

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091919\
 Data File : VN058209.D
 Acq On : 19 Sep 2019 17:25
 Operator : JC/SP
 Sample : K4896-17
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 EB01-20190912

Quant Time: Sep 20 04:22:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091819W.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 19 09:27:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	506306	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	830864	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	701839	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	289735	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	365340	51.81	ug/l	0.00
Spiked Amount			Recovery	=	103.62%	
35) Dibromofluoromethane	7.58	113	252418	49.97	ug/l	0.00
Spiked Amount			Recovery	=	99.94%	
50) Toluene-d8	10.08	98	1037572	52.72	ug/l	0.00
Spiked Amount			Recovery	=	105.44%	
62) 4-Bromofluorobenzene	12.40	95	332217	45.45	ug/l	0.00
Spiked Amount			Recovery	=	90.90%	

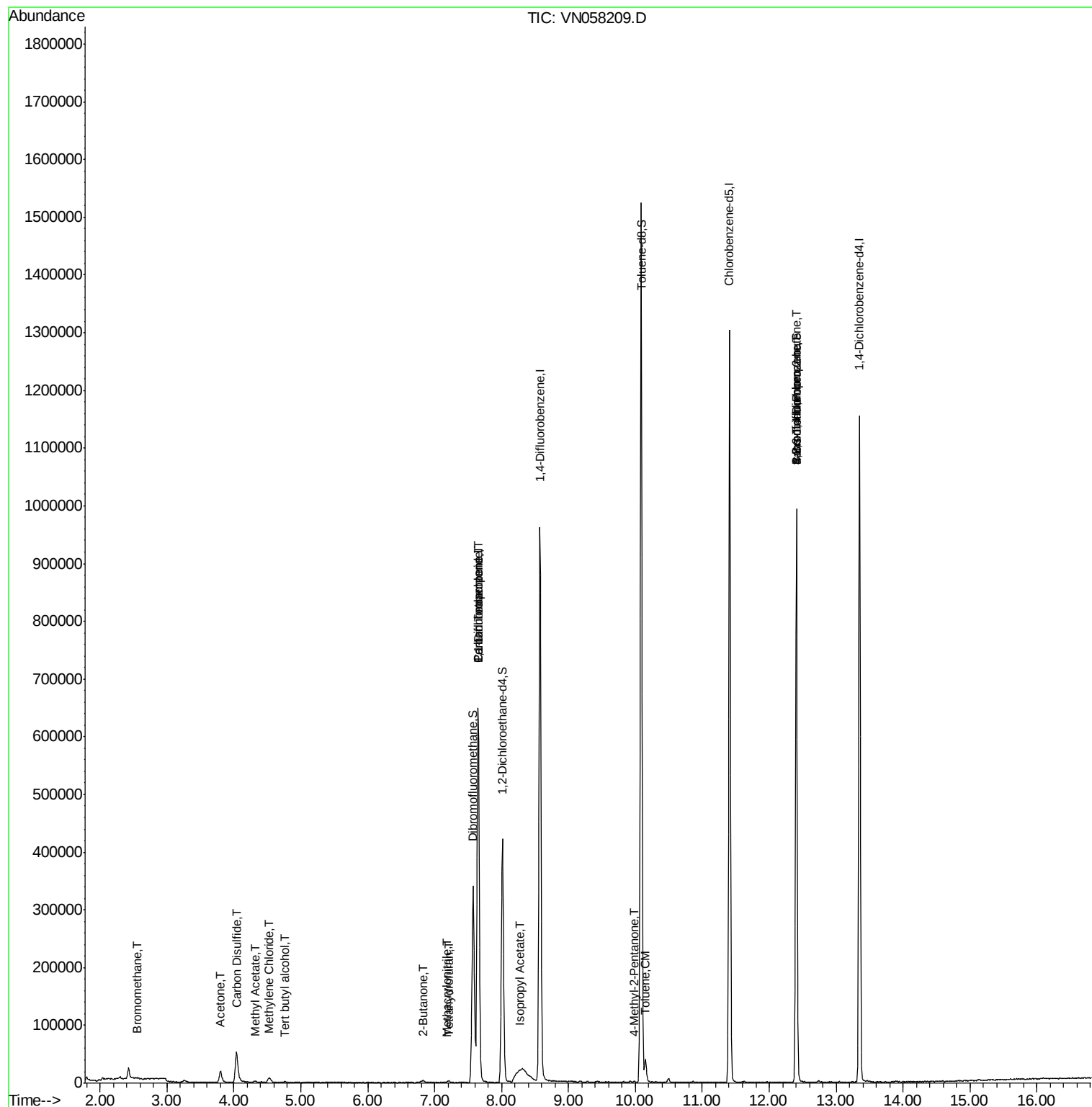
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	1164	Below Cal		89
5) Bromomethane	2.55	94	192	0.824 ug/l #		4
6) Chloroethane	2.69	64	29	Below Cal #		44
11) Tert butyl alcohol	4.76	59	1782	2.124 ug/l #		86
16) Acetone	3.80	43	34562	14.439 ug/l		92
17) Carbon Disulfide	4.04	76	217	0.320 ug/l #		74
18) Methyl Acetate	4.32	43	2660	0.422 ug/l #		62
20) Methylene Chloride	4.52	84	2670	0.417 ug/l		97
25) 2-Butanone	6.82	43	1841	0.565 ug/l		92
29) Tetrahydrofuran	7.20	42	1502	0.748 ug/l #		61
31) Cyclohexane	7.65	56	13252	Below Cal #		16
36) 1,1-Dichloropropene	7.65	75	43017	7.179 ug/l #		51
38) Carbon Tetrachloride	7.65	117	52935	8.789 ug/l #		15
41) Methacrylonitrile	7.18	41	342	1.018 ug/l #		100
43) Isopropyl Acetate	8.26	43	31733	2.733 ug/l #		57
51) 4-Methyl-2-Pentanone	9.97	43	1365	0.221 ug/l #		71
52) Toluene	10.15	92	15154	1.321 ug/l		98
71) Bromoform	12.40	173	2022	4.161 ug/l #		1
76) 1,2,3-Trichloropropane	12.40	75	183673	35.422 ug/l #		100
81) trans-1,4-Dichloro-2-buten	12.40	75	183673	99.017 ug/l #		5

(#) = 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: VN058209.D

Acq: 19 Sep 2019 17:25

Instrument :

MSVOA_N

ClientSampleId :

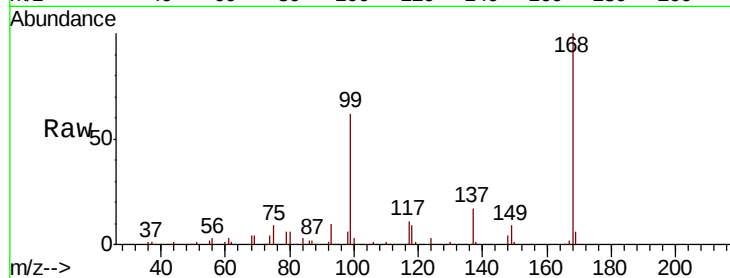
EB01-20190912

Tot Ion:168 Resp: 506306

Ion Ratio Lower Upper

168 100

99 61.6 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

250000

200000

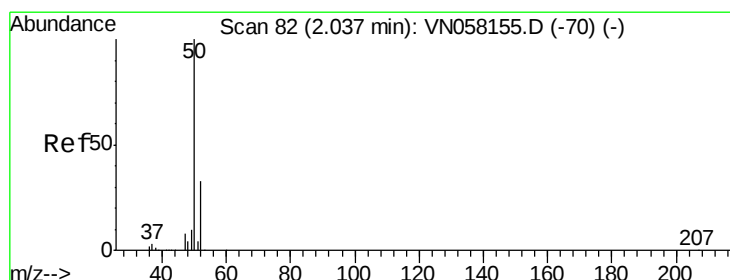
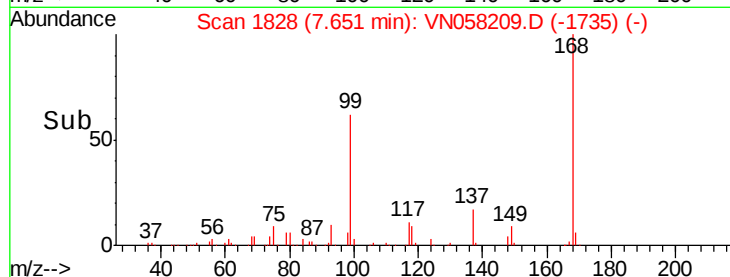
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN058209.D

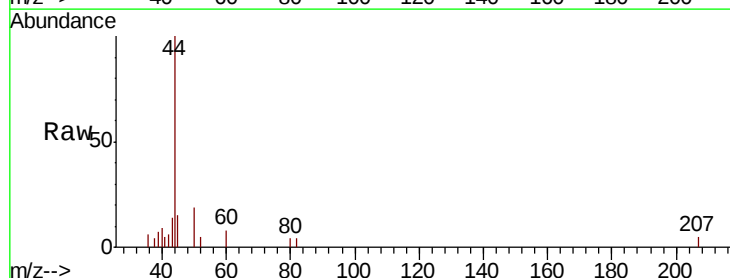
Acq: 19 Sep 2019 17:25

Tgt Ion: 50 Resp: 1164

Ion Ratio Lower Upper

50 100

52 26.6 26.3 39.5



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.04

1000

800

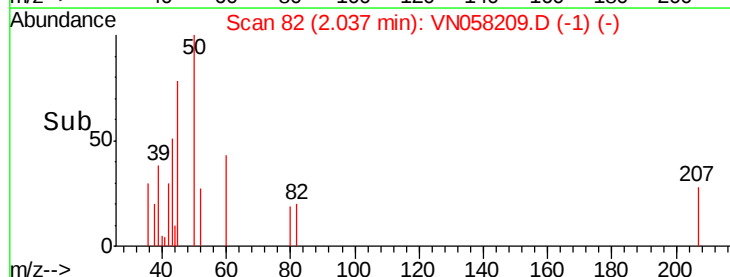
600

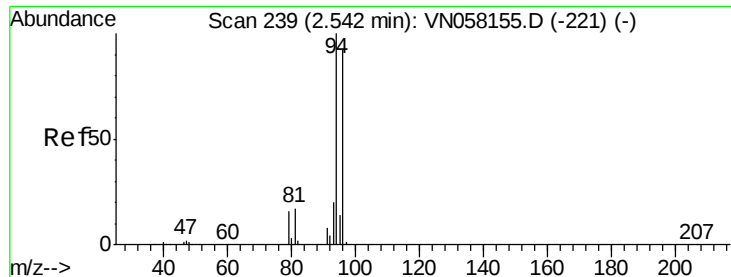
400

200

0

Time--> 2.00 2.02 2.04 2.06 2.08





#5

Bromomethane

Concen: 0.824 ug/l

RT: 2.55 min Scan# 241

Delta R.T. 0.01 min

Lab File: VN058209.D

Acq: 19 Sep 2019 17:25

Instrument :

