

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN040319\
 Data File : VN054915.D
 Acq On : 3 Apr 2019 10:17
 Operator : JC/SP
 Sample : VN0403MBL01
 Misc : 5.00µ/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 04 01:09:38 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032919W.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 30 00:48:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	481536	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	795916	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	667995	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	218495	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	314230	48.41	ug/l	0.00
Spiked Amount			Recovery	=	96.82%	
35) Dibromofluoromethane	7.59	113	251055	47.31	ug/l	0.00
Spiked Amount			Recovery	=	94.62%	
50) Toluene-d8	10.09	98	951989	48.26	ug/l	0.00
Spiked Amount			Recovery	=	96.52%	
62) 4-Bromofluorobenzene	12.40	95	277871	42.35	ug/l	0.00
Spiked Amount			Recovery	=	84.70%	

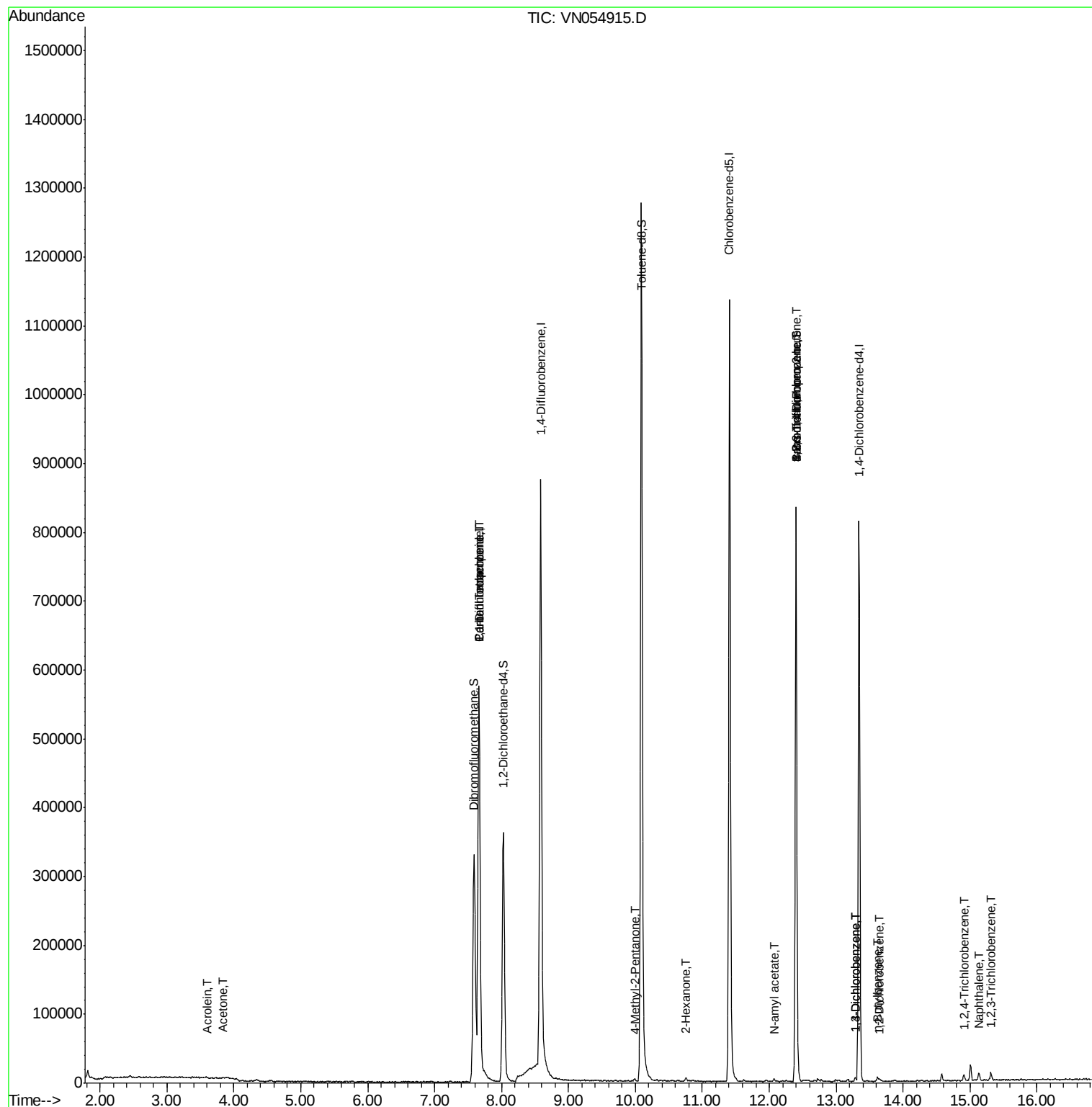
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	314	Below Cal		90
13) Acrolein	3.61	56	315	1.042 ug/l #		41
16) Acetone	3.84	43	1233	0.797 ug/l #		38
18) Methyl Acetate	4.33	43	3003	Below Cal #		83
31) Cyclohexane	7.66	56	10294	Below Cal #		1
36) 1,1-Dichloropropene	7.66	75	36688	4.947 ug/l #		48
38) Carbon Tetrachloride	7.67	117	44850	6.226 ug/l #		16
51) 4-Methyl-2-Pentanone	9.98	43	1272	0.256 ug/l #		70
59) 2-Hexanone	10.76	43	4309	1.355 ug/l		84
71) Bromoform	12.40	173	2670	0.931 ug/l #		1
74) N-amyl acetate	12.07	43	2689	0.483 ug/l #		87
75) 1,1,2,2-Tetrachloroethane	12.51	83	512	Below Cal #		39
76) 1,2,3-Trichloropropane	12.40	75	145876	38.431 ug/l #		100
81) trans-1,4-Dichloro-2-buten	12.40	75	145876	149.488 ug/l #		11
83) tert-Butylbenzene	12.99	119	1574	Below Cal		98
87) 1,3-Dichlorobenzene	13.28	146	1519	0.210 ug/l		90
88) 1,4-Dichlorobenzene	13.28	146	1519	0.215 ug/l		91
89) n-Butylbenzene	13.61	91	3878	0.339 ug/l		92
91) 1,2-Dichlorobenzene	13.65	146	1736	0.238 ug/l		92
93) 1,2,4-Trichlorobenzene	14.91	180	2864	0.816 ug/l		96
95) Naphthalene	15.13	128	9376	1.191 ug/l #		94
96) 1,2,3-Trichlorobenzene	15.32	180	3695	1.042 ug/l		97

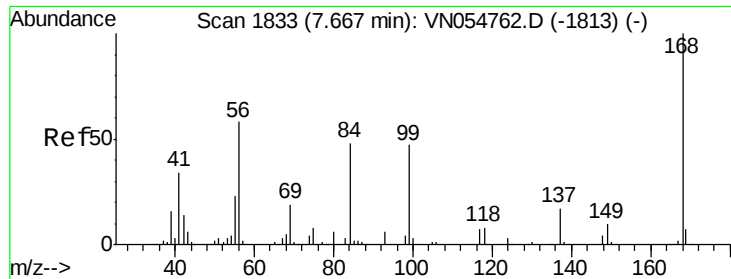
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN040319\
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Acq On : 3 Apr 2019 10:17
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Sample : VN0403MBL01
Misc : 5.00µL/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Apr 04 01:09:38 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N032919W.M
Quant Title : SW846 8260
QLast Update : Sat Mar 30 00:48:18 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN054915.D

Acq: 3 Apr 2019 10:17

Instrument :

MSVOA_N

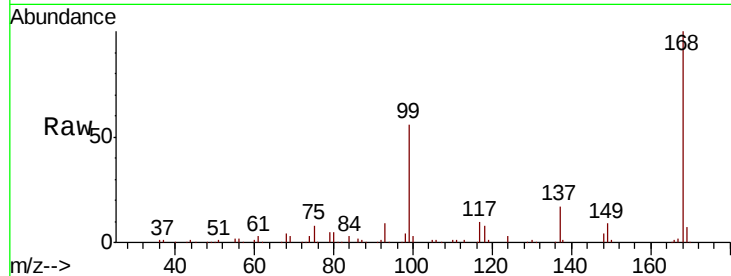
ClientSampled :

Tot Ion:168 Resp: 481536

Ion Ratio Lower Upper

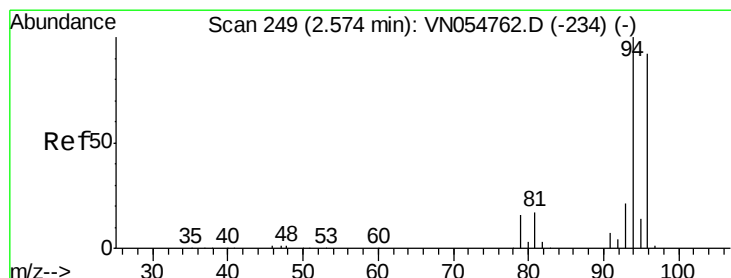
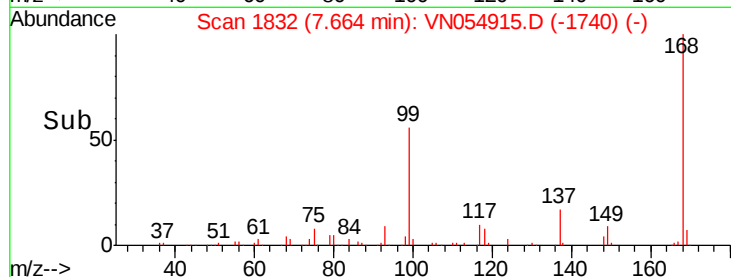
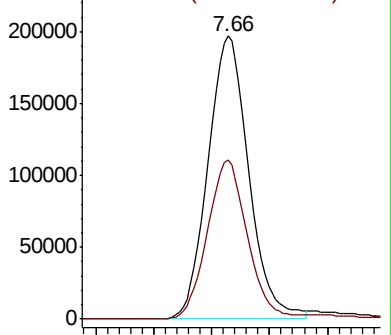
168 100

