

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091119\
 Data File : VN057897.D
 Acq On : 11 Sep 2019 4:48
 Operator : JC/SP
 Sample : K4820-05
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 EB-01-091019

Quant Time: Sep 11 05:20:16 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

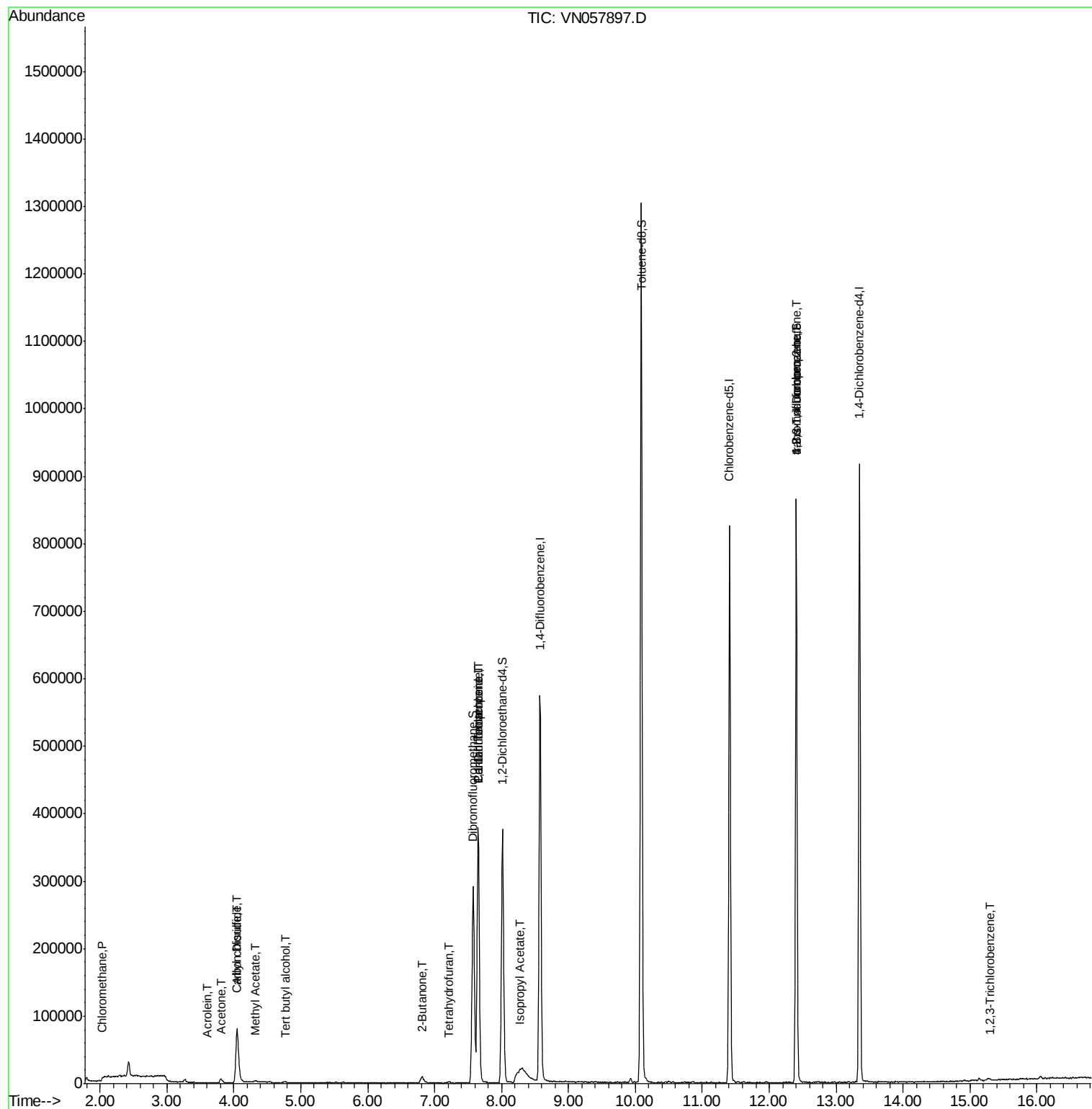
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	291141	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	502419	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	449496	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	227414	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	321465	54.51	ug/l	0.00
Spiked Amount 50.000			Recovery	=	109.02%	
35) Dibromofluoromethane	7.57	113	218471	47.11	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.22%	
50) Toluene-d8	10.09	98	899229	49.95	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.90%	
62) 4-Bromofluorobenzene	12.40	95	289588	42.21	ug/l	0.00
Spiked Amount 50.000			Recovery	=	84.42%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.04	50	1058	0.258 ug/l	#	76
5) Bromomethane	2.55	94	574	Below Cal	#	30
11) Tert butyl alcohol	4.77	59	555	0.778 ug/l	#	72
13) Acrolein	3.60	56	218	0.360 ug/l	#	14
14) Allyl chloride	4.05	41	11558	1.905 ug/l	#	65
16) Acetone	3.81	43	11532	5.966 ug/l		96
17) Carbon Disulfide	4.03	76	426	0.247 ug/l	#	75
18) Methyl Acetate	4.31	43	3927	0.762 ug/l	#	69
20) Methylene Chloride	4.53	84	1005	Below Cal	#	61
25) 2-Butanone	6.80	43	581	0.208 ug/l	#	49
29) Tetrahydrofuran	7.20	42	693	0.402 ug/l	#	50
31) Cyclohexane	7.65	56	7313	Below Cal	#	19
36) 1,1-Dichloropropene	7.65	75	24027	4.124 ug/l	#	50
38) Carbon Tetrachloride	7.65	117	28935	5.439 ug/l	#	16
43) Isopropyl Acetate	8.27	43	27946	2.760 ug/l	#	56
76) 1,2,3-Trichloropropane	12.40	75	158578	30.825 ug/l	#	100
81) trans-1,4-Dichloro-2-buten	12.40	75	158578	108.473 ug/l	#	6
95) Naphthalene	15.13	128	3105	Below Cal	#	86
96) 1,2,3-Trichlorobenzene	15.30	180	367	1.076 ug/l		82

(#) = 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: VN057897.D

Acq: 11 Sep 2019 4:48

Instrument :

MSVOA_N

ClientSampled :

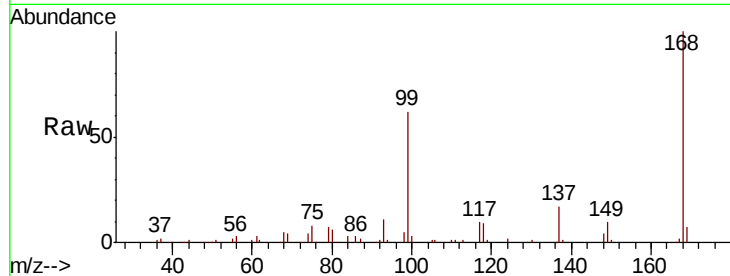
EB-01-091019

Tgt Ion:168 Resp: 291141

Ion Ratio Lower Upper

168 100

99 62.1 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) (-)

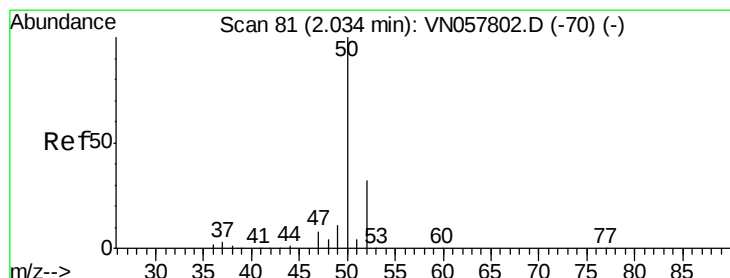
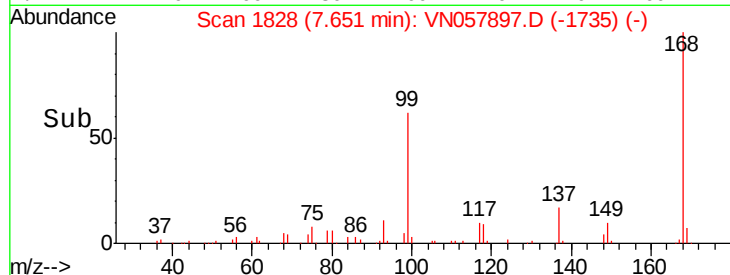
7.65

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.258 ug/l

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN057897.D

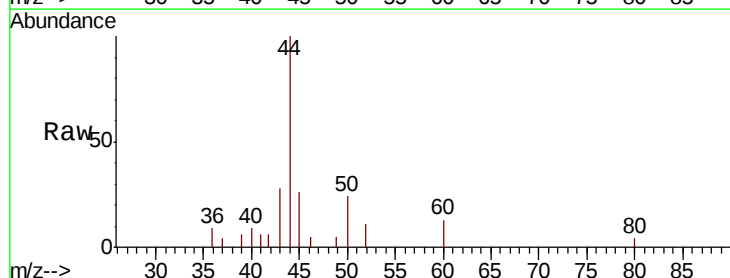
Acq: 11 Sep 2019 4:48

Tgt Ion: 50 Resp: 1058

Ion Ratio Lower Upper

50 100

52 45.0 25.5 38.3#



Abundance Ion 49.90 (49.60 to 50.60): VN057802.D (-70) (-)

Ion 51.90 (51.60 to 52.60): VN057802.D (-70) (-)