MSVOA_N

ClientSampleId :

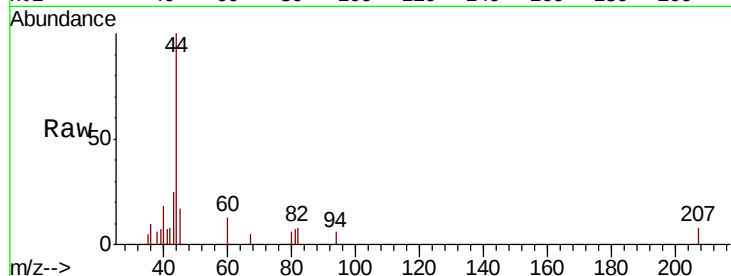
EB01-20190912

Tot Ion: 94 Resp: 192

Ion Ratio Lower Upper

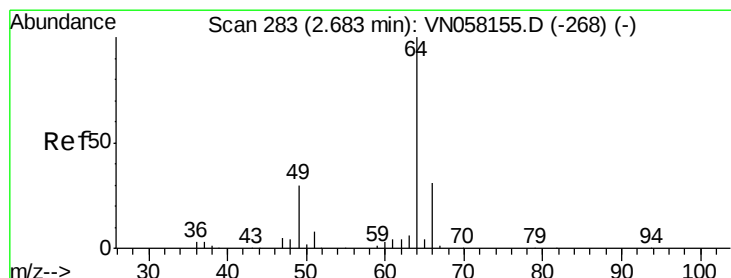
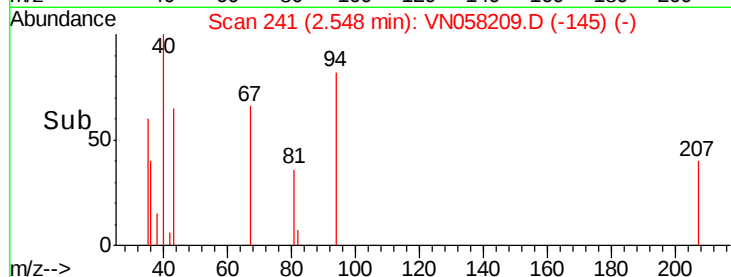
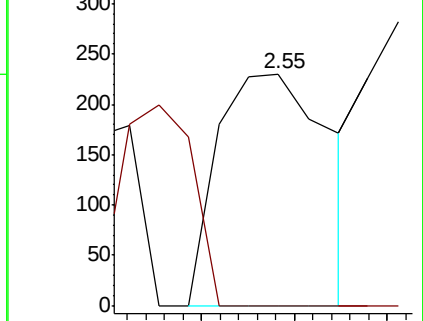
94 100

96 0.0 73.3 109.9#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: Below Cal

RT: 2.69 min Scan# 285

Delta R.T. 0.01 min

Lab File: VN058209.D

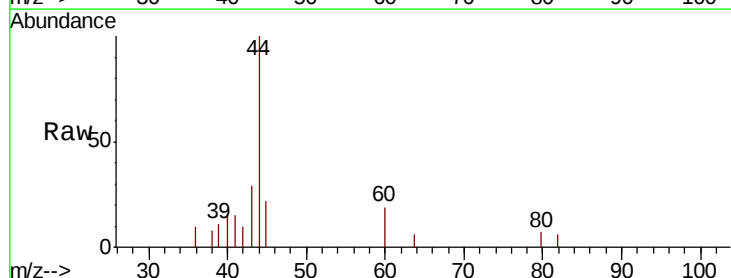
Acq: 19 Sep 2019 17:25

Tgt Ion: 64 Resp: 29

Ion Ratio Lower Upper

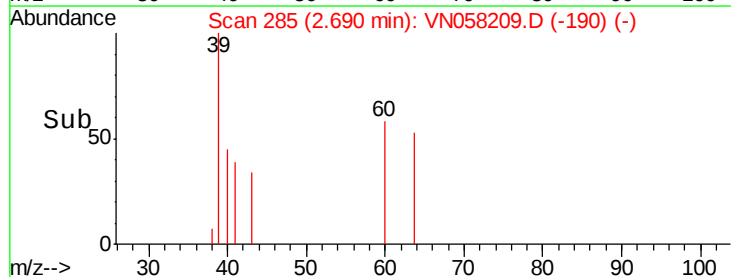
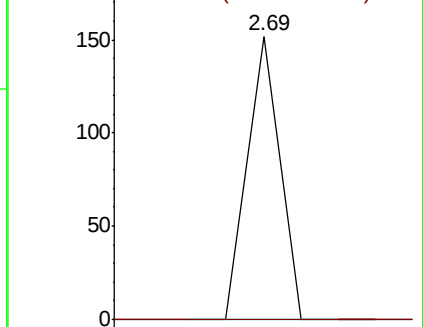
64 100

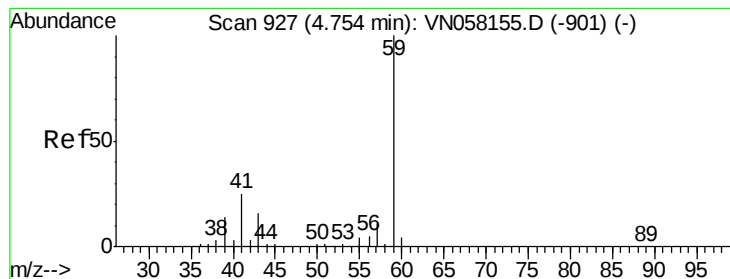
66 0.0 24.6 37.0#



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0



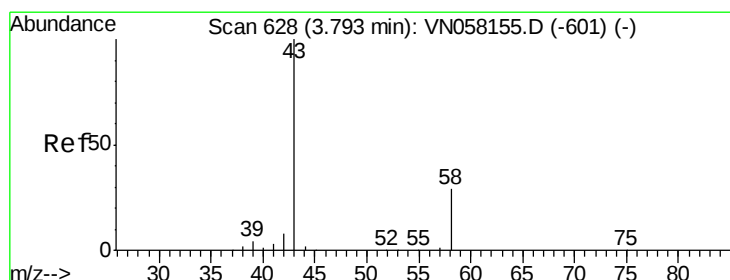
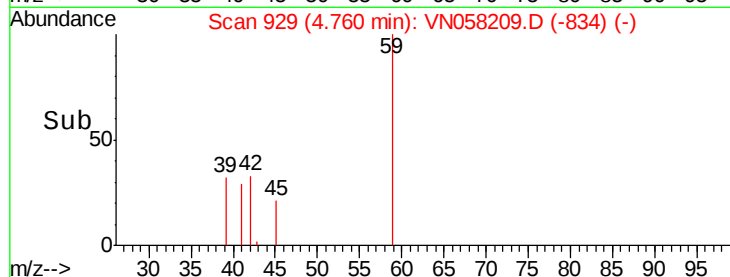
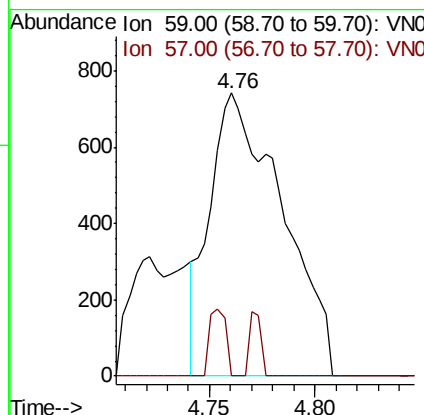
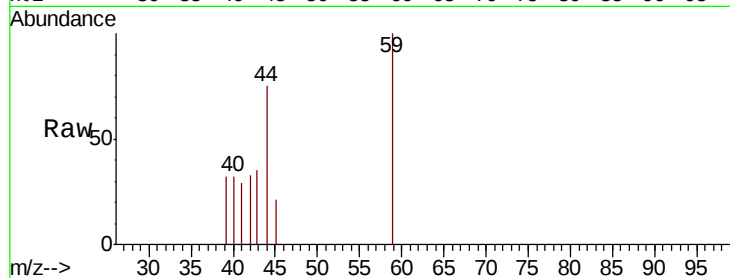


#11

Tert butyl alcohol
 Concen: 2.124 ug/l
 RT: 4.76 min Scan# 929
 Delta R.T. 0.01 min
 Lab File: VN058209.D
 Acq: 19 Sep 2019 17:25

Instrument :
 MSVOA_N
 ClientSampleId :
 EB01-20190912

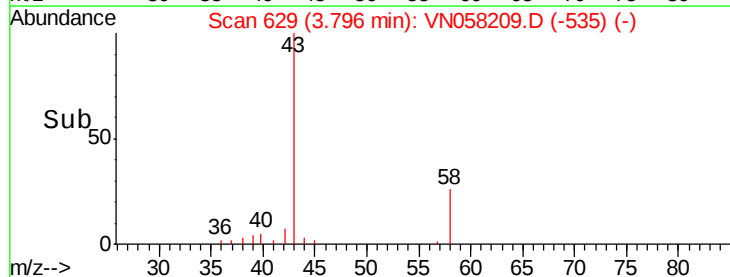
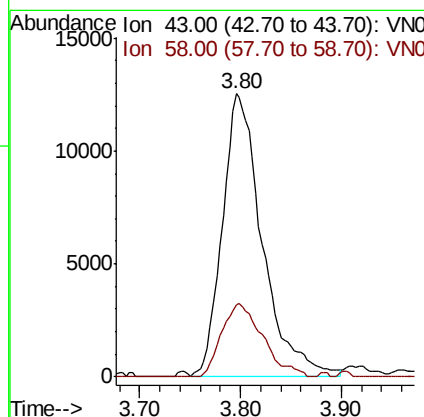
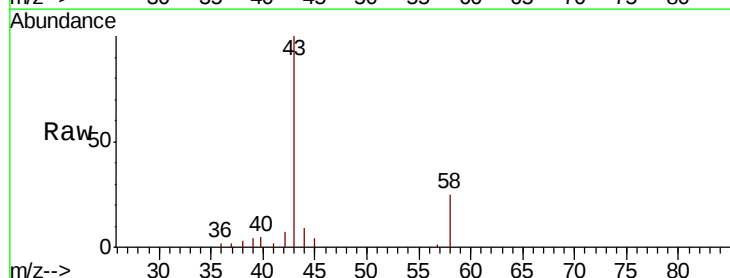
Tot Ion: 59 Resp: 1782
 Ion Ratio Lower Upper
 59 100
 57 5.3 8.6 13.0#