99 56.1 37.1 55.7#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 249

Delta R.T. 0.00 min

Lab File: VN054915.D

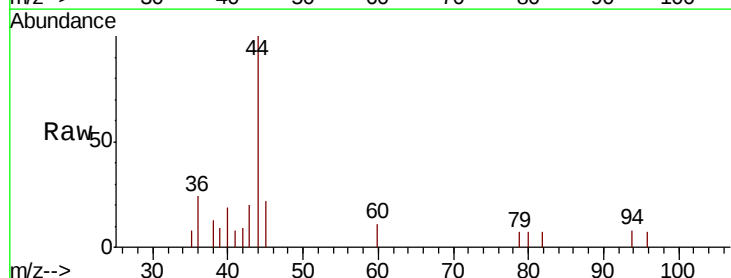
Acq: 3 Apr 2019 10:17

Tgt Ion: 94 Resp: 314

Ion Ratio Lower Upper

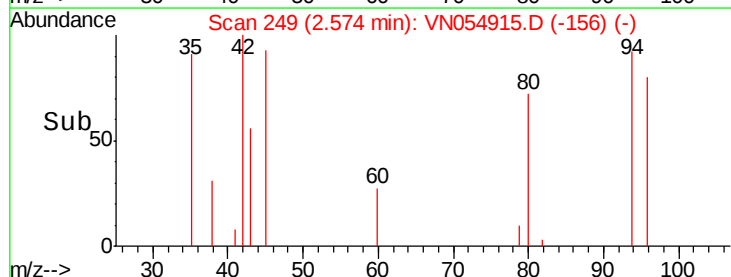
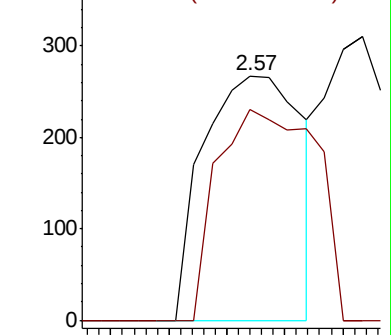
94 100

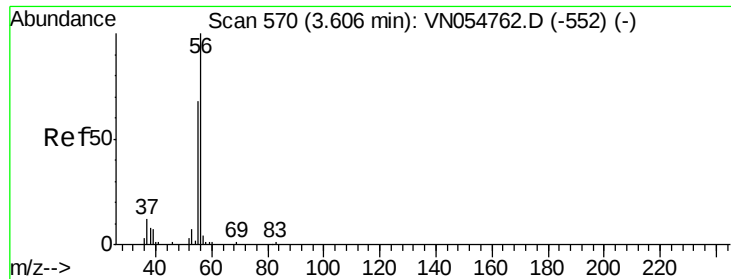
96 86.1 77.0 115.4



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

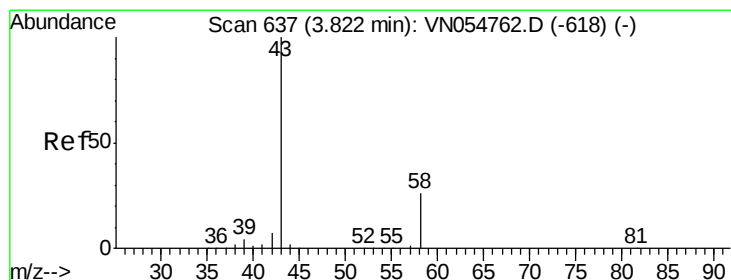
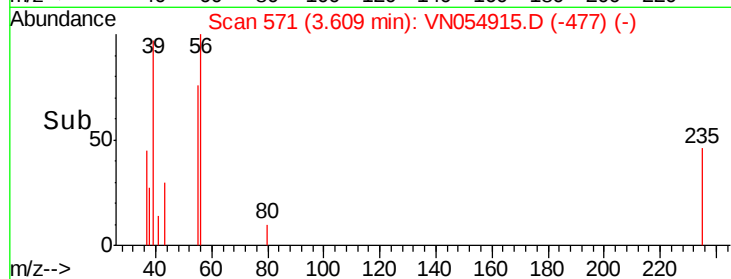
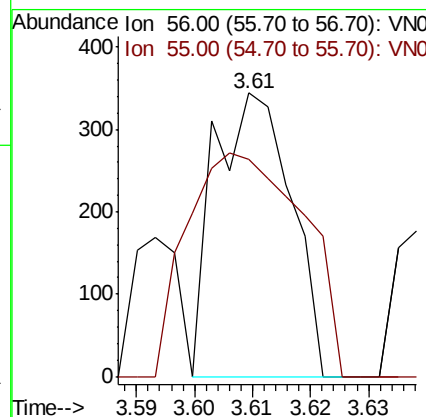
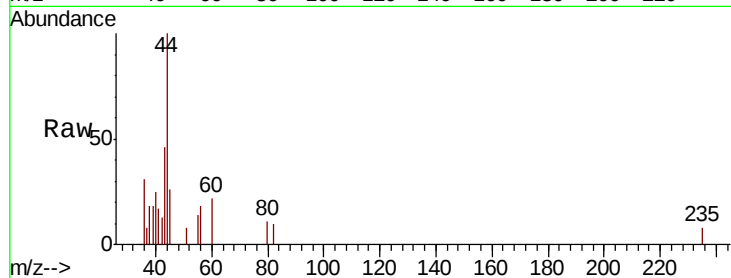




#13
Acrolein
Concen: 1.042 ug/l
RT: 3.61 min Scan# 571
Delta R.T. 0.00 min
Lab File: VN054915.D
Acq: 3 Apr 2019 10:17

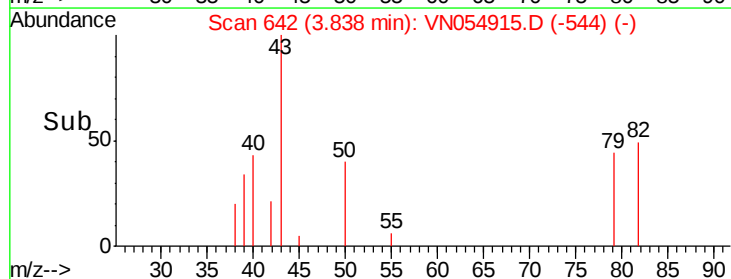
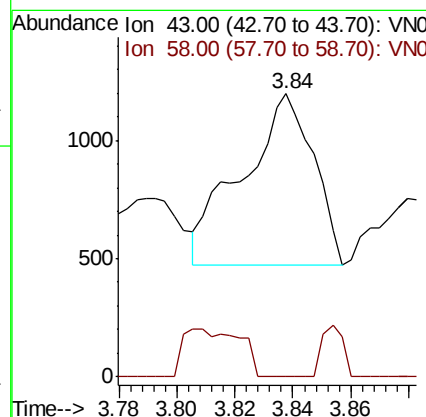
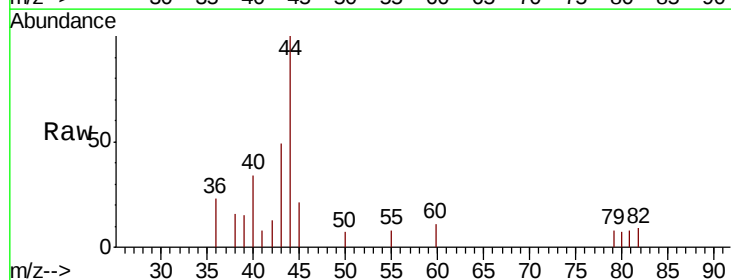
Instrument :
MSVOA_N
ClientSampleId :

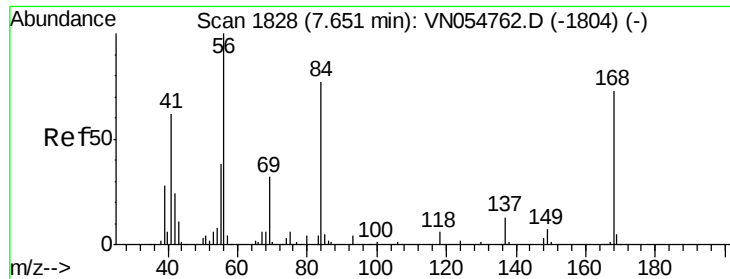
Tot Ion: 56 Resp: 315
Ion Ratio Lower Upper
56 100
55 120.0 56.7 85.1#



#16
Acetone
Concen: 0.797 ug/l
RT: 3.84 min Scan# 642
Delta R.T. 0.02 min
Lab File: VN054915.D
Acq: 3 Apr 2019 10:17

Tgt Ion: 43 Resp: 1233
Ion Ratio Lower Upper
43 100
58 0.0 29.9 44.9#

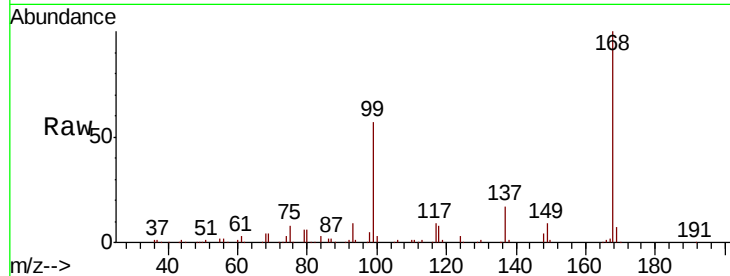




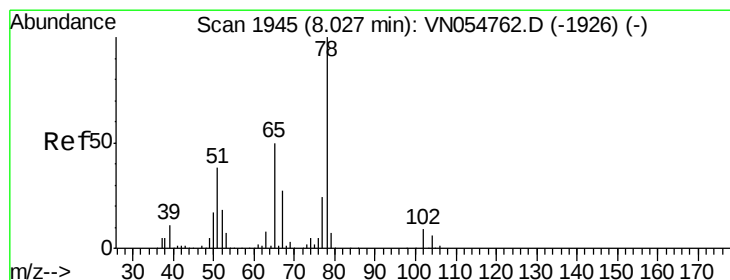
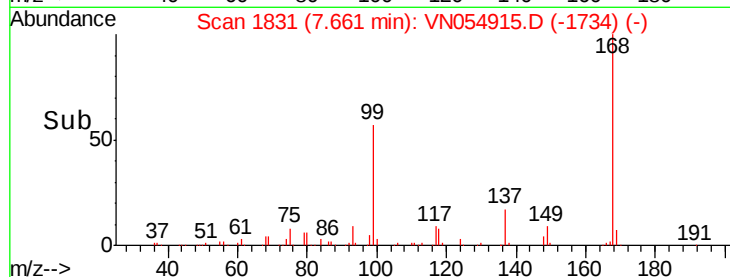
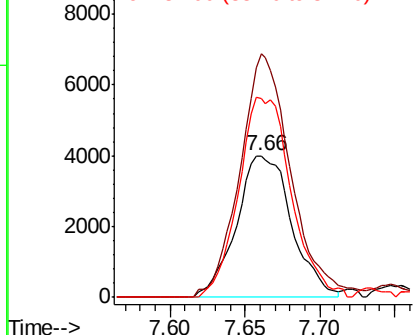
#31
Cyclohexane
Concen: Below Cal
RT: 7.66 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN054915.D
Acq: 3 Apr 2019 10:17

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 10294
Ion Ratio Lower Upper
56 100
69 171.8 27.8 41.6#
84 139.9 74.6 111.8#