2.04

1000

800

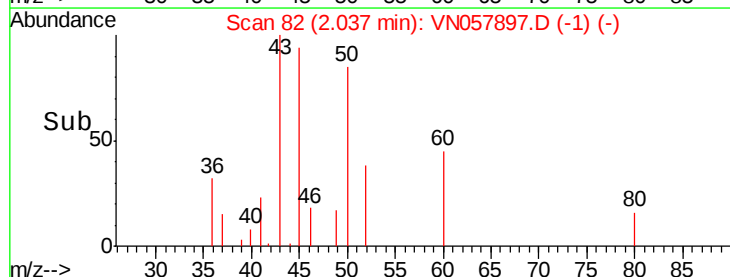
600

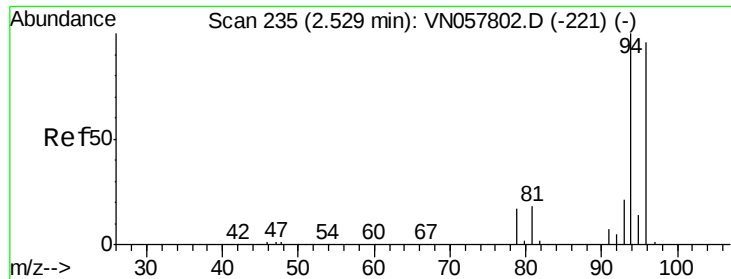
400

200

0

Time-->

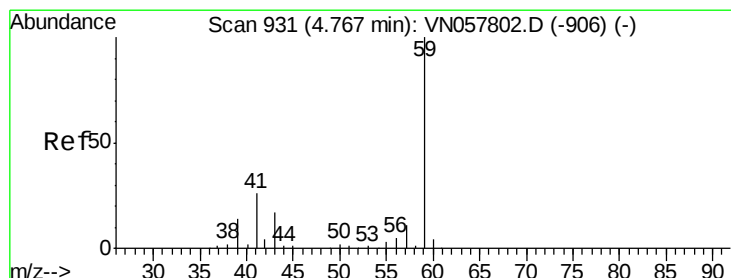
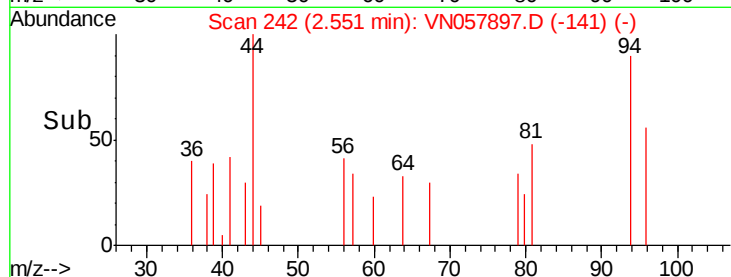
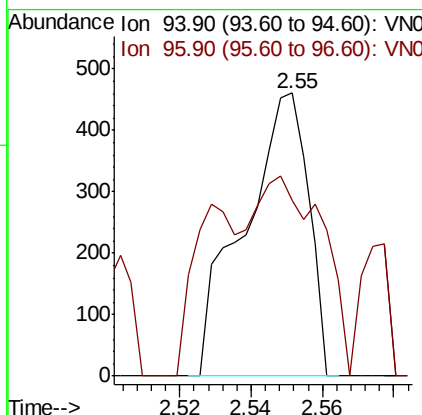
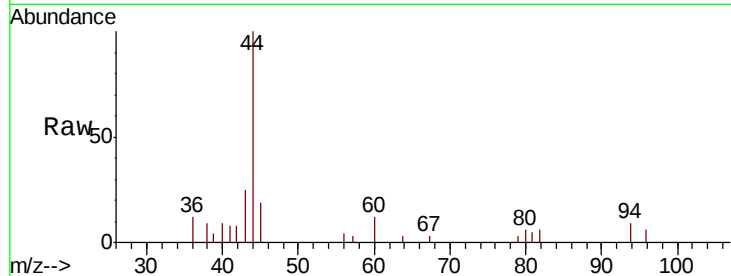




#5
Bromomethane
Concen: Below Cal
RT: 2.55 min Scan# 242
Delta R.T. 0.02 min
Lab File: VN057897.D
Acq: 11 Sep 2019 4:48

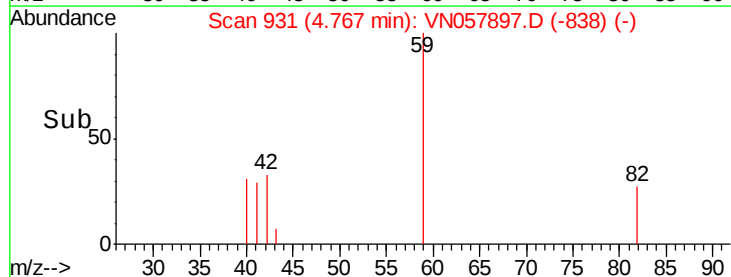
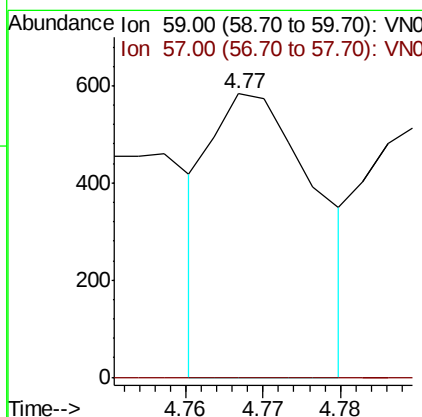
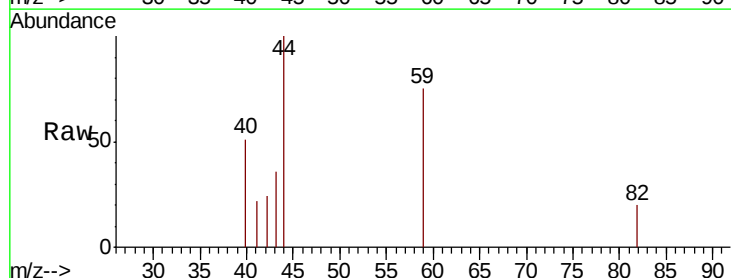
Instrument :
MSVOA_N
ClientSampled :
EB-01-091019

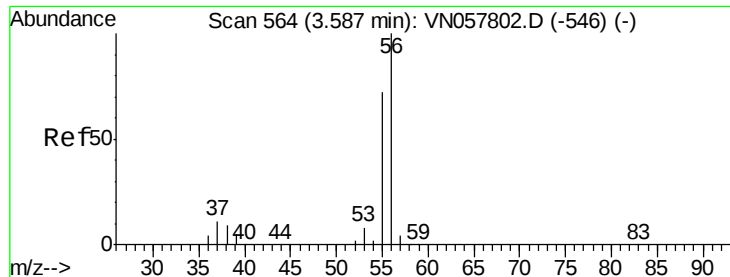
Tgt Ion: 94 Resp: 574
Ion Ratio Lower Upper
94 100
96 27.8 77.0 115.4#



#11
Tert butyl alcohol
Concen: 0.778 ug/l
RT: 4.77 min Scan# 931
Delta R.T. 0.00 min
Lab File: VN057897.D
Acq: 11 Sep 2019 4:48

Tgt Ion: 59 Resp: 555
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#





#13

Acrolein

Concen: 0.360 ug/l

RT: 3.60 min Scan# 568

Delta R.T. 0.01 min

Lab File: VN057897.D

Acq: 11 Sep 2019 4:48

Instrument :

MSVOA_N

ClientSampleId :

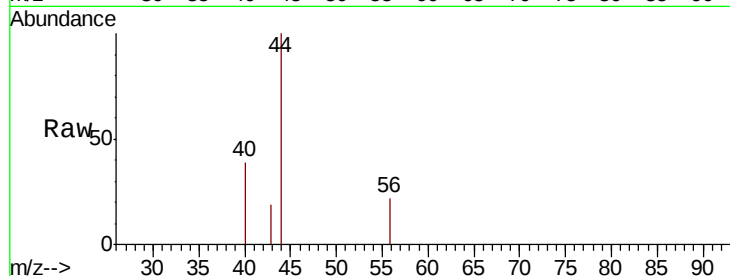
EB-01-091019

Tgt Ion: 56 Resp: 218

Ion Ratio Lower Upper

56 100

55 0.0 57.3 85.9#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.60

250

200

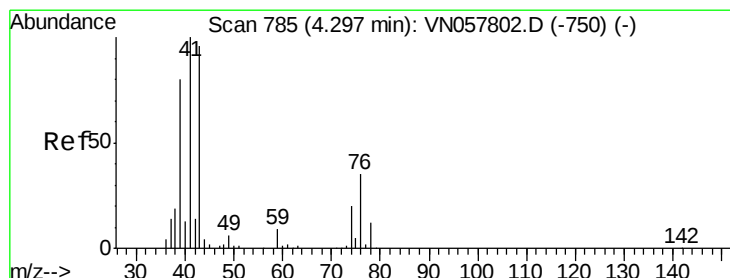
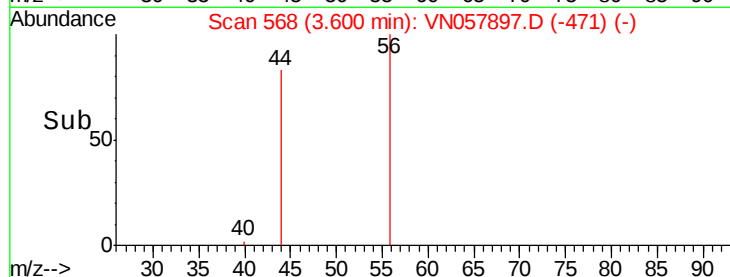
150