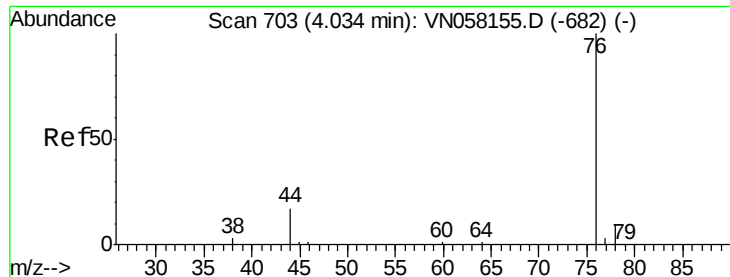


#16

Acetone
 Concen: 14.439 ug/l
 RT: 3.80 min Scan# 629
 Delta R.T. 0.00 min
 Lab File: VN058209.D
 Acq: 19 Sep 2019 17:25

Tgt Ion: 43 Resp: 34562
 Ion Ratio Lower Upper
 43 100
 58 25.3 23.4 35.2

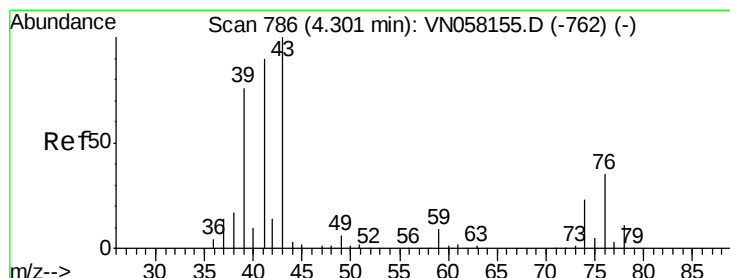
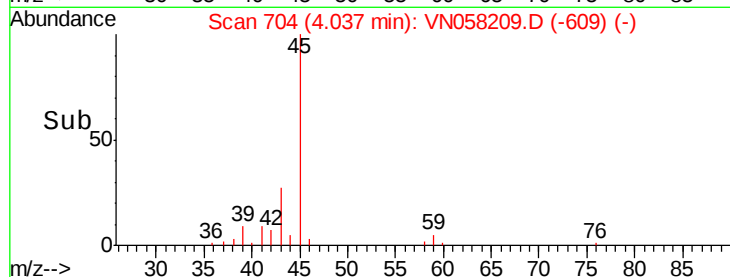
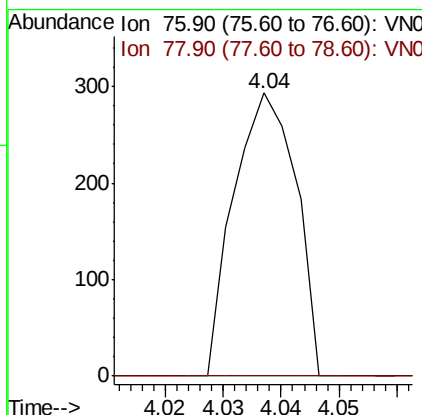
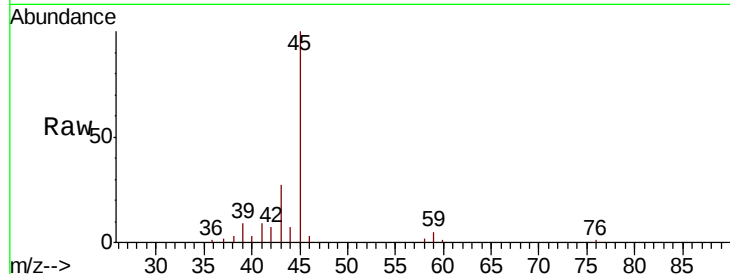




#17
Carbon Disulfide
Concen: 0.320 ug/l
RT: 4.04 min Scan# 704
Delta R.T. 0.00 min
Lab File: VN058209.D
Acq: 19 Sep 2019 17:25

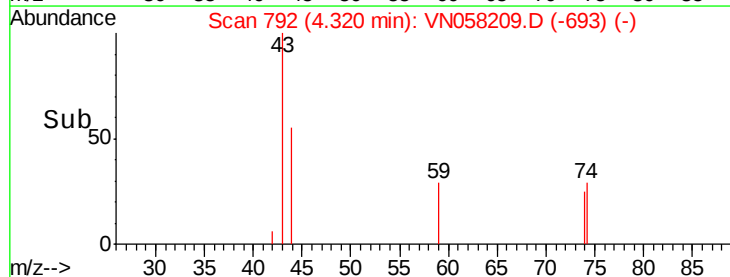
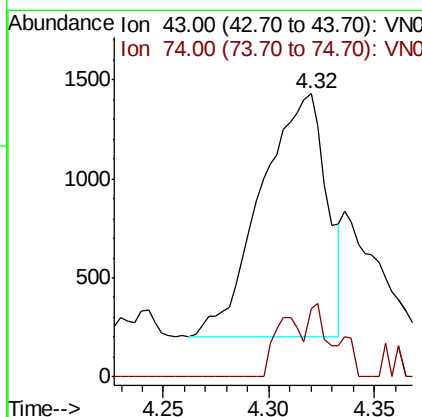
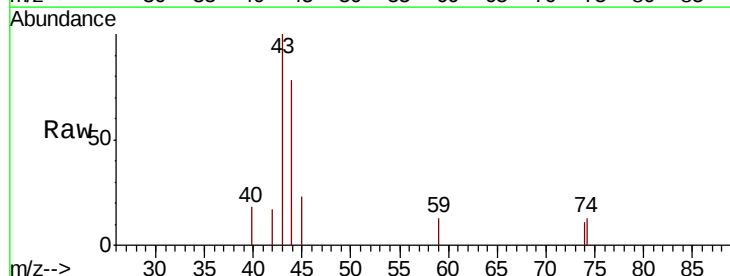
Instrument :
MSVOA_N
ClientSampleId :
EB01-20190912

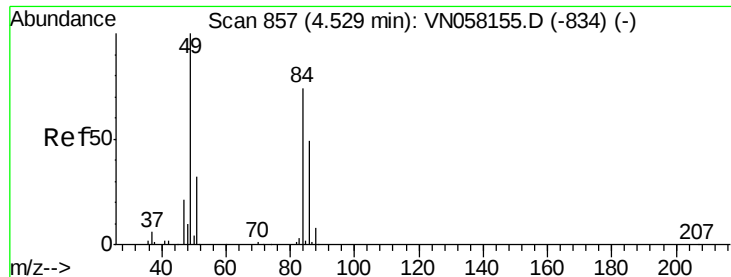
Tot Ion: 76 Resp: 217
Ion Ratio Lower Upper
76 100
78 0.0 7.7 11.5#



#18
Methyl Acetate
Concen: 0.422 ug/l
RT: 4.32 min Scan# 792
Delta R.T. 0.02 min
Lab File: VN058209.D
Acq: 19 Sep 2019 17:25

Tgt Ion: 43 Resp: 2660
Ion Ratio Lower Upper
43 100
74 4.0 18.0 27.0#





#20

Methylene Chloride

Concen: 0.417 ug/l

RT: 4.52 min Scan# 855

Delta R.T. -0.01 min

Lab File: VN058209.D

Acq: 19 Sep 2019 17:25

Instrument :

MSVOA_N

ClientSampleId :

EB01-20190912

Tot Ion: 84 Resp: 2670

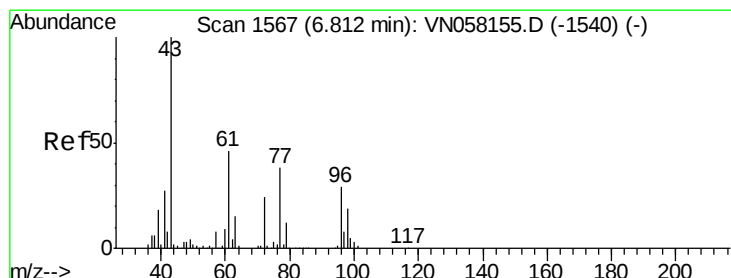
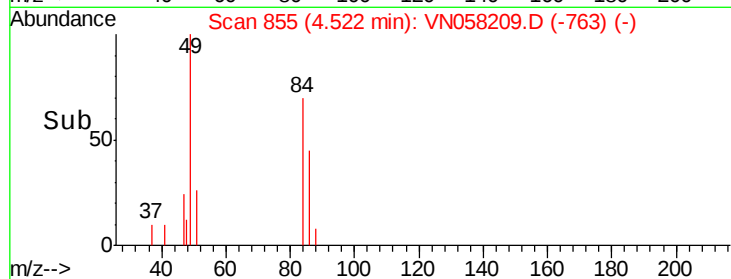
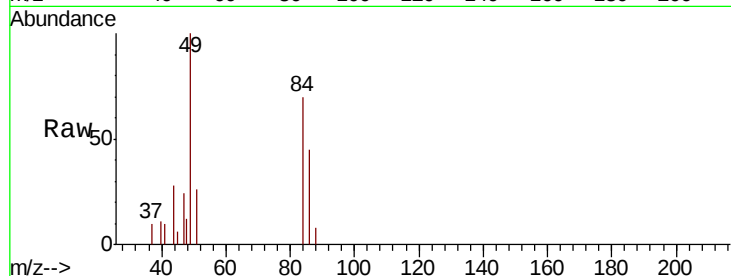
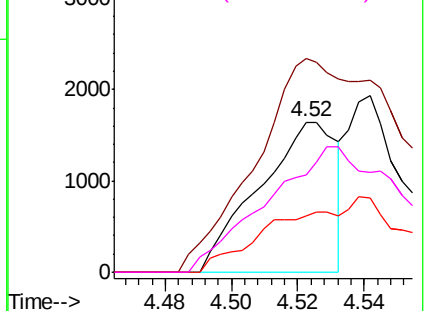
Ion	Ratio	Lower	Upper
84	100		
49	130.6	107.5	161.3
51	37.6	33.9	50.9
86	64.6	52.4	78.6

Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#25

2-Butanone

Concen: 0.565 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. 0.01 min

Lab File: VN058209.D

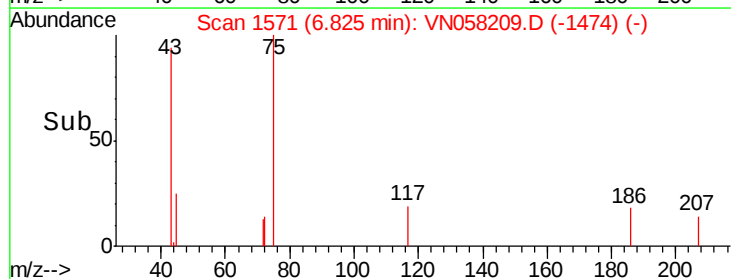
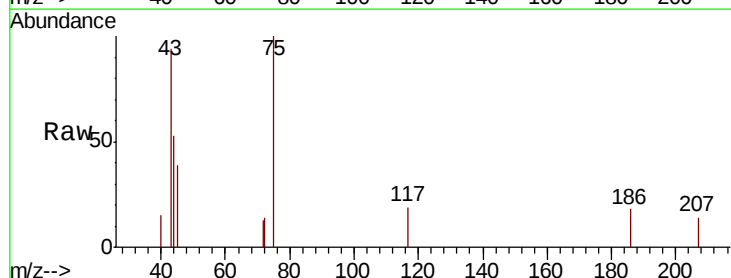
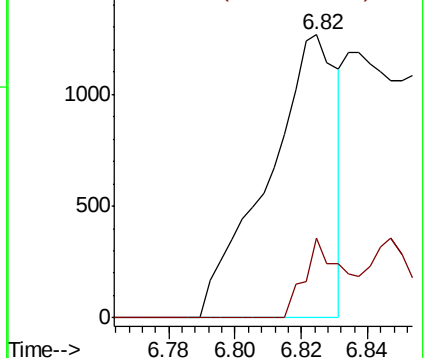
Acq: 19 Sep 2019 17:25

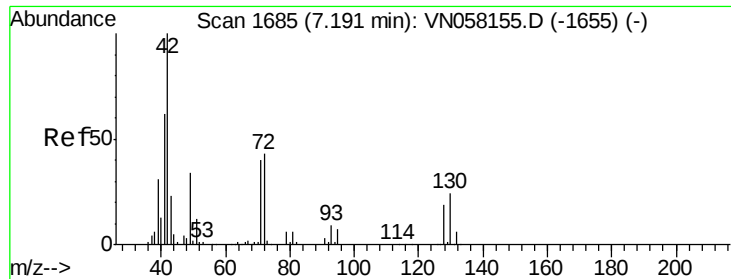
Tgt Ion: 43 Resp: 1841

Ion	Ratio	Lower	Upper
43	100		
72	28.4	19.5	29.3

Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

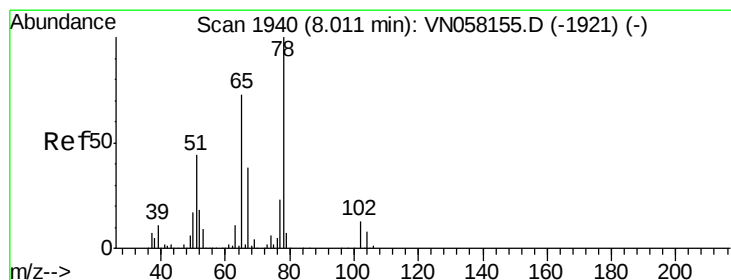
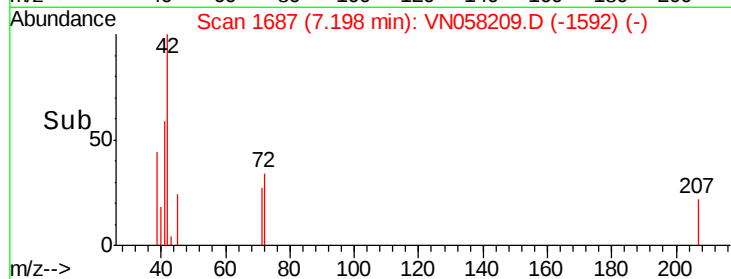
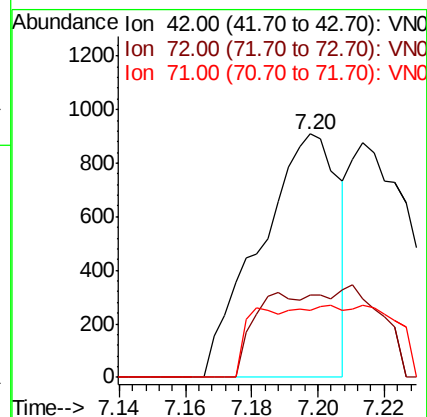
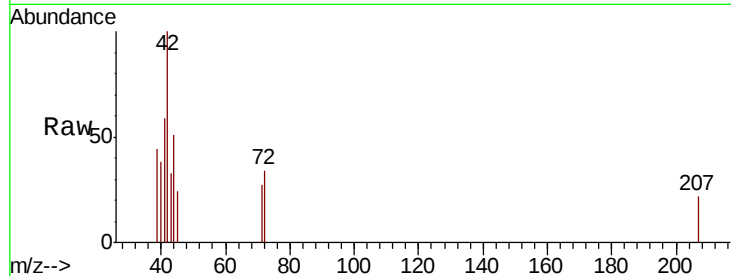




#29
Tetrahydrofuran
Concen: 0.748 ug/l
RT: 7.20 min Scan# 1687
Delta R.T. 0.01 min
Lab File: VN058209.D
Acq: 19 Sep 2019 17:25

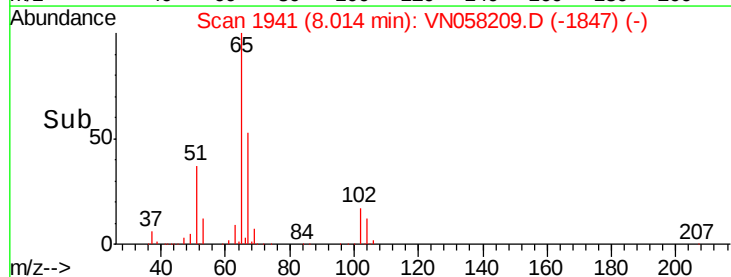
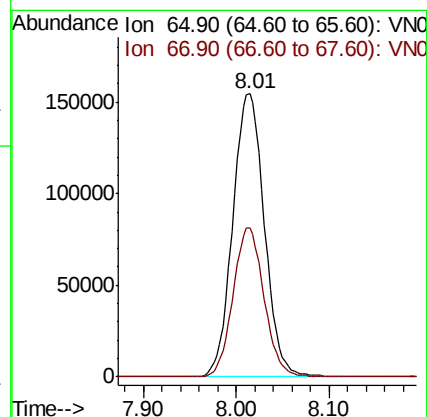
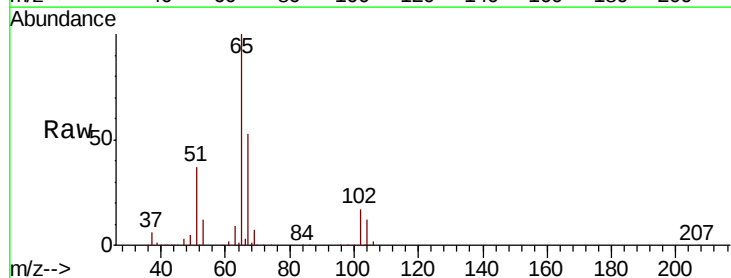
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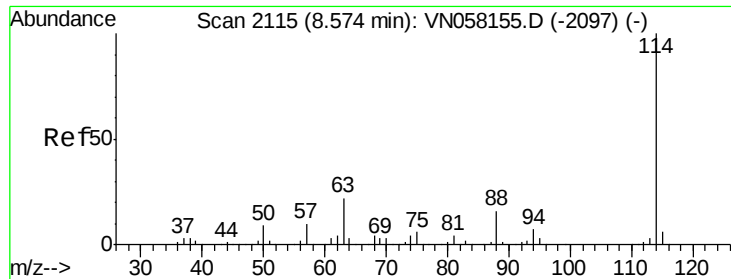
Tot Ion: 42 Resp: 1502
Ion Ratio Lower Upper
42 100
72 20.6 33.8 50.6#
71 12.4 31.4 47.0#



#33
1,2-Dichloroethane-d4
Concen: 51.808 ug/l
RT: 8.01 min Scan# 1941
Delta R.T. 0.00 min
Lab File: VN058209.D
Acq: 19 Sep 2019 17:25

