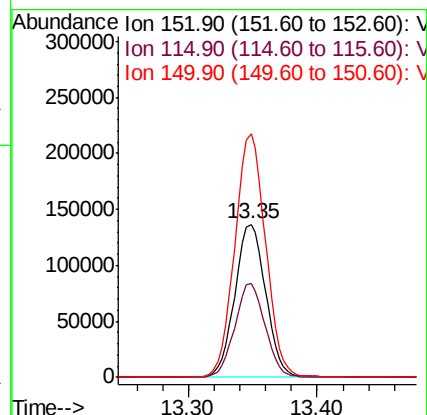
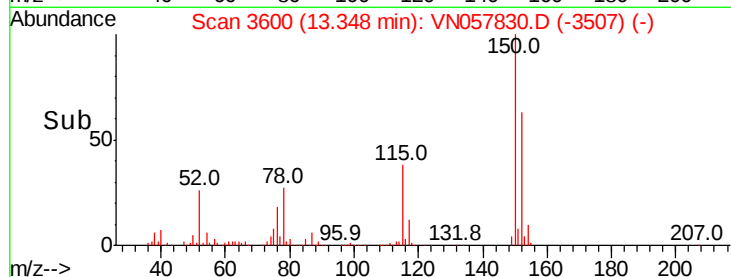
150 158.5 0.0 352.4



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



#76

1,2,3-Trichloropropane

Concen: 30.156 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057830.D

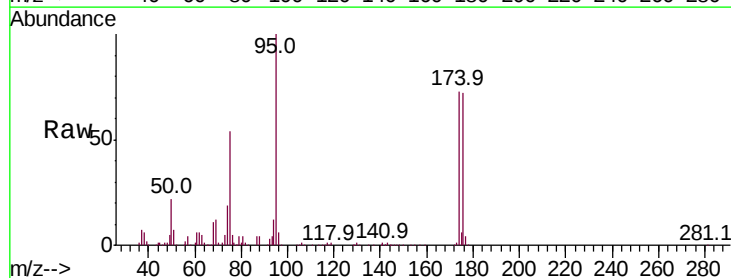
Acq: 10 Sep 2019 3:12

Tgt Ion: 75 Resp: 155391

Ion Ratio Lower Upper

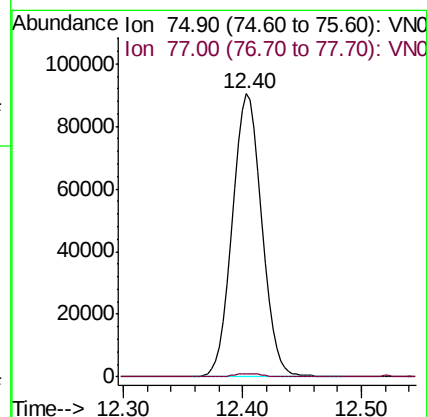
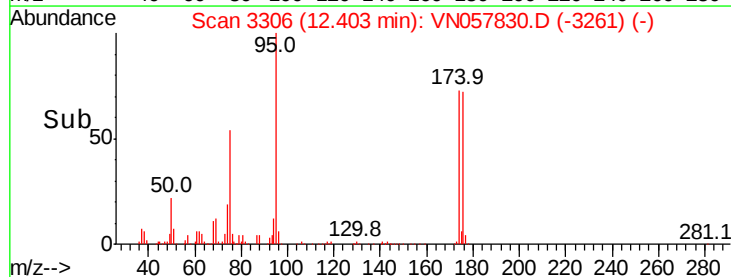
75 100

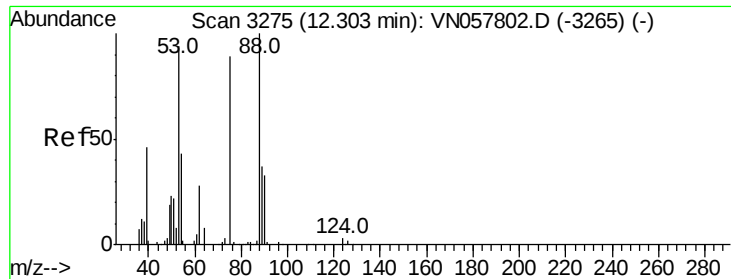
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