100

50

0

Time-->



#14

Allyl chloride

Concen: 1.905 ug/l

RT: 4.05 min Scan# 707

Delta R.T. -0.25 min

Lab File: VN057897.D

Acq: 11 Sep 2019 4:48

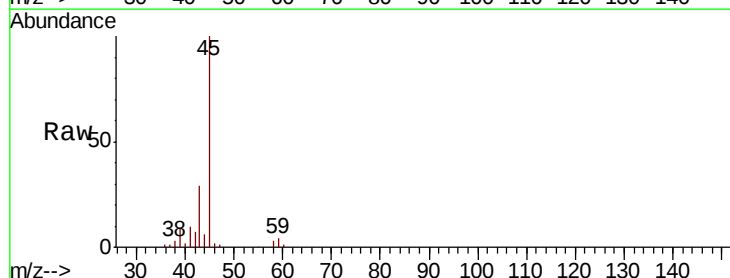
Tgt Ion: 41 Resp: 11558

Ion Ratio Lower Upper

41 100

39 96.0 59.4 89.2#

76 0.6 26.0 39.0#



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0

6000

5000

4000

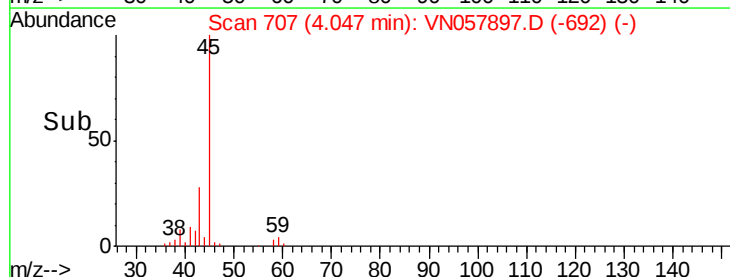
3000

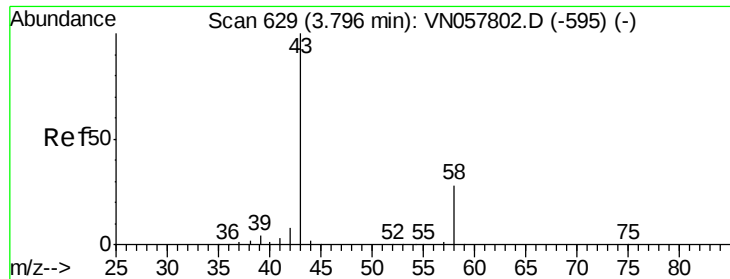
2000

1000

0

Time-->





#16

Acetone

Concen: 5.966 ug/l

RT: 3.81 min Scan# 633

Delta R.T. 0.01 min

Lab File: VN057897.D

Acq: 11 Sep 2019 4:48

Instrument :

MSVOA_N

ClientSampleId :

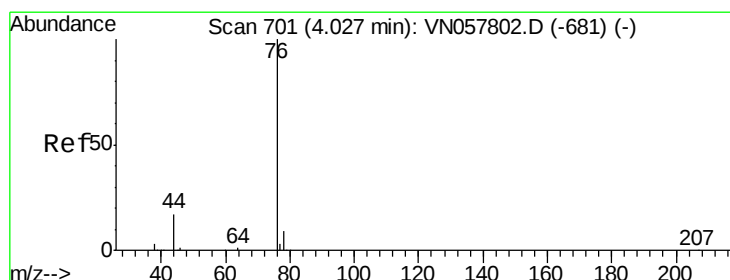
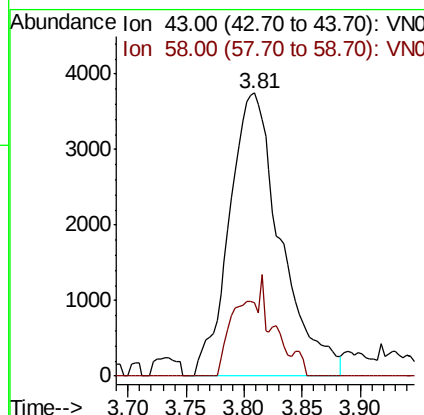
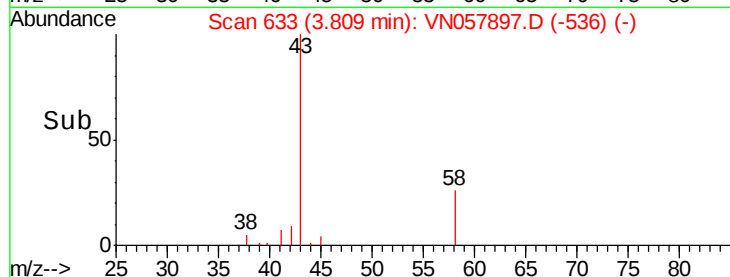
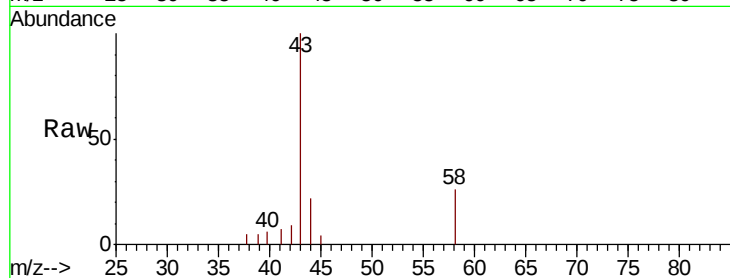
EB-01-091019

Tgt Ion: 43 Resp: 11532

Ion Ratio Lower Upper

43 100

58 25.8 22.2 33.2



#17

Carbon Disulfide

Concen: 0.247 ug/l

RT: 4.03 min Scan# 701

Delta R.T. 0.00 min

Lab File: VN057897.D

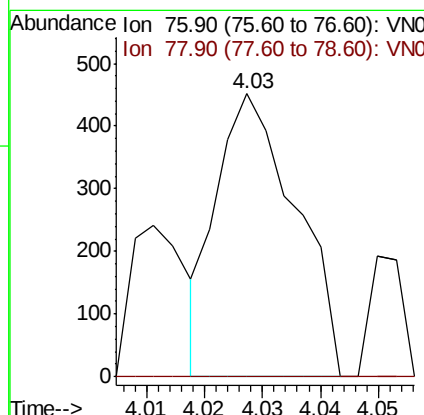
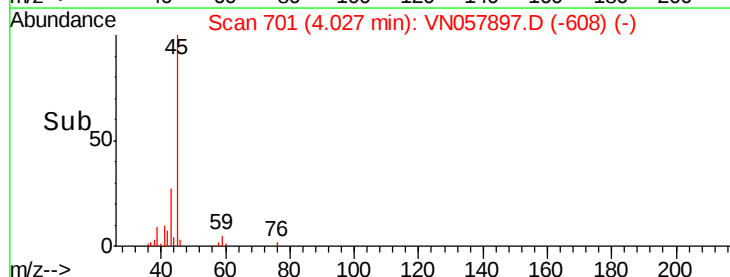
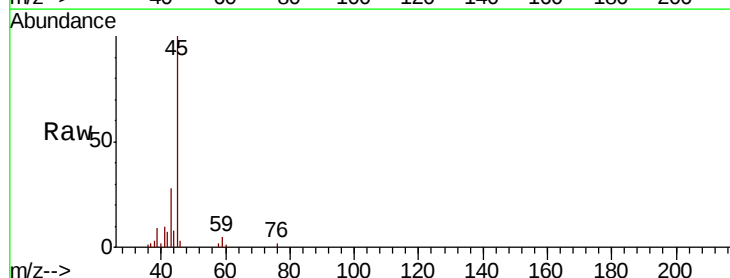
Acq: 11 Sep 2019 4:48

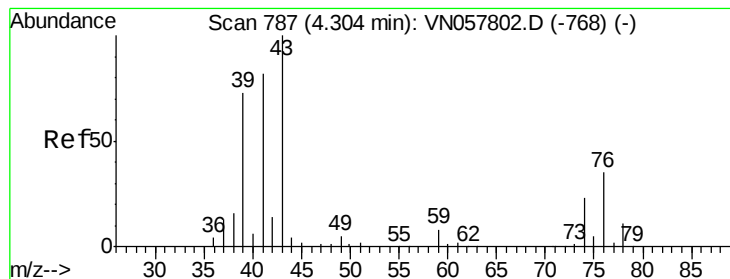
Tgt Ion: 76 Resp: 426

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#





#18

Methyl Acetate

Concen: 0.762 ug/l

RT: 4.31 min Scan# 789

Delta R.T. 0.01 min

Lab File: VN057897.D

Acq: 11 Sep 2019 4:48

Instrument :

MSVOA_N

ClientSampled :

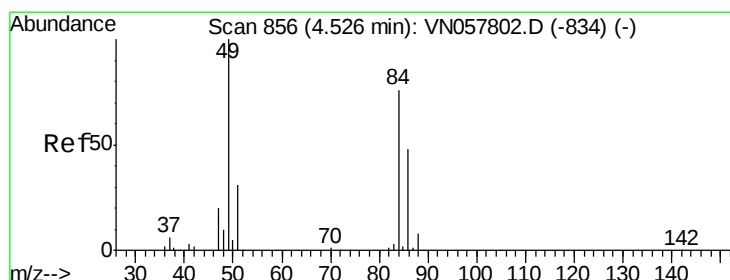
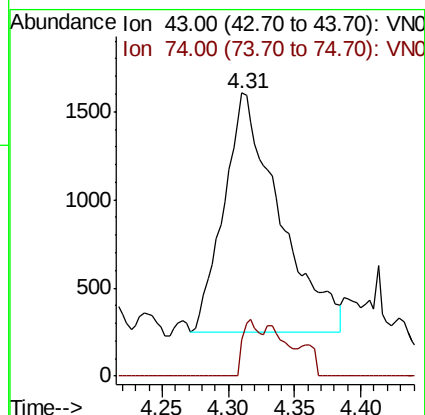
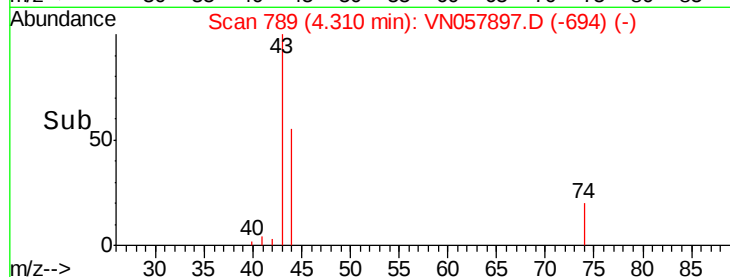
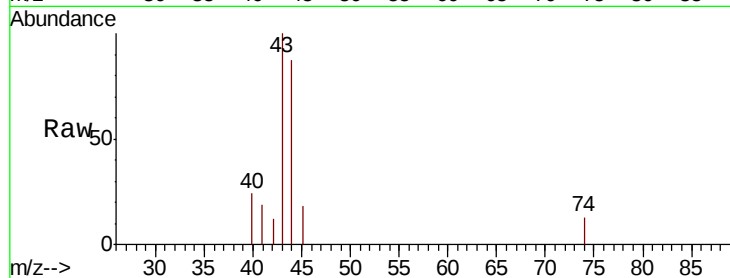
EB-01-091019