Tgt Ion: 65 Resp: 365340
Ion Ratio Lower Upper
65 100
67 51.6 0.0 103.4

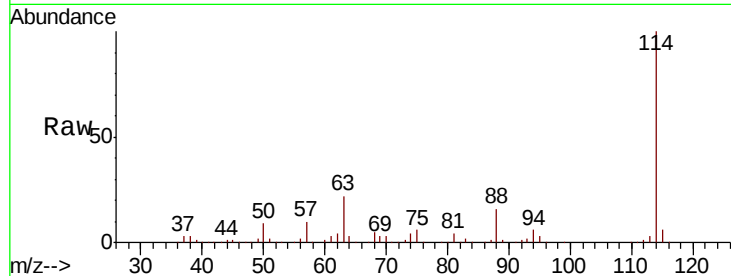




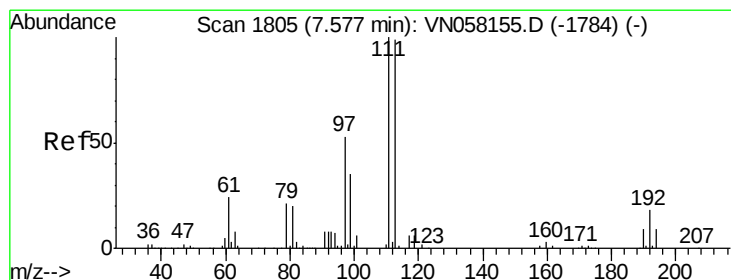
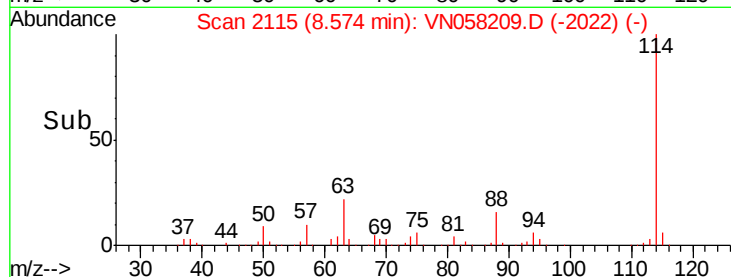
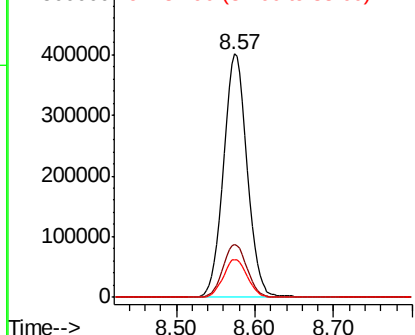
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. -0.00 min
 Lab File: VN058209.D
 Acq: 19 Sep 2019 17:25

Instrument :
 MSVOA_N
 ClientSampleId :
 EB01-20190912

Tot Ion:114 Resp: 830864
 Ion Ratio Lower Upper
 114 100
 63 21.6 0.0 44.2
 88 15.6 0.0 31.6

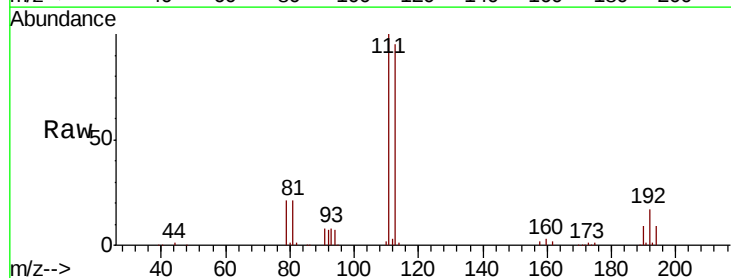


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

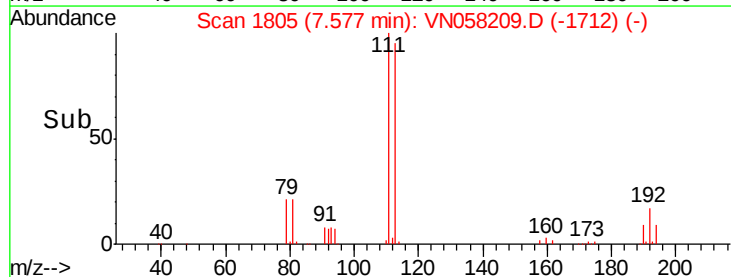
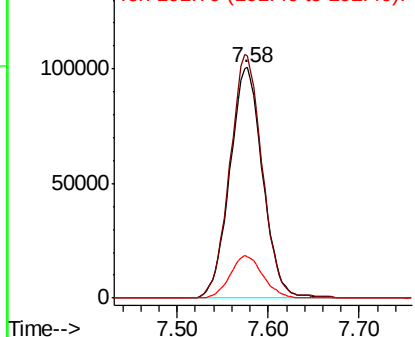


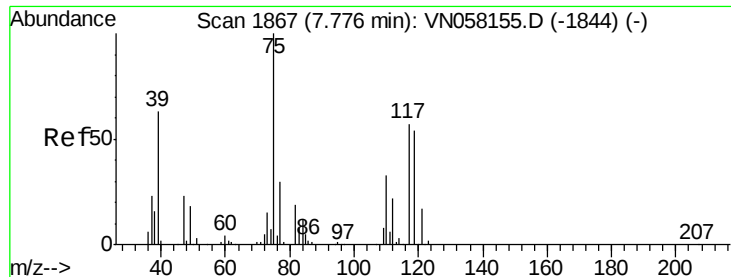
#35
 Dibromofluoromethane
 Concen: 49.974 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. -0.00 min
 Lab File: VN058209.D
 Acq: 19 Sep 2019 17:25

Tgt Ion:113 Resp: 252418
 Ion Ratio Lower Upper
 113 100
 111 104.3 81.8 122.6
 192 18.3 14.5 21.7



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

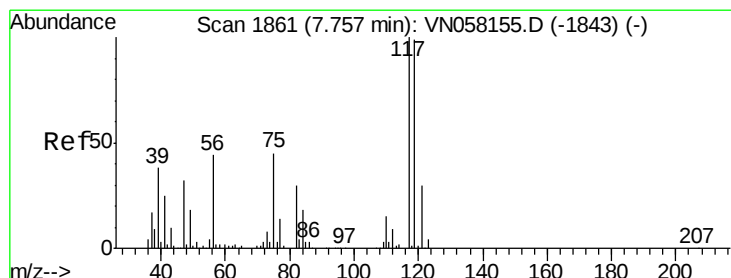
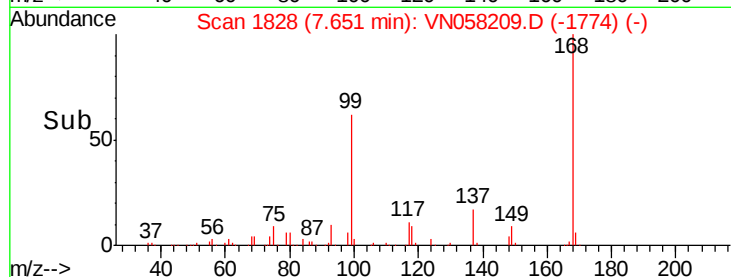
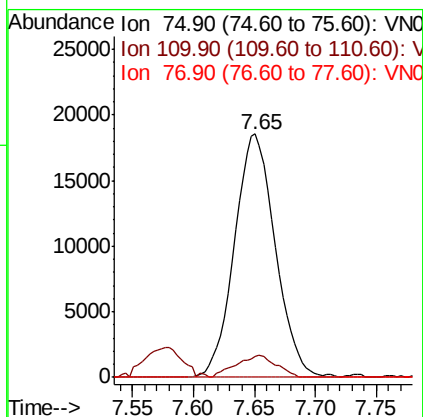
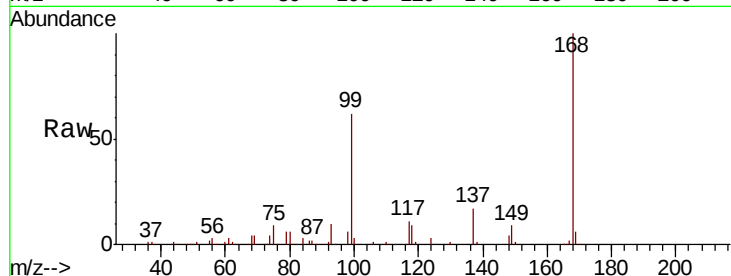




#36
 1,1-Dichloropropene
 Concen: 7.179 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN058209.D
 Acq: 19 Sep 2019 17:25

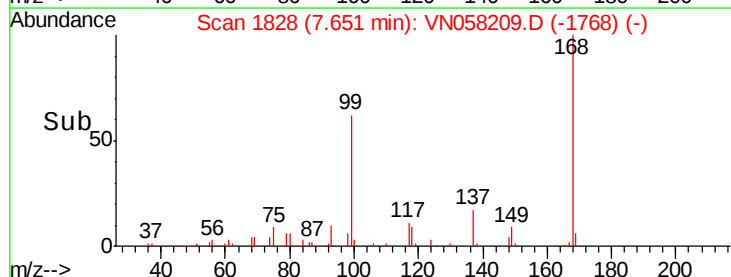
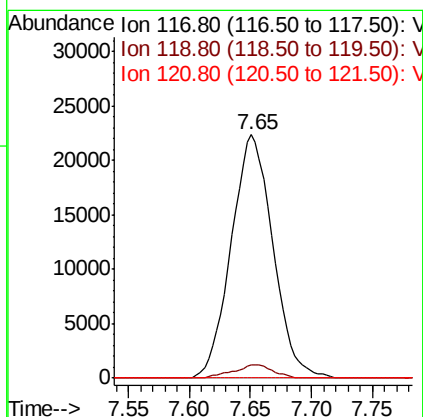
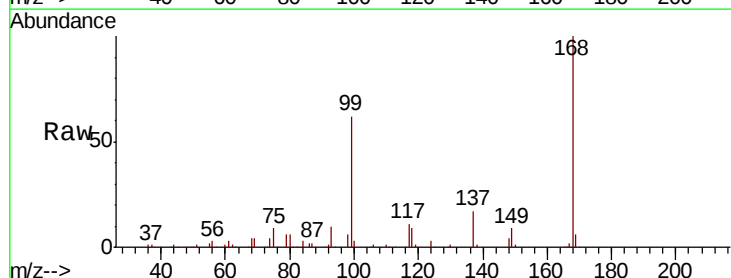
Instrument :
 MSVOA_N
 ClientSampleId :
 EB01-20190912

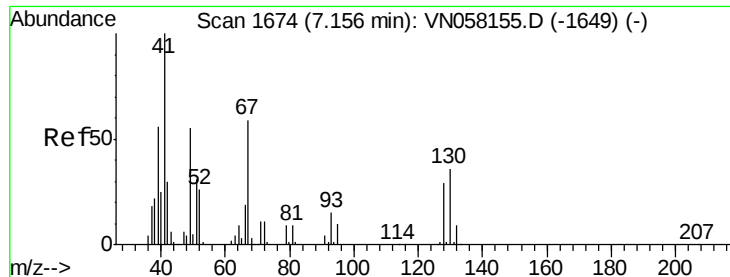
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.0	16.6	49.7#
77	0.0	24.3	36.5#