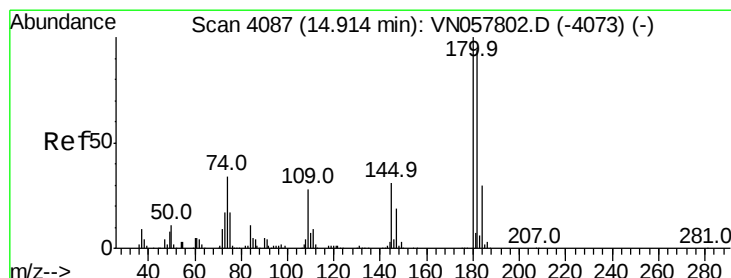
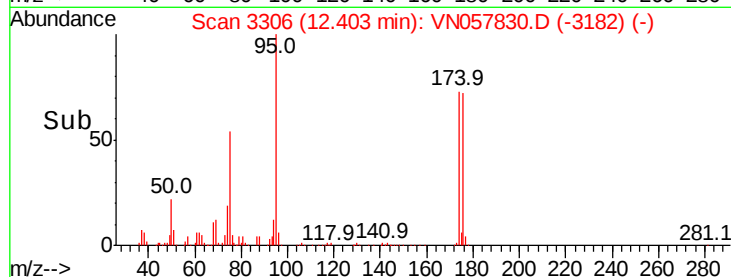
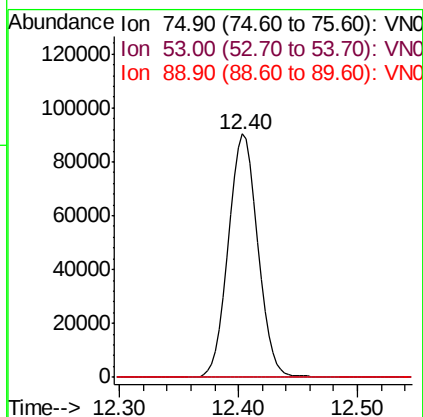
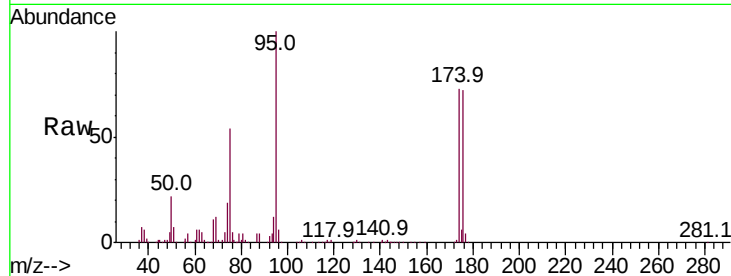




#81
trans-1,4-Dichloro-2-butene
Concen: 106.119 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.10 min
Lab File: VN057830.D
Acq: 10 Sep 2019 3:12

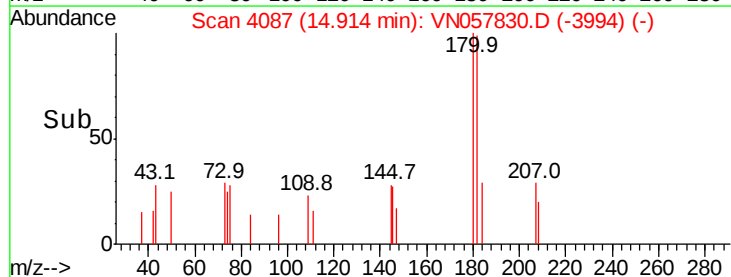
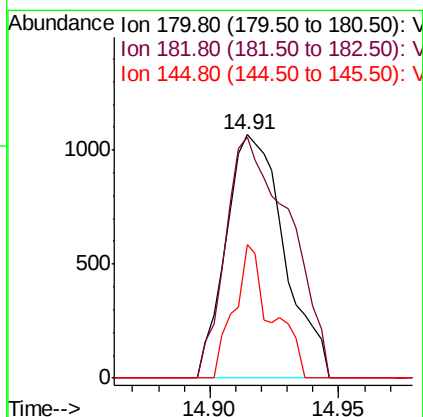
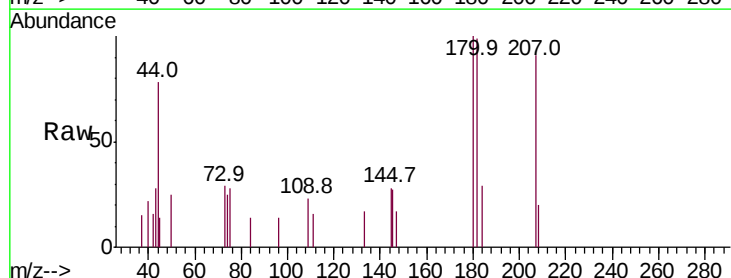
Instrument :
MSVOA_N
ClientSampled :