Tgt Ion: 43 Resp: 3927

Ion Ratio Lower Upper

43 100

74 7.7 17.9 26.9#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.53 min Scan# 858

Delta R.T. 0.01 min

Lab File: VN057897.D

Acq: 11 Sep 2019 4:48

Tgt Ion: 84 Resp: 1005

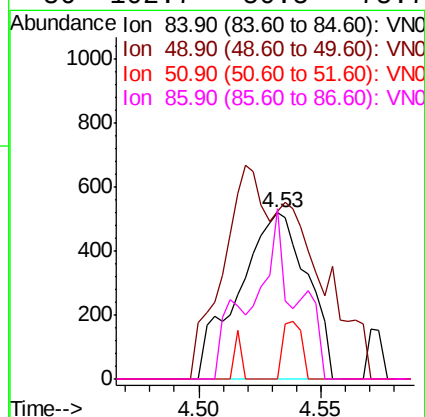
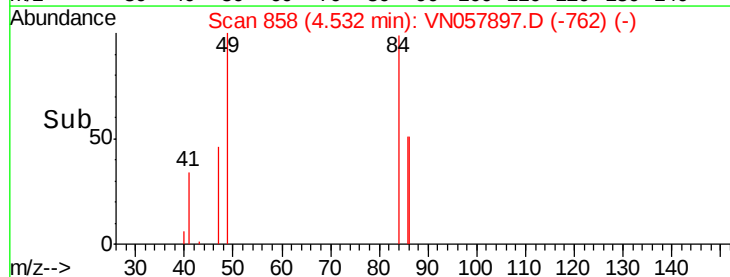
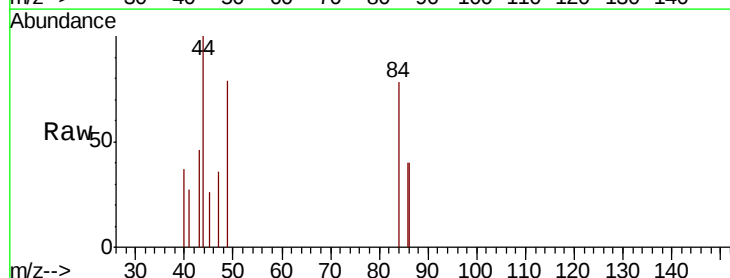
Ion Ratio Lower Upper

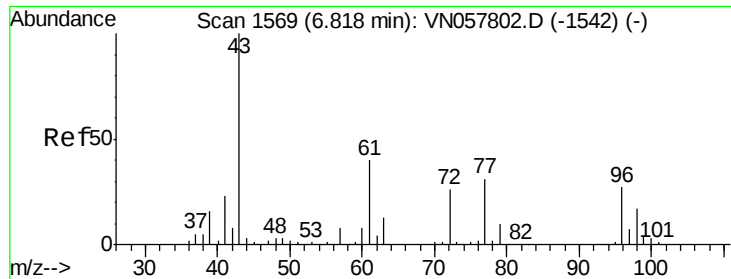
84 100

49 101.0 104.8 157.2#

51 0.0 33.0 49.4#

86 102.7 50.5 75.7#





#25

2-Butanone

Concen: 0.208 ug/l

RT: 6.80 min Scan# 1564

Delta R.T. -0.02 min

Lab File: VN057897.D

Acq: 11 Sep 2019 4:48

Instrument :

MSVOA_N

ClientSampled :

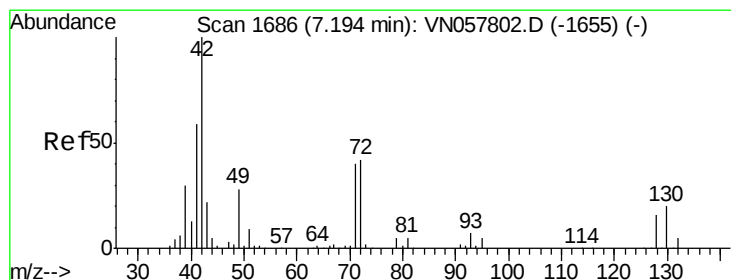
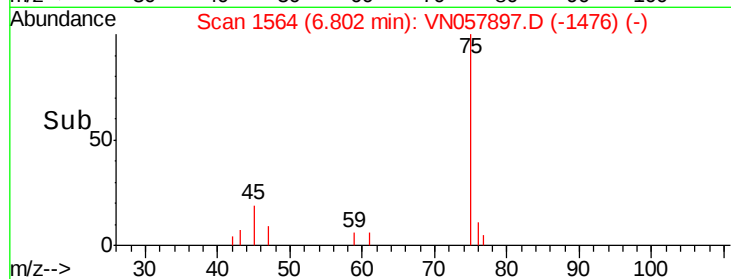
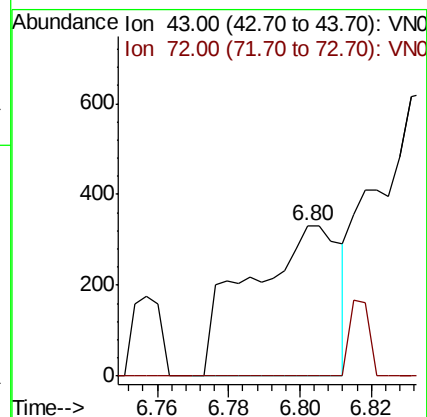
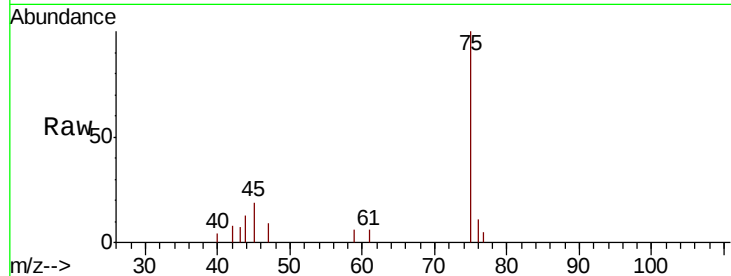
EB-01-091019

Tgt Ion: 43 Resp: 581

Ion Ratio Lower Upper

43 100

72 0.0 20.6 30.8#



#29

Tetrahydrofuran

Concen: 0.402 ug/l

RT: 7.20 min Scan# 1689

Delta R.T. 0.01 min

Lab File: VN057897.D

Acq: 11 Sep 2019 4:48

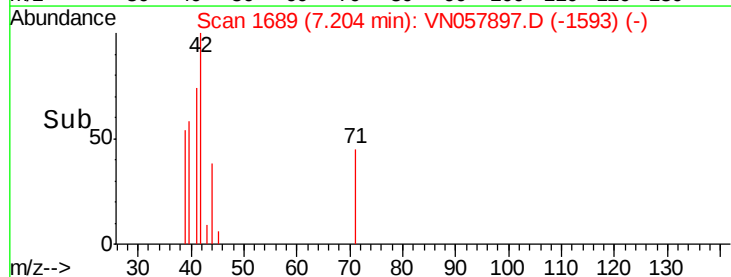
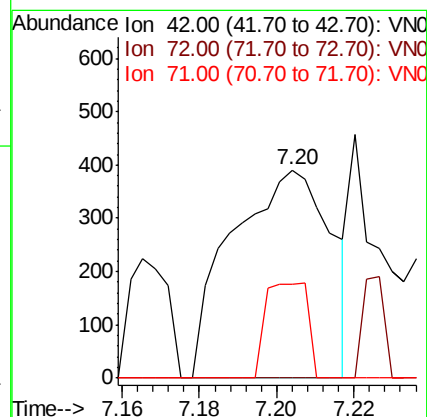
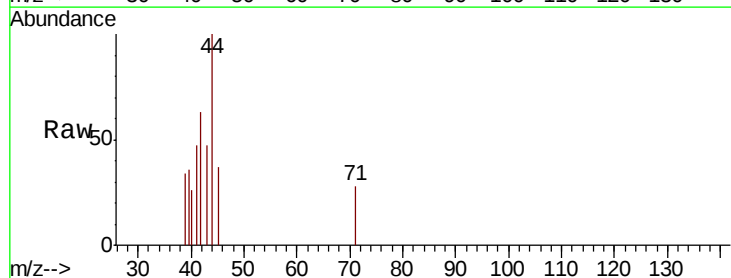
Tgt Ion: 42 Resp: 693