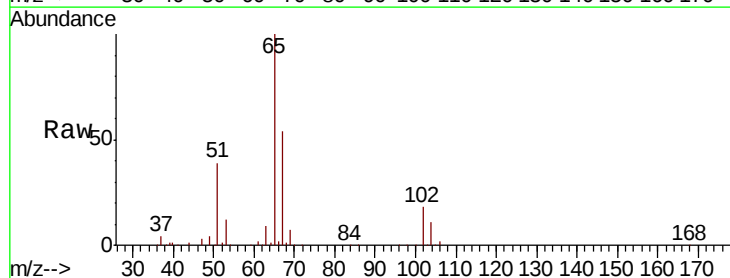


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

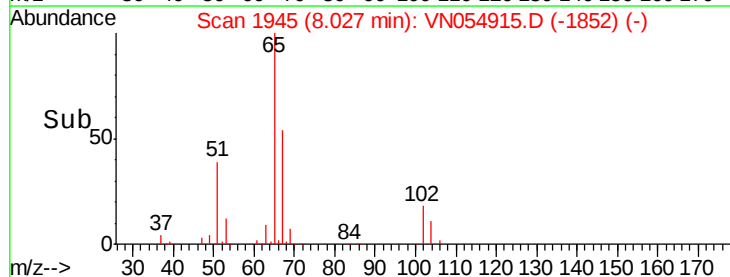
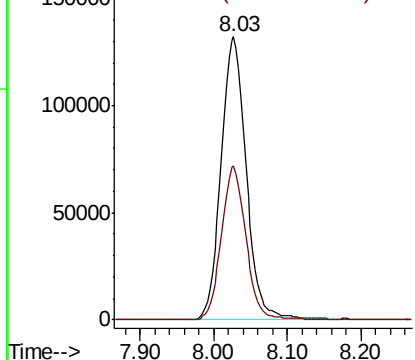


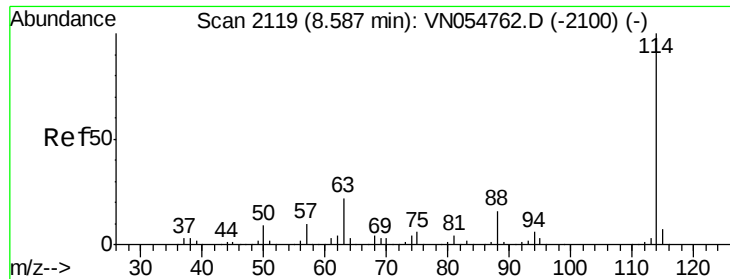
#33
1,2-Dichloroethane-d4
Concen: 48.408 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN054915.D
Acq: 3 Apr 2019 10:17

Tgt Ion: 65 Resp: 314230
Ion Ratio Lower Upper
65 100
67 53.1 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

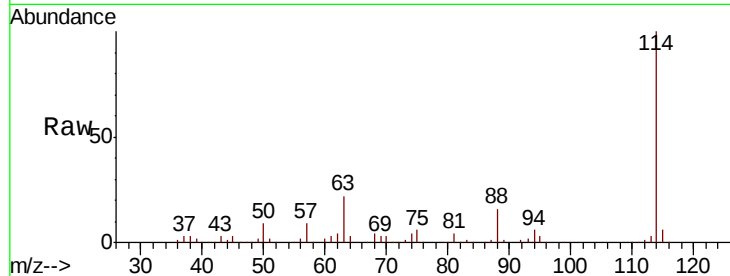




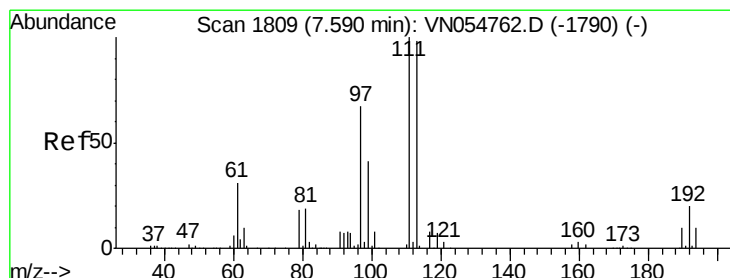
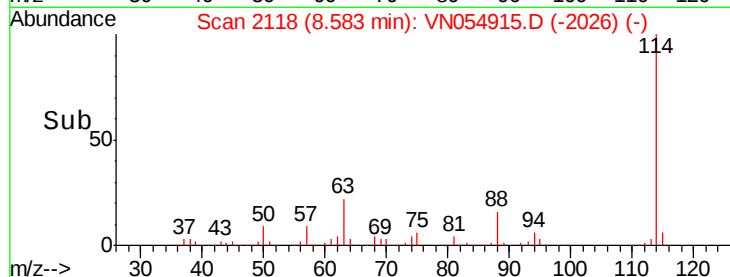
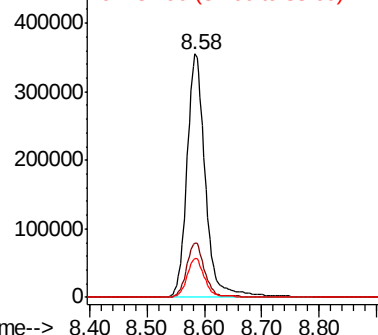
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.58 min Scan# 2119
Delta R.T. -0.00 min
Lab File: VN054915.D
Acq: 3 Apr 2019 10:17

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:114 Resp: 795916
Ion Ratio Lower Upper
114 100
63 22.4 0.0 35.2
88 15.9 0.0 30.2

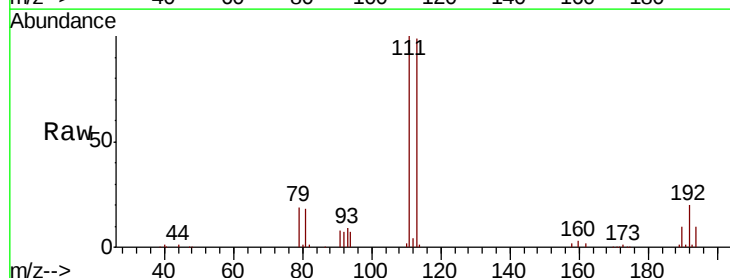


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

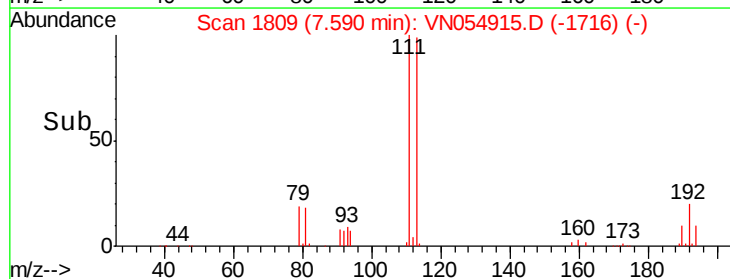
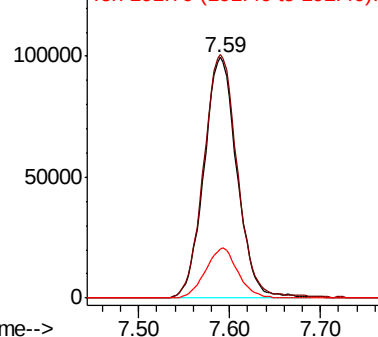


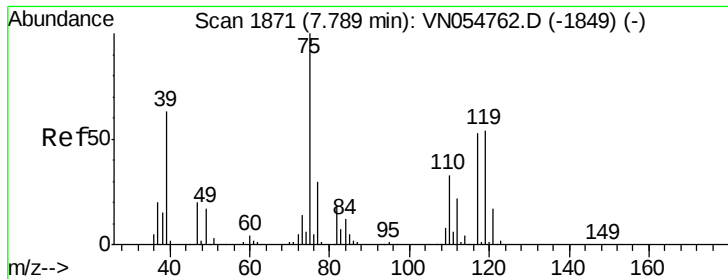
#35
Dibromofluoromethane
Concen: 47.313 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. -0.00 min
Lab File: VN054915.D
Acq: 3 Apr 2019 10:17

Tgt Ion:113 Resp: 251055
Ion Ratio Lower Upper
113 100
111 103.3 82.2 123.4
192 20.5 19.2 28.8



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

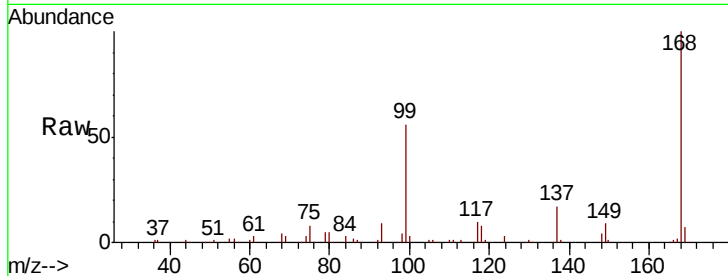




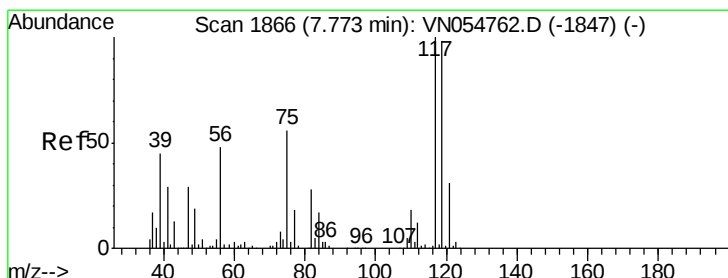
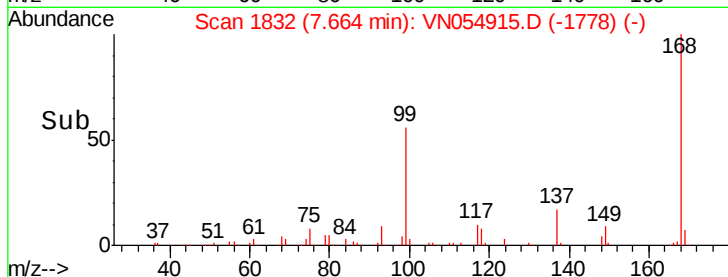
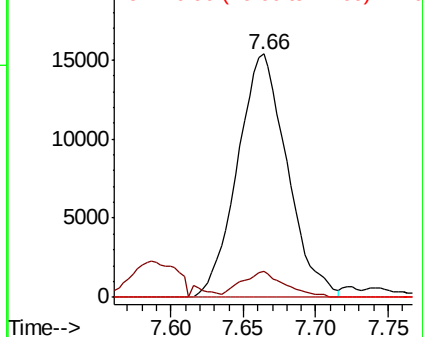
#36
 1,1-Dichloropropene
 Concen: 4.947 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN054915.D
 Acq: 3 Apr 2019 10:17

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 75 Resp: 36688
 Ion Ratio Lower Upper
 75 100
 110 9.3 19.1 57.5#
 77 0.0 25.0 37.4#