#38
 Carbon Tetrachloride
 Concen: 8.789 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN058209.D
 Acq: 19 Sep 2019 17:25

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.4	78.6	117.8#
121	0.0	24.1	36.1#

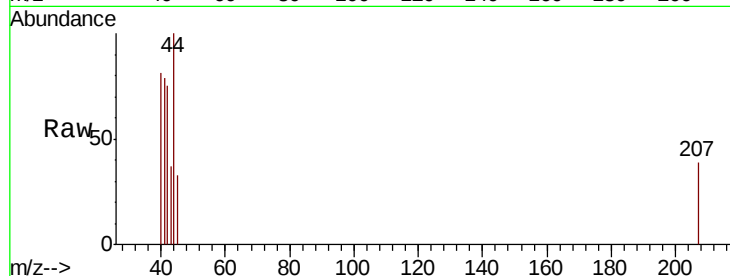




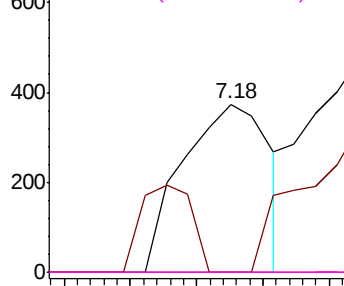
#41
Methacrylonitrile
Concen: 1.018 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. 0.02 min
Lab File: VN058209.D
Acq: 19 Sep 2019 17:25

Instrument :
MSVOA_N
ClientSampleId :
EB01-20190912

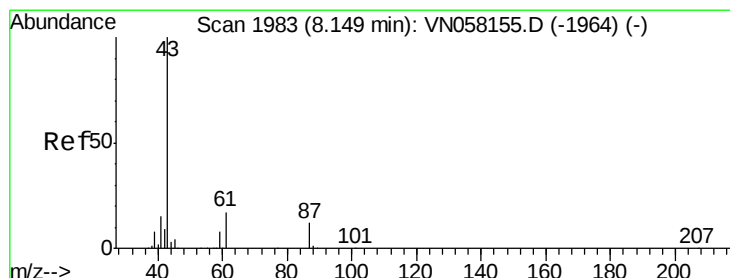
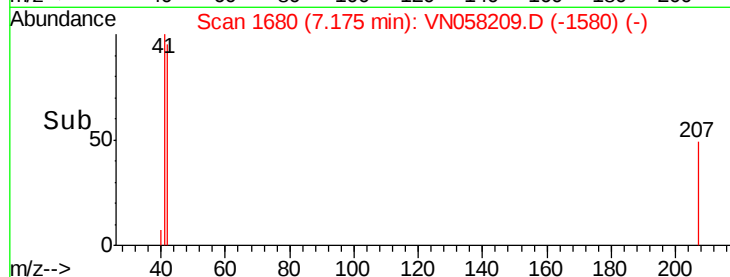
Tot Ion:	41	Resp:	342
Ion	Ratio	Lower	Upper
41	100		
39	30.4	0.0	0.0#
67	0.0	0.0	0.0
52	0.0	0.0	0.0



Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 39.00 (38.70 to 39.70): VNC
Ion 67.00 (66.70 to 67.70): VNC
Ion 52.00 (51.70 to 52.70): VNC

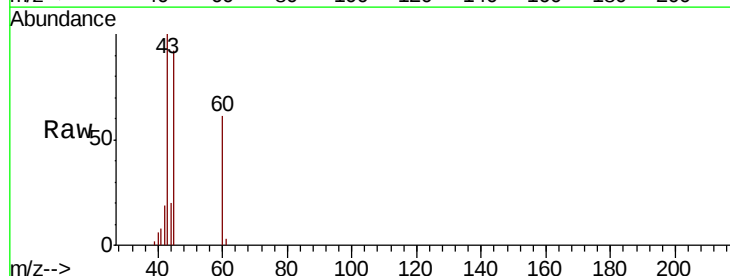


Time--> 7.15 7.16 7.17 7.18

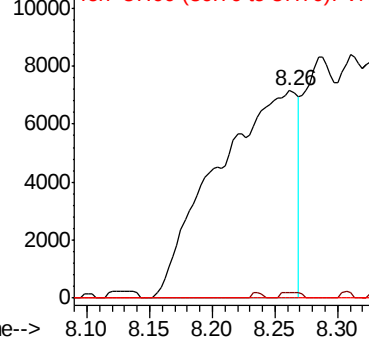


#43
Isopropyl Acetate
Concen: 2.733 ug/l
RT: 8.26 min Scan# 2018
Delta R.T. 0.11 min
Lab File: VN058209.D
Acq: 19 Sep 2019 17:25

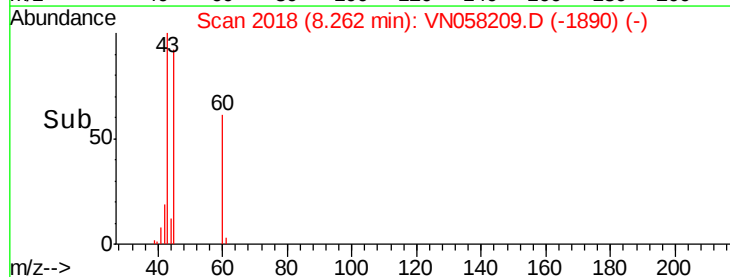
Tgt Ion:	43	Resp:	31733
Ion	Ratio	Lower	Upper
43	100		
61	0.0	19.7	29.5#
87	0.0	9.4	14.2#

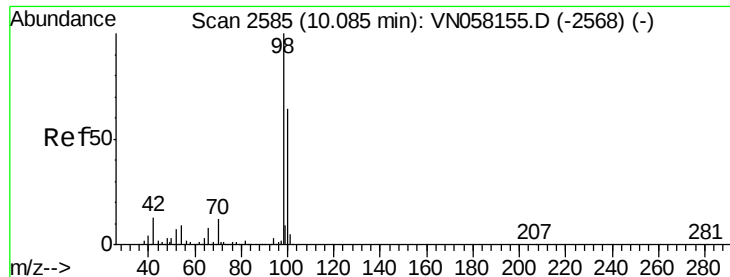


Abundance Ion 43.00 (42.70 to 43.70): VNC
Ion 61.00 (60.70 to 61.70): VNC
Ion 87.00 (86.70 to 87.70): VNC



Time--> 8.10 8.15 8.20 8.25 8.30





#50

Toluene-d8

Concen: 52.723 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058209.D

Acq: 19 Sep 2019 17:25

Instrument :

MSVOA_N

ClientSampleId :

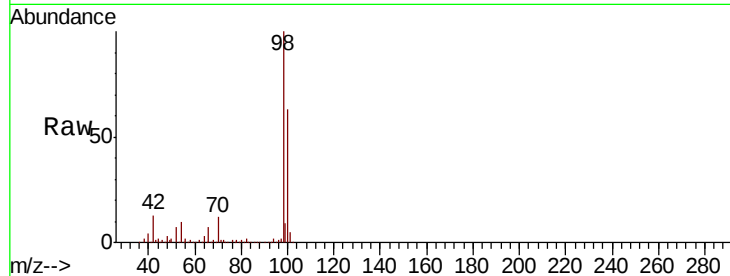
EB01-20190912

Tot Ion: 98 Resp: 1037572

Ion Ratio Lower Upper

98 100

100 63.7 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

600000

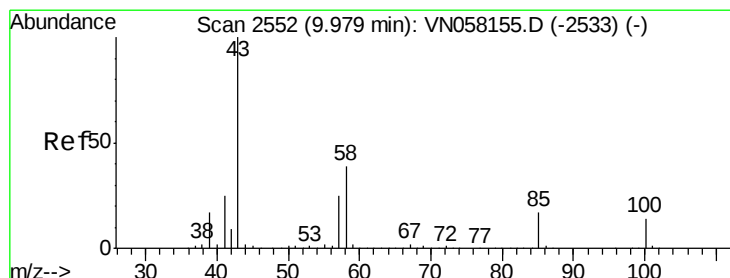
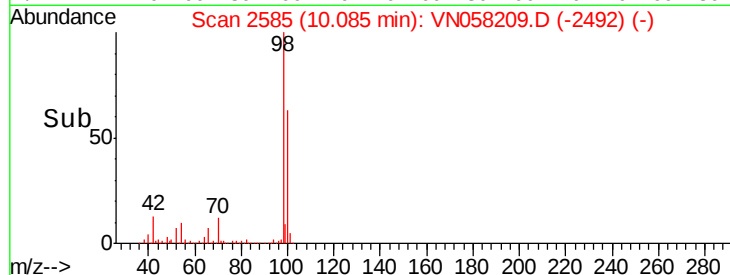
400000