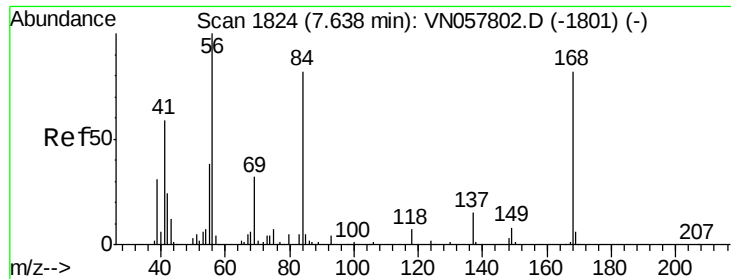
Ion Ratio Lower Upper

42 100

72 0.0 33.7 50.5#

71 19.5 31.9 47.9#

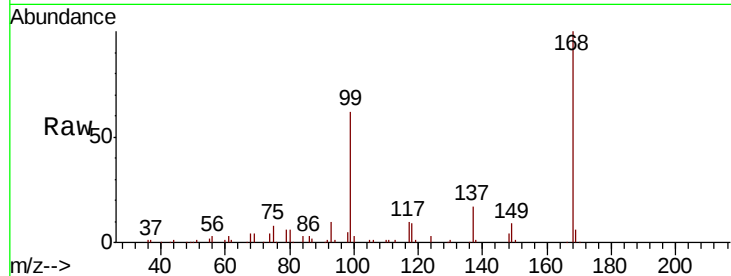




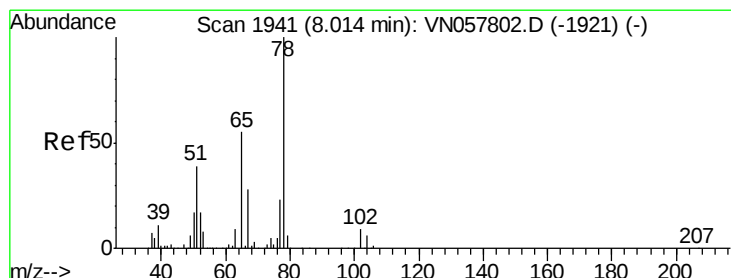
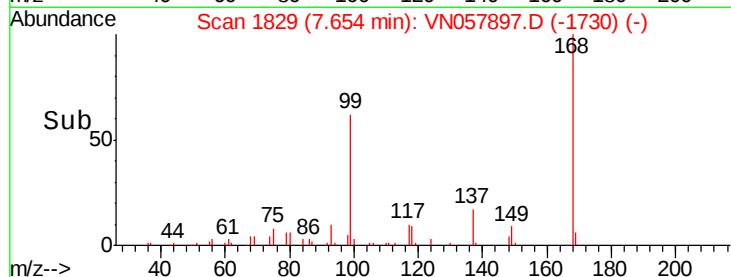
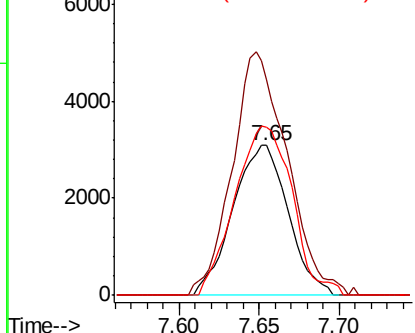
#31
Cyclohexane
Concen: Below Cal
RT: 7.65 min Scan# 1829
Delta R.T. 0.02 min
Lab File: VN057897.D
Acq: 11 Sep 2019 4:48

Instrument :
MSVOA_N
ClientSampleId :
EB-01-091019

Tgt Ion: 56 Resp: 7313
Ion Ratio Lower Upper
56 100
69 143.6 25.9 38.9#
84 112.4 65.6 98.4#

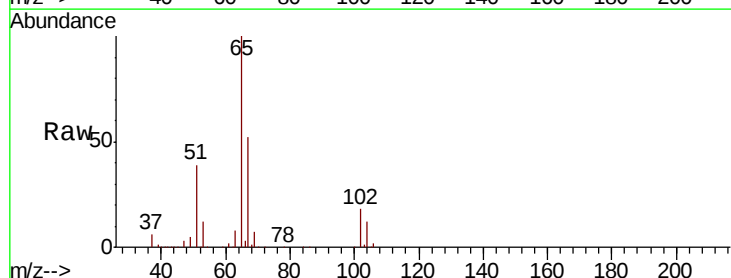


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

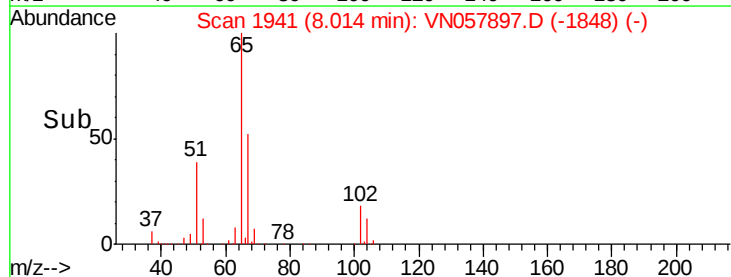
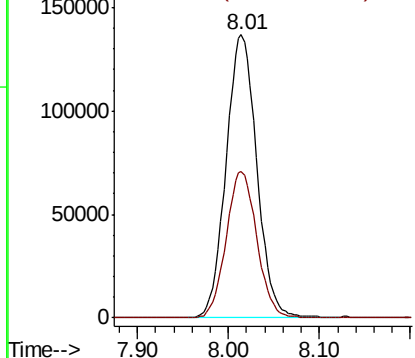


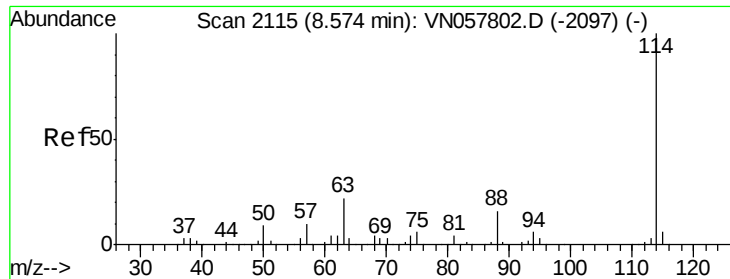
#33
1,2-Dichloroethane-d4
Concen: 54.515 ug/l
RT: 8.01 min Scan# 1941
Delta R.T. 0.00 min
Lab File: VN057897.D
Acq: 11 Sep 2019 4:48

Tgt Ion: 65 Resp: 321465
Ion Ratio Lower Upper
65 100
67 51.5 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VNC
Ion 66.90 (66.60 to 67.60): VNC

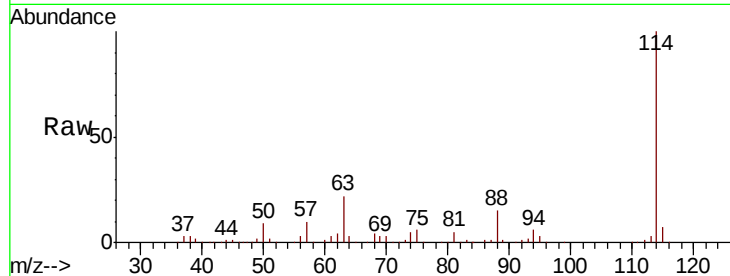




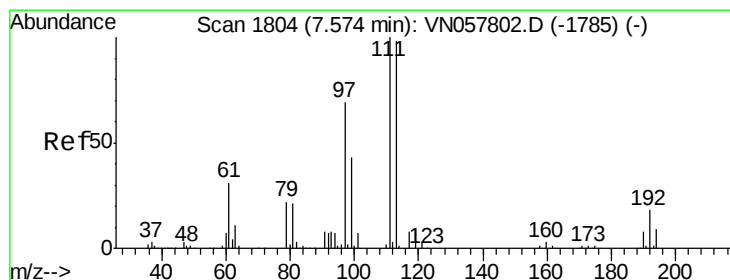
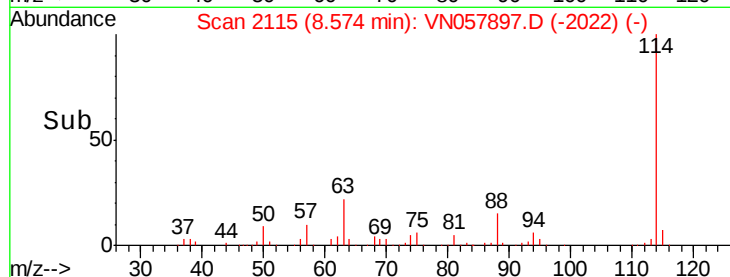
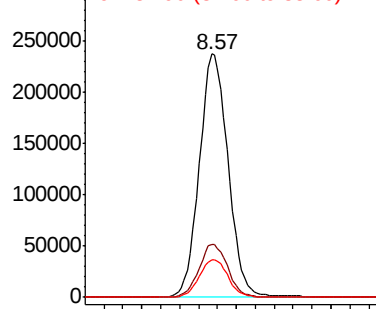
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.57 min Scan# 2115
Delta R.T. 0.00 min
Lab File: VN057897.D
Acq: 11 Sep 2019 4:48

Instrument :
MSVOA_N
ClientSampleId :
EB-01-091019

Tgt Ion:114 Resp: 502419
Ion Ratio Lower Upper
114 100
63 21.9 0.0 44.0
88 15.2 0.0 31.4

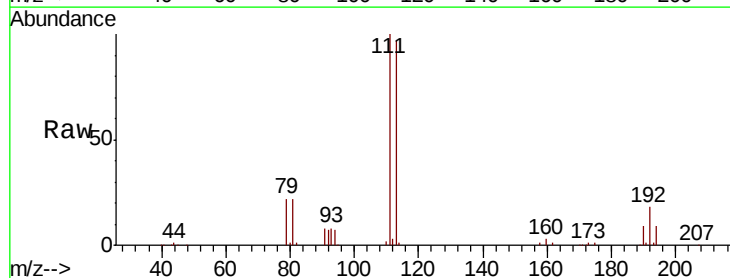


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

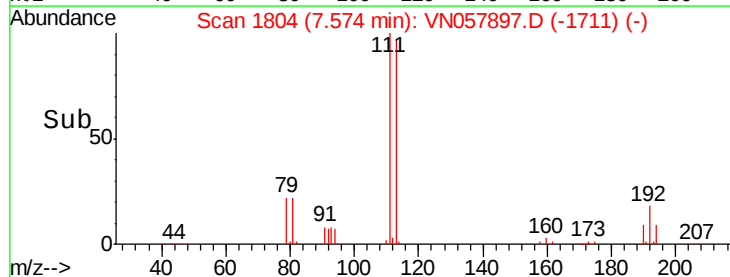
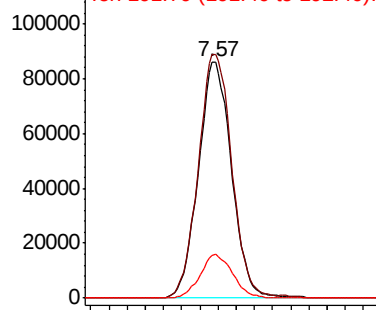