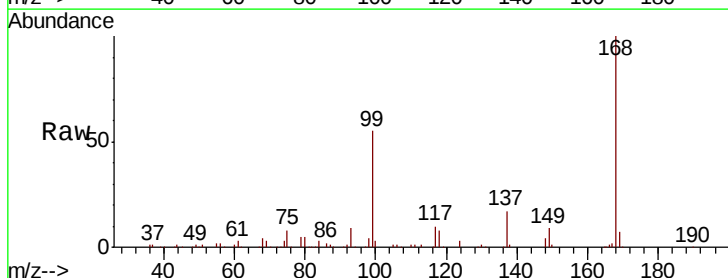


Abundance Ion 74.90 (74.60 to 75.60): VN054762.D (-1849) (-)
 Ion 109.90 (109.60 to 110.60): VN054762.D (-1849) (-)
 Ion 76.90 (76.60 to 77.60): VN054762.D (-1849) (-)

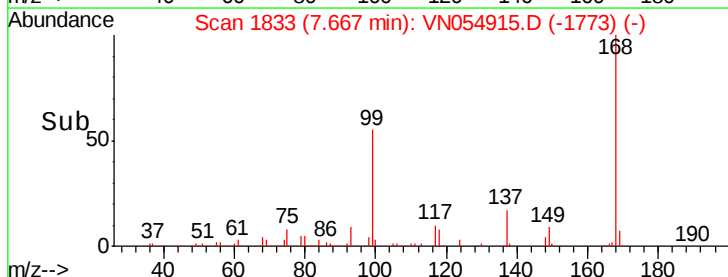
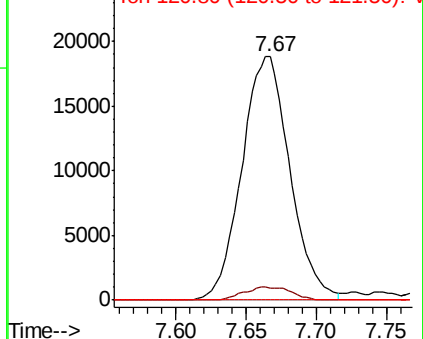


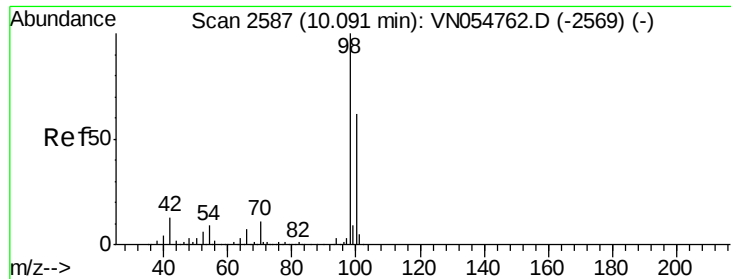
#38
 Carbon Tetrachloride
 Concen: 6.226 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN054915.D
 Acq: 3 Apr 2019 10:17

Tgt Ion: 117 Resp: 44850
 Ion Ratio Lower Upper
 117 100
 119 4.7 76.3 114.5#
 121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): VN054762.D (-1847) (-)
 Ion 118.80 (118.50 to 119.50): VN054762.D (-1847) (-)
 Ion 120.80 (120.50 to 121.50): VN054762.D (-1847) (-)





#50

Toluene-d8

Concen: 48.257 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN054915.D

Acq: 3 Apr 2019 10:17

Instrument :

MSVOA_N

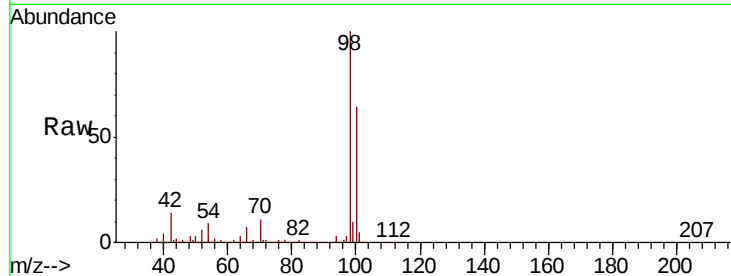
ClientSampled :

Tot Ion: 98 Resp: 951989

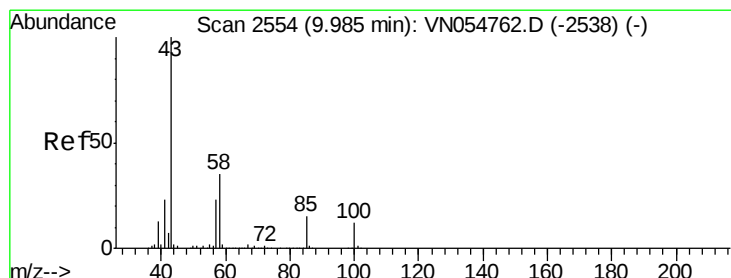
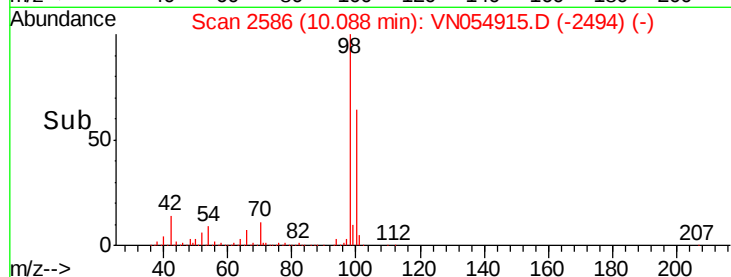
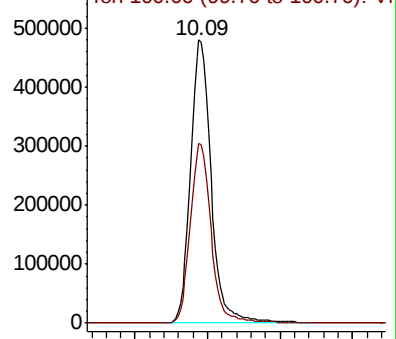
Ion Ratio Lower Upper

98 100

100 64.1 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN054762.D (-2569) (-)



#51

4-Methyl-2-Pentanone

Concen: 0.256 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN054915.D

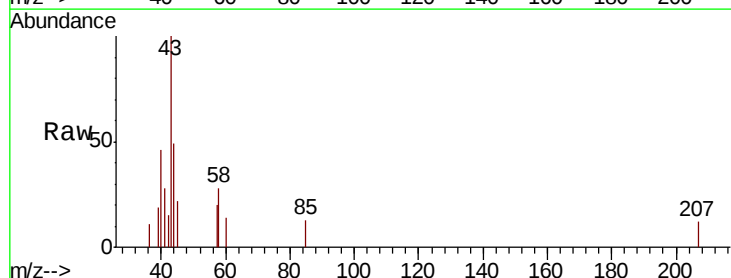
Acq: 3 Apr 2019 10:17

Tgt Ion: 43 Resp: 1272

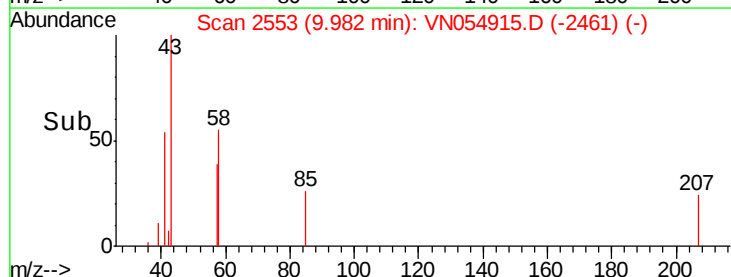
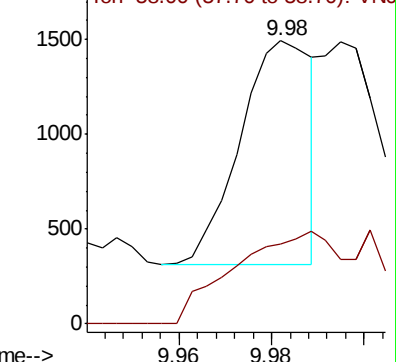
Ion Ratio Lower Upper

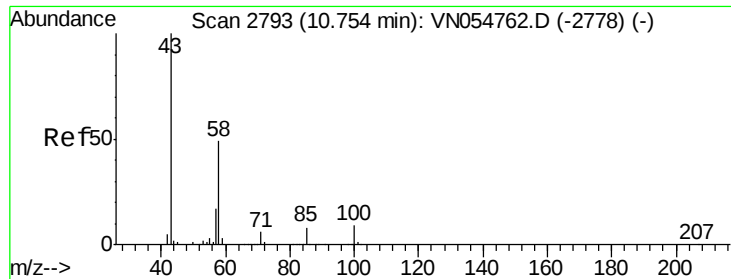
43 100

58 58.2 31.8 47.6#



Abundance Ion 43.00 (42.70 to 43.70): VN054762.D (-2538) (-)





#59

2-Hexanone

Concen: 1.355 ug/l

RT: 10.76 min Scan# 2794

Delta R.T. 0.00 min

Lab File: VN054915.D

Acq: 3 Apr 2019 10:17

Instrument :

MSVOA_N

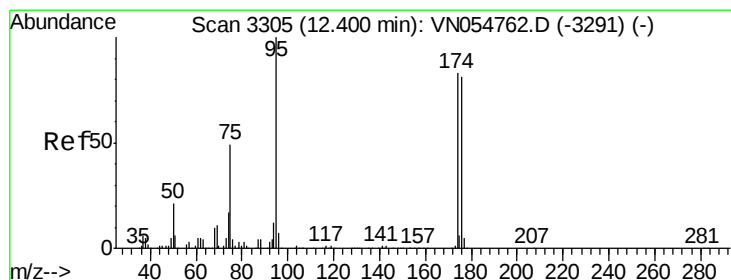
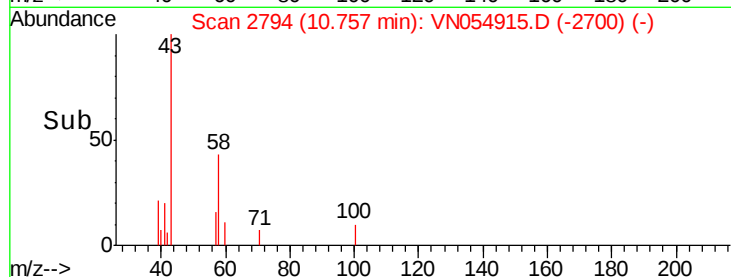
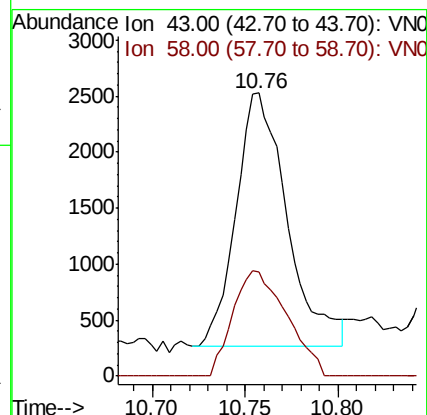
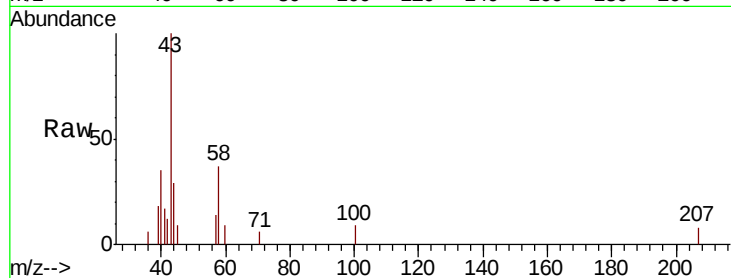
ClientSampleId :