200000

0

10.00 10.10 10.20

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.221 ug/l

RT: 9.97 min Scan# 2550

Delta R.T. -0.01 min

Lab File: VN058209.D

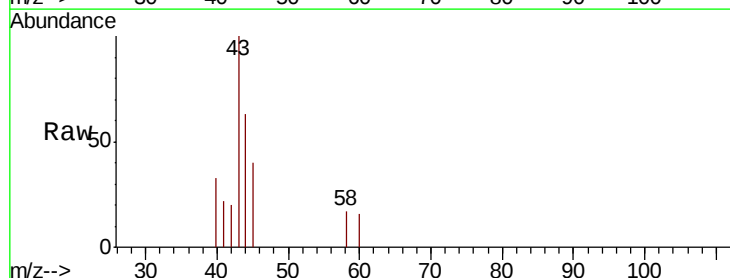
Acq: 19 Sep 2019 17:25

Tgt Ion: 43 Resp: 1365

Ion Ratio Lower Upper

43 100

58 20.4 30.2 45.4#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

1200

1000

800

600

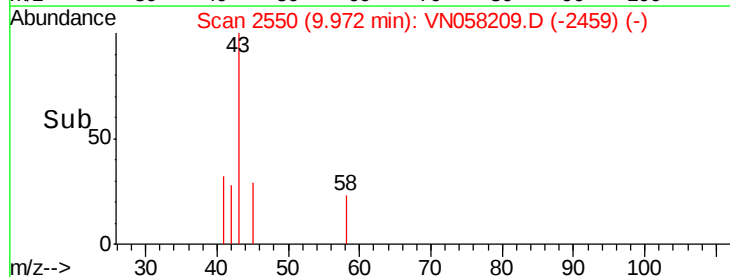
400

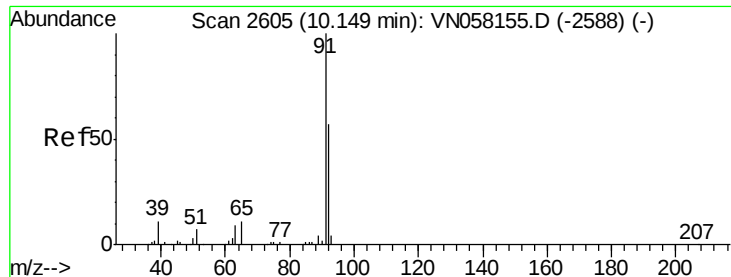
200

0

9.95 9.97 10.00

Time-->





#52

Toluene

Concen: 1.321 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. 0.00 min

Lab File: VN058209.D

Acq: 19 Sep 2019 17:25

Instrument :

MSVOA_N

ClientSampleId :

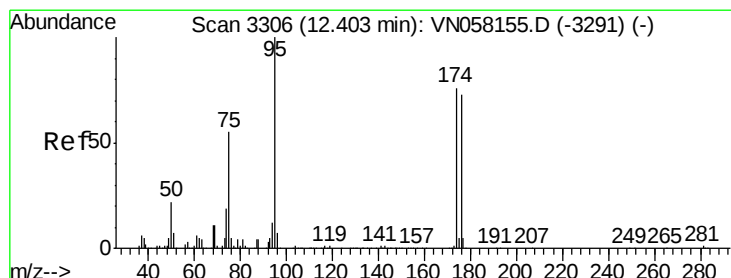
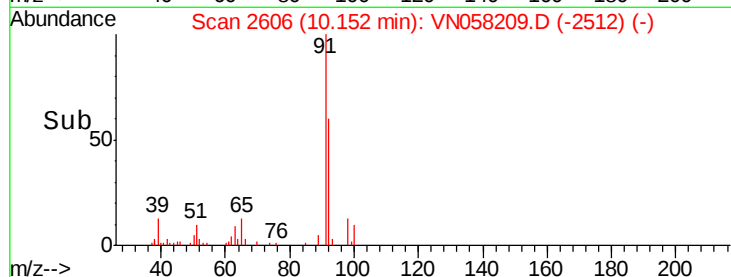
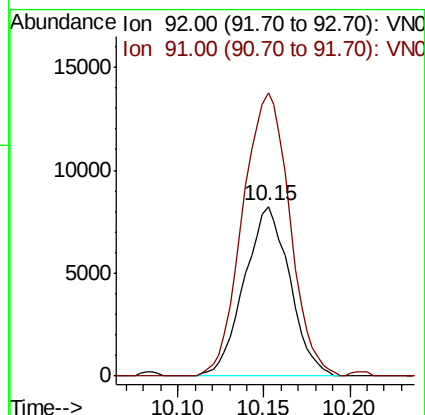
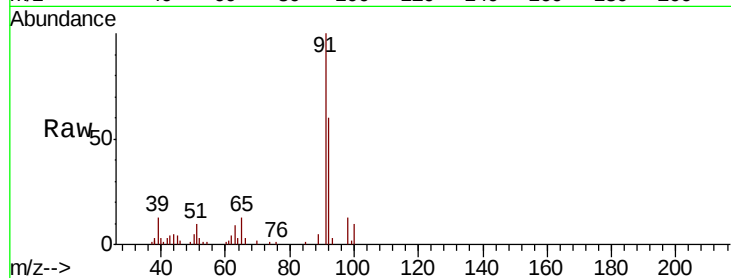
EB01-20190912

Tot Ion: 92 Resp: 15154

Ion Ratio Lower Upper

92 100

91 173.1 140.2 210.2



#62

4-Bromofluorobenzene

Concen: 45.446 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.00 min

Lab File: VN058209.D

Acq: 19 Sep 2019 17:25

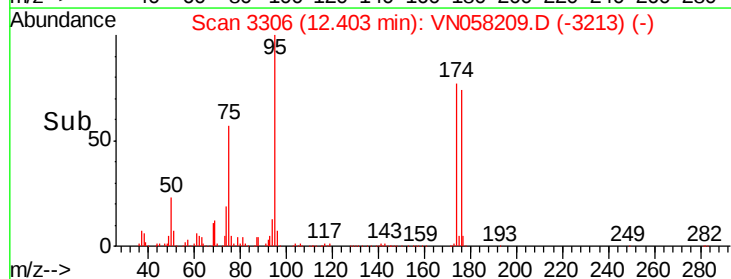
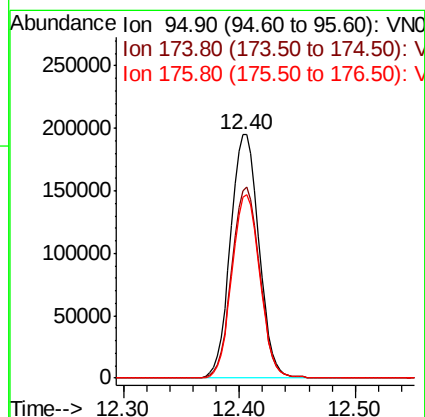
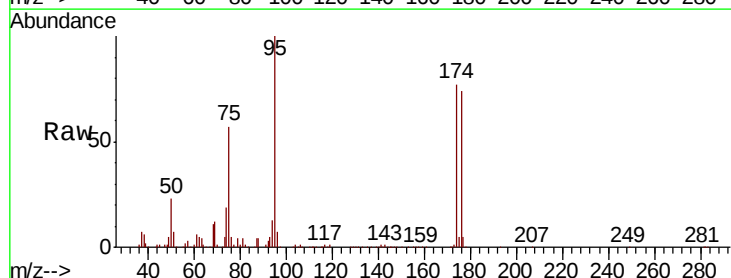
Tgt Ion: 95 Resp: 332217

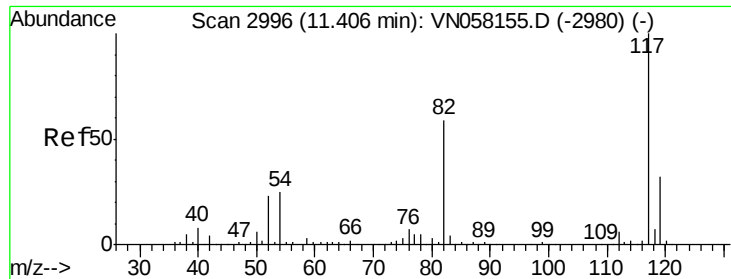
Ion Ratio Lower Upper

95 100

174 77.2 0.0 152.2

176 74.0 0.0 148.0

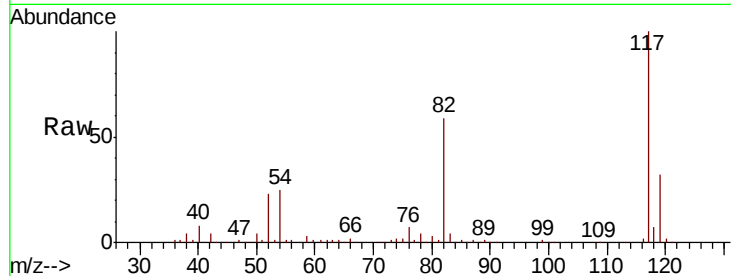




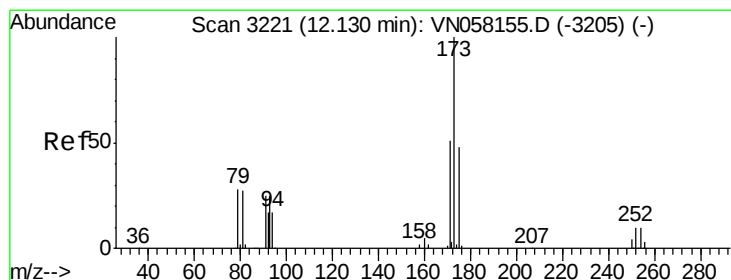
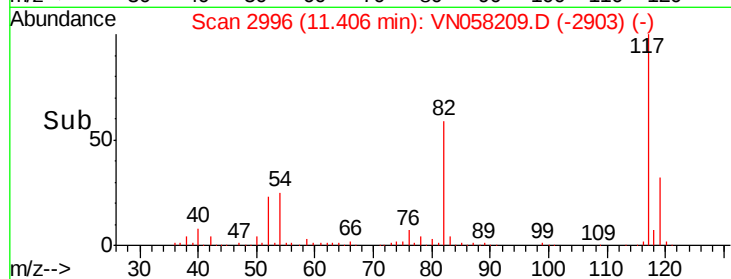
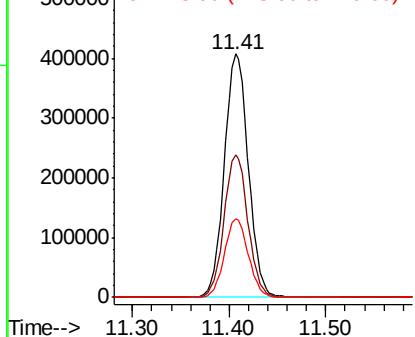
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN058209.D
Acq: 19 Sep 2019 17:25

Instrument :
MSVOA_N
ClientSampleId :
EB01-20190912

Tot Ion:117 Resp: 701839
Ion Ratio Lower Upper
117 100
82 58.6 46.9 70.3
119 32.3 25.3 37.9