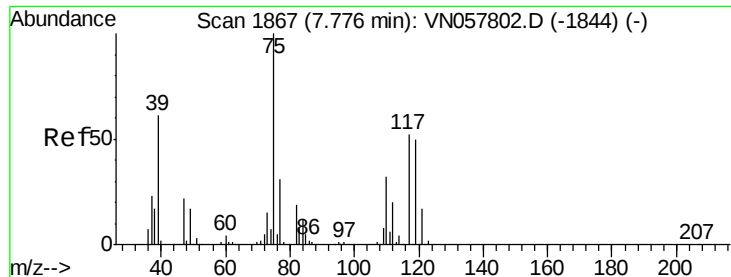
#35
Dibromofluoromethane
Concen: 47.113 ug/l
RT: 7.57 min Scan# 1804
Delta R.T. 0.00 min
Lab File: VN057897.D
Acq: 11 Sep 2019 4:48

Tgt Ion:113 Resp: 218471
Ion Ratio Lower Upper
113 100
111 103.7 81.3 121.9
192 18.0 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

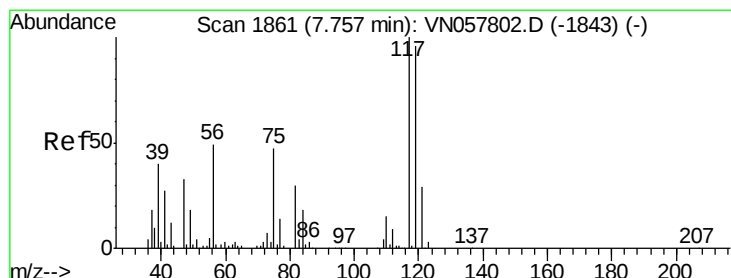
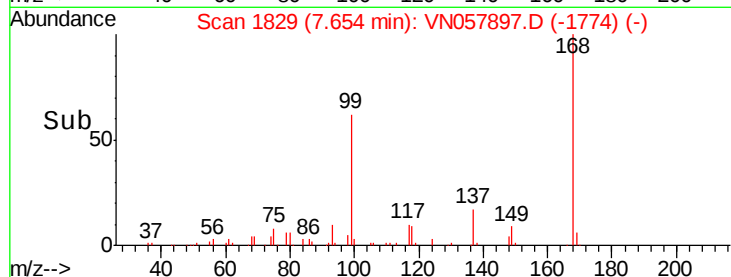
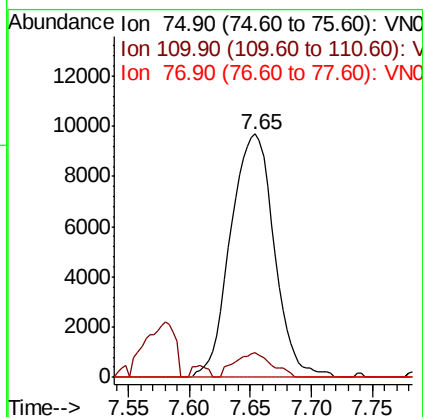
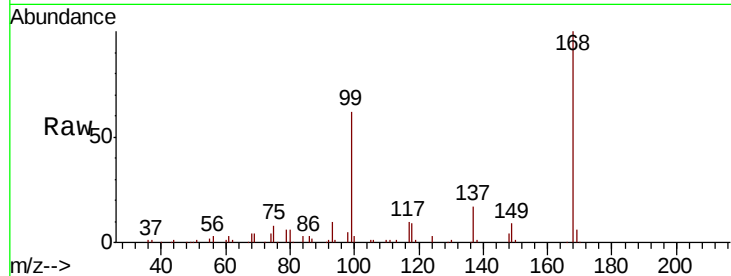




#36
 1,1-Dichloropropene
 Concen: 4.124 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.12 min
 Lab File: VN057897.D
 Acq: 11 Sep 2019 4:48

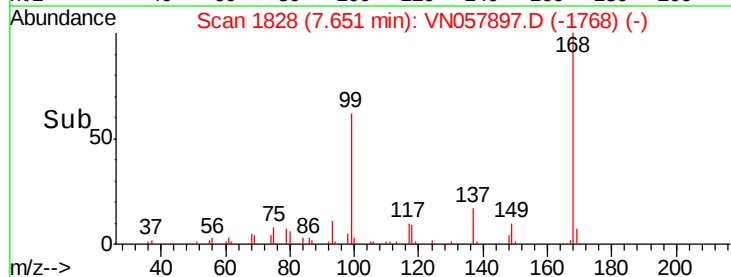
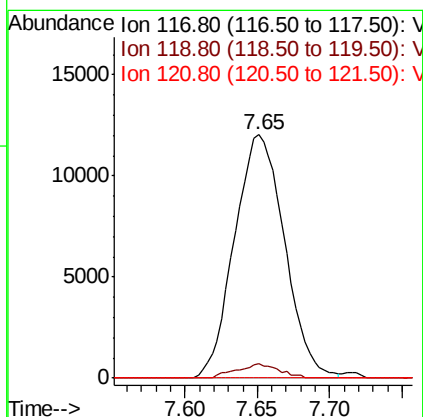
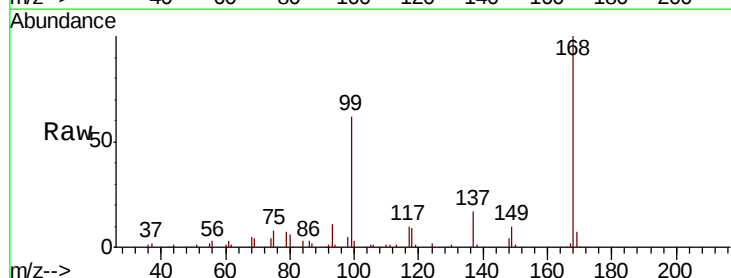
Instrument :
 MSVOA_N
 ClientSampleId :
 EB-01-091019

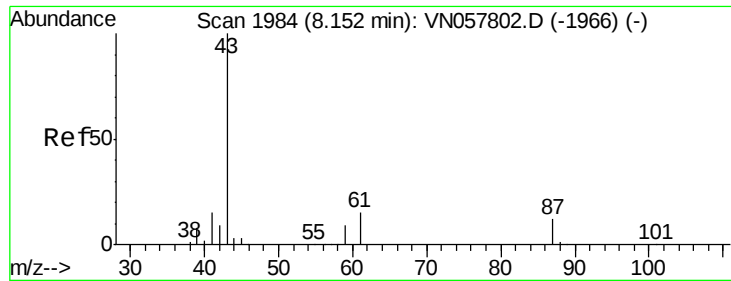
Tgt Ion: 75 Resp: 24027
 Ion Ratio Lower Upper
 75 100
 110 8.5 16.3 48.9#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 5.439 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN057897.D
 Acq: 11 Sep 2019 4:48

Tgt Ion: 117 Resp: 28935
 Ion Ratio Lower Upper
 117 100
 119 5.7 76.9 115.3#
 121 0.0 23.4 35.2#





#43

Isopropyl Acetate

Concen: 2.760 ug/l

RT: 8.27 min Scan# 2022

Delta R.T. 0.12 min

Lab File: VN057897.D

Acq: 11 Sep 2019 4:48

Instrument :

MSVOA_N

ClientSampleId :

EB-01-091019

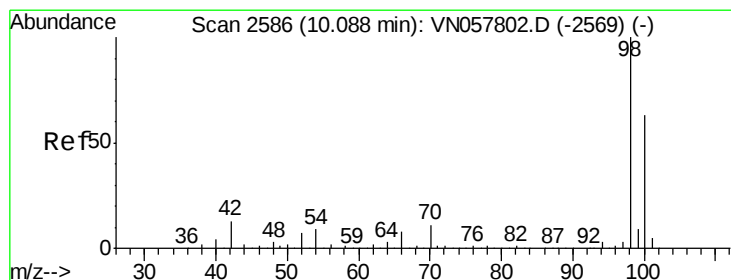
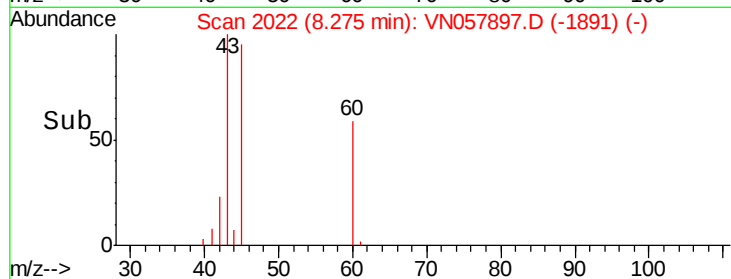
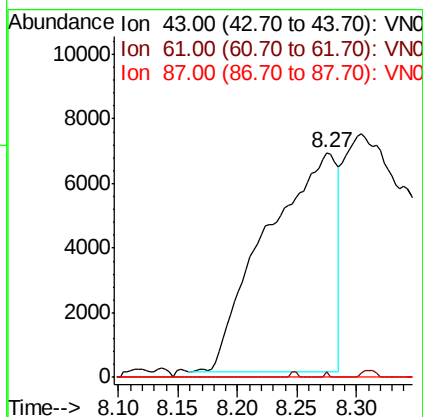
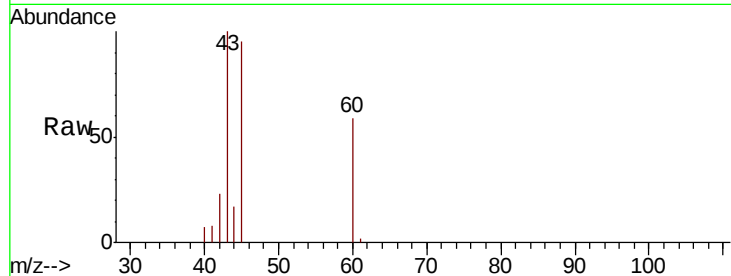
Tgt Ion: 43 Resp: 27946