Tot Ion: 43 Resp: 4309

Ion Ratio Lower Upper

43 100

58 44.0 28.0 83.9



#62

4-Bromofluorobenzene

Concen: 42.352 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN054915.D

Acq: 3 Apr 2019 10:17

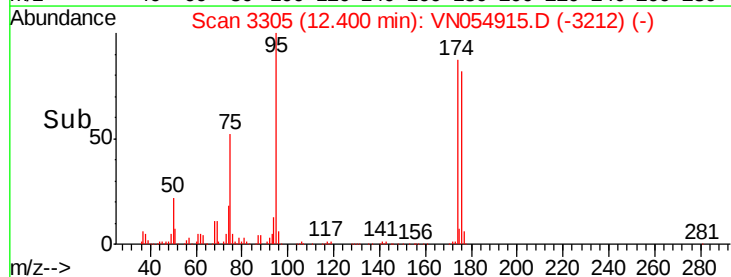
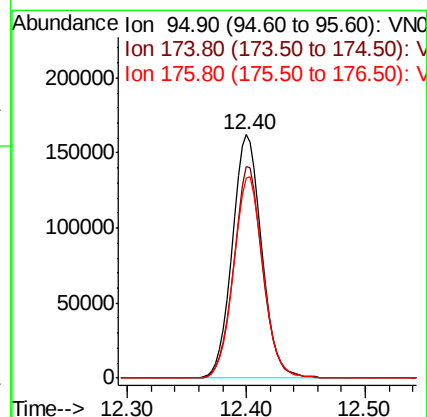
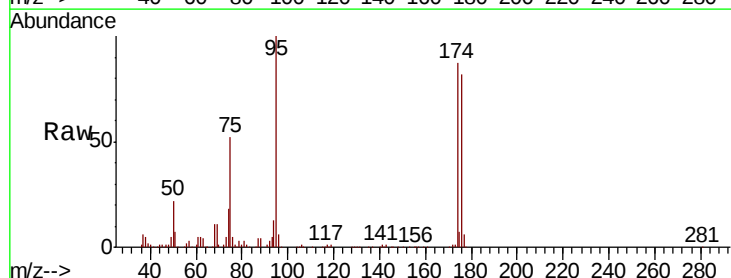
Tgt Ion: 95 Resp: 277871

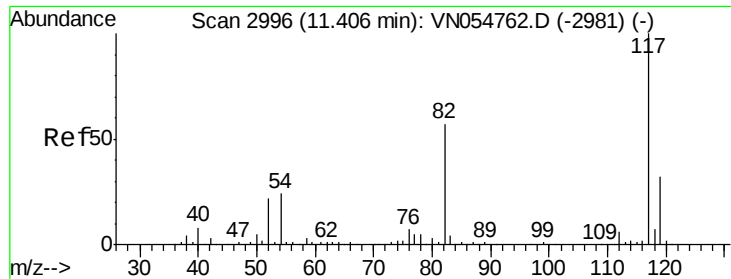
Ion Ratio Lower Upper

95 100

174 85.3 0.0 191.0

176 83.3 0.0 187.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN054915.D

Acq: 3 Apr 2019 10:17

Instrument :

MSVOA_N

ClientSampleId :

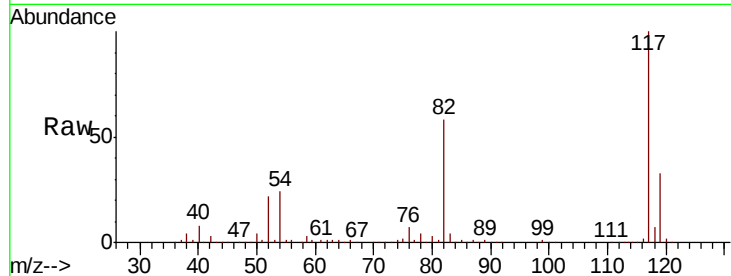
Tot Ion:117 Resp: 667995

Ion Ratio Lower Upper

117 100

82 57.7 40.0 60.0

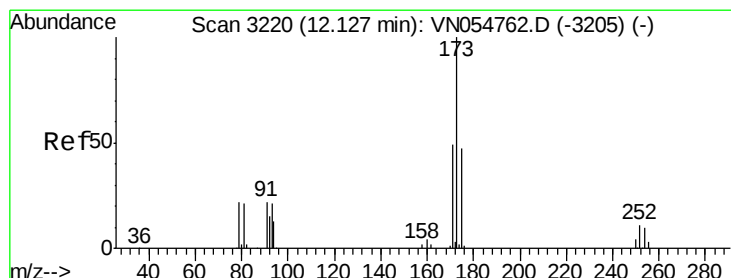
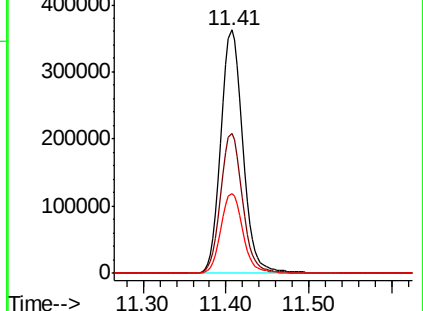
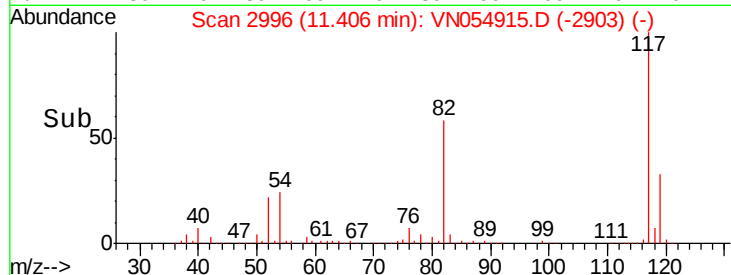
119 32.8 25.8 38.6



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: 0.931 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN054915.D

Acq: 3 Apr 2019 10:17

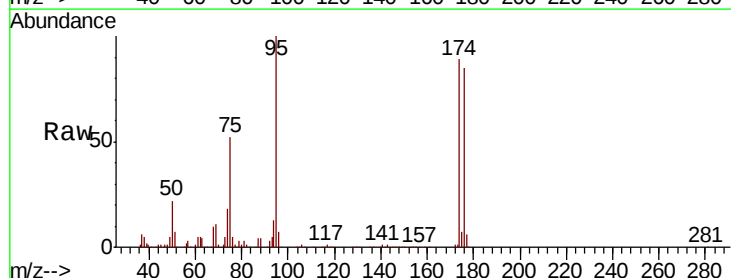
Tgt Ion:173 Resp: 2670

Ion Ratio Lower Upper

173 100

175 596.4 24.4 73.2#

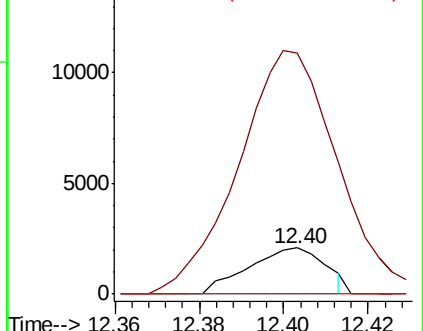
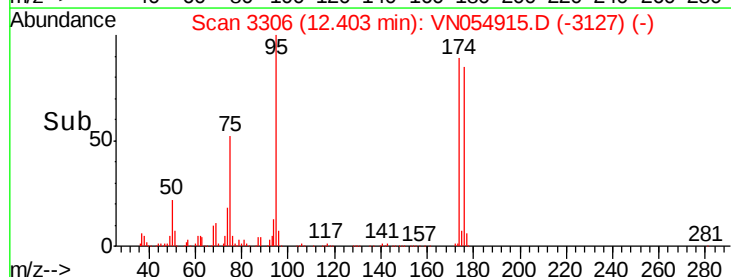
254 0.0 0.1 0.1#

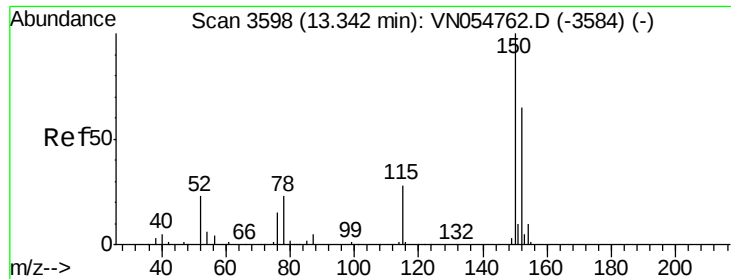


Abundance Ion 172.70 (172.40 to 173.40): V

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: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN054915.D

Acq: 3 Apr 2019 10:17

Instrument :

MSVOA_N

ClientSampleId :

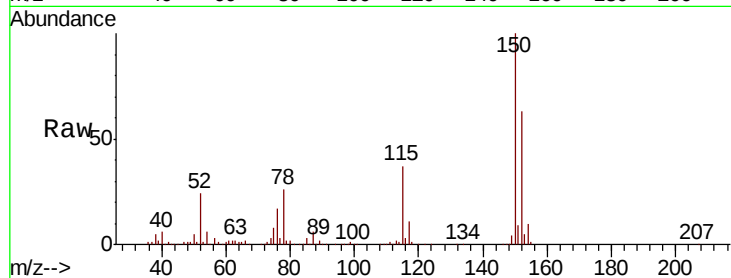
Tot Ion:152 Resp: 218495

Ion Ratio Lower Upper

152 100

115 57.3 27.2 81.6

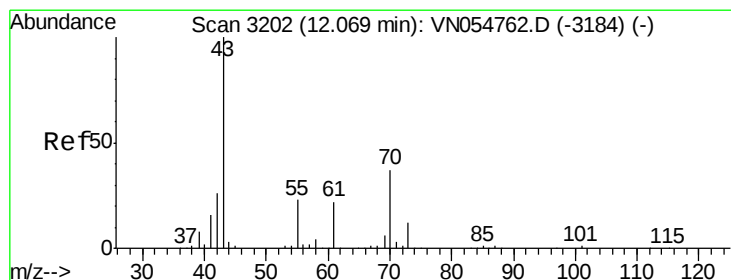
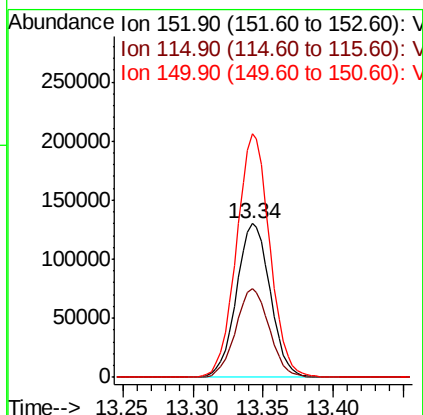
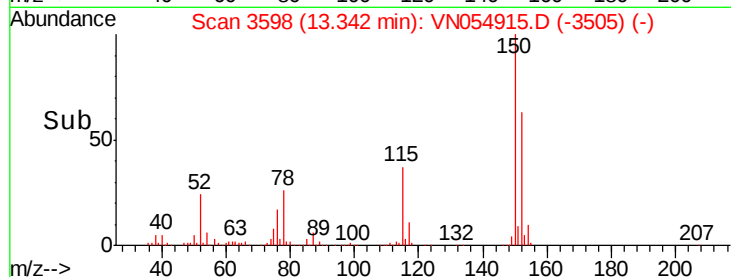
150 155.8 0.0 349.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 0.483 ug/l