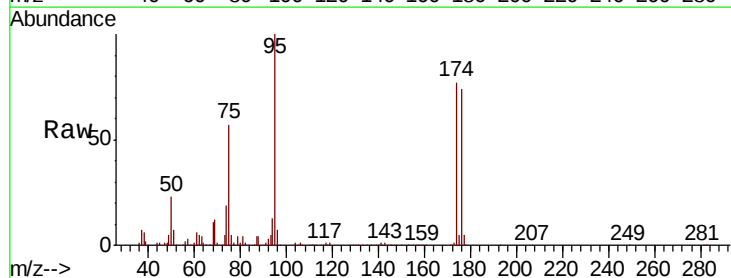


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN0
Ion 118.90 (118.60 to 119.60): V

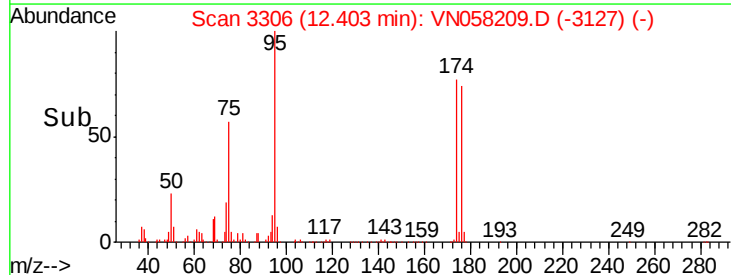
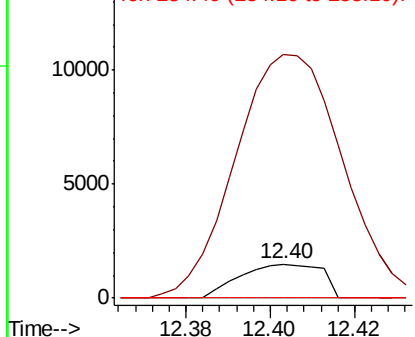


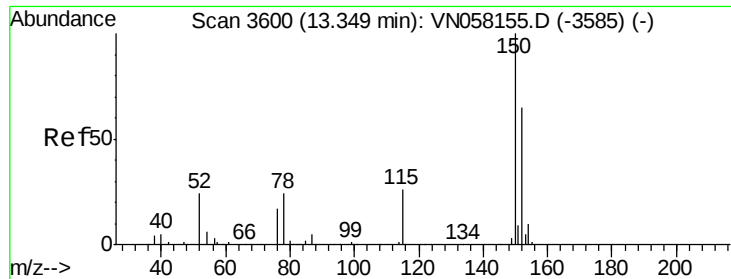
#71
Bromoform
Concen: 4.161 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.27 min
Lab File: VN058209.D
Acq: 19 Sep 2019 17:25

Tgt Ion:173 Resp: 2022
Ion Ratio Lower Upper
173 100
175 817.1 24.2 72.6#
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: 13.35 min Scan# 3600

Delta R.T. -0.00 min

Lab File: VN058209.D

Acq: 19 Sep 2019 17:25

Instrument :

MSVOA_N

ClientSampleId :

EB01-20190912

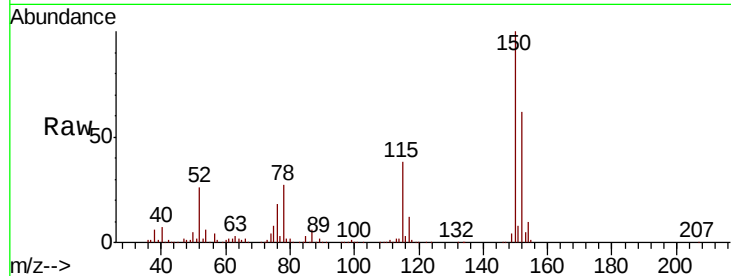
Tot Ion:152 Resp: 289735

Ion Ratio Lower Upper

152 100

115 60.8 30.1 90.3

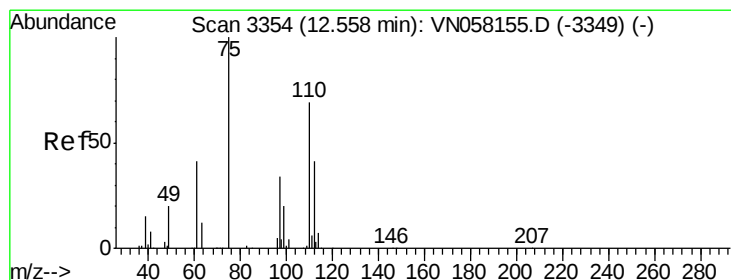
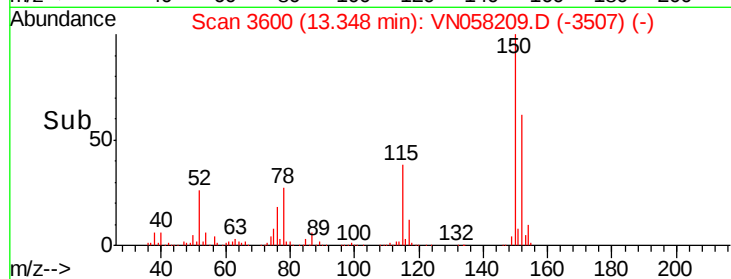
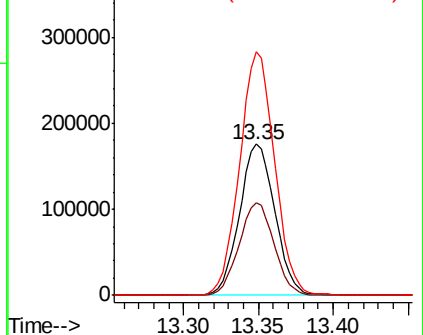
150 159.4 0.0 346.4



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: 35.422 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058209.D

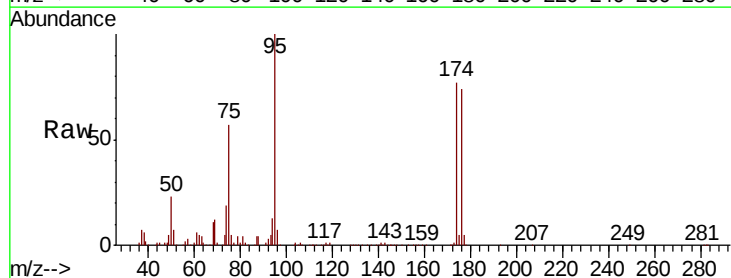
Acq: 19 Sep 2019 17:25

Tgt Ion: 75 Resp: 183673

Ion Ratio Lower Upper

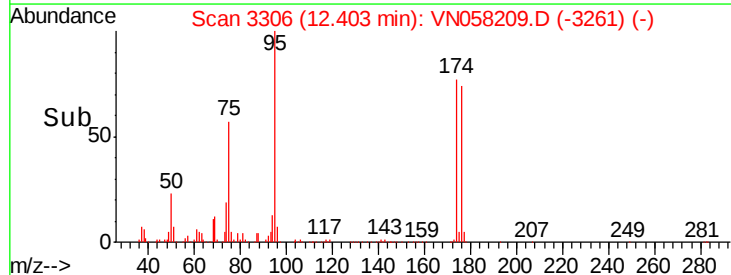
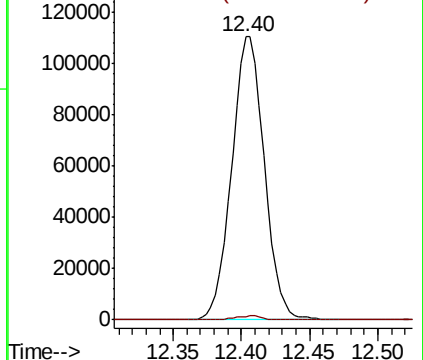
75 100

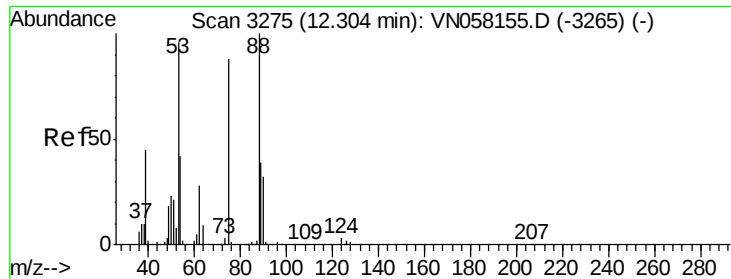
77 1.2 0.0 0.0#



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: 99.017 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058209.D

Acq: 19 Sep 2019 17:25

Instrument :

MSVOA_N

ClientSampleId :

EB01-20190912

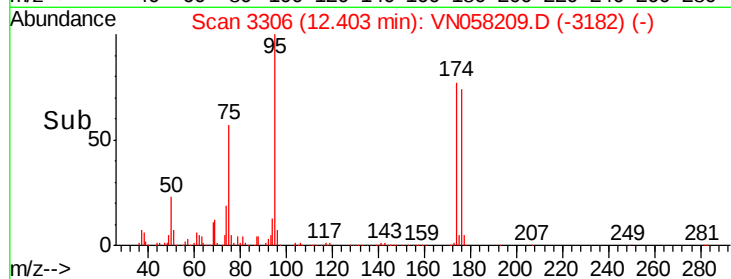
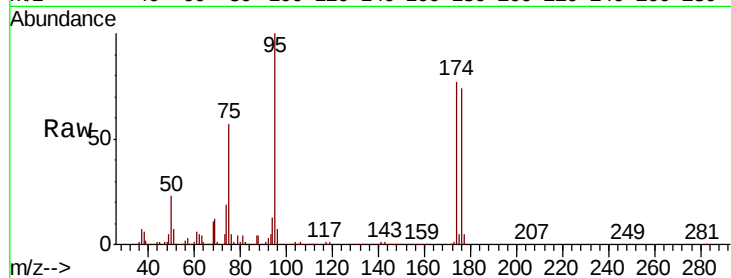
Tot Ion: 75 Resp: 183673

Ion Ratio Lower Upper

75 100

53 0.0 90.1 135.1#

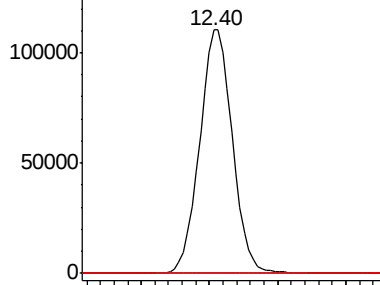
89 0.1 36.2 54.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0

150000 Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



Time-->