Ion Ratio Lower Upper

43 100

61 0.0 20.1 30.1#

87 0.0 9.5 14.3#



#50

Toluene-d8

Concen: 49.947 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN057897.D

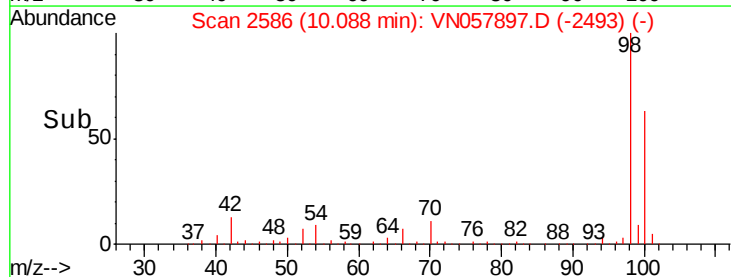
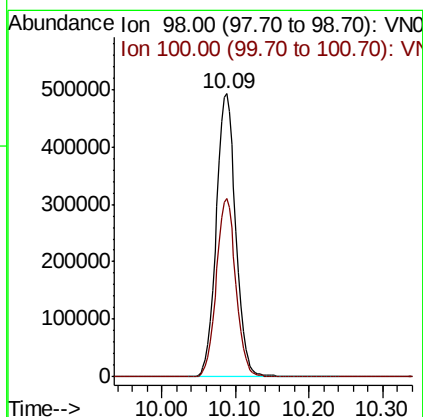
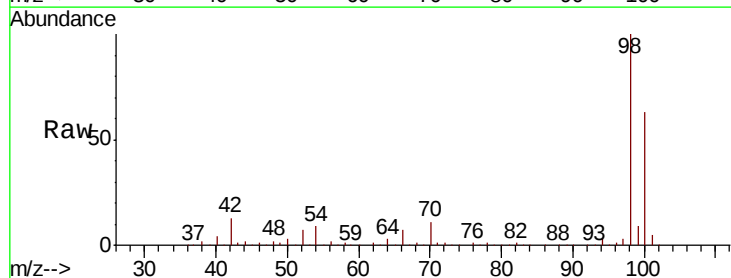
Acq: 11 Sep 2019 4:48

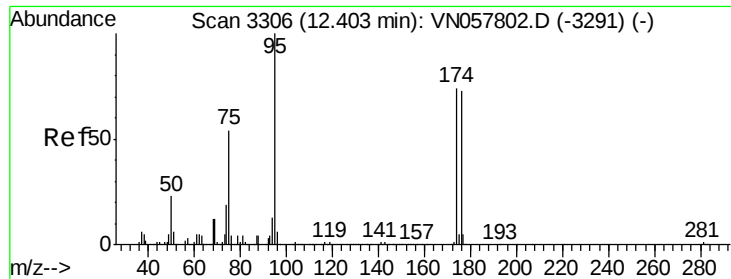
Tgt Ion: 98 Resp: 899229

Ion Ratio Lower Upper

98 100

100 63.3 50.3 75.5





#62

4-Bromofluorobenzene

Concen: 42.208 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN057897.D

Acq: 11 Sep 2019 4:48

Instrument :

MSVOA_N

ClientSampleId :

EB-01-091019

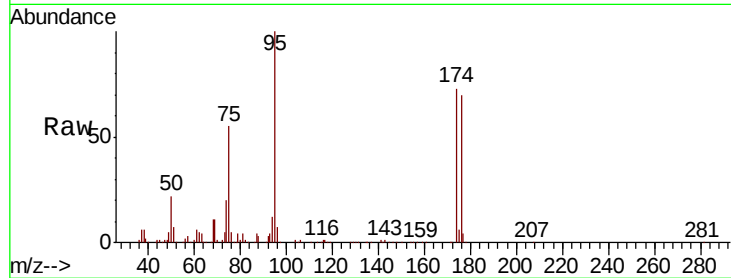
Tgt Ion: 95 Resp: 289588

Ion Ratio Lower Upper

95 100

174 75.5 0.0 150.2

176 72.6 0.0 146.0

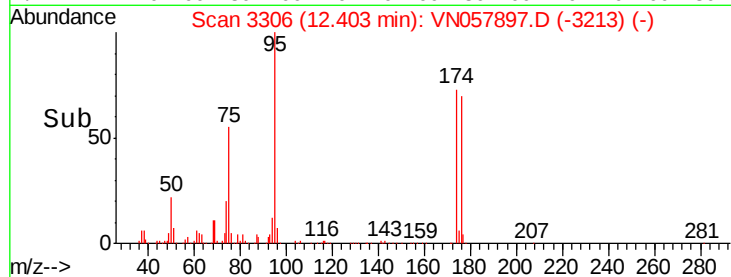


Abundance Ion 94.90 (94.60 to 95.60): VN057802.D (-3291) (-)

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

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

Time--> 12.30 12.40 12.50

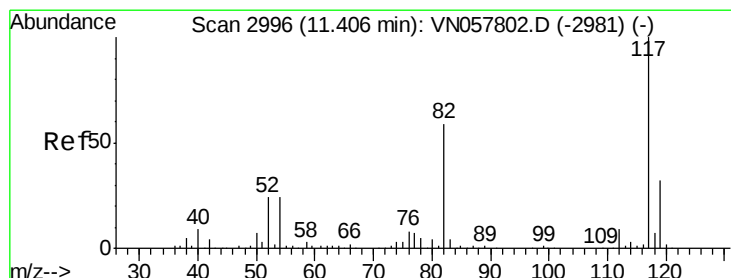


Abundance Ion 94.90 (94.60 to 95.60): VN057897.D (-3213) (-)

Ion 173.80 (173.50 to 174.50): VN057897.D (-3213) (-)

Ion 175.80 (175.50 to 176.50): VN057897.D (-3213) (-)

Time--> 12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN057897.D

Acq: 11 Sep 2019 4:48

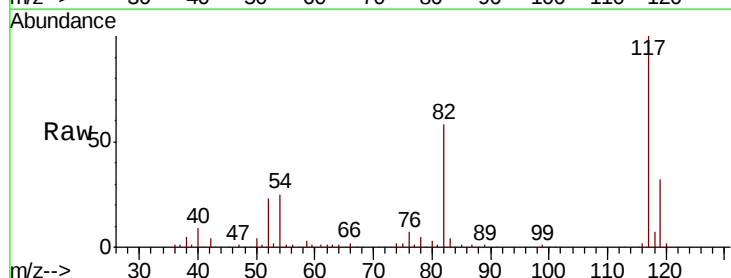
Tgt Ion: 117 Resp: 449496

Ion Ratio Lower Upper

117 100

82 58.5 47.2 70.8

119 31.8 25.3 37.9

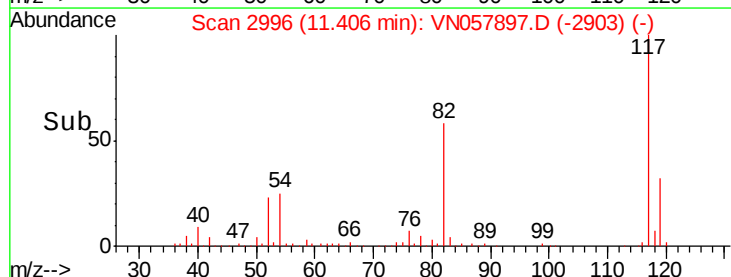


Abundance Ion 116.90 (116.60 to 117.60): VN057802.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN057802.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN057802.D (-2981) (-)

Time--> 11.30 11.40 11.50

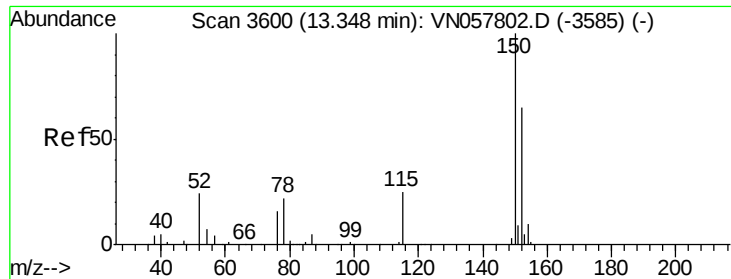


Abundance Ion 116.90 (116.60 to 117.60): VN057897.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN057897.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN057897.D (-2903) (-)

Time--> 11.30 11.40 11.50



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN057897.D

Acq: 11 Sep 2019 4:48

Instrument :

MSVOA_N

ClientSampled :

EB-01-091019

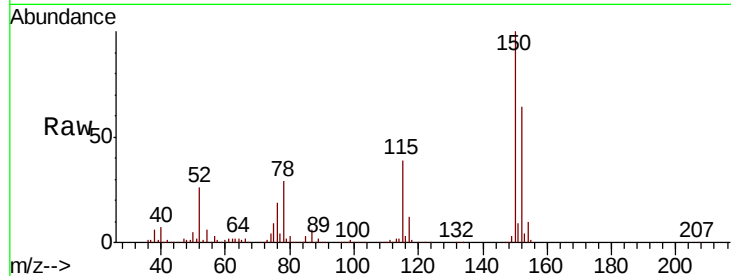
Tgt Ion: 152 Resp: 227414

Ion Ratio Lower Upper

152 100

115 61.9 30.3 91.0

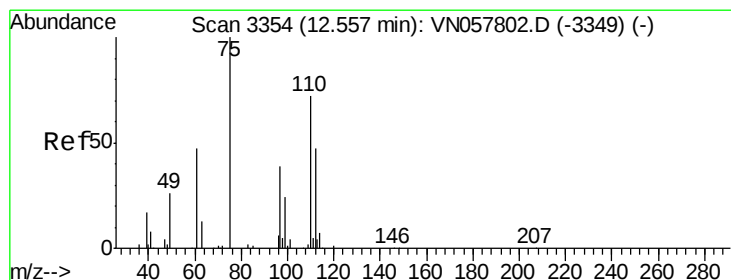
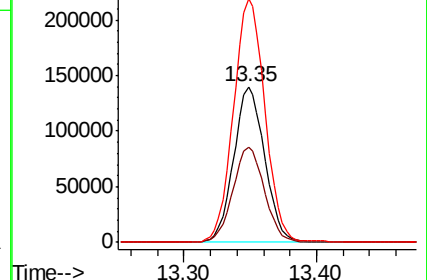
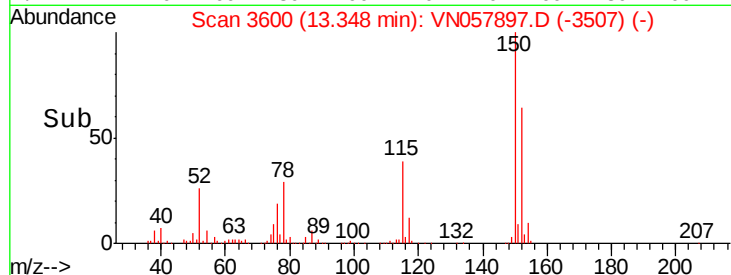
150 158.7 0.0 352.4