RT: 12.07 min Scan# 3203

Delta R.T. 0.00 min

Lab File: VN054915.D

Acq: 3 Apr 2019 10:17

Tgt Ion: 43 Resp: 2689

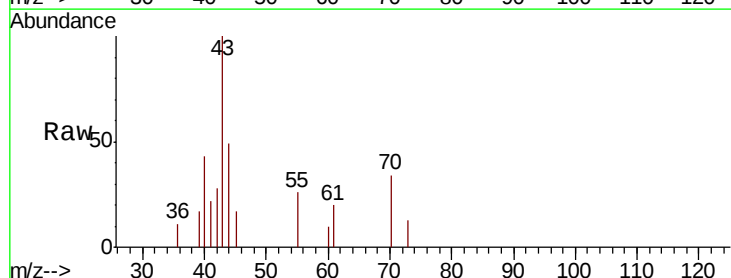
Ion Ratio Lower Upper

43 100

70 31.0 35.4 53.0#

55 19.3 19.8 29.6#

61 22.9 19.8 29.6

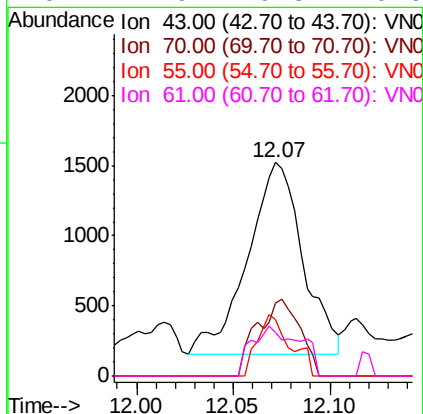
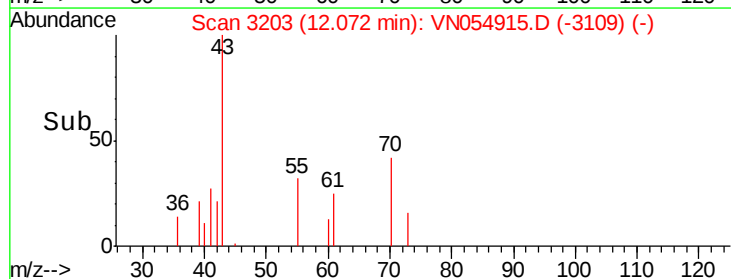


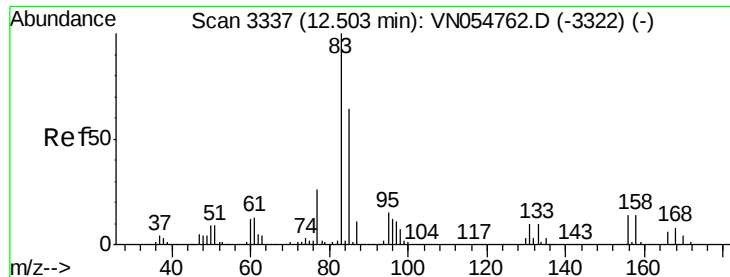
Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN054915.D

Acq: 3 Apr 2019 10:17

Instrument :

MSVOA_N

ClientSampled :

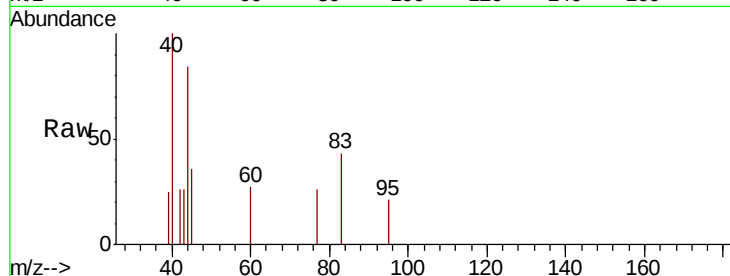
Tot Ion: 83 Resp: 512

Ion Ratio Lower Upper

83 100

131 0.0 5.8 17.4#

85 12.3 32.2 96.6#



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0

12.51

400

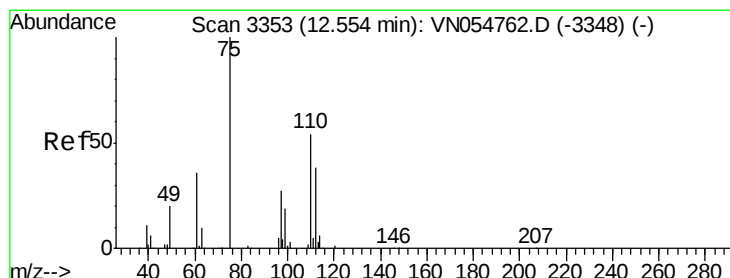
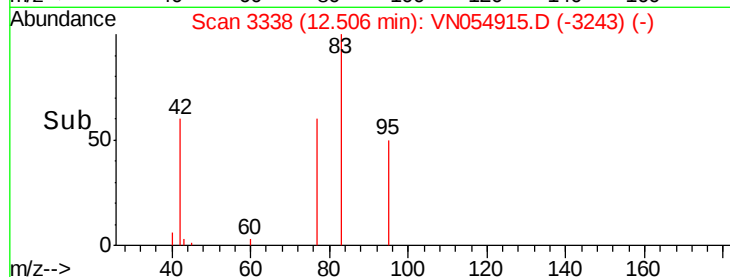
300

200

100

0

Time-->



#76

1,2,3-Trichloropropane

Concen: 38.431 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054915.D

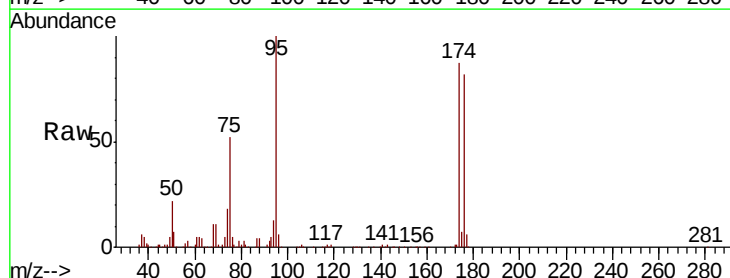
Acq: 3 Apr 2019 10:17

Tgt Ion: 75 Resp: 145876

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

100000

80000

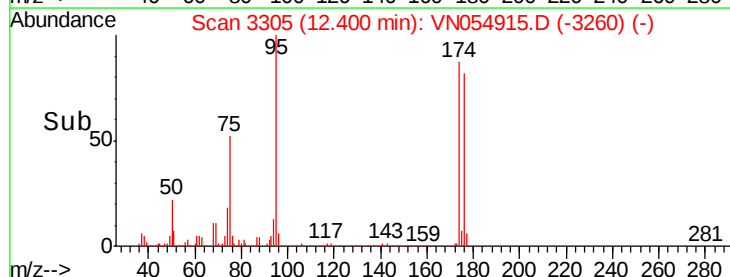
60000

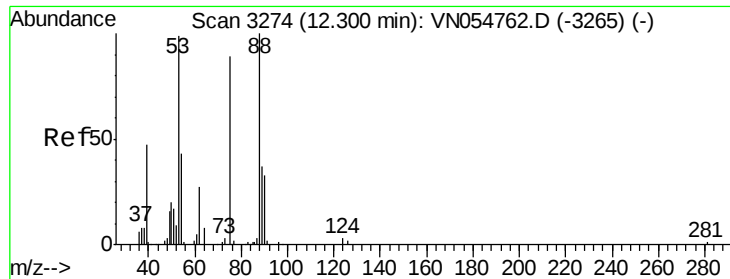
40000

20000

0

Time-->

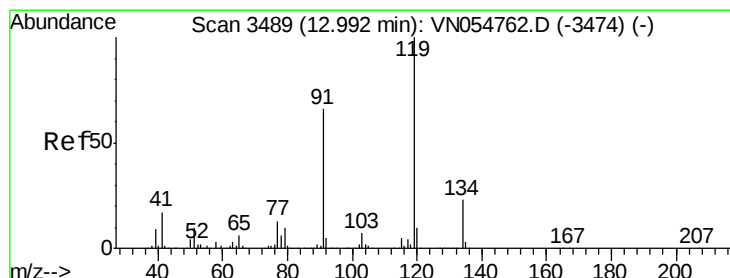
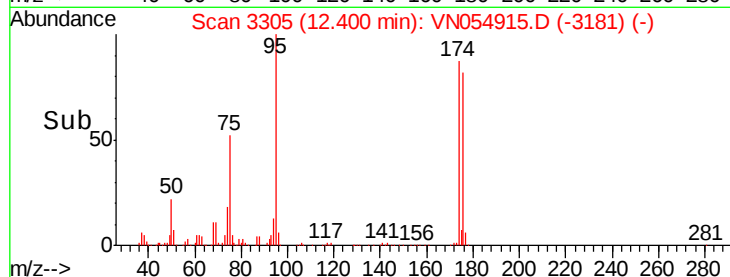
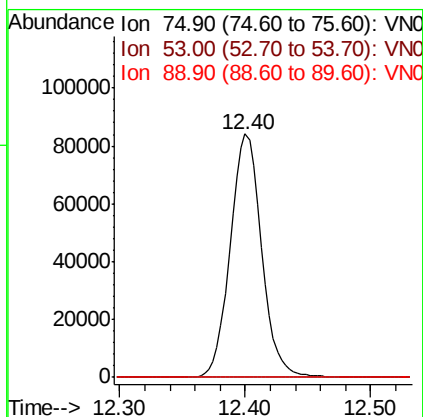
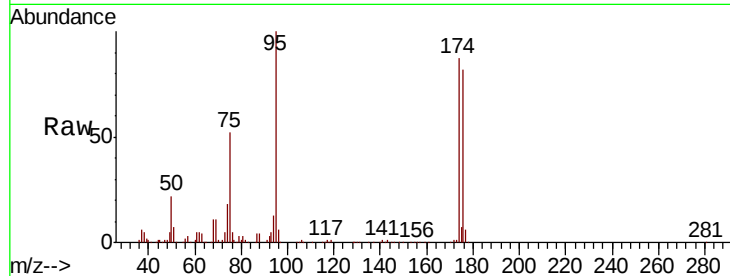