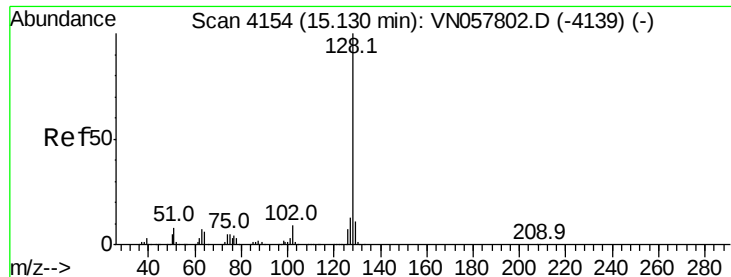
Tot Ion: 75 Resp: 155391
Ion Ratio Lower Upper
75 100
53 0.0 88.4 132.6#
89 0.0 35.3 52.9#



#93
1,2,4-Trichlorobenzene
Concen: 0.320 ug/l
RT: 14.91 min Scan# 4087
Delta R.T. 0.00 min
Lab File: VN057830.D
Acq: 10 Sep 2019 3:12

Tgt Ion: 180 Resp: 1688
Ion Ratio Lower Upper
180 100
182 108.8 46.9 140.8
145 35.4 14.9 44.7





#95

Naphthalene

Concen: Below Cal

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN057830.D

Acq: 10 Sep 2019 3:12

Instrument :

MSVOA_N

ClientSampleId :

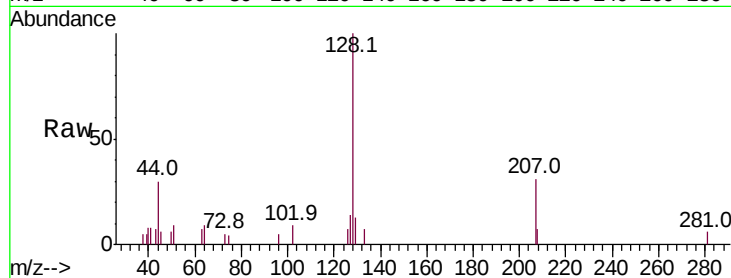
Tot Ion:128 Resp: 5920

Ion Ratio Lower Upper

128 100

127 11.2 10.3 15.5

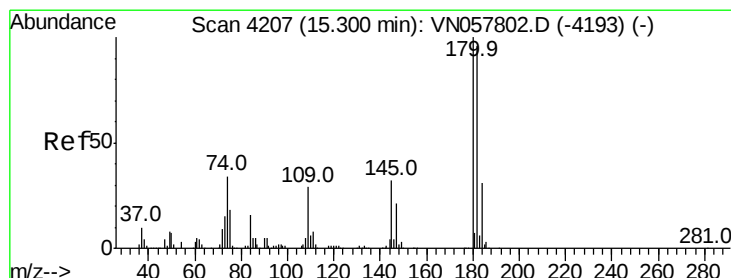
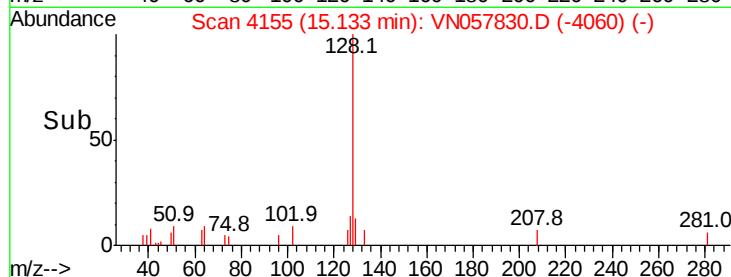
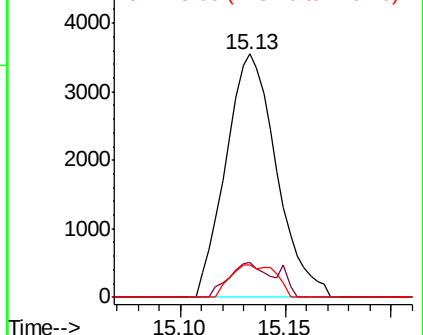
129 11.9 8.6 12.8



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: 1.365 ug/l

RT: 15.30 min Scan# 4207

Delta R.T. 0.00 min

Lab File: VN057830.D

Acq: 10 Sep 2019 3:12

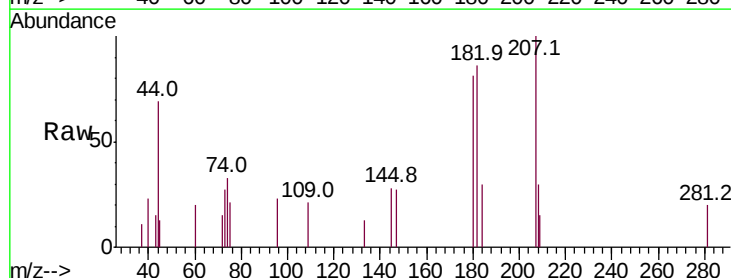
Tgt Ion:180 Resp: 1725

Ion Ratio Lower Upper

180 100

182 95.4 48.3 144.8

145 30.4 16.3 48.8



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