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: 30.825 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057897.D

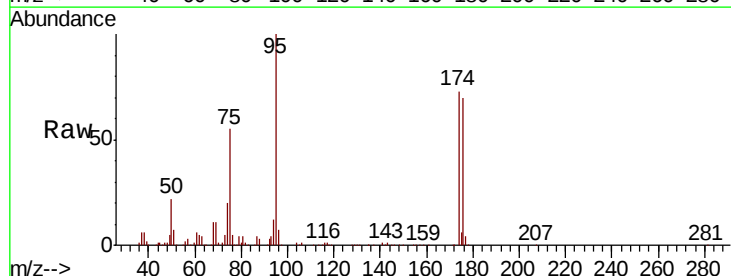
Acq: 11 Sep 2019 4:48

Tgt Ion: 75 Resp: 158578

Ion Ratio Lower Upper

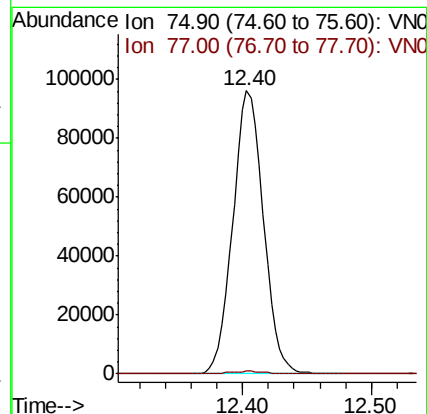
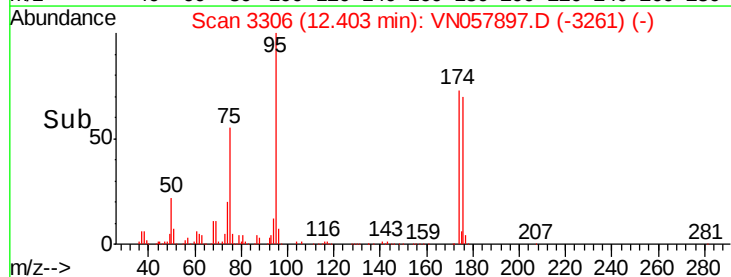
75 100

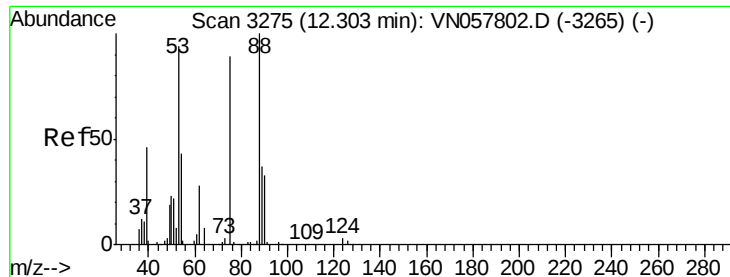
77 1.0 0.0 0.0#



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: 108.473 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN057897.D

Acq: 11 Sep 2019 4:48

Instrument :

MSVOA_N

ClientSampled :

EB-01-091019

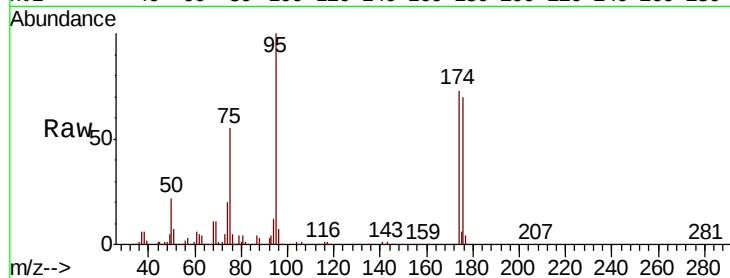
Tgt Ion: 75 Resp: 158578

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

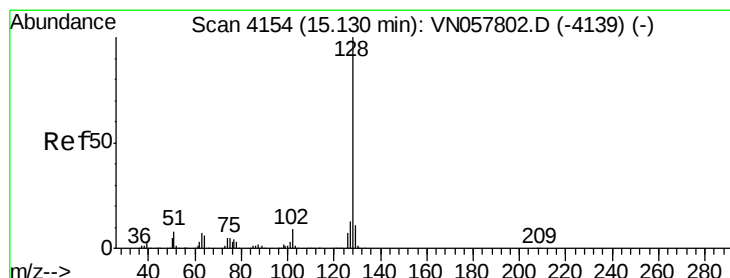
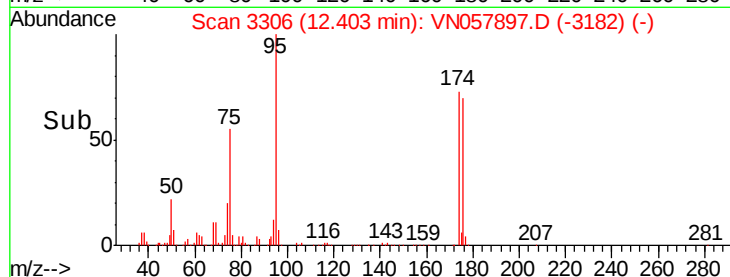
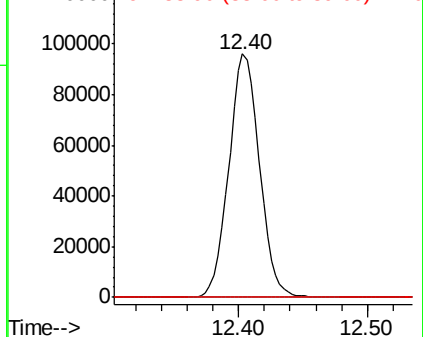
89 0.0 35.3 52.9#



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



#95

Naphthalene

Concen: Below Cal

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN057897.D

Acq: 11 Sep 2019 4:48

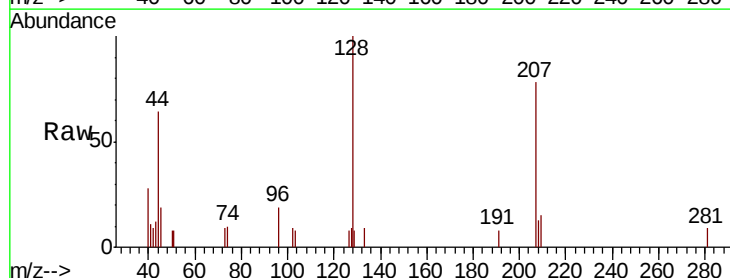
Tgt Ion: 128 Resp: 3105

Ion Ratio Lower Upper

128 100

127 8.2 10.3 15.5#

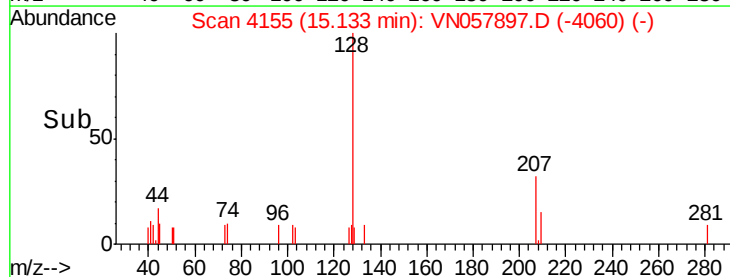
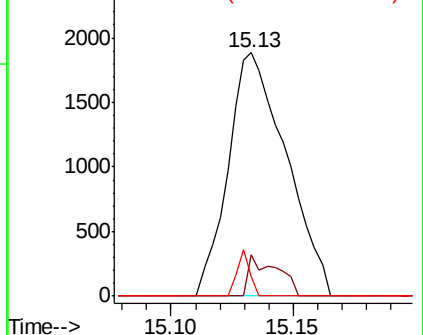
129 4.2 8.6 12.8#

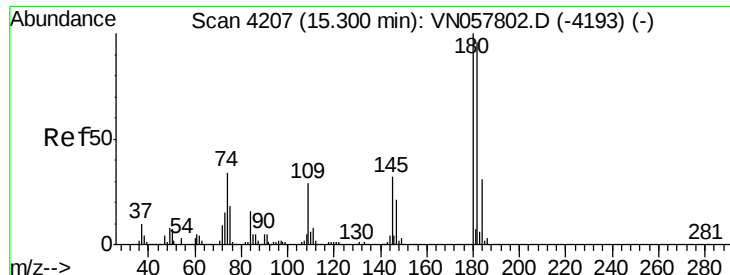


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 1.076 ug/l
 RT: 15.30 min Scan# 4208
 Delta R.T. 0.00 min
 Lab File: VN057897.D
 Acq: 11 Sep 2019 4:48

Instrument :
 MSVOA_N
 ClientSampleId :
 EB-01-091019

Tgt Ion	Ratio	Lower	Upper
180	100		
182	111.2	48.3	144.8
145	17.2	16.3	48.8