#81
 trans-1,4-Dichloro-2-butene
 Concen: 149.488 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN054915.D
 Acq: 3 Apr 2019 10:17

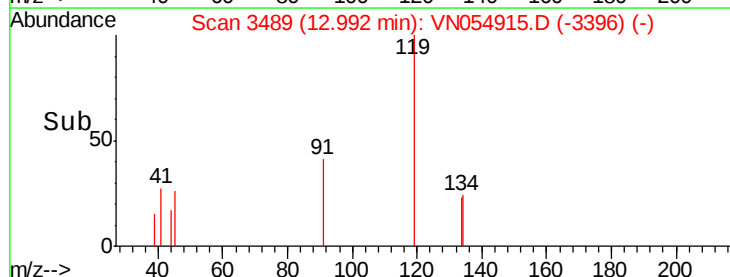
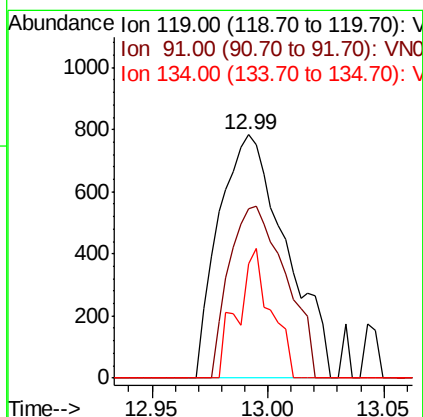
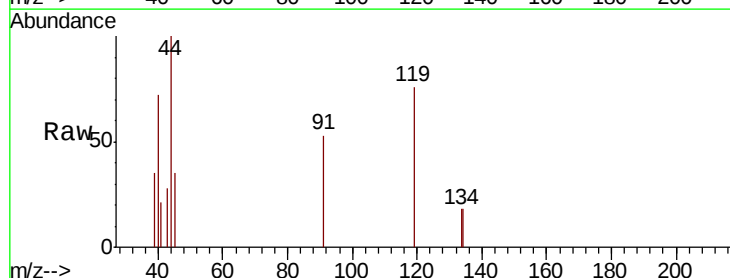
Instrument :
 MSVOA_N
 ClientSampled :

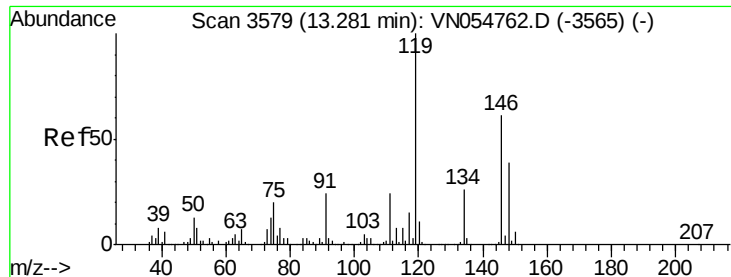
Tot Ion: 75 Resp: 145876
 Ion Ratio Lower Upper
 75 100
 53 0.0 76.2 114.2#
 89 0.0 39.2 58.8#



#83
 tert-Butylbenzene
 Concen: Below Cal
 RT: 12.99 min Scan# 3489
 Delta R.T. 0.00 min
 Lab File: VN054915.D
 Acq: 3 Apr 2019 10:17

Tgt Ion: 119 Resp: 1574
 Ion Ratio Lower Upper
 119 100
 91 59.6 30.9 92.8
 134 26.4 13.2 39.6





#87

1,3-Dichlorobenzene

Concen: 0.210 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. 0.00 min

Lab File: VN054915.D

Acq: 3 Apr 2019 10:17

Instrument :

MSVOA_N

ClientSampled :

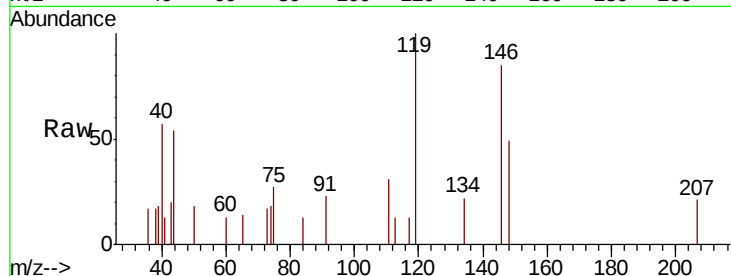
Tot Ion:146 Resp: 1519

Ion Ratio Lower Upper

146 100

111 30.5 18.8 56.3

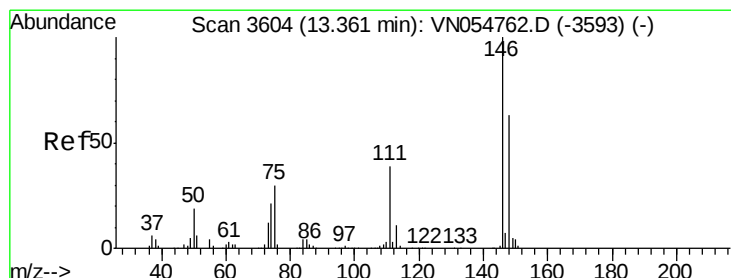
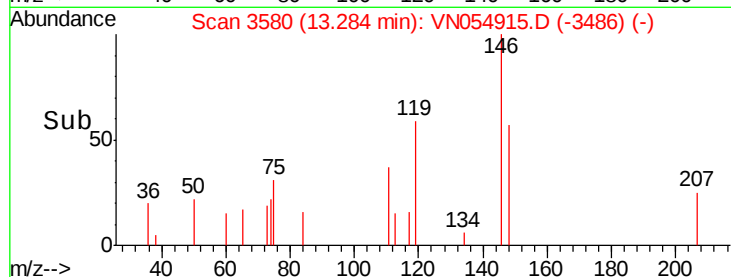
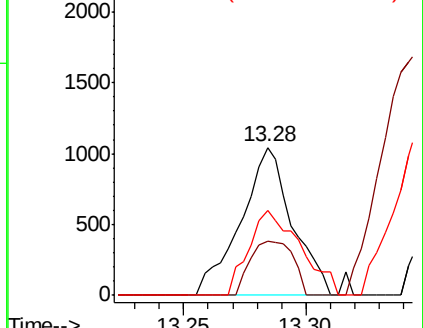
148 57.4 32.2 96.6



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#88

1,4-Dichlorobenzene

Concen: 0.215 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. -0.08 min

Lab File: VN054915.D

Acq: 3 Apr 2019 10:17

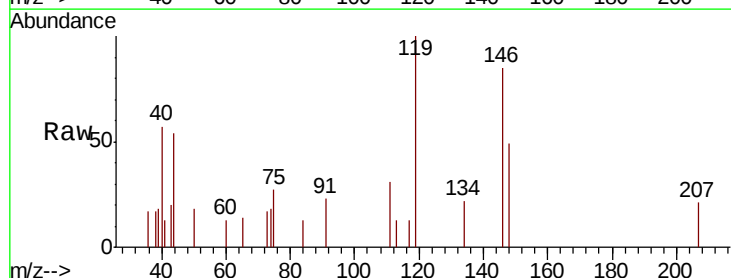
Tgt Ion:146 Resp: 1519

Ion Ratio Lower Upper

146 100

111 30.5 18.1 54.1

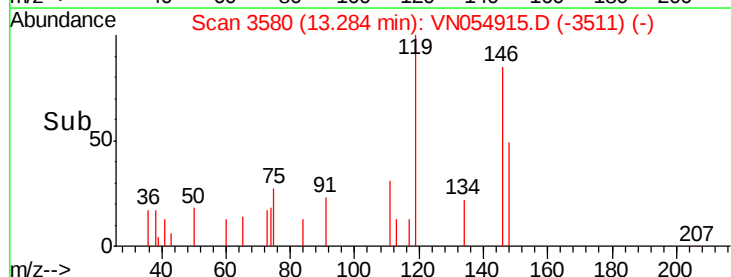
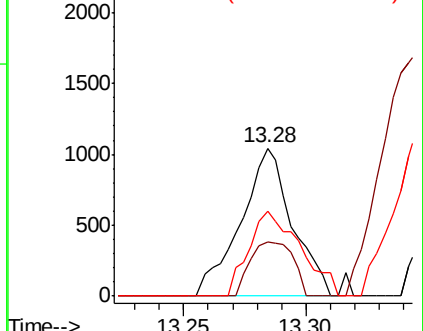
148 57.4 32.0 96.0

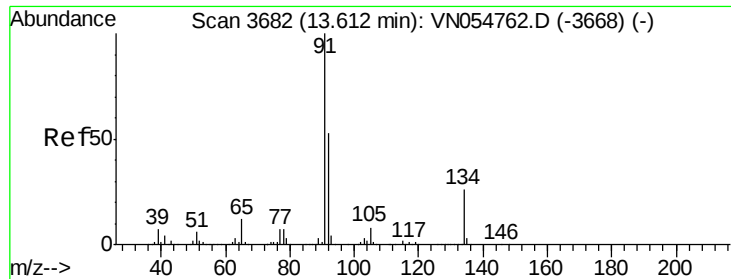


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

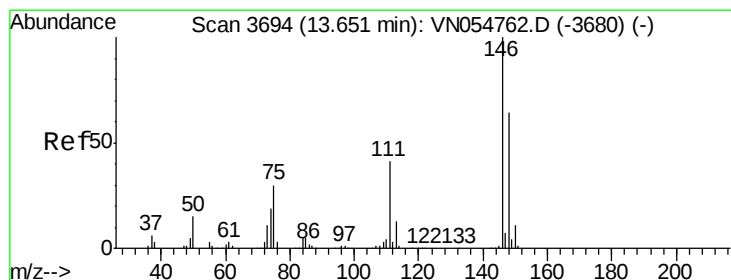
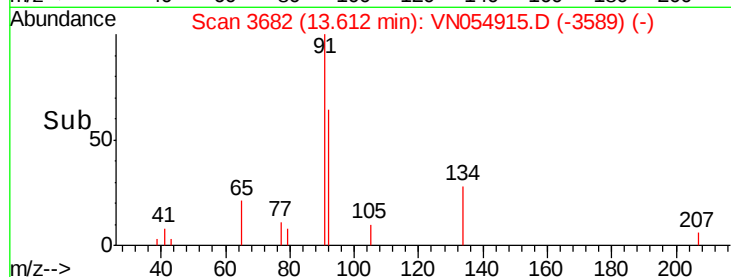
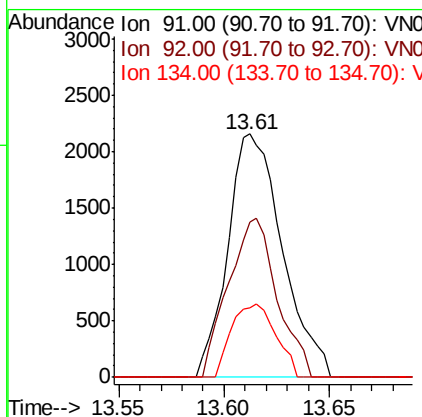
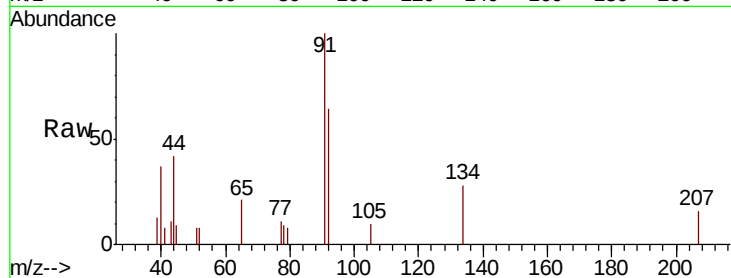




#89
n-Butylbenzene
Concen: 0.339 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. -0.00 min
Lab File: VN054915.D
Acq: 3 Apr 2019 10:17

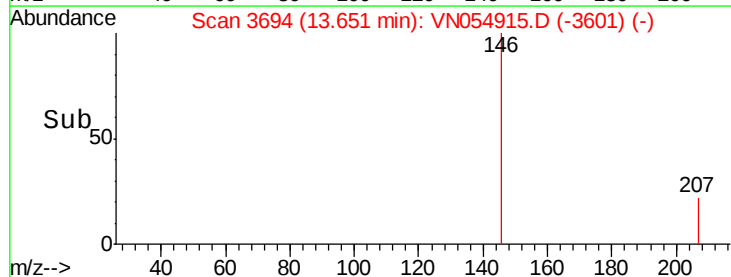
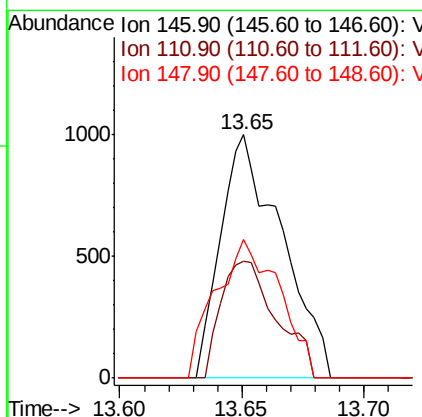
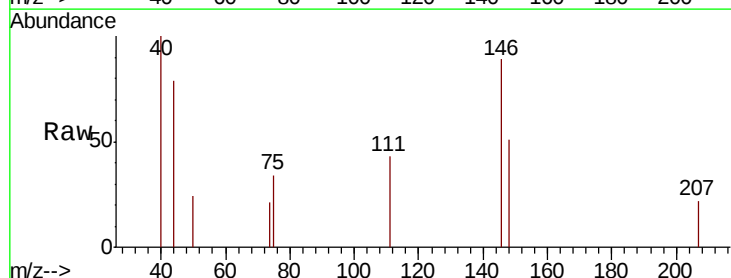
Instrument :
MSVOA_N
ClientSampleId :

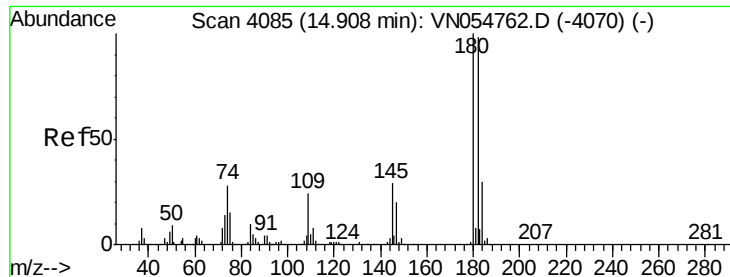
Tot Ion: 91 Resp: 3878
Ion Ratio Lower Upper
91 100
92 58.3 26.2 78.6
134 24.3 14.3 42.9



#91
1,2-Dichlorobenzene
Concen: 0.238 ug/l
RT: 13.65 min Scan# 3694
Delta R.T. -0.00 min
Lab File: VN054915.D
Acq: 3 Apr 2019 10:17

Tgt Ion: 146 Resp: 1736
Ion Ratio Lower Upper
146 100
111 44.0 19.1 57.3
148 59.4 32.4 97.0

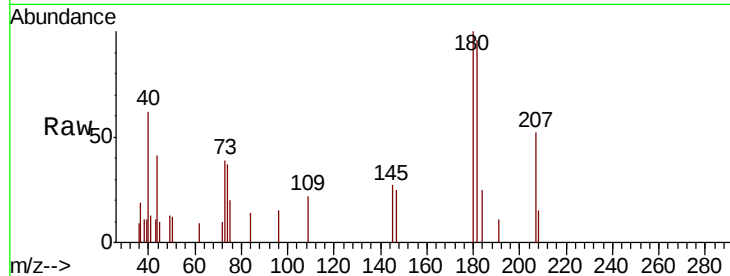




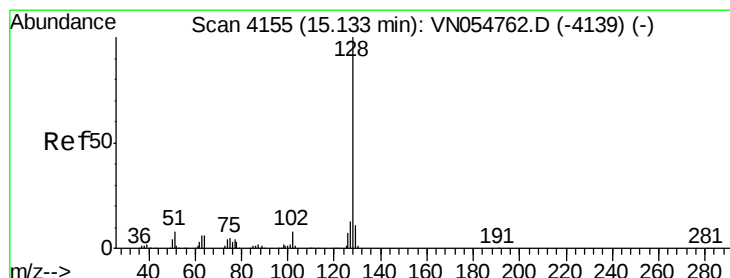
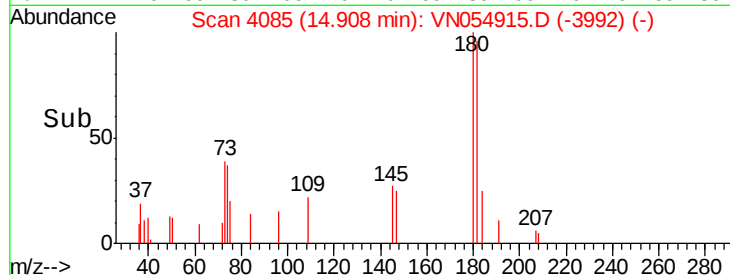
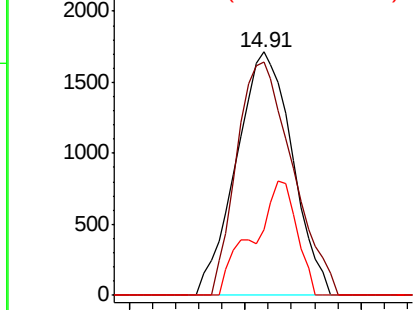
#93
 1,2,4-Trichlorobenzene
 Concen: 0.816 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.00 min
 Lab File: VN054915.D
 Acq: 3 Apr 2019 10:17

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.3	48.0	144.2
145	36.7	14.2	42.8

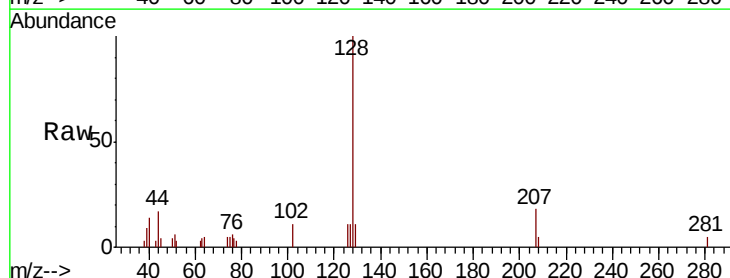


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

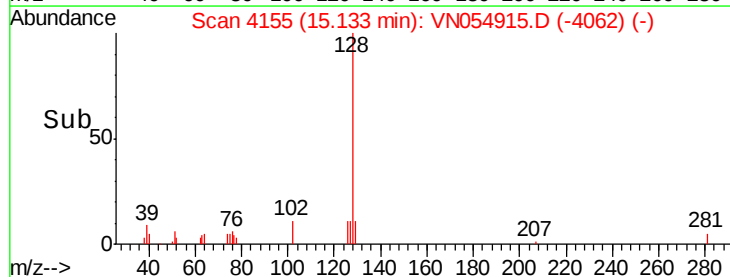
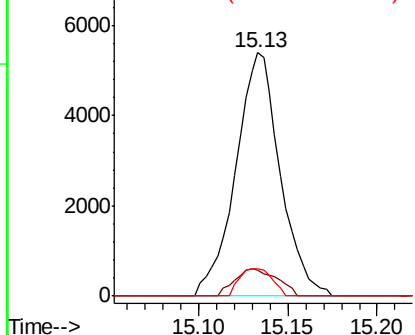


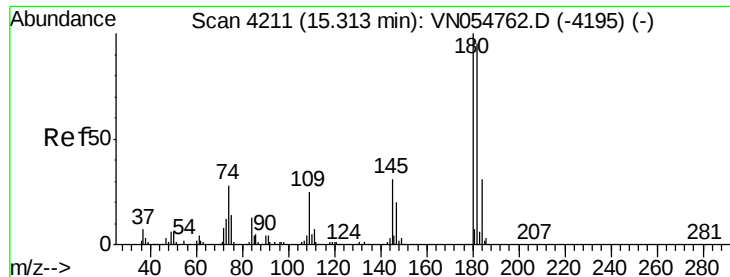
#95
 Naphthalene
 Concen: 1.191 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. -0.00 min
 Lab File: VN054915.D
 Acq: 3 Apr 2019 10:17

Tgt Ion	Ratio	Lower	Upper
128	100		
127	10.6	10.1	15.1
129	8.3	8.7	13.1#



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

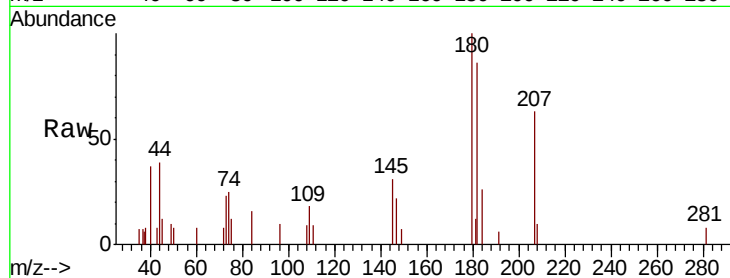




#96
 1,2,3-Trichlorobenzene
 Concen: 1.042 ug/l
 RT: 15.32 min Scan# 4212
 Delta R.T. 0.00 min
 Lab File: VN054915.D
 Acq: 3 Apr 2019 10:17

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.7	47.5	142.6
145	35.2	14.8	44.3



Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

